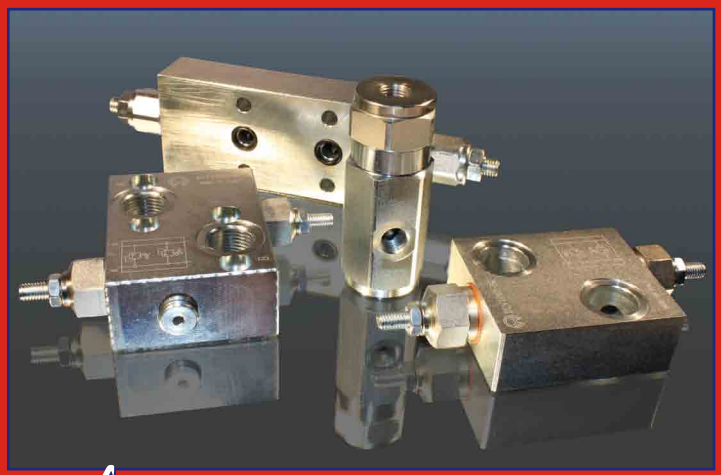
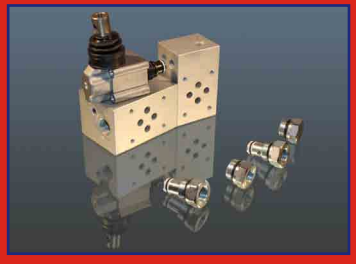
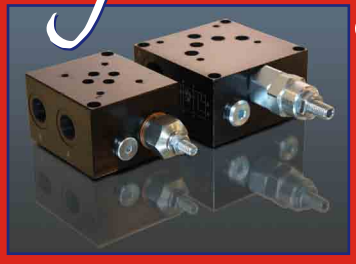
Oleoweb

HYDRAULIC VALVES AND COMPONENTS



The Italian Quality In Hydraulic





MANUALE USO E MANUTENZIONE VALVOLE OLEODINAMICHE

Questo manuale è indirizzato a personale specializzato e competente che non può in ogni caso sostituire la professionalità e la competenza dell'installatore. La Casa Produttrice declina ogni responsabilità per danni alle persone ed agli oggetti dovuti ad una cattiva od impropria installazione delle valvole. La *OLEOWEB SRL* è orientata ad una continua ricerca e sviluppo dei propri prodotti e pertanto si riserva il diritto si modificare in qualunque momento e senza alcun preavviso tutte le caratteristiche tecniche ritenute necessarie. Il presente manuale potrà subire variazioni ed integrazioni, ma non potrà in alcun caso ritenersi superato. Il presente manuale e la documentazione tecnica della *OLEOWEB SRL* hanno lo scopo di fornire ulteriori informazioni tecniche ad utilizzatori competenti del settore (collaboratori competenti).

PERSONA COMPETENTE

E' una persona che, per merito dell'addestramento tecnico e dell'esperienza, possiede una sufficiente conoscenza del settore. L'utilizzatore è responsabile della scelta del suo prodotto e dei suoi accessori. Risulta quindi importante che l'utilizzatore analizzi le problematiche della propria applicazione, esegundo analisi e prove adeguate. È inoltre il responsabile dell'applicazione, delle sicurezze e delle avvertenze richieste dalle direttive in vigore.

STAMPIGLIATURA

Le valvole *OLEOWEB* sono identificabili per mezzo della stampigliatura posta sulla valvola:
- Logo aziendale
- Schema idraulico
- Codice
- Mese e anno di fabbricazione (in estensione al codice)

MESE DI FABBRICAZIONE	ANNO DI FABBRICAZIONE									
	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
GENNAIO	0M	11M	12M	13M	14M	15M	16M	17M	18M	19M
FEBBRAIO	0N	11N	12N	13N	14N	15N	16N	17N	18N	19N
MARZO	0P	11P	12P	13P	14P	15P	16P	17P	18P	19P
APRILE	0Q	11Q	12Q	13Q	14Q	15Q	16Q	17Q	18Q	19Q
MAGGIO	0R	11R	12R	13R	14R	15R	16R	17R	18R	19R
GIUGNO	0S	11S	12S	13S	14S	15S	16S	17S	18S	19S
LUGLIO	0T	11T	12T	13T	14T	15T	16T	17T	18T	19T
AGOSTO	0U	11U	12U	13U	14U	15U	16U	17U	18U	19U
SETTEMBRE	0V	11V	12V	13V	14V	15V	16V	17V	18V	19V
OTTOBRE	0Z	11VZ	12Z	13Z	14Z	15Z	16Z	17Z	18Z	19Z
NOVEMBRE	0X	11X	12X	13X	14X	15X	16X	17X	18X	19X
DICEMBRE	0Y	11Y	12Y	13Y	14Y	15Y	16Y	17Y	18Y	19Y

USO PREVISTO DELLE VALVOLE

Le valvole *OLEOWEB* sono destinate a costruttori di macchine ed attrezzature a comando oleodinamico.
Data la vastità applicativa delle valvole oleodinamiche e non essendo sempre nota la destinazione finale del prodotto, questo manuale è stato realizzato limitatamente in funzione delle generiche applicazioni conosciute.

LIMITI DI IMPIEGO

La *OLEOWEB SRL* diffida ogni utilizzatore/clienti o costruttori nell'impiegare le valvole nelle seguenti applicazioni:
- ambienti dove esista il pericolo di esplosione o incendio;
- veicoli ed impianti aeronautici e spaziali;
- sistemi ed impianti sterzanti su veicoli e su mezzi adibiti al trasporto di persone, cose ed animali;
- sistemi frenanti, di blocco e di stallo in genere;
- attrezzature ed impianti di applicazione in campo militare, nucleare, medicale ed ospedaliero

TUTTAVIA LA DIREZIONE TECNICA DELLA OLEOWEB SRL SI RISERVA, DIETRO RICHIESTA DELL'UTILIZZATORE, DI VALUTARE CASO PER CASO LE APPLICAZIONI SOPRA CITATE E DI DARNE QUALORA LO RITENGA OPPORTUNO L'AUTORIZZAZIONE.

SPECIFICHE MECCANICHE

- Non manomettere alcun tipo di valvola, un semplice allentamento di una valvola potrebbe provocare la caduta libera di carichi o il cedimento di strutture.
- Tutte le operazioni d'installazione, montaggio, manutenzione e smontaggio delle valvole e dei componenti ad essa applicati devono essere eseguiti nel massimo rispetto delle norme di sicurezza. Durante queste operazioni, all'interno del circuito oleodinamico non deve mai essere presente pressione (pressione zero) e non deve esistere nessun tipo di carico sulla strutture dell'attrezzatura o della macchina a cui la valvola è applicata (carico zero).

SPECIFICHE ELETTRICHE

- Tutti i collegamenti e scollegamenti elettrici devono essere eseguiti da personale specializzato e competente.
- Prima di procedere a qualsiasi tipo di operazione o di intervento sulla valvola, devono essere scollegate dalla linea elettrica di alimentazione.

SPECIFICHE DI SICUREZZA

- Usare protezioni antinfortunistiche;
- Lavorare in condizioni di massima pulizia;
- Lavorare in condizioni di massima sicurezza;
- Usare strumenti, attrezzi e banchi di servizio adatti e puliti;
- Durante le operazioni di avviamento, normale lavoro, manutenzione, regolazione, sfiato dell'impianto, intervento e azionamento di valvole e vari elementi di controllo POSSONO VERIFICARSI DEGLI SCHIZZI

IMPROVVISI E DELLE FUORIUSCITE DI FLUIDO IDRAULICO, IL QUALE PUÒ RAGGIUNGERE TEMPERATURE TALI DA CAUSARE USTIONI ALLA PELLE. Il fluido idraulico può essere pericoloso per la salute in quanto il contatto con la pelle e gli occhi può causare gravi danni. Attenersi scrupolosamente alle disposizioni di protezione e sicurezza imposte dal produttore del fluido idraulico riportate sulla scheda tecnica e tossicologica del prodotto. Il fluido idraulico può essere un prodotto inquinante. È perciò buona norma evitare perdite di fluido idraulico con prodotti oleoassorbenti. Rapide variazioni di temperatura possono pregiudicare sia le caratteristiche che la durata del prodotto, pertanto è indispensabile proteggerlo da queste situazioni.

MONTAGGIO

Un montaggio ed una corretta installazione sono fattori essenziali per il buon funzionamento nel tempo di un impianto oleodinamico. La polvere e la sporcizia sono i peggiori nemici dell'oleodinamica. Durante l'installazione preoccuparsi quindi della massima pulizia effettuando le principali operazioni di collegamento in un locale pulito e non polveroso. Le valvole devono essere montate in modo tale da permettere una facile accessibilità ai comandi, alle ispezioni, alla manutenzione ed alla riparazione, inoltre è altrettanto indispensabile che esse vengano montate in una zona protetta da urti accidentali e riparata da casuali contatti fisici, poichè la temperatura raggiunta durante il funzionamento può essere causa di ustioni.

MOVIMENTAZIONE

Le valvole oleodinamiche sono dei prodotti da maneggiare con cura ed attenzione. Per loro caratteristica presentano protuberanze soggette a rottura.

STOCCAGGIO

Le valvole oleodinamiche devono essere stoccate in un luogo protetto, possibilmente chiuso, al riparo da polvere, sporcizia, umidità ed intemperie, ad una temperatura non inferiore a -15° C e non superiore a +50° C. Inoltre, la protezione deve evitare la perdita di fluido idraulico rimasto nella valvola dopo il collaudo e non consentire l'accesso di corpi estranei, i quali si potrebbero dimostrare molto pericolosi per il buon funzionamento e per la durata della valvola.

SMALTIMENTO VALVOLE

Le valvole oleodinamiche sono costruite principalmente in lega di alluminio, in lega di acciaio e in materiale plastico; possono essere smaltite come normali materiali inviati al riciclaggio con l'unica avvertenza di effettuare lo svuotamento dal fluido idraulico in tutte le sue parti.

SMALTIMENTO FLUIDO IDRAULICO

I fluidi idraulici sono soggetti a speciali prescrizioni di smaltimento: rispettare le indicazioni e le istruzioni dei produttori e attenersi alle disposizioni legislative vigenti nel Paese di utilizzazione.

NON DISPERDERE NELL'AMBIENTE IL FLUIDO SOSTITUITO

MANUTENZIONE

Un impianto oleoidraulico ben installato e curato nella fase di montaggio e messa in esercizio assicura una lunga durata senza inconvenienti e non necessita di particolari cure manutentive. Il principio di base è la necessità di controllare spesso la qualità e lo stato del fluido che trasmette potenza e assicurarsi dell'assenza di impurità nel circuito cui è rapportata l'affidabilità di qualsiasi macchina oleoidraulica. Infatti, fra le cause principali di fuori servizio o di guasto, si può segnalare il bloccaggio di apparecchiature a seguito di grippaggi o di rotture dovuti ad usura e ad invecchiamento del fluido che trasmette potenza, con conseguente perdita delle sue proprietà chimico-fisiche. È ormai accertato che la causa principale di tutti questi inconvenienti è dovuta alla presenza di particolari e microparticelle che circolano continuamente nel fluido e che costituiscono motivo di usura. Queste microparticelle, se lasciate circolare nel sistema, agiscono come una miscela abrasiva scalfendo le superfici con cui vengono a contatto e trascinando in ciclo ulteriore contaminante; i danni sono, ovviamente, tanto più gravi quanto più sono sofisticate le apparecchiature installate. Dalla messa in marcia dell'impianto, la manutenzione è fatta fondamentalmente di piccole operazioni che per essere veramente efficaci devono essere compiute con regolarità. È pertanto estremamente importante che tali operazioni di controllo e di verifica siano programmate e riportate su schede di macchine o di impianto.

PULIZIA ESTERNA

Permette una facile localizzazione di eventuali perdite e dunque l'immediato intervento.

CONTROLLO CONTINUO DELLA TEMPERATURA DELL'OLIO

L'alterazione del fluido a causa della temperatura è un motivo di inquinamento e di degradazione dell'impianto. La formazione dei prodotti di degradazione degli idrocarburi è particolarmente favorita dal calore: la velocità di ossidazione si può ritenere circa costante fino a 60°C, raddoppiando a partire da questo punto ad ogni incremento di 10°C. La presenza di morchie e di sedimenti nel fluido, causa di un aspetto torbido, segnala lo stato di degradazione dello stesso.

CAMBIO FLUIDO

Assicurare nel tempo le migliori condizioni di lavoro, con frequente controllo del fluido e sua periodica sostituzione. Mediamente dopo le prime 100 ore di lavoro, poi ogni 2000 ore o comunque una volta all'anno. Ad ogni cambio sostituire i filtri ed eseguire la pulizia del serbatoio. Prima di eseguire il cambio del fluido idraulico svuotare completamente l'impianto dallo stesso.

GARANZIA

CONDIZIONI GENERALI DI GARANZIA

I prodotti di nostra fabbricazione sono garantiti da eventuali avarie imputabili a difetti di fabbricazione o a materiali impiegati. La durata della garanzia sarà di 12 mesi dalla spedizione dal nostro stabilimento. Eventuali interventi di revisione in garanzia, dovranno essere effettuati dai servizi di Assistenza Tecnica da noi autorizzati, oppure presso il nostro stabilimento dove i prodotti dovranno essere inviati in porto franco con un imballo adeguato. Sarà considerata decaduta la garanzia in caso di incauto utilizzo, di manomissione, di modifica e/o di riparazione eseguita da personale non da noi autorizzato.

ASSISTENZA TECNICA FUORI GARANZIA

La *OLEOWEB SRL* è a disposizione per le riparazioni dei prodotti anche decorso il termine di garanzia.
La *OLEOWEB SRL* effettuerà la riparazione anche trascorsi diversi anni d'impiego (sempre che sia economicamente conveniente).
Il costo della riparazione dei nostri prodotti non più in garanzia viene normalmente calcolato a consuntivo. L'eventuale richiesta di un preventivo dovrà essere fatta espressamente al momento della consegna del prodotto da riparare. Nel caso che il preventivo non venga accettato, saranno comunque addebitate le spese da noi sostenute per la formulazione dello stesso.

Ogni prodotto reso per la revisione deve essere accompagnato da:
1. Regolare bolla completa di dati, come da disposizione di legge.
2. Lettera di indicazione del difetto riscontrato e dati di riferimento di un Tecnico Responsabile per eventuali chiarimenti.

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HYDRAULIC VALVES AND COMPONENTS

Indice - *Index*

OLIO
OIL

Utilizzare esclusivamente olio idraulico a base minerale ISO 6743/4 (DIN 51524)
Use only ISO 6743/4 (DIN 51524) hydraulic mineral oil

VISCOSITA'
VISCOSITY

Viscosità secondo i parametri ISO 3448 (DIN51519). Il grado di viscosità viene indicato con le lettere ISO VG seguito da un numero che indica la viscosità cinematica media a 40° C in mm^2/s o centistokes (cSt)

Viscosità min. 15 mm^2/s	Viscosità max. 100 mm^2/s	Viscosità consigliata 46 mm^2/s

The viscosity must be according to ISO 3448 (DIN51519) standards. The viscosity degree is stated by ISO VG letters followed by a number showing the average kinematic viscosity at 40° C in mm^2/s or centistokes (cSt)

Minimum viscosity 15 mm^2/s	Maximum viscosity 100 mm^2/s	Advised viscosity 46 mm^2/s

Gradi di viscosità ISO *ISO viscosity degrees*	Viscosità cinematica media *Average kinematic viscosity* *mm^2/s at 40° C*	Limiti viscosità cinematica *Kinematic viscosity limits* *mm^2/s at 40° C*	
		min.	max
ISO VG 15	15	13,5	16,5
ISO VG 22	22	19,8	24,2
ISO VG 32	32	28,8	35,2
ISO VG 46	46	41,4	50,6
ISO VG 68	68	61,2	74,8
ISO VG 100	100	90,0	110

FILTRAZIONE CONTAMINAZIONE
FILTRATION CONTAMINATION

Tutti i costrutturi di prodotti oleodinamici riconoscono che la eccessiva contaminazione del fluido è la principale causa del malfunzionamento negli impianti oleodinamici.
Filtrazione consigliata 15 micron - Classe di contaminazione 18/14 ISO 4406 (9 NAS 1638)

All manifacturers of hydraulic products recognize that excessive fluid contamination is the main cause of hydraulic installations bad working.
Advise filtration 15 microns - Contamination class 18/14 ISO 4406 (9 NAS 1638)

TEMPERATURA
TEMPERATURE

Temperatura ambiente	- 20°C	+ 50°C	*Ambient temperature*	*- 20°C*	*+ 50°C*
Temperatura olio	- 20°C	+ 80°C	*Oil temperature*	*- 20°C*	*+ 80°C*

CONDIZIONI DI PROVA
TESTING CONDITIONS

Tutte le curve di funzionamento riportate a catalogo sono state eseguite utilizzando olio minerale con grado di viscosità ISO VG46 alla temperatura di 40°C ed un grado di filtrazione assoluta di 15 micron.

All technical curves show in the present catalogue have been made using mineral oil with ISO VG46 viscosity degree at the temperature of 40°C and degree of absolute filtering of 15 micron.

I dati presenti nel catalogo possono essere soggetti a variazioni, pertanto OLEOWEB si riserva il diritto di apporre modifiche in qualunque momento e senza alcun preavviso.

OLEOWEB reserves the right to modify the products at any time and without notice: the technical data of the catalogue can consequently change.

Piccole valvole

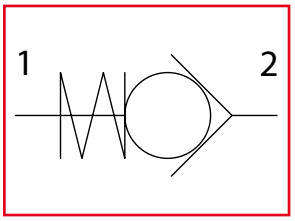
Small valves

Oleoweb

HYDRAULIC VALVES AND COMPONENTS

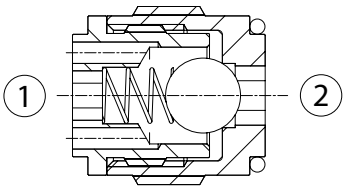
VUI

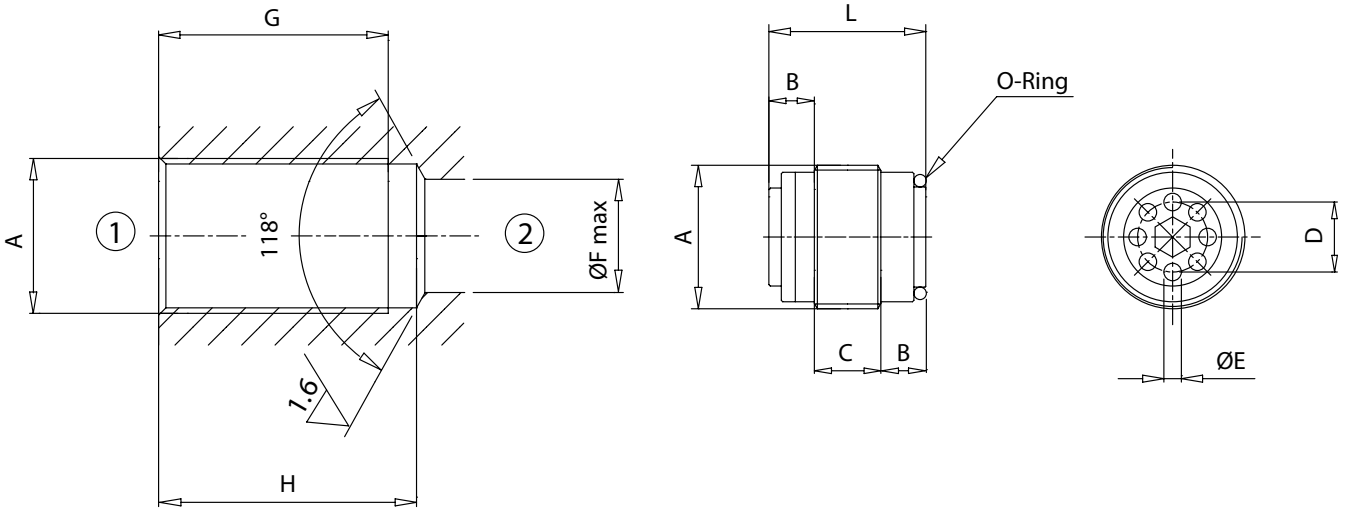
Valvole unidirezionali a sfera
Ball check valves



Dati tecnici
Technical data

Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*
Classe di contaminazione *Filtration*	ISO code 16/13 *SAE class 4 or better*
Temperatura fluido *Fluid temperature*	-20°C +80°C *-4°F + 176°F*
Temperatura ambiente *Ambient temperature*	-20°C +50°C *-4°F +122°F*





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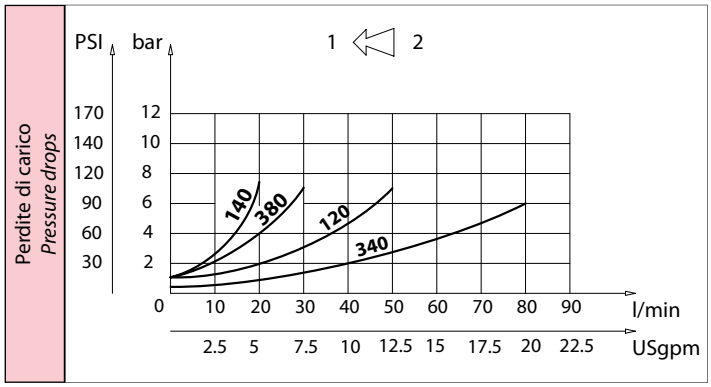
(Inches)



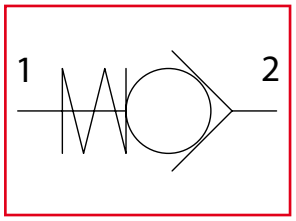
Codice ordinazione *Ordering code*	
VUI-X	
X	Dimensione / *Size*
140	**BSPP 1/4**
380	**BSPP 3/8**
120	**BSPP 1/2**
340	**BSPP 3/4**

Caratteristiche tecniche
Technical performances

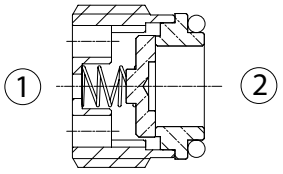
Codice *Code*	A	Portata Max *Max flow* l/min-*USgpm*	Pressione Max *Max pressure* bar/*PSI*	B	C	D	E	F	G	H	L	Coppia di serraggio *Tightening torque* Nm / *lbt ft*	O-Ring	Peso approssimativo *Approx weight* Kg / *lb*
VUI 140	**BSPP 1/4**	**20** *(5)*	**350** *(5000)*	**55** *(0.28)*	**6** *(0.24)*	**6** *(0.24)*	**1,3** *(0.05)*	**7** *(0.28)*	**28** *(1.10)*	**31** *(1.22)*	**17** *(0.67)*	**6** *(53)*	**9 x 1**	**0,012** *(0.026)*
VUI 380	**BSPP 3/8**	**30** *(8)*			**7,5** *(0.30)*	**7,5** *(0.30)*	**2** *(0.08)*	**9** *(0.35)*	**31** *(1.22)*	**34** *(1.34)*	**18,5** *(0.73)*		**10,8 x 1,78**	**0,020** *(0.044)*
VUI 120	**BSPP 1/2**	**50** *(13)*		**7** *(0.22)*	**8,5** *(0.34)*	**10** *(0.39)*	**2,5** *(0.10)*	**12** *(0.47)*	**35** *(1.38)*	**38** *(1.50)*	**22,5** *(0.88)*	**10** *(88)*	**14 x 1,78**	**0,036** *(0.080)*
VUI 340	**BSPP 3/4**	**80** *(21)*		**7,5** *(0.30)*	**13,5** *(0.53)*	**14** *(0.55)*	**3,25** *(0.13)*	**16** *(0.63)*	**41** *(1.61)*	**45** *(1.77)*	**28,5** *(1.12)*	**20** *(177)*	**18,7 x 2,62**	**0,073** *(0.16)*

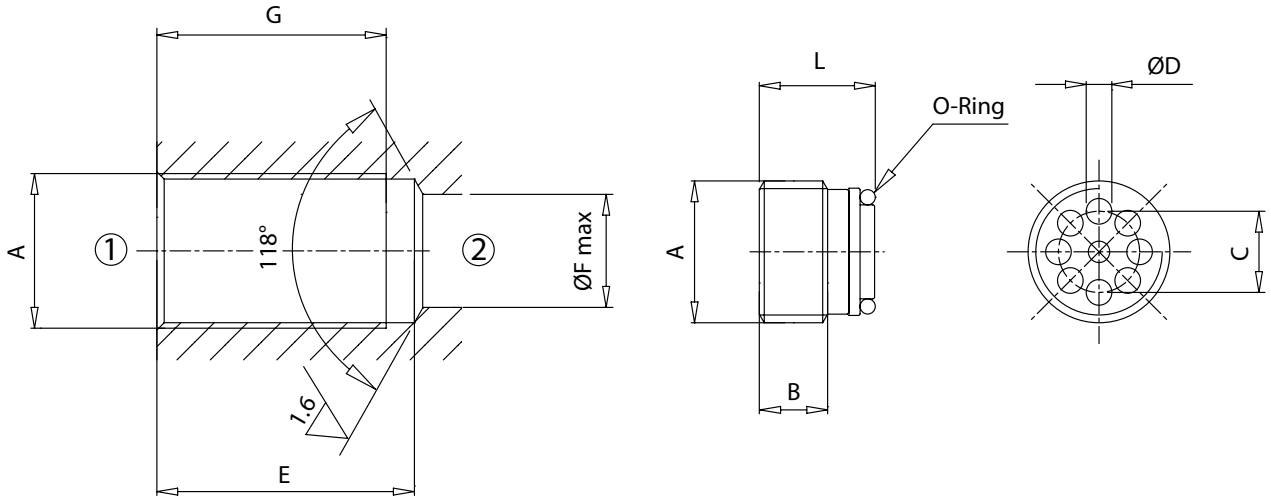
VUP

Valvole unidirezionali a disco
Disk check valves



Dati tecnici *Technical data*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*
Classe di contaminazione *Filtration*	ISO code 16/13 *SAE class 4 or better*
Temperatura fluido *Fluid temperature*	-20°C +80°C *-4°F + 176°F*
Temperatura ambiente *Ambient temperature*	-20°C +50°C *-4°F +122°F*





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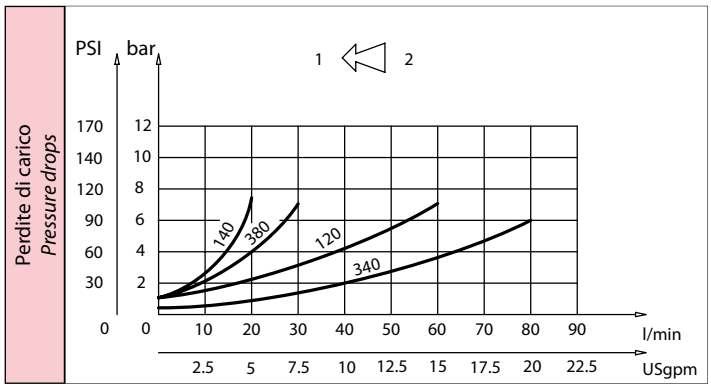
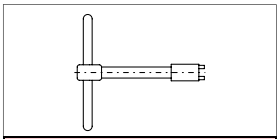
(Inches)





Chiave / *Tool*		
Dimensioni / *Dimensions*		
Codice *Code*	Valvola *Valve*	Peso *Weight* Kg / *lb*
61700005	**VUP 140**	**0,12** *(0.27)*
61700006	**VUP 380**	**0,13** *(0.29)*
61700003	**VUP 120**	**0,15** *(0.33)*

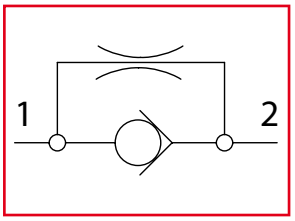
Codice ordinazione *Ordering code*	
VUP-X	
X	Dimensione / *Size*
140	**BSPP 1/4**
380	**BSPP 3/8**
120	**BSPP 1/2**
340	**BSPP 3/4**

Caratteristiche tecniche
Technical performances

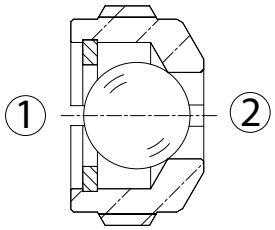
Codice *Code*	A	Portata Max *Max flow* l/min-*USgpm*	Pressione Max *Max pressure* bar/*PSI*	B	C	D	E	F	G	Coppia di serraggio *Tightening torque* Nm / *lbt ft*	O-Ring	Peso approssimativo *Approx weight* Kg / *lb*
VUP 140	**BSPP 1/4**	**20** *(5)*	**500** *(7250)*	**6** *(0.24)*	**7** *(0.27)*	**62** *(0.08)*	**24** *(0.95)*	**7** *(0.28)*	**22** *(0.87)*	**6** *(53)*	**9 x 1**	**0,010** *(0.022)*
VUP 380	**BSPP 3/8**	**35** *(9)*		**8** *(0.31)*	**9,5** *(0.37)*	**3** *(0.12)*	**29** *(1.14)*	**9** *(0.35)*	**27** *(1.06)*	**6** *(53)*	**10,8 x 1,78**	**0,015** *(0.033)*
VUP 120	**BSPP 1/2**	**60** *(16)*	**350** *(5000)*	**10** *(0.39)*	**12** *(0.47)*	**4** *(0.16)*	**32** *(1.26)*	**12** *(0.47)*	**29** *(1.14)*	**10** *(88)*	**14 x 1,78**	**0,019** *(0.042)*
VUP 340	**BSPP 3/4**	**80** *(21)*		**10,5** *(0.41)*	**16** *(0.63)*	**4,75** *(0.19)*	**37** *(1.46)*	**16** *(0.63)*	**33** *(1.30)*	**20** *(177)*	**18,7 x 2,62**	**0,042** *(0.093)*

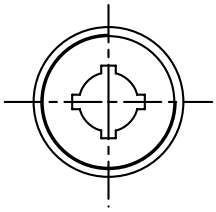
VS

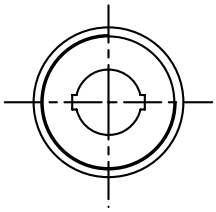
Valvole unidirezionali con trafilamento
Check valves with gap

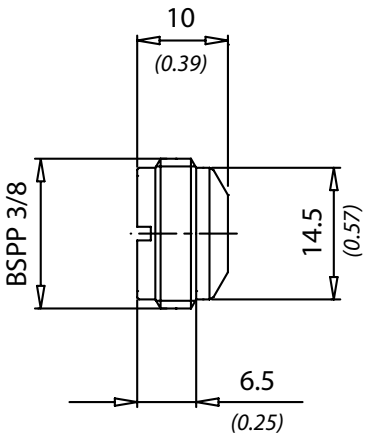


Dati tecnici *Technical data*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*
Classe di contaminazione *Filtration*	ISO code 16/13 *SAE class 4 or better*
Temperatura fluido *Fluid temperature*	-20°C +80°C *-4°F + 176°F*
Temperatura ambiente *Ambient temperature*	-20°C +50°C *-4°F +122°F*

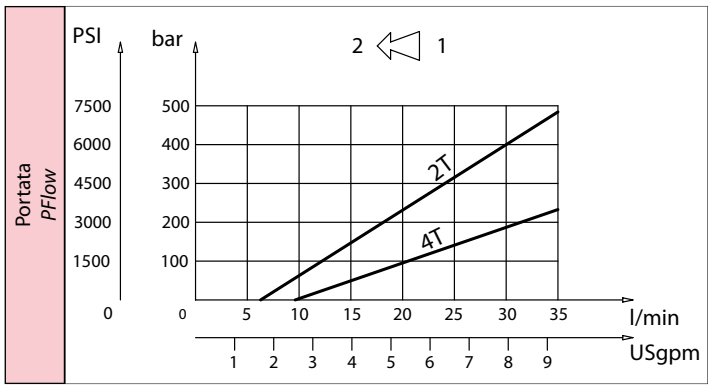








mm
(Inches)

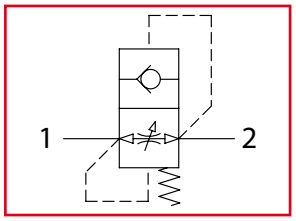


Caratteristiche tecniche *Technical performances*				
Codice *Code*	**Portata Max** ***Max flow*** **l/min - *USgpm***	**Pressione Max** ***Max pressure*** **bar/*PSI***	Coppia di serraggio *Tightening torque* Nm / *lbt ft*	Peso approssimativo *Approx weight* Kg / *lb*
VS	**35** *(9)*	**500** *(7000)*	**6** *(4.5)*	**0,08** *(0.06)*

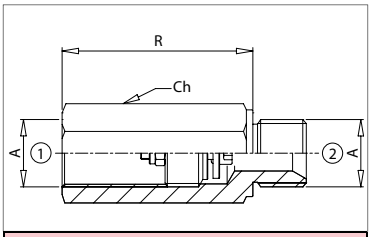
Codice ordinazione *Ordering code*			
VS-X-Y			
X	Dimensione / *Size*	**Y**	Tagli / *Gaps*
380	**BSPP 3/8**	**2T**	**2 Tagli** *2 Gaps*
		4T	**4 Tagli** *4 Gaps*

VUBA

Valvole Unidirezionali Registrabili
Adjustable check valves



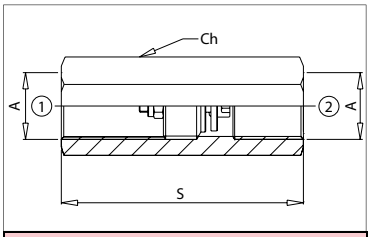
Dati tecnici *Technical data*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*
Classe di contaminazione *Filtration*	ISO code 16/13 *SAE class 4 or better*
Temperatura fluido *Fluid temperature*	-20°C +80°C *-4°F + 176°F*
Temperatura ambiente *Ambient temperature*	-20°C +50°C *-4°F +122°F*



Colonnette / *Housings* M/F

Dimensioni / *Dimensions*

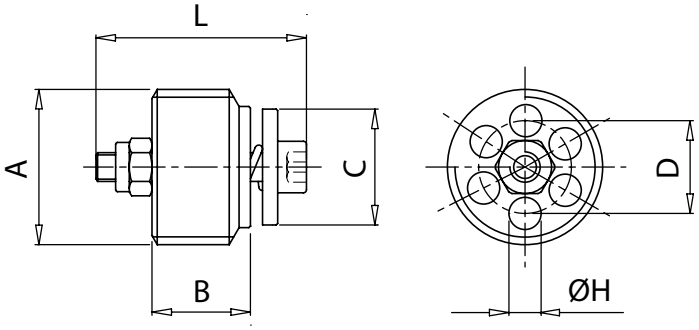
Codice *Code*	A	R	Peso *Weight* Kg / *lb*
61100087	**BSPP 1/4**	**39** *(1.53)*	**0,07** *(0.16)*
61100088	**BSPP 3/8**	**45** *(1.77)*	**0,09** *(0.20)*
61100089	**BSPP 1/2**	**52** *(2.05)*	**0,15** *(0.33)*
61100090	**BSPP 3/4**	**61** *(2.40)*	**0,23** *(0.50)*

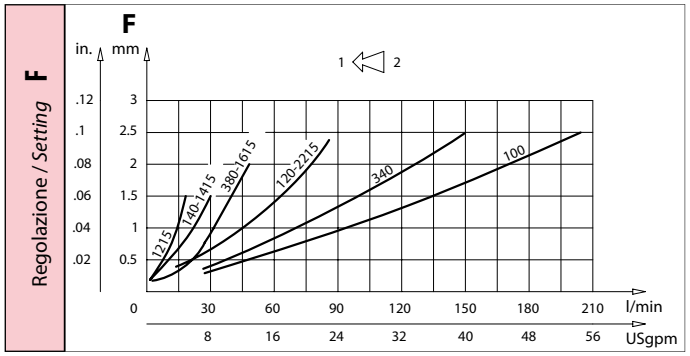


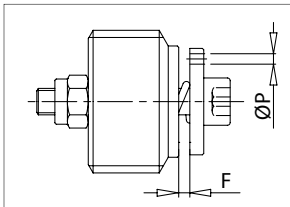
Colonnette / *Housings* F/F

Dimensioni / *Dimensions*

Codice *Code*	A	R	Peso *Weight* Kg / *lb*
61100092	**BSPP 1/4**	**48** *(1.89)*	**0,07** *(0.16)*
61100093	**BSPP 3/8**	**54** *(2.13)*	**0,09** *(0.20)*
61100094	**BSPP 1/2**	**73** *(2.87)*	**0,14** *(0.30)*
61100095	**BSPP 3/4**	**74** *(2.91)*	**0,22** *(0.48)*

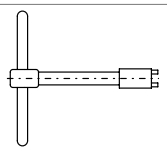






Regolazione F
a richiesta
F setting on request
Foro su piattello
a richiesta
Hole on flat poppet on request

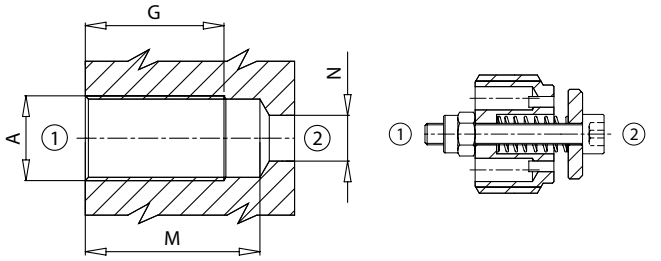
mm
(Inches)



Chiave / *Tool*

Dimensioni / *Dimensions*

Codice *Code*	A	Peso *Weight* Kg / *lb*
61700001	**VUBA 140**	**0,12** *(0.27)*
61700002	**VUBA 380**	**0,13** *(0.29)*
61700003	**VUBA 120**	**0,15** *(0.33)*
61700004	**VUBA 340**	**0,18** *(0.40)*



Codice ordinazione
Ordering code

VUBA - X - Y - K

X	Dimensione / *Size*
140	**BSPP 1/4**
380	**BSPP 3/8**
120	**BSPP 1/2**
340	**BSPP 3/4**
100	**BSPP 1**
1215	**M12x1.5**
1415	**M14x1.5**
1615	**M16x1.5**
2215	**M22x1.5**

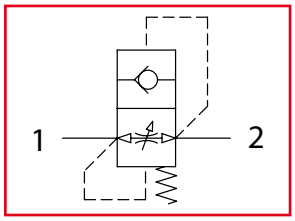
Y	Regolazione / *Setting*
F_,_	**Esempio: regolazione 0,7 mm** *Example: setting 0.7 mm* **F 0,7**
	Omettere se non richiesto *Omit if not required*
K	Foro sul piattello *Hole on flat poppet*
P_,_	**Esempio: foro 1,5 mm** *Example: hole 1,5 mm* **P 1,5**
	Omettere se non richiesto *Omit if not required*

Caratteristiche tecniche
Technical performances

Codice *Code*	A	Portata Max *Max flow* l/min - *USgpm*	Pressione Max *Max pressure* bar/*PSI*	B	C	D	G	H	L	M	N	Coppia di serraggio *Tightening torque* Nm / *lbt ft*	Peso approssimativo *Approx weight* Kg / *lb*
VUBA 140	**BSPP 1/4**	**25** *(6.5)*	**350** *(5000)*	**8,2** *(0.32)*	**10,4** *(0.41)*	**8** *(0.31)*	**25** *(0.98)*	**2,5** *(0.10)*	**19** *(0.75)*	**35** *(1.38)*	**7** *(0.28)*	**2** *(1.5)*	**0,007** *(0.016)*
VUBA 380	**BSPP 3/8**	**50** *(13)*		**11** *(0.43)*	**12,7** *(0.50)*	**10** *(0.39)*	**30** *(1.18)*	**3,25** *(0.13)*	**23** *(0.90)*	**41** *(1.61)*	**9,5** *(0.37)*	**3** *(2.5)*	**0,013** *(0.029)*
VUBA 120	**BSPP 1/2**	**80** *(21)*		**13** *(0.51)*	**15** *(0.59)*	**11,5** *(0.45)*	**33** *(1.30)*	**4** *(0.16)*	**29** *(1.14)*	**46** *(1.81)*	**12** *(0.47)*	**4** *(3)*	**0,024** *(0.053)*
VUBA 340	**BSPP 3/4**	**150** *(40)*		**18** *(0.71)*	**18** *(0.71)*	**14,5** *(0.57)*	**42** *(1.65)*	**5,2** *(0.20)*	**34** *(1.34)*	**55** *(2.17)*	**16** *(0.63)*	**10** *(7.5)*	**0,047** *(0.11)*
VUBA 100	**BSPP 1**	**180** *(47)*		**20** *(0.79)*	**26** *(1.02)*	**19** *(0.75)*	**48** *(1.89)*	**7** *(0.28)*	**40** *(1.57)*	**63** *(2.48)*	**22** *(0.87)*	**12** *(9)*	**0,1** *(0.22)*
VUBA 1215	**M12x1.5**	**15** *(4)*		**8,4** *(0.33)*	**10** *(0.39)*	**7,5** *(0.29)*	**25** *(0.98)*	**1,6** *(0.06)*	**19** *(0.75)*	**35** *(1.38)*	**7** *(0.28)*	**2** *(1.5)*	**0,007** *(0.016)*
VUBA 1415	**M14x1.5**	**25** *(6.5)*		**11** *(0.43)*	**11,5** *(0.45)*	**9** *(0.35)*		**2,5** *(0.10)*	**23** *(0.90)*			**3** *(2.5)*	**0,012** *(0.027)*
VUBA 1615	**M16x1.5**	**50** *(13)*			**12,7** *(0.50)*	**10** *(0.39)*	**30** *(1.18)*	**3,25** *(0.13)*		**41** *(1.62)*	**9,5** *(0.37)*	**3** *(2.5)*	**0,013** *(0.029)*
VUBA 2215	**M22x1.5**	**80** *(21)*		**13** *(0.51)*	**15** *(0.59)*	**11,5** *(0.45)*	**33** *(1.30)*	**4** *(0.16)*	**29** *(1.14)*	**46** *(1.18)*	**12** *(0.47)*	**4** *(3)*	**0,024** *(0.053)*

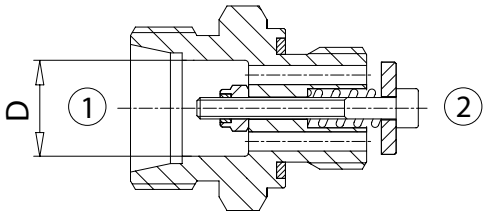
VUBADIN

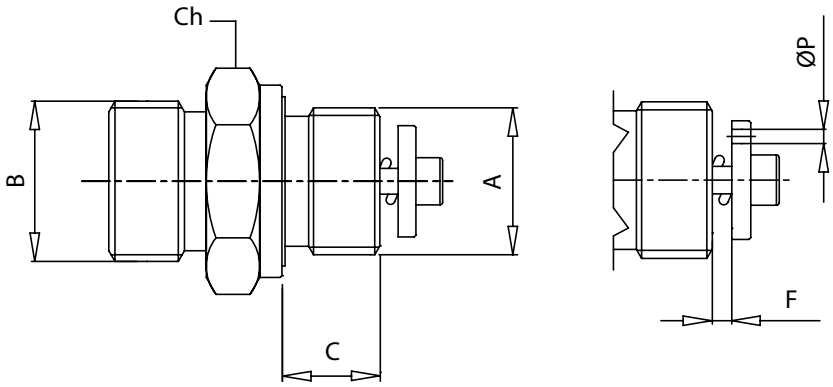
Valvole unidirezionali registrabili DIN
DIN Adjustable check valves



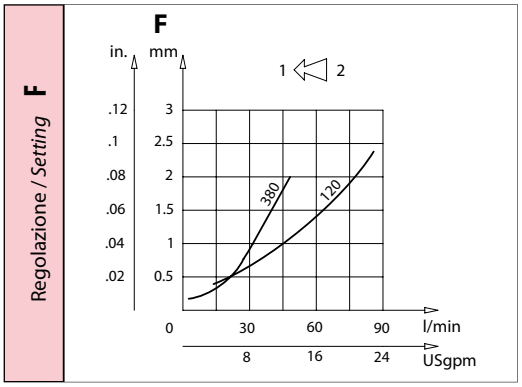
Dati tecnici
Technical data

Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*
Classe di contaminazione *Filtration*	ISO code 16/13 *SAE class 4 or better*
Temperatura fluido *Fluid temperature*	-20°C +80°C *-4°F + 176°F*
Temperatura ambiente *Ambient temperature*	-20°C +50°C *-4°F +122°F*





mm
(Inches)



Codice ordinazione
Ordering code

VUBA-X-Y-K-Z

X	Dimensione / *Size*		
380	**BSPP 3/8**		
120	**BSPP 1/2**		
Y	Dimensione / *Size*		
T10	**Per tubo Ø 10** *For Ø 10 pipe*	**Solo VUBA380** *VUBA380 only*	
T12	**Per tubo Ø 12** *For Ø 12 pipe*		
T15	**Per tubo Ø 15** *For Ø 15 pipe*		

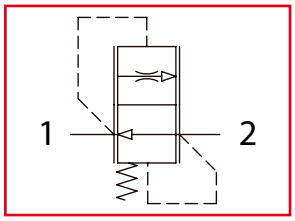
K	Regolazione / *Setting*
F_,_	**Esempio: regolazione** *0,7 mm* *Example: setting 0.7 mm* **F 0,7**
	Omettere se non richiesto *Omit if not required*
Z	Foro sul piattello *Hole on flat poppet*
P_,_	**Esempio: foro 1,5 mm** *Example: hole 1,5 mm* **P 1,5**
	Omettere se non richiesto *Omit if not required*

Caratteristiche tecniche
Technical performances

Codice *Code*	A	Portata Max *Max flow* l/min - *USgpm*	Pressione Max *Max pressure* bar/*PSI*	B	C	D	Coppia max di serraggio raccordo (Nm) *Max fitting tightening torque (lbt ft)*	Coppia max di serraggio tubo (Nm) *Max tightening torque for hose (lbt ft)*	Peso approssimativo *Approx weight* Kg / *lb*
VUBA380T10	**BSPP 3/8**	**50** *(13)*	**315** *(4500)*	**M16 x 1,5**	**11** *(0.43)*	**10** *(0.39)*	**70** *(50)*	**20** *(15)*	**0,035** *(0.08)*
VUBA380T12				**M18 x 1,5**		**12** *(0.47)*		**40** *(30)*	**0,038** *(0.085)*
VUBA380T15				**M22 x 1,5**		**15** *(0.59)*		**70** *(50)*	**0,040** *(0.09)*
VUBA120T15	**BSPP 1/2**	**80** *(21)*			**13** *(0.51)*		**85** *(65)*		**0,045** *(0.10)*

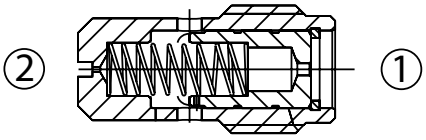
VCC140

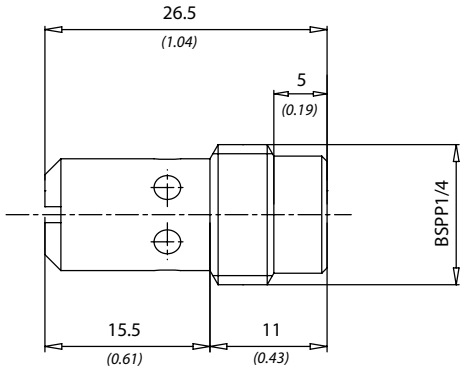
Valvole controllo discesa compensate fisse
Fixed compensated load control valves

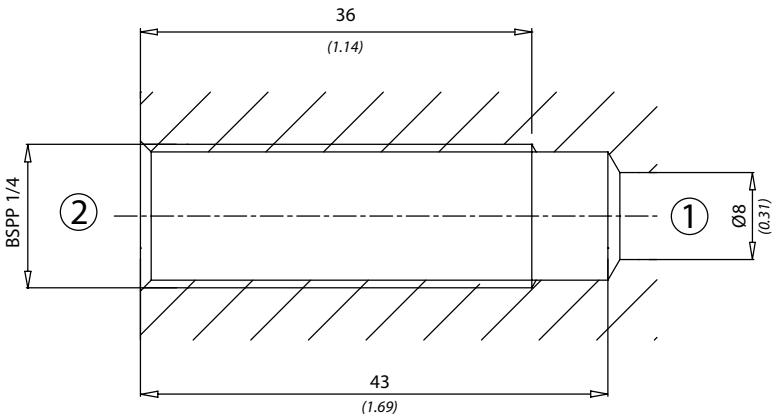


Dati tecnici
Technical data

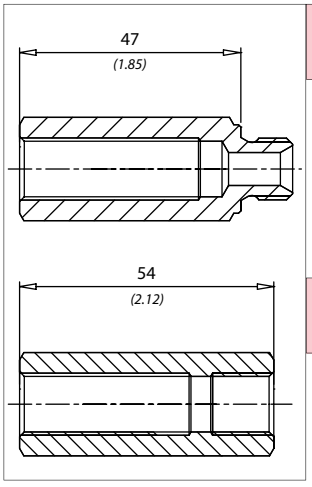
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*
Classe di contaminazione *Filtration*	ISO code 16/13 *SAE class 4 or better*
Temperatura fluido *Fluid temperature*	-20°C +80°C *-4°F + 176°F*
Temperatura ambiente *Ambient temperature*	-20°C +50°C *-4°F +122°F*





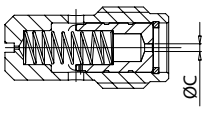


mm
(Inches)



Codice / *Code*
61100160

Codice / *Code*
61100159



Codice *Code*	Ø C
VCC1401	**Ø 1** *(Ø 0.039)*
VCC1402	**Ø 1,2** *(Ø 0.047)*
VCC1403	**Ø 1,5** *(Ø 0.059)*
VCC1404	**Ø 1,7** *(Ø 0.067)*
VCC1405	**Ø 1,9** *(Ø 0.075)*
VCC1406	**Ø 2,1** *(Ø 0.083)*
VCC1407	**Ø 2,3** *(Ø 0.090)*
VCC1408	**Ø 2,5** *(Ø 0.098)*
VCC1409	**Ø 2,7** *(Ø 0.106)*
VCC14010	**Ø 2,8** *(Ø 0.110)*
VCC14011	**Ø 2,9** *(Ø 0.114)*
VCC14012	**Ø 3** *(Ø 0.118)*

Codice ordinazione
Ordering code

VCC140 - Y

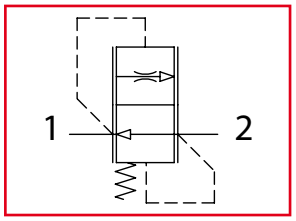
Y	Portata controllata a 100 bar ± 10% *Controlled flow at 100 bar ± 10 %*	
1	**1 l/min**	*(0.25 USgpm)*
2	**2 l/min**	*(0.5 USgpm)*
3	**3 l/min**	*(0.75 USgpm)*
4	**4 l/min**	*(1 USgpm)*
5	**5 l/min**	*(1.25 USgpm)*
6	**6 l/min**	*(1.5 USgpm)*
7	**7 l/min**	*(1.75 USgpm)*
8	**8 l/min**	*(2 USgpm)*
9	**9 l/min**	*(2.25 USgpm)*
10	**10 l/min**	*(2.5 USgpm)*
11	**11 l/min**	*(2.75 USgpm)*
12	**12 l/min**	*(3 USgpm)*

Caratteristiche tecniche
Technical performances

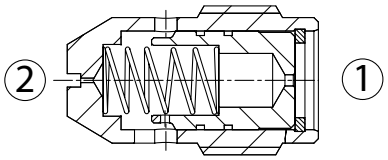
Codice *Code*	**Portata Max** *Max flow* l/min - *USgpm*	**Pressione Max** *Max pressure* bar/*PSI*	Peso approssimativo *Approx weight* Kg / *lb*	Coppia di serraggio (Nm) *Tightening torque (lbt ft)*
VCC140	**12** *(3)*	**250** *(3600)*	**0,015** *(0.033)*	**6** *(4.5)*

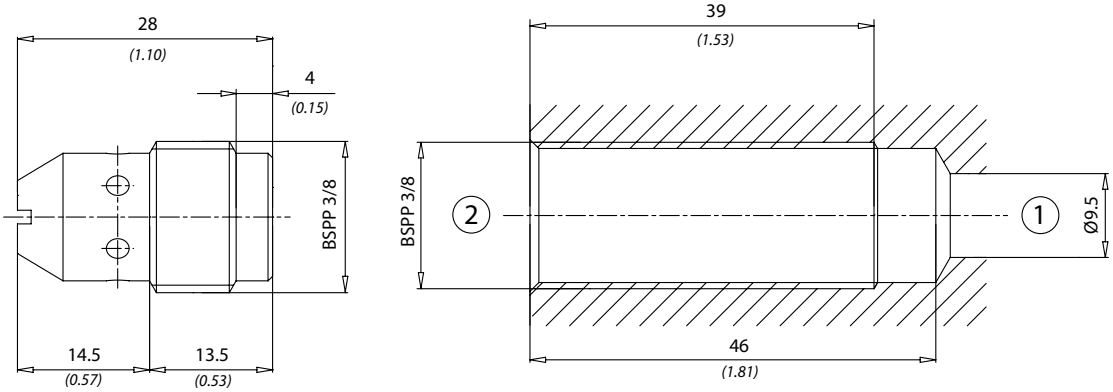
VCC380

Valvole controllo discesa compensate fisse
Fixed compensated load control valves

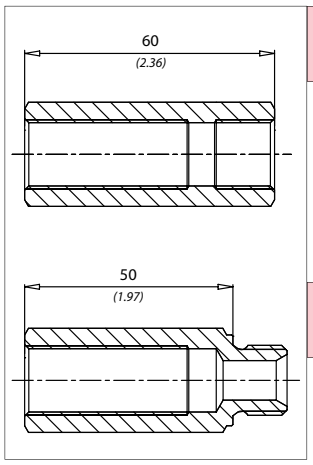


Dati tecnici *Technical data*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*
Classe di contaminazione *Filtration*	ISO code 16/13 *SAE class 4 or better*
Temperatura fluido *Fluid temperature*	-20°C +80°C *-4°F + 176°F*
Temperatura ambiente *Ambient temperature*	-20°C +50°C *-4°F +122°F*



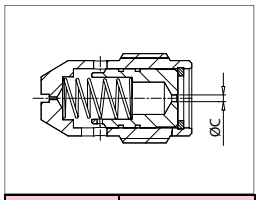


mm
(Inches)



Codice / *Code*
61100161

Codice / *Code*
61100162



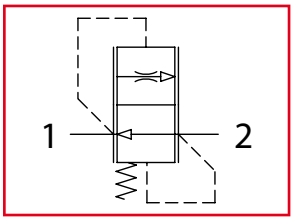
Codice *Code*	Ø C
VCC3801	**Ø 0,6** *(Ø 0.023)*
VCC3802	**Ø 1,1** *(Ø 0.043)*
VCC3803	**Ø 1,5** *(Ø 0.059)*
VCC3804	**Ø 2** *(Ø 0.078)*
VCC3805	**Ø 2,2** *(Ø 0.086)*
VCC3806	**Ø 2,5** *(Ø 0.098)*
VCC3807	**Ø 2,7** *(Ø 0.106)*
VCC3808	**Ø 2,9** *(Ø 0.114)*
VCC3809	**Ø 3** *(Ø 0.118)*
VCC38010	**Ø 3,5** *(Ø 0.137)*
VCC38011	**Ø 3,6** *(Ø 0.141)*
VCC38012	**Ø 4** *(Ø 0.157)*
VCC38016	**Ø 5** *(Ø 0.196)*
VCC38018	**Ø 5,5** *(Ø 0.216)*

Caratteristiche tecniche *Technical performances*				
Codice *Code*	**Portata Max** *Max flow* l/min - *USgpm*	**Pressione Max** *Max pressure* bar/*PSI*	Peso approssimativo *Approx weight* Kg / *lb*	Coppia di serraggio (Nm) *Tightening torque (lbf ft)*
VCC380	**18** *(5)*	**250** *(3600)*	**0,022** *(0.05)*	**6** *(4.5)*

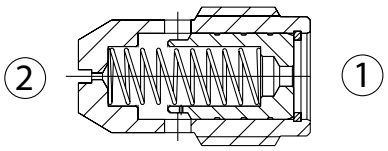
Codice ordinazione *Ordering code*		
VCC380 - Y		
Y	Portata controllata a 100 bar ± 10% *Controlled flow at 100 bar* ± 10 %	
1	**1 l/min**	*(0.25 USgpm)*
2	**2 l/min**	*(0.5 USgpm)*
3	**3 l/min**	*(0.75 USgpm)*
4	**4 l/min**	*(1 USgpm)*
5	**5 l/min**	*(1.25 USgpm)*
6	**6 l/min**	*(1.5 USgpm)*
7	**7 l/min**	*(1.75 USgpm)*
8	**8 l/min**	*(2 USgpm)*
9	**9 l/min**	*(2.25 USgpm)*
10	**10 l/min**	*(2.5 USgpm)*
11	**11 l/min**	*(2.75 USgpm)*
12	**12 l/min**	*(3 USgpm)*
16	**16 l/min**	*(4.25 USgpm)*
18	**18 l/min**	*(4.75 USgpm)*

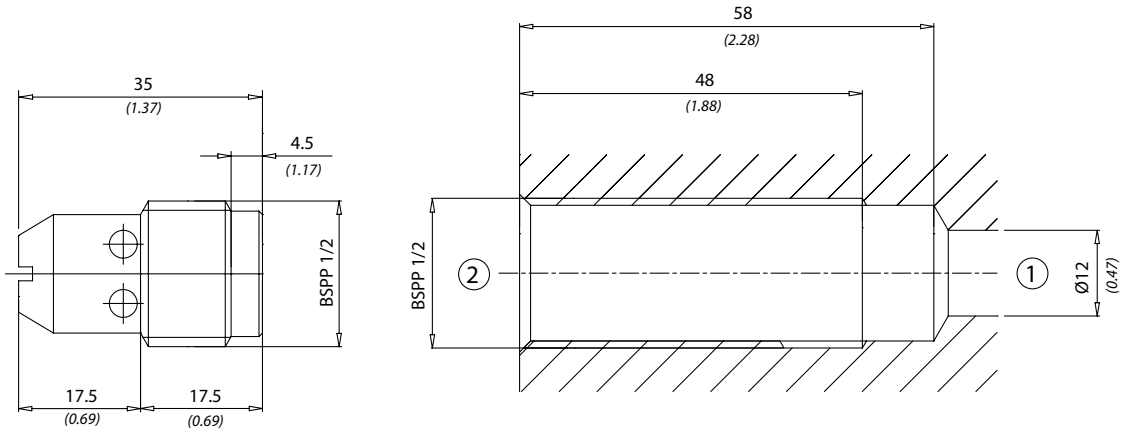
VSC120

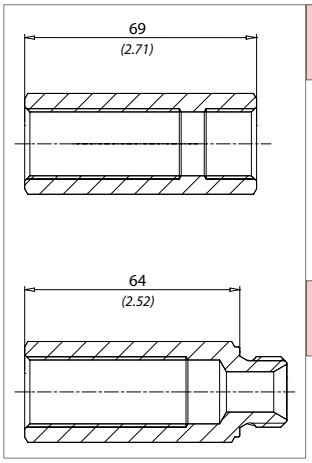
Valvole controllo discesa compensate fisse
Fixed compensated load control valves



Dati tecnici *Technical data*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*
Classe di contaminazione *Filtration*	ISO code 16/13 *SAE class 4 or better*
Temperatura fluido *Fluid temperature*	-20°C +80°C *-4°F + 176°F*
Temperatura ambiente *Ambient temperature*	-20°C +50°C *-4°F +122°F*



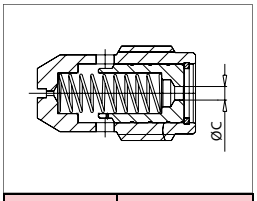




Codice / *Code*
61100163

Codice / *Code*
61100033

mm
(Inches)



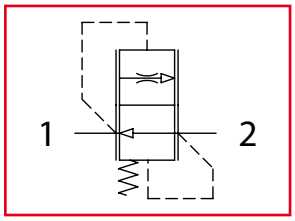
Codice *Code*	Ø C
VSC1209	**Ø 2,5** *(Ø 0.098)*
VSC12012	**Ø 3** *(Ø 0.118)*
VSC12017	**Ø 3,5** *(Ø 0.137)*
VSC12021	**Ø 4** *(Ø 0.157)*
VSC12027	**Ø 4,5** *(Ø 0.117)*
VSC12032	**Ø 5** *(Ø 0.196)*
VSC12040	**Ø 5,5** *(Ø 0.216)*
VSC12047	**Ø 6** *(Ø 0.236)*

Caratteristiche tecniche *Technical performances*				
Codice *Code*	**Portata Max** ***Max flow*** **l/min - *USgpm***	**Pressione Max** ***Max pressure*** **bar/*PSI***	Peso approssimativo *Approx weight* Kg / *lb*	Coppia di serraggio (Nm) *Tightening torque (lbt ft)*
VSC120	**47** *(12)*	**210** *(3000)*	**0,048** *(0.1)*	**10** *(7.5)*

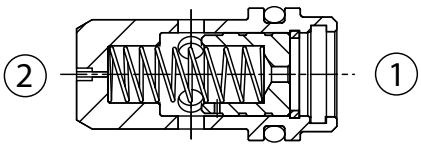
Codice ordinazione *Ordering code*		
VSC120 - Y		
Y	Portata controllata a 100 bar ± 10% *Controlled flow* *at 100 bar* ± 10 %	
9	**9 l/min**	*(2.25 USgpm)*
12	**12 l/min**	*(3 USgpm)*
17	**17 l/min**	*(4.5 USgpm)*
21	**21 l/min**	*(5.5 USgpm)*
27	**27 l/min**	*(7 USgpm)*
32	**32 l/min**	*(8.5 USgpm)*
40	**40 l/min**	*(10.5 USgpm)*
47	**47 l/min**	*(12.5 USgpm)*

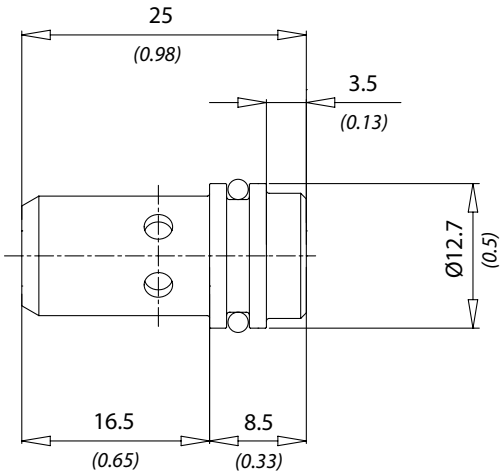
VSCR6

Valvole controllo discesa compensate fisse
Fixed compensated load control valves

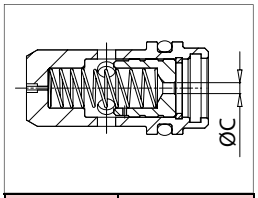


Dati tecnici *Technical data*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*
Classe di contaminazione *Filtration*	ISO code 16/13 *SAE class 4 or better*
Temperatura fluido *Fluid temperature*	-20°C +80°C *-4°F + 176°F*
Temperatura ambiente *Ambient temperature*	-20°C +50°C *-4°F +122°F*





mm
(Inches)



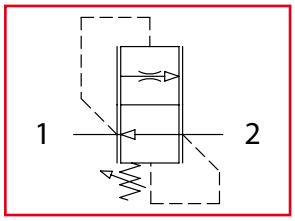
Codice *Code*	Ø C
VSCR61	**Ø 0,8** *(Ø 0.031)*
VSCR62	**Ø 1** *(Ø 0.039)*
VSCR63	**Ø 1,25** *(Ø 0.049)*
VSCR64	**Ø 1,5** *(Ø 0.059)*
VSCR65	**Ø 1,75** *(Ø 0.069)*
VSCR66	**Ø 2** *(Ø 0.078)*
VSCR67	**Ø 2,5** *(Ø 0.098)*
VSCR68	**Ø 2,75** *(Ø 0.108)*
VSCR69	**Ø 3** *(Ø 0.118)*
VSCR610	**Ø 3,5** *(Ø 0.137)*
VSCR611	**Ø 3,75** *(Ø 0.147)*
VSCR612	**Ø 4** *(Ø 0.157)*
VSCR613	**Ø 4,25** *(Ø 0.167)*
VSCR615	**Ø 5** *(Ø 0.196)*

Codice ordinazione *Ordering code*		
VSCR6 - Y		
Y	Portata controllata a 100 bar ± 10% *Controlled flow* *at 100 bar* ± 10 %	
1	**1 l/min**	*(0.25 USgpm)*
2	**2 l/min**	*(0.5 USgpm)*
3	**3 l/min**	*(0.75 USgpm)*
4	**4 l/min**	*(1 USgpm)*
5	**5 l/min**	*(1.25 USgpm)*
6	**6 l/min**	*(1.5 USgpm)*
7	**7 l/min**	*(1.75 USgpm)*
8	**8 l/min**	*(2 USgpm)*
9	**9 l/min**	*(2.25 USgpm)*
10	**10 l/min**	*(2.5 USgpm)*
11	**11 l/min**	*(2.75 USgpm)*
12	**12 l/min**	*(3 USgpm)*
13	**13 l/min**	*(3.5 USgpm)*
15	**14 l/min**	*(4 USgpm)*

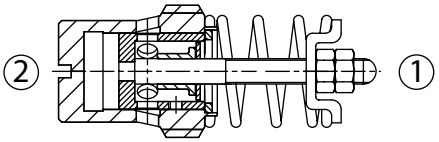
Caratteristiche tecniche *Technical performances*			
Codice *Code*	**Portata Max** ***Max flow*** **l/min - *USgpm***	**Pressione Max** ***Max pressure*** **bar/*PSI***	Peso approssimativo *Approx weight* Kg / *lb*
VSCR6	**12** *(3)*	**250** *(3600)*	**0,015** *(0.033)*

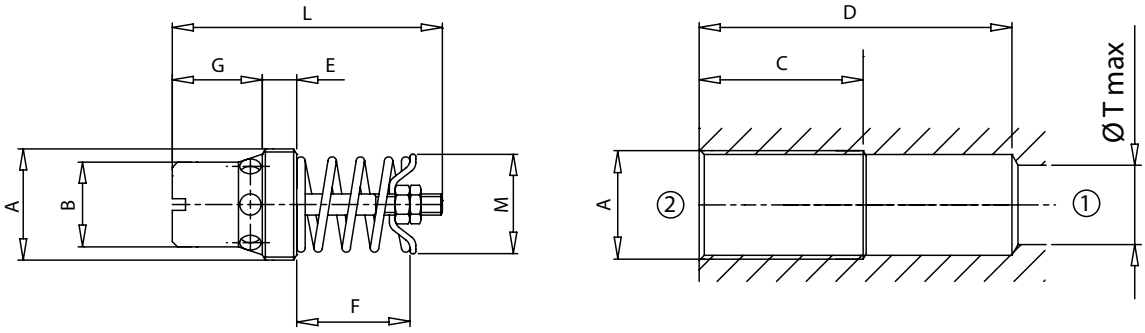
VRD

Valvole controllo discesa compensate regolabili
Adjustable compensated flow control valves

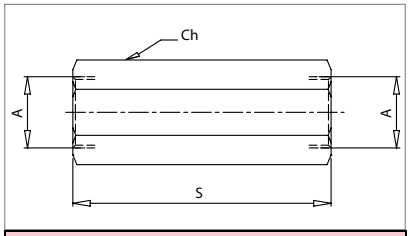


Dati tecnici *Technical data*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*
Classe di contaminazione *Filtration*	ISO code 16/13 *SAE class 4 or better*
Temperatura fluido *Fluid temperature*	-20°C +80°C *-4°F + 176°F*
Temperatura ambiente *Ambient temperature*	-20°C +50°C *-4°F +122°F*

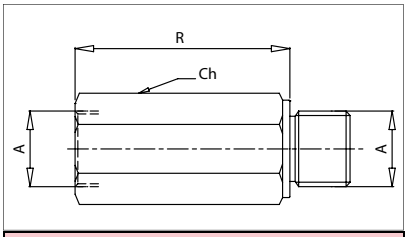




mm
(Inches)



Colonnetta / *Housings* M/F		
Dimensioni / *Dimensions*		
Codice *Code*	A	Peso / *Weight* Kg / *lb*
61100051	**BSPP 1/4**	**0,11** *(0.16)*
61100052	**BSPP 3/8**	**0,12** *(0.20)*
61100053	**BSPP 1/2**	**0,20** *(0.33)*
61100054	**BSPP 3/4**	**0,29** *(0.50)*



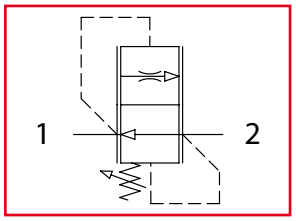
Colonnetta / *Housings* F/F		
Dimensioni / *Dimensions*		
Codice *Code*	A	Peso / *Weight* Kg / *lb*
61100057	**BSPP 1/4**	**0,11** *(0.16)*
61100058	**BSPP 3/8**	**0,14** *(0.20)*
61100059	**BSPP 1/2**	**0,24** *(0.30)*
61100060	**BSPP 3/4**	**0,34** *(0.48)*

Caratteristiche tecniche
Technical performances

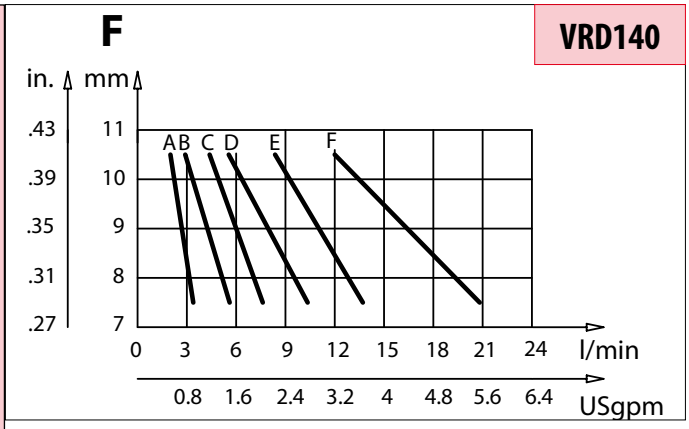
Codice *Code*	A	Portata Max *Max flow* l/min - *USgpm*	Pressione Max *Max pressure* bar/*PSI*	B	C	D	E	T	G	L	M	R	S	Ch	Peso approssimativo *Approx weight* Kg / *lb*
VRD140	**BSPP 1/4**	**20** *(5.3)*	**300** *(4350)*	**10** *(0.39)*	**33** *(1.30)*	**53** *(2.09)*	**6** *(0.24)*	**7** *(0.28)*	**13,5** *(0.53)*	**39** *(1.54)*	**10** *(0.39)*	**57** *(2.24)*	**66** *(2.60)*	**19** *(0.75)*	**0,013** *(0.029)*
VRD380	**BSPP 3/8**	**35** *(9.2)*		**12,5** *(0.49)*	**36** *(1.42)*	**60** *(2.63)*	**5** *(0.20)*	**9.5** *(0.37)*	**15,5** *(0.61)*	**45** *(1.77)*	**14** *(0.55)*	**64** *(2.52)*	**73** *(2.87)*	**22** *(0.87)*	**0,024** *(0.053)*
VRD120	**BSPP 1/2**	**65** *(17.1)*		**16** *(0.63)*	**39** *(1.54)*	**63** *(2.48)*	**7** *(0.28)*	**12** *(0.47)*	**16** *(0.63)*	**51** *(2.01)*	**18** *(0.71)*	**69** *(2.72)*	**81** *(3.19)*	**27** *(1.06)*	**0,037** *(0.082)*
VRD340	**BSPP 3/4**	**150** *(40)*		**20** *(0.79)*	**50** *(1.97)*	**81** *(3.19)*	**10** *(0.39)*	**16** *(0.63)*	**21** *(0.83)*	**62** *(2.44)*	**23** *(0.91)*	**87** *(3.43)*	**99** *(3.90)*	**32** *(1.26)*	**0,077** *(0.17)*

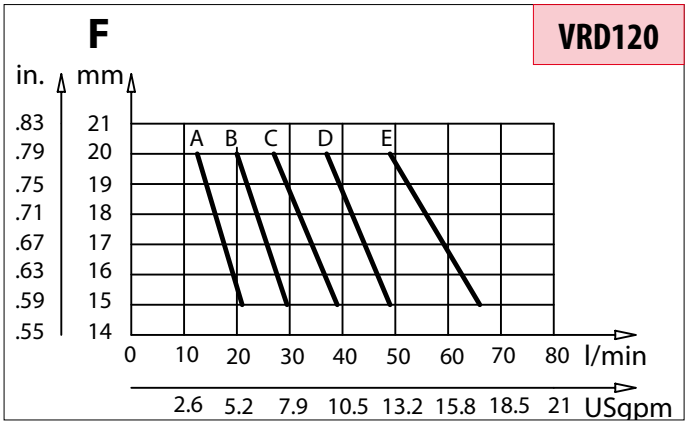
VRD

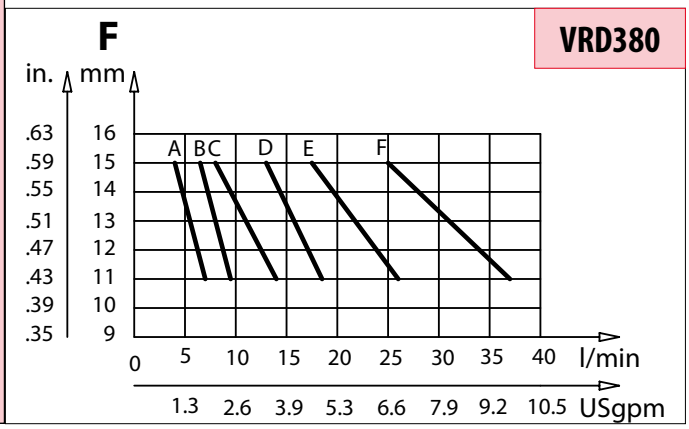
Valvole controllo discesa compensate regolabili
Adjustable compensated flow control valves

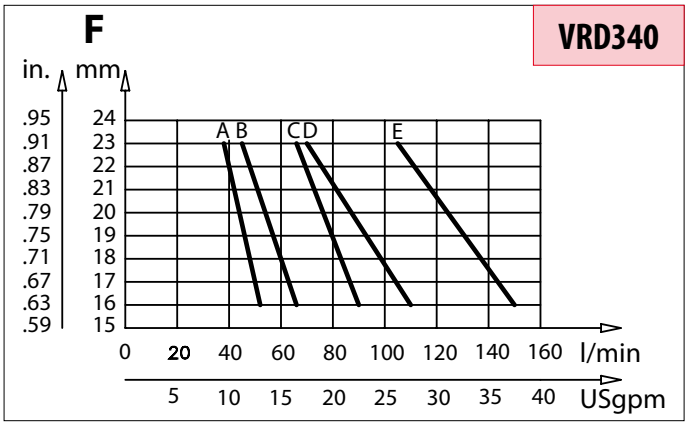


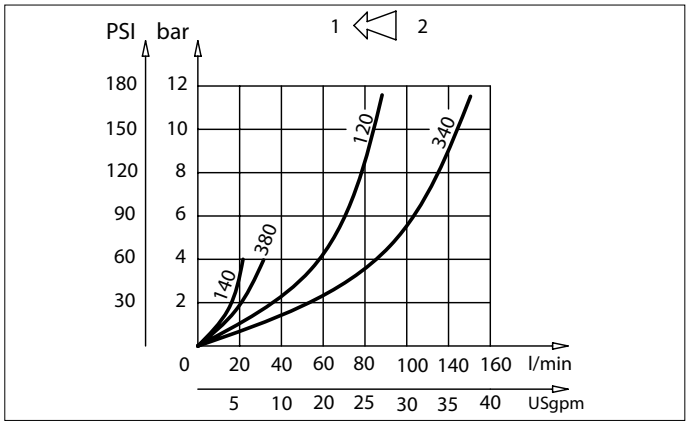
Perdite di carico
Pressure drops











Codice ordinazione
Ordering code

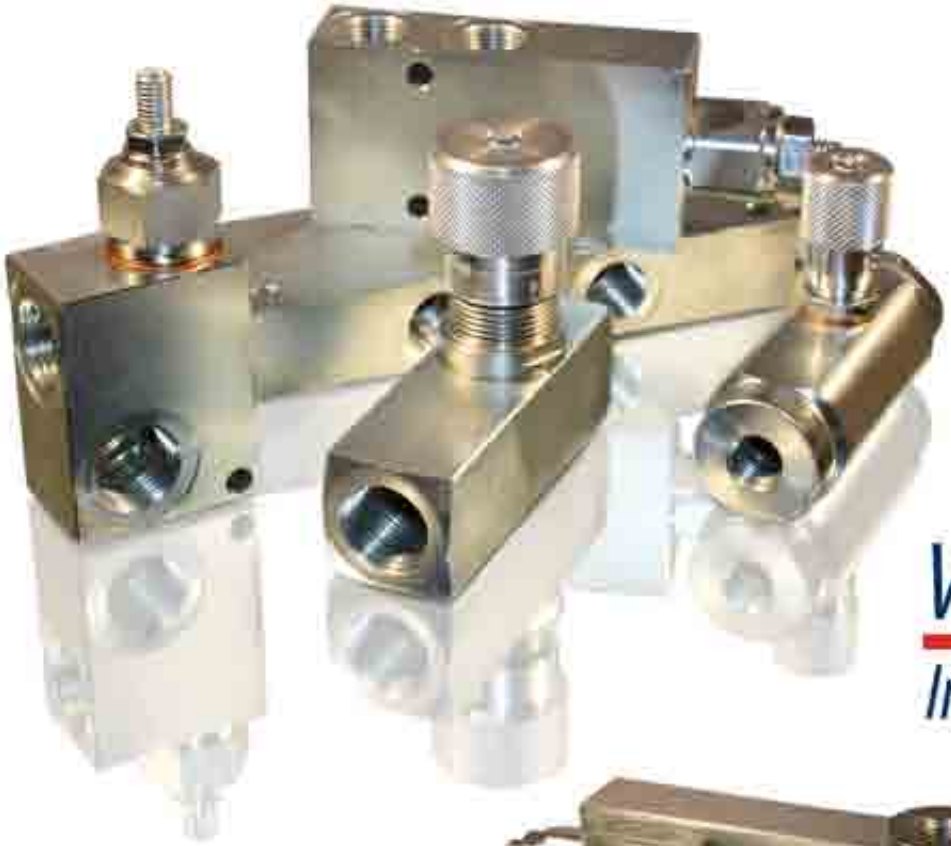
VRD - X - Y - K

X	Dimensione / *Size*
140	BSPP 1/4
380	BSPP 3/8
120	BSPP 1/2
340	BSPP 3/4

Campo di regolazione / *Flow Range*

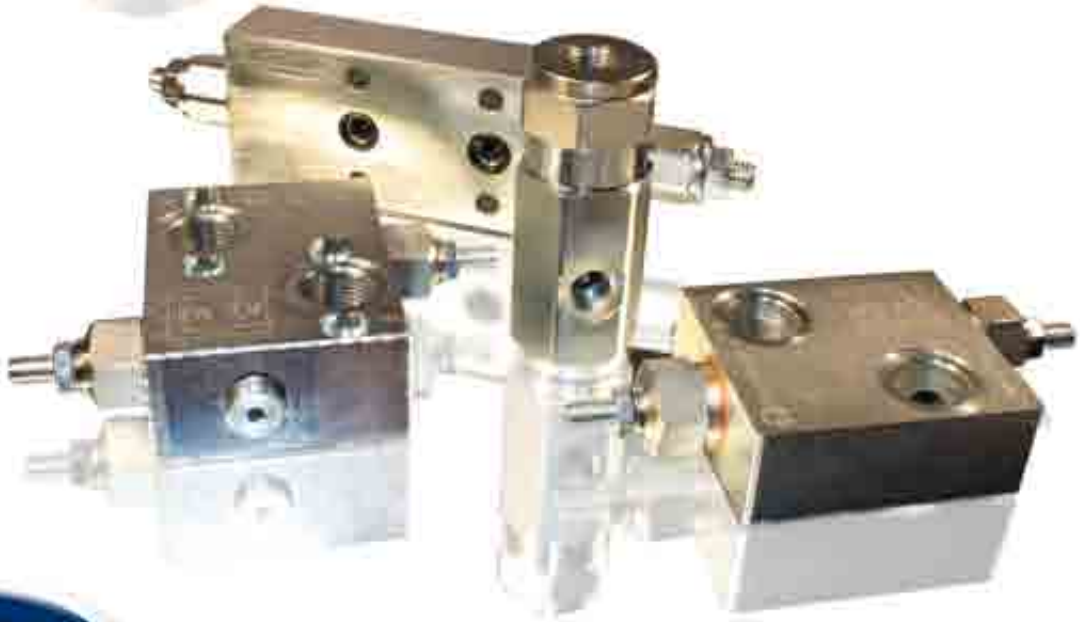
Y	Portata controllata a 50 bar ± 0,10 l/min *Controlled flow at 50 bar ± 0.10 USgpm*					
	A	B	C	D	E	F
VRD140	**0,8 / 7** *(0.2 / 1.9)*	**1,5 / 9,5** *(0.4 / 2.5)*	**2,3 / 14** *(0.6 / 3.7)*	**4 / 18,5** *(1 / 4.9)*	**6 / 26** *(1.6 / 6.8)*	**8 / 37** *(2.1 / 9.7)*
VRD380	**4 / 7** *(1 / 1.9)*	**6,5 / 9,5** *(1.7 / 2.5)*	**8 / 14** *(2.1 / 3.7)*	**13 / 18.5** *(3.4 / 4.9)*	**17,5 / 26** *(4.6 / 6.8)*	**25 / 37** *(6.6 / 9.7)*
VRD120	**12,5 / 21** *(3.3 / 5.5)*	**20 / 29,5** *(5.3 / 7.8)*	**27 / 39** *(7.1 / 10.3)*	**37 / 49** *(9.7 / 12.9)*	**49 / 66** *(12.9 / 17.4)*	-
VRD340	**38 / 52** *(10 / 13.7)*	**45 / 66** *(12 / 17.4)*	**66 / 90** *(17.4 / 23.8)*	**70 / 110** *(18.5 / 29)*	**115 / 150** *(30 / 40)*	-

K	Regolazione / *Setting*
F_,_	**Esempio: regolazione 15 mm** *Example: setting 15 mm* **F 15**
	Omettere se non richiesto *Omit if not required*



Valvole in linea

In-line valves

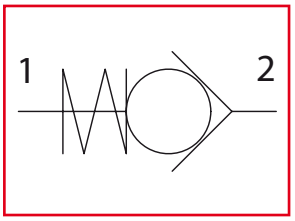


Oleoweb

HYDRAULIC VALVES AND COMPONENTS

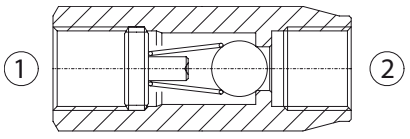
VUR-BSP

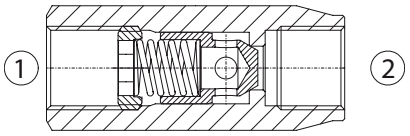
Valvole unidirezionali
Check valves

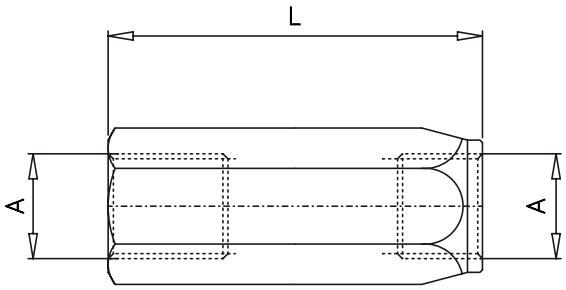


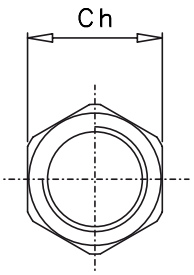
Dati tecnici
Technical data

Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*
Classe di contaminazione *Filtration*	ISO code 16/13 *SAE class 4 or better*
Temperatura fluido *Fluid temperature*	-20°C +80°C *-4°F + 176°F*
Temperatura ambiente *Ambient temperature*	-20°C +50°C *-4°F +122°F*



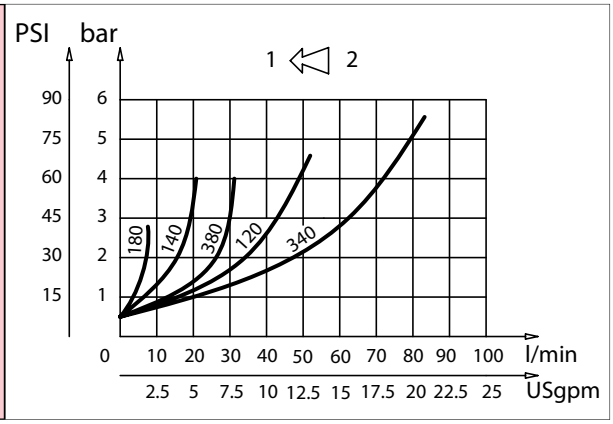


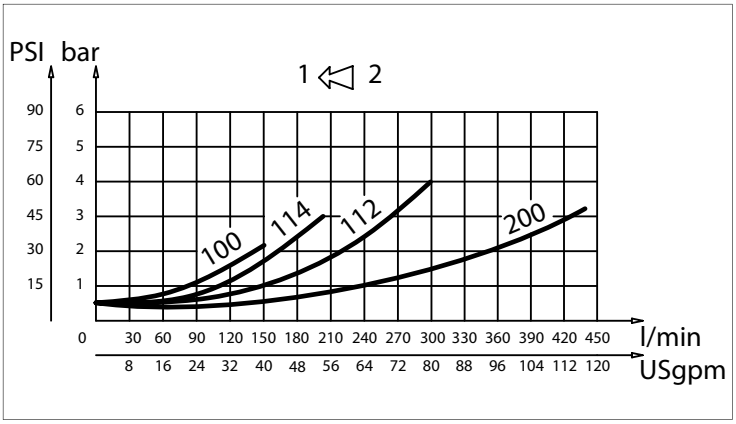




mm
(Inches)

Perdite di carico
Pressure drops





Caratteristiche tecniche
Technical performances

Codice *Code*	A	Portata Max *Max flow* l/min-*USgpm*	Pressione Max *Max pressure* bar/*PSI*	L	Ch	Peso approssimativo *Approx weight* Kg / *lb*
VUR 180	**BSPP 1/8**	**5** *(1.3)*	**400** *(5800)*	**47** *(1.85)*	**14** *(0.55)*	**0,05** *(0,11)*
VUR 140	**BSPP 1/4**	**15** *(4)*	**350** *(5000)*	**55** *(2.16)*	**19** *(0.75)*	**0,10** *(0,22)*
VUR 380	**BSPP 3/8**	**30** *(8)*		**65** *(2.56)*	**24** *(0.94)*	**0,18** *(0,40)*
VUR 120	**BSPP 1/2**	**50** *(13)*	**320** *(4600)*	**75** *(2.95)*	**27** *(1.06)*	**0,31** *(0,70)*
VUR 340	**BSPP 3/4**	**90** *(23)*	**300** *(4350)*	**86,5** *(3.41)*	**35** *(1.38)*	**0,45** *(1)*
VUR 100	**BSPP 1**	**150** *(40)*	**250** *(3600)*	**110** *(4.33)*	**41** *(1.61)*	**0,95** *(2,10)*
VUR 114	**BSPP 1-1/4**	**200** *(50)*		**123** *(4.84)*	**55** *(2.16)*	**1,49** *(3,30)*
VUR 112	**BSPP 1-1/2**	**300** *(80)*	**210** *(3000)*	**138** *(5.43)*	**60** *(2.36)*	**2,40** *(5,30)*
VUR 200	**BSPP 2**	**430** *(110)*	**150** *(2100)*	**160** *(6.30)*	**70** *(2.76)*	**3** *(6,60)*

Codice ordinazione
Ordering code

VUR - X - Y - K

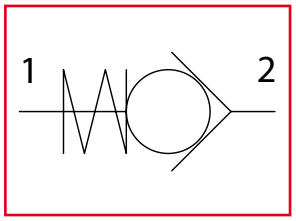
X	Dimensione / *Size*
180	**BSPP 1/8**
140	**BSPP 1/4**
380	**BSPP 3/8**
120	**BSPP 1/2**
340	**BSPP 3/4**
100	**BSPP 1**
114	**BSPP 1-1/4**
112	**BSPP 1-1/2**
200	**BSPP 2**

Y	Tenuta / *Sealing*
SF	**Tenuta a sfera solo per VUR 180/140/380/120** *Ball sealing only for VUR 180/140/380/120*
SP	**Tenuta a cono** *Poppet sealing*

K	Molla / *Spring*
1	**1 bar Standard**
3	**3 bar**
6	**6 bar**

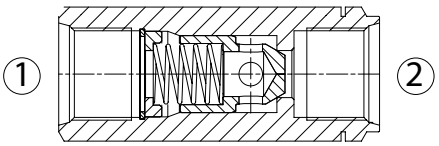
VUR-SAE

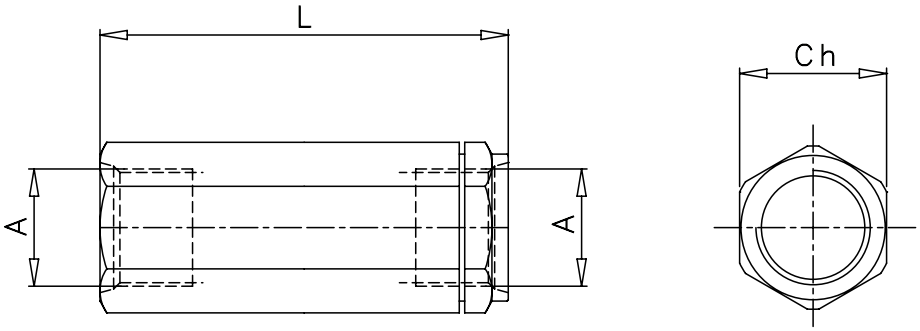
Valvole unidirezionali
Check valves



Dati tecnici
Technical data

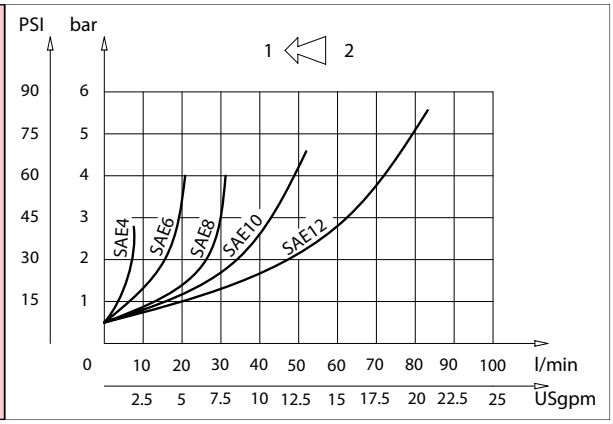
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*
Classe di contaminazione *Filtration*	ISO code 16/13 *SAE class 4 or better*
Temperatura fluido *Fluid temperature*	-20°C +80°C *-4°F + 176°F*
Temperatura ambiente *Ambient temperature*	-20°C +50°C *-4°F +122°F*

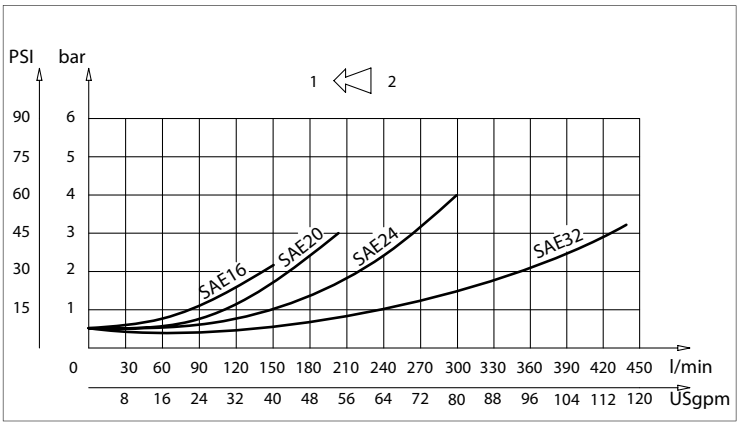




mm
(Inches)

Perdite di carico
Pressure drops





Caratteristiche tecniche
Technical performances

Codice *Code*	A	Portata Max *Max flow* l/min - *USgpm*	Pressione Max *Max pressure* bar/*PSI*	L	Ch	Peso approssimativo *Approx weight* Kg / *lb*
VUR 4 SAE	**7/16 - 20 UNF**	**5** *(1.3)*	**400** *(5800)*	**55** *(2.16)*	**19** *(0.75)*	**0,05** *(0.11)*
VUR 6 SAE	**9/16 - 18 UNF**	**15** *(4)*		**58** *(2.28)*	**19** *(0.75)*	**0,10** *(0.22)*
VUR 8 SAE	**3/4 - 16 UNF**	**30** *(8)*		**69** *(2.71)*	**24** *(0.94)*	**0,18** *(0.40)*
VUR 10 SAE	**7/8 - 14 UNF**	**50** *(13)*		**75** *(2.95)*	**27** *(1.06)*	**0,31** *(0.70)*
VUR 12 SAE	**1-1/16-12 UNF**	**90** *(23)*	**350** *(5000)*	**88,5** *(3.48)*	**35** *(1.38)*	**0,45** *(1)*
VUR 16 SAE	**1-5/16-12 UNF**	**150** *(40)*		**110** *(4.33)*	**41** *(1.61)*	**0,95** *(2.1)*
VUR 20 SAE	**1-5/8-12 UNF**	**200** *(50)*		**120** *(4.72)*	**55** *(2.16)*	**1,49** *(3.30)*
VUR 24 SAE	**1-7/8-12 UNF**	**300** *(80)*		**138** *(5.43)*	**60** (2.36)	**2,40** *(5.30)*
VUR 32 SAE	**2-1/2-12 UNF**	**430** *(110)*			**75** *(2.97)*	**3** *(6.60)*

Codice ordinazione
Ordering code

VUR-X-SAE-Y-K

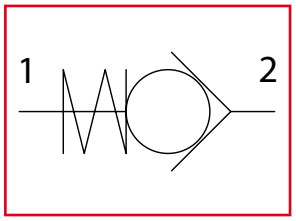
X	Dimensione / *Size*
4	**7/16 - 20 UNF**
6	**9/16 - 18 UNF**
8	**3/4 - 16 UNF**
10	**7/8 - 14 UNF**
12	**1-1 / 16-12 UNF**
16	**1-5 / 16-12 UNF**
20	**1-5 / 8-12 UNF**
24	**1-7 / 8-12 UNF**
32	**2-1 / 2-12 UNF**

Y	Tenuta / *Sealing*
SP	**Tenuta a cono** *Poppet sealing*

K	Molla / *Spring*
1	**1 bar Standard**
3	**3 bar**
6	**6 bar**

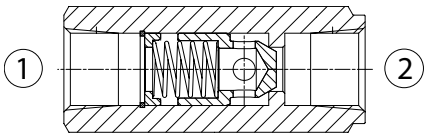
VUR-NPTF

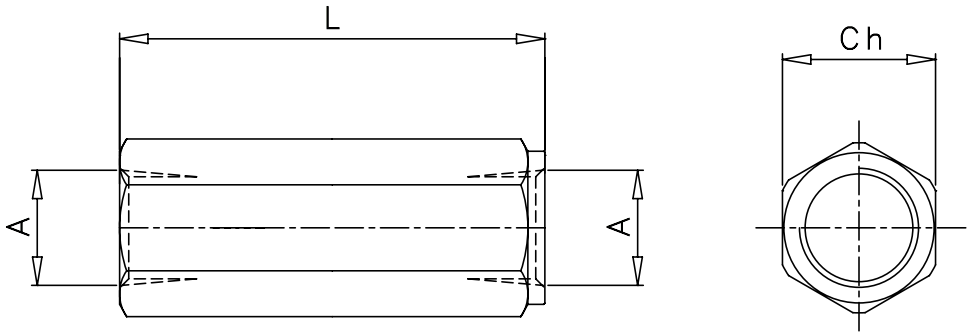
Valvole unidirezionali
Check valves



Dati tecnici
Technical data

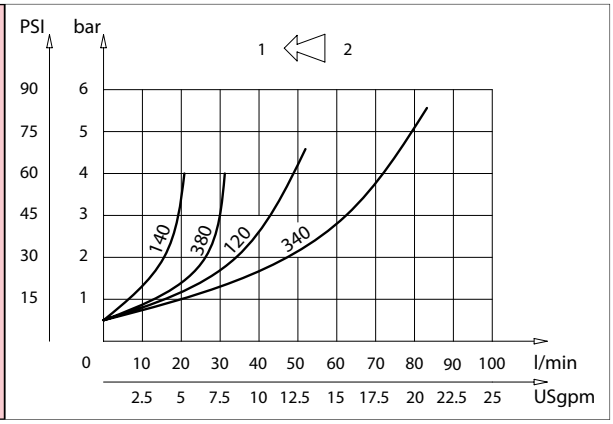
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*
Classe di contaminazione *Filtration*	ISO code 16/13 *SAE class 4 or better*
Temperatura fluido *Fluid temperature*	-20°C +80°C *-4°F + 176°F*
Temperatura ambiente *Ambient temperature*	-20°C +50°C *-4°F +122°F*

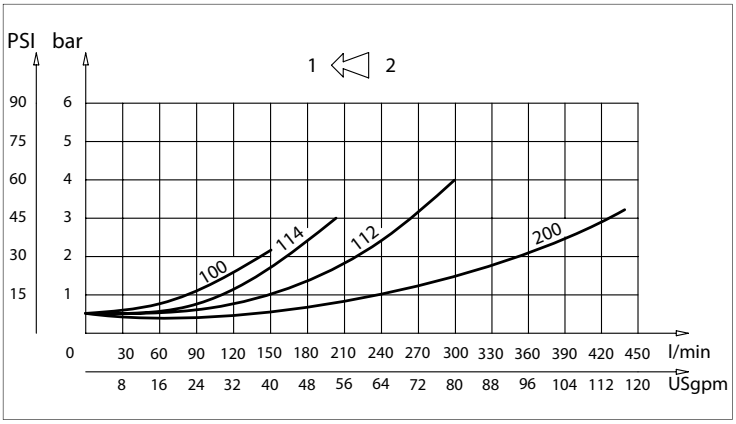




mm
(Inches)

Perdite di carico
Pressure drops





Caratteristiche tecniche
Technical performances

Codice *Code*	A	Portata Max Max flow l/min - *USgpm*	Pressione Max *Max pressure* bar/*PSI*	L	Ch	Peso approssimativo *Approx weight* Kg / *lb*
VUR 140 NPTF	**1/4 NPTF**	**15** *(4)*	**400** *(5800)*	**58** *(2.28)*	**19** *(0.75)*	**0,10** *(0.22)*
VUR 380 NPTF	**3/8 NPTF**	**30** *(8)*		**69** *(2.72)*	**24** *(0.94)*	**0,18** *(0.40)*
VUR 120 NPTF	**1/2 NPTF**	**50** *(13)*		**75** *(2.95)*	**27** *(1.06)*	**0,31** *(0.70)*
VUR 340 NPTF	**3/4 NPTF**	**90** *(23)*		**88,5** *(3.48)*	**35** *(1.38)*	**0,45** *(1)*
VUR 100 NPTF	**1 NPTF**	**150** *(40)*	**350** *(5000)*	**110** *(4.33)*	**41** *(1.61)*	**0,95** *(2.10)*
VUR 114 NPTF	**1-1/4 NPTF**	**200** *(50)*		**120** *(4.72)*	**55** *(2.16)*	**1,49** *(3.30)*
VUR 112 NPTF	**1-1/2 NPTF**	**300** *(80)*		**138** *(5.43)*	**60** *(2.36)*	**2,40** *(5.30)*
VUR 200 NPTF	**2 NPTF**	**430** *(110)*			**75** *(2.95)*	**3** *(6.60)*

Codice ordinazione
Ordering code

VUR-X-NPTF-Y-K

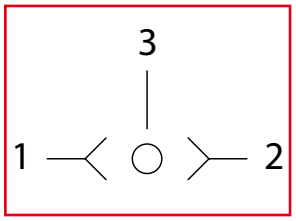
X	Dimensione / *Size*
140	1/4 NPTF
380	3/8 NPTF
120	1/2 NPTF
340	3/4 NPTF
100	1 NPTF
114	1 - 1/4 NPTF
112	1 - 1/2 NPTF
200	2 NPTF

Y	Tenuta / *Sealing*
SP	**Tenuta a cono** *Poppet sealing*

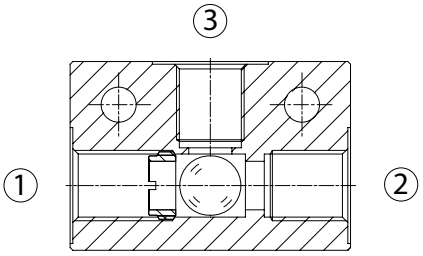
K	Molla / *Spring*
1	**1 bar Standard**
3	**3 bar**
6	**6 bar**

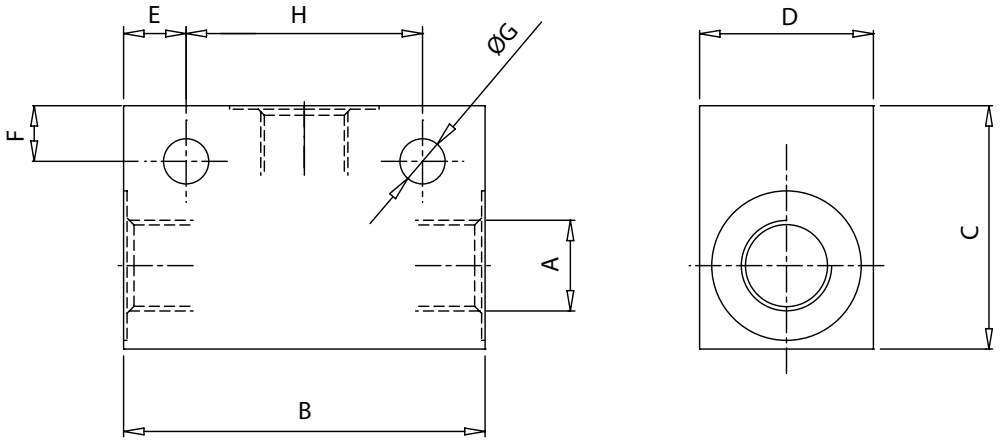
VUSF

Valvole selettrici
Load shuttle-ball valves

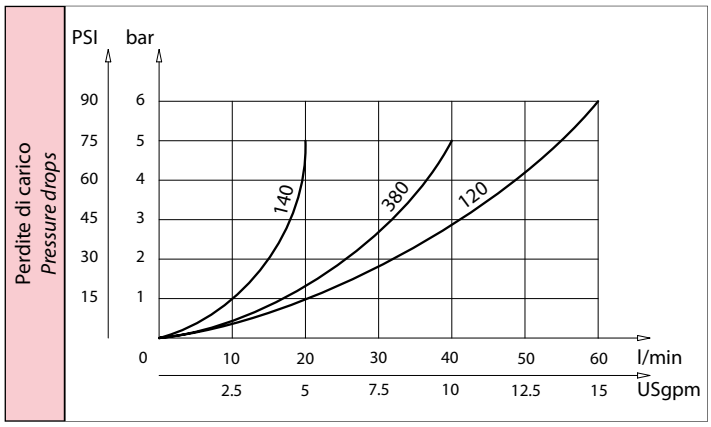


Dati tecnici *Technical data*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*
Classe di contaminazione *Filtration*	ISO code 16/13 *SAE class 4 or better*
Temperatura fluido *Fluid temperature*	-20°C +80°C *-4°F + 176°F*
Temperatura ambiente *Ambient temperature*	-20°C +50°C *-4°F +122°F*





mm
(Inches)

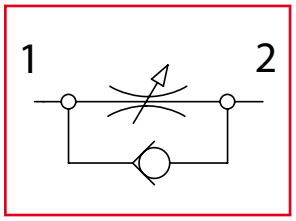


Caratteristiche tecniche *Technical performances*											
Codice *Code*	A	Portata Max *Max flow* l/min - *USgpm*	Pressione Max *Max pressure* bar/*PSI*	B	C	D	E	F	G	H	Peso approssimativo *Approx weight* Kg / *lb*
VUSF 140	**BSPP 1/4**	**20** *(5)*	**350** *(5000)*	**52** *(2.047)*	**35** *(1.38)*	**25** *(0.98)*	**9** *(0.35)*	**8** *(0.31)*	**6,5** *(0.26)*	**34** *(1.34)*	**0,29** *(0.65)*
VUSF 380	**BSPP 3/8**	**40** *(10)*		**60** *(2.362)*	**40** *(1.57)*		**8** *(0.31)*			**44** *(1.73)*	**0,35** *(0.80)*
VUSF 120	**BSPP 1/2**	**60** *(15)*		**70** *(2.756)*	**50** *(1.97)*	**30** *(1.18)*	**10** *(0.39)*	**10** *(1.38)*	**8,5** *(0.33)*	**50** *(1.97)*	**0,65** *(0.15)*

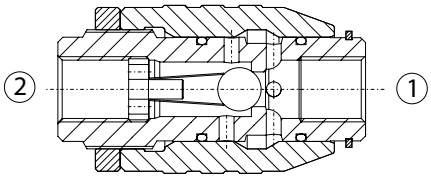
Codice ordinazione *Ordering code*	
VUSF-X-N	
X	Dimensione / *Size*
140	**BSPP 1/4**
380	**BSPP 3/8**
120	**BSPP 1/2**

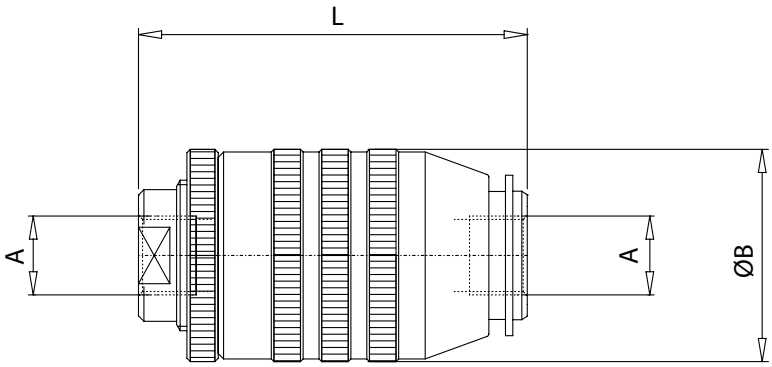
VURF

Valvole di controllo flusso unidirezionale
Unidirectional flow control valves



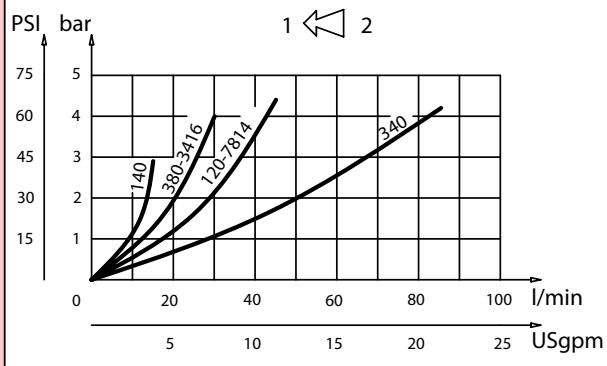
Dati tecnici *Technical data*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*
Classe di contaminazione *Filtration*	ISO code 16/13 *SAE class 4 or better*
Temperatura fluido *Fluid temperature*	-20°C +80°C *-4°F + 176°F*
Temperatura ambiente *Ambient temperature*	-20°C +50°C *-4°F +122°F*

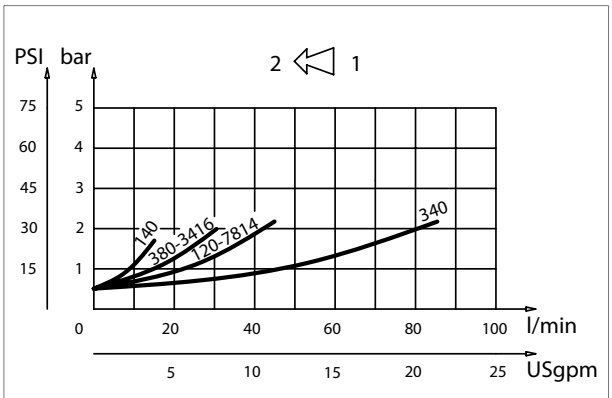




mm
(Inches)

Perdite di carico
Pressure drops



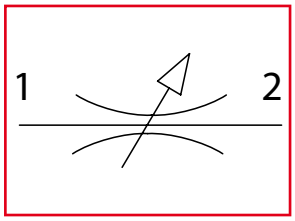


Caratteristiche tecniche *Technical performances*						
Codice *Code*	A	Portata Max *Max flow* l/min - *USgpm*	Pressione Max *Max pressure* bar/*PSI*	B	L	Peso approssimativo *Approx weight* Kg / *lb*
VURF 140	**BSPP 1/4**	**15** *(4)*	**350** *(5000)*	**34** *(1.34)*	**62** *(2.44)*	**0,23** *(0.50)*
VURF 380	**BSPP 3/8**	**30** *(8)*		**39** *(1.54)*	**73** *(2.87)*	**0,42** *(0.93)*
VURF 120	**BSPP 1/2**	**45** *(12)*		**44** *(1.73)*	**83** *(3.27)*	**0,66** *(1.45)*
VURF 340	**BSPP 3/4**	**85** *(22)*	**300** *(4350)*	**54** *(2.13)*	**102** *(4.02)*	**1,12** *(2.5)*
VURF 100	**BSPP 1**	**150** *(40)*	**250** *(3600)*	**65** *(2.56)*	**124,5** *(4.90)*	**1,6** *(3.5)*
VURF 3416	**3/4 - 16 UNF**	**30** *(8)*	**350** *(5000)*	**39** *(1.54)*	**73** *(2.87)*	**0,42** *(0.93)*
VURF 7814	**7/8 - 14 UNF**	**45** *(12)*		**44** *(1.73)*	**83** *(3.27)*	**0,66** *(1.45)*

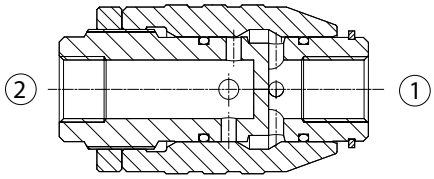
Codice ordinazione *Ordering code*	
VURF-X	
X	Dimensione / *Size*
140	**BSPP 1/4**
380	**BSPP 3/8**
120	**BSPP 1/2**
340	**BSPP 34/**
100	**BSPP 1**
3416	**3/4 - 16 UNF**
7814	**7/8 - 14 UNF**

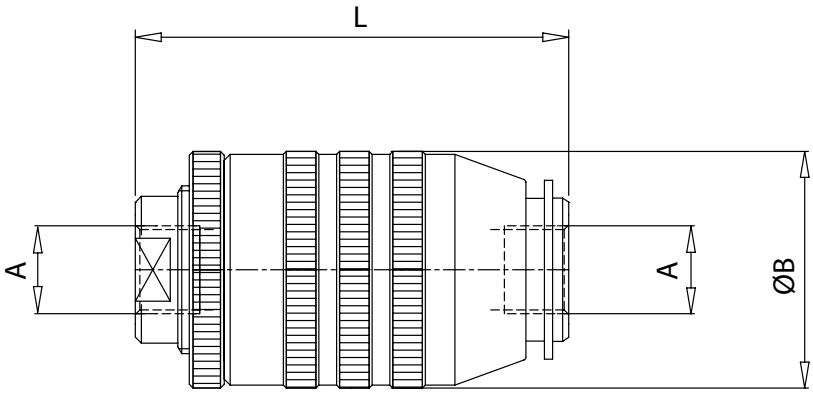
VBRF

Valvole di controllo flusso bidirezionali
Bidirectional flow control valves

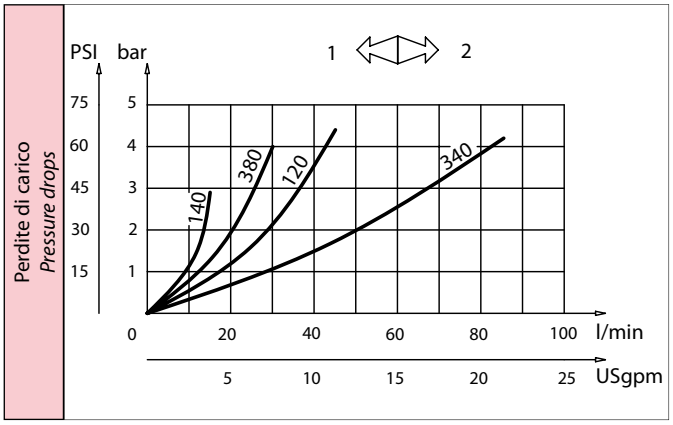


Dati tecnici *Technical data*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*
Classe di contaminazione *Filtration*	ISO code 16/13 *SAE class 4 or better*
Temperatura fluido *Fluid temperature*	-20°C +80°C *-4°F + 176°F*
Temperatura ambiente *Ambient temperature*	-20°C +50°C *-4°F +122°F*





mm
(Inches)

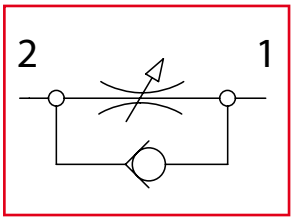


Caratteristiche tecniche *Technical performances*						
Codice *Code*	A	Portata Max *Max flow* l/min - *USgpm*	Pressione Max *Max pressure* bar/*PSI*	B	L	Peso approssimativo *Approx weight* Kg / *lb*
VBRF140	**BSPP 1/4**	**15** *(4)*	**350** *(5000)*	**34** *(1.34)*	**62** *(2.44)*	**0,24** *(0.53)*
VBRF380	**BSPP 3/8**	**30** *(8)*		**39** *(1.53)*	**73** *(2.87)*	**0,41** *(0.90)*
VBRF120	**BSPP 1/2**	**45** *(12)*		**44** *(1.73)*	**83** *(3.27)*	**0,62** *(1.35)*
VBRF340	**BSPP 3/4**	**85** *(22)*	**300** *(4350)*	**54** *(2.13)*	**102** *(4.02)*	**1,1** *(2.5)*
VBRF100	**BSPP 1**	**150** *(40)*	**250** *(3600)*	**65** *(2.56)*	**124,5** *(4.90)*	**1,6** *(3.5)*

Codice ordinazione *Ordering code*	
VBRF-X	
X	Dimensione / *Size*
140	**BSPP 1/4**
380	**BSPP 3/8**
120	**BSPP 1/2**
340	**BSPP 3/4**
100	**BSPP 1**

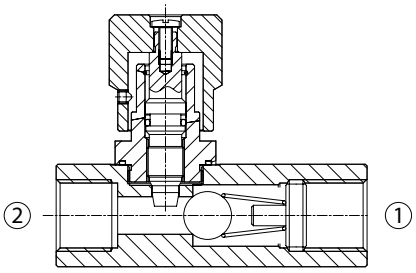
STU-BSP

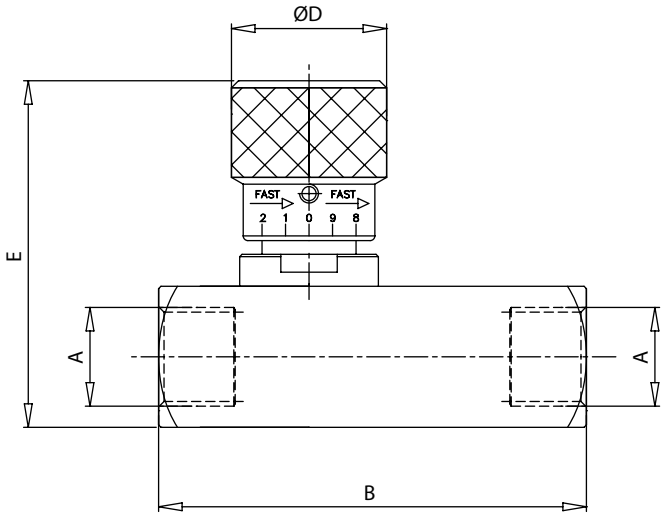
Valvole di controllo flusso unidirezionali
Unidirectional flow control valves

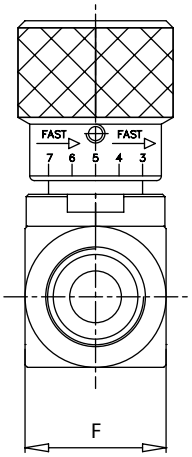


Dati tecnici
Technical data

Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*
Classe di contaminazione *Filtration*	ISO code 16/13 *SAE class 4 or better*
Temperatura fluido *Fluid temperature*	-20°C +80°C *-4°F + 176°F*
Temperatura ambiente *Ambient temperature*	-20°C +50°C *-4°F +122°F*

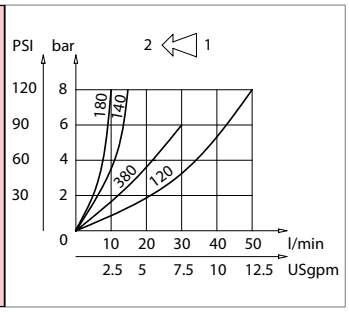


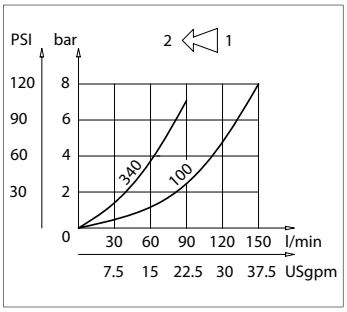


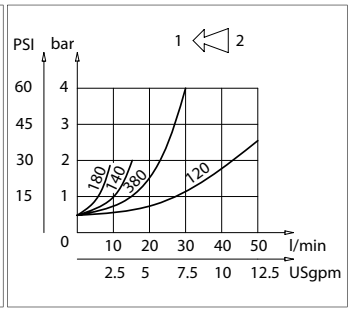


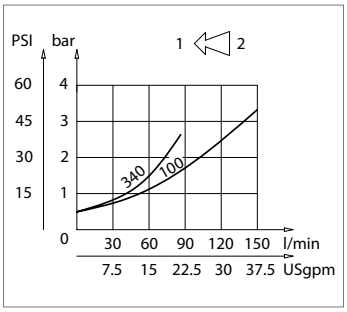
mm
(Inches)

Perdite di carico
Pressure drops









Caratteristiche tecniche
Technical performances

Codice *Code*	A	Portata Max *Max flow* l/min - *USgpm*	Pressione Max *Max pressure* bar/*PSI*	B	D	E	F	Peso approssimativo *Approx weight* Kg / *lb*
STU180	**BSPP 1/8**	**10** *(2.5)*	**400** *(5800)*	**59** *(2.32)*	**20** *(0.79)*	**53** *(2.08)*	**20** *(0.79)*	**0,20** *(0.45)*
STU140	**BSPP 1/4**	**15** *(4)*		**66** *(2.60)*	**30** *(1.18)*	**68** *(2.68)*	**25** *(0.98)*	**0,34** *(0.75)*
STU380	**BSPP 3/8**	**30** *(8)*		**77** *(3.03)*				**0,36** *(0.80)*
STU120	**BSPP 1/2**	**50** *(13)*		**91** *(3.58)*	**33** *(1.30)*	**72** *(2.83)*	**30** *(1.18)*	**0,60** *(1.3)*
STU340	**BSPP 3/4**	**80** *(20)*		**112,5** *(4.43)*	**42** *(1.65)*	**94** *(3.70)*	**40** *(1.57)*	**1,33** *(3)*
STU100	**BSPP 1**	**150** *(40)*		**141** *(5.55)*		**99** *(3.90)*	**45** *(1.77)*	**1,9** *(4.2)*

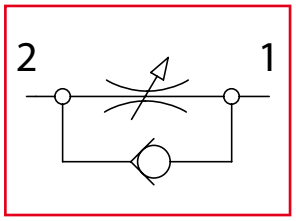
Codice ordinazione
Ordering code

STU-X

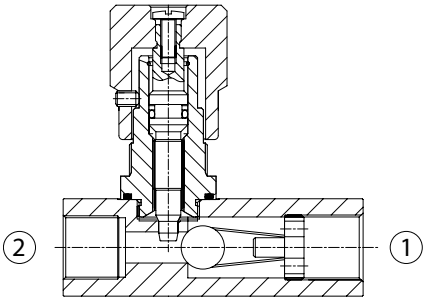
X	Dimensione / *Size*
180	**BSPP 1/8**
140	**BSPP 1/4**
380	**BSPP 3/8**
120	**BSPP 1/2**
340	**BSPP 3/4**
100	**BSPP 1**

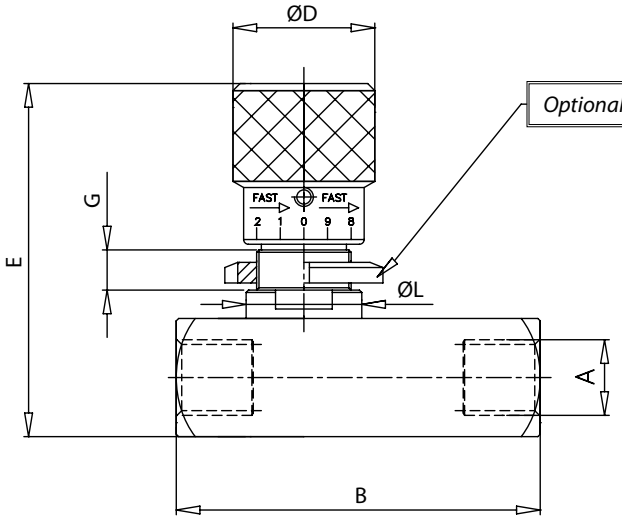
STUF-BSP

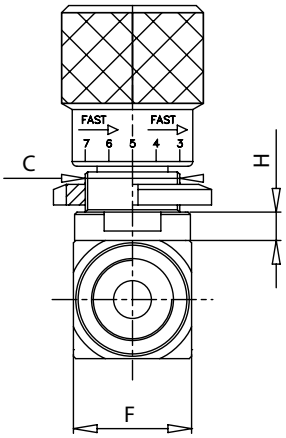
Valvole di controllo flusso unidirezionali
Unidirectional flow control valves



Dati tecnici *Technical data*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*
Classe di contaminazione *Filtration*	ISO code 16/13 *SAE class 4 or better*
Temperatura fluido *Fluid temperature*	-20°C +80°C *-4°F + 176°F*
Temperatura ambiente *Ambient temperature*	-20°C +50°C *-4°F +122°F*

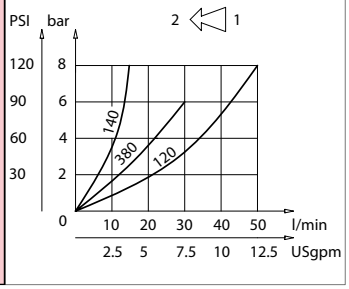


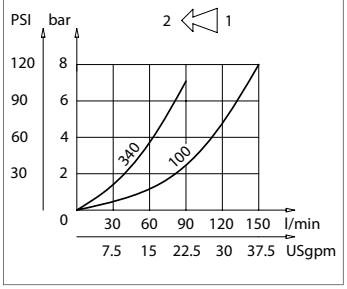


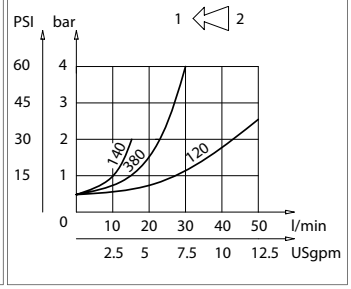


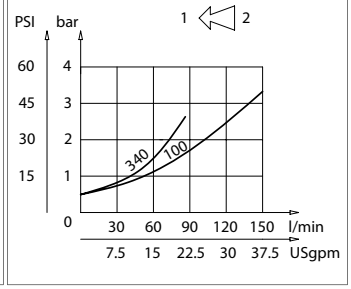
mm
(Inches)

Perdite di carico *Pressure drops*





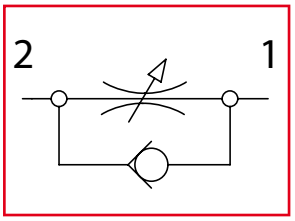




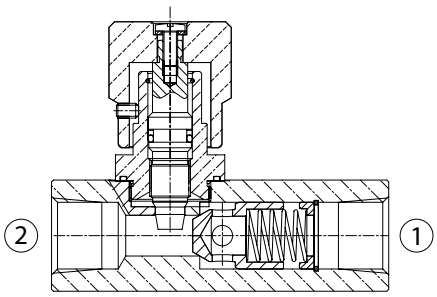
Caratteristiche tecniche *Technical performances*														Codice ordinazione *Ordering code*	
Codice *Code*	A	Portata Max *Max flow* l/min - *USgpm*	Pressione Max *Max pressure* bar/*PSI*	B	C	D	E	F	G	H	L	Optional *Code*	Peso approssimativo *Approx weight* Kg / *lb*	**STUF-X**	
														X	Dimensione / *Size*
STUF140	**BSPP 1/4**	**15** *(4)*	**400** *(5800)*	**66** *(2.60)*	**M20x1**	**30** *(1.18)*	**75** *(2.95)*	**25** *(0.98)*	**7,5** *(0.29)*	**6** *(0.23)*	**24,5** *(0.96)*	**84100022**	**0,38** *(0.84)*	**140**	**BSPP 1/4**
STUF380	**BSPP 3/8**	**30** *(8)*		**77** *(3.03)*									**0,40** *(0.88)*	**380**	**BSPP 3/8**
STUF120	**BSPP 1/2**	**50** *(13)*		**91** *(3.58)*	**M25x1,5**	**33** *(1.30)*	**81** *(3.19)*	**30** *(1.18)*	**9** *(0.35)*	**7** *(0.27)*	**29,5** *(1.16)*	**84100023**	**0,63** *(1.40)*	**120**	**BSPP 1/2**
STUF340	**BSPP 3/4**	**80** *(21)*		**112,5** *(4.43)*	**M35x1,5**	**42** *(1.65)*	**110** *(4.33)*	**40** *(1.57)*	**15,5** *(0.61)*	**8** *(0.31)*	**39,5** *(1.55)*	**84100024**	**1,45** *(3.2)*	**340**	**BSPP 3/4**
STUF100	**BSPP 1**	**150** *(40)*		**141** *(5.55)*			**115** *(4.53)*	**45** *(1.77)*					**2** *(4.4)*	**100**	**BSPP 1**

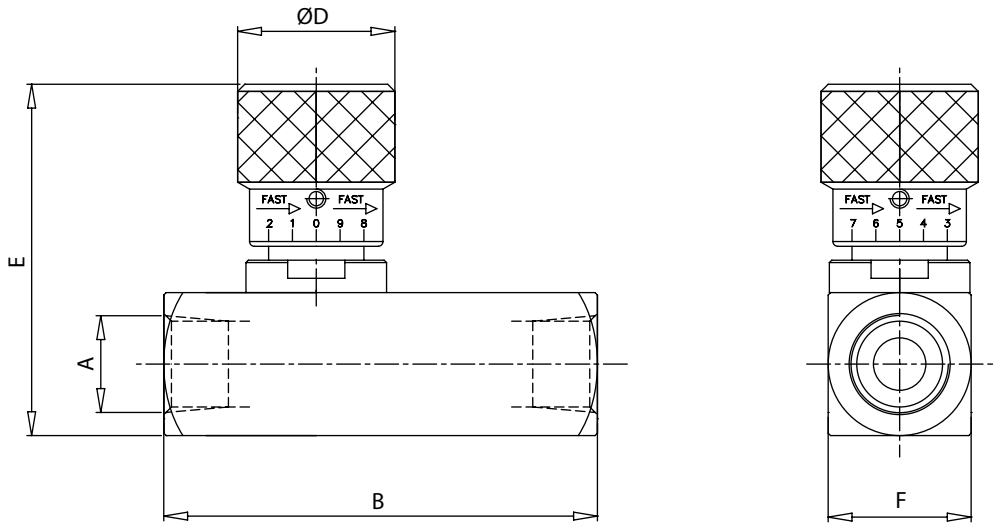
STU-NPTF

Valvole di controllo flusso unidirezionali
Unidirectional flow control valves



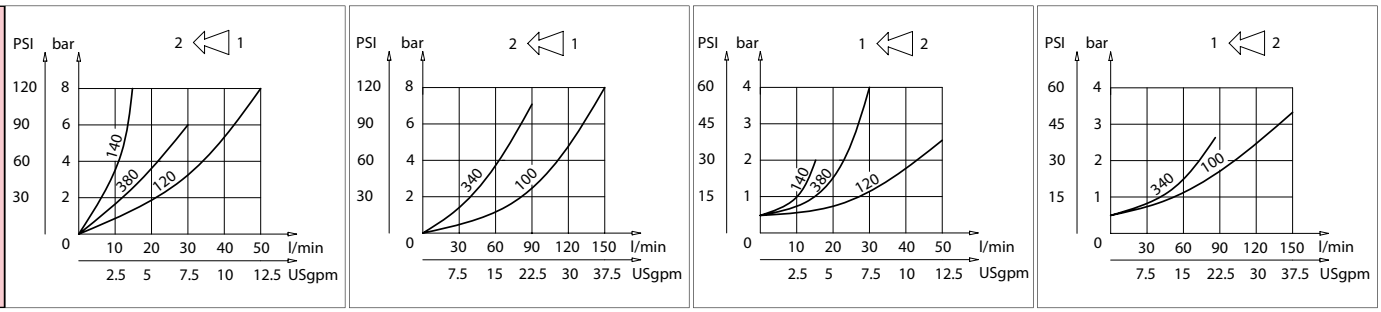
Dati tecnici *Technical data*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*
Classe di contaminazione *Filtration*	ISO code 16/13 *SAE class 4 or better*
Temperatura fluido *Fluid temperature*	-20°C +80°C *-4°F + 176°F*
Temperatura ambiente *Ambient temperature*	-20°C +50°C *-4°F +122°F*





mm
(Inches)

Perdite di carico
Pressure drops

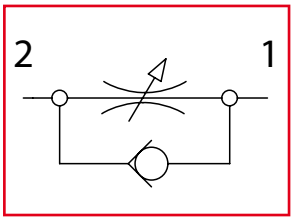


Caratteristiche tecniche *Technical performances*								
Codice *Code*	A	Portata Max *Max flow* l/min - *USgpm*	Pressione Max *Max pressure* bar/*PSI*	B	D	E	F	Peso approssimativo *Approx weight* Kg / *lb*
STU140NPTF	**NPTF 1/4**	**15** *(4)*	**400** *(5800)*	**66** *(2.60)*	**30** *(1.18)*	**68** *(2.68)*	**25** *(0.98)*	**0,37** *(0.75)*
STU380NPTF	**NPTF 3/8**	**30** *(8)*		**77** *(3.03)*				**0,38** *(0.84)*
STU120NPTF	**NPTF 1/2**	**50** *(13)*		**91** *(3.58)*	**33** *(1.30)*	**72** *(2.83)*	**30** *(1.18)*	**0,60** *(1.32)*
STU340NPTF	**NPTF 3/4**	**80** *(21)*		**112,5** *(4.43)*	**42** *(1.65)*	**94** *(3.70)*	**40** *(1.57)*	**1,40** *(3.09)*
STU100NPTF	**NPTF 1**	**150** *(40)*		**141** *(5.55)*		**99** *(3.90)*	**45** *(1.77)*	**2** *(4.41)*

Codice ordinazione *Ordering code*	
STU-X-NPTF	
X	Dimensione / *Size*
140	**NPTF 1/4**
380	**NPTF 3/8**
120	**NPTF 1/2**
340	**NPTF 3/4**
100	**NPTF 1**

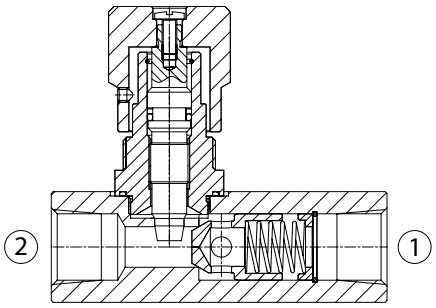
STUF-NPTF

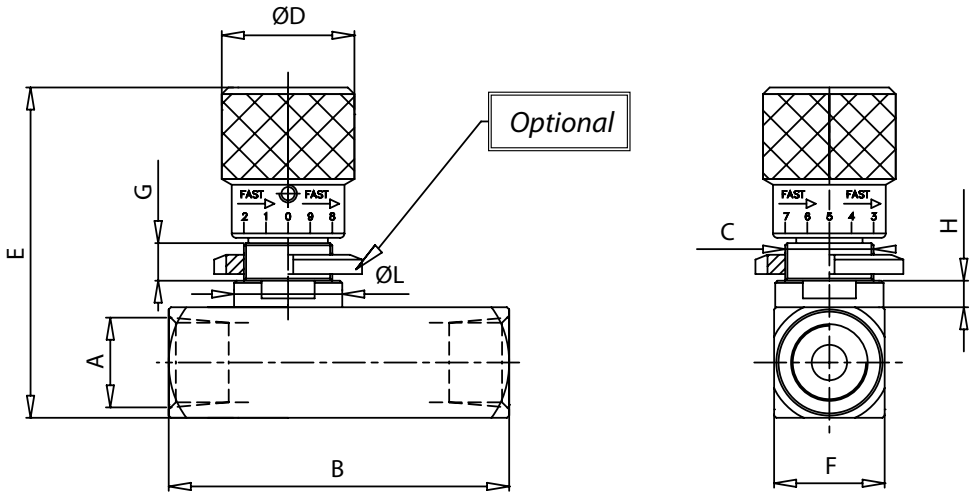
Valvole di controllo flusso unidirezionali
Unidirectional flow control valves



Dati tecnici
Technical data

Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*
Classe di contaminazione *Filtration*	ISO code 16/13 *SAE class 4 or better*
Temperatura fluido *Fluid temperature*	-20°C +80°C *-4°F + 176°F*
Temperatura ambiente *Ambient temperature*	-20°C +50°C *-4°F +122°F*





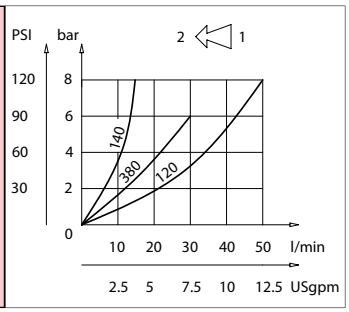
Codice ordinazione
Ordering code

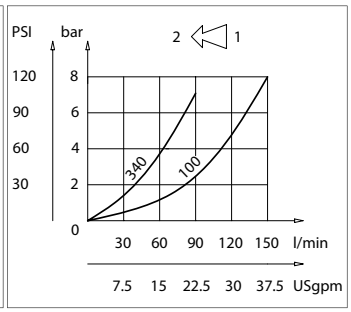
STUF-X-NPTF

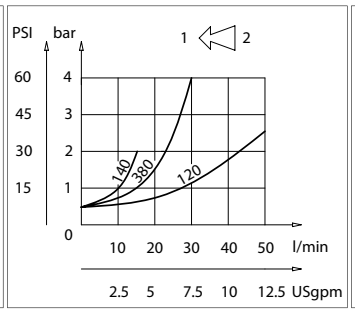
X	Dimensione / *Size*
140	NPTF 1/4
380	NPTF 3/8
120	NPTF 1/2
340	NPTF 3/4
100	NPTF 1

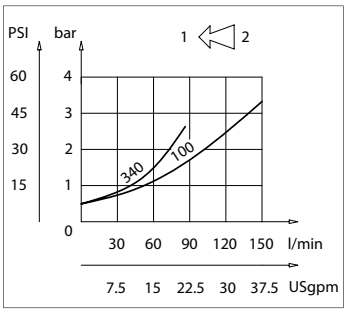
mm
(Inches)

Perdite di carico
Pressure drops







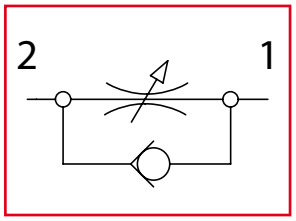


Caratteristiche tecniche
Technical performances

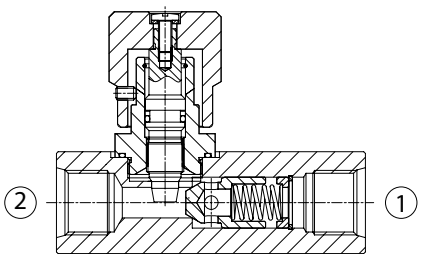
Codice *Code*	A	Portata Max *Max flow* l/min - *USgpm*	Pressione Max *Max pressure* bar/*PSI*	B	C	D	E	F	G	H	L	Optional *Code*	Peso approssimativo *Approx weight* Kg / *lb*
STUF140NPTF	**NPTF 1/4**	**15** *(4)*	**400** *(5800)*	**66** *(2.60)*	**M20x1**	**30** *(1.18)*	**75** *(2.95)*	**25** *(0.98)*	**7,5** *(0.29)*	**6** *(0.23)*	**24,5** *(0.96)*	**84100022**	**0,41** *(0.90)*
STUF380NPTF	**NPTF 3/8**	**30** *(8)*		**77** *(3.03)*									**0,42** *(0.92)*
STUF120NPTF	**NPTF 1/2**	**50** *(13)*		**91** *(3.58)*	**M25x1,5**	**33** *(1.30)*	**81** *(3.19)*	**30** *(1.18)*	**9** *(0.35)*	**7** *(0.27)*	**29,5** *(1.16)*	**84100023**	**0,63** *(1.38)*
STUF340NPTF	**NPTF 3/4**	**80** *(21)*		**112,5** *(4.43)*	**M35x1,5**	**42** *(1.65)*	**110** *(4.33)*	**40** *(1.57)*	**15,5** *(0.61)*	**8** *(0.31)*	**39,5** *(1.55)*	**84100024**	**1,52** *(3.4)*
STUF100NPTF	**NPTF 1**	**150** *(40)*		**141** *(5.55)*			**115** *(4.53)*	**45** *(1.77)*					**2,1** *(4.60)*

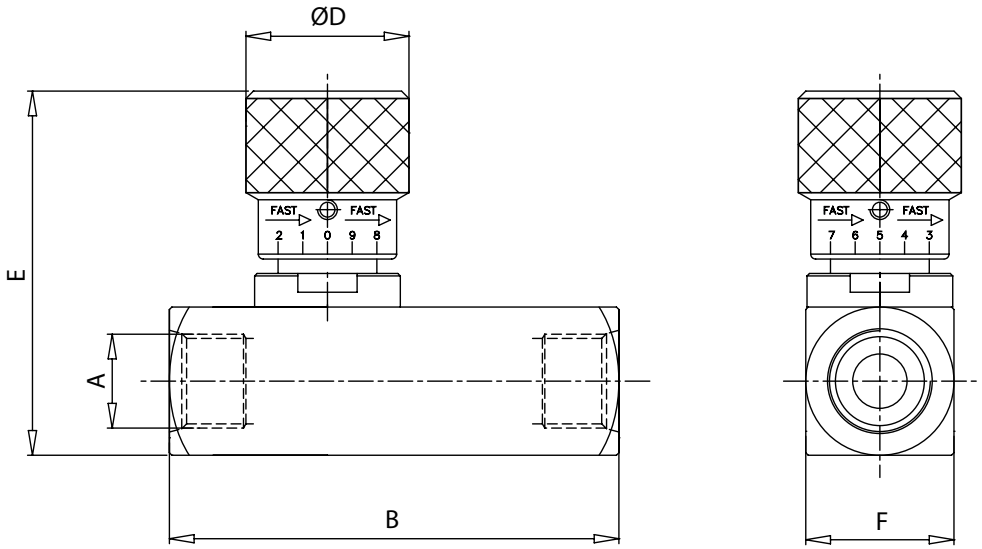
STU-SAE

Valvole di controllo flusso unidirezionali
Unidirectional flow control valves



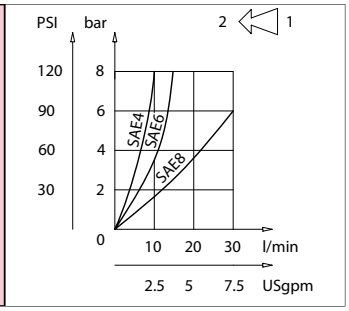
Dati tecnici *Technical data*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*
Classe di contaminazione *Filtration*	ISO code 16/13 *SAE class 4 or better*
Temperatura fluido *Fluid temperature*	-20°C +80°C *-4°F + 176°F*
Temperatura ambiente *Ambient temperature*	-20°C +50°C *-4°F +122°F*

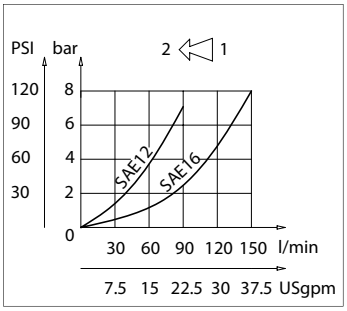


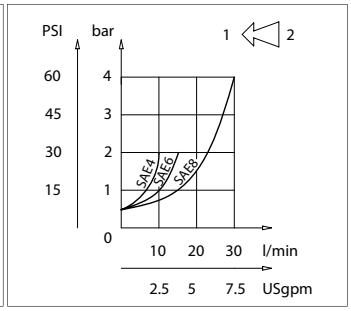


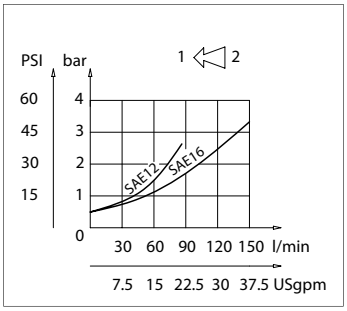
mm
(Inches)

Perdite di carico
Pressure drops







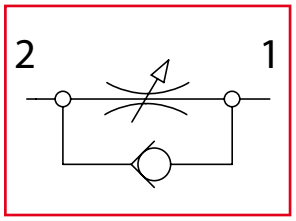


Caratteristiche tecniche *Technical performances*								
Codice *Code*	A	Portata Max *Max flow* l/min - *USgpm*	Pressione Max *Max pressure* bar/*PSI*	B	D	E	F	Peso approssimativo *Approx weight* Kg / *lb*
STU4SAE	**7/16 - 20UNF**	**15** *(4)*	**400** *(5800)*	**66** *(2.60)*	**30** *(1.18)*	**68** *(2.68)*	**25** *(0.98)*	**0,37** *(0.82)*
STU6SAE	**9/16 - 18UNF**	**30** *(8)*		**70,5** *(2.78)*				**0,38** *(0.84)*
STU8SAE	**3/4 - 16UNF**	**50** *(13)*		**91** *(3.58)*	**33** *(1.30)*	**72** *(2.83)*	**30** *(1.18)*	**0,60** *(1.32)*
STU12SAE	**1 - 1/16 - 12UNF**	**80** *(21)*		**112,5** *(4.43)*	**42** *(1.65)*	**94** *(3.70)*	**40** *(1.57)*	**1,28** *(2.80)*
STU16SAE	**1 - 5/16 - 12UNF**	**150** *(40)*		**141** *(5.55)*		**99** *(3.90)*	**45** *(1.77)*	**1,87** *(4.11)*

Codice ordinazione *Ordering code*	
STU-X-SAE	
X	Dimensione / *Size*
4	**7/16 - 20UNF**
6	**9/16 - 18UNF**
8	**3/4 - 16UNF**
12	**1 - 1/16 - 12UNF**
16	**1 - 5/16 - 12UNF**

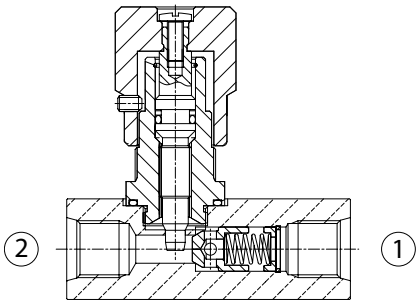
STUF-SAE

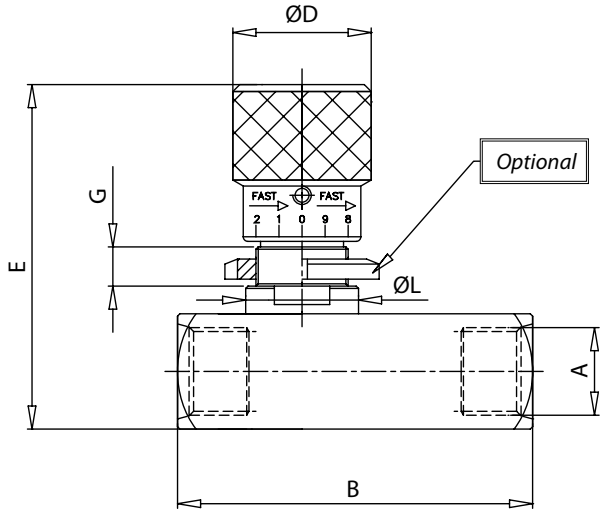
Valvole di controllo flusso unidirezionali
Unidirectional flow control valves

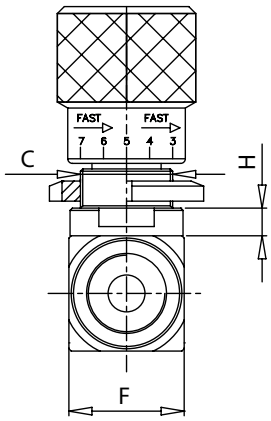


Dati tecnici
Technical data

Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*
Classe di contaminazione *Filtration*	ISO code 16/13 *SAE class 4 or better*
Temperatura fluido *Fluid temperature*	-20°C +80°C *-4°F + 176°F*
Temperatura ambiente *Ambient temperature*	-20°C +50°C *-4°F +122°F*



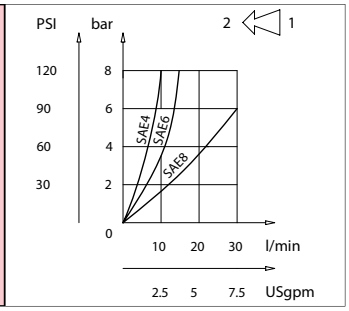


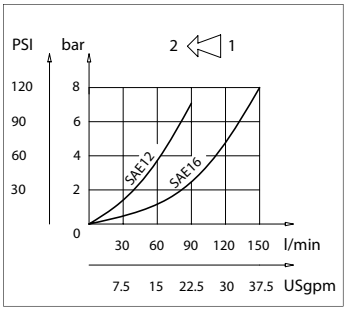


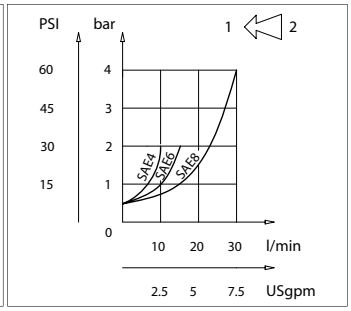
Codice ordinazione *Ordering code*	
STUF-X-SAE	
X	Dimensione / *Size*
4	**7/16 - 20UNF**
6	**9/16 - 18UNF**
8	**3/4 - 16UNF**
12	**1 - 1/16 - 12UNF**
16	**1 - 5/16 - 12UNF**

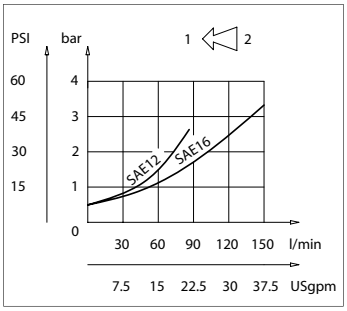
mm
(Inches)

Perdite di carico
Pressure drops







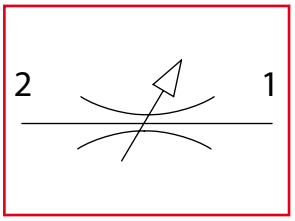


Caratteristiche tecniche
Technical performances

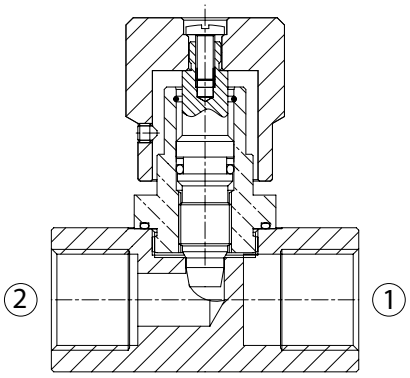
Codice *Code*	A	Portata Max *Max flow* l/min - *USgpm*	Pressione Max *Max pressure* bar/*PSI*	B	C	D	E	F	G	H	L	Optional *Code*	Peso approssimativo *Approx weight* Kg / *lb*
STUF4SAE	**7/16 - 20UNF**	**15** *(4)*	**400** *(5800)*	**66** *(2.60)*	**M20x1**	**30** *(1.18)*	**75** *(2.95)*	**25** *(0.98)*	**7,5** *(0.29)*	**6** *(0.23)*	**24,5** *(0.96)*	**84100022**	**0,41** *(0.90)*
STUF6SAE	**9/16 - 18UNF**	**30** *(8)*		**70,5** *(2.78)*									**0,42** *(0.93)*
STUF8SAE	**3/4 - 16UNF**	**50** *(13)*		**91** *(3.58)*	**M25x1,5**	**33** *(1.30)*	**81** *(3.19)*	**30** *(1.18)*	**9** *(0.35)*	**7** *(0.27)*	**29,5** *(1.16)*	**84100023**	**0,63** *(1.40)*
STUF12SAE	**1 - 1/16 - 12UNF**	**80** *(21)*		**112,5** *(4.43)*	**M35x1,5**	**42** *(1.65)*	**110** *(4.33)*	**40** *(1.57)*	**15,5** *(0.61)*	**8** *(0.31)*	**39,5** *(1.55)*	**84100024**	**1,40** *(3.10)*
STUF16SAE	**1 - 5/16 - 12UNF**	**150** *(40)*		**141** *(5.55)*			**115** *(4.53)*	**45** *(1.77)*					**2** *(4.40)*

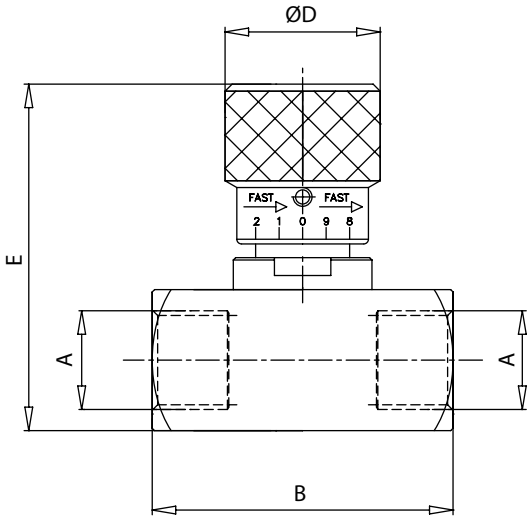
STB-BSP

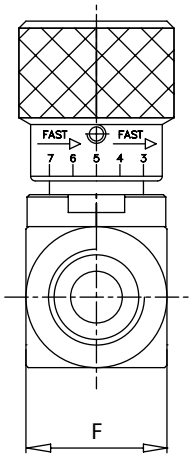
Valvole di controllo flusso bidirezionali
Bidirectional flow control valves



Dati tecnici *Technical data*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*
Classe di contaminazione *Filtration*	ISO code 16/13 *SAE class 4 or better*
Temperatura fluido *Fluid temperature*	-20°C +80°C *-4°F + 176°F*
Temperatura ambiente *Ambient temperature*	-20°C +50°C *-4°F +122°F*

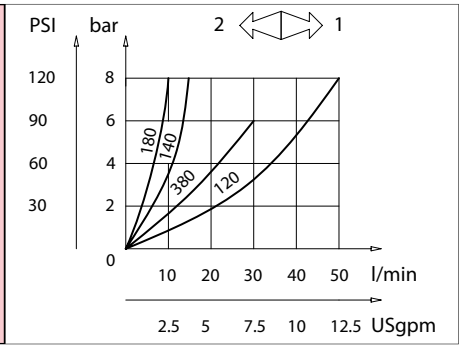


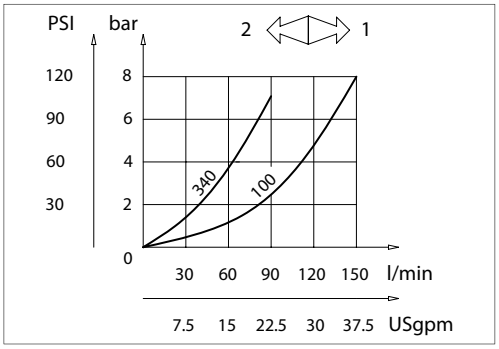




mm
(Inches)

Perdite di carico *Pressure drops*



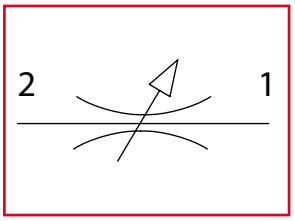


Caratteristiche tecniche *Technical performances*								
Codice *Code*	A	Portata Max *Max flow* l/min - *USgpm*	Pressione Max *Max pressure* bar/*PSI*	B	D	E	F	Peso approssimativo *Approx weight* Kg / *lb*
STB180	**BSPP 1/8**	**10** *(2.5)*	**400** *(5800)*	**48** *(1.89)*	**20** *(0.79)*	**53** *(2.08)*	**20** *(0.79)*	**0,16** *(0.35)*
STB140	**BSPP 1/4**	**15** *(4)*		**54** *(2.13)*	**30** *(1.18)*	**68** *(2.68)*	**25** *(0.98)*	**0,29** *(0.70)*
STB380	**BSPP 3/8**	**30** *(8)*						**0,27** *(0.64)*
STB120	**BSPP 1/2**	**50** *(13)*		**64** *(2.52)*	**33** *(1.30)*	**72** *(2.83)*	**30** *(1.18)*	**0,45** *(1)*
STB340	**BSPP 3/4**	**80** *(20)*		**81** *(3.19)*	**42** *(1.65)*	**94** *(3.70)*	**40** *(1.57)*	**1,02** *(2.25)*
STB100	**BSPP 1**	**150** *(40)*		**102** *(4.02)*		**99** *(3.90)*	**45** *(1.77)*	**1,38** *(3.04)*

Codice ordinazione *Ordering code*	
STB-X	
X	Dimensione / *Size*
180	**BSPP 1/8**
140	**BSPP 1/4**
380	**BSPP 3/8**
120	**BSPP 1/2**
340	**BSPP 3/4**
100	**BSPP 1**

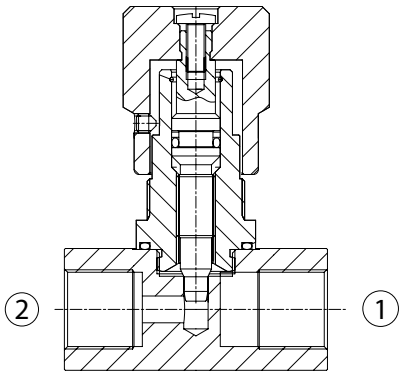
STBF-BSP

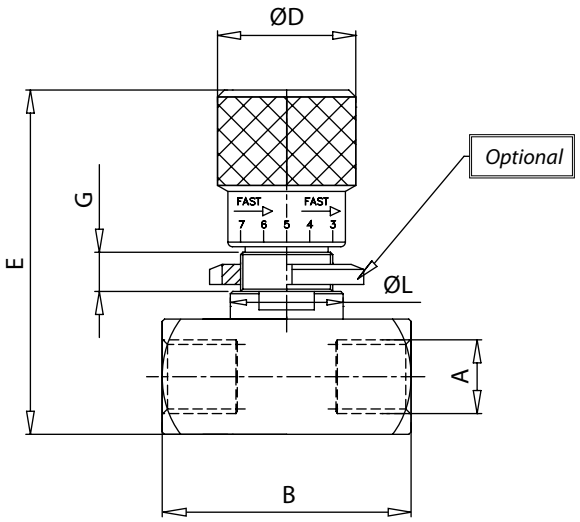
Valvole di controllo flusso bidirezionali
Bidirectional flow control valves

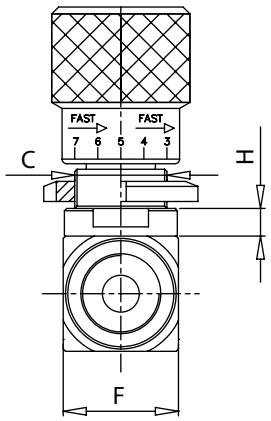


Dati tecnici
Technical data

Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*
Classe di contaminazione *Filtration*	ISO code 16/13 *SAE class 4 or better*
Temperatura fluido *Fluid temperature*	-20°C +80°C *-4°F + 176°F*
Temperatura ambiente *Ambient temperature*	-20°C +50°C *-4°F +122°F*

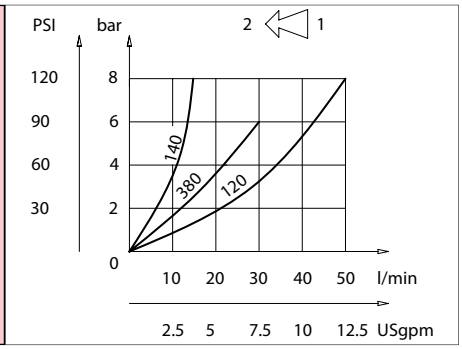


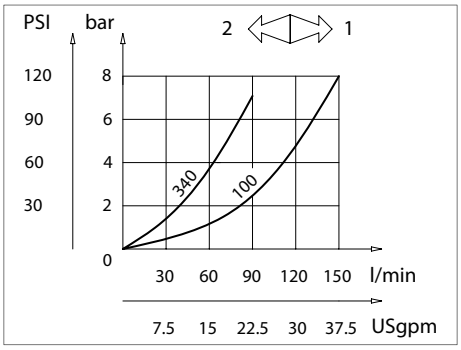




mm
(Inches)

Perdite di carico
Pressure drops





Codice ordinazione
Ordering code

STBF-X

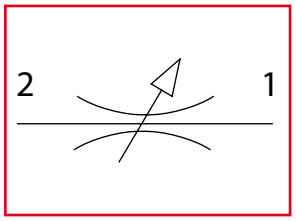
X	Dimensione / *Size*
140	BSPP 1/4
380	BSPP 3/8
120	BSPP 1/2
340	BSPP 3/4
100	BSPP 1

Caratteristiche tecniche
Technical performances

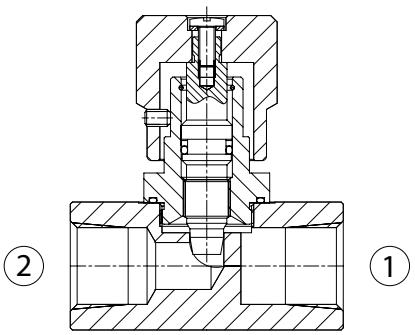
Codice *Code*	A	Portata Max *Max flow* l/min - *USgpm*	Pressione Max *Max pressure* bar/*PSI*	B	C	D	E	F	G	H	L	Optional *Code*	Peso approssimativo *Approx weight* Kg / *lb*
STBF140	**BSPP 1/4**	**15** *(4)*	**400** *(5800)*	**54** *(2.13)*	**M20x1**	**30** *(1.18)*	**75** *(2.95)*	**25** *(0.98)*	**7,5** *(0.29)*	**6** *(0.23)*	**24,5** *(0.96)*	**84100022**	**0,33** *(0.73)*
STBF380	**BSPP 3/8**	**30** *(8)*											**0,31** *(0.69)*
STBF120	**BSPP 1/2**	**50** *(13)*		**64** *(2.52)*	**M25x1,5**	**33** *(1.30)*	**81** *(3.19)*	**30** *(1.18)*	**9** *(0.35)*	**7** *(0.27)*	**29,5** *(1.16)*	**84100023**	**0,48** *(1.06)*
STBF340	**BSPP 3/4**	**80** *(21)*		**81** *(3.19)*	**M35x1,5**	**42** *(1.65)*	**110** *(4.33)*	**40** *(1.57)*	**15,5** *(0.61)*	**8** *(0.31)*	**39,5** *(1.55)*	**84100024**	**1,13** *(2.50)*
STBF100	**BSPP 1**	**150** *(40)*		**102** *(4.02)*			**115** *(4.53)*	**45** *(1.77)*					**1,50** *(3.3)*

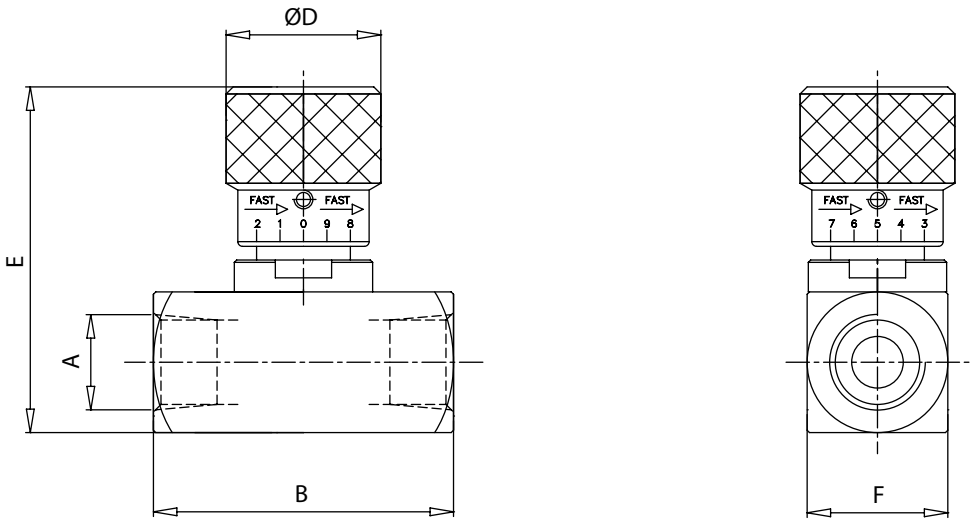
STB-NPTF

Valvole di controllo flusso bidirezionali
Bidirectional flow control valves



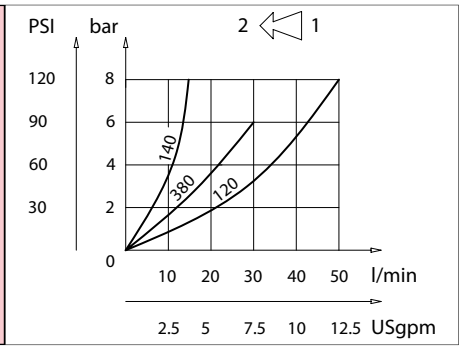
Dati tecnici *Technical data*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*
Classe di contaminazione *Filtration*	ISO code 16/13 *SAE class 4 or better*
Temperatura fluido *Fluid temperature*	-20°C +80°C *-4°F + 176°F*
Temperatura ambiente *Ambient temperature*	-20°C +50°C *-4°F +122°F*

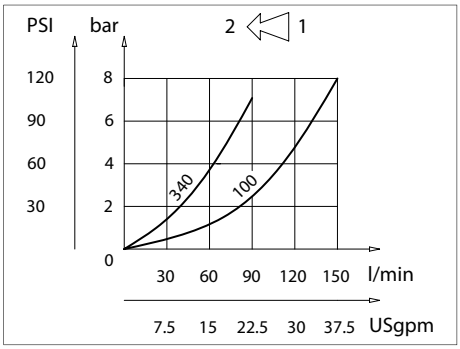




mm
(Inches)

Perdite di carico
Pressure drops





Caratteristiche tecniche
Technical performances

Codice *Code*	A	Portata Max *Max flow* l/min - *USgpm*	Pressione Max *Max pressure* bar/*PSI*	B	D	E	F	Peso approssimativo *Approx weight* Kg / *lb*
STB140NPTF	**NPTF 1/4**	**15** *(4)*	**400** *(5800)*	**54** *(2.13)*	**30** *(1.18)*	**68** *(2.68)*	**25** *(0.98)*	**0,32** *(0.71)*
STB380NPTF	**NPTF 3/8**	**30** *(8)*						**0,30** *(0.66)*
STB120NPTF	**NPTF 1/2**	**50** *(13)*		**64** *(2.52)*	**33** *(1.30)*	**72** *(2.84)*	**30** *(1.18)*	**0,45** *(0.99)*
STB340NPTF	**NPTF 3/4**	**80** *(21)*		**81** *(3.19)*	**42** *(1.65)*	**94** *(3.70)*	**40** *(1.57)*	**1,10** *(2.43)*
STB100NPTF	**NPTF 1**	**150** *(40)*		**102** *(4.02)*		**99** *(3.90)*	**45** *(1.77)*	**1,50** *(3.31)*

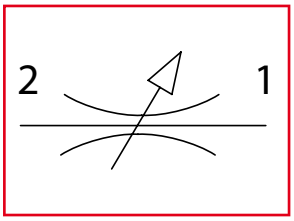
Codice ordinazione
Ordering code

STB-X-NPTF

X	Dimensione / *Size*
140	**BSPP 1/4**
380	**BSPP 3/8**
120	**BSPP 1/2**
340	**BSPP 3/4**
100	**BSPP 1**

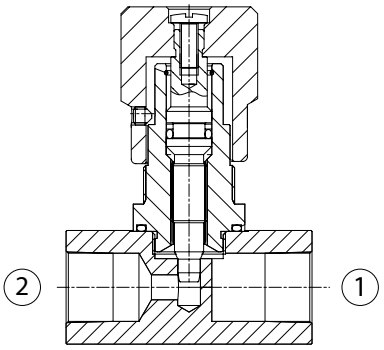
STBF-NPTF

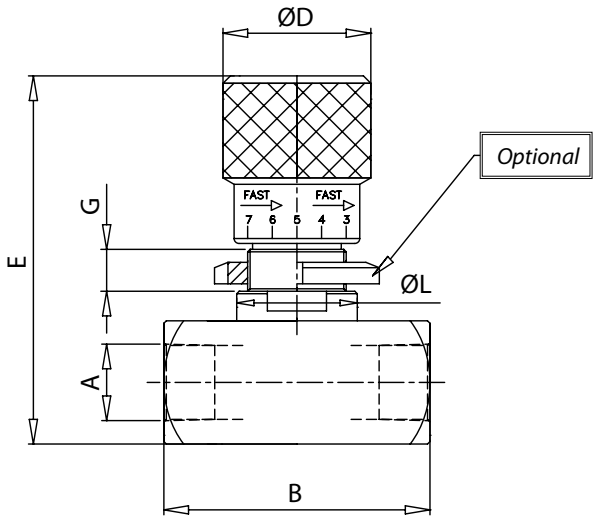
Valvole di controllo flusso bidirezionali
Bidirectional flow control valves

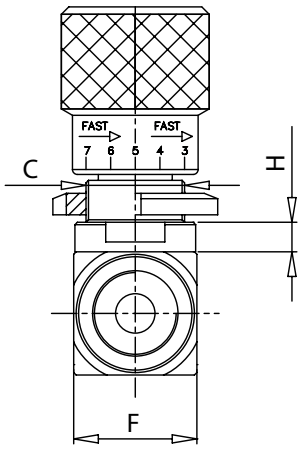


Dati tecnici
Technical data

Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*
Classe di contaminazione *Filtration*	ISO code 16/13 *SAE class 4 or better*
Temperatura fluido *Fluid temperature*	-20°C +80°C *-4°F + 176°F*
Temperatura ambiente *Ambient temperature*	-20°C +50°C *-4°F +122°F*

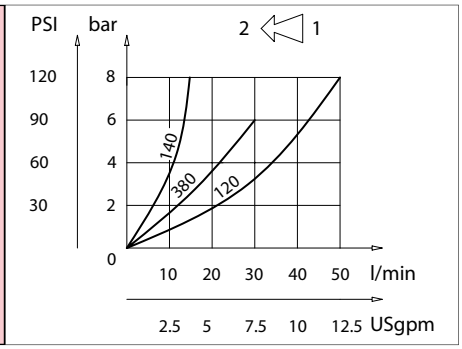


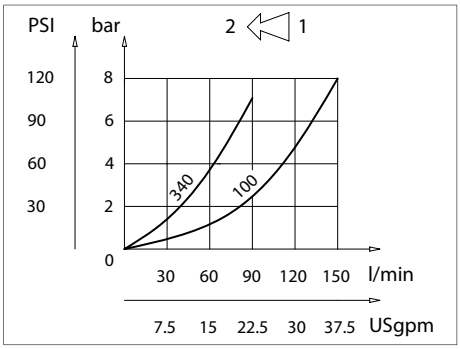




mm
(Inches)

Perdite di carico
Pressure drops





Codice ordinazione
Ordering code

STBF-X-NPTF

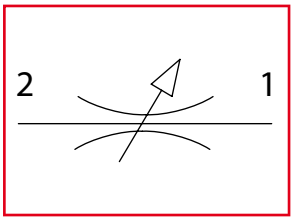
X	Dimensione / *Size*
140	NPTF 1/4
380	NPTF 3/8
120	NPTF 1/2
340	NPTF 3/4
100	NPTF 1

Caratteristiche tecniche
Technical performances

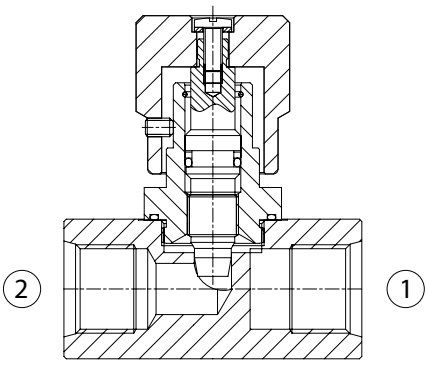
Codice *Code*	A	Portata Max *Max flow* l/min - *USgpm*	Pressione Max *Max pressure* bar/*PSI*	B	C	D	E	F	G	H	L	Optional *Code*	Peso approssimativo *Approx weight* Kg / *lb*
STBF140NPTF	**NPTF 1/4**	**15** *(4)*	**400** *(5800)*	**54** *(2.13)*	**M20x1**	**30** *(1.18)*	**75** *(2.95)*	**25** *(0.98)*	**7,5** *(0.29)*	**6** *(0.23)*	**24,5** *(0.96)*	**84100022**	**0,36** *(0.79)*
STBF380NPTF	**NPTF 3/8**	**30** *(8)*											**0,34** *(0.75)*
STBF120NPTF	**NPTF 1/2**	**50** *(13)*		**64** *(2.52)*	**M25x1,5**	**33** *(1.30)*	**81** *(3.19)*	**30** *(1.18)*	**9** *(0.35)*	**7** *(0.27)*	**29,5** *(1.16)*	**84100023**	**0,48** *(1.06)*
STBF340NPTF	**NPTF 3/4**	**80** *(21)*		**81** *(3.19)*	**M35x1,5**	**42** *(1.65)*	**110** *(4.33)*	**40** *(1.57)*	**15,5** *(0.61)*	**8** *(0.31)*	**39,5** *(1.55)*	**84100024**	**1,22** *(2.70)*
STBF100NPTF	**NPTF 1**	**150** *(40)*		**102** *(4.02)*			**115** *(4.53)*	**45** *(1.77)*					**1,60** *(3.52)*

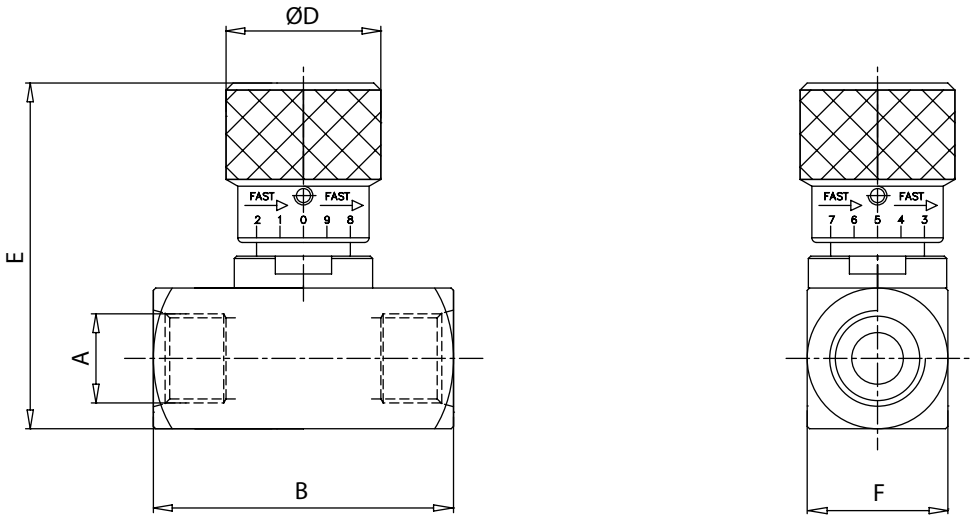
STB-SAE

Valvole di controllo flusso bidirezionali
Bidirectional flow control valves



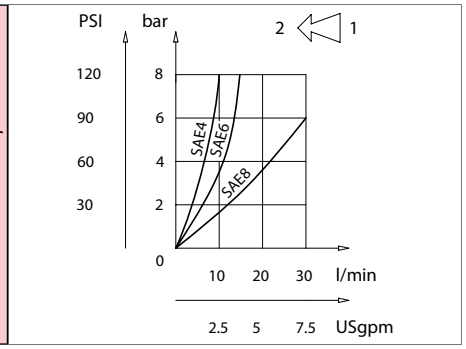
Dati tecnici *Technical data*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*
Classe di contaminazione *Filtration*	ISO code 16/13 *SAE class 4 or better*
Temperatura fluido *Fluid temperature*	-20°C +80°C *-4°F + 176°F*
Temperatura ambiente *Ambient temperature*	-20°C +50°C *-4°F +122°F*

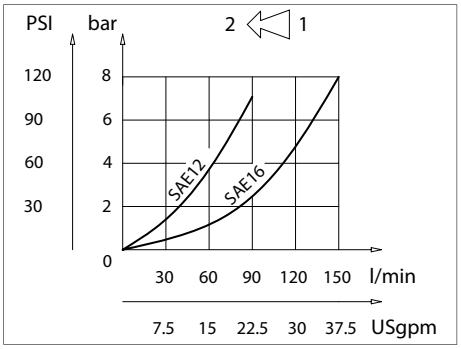




mm
(Inches)

Perdite di carico
Pressure drops



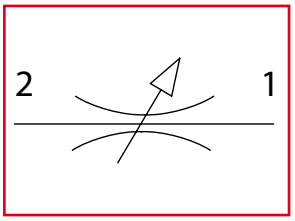


Caratteristiche tecniche *Technical performances*								
Codice *Code*	A	Portata Max *Max flow* l/min - *USgpm*	Pressione Max *Max pressure* bar/*PSI*	B	D	E	F	Peso approssimativo *Approx weight* Kg / *lb*
STB4SAE	**7/16 - 20UNF**	**15** *(4)*	**400** *(5800)*	**54** *(2.13)*	**30** *(1.18)*	**68** *(2.68)*	**25** *(0.98)*	**0,32** *(0.71)*
STB6SAE	**9/16 - 18UNF**	**30** *(28)*						**0,30** *(0.66)*
STB8SAE	**3/4 - 16UNF**	**50** *(13)*		**64** *(2.52)*	**33** *(1.30)*	**72** *(2.83)*	**30** *(1.18)*	**0,45** *(0.99)*
STB12SAE	**1 - 1/16 - 12UNF**	**80** *(21)*		**81** *(3.19)*	**42** *(1.65)*	**94** *(3.70)*	**40** *(1.57)*	**1,10** *(2.43)*
STB16SAE	**1 - 5/16 - 12UNF**	**150** *(40)*		**102** *(4.02)*		**99** *(3.90)*	**45** *(1.77)*	**1,50** *(3.31)*

Codice ordinazione *Ordering code*	
STB-X-SAE	
X	Dimensione / *Size*
4	**7/16 - 20UNF**
6	**9/16 - 18UNF**
8	**3/4 - 16UNF**
12	**1 - 1/16 - 12UNF**
16	**1 - 5/16 - 12UNF**

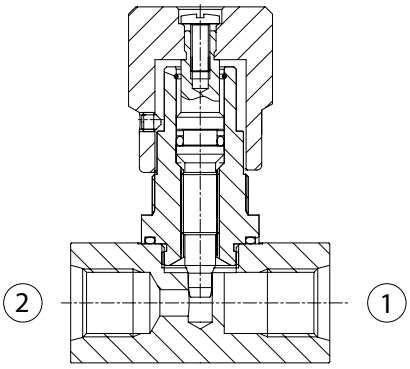
STBF-SAE

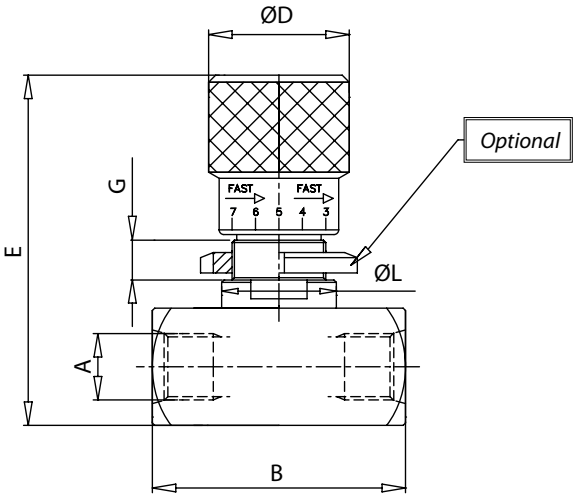
Valvole di controllo flusso bidirezionali
Bidirectional flow control valves

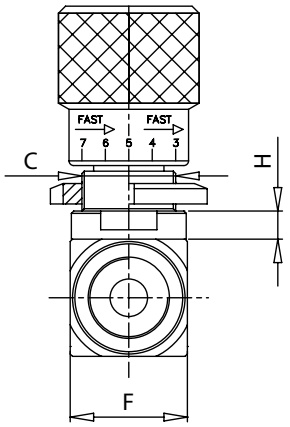


Dati tecnici
Technical data

Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*
Classe di contaminazione *Filtration*	ISO code 16/13 *SAE class 4 or better*
Temperatura fluido *Fluid temperature*	-20°C +80°C *-4°F + 176°F*
Temperatura ambiente *Ambient temperature*	-20°C +50°C *-4°F +122°F*

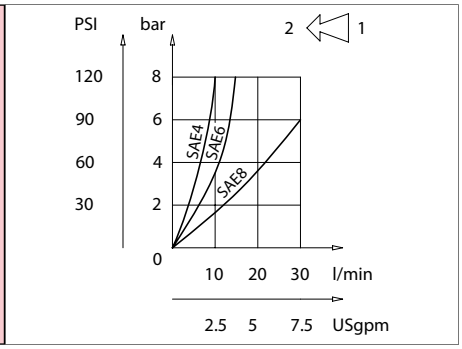


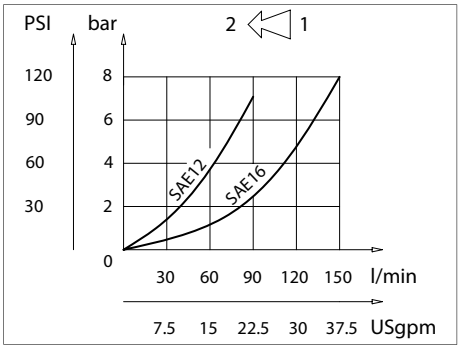




mm
(Inches)

Perdite di carico
Pressure drops





Codice ordinazione
Ordering code

STBF-X-SAE

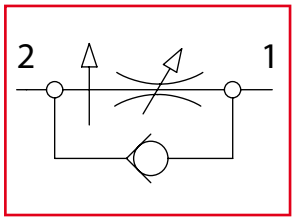
X	Dimensione / *Size*
4	7/16 - 20UNF
6	9/16 - 18UNF
8	3/4 - 16UNF
12	1 - 1/16 - 12UNF
16	1 - 5/16 - 12UNF

Caratteristiche tecniche
Technical performances

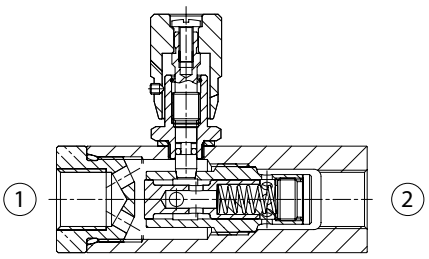
Codice *Code*	A	Portata Max *Max flow* l/min - *USgpm*	Pressione Max *Max pressure* bar/*PSI*	B	C	D	E	F	G	H	L	Optional *Code*	Peso approssimativo *Approx weight* Kg / *lb*
STBF4SAE	**7/16 - 20UNF**	**15** *(4)*	**400** *(5800)*	**54** *(2.13)*	**M20x1**	**30** *(1.18)*	**75** *(2.95)*	**25** *(0.98)*	**7,5** *(0.29)*	**6** *(0.23)*	**24,5** *(0.96)*	**84100022**	**0,36** *(0.79)*
STBF6SAE	**9/16 - 18UNF**	**30** *(28)*											**0,34** *(0.75)*
STBF8SAE	**3/4 - 16UNF**	**50** *(13)*		**64** *(2.52)*	**M25x1,5**	**33** *(1.30)*	**81** *(3.19)*	**30** *(1.18)*	**9** *(0.35)*	**7** *(0.27)*	**29,5** *(1.16)*	**84100023**	**0,48** *(1.05)*
STBF12SAE	**1 - 1/16 - 12UNF**	**80** *(21)*		**81** *(3.19)*	**M35x1,5**	**42** *(1.65)*	**110** *(4.33)*	**40** *(1.57)*	**15,5** *(0.61)*	**8** *(0.31)*	**39,5** *(1.55)*	**84100024**	**1,22** *(2.70)*
STBF16SAE	**1 - 5/16 - 12UNF**	**150** *(40)*		**102** *(4.02)*			**115** *(4.53)*	**45** *(1.77)*					**1,60** *(3.50)*

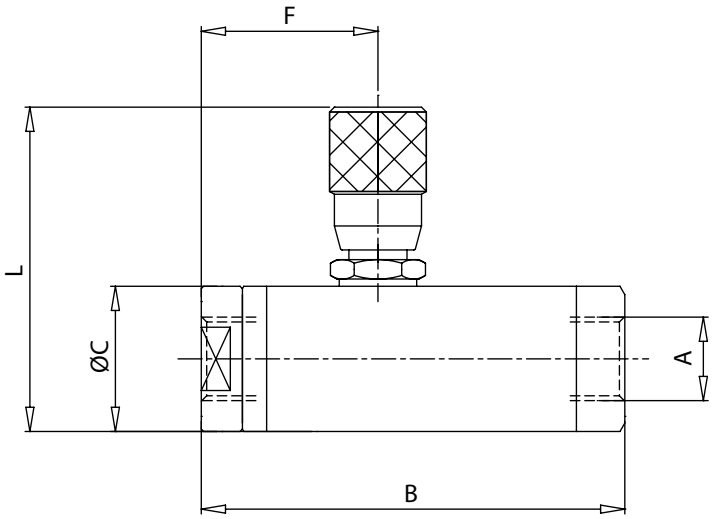
VRC

Valvole per controllo flusso compensate
Compensated flow control valves



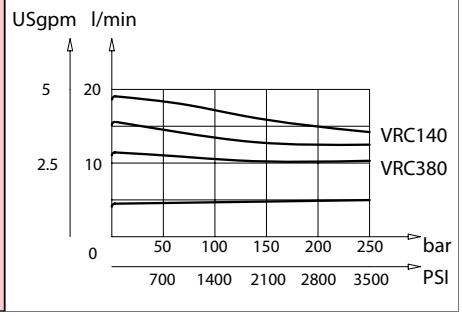
Dati tecnici *Technical data*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*
Classe di contaminazione *Filtration*	ISO code 16/13 *SAE class 4 or better*
Temperatura fluido *Fluid temperature*	-20°C +80°C *-4°F + 176°F*
Temperatura ambiente *Ambient temperature*	-20°C +50°C *-4°F +122°F*

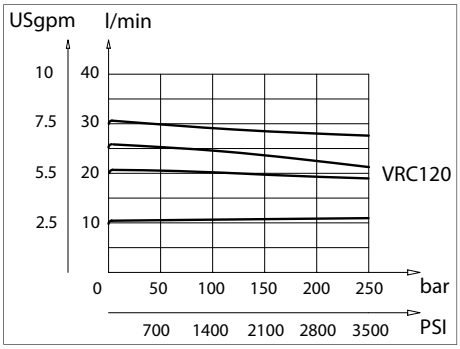


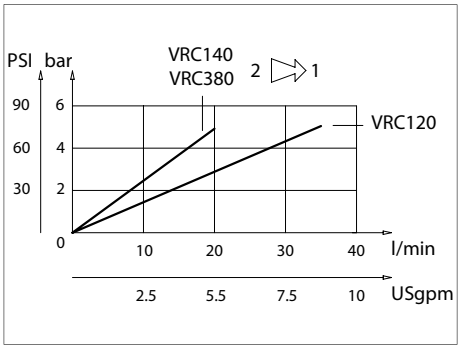


mm
(Inches)

Perdite di carico
Pressure drops





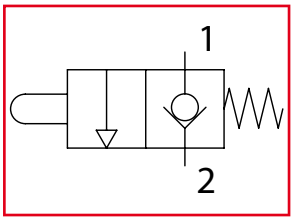


Caratteristiche tecniche *Technical performances*								
Codice *Code*	A	Portata Max *Max flow* l/min - *USgpm*	Pressione Max *Max pressure* bar/*PSI*	B	C	F	L	Peso approssimativo *Approx weight* Kg / *lb*
VRC140	**BSPP 1/4**	**10** *(2.5)*	**250** *(3600)*	**88** *(3.46)*	**27** *(1.06)*	**51** *(2)*	**52** *(2.05)*	**0,49** *(1.08)*
VRC380	**BSPP 3/8**	**18** *(4.7)*						**0,48** *(1.05)*
VRC120	**BSPP 1/2**	**33** *(8.7)*		**108** *(4.25)*	**36** *(1.42)*	**61** *(2.40)*	**57** *(2.25)*	**0,72** *(1.58)*

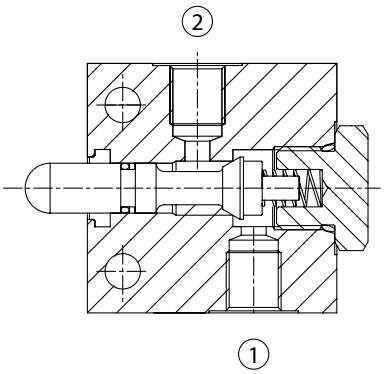
Codice ordinazione *Ordering code*	
VRC-X	
X	Dimensione / *Size*
140	**BSPP 1/4**
380	**BSPP 3/8**
120	**BSPP 1/2**

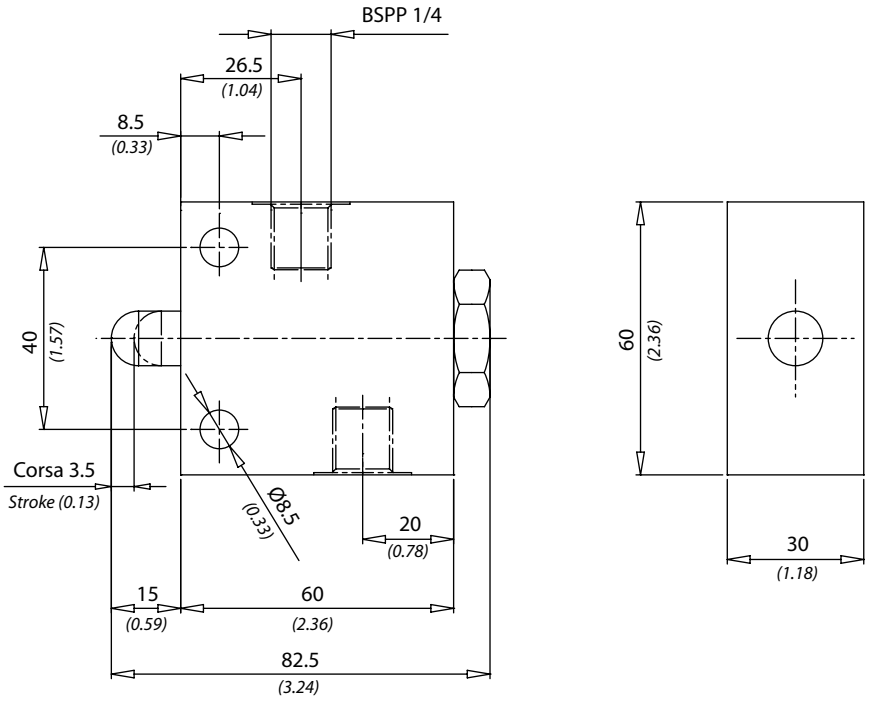
FCM 140

Valvole di fine corsa
End-stroke valves

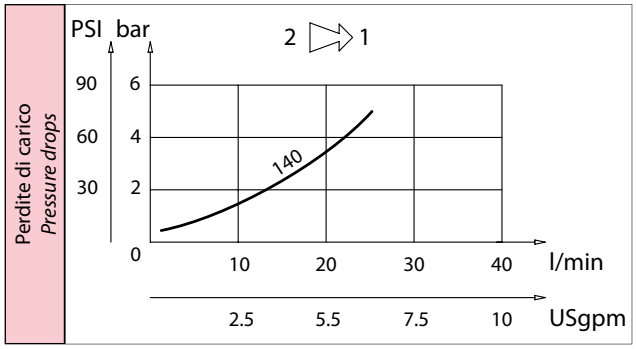


Dati tecnici *Technical data*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*
Classe di contaminazione *Filtration*	ISO code 16/13 *SAE class 4 or better*
Temperatura fluido *Fluid temperature*	-20°C +80°C *-4°F + 176°F*
Temperatura ambiente *Ambient temperature*	-20°C +50°C *-4°F +122°F*





mm
(Inches)

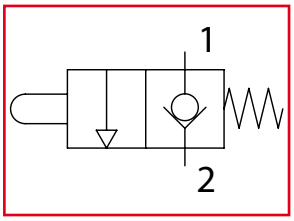


Caratteristiche tecniche *Technical performances*			
Codice *Code*	**Portata Max** ***Max flow*** **l/min - *USgpm***	**Pressione Max** ***Max pressure*** **bar/*PSI***	Peso approssimativo *Approx weight* Kg / *lb*
FCM140	**25** *(6.5)*	**350** *(5000)*	**0,80** *(1.80)*

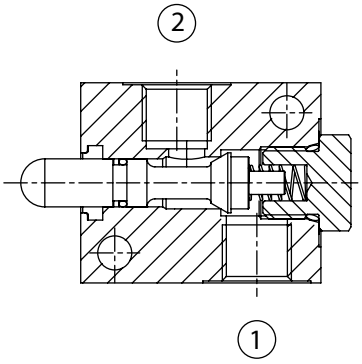
Codice ordinazione *Ordering code*
FCM140

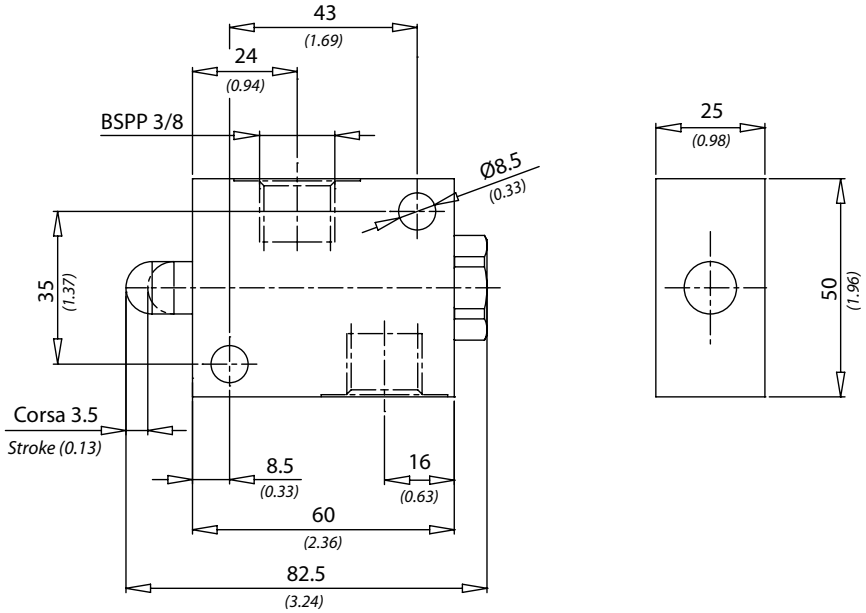
FCM 380

Valvole di fine corsa
End-stroke valves

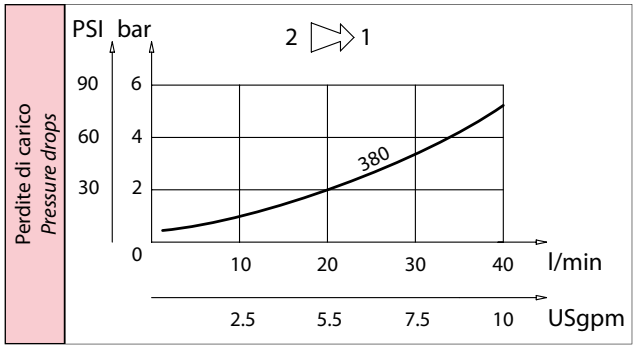


Dati tecnici *Technical data*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*
Classe di contaminazione *Filtration*	ISO code 16/13 *SAE class 4 or better*
Temperatura fluido *Fluid temperature*	-20°C +80°C *-4°F + 176°F*
Temperatura ambiente *Ambient temperature*	-20°C +50°C *-4°F +122°F*





mm
(Inches)

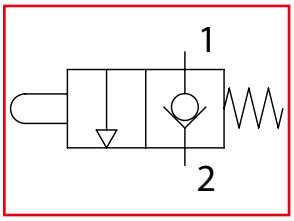


Caratteristiche tecniche *Technical performances*			
Codice *Code*	**Portata Max** ***Max flow*** **l/min - *USgpm***	**Pressione Max** ***Max pressure*** **bar/*PSI***	Peso approssimativo *Approx weight* Kg / *lb*
FCM380N	**40** *(10.5)*	**350** *(5000)*	**0,50** *(1.10)*

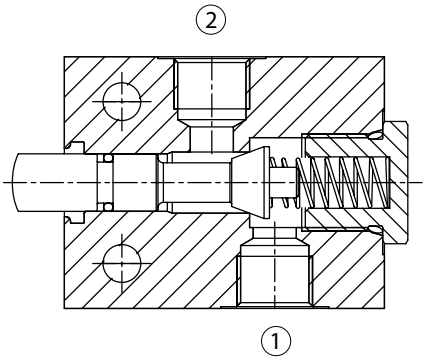
Codice ordinazione *Ordering code*
FCM380N

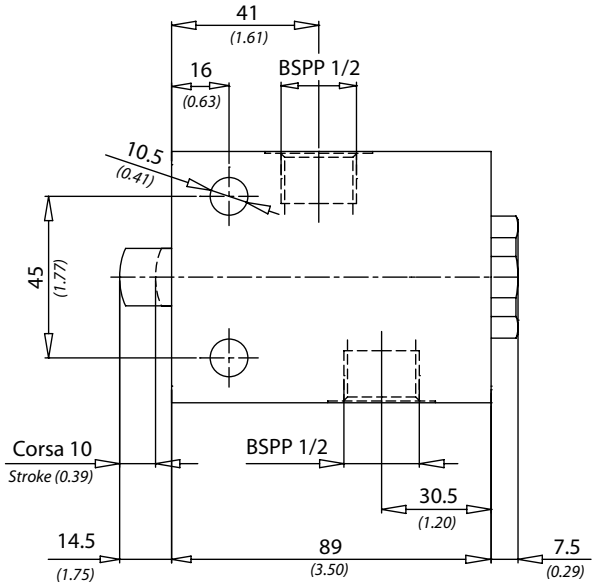
FCM 120

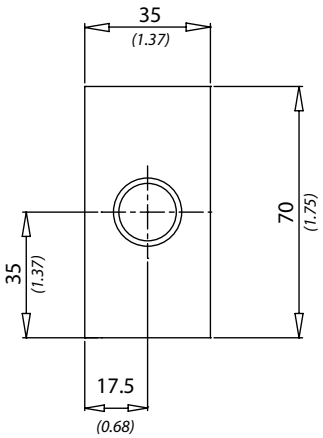
Valvole di fine corsa
End-stroke valves



Dati tecnici *Technical data*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*
Classe di contaminazione *Filtration*	ISO code 16/13 *SAE class 4 or better*
Temperatura fluido *Fluid temperature*	-20°C +80°C *-4°F + 176°F*
Temperatura ambiente *Ambient temperature*	-20°C +50°C *-4°F +122°F*

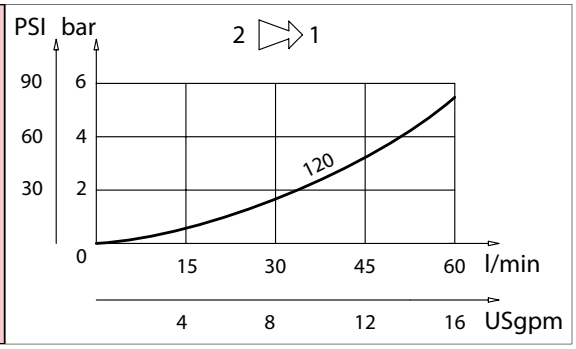






[mm / (Inches)]

Perdite di carico
Pressure drops

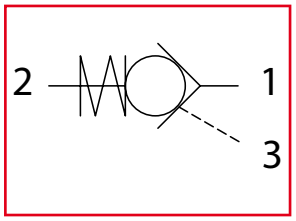


Caratteristiche tecniche *Technical performances*			
Codice *Code*	**Portata Max** ***Max flow*** **l/min - *USgpm***	**Pressione Max** ***Max pressure*** **bar/*PSI***	Peso approssimativo *Approx weight* Kg / *lb*
FCM120	**60** *(16)*	**300** *(4350)*	**1,50** *(3.3)*

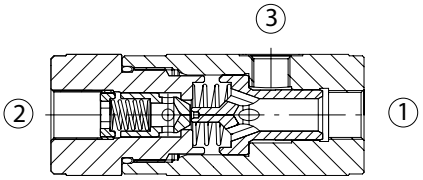
Codice ordinazione *Ordering code*
FCM120

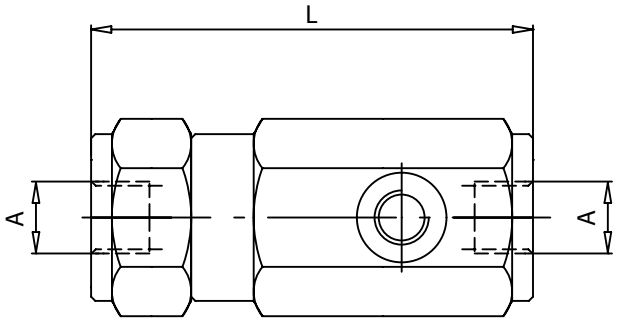
VRPE

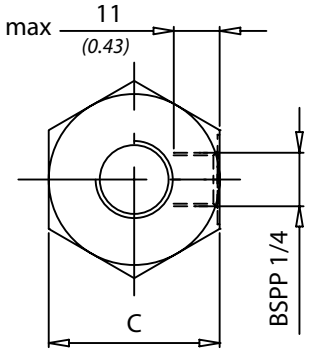
Valvole di blocco pilotate a semplice effetto
Single acting pilot check valves

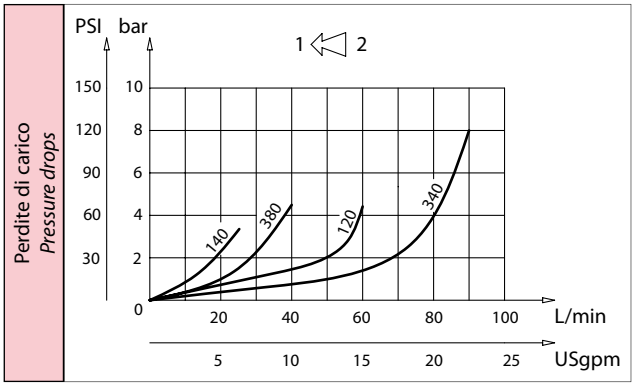


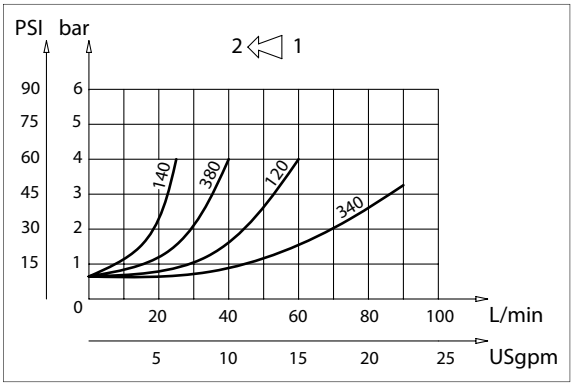
Dati tecnici *Technical data*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*
Classe di contaminazione *Filtration*	ISO code 16/13 *SAE class 4 or better*
Temperatura fluido *Fluid temperature*	-20°C +80°C *-4°F + 176°F*
Temperatura ambiente *Ambient temperature*	-20°C +50°C *-4°F +122°F*











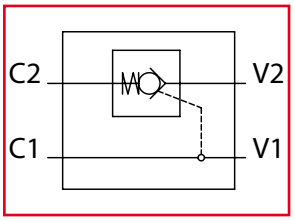
mm
(Inches)

Caratteristiche tecniche *Technical performances*							
Codice *Code*	A	Portata Max *Max flow* l/min - *USgpm*	Pressione Max *Max pressure* bar/*PSI*	L	C	Peso approssimativo *Approx weight* Kg / *lb*	Rapporto di pilotaggio *Pilot ratio*
VRPE140	**BSPP 1/4**	**25** *(6.5)*	**350** *(5000)*	**100** *(3.94)*	**36** *(1.42)*	**0,75** *(1.65)*	**1:3.6**
VRPE380	**BSPP 3/8**	**40** *(10.5)*		**105** *(4.13)*	**41** *(1.62)*	**1** *(2.2)*	**1:3.2**
VRPE120	**BSPP 1/2**	**60** *(16)*		**125** *(4.92)*		**1,1** *(2.4)*	**1:2.8**
VRPE340	**BSPP 3/4**	**100** *(26)*	**300** *(4350)*	**130** *(5.12)*	**55** *(2.16)*	**2** *(4.4)*	**1:3.2**
VRPE100	**BSPP 1**	**150** *(40)*		**166** *(6.54)*	**65** *(2.56)*	**3,6** *(7.92)*	**1:6.2**

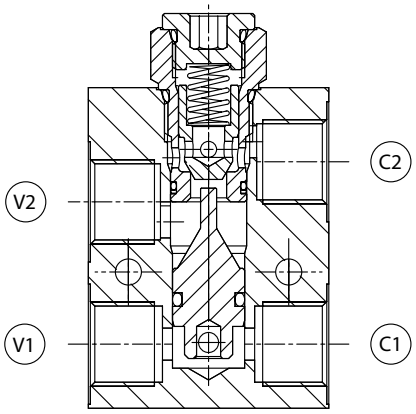
Codice ordinazione *Ordering code*	
VRPE - X	
X	Dimensione / *Size*
140	**BSPP 1/4**
380	**BSPP 3/8**
120	**BSPP 1/2**
340	**BSPP 3/4**
100	**BSPP 1**

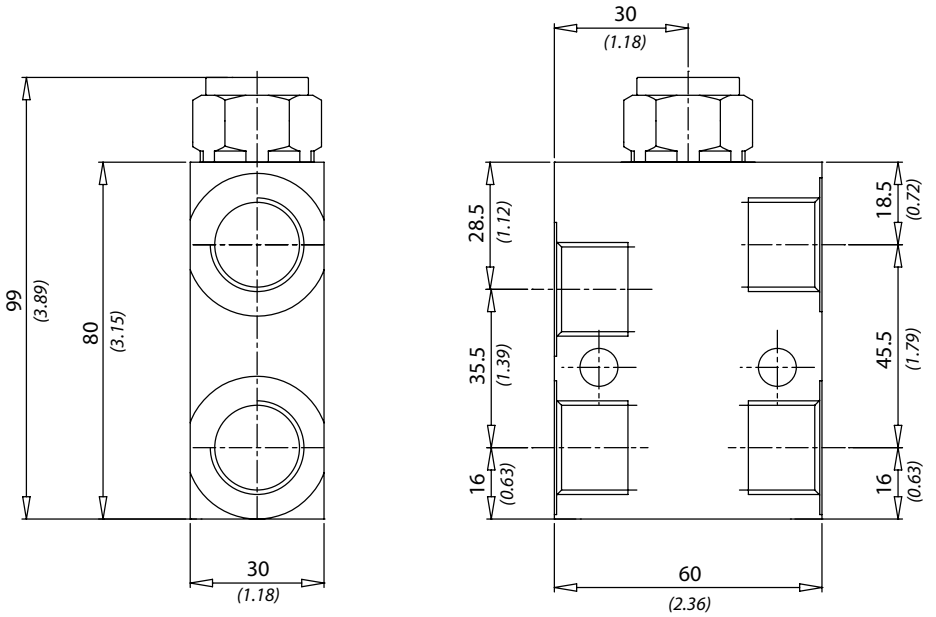
VRP

Valvole di blocco pilotate a semplice effetto
Single acting pilot check valves



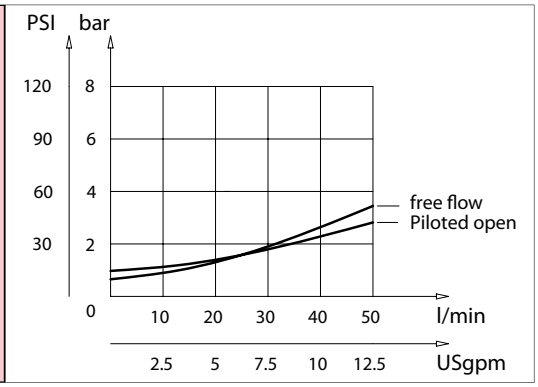
Dati tecnici *Technical data*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*
Classe di contaminazione *Filtration*	ISO code 16/13 *SAE class 4 or better*
Temperatura fluido *Fluid temperature*	-20°C +80°C *-4°F + 176°F*
Temperatura ambiente *Ambient temperature*	-20°C +50°C *-4°F +122°F*





mm
(Inches)

Perdite di carico
Pressure drops

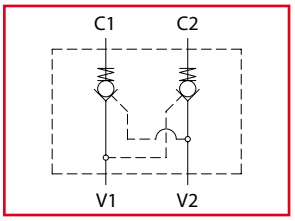


Caratteristiche tecniche *Technical performances*			
Codice *Code*	**Portata Max** ***Max flow*** **l/min - *USgpm***	**Pressione Max** ***Max pressure*** **bar/*PSI***	Peso approssimativo *Approx weight* Kg / *lb*
VRP120	**50** *(13)*	**350** *(5000)*	**1,1** *(4.42)*

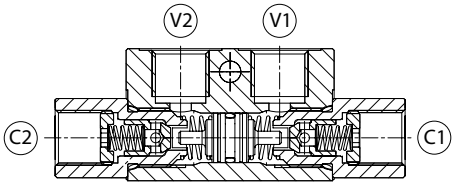
Codice ordinazione *Ordering code*	
VRP - X	
X	Dimensione / *Size*
120	**BSPP 1/2**

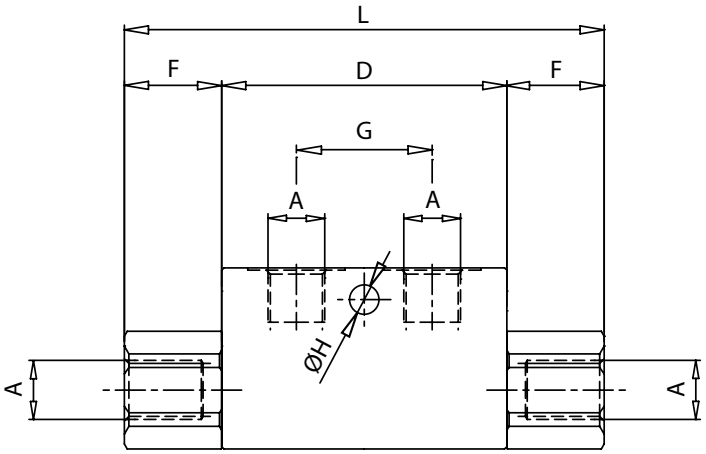
VRDE

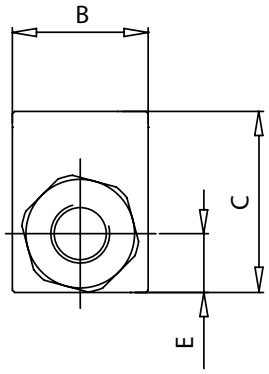
Valvole di blocco a doppio effetto
Double acting pilot check valves



Dati tecnici *Technical data*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*
Classe di contaminazione *Filtration*	ISO code 16/13 *SAE class 4 or better*
Temperatura fluido *Fluid temperature*	-20°C +80°C *-4°F + 176°F*
Temperatura ambiente *Ambient temperature*	-20°C +50°C *-4°F +122°F*

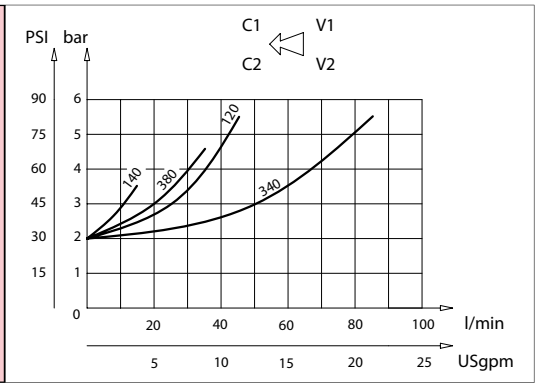


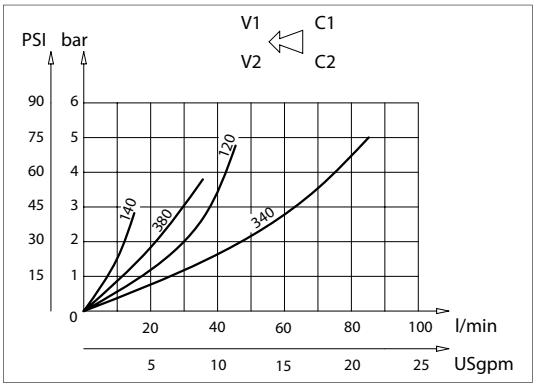




mm
(Inches)

Perdite di carico
Pressure drops





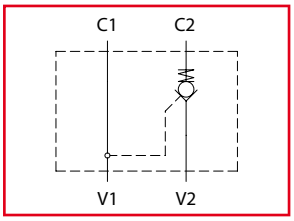
Codice ordinazione *Ordering code*	
VRDE - X	
X	Dimensione / *Size*
140	**BSPP 1/4**
380	**BSPP 3/8**
120	**BSPP 1/2**
340	**BSPP 3/4**

Caratteristiche tecniche
Technical performances

Codice *Code*	A	Portata Max *Max flow* l/min - *USgpm*	Pressione Max *Max pressure* bar/*PSI*	B	C	D	E	F	G	H	L	Peso approssimativo *Approx weight* Kg / *lb*	Rapporto di pilotaggio *Pilot ratio*
VRDE140	**BSPP 1/4**	**15** *(4)*	**320** *(4500)*	**30** *(1.18)*	**40** *(1.57)*	**63** *(2.48)*	**13** *(0.51)*	**21,5** *(0.85)*	**30** *(1.18)*	**6,5** *(0.26)*	**106** *(4.17)*	**0,63** *(1.4)*	**1:4**
VRDE380	**BSPP 3/8**	**35** *(9.3)*										**0,60** *(1.32)*	
VRDE120	**BSPP 1/2**	**45** *(12)*	**300** *(4350)*	**35** *(1.38)*	**50** *(1.97)*	**82** *(3.23)*	**16,5** *(0.65)*	**31,5** *(1.24)*	**36** *(1.42)*		**145** *(5.71)*	**1,10** *(2.42)*	
VRDE340	**BSPP 3/4**	**70** *(18.5)*		**40** *(1.57)*	**60** *(2.36)*	**100** *(3.94)*	**22,5** *(0.88)*	**46** *(1.81)*	**50** *(1.97)*	**8,5** *(0.34)*	**192** *(7.56)*	**2,10** *(4.62)*	**1:2.9**

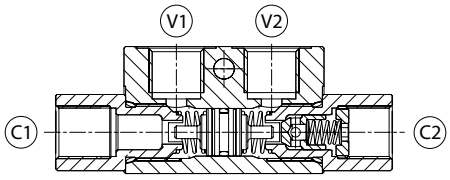
VRSE

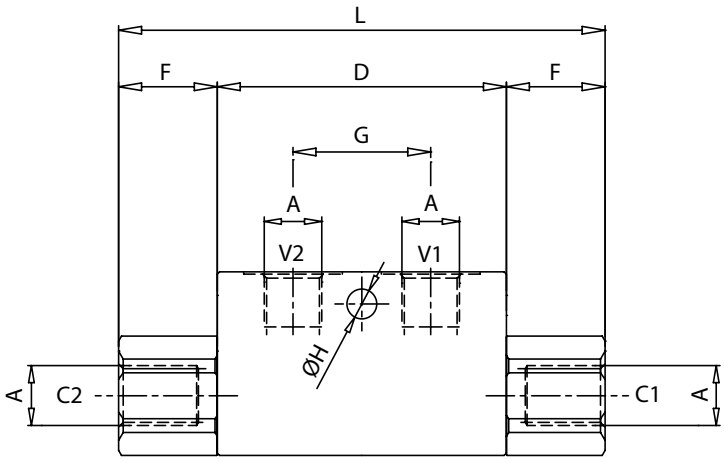
Valvole di blocco a semplice effetto
Single acting pilot check valves

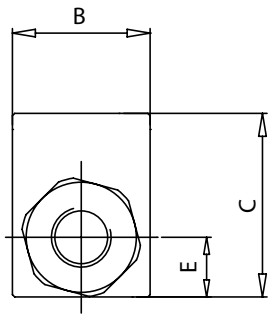


Dati tecnici
Technical data

Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*
Classe di contaminazione *Filtration*	ISO code 16/13 *SAE class 4 or better*
Temperatura fluido *Fluid temperature*	-20°C +80°C *-4°F + 176°F*
Temperatura ambiente *Ambient temperature*	-20°C +50°C *-4°F +122°F*

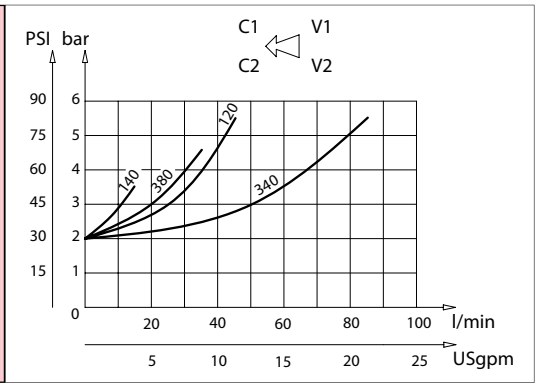


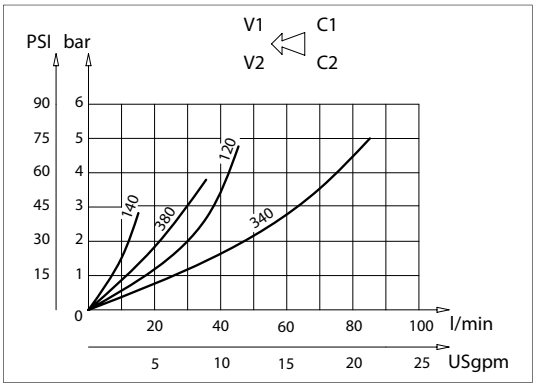




mm
(Inches)

Perdite di carico
Pressure drops





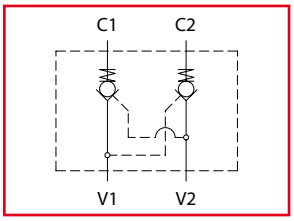
Codice ordinazione *Ordering code*	
VRSE - X	
X	Dimensione / *Size*
140	**BSPP 1/4**
380	**BSPP 3/8**
120	**BSPP 1/2**
340	**BSPP 3/4**

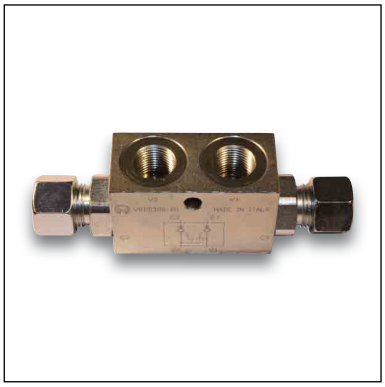
Caratteristiche tecniche
Technical performances

Codice *Code*	A	Portata Max *Max flow* l/min - *USgpm*	Pressione Max *Max pressure* bar/*PSI*	B	C	D	E	F	G	H	L	Peso approssimativo *Approx weight* Kg / *lb*	Rapporto di pilotaggio *Pilot ratio*
VRSE140	**BSPP 1/4**	**15** *(4)*	**320** *(4500)*	**30** *(1.18)*	**40** *(1.57)*	**63** *(2.48)*	**13** *(0.51)*	**21,5** *(0.85)*	**30** *(1.18)*	**6,5** *(0.26)*	**106** *(4.17)*	**0,63** *(1.4)*	**1:4**
VRSE380	**BSPP 3/8**	**35** *(9.3)*										**0,60** *(1.32)*	
VRSE120	**BSPP 1/2**	**45** *(12)*	**300** *(4350)*	**35** *(1.38)*	**50** *(1.97)*	**82** *(3.23)*	**16,5** *(0.65)*	**31,5** *(1.24)*	**36** *(1.42)*		**145** *(5.71)*	**1,10** *(2.42)*	
VRSE340	**BSPP 3/4**	**70** *(18.5)*		**40** *(1.57)*	**60** *(2.36)*	**100** *(3.94)*	**22,5** *(0.88)*	**46** *(1.81)*	**50** *(1.97)*	**8,5** *(0.34)*	**192** *(7.56)*	**2,10** *(4.62)*	**1:2.9**

VRDD

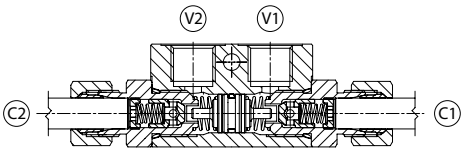
Valvole di blocco a doppio effetto
Double acting pilot check valves

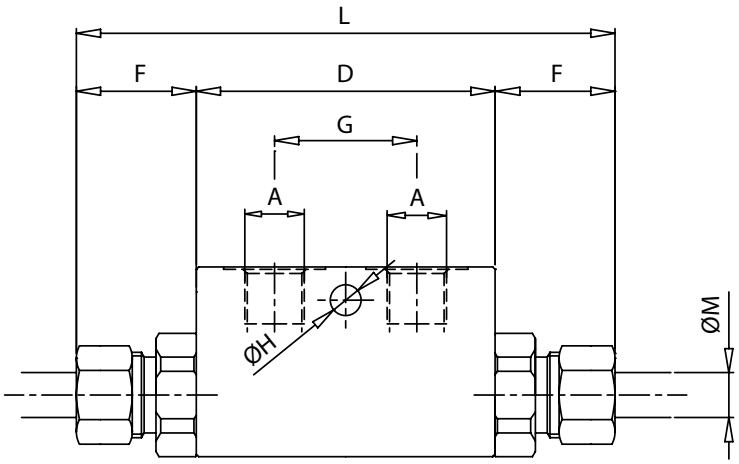


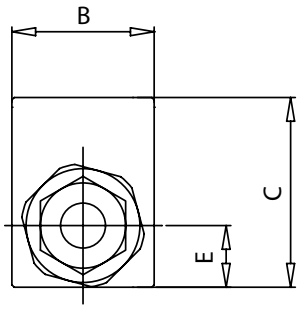


Dati tecnici
Technical data

Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*
Classe di contaminazione *Filtration*	ISO code 16/13 *SAE class 4 or better*
Temperatura fluido *Fluid temperature*	-20°C +80°C *-4°F + 176°F*
Temperatura ambiente *Ambient temperature*	-20°C +50°C *-4°F +122°F*

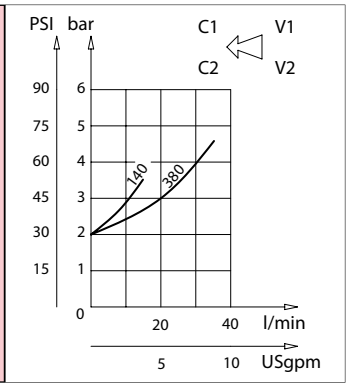


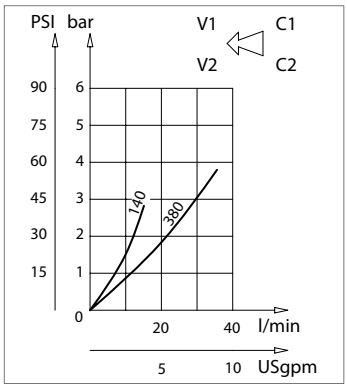




mm
(Inches)

Perdite di carico
Pressure drops





Codice ordinazione
Ordering code

VRDD - X - Y

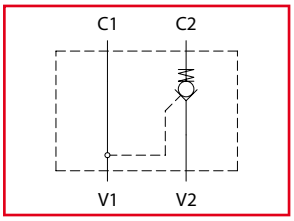
X	Dimensione / *Size*	Y	Dimensione / *Size*
140	**BSPP 1/4**	**T8**	**Per tubo Ø 8** *For Ø 8 pipe*
380	**BSPP 3/8**	**T12**	**Per tubo Ø 12** *For Ø 12 pipe*

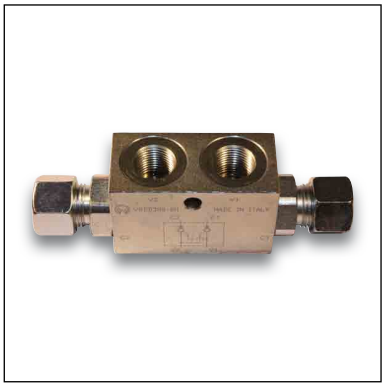
Caratteristiche tecniche
Technical performances

Codice *Code*	A	Portata Max *Max flow* l/min - *USgpm*	Pressione Max *Max pressure* bar/*PSI*	B	C	D	E	F	G	H	L	M	Peso approssimativo *Approx weight* Kg / *lb*	Rapporto di pilotaggio *Pilot ratio*
VRDD140T8	**BSPP 1/4**	**10** *(2.5)*	**320** *(4500)*	**30** *(1.18)*	**40** *(1.57)*	**63** *(2.48)*	**13** *(0.51)*	**25** *(0.98)*	**30** *(1.18)*	**6,5** *(0.26)*	**113** *(4.45)*	**8** *(0.32)*	**0,62** *(1.4)*	**1:9**
VRDD140T12	**BSPP 3/8**	**15** *(4)*						**32** *(1.26)*			**127** *(5)*	**12** *(0.47)*		**1:4**
VRDD380T12	**BSPP 1/2**	**35** *(9)*												

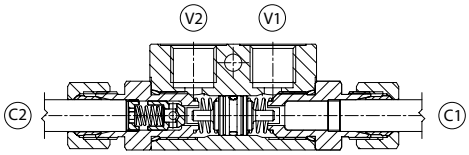
VRSD

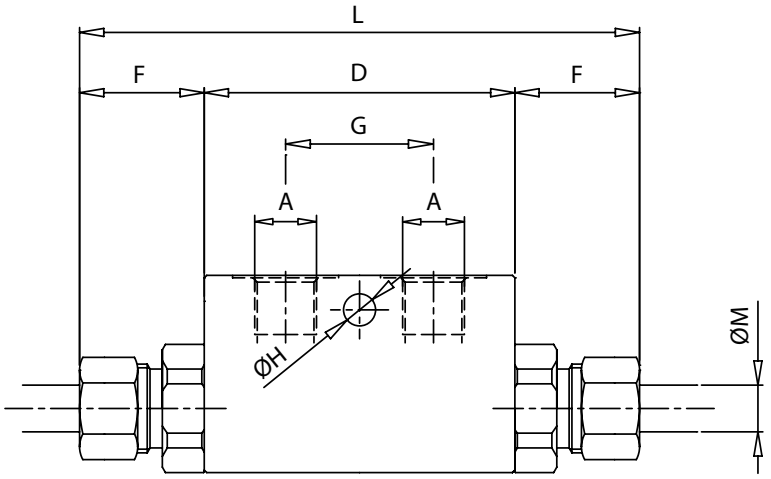
Valvole di blocco a semplice effetto DIN2353
Din2353 single acting pilot check valves

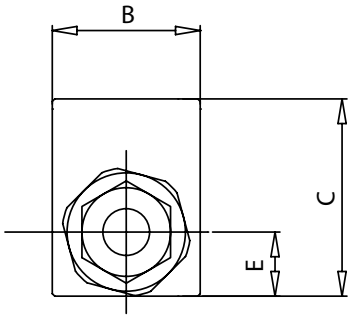




Dati tecnici *Technical data*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*
Classe di contaminazione *Filtration*	ISO code 16/13 *SAE class 4 or better*
Temperatura fluido *Fluid temperature*	-20°C +80°C *-4°F + 176°F*
Temperatura ambiente *Ambient temperature*	-20°C +50°C *-4°F +122°F*

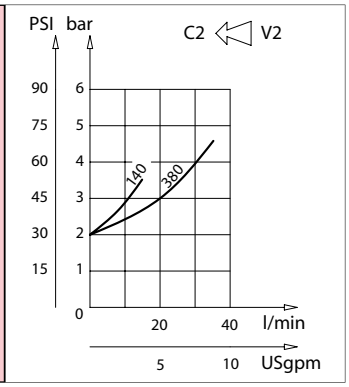


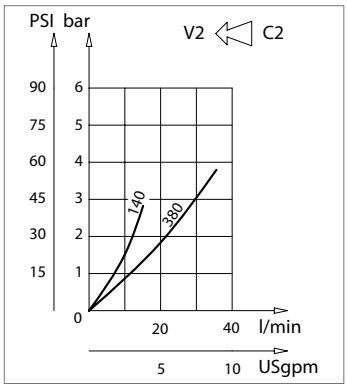




mm
(Inches)

Perdite di carico
Pressure drops





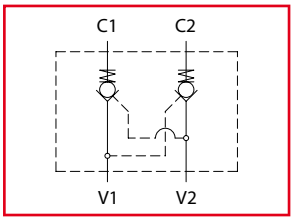
Codice ordinazione *Ordering code*			
VRSD - X - Y			
X	Dimensione / *Size*	**Y**	Dimensione / *Size*
140	**BSPP 1/4**	**T8**	**Per tubo Ø 8** *For Ø 8 pipe*
380	**BSPP 3/8**	**T12**	**Per tubo Ø 12** *For Ø 12 pipe*

Caratteristiche tecniche
Technical performances

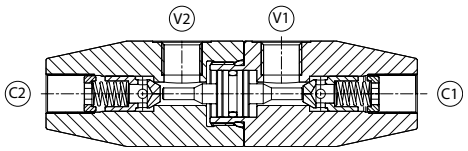
Codice *Code*	A	Portata Max *Max flow* l/min - *USgpm*	Pressione Max *Max pressure* bar/*PSI*	B	C	D	E	F	G	H	L	M	Peso approssimativo *Approx weight* Kg / *lb*	Rapporto di pilotaggio *Pilot ratio*
VRSD140T8	**BSPP 1/4**	**10** *(2.5)*	**320** *(4500)*	**30** *(1.18)*	**40** *(1.57)*	**63** *(2.48)*	**13** *(0.51)*	**25** *(0.98)*	**30** *(1.18)*	**6,5** *(0.26)*	**113** *(4.45)*	**8** *(0.32)*	**0,62** *(1.4)*	**1:9**
VRSD140T12	**BSPP 3/8**	**15** *(4)*						**32** *(1.26)*			**127** *(5)*	**12** *(0.47)*		**1:4**
VRSD380T12	**BSPP 1/2**	**35** *(9)*												

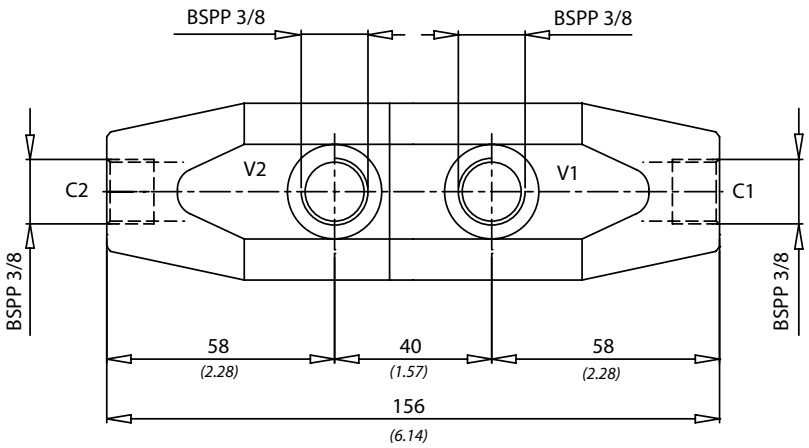
VRDP

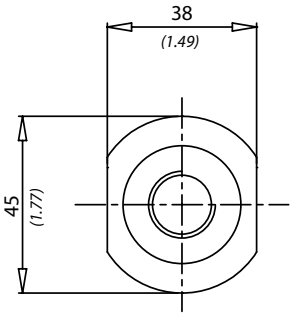
Valvole di blocco a doppio effetto
Double acting pilot check valves



Dati tecnici *Technical data*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*
Classe di contaminazione *Filtration*	ISO code 16/13 *SAE class 4 or better*
Temperatura fluido *Fluid temperature*	-20°C +80°C *-4°F + 176°F*
Temperatura ambiente *Ambient temperature*	-20°C +50°C *-4°F +122°F*

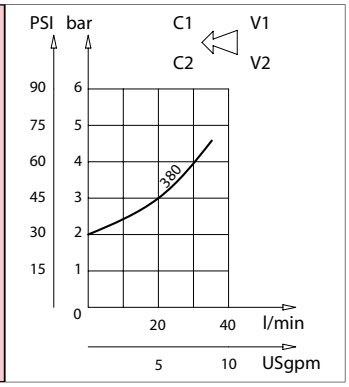


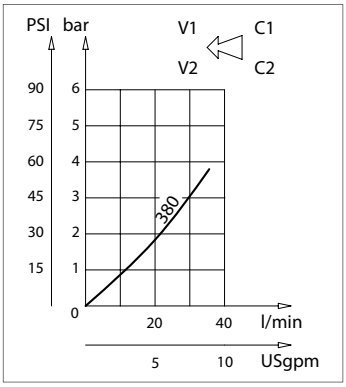




mm
(Inches)

Perdite di carico
Pressure drops



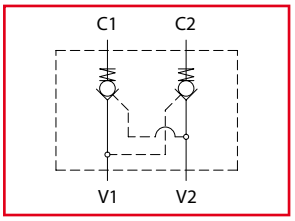


Caratteristiche tecniche *Technical performances*				
Codice *Code*	**Portata Max** ***Max flow*** **l/min - *USgpm***	**Pressione Max** ***Max pressure*** **bar/*PSI***	Peso approssimativo *Approx weight* Kg / *lb*	Rapporto di pilotaggio *Pilot ratio*
VRDP 380	**35** *(9)*	**320** *(4500)*	**1,42** *(3.15)*	**1:4**

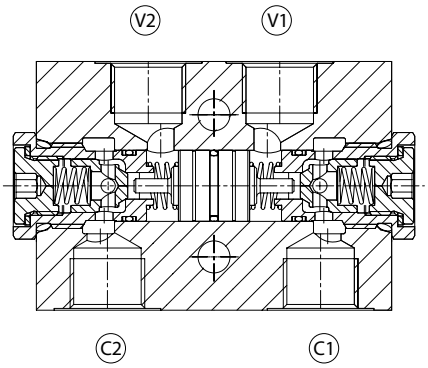
Codice ordinazione *Ordering code*
VRDP-380

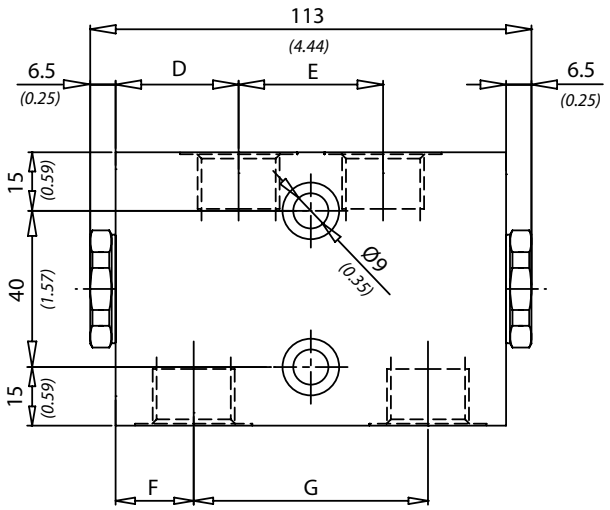
VRDL

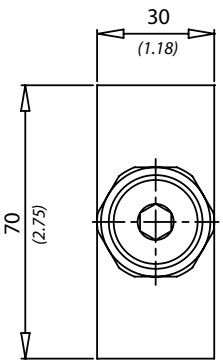
Valvole di blocco a doppio effetto
Double acting pilot check valves



Dati tecnici *Technical data*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*
Classe di contaminazione *Filtration*	ISO code 16/13 *SAE class 4 or better*
Temperatura fluido *Fluid temperature*	-20°C +80°C *-4°F + 176°F*
Temperatura ambiente *Ambient temperature*	-20°C +50°C *-4°F +122°F*

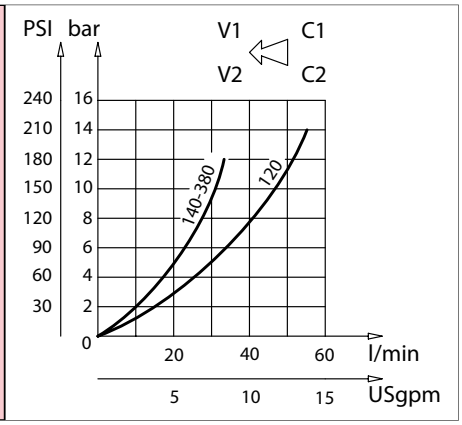


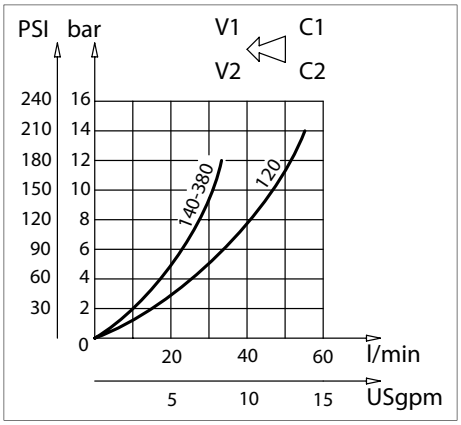




mm
(Inches)

Perdite di carico
Pressure drops



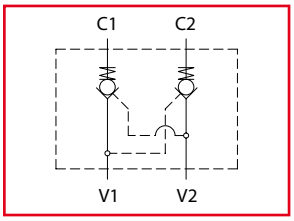


Caratteristiche tecniche *Technical performances*									
Codice *Code*	A	Portata Max *Max flow* l/min - *USgpm*	Pressione Max *Max pressure* bar/*PSI*	D	E	F	G	Peso approssimativo *Approx weight* Kg / *lb*	Rapporto di pilotaggio *Pilot ratio*
VRDL140	**BSPP 1/4**	**35** *(9)*	**350** *(5000)*	**35** *(1.38)*	**30** *(1.18)*	**18** *(0.71)*	**64** *(2.52)*	**1,25** *(2.75)*	**1:7.1**
VRDL380	**BSPP 3/8**			**31,5** *(1.24)*	**37** *(1.46)*	**20** *(0.79)*	**60** *(2.36)*	**1,39** *(3.1)*	
VRDL120	**BSPP 1/2**	**50** *(13)*						**1,32** *(2.9)*	

Codice ordinazione *Ordering code*	
VRDL-X	
X	Dimensione / *Size*
140	**BSPP 1/4**
380	**BSPP 3/8**
120	**BSPP 1/2**

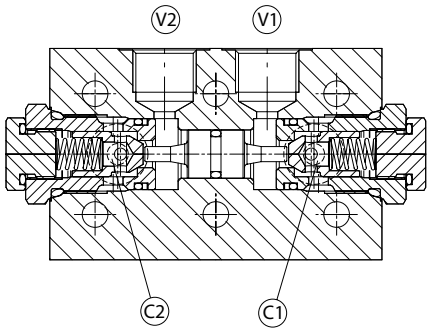
VRDF

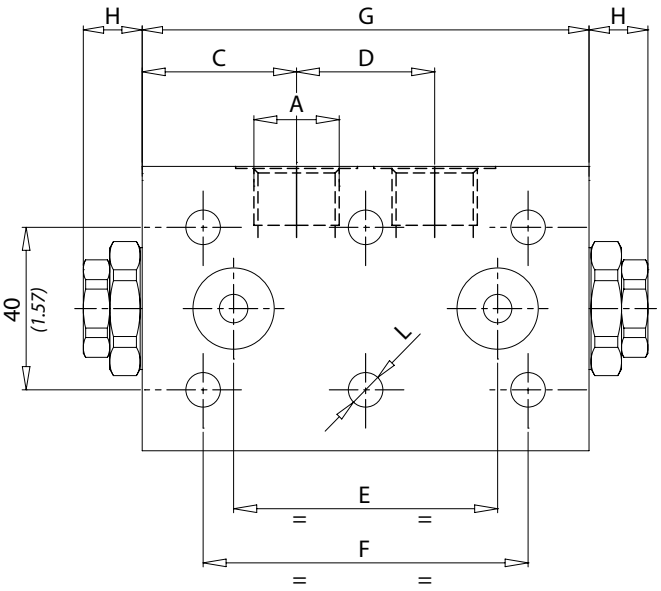
Valvola di blocco flangiata doppio effetto
Double acting pilot check valves-flanged version

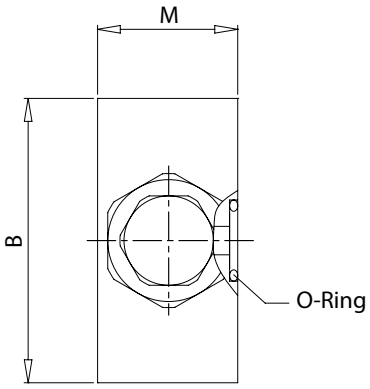


Dati tecnici
Technical data

Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*
Classe di contaminazione *Filtration*	ISO code 16/13 *SAE class 4 or better*
Temperatura fluido *Fluid temperature*	-20°C +80°C *-4°F + 176°F*
Temperatura ambiente *Ambient temperature*	-20°C +50°C *-4°F +122°F*

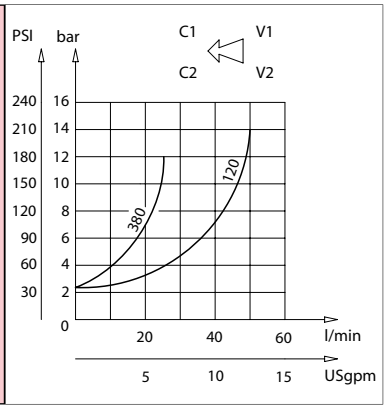


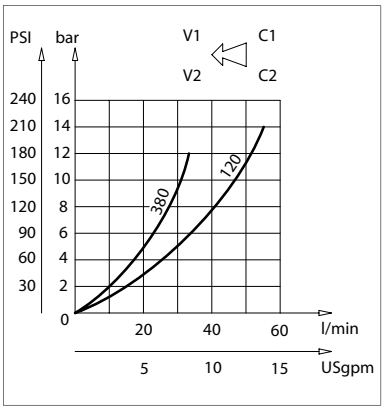




mm
(Inches)

Perdite di carico
Pressure drops





Codice ordinazione
Ordering code

VRDF-X-Y-K

X	Dimensione / *Size*
380	**BSPP 3/8**
120	**BSPP 1/2**

Y	Molla / *Spring*
1	**1 bar Standard**
6	**6 bar**

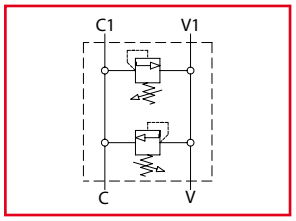
K	**O-Ring sul pistone di pilotaggio** *O-ring on pilot piston*
0	**No o-ring**
1	**Con o-ring** *With o-ring*

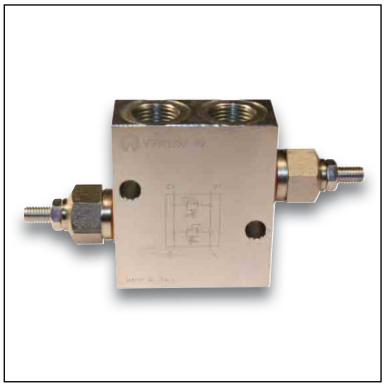
Caratteristiche tecniche
Technical performances

Codice *Code*	A	Portata Max *Max flow* l/min - *USgpm*	Pressione Max *Max pressure* bar/*PSI*	B	C	D	E	F	G	H	L	M	O-Ring	Peso approssimativo *Approx weight* Kg / *lb*	Rapporto di pilotaggio *Pilot ratio*
VRDF380	**BSPP 3/8**	**35** *(9)*	**210** *(3000)*	**60** *(2.36)*	**32** *(1.26)*	**32** *(1.26)*	**62** *(2.44)*	**70** *(2.76)*	**96** *(3.78)*	**10** *(0.39)*	**6.5** *(0.26)*	**34** *(1.34)*	**9.19** x **2.62**	**1,2** *(2.6)*	**1:7**
VRDF120	**BSPP 1/2**	**50** *(13)*		**70** *(2.76)*	**38** *(1.49)*	**34** *(1.34)*	**65** *(2.56)*	**80** *(3.15)*	**110** *(4.33)*	**14.5** *(0.57)*	**8.5** *(0.33)*		**15.54** x **2.62**	**1,32** *(2.9)*	**1:3,2**

VBDC

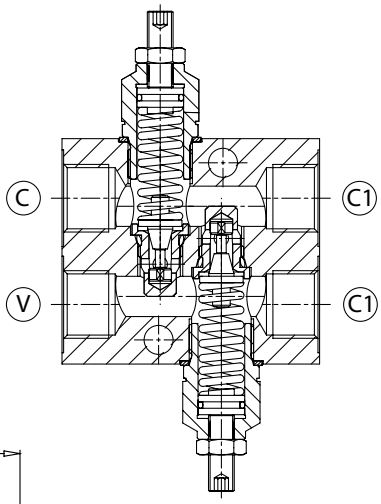
Valvole antiurto doppie incrociate
Double cross line direct acting relief valves

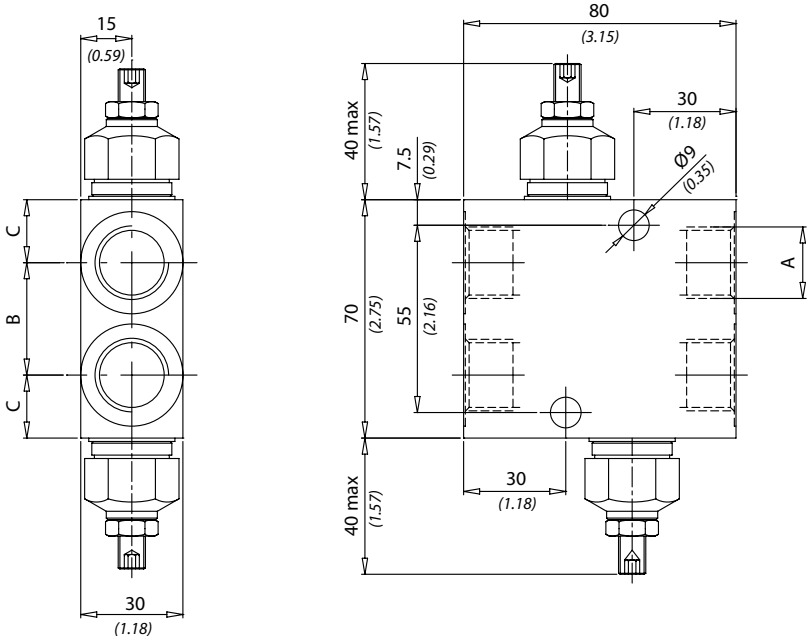




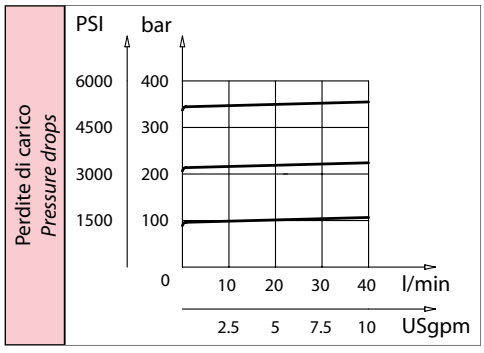
Dati tecnici
Technical data

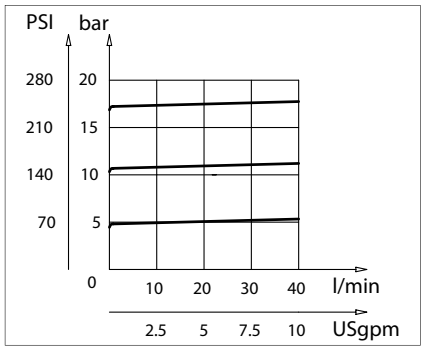
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*
Classe di contaminazione *Filtration*	ISO code 16/13 *SAE class 4 or better*
Temperatura fluido *Fluid temperature*	-20°C +80°C *-4°F + 176°F*
Temperatura ambiente *Ambient temperature*	-20°C +50°C *-4°F +122°F*





mm
(Inches)





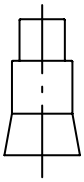
Caratteristiche tecniche *Technical performances*							
Codice *Code*	A	Portata Max *Max flow* l/min - *USgpm*	Pressione Max *Max pressure* bar/*PSI*	B	C	Peso approssimativo *Approx weight* Kg / *lb*	Valvola tipo *Type of valve*
VBDC380	**BSPP 3/8**	**40** *(10.5)*	**350** *(5000)*	**28** *(1.10)*	**21** *(0.83)*	**1,1** *(2.45)*	**VMD40**
VBDC120	**BSPP 1/2**			**33** *(1.30)*	**18,5** *(0.73)*		

Codice ordinazione
Ordering code

VBDC - X - Y - K

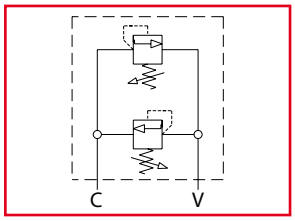
X	Dimensione / *Size*
380	**BSPP 3/8**
120	**BSPP 1/2**

Y	Molla / *Spring*
1	**100 bar** *(1450 PSI)* max
2	**210 bar** *(3000 PSI)* max
3	**350 bar** *(5000 PSI)* max

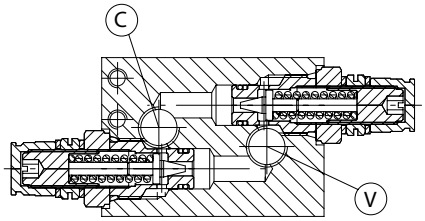
K	Cappuccio in plastica *Safety cap*
S	

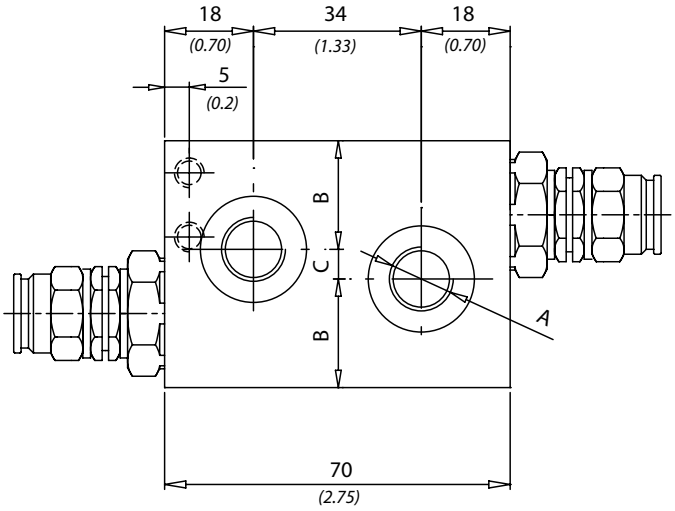
DCA

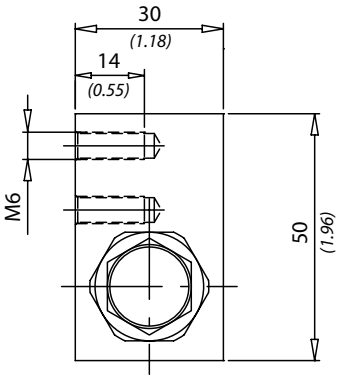
Valvole antiurto doppie incrociate
Double cross line direct acting relief valves



Dati tecnici *Technical data*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*
Classe di contaminazione *Filtration*	ISO code 16/13 *SAE class 4 or better*
Temperatura fluido *Fluid temperature*	-20°C +80°C *-4°F + 176°F*
Temperatura ambiente *Ambient temperature*	-20°C +50°C *-4°F +122°F*

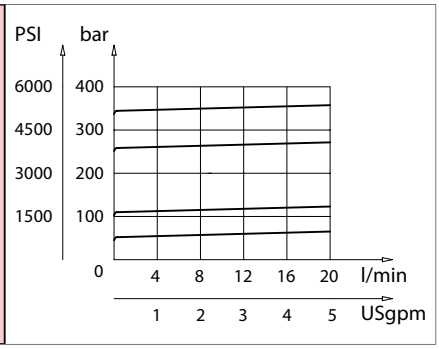


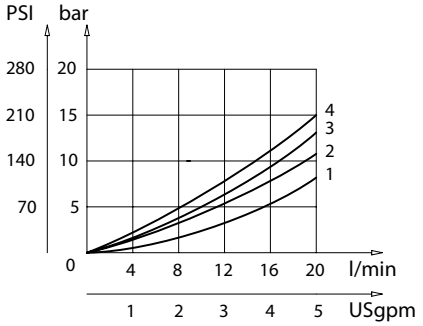




mm
(Inches)

Perdite di carico
Pressure drops





Caratteristiche tecniche *Technical performances*							
Codice *Code*	A	Portata Max *Max flow* l/min - *USgpm*	Pressione Max *Max pressure* bar/*PSI*	B	C	Peso approssimativo *Approx weight* Kg / *lb*	Valvola tipo *Type of valve*
DCA140	**BSPP1/4**	**20** *(5.3)*	**350** *(5000)*	**22** *(0.87)*	**6** *(0.24)*	**0,8** *(1.8)*	**VMD1**
DCA380	**BSPP 3/8**			**20** *(0.79)*	**10** *(0.39)*		

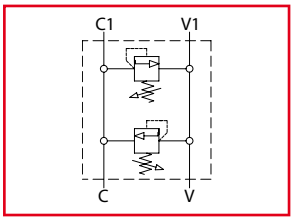
Codice ordinazione
Ordering code

DCA - X - Y

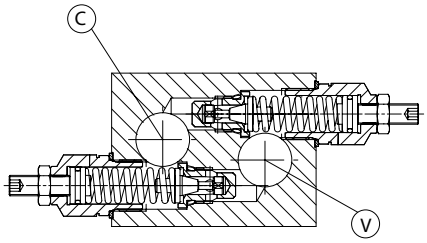
X	Dimensione / *Size*	Y	Molla / *Spring*
140	**BSPP 1/4**	**1**	**40 bar** *(580 PSI)* max
		2	**110 bar** *(1600 PSI)* max
380	**BSPP 3/8**	**3**	**250 bar** *(3600 PSI)* max
		4	**350 bar** *(5000 PSI)* max

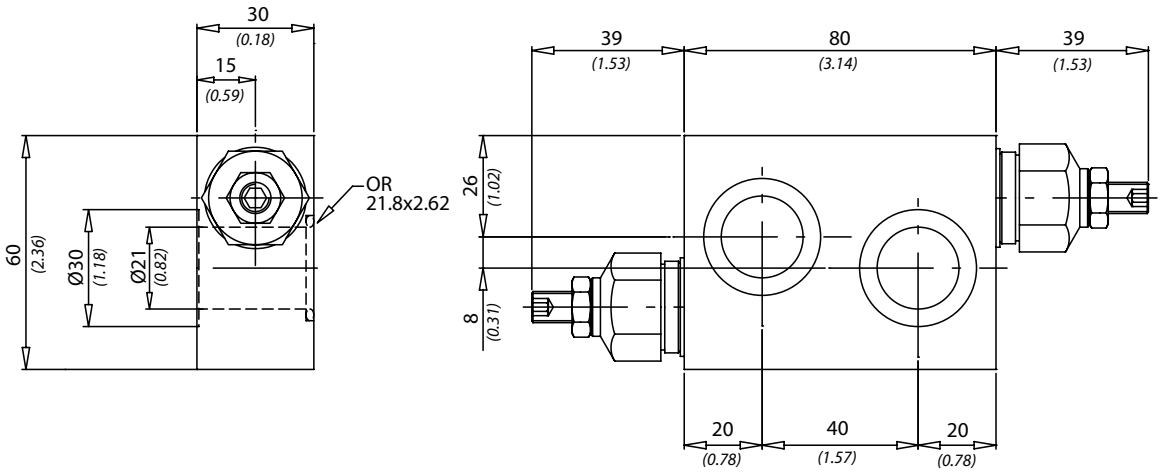
DCL

Valvole antiurto doppie incrociate
Double cross line direct acting relief valves



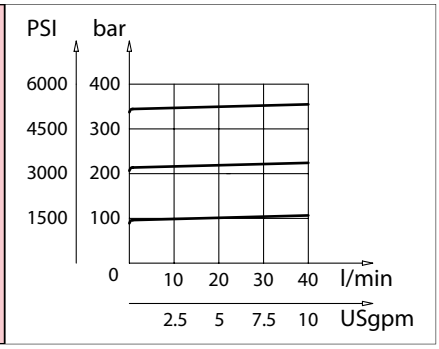
Dati tecnici *Technical data*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*
Classe di contaminazione *Filtration*	ISO code 16/13 *SAE class 4 or better*
Temperatura fluido *Fluid temperature*	-20°C +80°C *-4°F + 176°F*
Temperatura ambiente *Ambient temperature*	-20°C +50°C *-4°F +122°F*

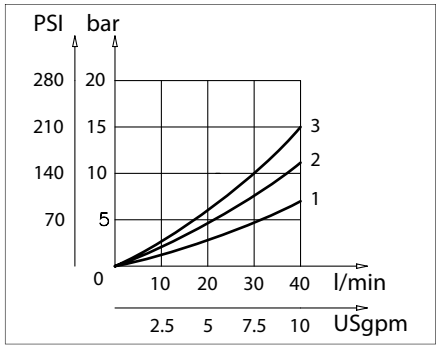




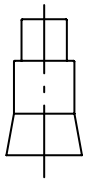
mm
(Inches)

Perdite di carico
Pressure drops



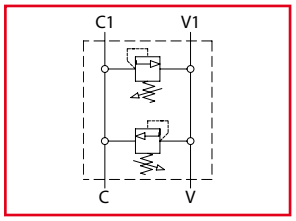


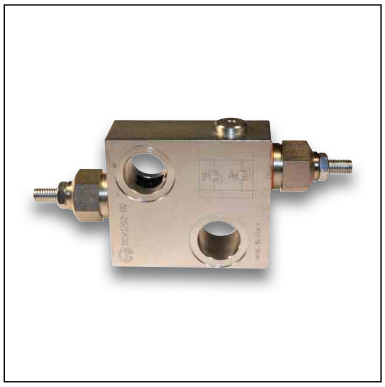
Caratteristiche tecniche *Technical performances*					
Codice *Code*	A	**Portata Max** ***Max flow*** l/min - *USgpm*	**Pressione Max** ***Max pressure*** bar/*PSI*	Peso approssimativo *Approx weight* Kg / *lb*	Valvola tipo *Type of valve*
DCL120	**BSPP 1/2**	**40** *(10.5)*	**350** *(5000)*	**1,5** *(3.3)*	**VMD40**

Codice ordinazione *Ordering code*			
DCL - X - Y - K			
X	Dimensione / *Size*	**K**	Cappuccio in plastica *Safety cap*
120	**BSPP 1/2**	**S**	
Y	Molla / *Spring*		
1	**100 bar** *(1450 PSI)* max		
2	**210 bar** *(3000 PSI)* max		
3	**350 bar** *(5000 PSI)* max		

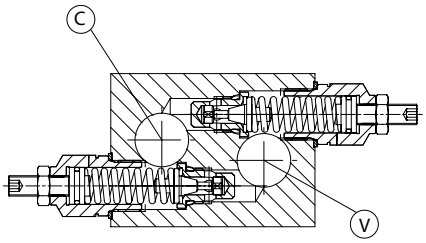
DCV

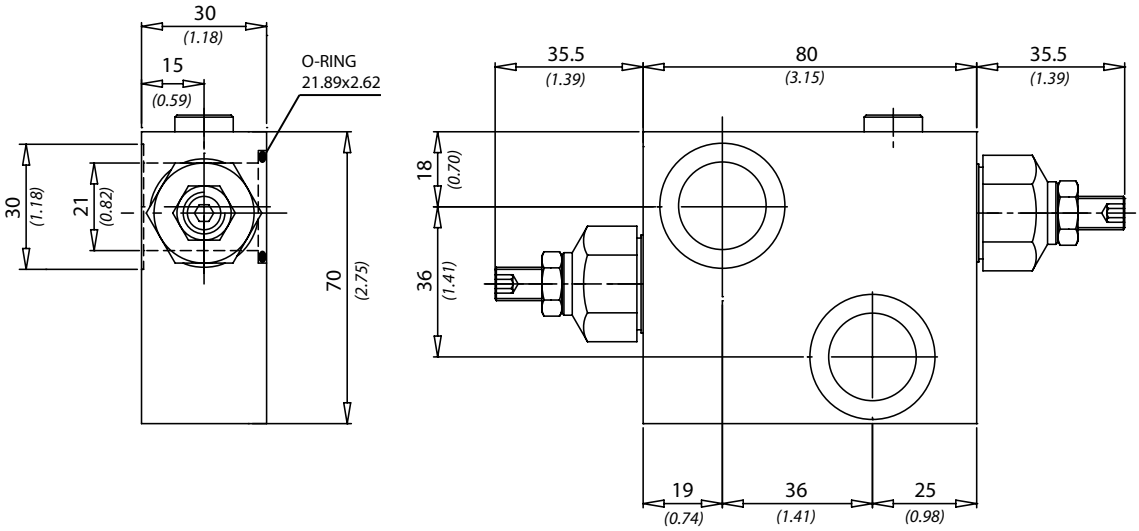
Valvole antiurto doppie incrociate
Double cross line direct acting relief valves

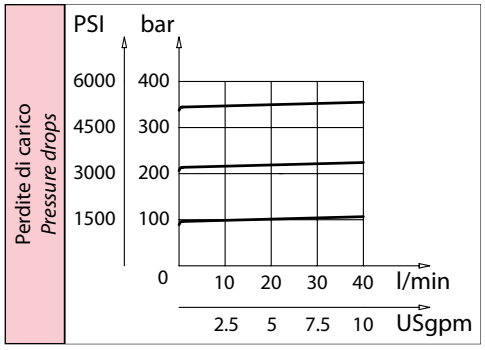


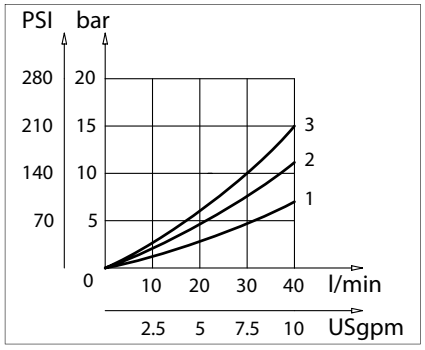


Dati tecnici *Technical data*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*
Classe di contaminazione *Filtration*	ISO code 16/13 *SAE class 4 or better*
Temperatura fluido *Fluid temperature*	-20°C +80°C *-4°F + 176°F*
Temperatura ambiente *Ambient temperature*	-20°C +50°C *-4°F +122°F*

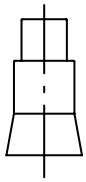






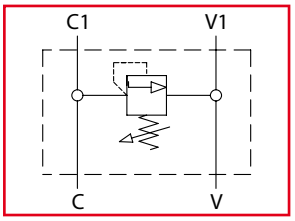


Caratteristiche tecniche *Technical performances*					
Codice *Code*	A	**Portata Max** ***Max flow*** **l/min - *USgpm***	**Pressione Max** ***Max pressure*** **bar/*PSI***	Peso approssimativo *Approx weight* Kg / *lb*	Valvola tipo *Type of valve*
DCV120	**BSPP 1/2**	**40** *(10.5)*	**350** *(5000)*	**1,2** *(2.7)*	**VMD40**

Codice ordinazione *Ordering code*			
DCV - X - Y - K			
X	Dimensione / *Size*	**K**	Cappuccio in plastica *Safety cap*
120	**BSPP 1/2**	**S**	
Y	Molla / *Spring*		
1	**100 bar** *(1450 PSI)* max		
2	**210 bar** *(3000 PSI)* max		
3	**350 bar** *(5000 PSI)* max		

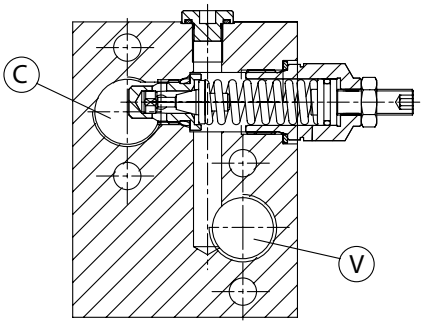
SCF

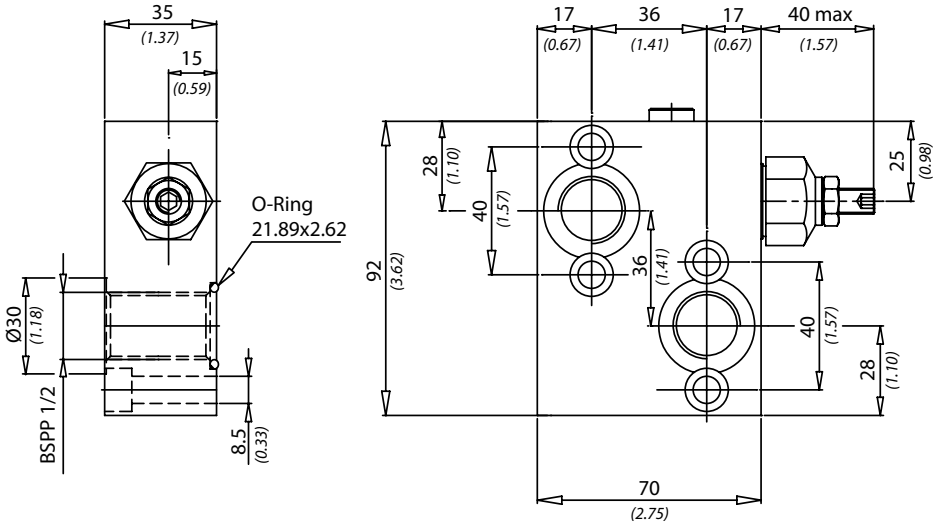
Valvola antiurto singola
Single line direct acting relief valve



Dati tecnici
Technical data

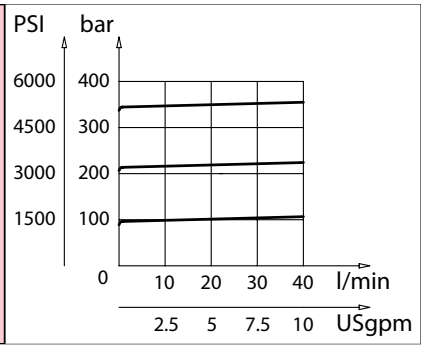
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*
Classe di contaminazione *Filtration*	ISO code 16/13 *SAE class 4 or better*
Temperatura fluido *Fluid temperature*	-20°C +80°C *-4°F + 176°F*
Temperatura ambiente *Ambient temperature*	-20°C +50°C *-4°F +122°F*

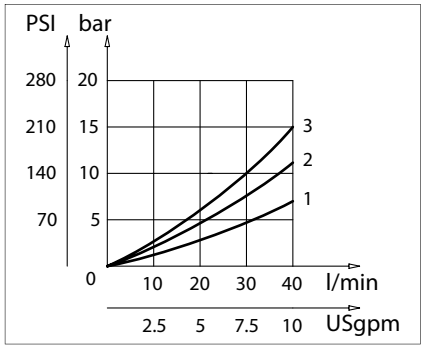




mm
(Inches)

Perdite di carico
Pressure drops





Caratteristiche tecniche
Technical performances

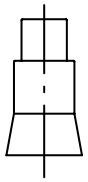
Codice *Code*	A	Portata Max *Max flow* l/min - *USgpm*	Pressione Max *Max pressure* bar/*PSI*	Peso approssimativo *Approx weight* Kg / *lb*	Valvola tipo *Type of valve*
SCF120	**BSPP 1/2**	**40** *(10.5)*	**350** *(5000)*	**1,5** *(3.3)*	**VMD40**

Codice ordinazione
Ordering code

SCF - X - Y - K

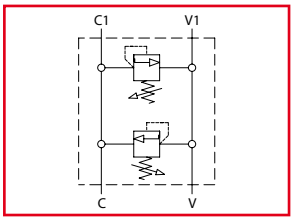
X	Dimensione / *Size*
120	**BSPP 1/2**

Y	Molla / *Spring*
1	**100 bar** *(1450 PSI)* max
2	**210 bar** *(3000 PSI)* max
3	**350 bar** *(5000 PSI)* max

K	Cappuccio in plastica *Safety cap*
S	

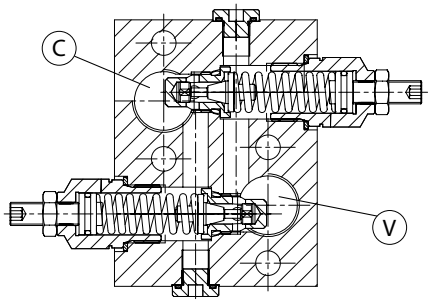
DCF

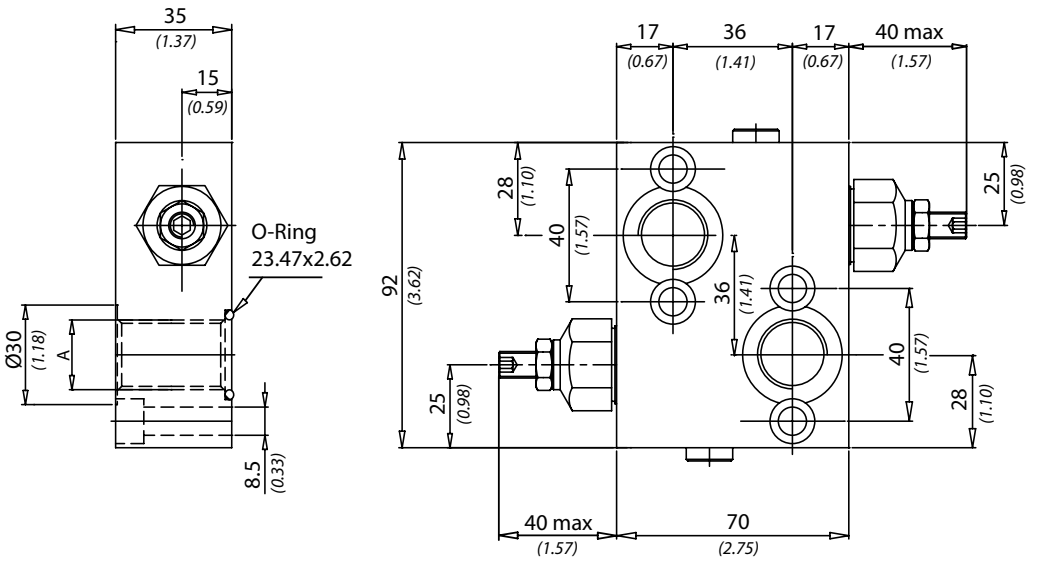
Valvola antiurto doppie incrociate
Double cross line direct acting relief valves



Dati tecnici
Technical data

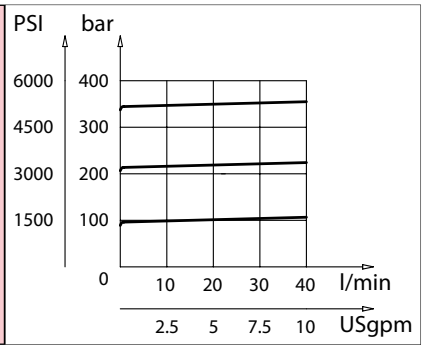
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*
Classe di contaminazione *Filtration*	ISO code 16/13 *SAE class 4 or better*
Temperatura fluido *Fluid temperature*	-20°C +80°C *-4°F + 176°F*
Temperatura ambiente *Ambient temperature*	-20°C +50°C *-4°F +122°F*

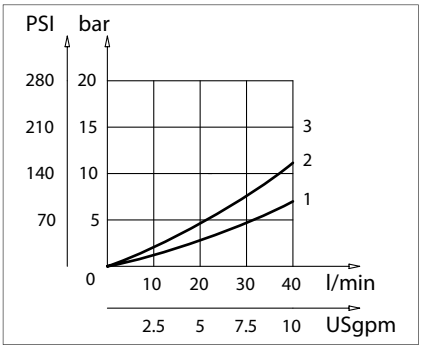




mm
(Inches)

Perdite di carico
Pressure drops





Caratteristiche tecniche
Technical performances

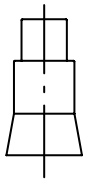
Codice *Code*	A	Portata Max *Max flow* l/min - *USgpm*	Pressione Max *Max pressure* bar/*PSI*	Peso approssimativo *Approx weight* Kg / *lb*	Valvola tipo *Type of valve*
DCF120	**BSPP 1/2**	**40** *(10.5)*	**350** *(5000)*	**1,5** *(3.3)*	**VMD40**
DCF7814	**7/8 - 14 UNF**				
DCF2215	**M22 x 1,5**				

Codice ordinazione
Ordering code

DCF - X - Y - K

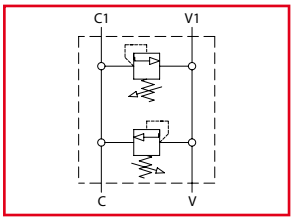
X	Dimensione / *Size*
120	**BSPP 1/2**
7814	**7/8 - 14UNF**
2215	**M22x1.5**

Y	Molla / *Spring*
1	**100 bar** *(1450 PSI)* max
2	**210 bar** *(3000 PSI)* max
3	**350 bar** *(5000 PSI)* max

K	Cappuccio in plastica *Safety cap*
S	

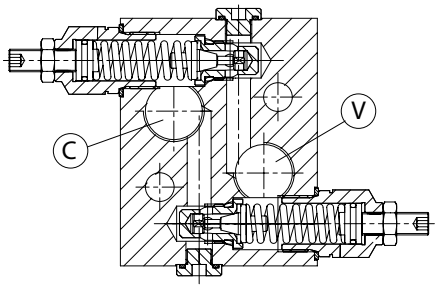
DCM

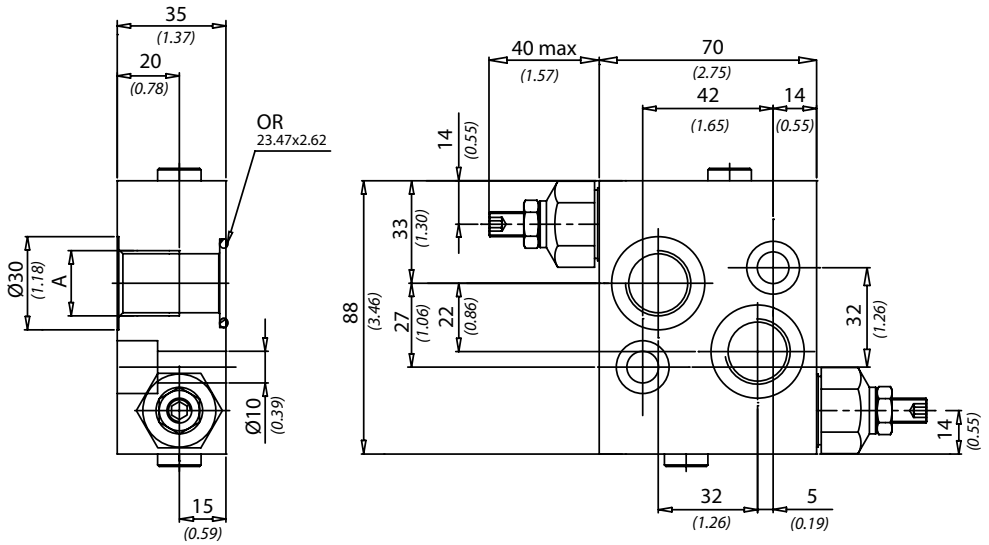
Valvola antiurto doppie incrociate
Double cross line direct acting relief valves



Dati tecnici
Technical data

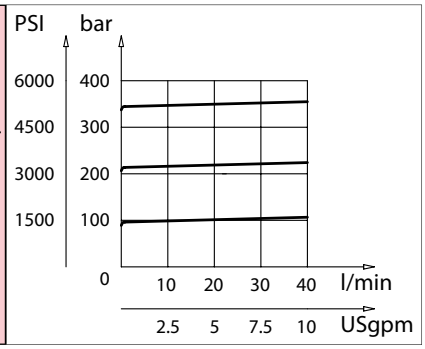
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*
Classe di contaminazione *Filtration*	ISO code 16/13 *SAE class 4 or better*
Temperatura fluido *Fluid temperature*	-20°C +80°C *-4°F + 176°F*
Temperatura ambiente *Ambient temperature*	-20°C +50°C *-4°F +122°F*

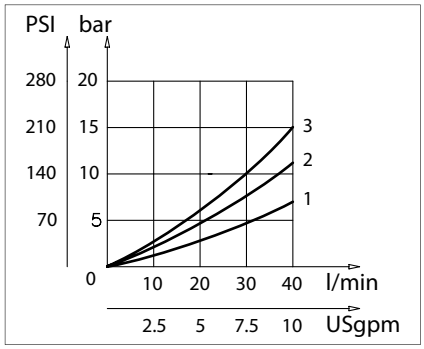




mm
(Inches)

Perdite di carico
Pressure drops





Caratteristiche tecniche
Technical performances

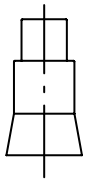
Codice *Code*	A	Portata Max *Max flow* l/min - *USgpm*	Pressione Max *Max pressure* bar/*PSI*	Peso approssimativo *Approx weight* Kg / *lb*	Valvola tipo *Type of valve*
DCM120	**BSPP 1/2**	**40** *(10.5)*	**350** *(5000)*	**1,5** *(3.3)*	**VMD40**
DCM7814	**7/8 - 14 UNF**				
DCM2215	**M22 x 1,5**				

Codice ordinazione
Ordering code

DCM - X - Y - K

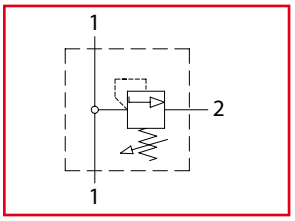
X	Dimensione / *Size*
120	**BSPP 1/2**
7814	**7/8 - 14UNF**
2215	**M22x1.5**

Y	Molla / *Spring*
1	**100 bar** *(1450 PSI)* max
2	**210 bar** *(3000 PSI)* max
3	**350 bar** *(5000 PSI)* max

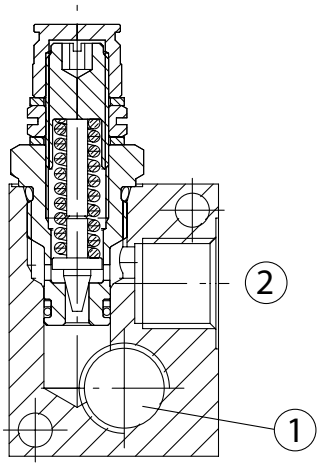
K	Cappuccio in plastica *Safety cap*
S	

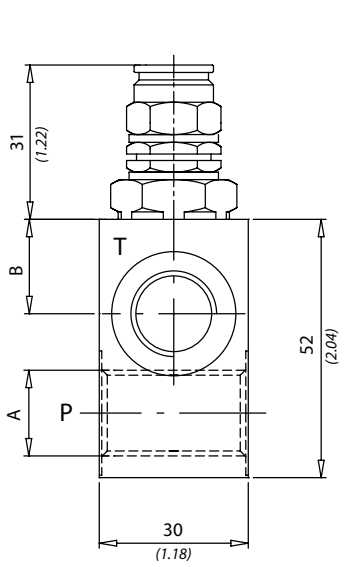
VMDR1

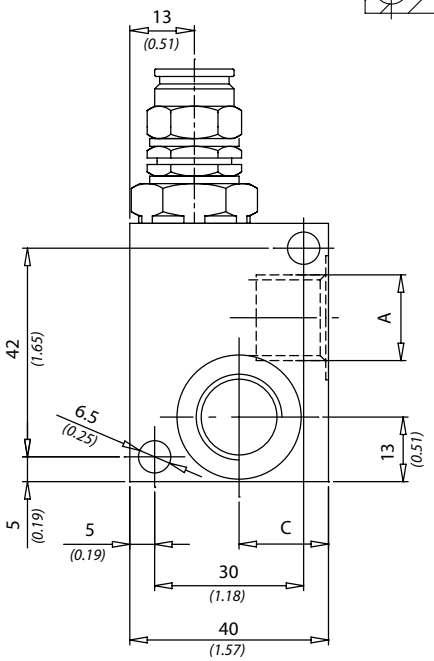
Valvole di massima pressione in linea
Direct acting relief valves



Dati tecnici *Technical data*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*
Classe di contaminazione *Filtration*	ISO code 16/13 *SAE class 4 or better*
Temperatura fluido *Fluid temperature*	-20°C +80°C *-4°F + 176°F*
Temperatura ambiente *Ambient temperature*	-20°C +50°C *-4°F +122°F*

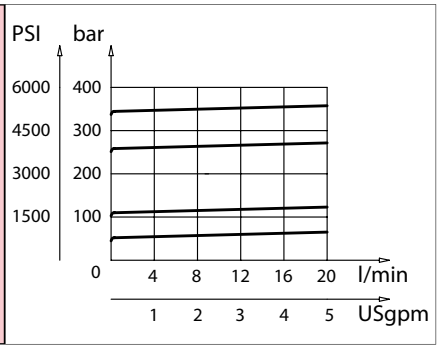


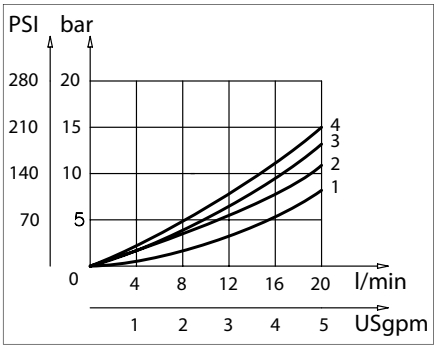




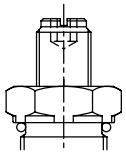
mm
(Inches)

Perdite di carico
Pressure drops



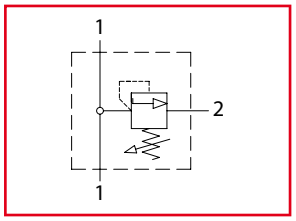


Caratteristiche tecniche *Technical performances*						
Codice *Code*	A	Portata Max *Max flow* l/min - *USgpm*	Pressione Max *Max pressure* bar/*PSI*	B	C	Peso approssimativo *Approx weight* Kg / *lb*
VMDR1140	**BSPP1/4**	**20** *(5)*	**350** *(5000)*	**17** *(0.67*	**20** *(0.78)*	**0,45** *(0.99)*
VMDR1380	**BSPP 3/8**			**19** *(0.75)*	**18** *(0.71)*	

Codice ordinazione *Ordering code*			
VMDR1 - X - Y - K			
X	Dimensione / *Size*	**Y**	Regolazione / *Setting*
140	**BSPP 1/4**	**C**	
380	**BSPP 3/8**		
K	Molla / *Spring*		
1	**40 bar** *(600 PSI)* max		
2	**110 bar** *(1600 PSI)* max		
3	**250 bar** *(3600 PSI)* max		
4	**350 bar** *(5000 PSI)* max		

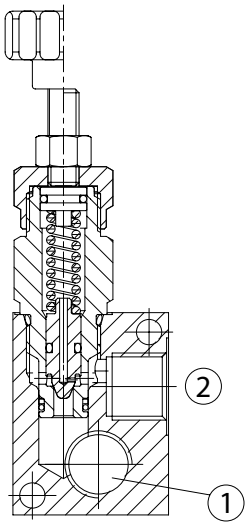
VMDR10

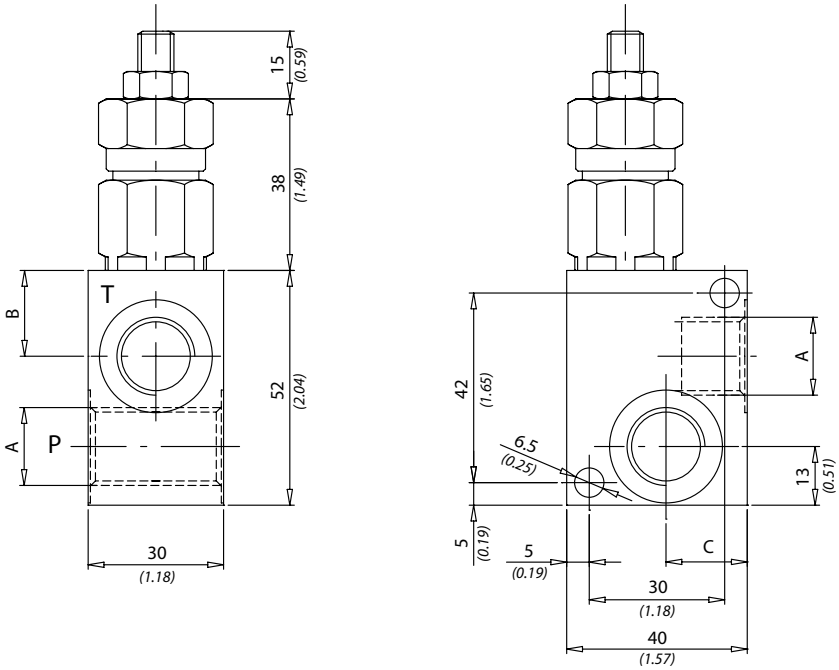
Valvole di massima pressione in linea
Direct acting relief valves



Dati tecnici
Technical data

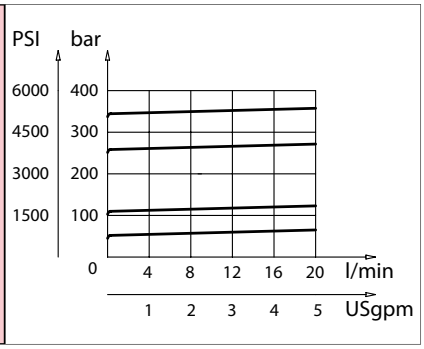
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*
Classe di contaminazione *Filtration*	ISO code 16/13 *SAE class 4 or better*
Temperatura fluido *Fluid temperature*	-20°C +80°C *-4°F + 176°F*
Temperatura ambiente *Ambient temperature*	-20°C +50°C *-4°F +122°F*

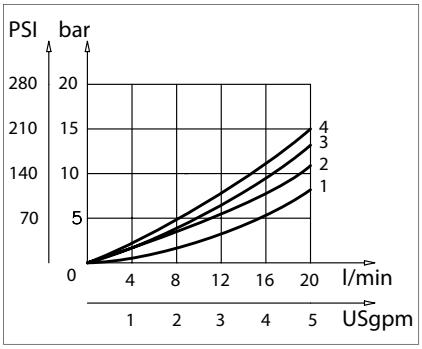




mm
(Inches)

Perdite di carico
Pressure drops



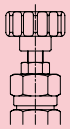
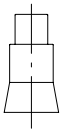


Codice ordinazione
Ordering code

VMDR10 - X - Y - K

X	Dimensione / *Size*
140	**BSPP 1/4**
380	**BSPP 3/8**

K	Molla - *Spring*
1	**40 bar** *(600 PSI)* max
2	**110 bar** *(1600 PSI)* max
3	**250 bar** *(3600 PSI)* max
4	**350 bar** *(5000 PSI)* max

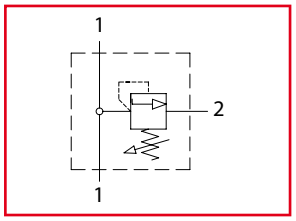
Y	Regolazione / *Setting*
C	
V	
S	

Caratteristiche tecniche
Technical performances

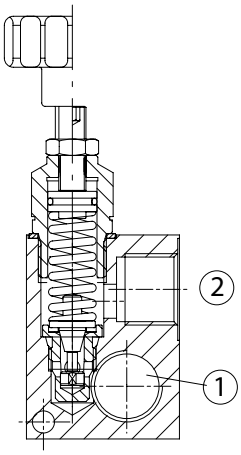
Codice *Code*	A	Portata Max *Max flow* l/min - *USgpm*	Pressione Max *Max pressure* bar/*PSI*	B	C	Peso approssimativo *Approx weight* Kg / *lb*
VMDR10140	**BSPP1/4**	**20** *(5)*	**350** *(5000)*	**17** *(0.67)*	**20** *(0.79)*	**0,50** *(1.1)*
VMDR10380	**BSPP 3/8**			**19** *(0.75)*	**18** *(0.71)*	

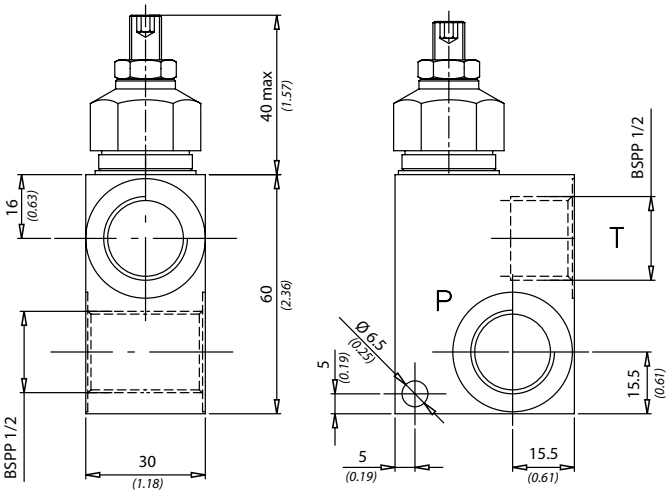
VMDR40

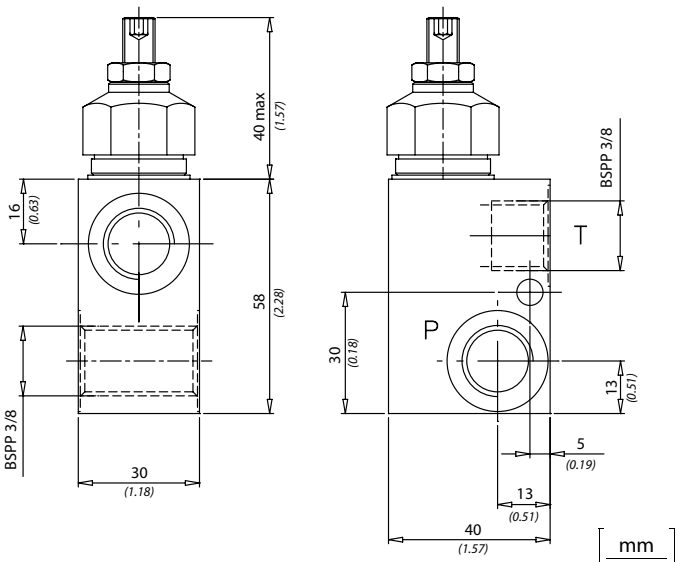
Valvole di massima pressione in linea
Direct acting relief valves



Dati tecnici *Technical data*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*
Classe di contaminazione *Filtration*	ISO code 16/13 *SAE class 4 or better*
Temperatura fluido *Fluid temperature*	-20°C +80°C *-4°F + 176°F*
Temperatura ambiente *Ambient temperature*	-20°C +50°C *-4°F +122°F*

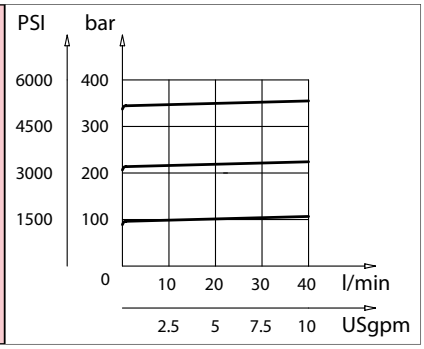


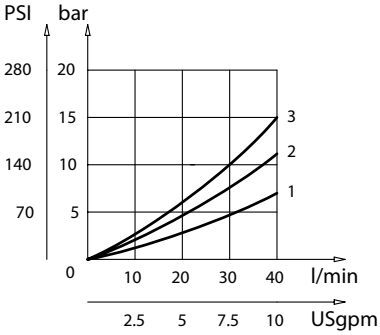




mm
(Inches)

Perdite di carico
Pressure drops





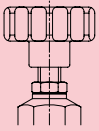
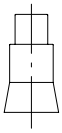
Caratteristiche tecniche *Technical performances*			
Codice *Code*	Portata Max *Max flow* l/min - *USgpm*	Pressione Max *Max pressure* bar/*PSI*	Peso approssimativo *Approx weight* Kg / *lb*
VMDR40380	**40** *(10)*	**300** *(4350)*	**0,50** *(1.1)*
VMDR40120			**0,53** *(1.2)*

Codice ordinazione
Ordering code

VMDR40 - X - Y - K

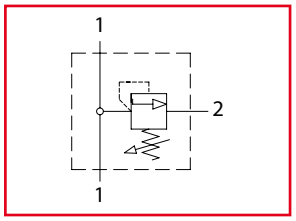
X	Dimensione / *Size*
380	**BSPP 3/8**
120	**BSPP 1/2**

K	Molla - *Spring*
1	**110 bar** *(1450 PSI)* max
2	**210 bar** *(3000 PSI)* max
3	**300 bar** *(4350 PSI)* max

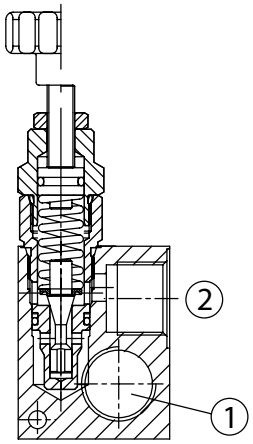
Y	Regolazione / *Setting*
C	
V	
S	

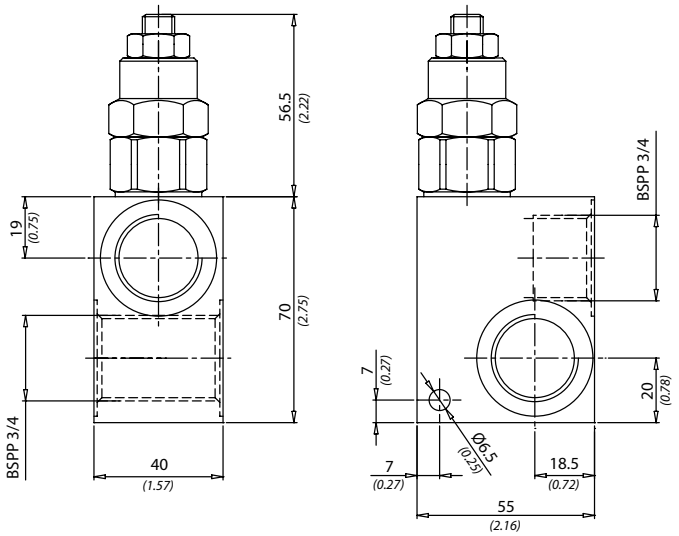
VMDR90

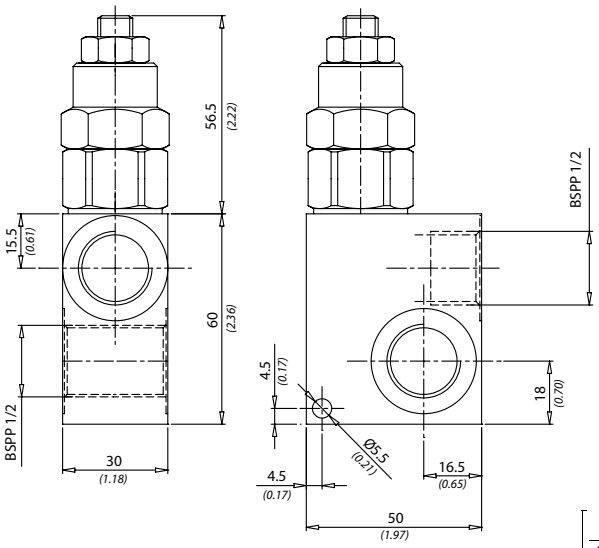
Valvole di massima pressione in linea
Direct acting relief valves



Dati tecnici *Technical data*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*
Classe di contaminazione *Filtration*	ISO code 16/13 *SAE class 4 or better*
Temperatura fluido *Fluid temperature*	-20°C +80°C *-4°F + 176°F*
Temperatura ambiente *Ambient temperature*	-20°C +50°C *-4°F +122°F*

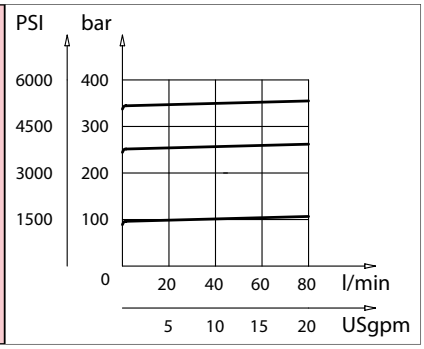


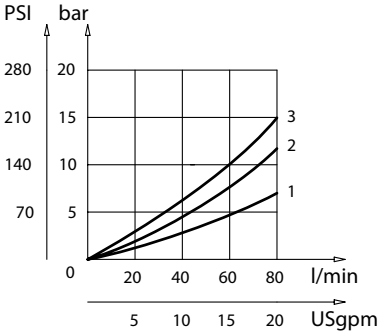




mm
(Inches)

Perdite di carico
Pressure drops





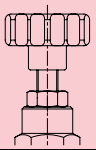
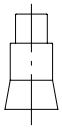
Caratteristiche tecniche *Technical performances*			
Codice *Code*	Portata Max *Max flow* l/min - *USgpm*	Pressione Max *Max pressure* bar/*PSI*	Peso approssimativo *Approx weight* Kg / *lb*
VMDR90120	**80** *(20)*	**350** *(5000)*	**0,67** *(1.5)*
VMDR90340			**1** *(2.2)*

Codice ordinazione
Ordering code

VMDR90 - X - Y - K

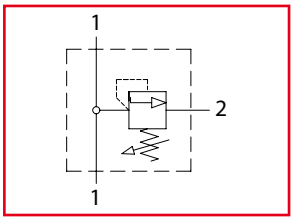
X	Dimensione / *Size*
120	**BSPP 1/2**
340	**BSPP 3/4**

K	Molla - *Spring*
1	**100 bar** *(1450 PSI)* max
2	**250 bar** *(3500 PSI)* max
3	**350 bar** *(5000 PSI)* max

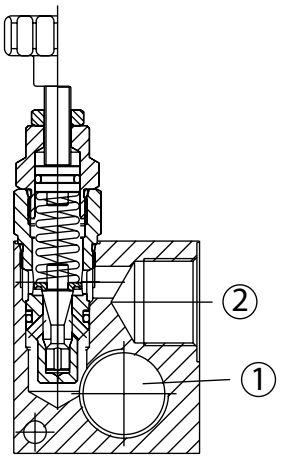
Y	Regolazione / *Setting*
C	
V	
S	

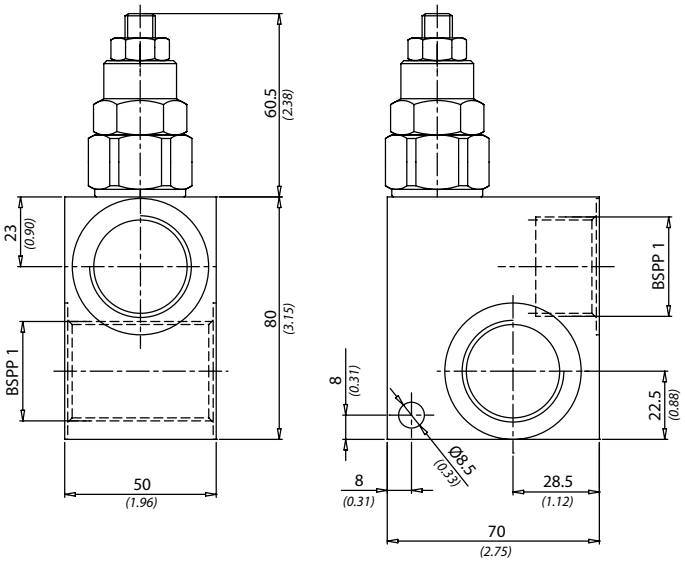
VMDR120

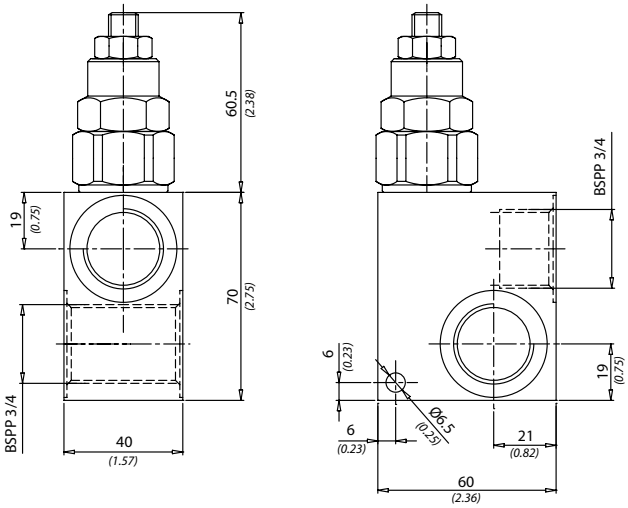
Valvole di massima pressione in linea
Direct acting relief valves



Dati tecnici *Technical data*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*
Classe di contaminazione *Filtration*	ISO code 16/13 *SAE class 4 or better*
Temperatura fluido *Fluid temperature*	-20°C +80°C *-4°F + 176°F*
Temperatura ambiente *Ambient temperature*	-20°C +50°C *-4°F +122°F*

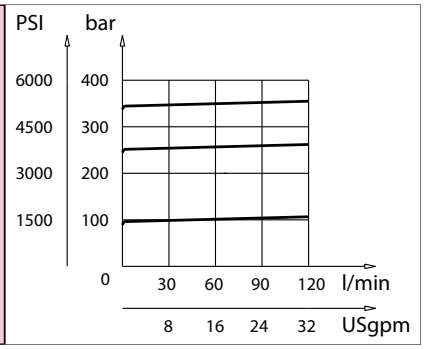


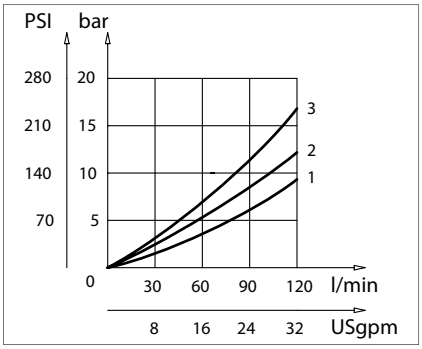




mm
(Inches)

Perdite di carico
Pressure drops





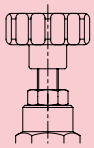
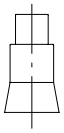
Caratteristiche tecniche *Technical performances*			
Codice *Code*	Portata Max *Max flow* l/min - *USgpm*	Pressione Max *Max pressure* bar/*PSI*	Peso approssimativo *Approx weight* Kg / *lb*
VMDR120340	**120** *(30)*	**350** *(5000)*	**1,1** *(2.42)*
VMDR120100			**1,72** *(3.8)*

Codice ordinazione
Ordering code

VMDR120 - X - Y - K

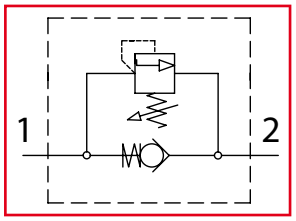
X	Dimensione / *Size*
340	**BSPP 3/4**
100	**BSPP 1**

K	Molla - *Spring*
1	**100 bar** *(1450 PSI)* max
2	**250 bar** *(3500 PSI)* max
3	**350 bar** *(5000 PSI)* max

Y	Regolazione / *Setting*
C	
V	
S	

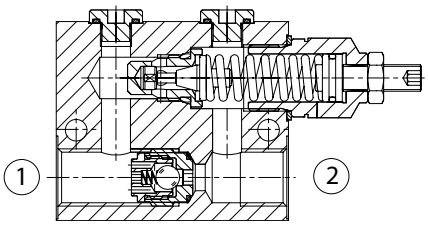
VSL

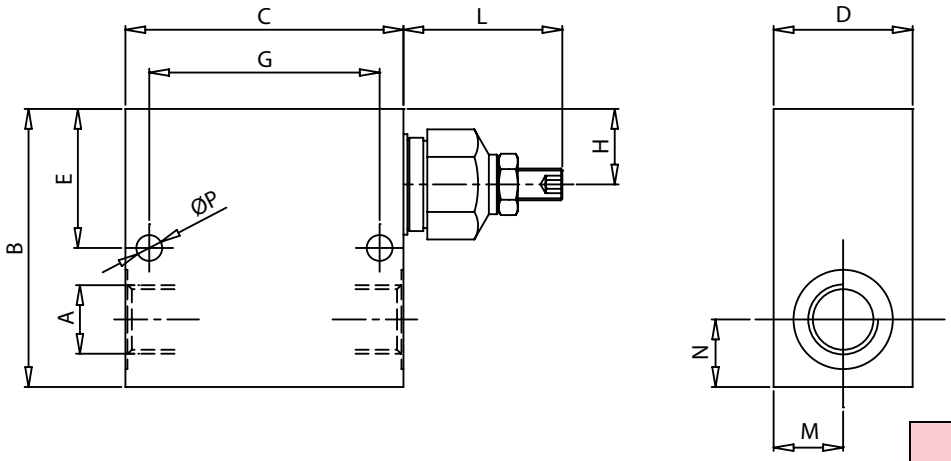
Valvole in sequenza dirette
In-line direct sequence valves



Dati tecnici
Technical data

Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*
Classe di contaminazione *Filtration*	ISO code 16/13 *SAE class 4 or better*
Temperatura fluido *Fluid temperature*	-20°C +80°C *-4°F + 176°F*
Temperatura ambiente *Ambient temperature*	-20°C +50°C *-4°F +122°F*





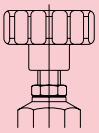
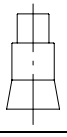
mm
(Inches)

Codice ordinazione
Ordering code

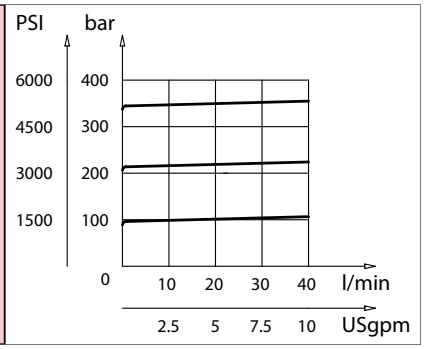
VSL - X - Y - K

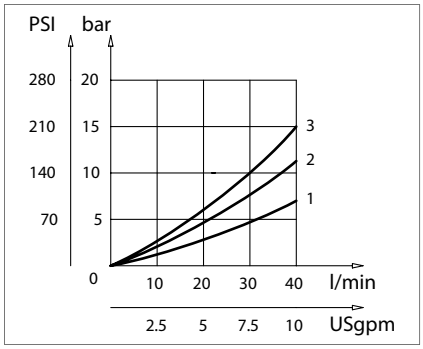
X	Dimensione / *Size*
140	**BSPP 1/4**
380	**BSPP 3/8**
120	**BSPP 1/2**

K	Molla - *Spring*
1	**100 bar** *(1450 PSI)* max
2	**210 bar** *(3000 PSI)* max
3	**300 bar** *(4350 PSI)* max

Y	Regolazione / *Setting*
C	
V	
S	

Perdite di carico
Pressure drops



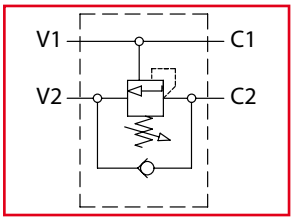


Caratteristiche tecniche
Technical performances

Codice *Code*	A	Portata Max *Max flow* l/min - *USgpm*	Pressione Max *Max pressure* bar/*PSI*	B	C	D	E	G	L	M	N	H	P	Peso approssimativo *Approx weight* Kg / *lb*
VSL140	**BSPP 1/4**	**40** *(10)*	**300** *(4350)*	**60** *(2.36)*	**65** *(2.56)*	**30** *(1.18)*	**35** *(1.38)*	**46** *(1.81)*	**49,5** *(1.95)*	**15** *(0.59)*	**13** *(0.51)*	**18** *(0.71)*	**5,5** *(0.22)*	**0,89** *(2)*
VSL380	**BSPP 3/8**				**70** *(2.76)*		**32.5** *(1.28)*	**58** *(2.28)*	**38** *(1.50)*			**17** *(0.67)*	**6,5** *(0.26)*	
VSL120	**BSPP 1/2**			**70** *(2.76)*		**35** *(1.38)*	**35** *(1.38)*			**17,5** *(0.69)*	**17** *(0.67)*	**19** *(0.75)*		**1,20** *(2.70)*

VBCL

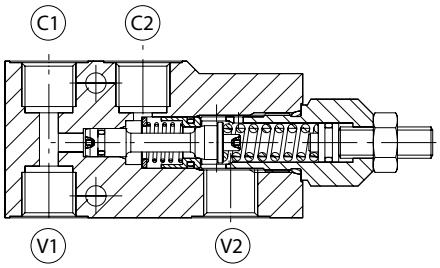
Valvole overcenter singole per centro aperto
Single counterbalance valves for open center

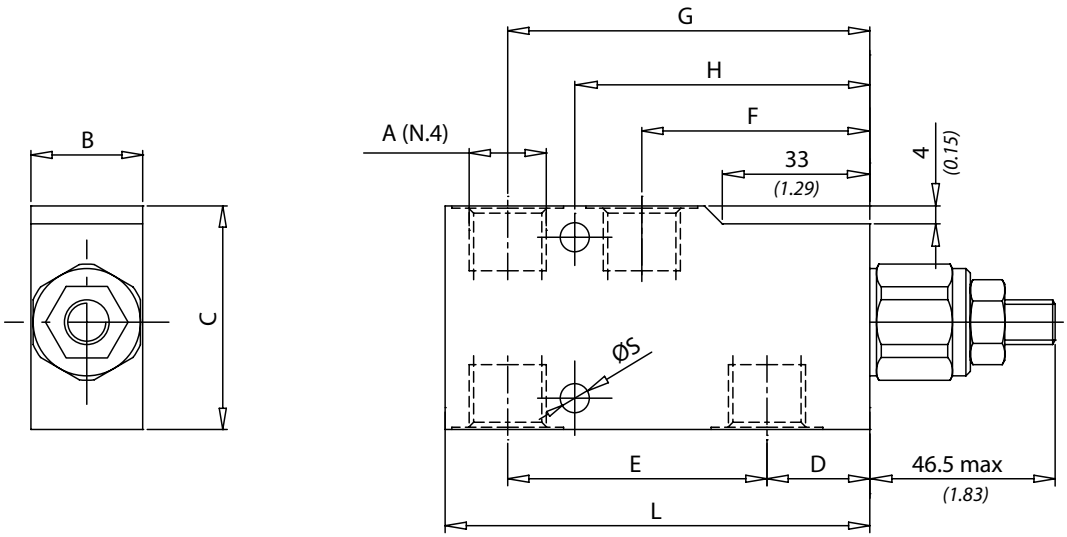


Dati tecnici
Technical data

Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*
Classe di contaminazione *Filtration*	ISO code 16/13 *SAE class 4 or better*
Temperatura fluido *Fluid temperature*	-20°C +80°C *-4°F + 176°F*
Temperatura ambiente *Ambient temperature*	-20°C +50°C *-4°F +122°F*

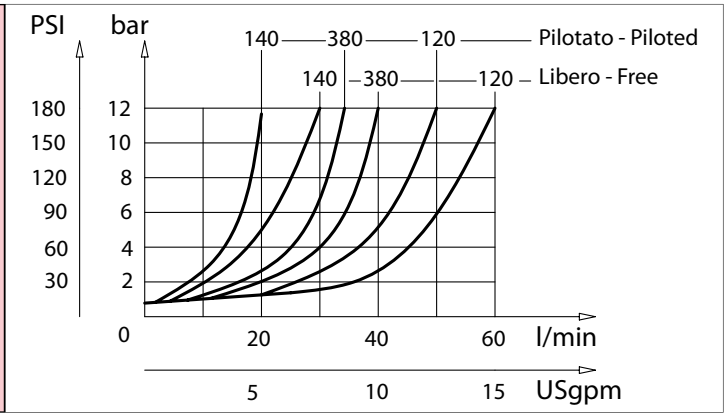
Settaggio valvola di massima: almeno 1,3 volte il carico più alto usato.
Relief valve setting: at least 1.3 times the highest expected load.





mm
(Inches)

Perdite di carico
Pressure drops



Codice ordinazione
Ordering code

VBCL - X - Y - K - Z

X	Dimensione / *Size*	K	Materiale / *Material*	Z	Optional
140	**BSPP 1/4**	S	**Corpo in acciaio** *(Steel body)*	S	
380	**BSPP 3/8**				
120	**BSPP 1/2**				

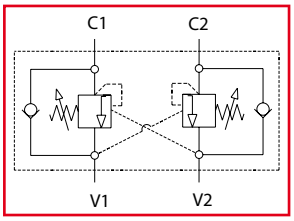
Y	Molla - *Spring*	Incremento pressione al giro *Press. increase*	Taratura standard *Std. setting* (Q=5 l/min)
1	**30/210 bar** *(400/3000 PSI)*	**70 bar/turn** *(1000 PSI/turn)*	**200 bar** *(2900 PSI)*
2	**60/350 bar** *(850/3500 PSI)*	**120 bar/turn** *(1700 PSI/turn)*	**350 bar** *(5000 PSI)*

Caratteristiche tecniche
Technical performances

Codice *Code*	A	Portata Max *Max flow* l/min - *USgpm*	Pressione Max *Max pressure* bar/*PSI*	B	C	D	E	F	G	H	L	S	Peso approssimativo *Approx weight* Kg / *lb*	Rapporto di pilotaggio *Pilot ratio*
VBCL140	**BSPP 1/4**	**30** *(8)*	**350** *(5000)*	**25** *(0.98)*	**50** *(1.97)*	**23** *(0.90)*	**58** *(2.28)*	**51** *(2)*	**81** *(3.19)*	**66** *(2.60)*	**95** *(3.74)*	**6,5** *(0.26)*	**0,85** *(1.90)*	**1:4.25**
VBCL380	**BSPP 3/8**	**40** *(10.5)*												
VBCL120	**BSPP 1/2**	**60** *(16)*		**30** *(1.18)*	**60** *(2.36)*	**21** *(0.83)*	**63** *(2.48)*		**84** *(3.30)*	**67,5** *(2.66)*	**100** *(3.94)*		**1,25** *(2.75)*	

VBCD

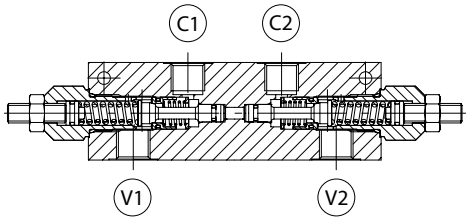
Valvole overcenter doppie per centro aperto
Dual counterbalance valves for open center

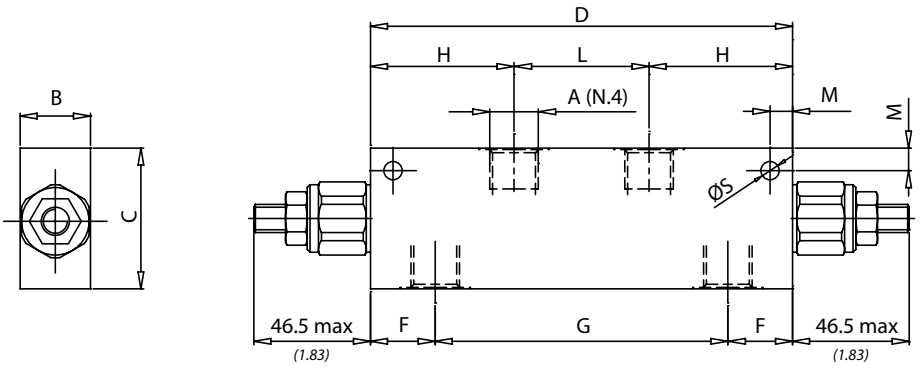


Dati tecnici
Technical data

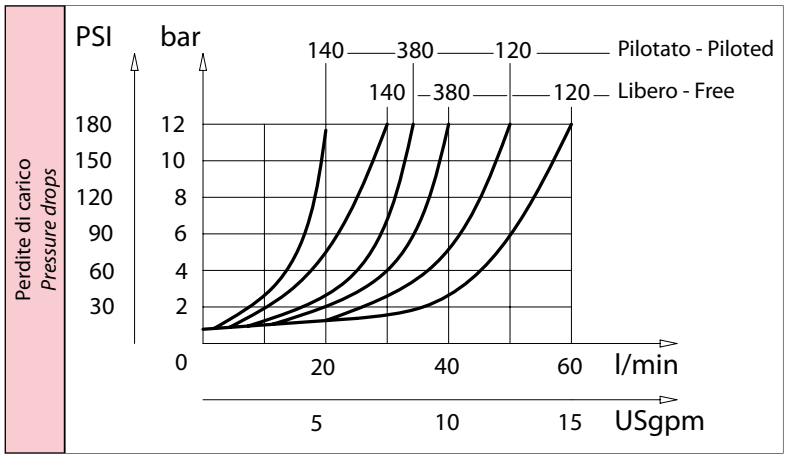
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*
Classe di contaminazione *Filtration*	ISO code 16/13 *SAE class 4 or better*
Temperatura fluido *Fluid temperature*	-20°C +80°C *-4°F + 176°F*
Temperatura ambiente *Ambient temperature*	-20°C +50°C *-4°F +122°F*

Settaggio valvola di massima: almeno 1,3 volte il carico più alto usato.
Relief valve setting: at least 1.3 times the highest expected load.





mm
(Inches)



Codice ordinazione
Ordering code

VBCD - X - Y - K - Z

X	Dimensione / *Size*	K	Materiale / *Material*	Z	Optional
140	**BSPP 1/4**	S	**Corpo in acciaio** *(Steel body)*	S	
380	**BSPP 3/8**				
120	**BSPP 1/2**				

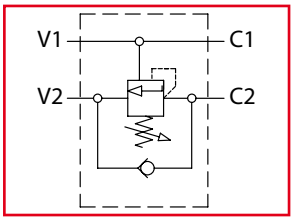
Y	Molla - *Spring*	Incremento pressione al giro *Press. increase*	Taratura standard *Std. setting* (Q=5 l/min)
1	**30/210 bar** *(400/3000 PSI)*	**70 bar/turn** *(1000 PSI/turn)*	**200 bar** *(2900 PSI)*
2	**60/350 bar** *(850/3500 PSI)*	**120 bar/turn** *(1700 PSI/turn)*	**350 bar** *(5000 PSI)*

Caratteristiche tecniche
Technical performances

Codice *Code*	A	Portata Max *Max flow* l/min - *USgpm*	Pressione Max *Max pressure* bar/*PSI*	B	C	D	F	G	H	L	M	S	Peso approssimativo *Approx weight* Kg / *lb*	Rapporto di pilotaggio *Pilot ratio*
VBCD140	**BSPP 1/4**	**30** *(8)*	**350** *(5000)*	**25** *(0.98)*	**50** *(1.97)*	**150** *(5.90)*	**23** *(0.90)*	**104** *(4.09)*	**51** *(2)*	**48** *(1.89)*	**8** *(0.32)*	**6,5** *(0.26)*	**1,5** *(3.3)*	**1:4.25**
VBCD380	**BSPP 3/8**	**40** *(10.5)*												
VBCD120	**BSPP 1/2**	**60** *(16)*		**30** *(1.18)*	**60** *(2.36)*		**21** *(0.83)*	**108** *(4.25)*					**2** *(4.4)*	

VBCB

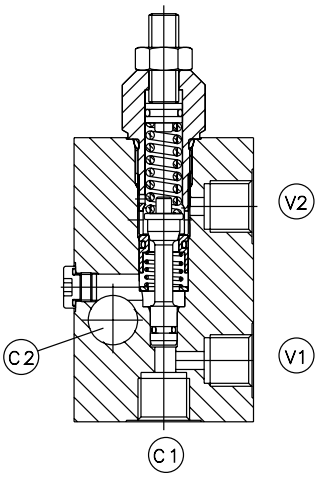
Valvole overcenter singola a bullone per centro aperto
Bolt-fitting single counterbalance valves for open center

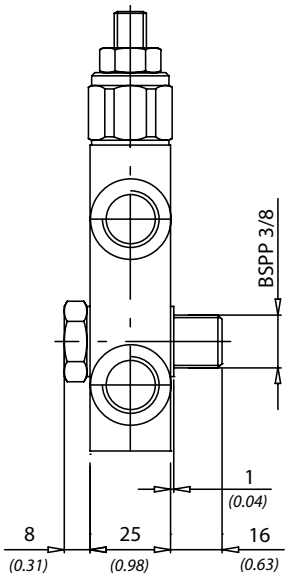


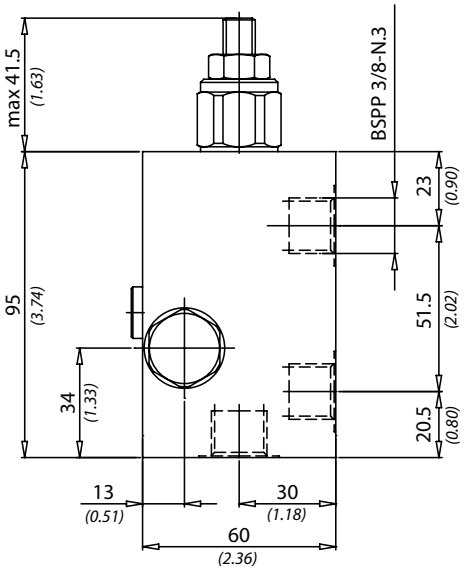
Dati tecnici
Technical data

Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*
Classe di contaminazione *Filtration*	ISO code 16/13 *SAE class 4 or better*
Temperatura fluido *Fluid temperature*	-20°C +80°C *-4°F + 176°F*
Temperatura ambiente *Ambient temperature*	-20°C +50°C *-4°F +122°F*

Settaggio valvola di massima: almeno 1,3 volte il carico più alto usato.
Relief valve setting: at least 1.3 times the highest expected load.

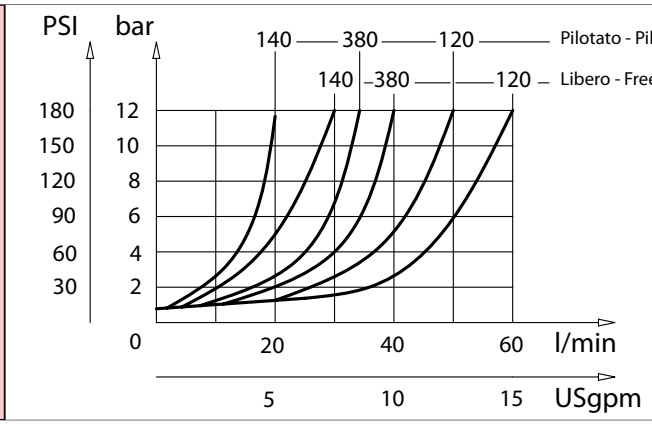






mm
(Inches)

Perdite di carico
Pressure drops



Caratteristiche tecniche
Technical performances

Codice *Code*	A	Portata Max *Max flow* l/min - *USgpm*	Pressione Max *Max pressure* bar/*PSI*	Peso approssimativo *Approx weight* Kg / *lb*	Rapporto di pilotaggio *Pilot ratio*
VBCB380	**BSPP 3/8**	**40** *(10.5)*	**350** *(5000)*	**1,1** *(2.5)*	**1:4.25**

Codice ordinazione
Ordering code

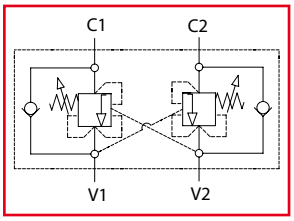
VBCB - X - Y - K - Z

X	Dimensione / *Size*	K	Materiale / *Material*	Z	Optional
380	**BSPP 3/8**	**S**	**Corpo in acciaio** *(Steel body)*	**S**	

Y	Molla - *Spring*	Incremento pressione al giro *Press. increase*	Taratura standard *Std. setting* (Q=5 l/min)
1	**30/210 bar** *(400/3000 PSI)*	**70 bar/turn** *(1000 PSI/turn)*	**200 bar** *(2900 PSI)*
2	**60/350 bar** *(850/3500 PSI)*	**120 bar/turn** *(1700 PSI/turn)*	**350 bar** *(5000 PSI)*

VBCC

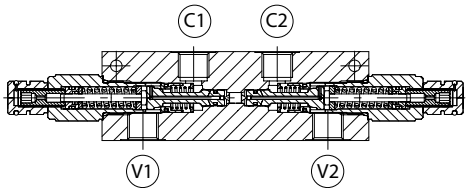
Valvole overcenter doppie per centro chiuso
Dual counterbalance valves for closed center

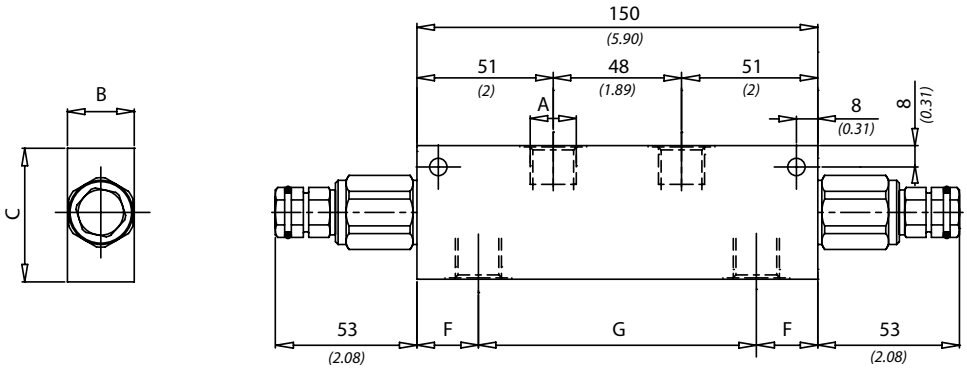


Dati tecnici
Technical data

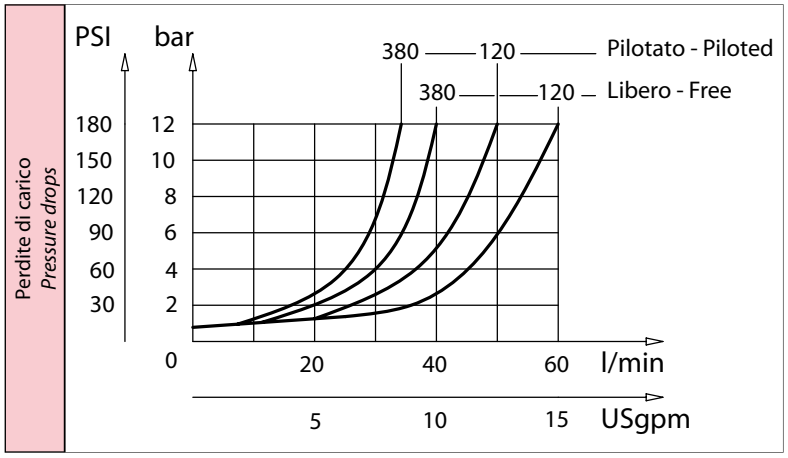
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*
Classe di contaminazione *Filtration*	ISO code 16/13 *SAE class 4 or better*
Temperatura fluido *Fluid temperature*	-20°C +80°C *-4°F + 176°F*
Temperatura ambiente *Ambient temperature*	-20°C +50°C *-4°F +122°F*

Settaggio valvola di massima: almeno 1,3 volte il carico più alto usato.
Relief valve setting: at least 1.3 times the highest expected load.





mm
(Inches)



Codice ordinazione
Ordering code

VBCC - X - Y - K

X	Dimensione / *Size*	K	Materiale / *Material*
140	**BSPP 1/4**	S	**Corpo in acciaio** *(Steel body)*
380	**BSPP 3/8**		
120	**BSPP 1/2**		

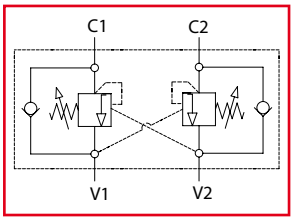
Y	Molla - *Spring*	Incremento pressione al giro *Press. increase*	Taratura standard *Std. setting* (Q=5 l/min)
1	**30/210 bar** *(400/3000 PSI)*	**70 bar/turn** *(1000 PSI/turn)*	**200 bar** *(2900 PSI)*
2	**60/350 bar** *(850/3500 PSI)*	**120 bar/turn** *(1700 PSI/turn)*	**350 bar** *(5000 PSI)*

Caratteristiche tecniche
Technical performances

Codice *Code*	A	**Portata Max** *Max flow* l/min - *USgpm*	**Pressione Max** *Max pressure* bar/*PSI*	F	G	Peso approssimativo *Approx weight* Kg / *lb*	Rapporto di pilotaggio *Pilot ratio*
VBCC140	**BSPP 1/4**	**30** *(8)*	**350** *(5000)*	**23** *(0.90)*	**104** *(4.09)*	**1,5** *(3.3)*	**1:4.25**
VBCC380	**BSPP 3/8**	**40** *(10.5)*					
VBCC120	**BSPP 1/2**	**60** *(16)*		**21** *(0.83)*	**108** *(4.25)*	**2,1** *(4.6)*	

VBCF

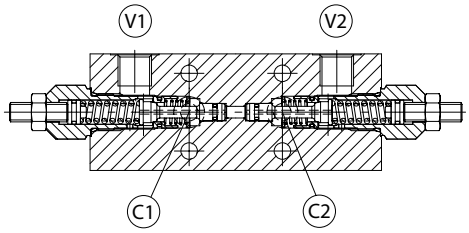
Valvole overcenter doppie per centro aperto
Dual counterbalance valves for open center

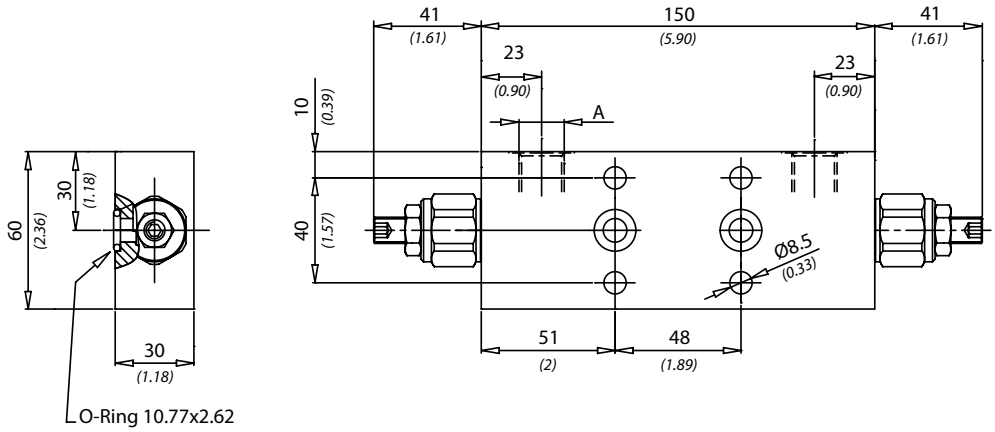


Dati tecnici
Technical data

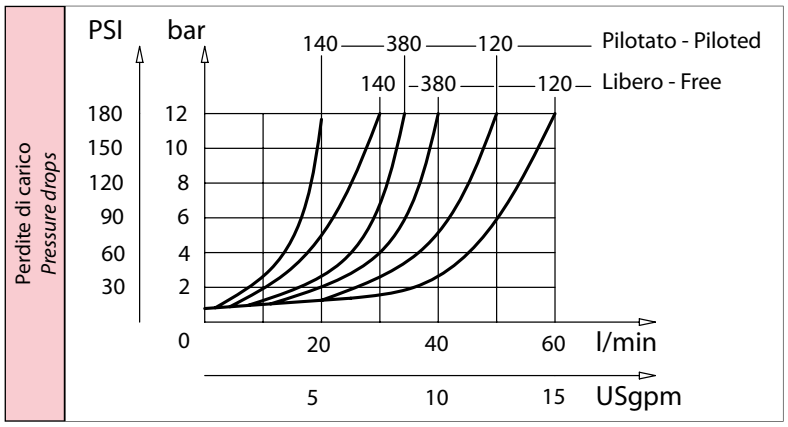
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*
Classe di contaminazione *Filtration*	ISO code 16/13 *SAE class 4 or better*
Temperatura fluido *Fluid temperature*	-20°C +80°C *-4°F + 176°F*
Temperatura ambiente *Ambient temperature*	-20°C +50°C *-4°F +122°F*

Settaggio valvola di massima: almeno 1,3 volte il carico più alto usato.
Relief valve setting: at least 1.3 times the highest expected load.





mm
(Inches)



Caratteristiche tecniche
Technical performances

Codice *Code*	A	Portata Max *Max flow* l/min - *USgpm*	Pressione Max *Max pressure* bar/*PSI*	Peso approssimativo *Approx weight* Kg / *lb*	Rapporto di pilotaggio *Pilot ratio*
VBCF140	**BSPP 1/4**	**40** *(10.5)*	**350** *(5000)*	**2** *(4.4)*	**1:4.25**
VBCF380	**BSPP 3/8**				
VBCF120	**BSPP 1/2**	**60** *(16)*			

Codice ordinazione
Ordering code

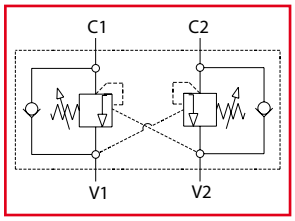
VBCF - X - Y - K - Z

X	Dimensione / *Size*	**K**	Materiale / *Material*	**Z**	Optional
140	**BSPP 1/4**	**S**	**Corpo in acciaio** *(Steel body)*	**S**	
380	**BSPP 3/8**				
120	**BSPP 1/2**				

Y	Molla - *Spring*	Incremento pressione al giro *Press. increase*	Taratura standard *Std. setting* (Q=5 l/min)
1	**30/210 bar** *(400/3000 PSI)*	**70 bar/turn** *(1000 PSI/turn)*	**200 bar** *(2900 PSI)*
2	**60/350 bar** *(850/3500 PSI)*	**120 bar/turn** *(1700 PSI/turn)*	**350 bar** *(5000 PSI)*

VBCG

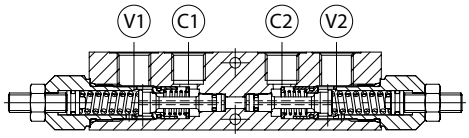
Valvole overcenter doppie per centro aperto
Dual counterbalance valves for open center

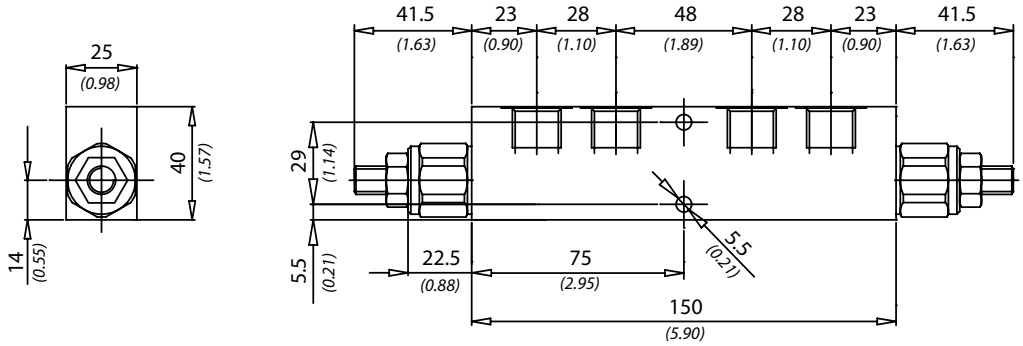


Dati tecnici
Technical data

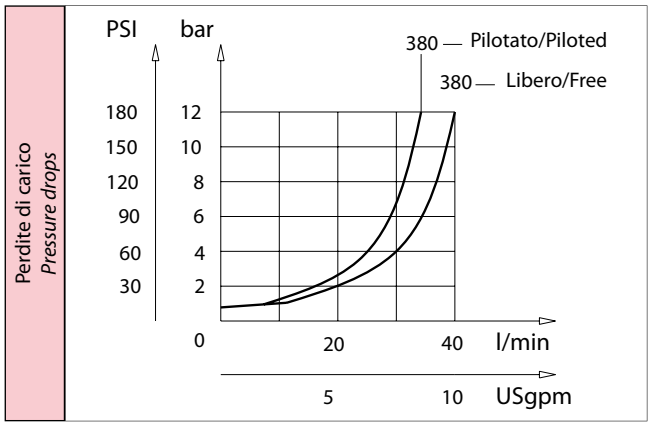
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*
Classe di contaminazione *Filtration*	ISO code 16/13 *SAE class 4 or better*
Temperatura fluido *Fluid temperature*	-20°C +80°C *-4°F + 176°F*
Temperatura ambiente *Ambient temperature*	-20°C +50°C *-4°F +122°F*

Settaggio valvola di massima: almeno 1,3 volte il carico più alto usato.
Relief valve setting: at least 1.3 times the highest expected load.





mm
(Inches)

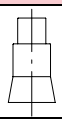


Caratteristiche tecniche
Technical performances

Codice *Code*	Portata Max *Max flow* l/min - *USgpm*	Pressione Max *Max pressure* bar/*PSI*	Peso approssimativo *Approx weight* Kg / *lb*	Rapporto di pilotaggio *Pilot ratio*
VBCG380	**40** *(10.5)*	**210** *(3000)*	**0,7** *(1.55)*	**1:4.25**

Codice ordinazione
Ordering code

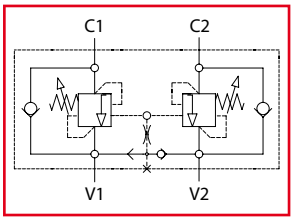
VBCG - X - Y - K - Z

X	Dimensione / *Size*	K	Materiale / *Material*	Z	Optional
380	**BSPP 3/8**	**S**	**Corpo in alluminio** *(Aluminium body)*	**S**	

Y	Molla - *Spring*	Incremento pressione al giro *Press. increase*	Taratura standard *Std. setting* (Q=5 l/min)
1	**30/210 bar** *(400/3000 PSI)*	**70 bar/turn** *(1000 PSI/turn)*	**200 bar** *(2900 PSI)*
2	**60/350 bar** *(850/3500 PSI)*	**120 bar/turn** *(1700 PSI/turn)*	**350 bar** *(5000 PSI)*

VBCE

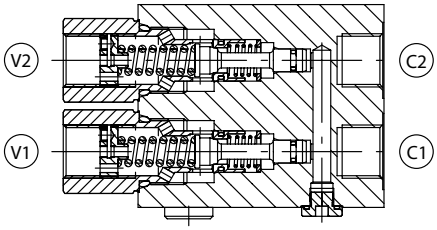
Valvole overcenter doppio effetto
Dual counterbalance valves for open center

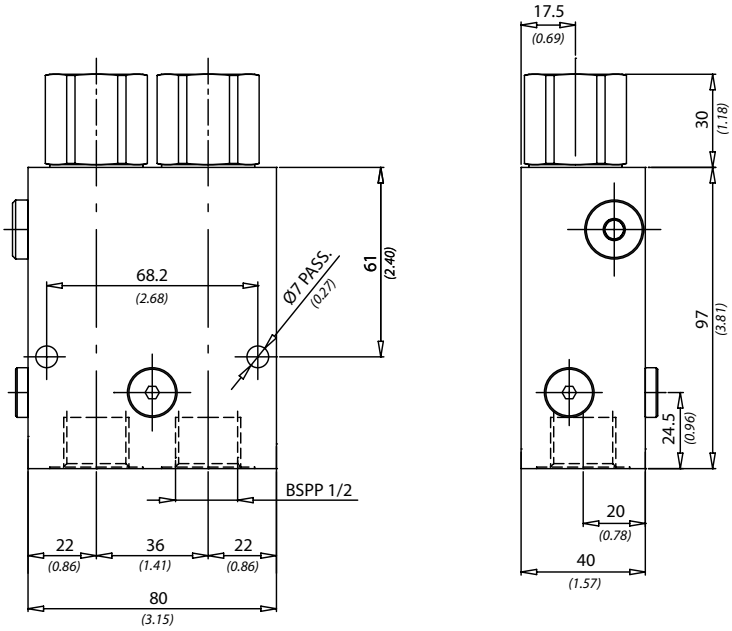


Dati tecnici
Technical data

Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*
Classe di contaminazione *Filtration*	ISO code 16/13 *SAE class 4 or better*
Temperatura fluido *Fluid temperature*	-20°C +80°C *-4°F + 176°F*
Temperatura ambiente *Ambient temperature*	-20°C +50°C *-4°F +122°F*

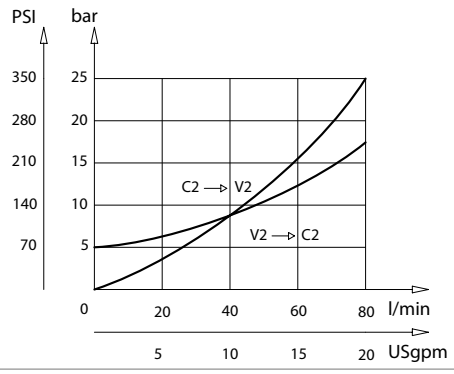
Settaggio valvola di massima: almeno 1,3 volte il carico più alto usato.
Relief valve setting: at least 1.3 times the highest expected load.





mm
(Inches)

Perdite di carico
Pressure drops



Caratteristiche tecniche
Technical performances

Codice *Code*	Portata Max *Max flow* l/min - *USgpm*	Pressione Max *Max pressure* bar/*PSI*	Peso approssimativo *Approx weight* Kg / *lb*	Rapporto di pilotaggio *Pilot ratio*
VBCE120	**60** *(15)*	**350** *(5000)*	**2,3** *(5)*	**1:4.25**

Codice ordinazione
Ordering code

VBCE - X - Y - K

X	Dimensione / *Size*	K	Materiale / *Material*
120	**BSPP 1/2**	**S**	**Corpo in acciaio** *(Steel body)*

Y	Molla - *Spring*	Incremento pressione al giro *Press. increase*	Taratura standard *Std. setting* (Q=5 l/min)
1	**30/210 bar** *(400/3000 PSI)*	**70 bar/turn** *(1000 PSI/turn)*	**200 bar** *(2900 PSI)*
2	**60/350 bar** *(850/3500 PSI)*	**120 bar/turn** *(1700 PSI/turn)*	**350 bar** *(5000 PSI)*

Valvole a cartuccia

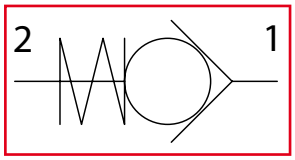
Cartridge valves

Oleoweb

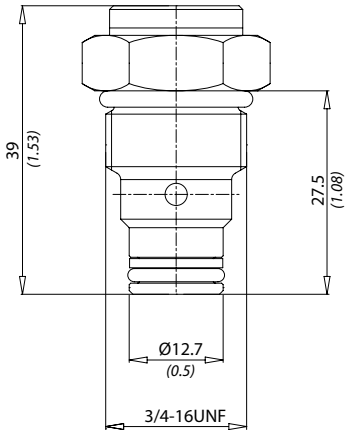
HYDRAULIC VALVES AND COMPONENTS

CUR6

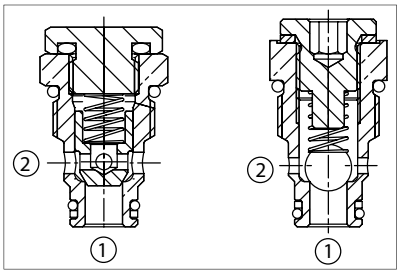
Valvole unidirezionali
Check valves



Dati tecnici *Technical data*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*
Classe di contaminazione *Filtration*	ISO code 16/13 *SAE class 4 or better*
Temperatura fluido *Fluid temperature*	-20°C +80°C *-4°F + 176°F*
Temperatura ambiente *Ambient temperature*	-20°C +50°C *-4°F +122°F*

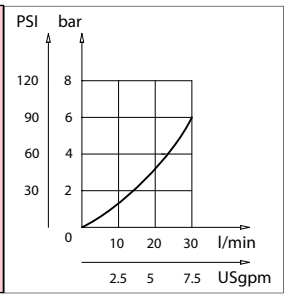


mm
(Inches)



Caratteristiche tecniche *Technical performances*					
Codice *Code*	Portata Max *Max flow* l/min - *USgpm*	Pressione Max *Max pressure* bar/*PSI*	Peso approssimativo *Approx weight* Kg / *lb*	Coppia di serraggio *Tightening torque* Nm / *lbf ft*	Cavità *Cavity*
CUR6	**25** *(6.5)*	**350** *(5000)*	**0,07** *(0.15)*	**25-30** *(19-22)*	**SAE8/2**

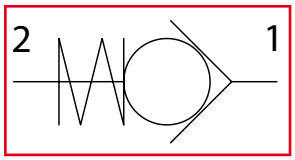
Perdite di carico *Pressure drops*



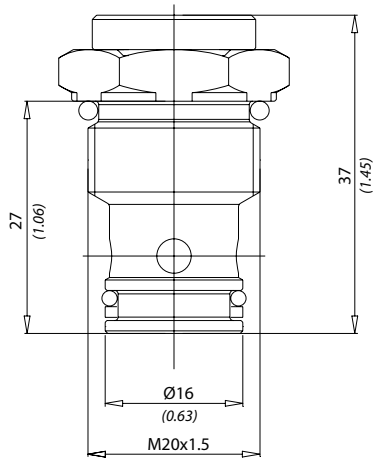
Codice ordinazione *Ordering code*			
CUR6 - X - Y			
X	Tenuta - Sealing	**Y**	Molla / *Spring*
SF	**Tenuta a sfera** *Ball sealing*	**1**	**1 bar** *(15 PSI)*
SP	**Tenuta a otturatore** *Poppet sealing*		

CUR2015

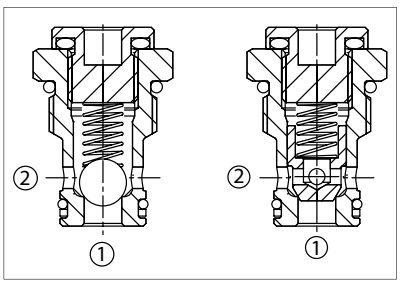
Valvole unidirezionali
Check valves



Dati tecnici *Technical data*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*
Classe di contaminazione *Filtration*	ISO code 16/13 *SAE class 4 or better*
Temperatura fluido *Fluid temperature*	-20°C +80°C *-4°F + 176°F*
Temperatura ambiente *Ambient temperature*	-20°C +50°C *-4°F +122°F*

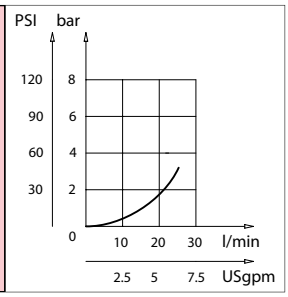


mm
(Inches)



Caratteristiche tecniche *Technical performances*					
Codice *Code*	Portata Max *Max flow* l/min - *USgpm*	Pressione Max *Max pressure* bar/*PSI*	Peso approssimativo *Approx weight* Kg / *lb*	Coppia di serraggio *Tightening torque* Nm / *lbf ft*	Cavità *Cavity*
CUR2015	**25** *(6.5)*	**350** *(5000)*	**0,07** *(0.15)*	**25-30** *(19-22)*	**C2015/2**

Perdite di carico *Pressure drops*

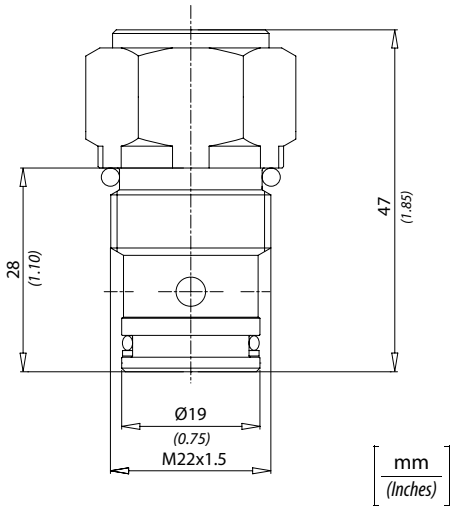


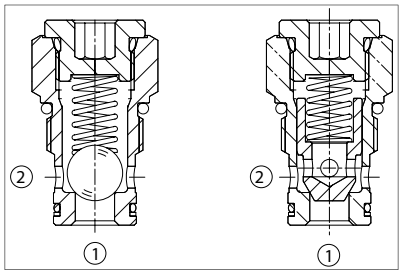
Codice ordinazione *Ordering code*			
CUR2015 - X - Y			
X	Tenuta - Sealing	**Y**	Molla / *Spring*
SF	**Tenuta a sfera** *Ball sealing*	**1**	**1 bar** *(15 PSI)*
SP	**Tenuta a otturatore** *Poppet sealing*		

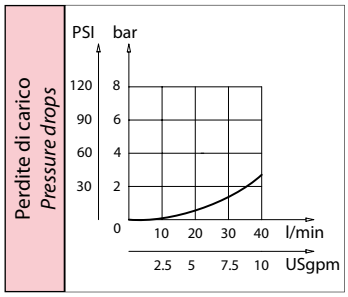
CUR2215

Valvole unidirezionali
Check valves

Dati tecnici *Technical data*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*
Classe di contaminazione *Filtration*	ISO code 16/13 *SAE class 4 or better*
Temperatura fluido *Fluid temperature*	-20°C +80°C *-4°F + 176°F*
Temperatura ambiente *Ambient temperature*	-20°C +50°C *-4°F +122°F*







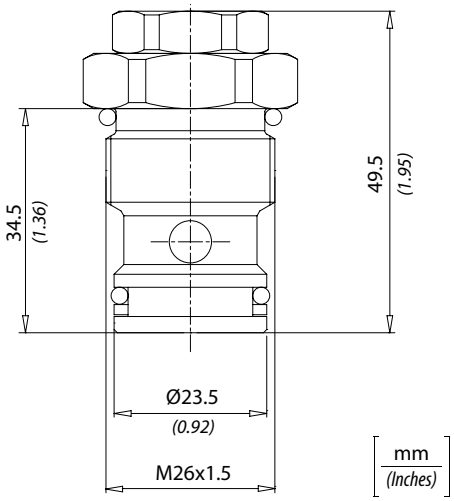
Caratteristiche tecniche *Technical performances*					
Codice *Code*	Portata Max *Max flow* l/min - *USgpm*	Pressione Max *Max pressure* bar/*PSI*	Peso approssimativo *Approx weight* Kg / *lb*	Coppia di serraggio *Tightening torque* Nm / *lbf ft*	Cavità *Cavity*
CUR2215	**40** *(10)*	**350** *(5000)*	**0,11** *(0.25)*	**45-50** *(33-37)*	**C2215/2**

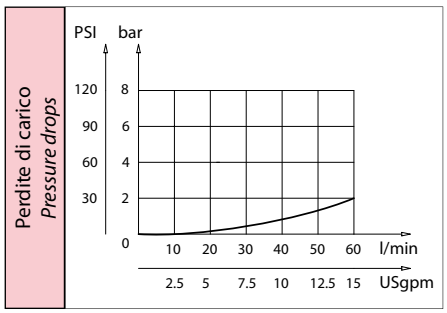
Codice ordinazione *Ordering code*			
CUR2215 - X - Y			
X	Tenuta - Sealing	**Y**	Molla / *Spring*
SF	**Tenuta a sfera** *Ball sealing*	**1**	**1 bar** *(15 PSI)*
SP	**Tenuta a otturatore** *Poppet sealing*		

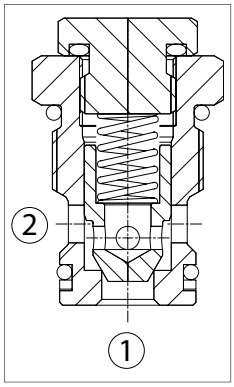
CUR2615

Valvole unidirezionali
Check valves

Dati tecnici *Technical data*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*
Classe di contaminazione *Filtration*	ISO code 16/13 *SAE class 4 or better*
Temperatura fluido *Fluid temperature*	-20°C +80°C *-4°F + 176°F*
Temperatura ambiente *Ambient temperature*	-20°C +50°C *-4°F +122°F*





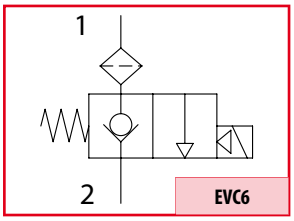


Caratteristiche tecniche *Technical performances*					
Codice *Code*	Portata Max *Max flow* l/min - *USgpm*	Pressione Max *Max pressure* bar/*PSI*	Peso approssimativo *Approx weight* Kg / *lb*	Coppia di serraggio *Tightening torque* Nm / *lbf ft*	Cavità *Cavity*
CUR2615	**60** *(15)*	**350** *(5000)*	**0,17** *(0.38)*	**55-60** *(41-45)*	**C2615/2**

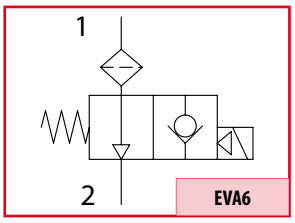
Codice ordinazione *Ordering code*			
CUR2615 - X - Y			
X	Tenuta - Sealing	**Y**	Molla / *Spring*
SP	**Tenuta a otturatore** *Poppet sealing*	**1**	**1 bar** *(15 PSI)*

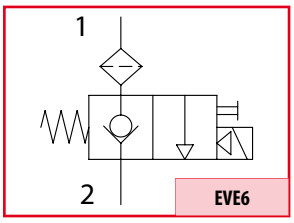
EV6

Valvole a comando elettrico 2 vie
2 ways cartridge eletric valves

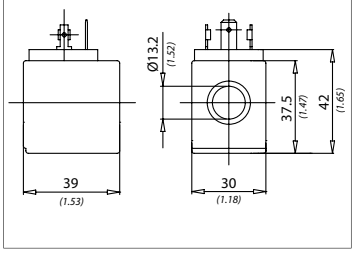


Dati tecnici *Technical data*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*
Classe di contaminazione *Filtration*	ISO code 16/13 *SAE class 4 or better*
Temperatura fluido *Fluid temperature*	-20°C +80°C *-4°F + 176°F*
Temperatura ambiente *Ambient temperature*	-20°C +50°C *-4°F +122°F*

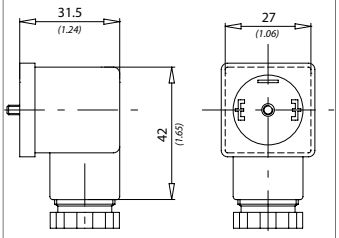




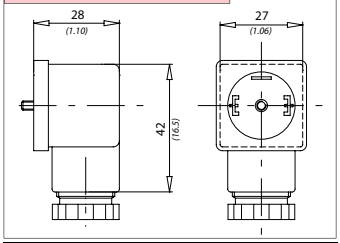
Bobina
Coil

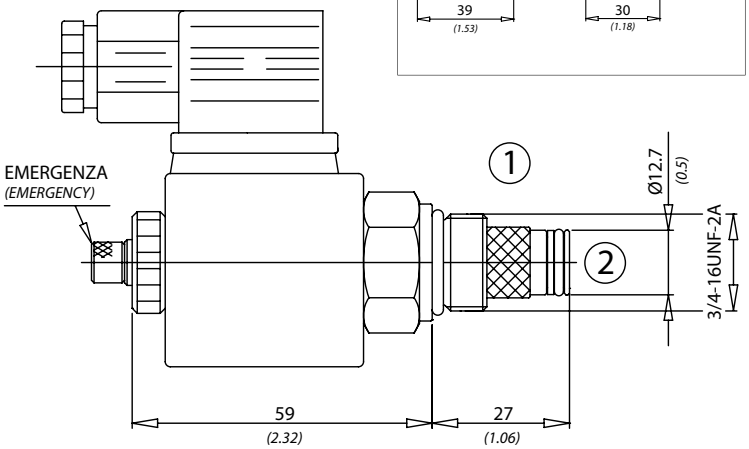


DIN 43650



DIN 43650





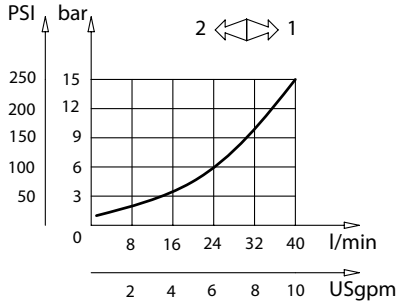
Connettore con raddrizzatore *Connector with rectifier*	
Portata nominale contatti *Nominal current*	10 A
Portata max contatti *Max operating current*	16 A
Resistenza contatti *Contact resistance*	≤ 4m Ohm
Sezione max conduttori *Max conductors cross-section*	1,5 mm^2
Portacontatti, dado *Contact holder*	PA
Tipo di serracavo *Gland size options*	Pg09
Diamentro cavo *Cable diameter*	6-8 mm
Grado di protezione *Protection class*	IP 65 EN 60529
Classe di isolamento *Insulation class*	VDE 0110-1/89
Guarnizione *Sealing material*	NBR
Temperatura di esercizio *Operating temperature*	-40C +90C

Connettore standard *Standard connector*	
Tensione nominale *Nominal voltage*	AC - Max 250 V DC - Max 300 V
Portata nominale contatti *Nominal current*	10 A
Portata max contatti *Max operating current*	16 A
Resistenza contatti *Contact resistance*	≤ 4m Ohm
Sezione max conduttori *Max conductors cross-section*	1,5 mm^2
Portacontatti, dado *Contact holder*	PA (+G)
Tipo di serracavo *Gland size options*	Pg09
Diamentro cavo *Cable diameter*	6-8 mm
Grado di protezione *Protection class*	IP 65 EN 60529
Classe di isolamento *Insulation class*	VDE 0110-1/89
Guarnizione *Sealing material*	NBR
Temperatura di esercizio *Operating temperature*	-40C +90C

Caratteristiche tecniche *Technical performances*	
Pressione max *Max pressure*	210 bar *3000 PSI*
Portata max *Max flow*	22 l/min *6 Usgpm*
Protezione *Protection*	IP65
Tolleranza di alimentazione *Feeding tolerance*	+ / - 10%
Inserimento *Energizing time*	ED 100%
Classe di isolamento *Insulation class*	H
Potenza assorbita in C.A. *Absorbed power in A.C.*	20 VA
Potenza assobita allo spunto *Absorbed power at pickup*	28 VA
Potenza assobita in C.C. *Absorbed power in C.C.*	18 W
Peso approsimativo *Approx weight*	0,28 Kg *0.61 lb*
Coppia di serraggio *Tightening torque*	25-30 Nm *19-22 lbf ft*
Cavità *Cavity*	SAE 8/2

mm
(Inches)

Perdite di carico
Pressure drops



Le prove sono state eseguite con solenoidi a temperatura di regime, sottoalimentati del 10% rispetto al valore nominale.
Tests carried out with solenoids at their working temperature, with a supply voltage 10% below the nominal value.

Codice ordinazione
Ordering code

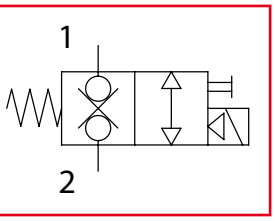
EV - X - Y

X	Schema - *Scheme*
C6	Normalmente chiusa *Normally closed*
E6	Normalmente chiusa + emerg. *Normally closed + emerg.*
A6	Normalmente aperta *Normally open*

Y	Voltaggio / *Voltage*
012DC	12 V (DC)
024DC	24 V (DC)
02450	24 V (50 HZ.)
11050	110 V (50 Hz.)
22050	220 V (50 HZ.)
024RAC	24 V (RAC)
110RAC	110 V (RAC)
220RAC	220 V (RAC)

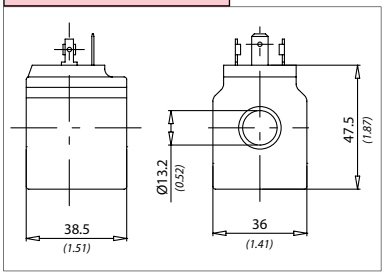
EDT

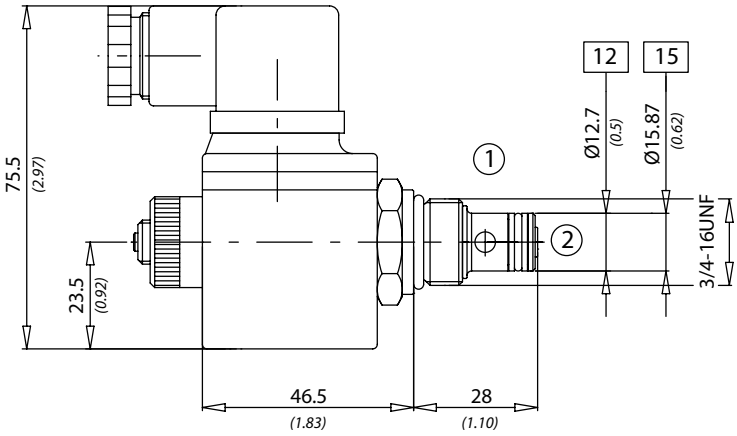
Valvole a comando elettrico 2 vie
2 ways cartridge eletric valves



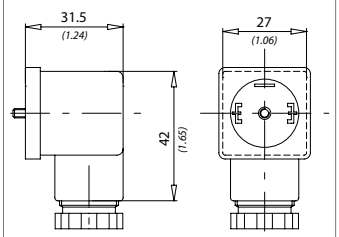
Dati tecnici *Technical data*	
Viscosità fluido *Fluid viscosity*	10-500 mm²/s *45 to 2000 ssu (6 to 420 cSt)*
Classe di contaminazione *Filtration*	ISO code 16/13 *SAE class 4 or better*
Temperatura fluido *Fluid temperature*	-20°C +80°C *-4°F + 176°F*
Temperatura ambiente *Ambient temperature*	-20°C +50°C *-4°F +122°F*

Bobina
Coils



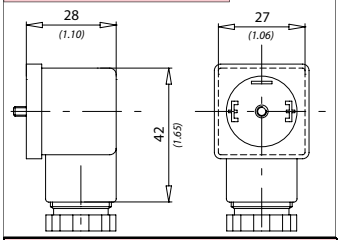


DIN 43650



Connettore con raddrizzatore *Connector with rectifier*	
Portata nominale contatti *Nominal current*	10 A
Portata max contatti *Max operating current*	16 A
Resistenza contatti *Contact resistance*	≤4m Ohm
Sezione max conduttori *Max conductors cross-section*	1,5 mm²
Portacontatti, dado *Contact holder*	PA
Tipo di serracavo *Gland size options*	Pg09
Diamentro cavo *Cable diameter*	6-8 mm
Grado di protezione *Protection class*	IP 65 EN 60529
Classe di isolamento *Insulation class*	VDE 0110-1/89
Guarnizione *Sealing material*	NBR
Temperatura di esercizio *Operating temperature*	-40C +90C

DIN 43650

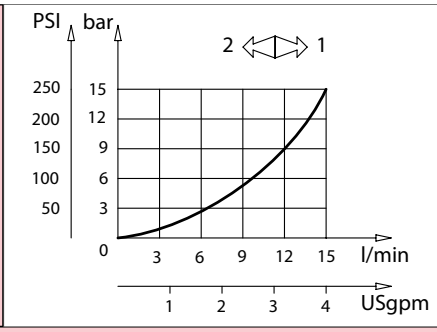


Connettore standard *Standard connector*	
Tensione nominale *Nominal voltage*	AC - Max 250 V DC - Max 300 V
Portata nominale contatti *Nominal current*	10 A
Portata max contatti *Max operating current*	16 A
Resistenza contatti *Contact resistance*	≤4m Ohm
Sezione max conduttori *Max conductors cross-section*	1,5 mm²
Protezione *Housing*	PA (+G)
Tipo di serracavo *Gland size options*	Pg09
Diamentro cavo *Cable diameter*	6-8 mm
Grado di protezione *Protection class*	IP 65 EN 60529
Classe di isolamento *Insulation class*	VDE 0110-1/89
Guarnizione *Sealing material*	NBR
Temperatura di esercizio *Operating temperature*	-40C +90C

Caratteristiche tecniche *Technical performances*	
Pressione max *Max pressure*	210 bar *3000 PSI*
Portata max *Max flow*	22 l/min *6 Usgpm*
Protezione *Protection*	IP65
Tolleranza di alimentazione *Feeding tolerance*	+ / - 10%
Inserimento *Energizing time*	ED 100%
Classe di isolamento *Insulation class*	H
Potenza assorbita in C.A. *Absorbed power in A.C.*	20 VA
Potenza assobita allo spunto *Absorbed power at pickup*	28 VA
Potenza assobita in C.C. *Absorbed power in C.C.*	18 W
Peso approsimativo *Approx weight*	0,28 Kg *0.61 lb*
Coppia di serraggio *Tightening torque*	25-30 Nm *19-22 lbf ft*
Cavità *Cavity*	SAE 8/2

mm
(Inches)

Perdite di carico
Pressure drops



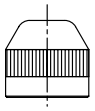
Le prove sono state eseguite con solenoidi a temperatura di regime, sottoalimentati del 10% rispetto al valore nominale.
Tests carried out with solenoids at their working temperature, with a supply voltage 10% below the nominal value.

Codice ordinazione
Ordering code

EDT6 - X - Y - K - Z

X	Schema - *Scheme*
EDT6	Normalmente chiusa + emerg. *Normally closed + emerg.*

Z	Optional
D	Dado di chiusura

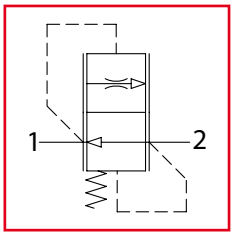


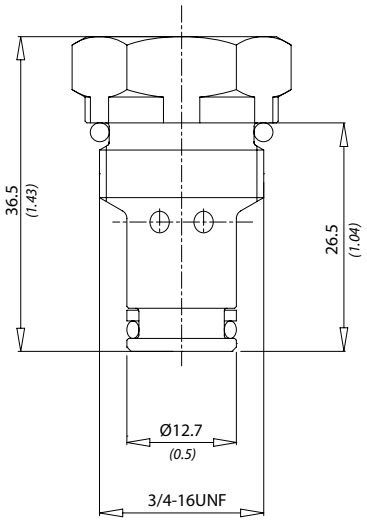
Y	Voltaggio / *Voltage*
012DC	12 V (DC)
024DC	24 V (DC)
024RAC	24 V (RAC)
110RAC	110 V (RAC)
220RAC	220 V (RAC)

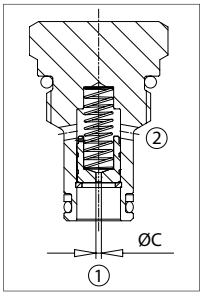
K	Dimensione / *Size*
12	Ø 12,7
15	Ø 15,87

VSC6

Valvole di controllo flusso compensate fisse
Fixed compensated flow control valves







Dati tecnici
Technical data

Viscosità fluido *Fluid viscosity*	10-500 mm²/s *45 to 2000 ssu (6 to 420 cSt)*
Classe di contaminazione *Filtration*	ISO code 16/13 *SAE class 4 or better*
Temperatura fluido *Fluid temperature*	-20°C +80°C *-4°F + 176°F*
Temperatura ambiente *Ambient temperature*	-20°C +50°C *-4°F +122°F*

Caratteristiche tecniche
Technical performances

Codice *Code*	Portata Max *Max flow* l/min - *USgpm*	Pressione Max *Max pressure* bar/*PSI*	Peso approssimativo *Approx weight* Kg / *lb*	Coppia di serraggio *Tightening torque* Nm / *lbf ft*	Cavità *Cavity*
VSC6	**12** *(3)*	**250** *(3600)*	**0,06** *(0.15)*	**25-30** *(19-22)*	**SAE8/2**

mm
(Inches)

Codice *Code*	Ø C
VSC61	**Ø 0,8** *(Ø 0.031)*
VSC62	**Ø 1** *(Ø 0.039)*
VSC63	**Ø 1,25** *(Ø 0.049)*
VSC64	**Ø 1,5** *(Ø 0.059)*
VSC65	**Ø 1,75** *(Ø 0.069)*
VSC66	**Ø 1,8** *(Ø 0.071)*
VSC67	**Ø 1,9** *(Ø 0.075)*
VSC68	**Ø 2** *(Ø 0.079)*
VSC69	**Ø 2,1** *(Ø 0.083)*
VSC610	**Ø 2,25** *(Ø 0.088)*
VSC611	**Ø 2,5** *(Ø 0.098)*
VSC612	**Ø 2,6** *(Ø 0.10)*

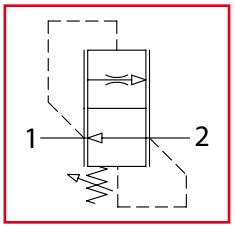
Codice ordinazione
Ordering code

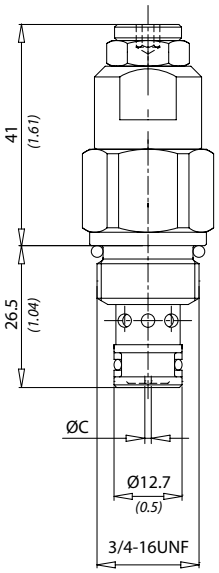
VSC6 - Y

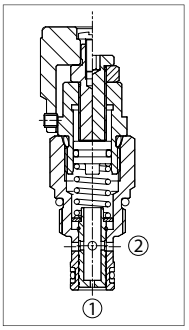
Y	Portata controllata a 100 bar ± 10% *Controlled flow at 100 bar ± 10 %*
1	**1 l/min** *(0.25 USgpm)*
2	**2 l/min** *(0.5 USgpm)*
3	**3 l/min** *(0.75 USgpm)*
4	**4 l/min** *(1 USgpm)*
5	**5 l/min** *(1.25 USgpm)*
6	**6 l/min** *(1.5 USgpm)*
7	**7 l/min** *(1.75 USgpm)*
8	**8 l/min** *(2 USgpm)*
9	**9 l/min** *(2.25 USgpm)*
10	**10 l/min** *(2.5 USgpm)*
11	**11 l/min** *(2.75 USgpm)*
12	**12 l/min** *(3 USgpm)*

VCF6

Valvole di controllo flusso compensate regolabili
Adjustable compensated flow control valves





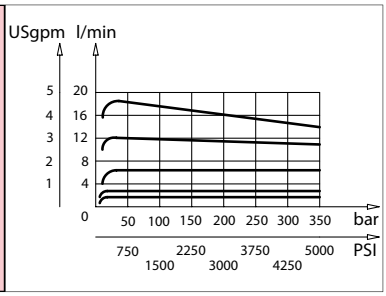


Dati tecnici
Technical data

Viscosità fluido *Fluid viscosity*	10-500 mm²/s *45 to 2000 ssu (6 to 420 cSt)*
Classe di contaminazione *Filtration*	ISO code 16/13 *SAE class 4 or better*
Temperatura fluido *Fluid temperature*	-20°C +80°C *-4°F + 176°F*
Temperatura ambiente *Ambient temperature*	-20°C +50°C *-4°F +122°F*

mm
(Inches)

Perdite di carico
Pressure drops



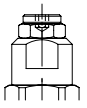
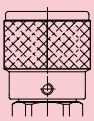
Caratteristiche tecniche
Technical performances

Codice *Code*	Portata Max *Max flow* l/min - *USgpm*	Pressione Max *Max pressure* bar/*PSI*	Peso approssimativo *Approx weight* Kg / *lb*	Coppia di serraggio *Tightening torque* Nm / *lbf ft*	Cavità *Cavity*
VCF6	**18** *(5)*	**350** *(5000)*	**0,11** *(0.25)*	**25-30** *(19-22)*	**SAE8/2**

Codice *Code*	Ø C
VCF61	**Ø 0,5** *(Ø 0.019)*
VCF62	**Ø 0,6** *(Ø 0.023)*
VCF63	**Ø 1** *(Ø 0.039)*
VCF64	**Ø 1,2** *(Ø 0.047)*
VCF65	**Ø 1,8** *(Ø 0.070)*
VCF66	**Ø 2,8** *(Ø 0.11)*
VCF67	**Ø 4,8** *(Ø 0.19)*

Codice ordinazione
Ordering code

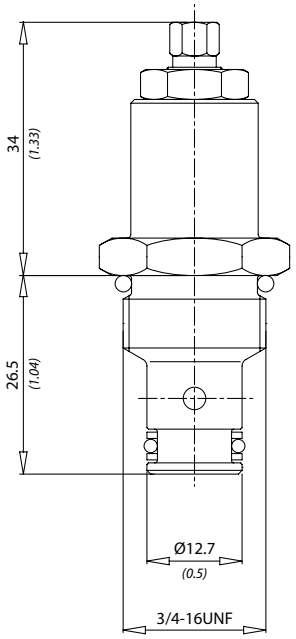
VCF6 - X - Y

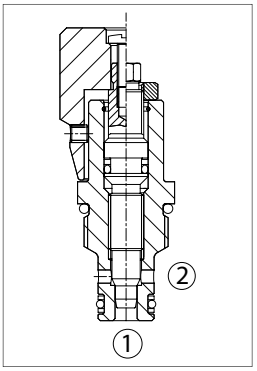
X	Regolazione / *Setting*	Y	Portata controllata a 100 bar ± 10% *Controlled flow at 100 bar ± 10 %*
C		1	**0,8 - 1,9 l/min** *(0.2 - 0.5 USgpm)*
		2	**1 - 2,2 l/min** *(0.25 - 0.6 USgpm)*
		3	**1,6 - 4 l/min** *(0.4 - 1 USgpm)*
		4	**2,5 - 5 l/min** *(0.6 - 1.3 USgpm)*
V		5	**3 - 7 l/min** *(0.8 - 1.8 USgpm)*
		6	**4,9 - 10,8 l/min** *(1.3 - 2.8 USgpm)*
		7	**8 - 18,5 l/min** *(2.1 - 4.9 USgpm)*

VBF6

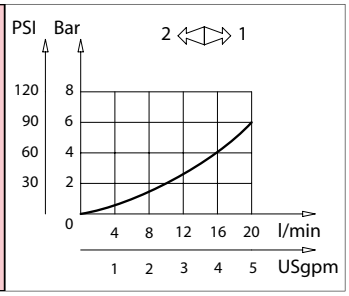
Valvole bidirezionali di controllo flusso
Bidirectional flow control valves

Dati tecnici *Technical data*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*
Classe di contaminazione *Filtration*	ISO code 16/13 *SAE class 4 or better*
Temperatura fluido *Fluid temperature*	-20°C +80°C *-4°F + 176°F*
Temperatura ambiente *Ambient temperature*	-20°C +50°C *-4°F +122°F*





Perdite di carico
Pressure drops



Caratteristiche tecniche *Technical performances*					
Codice *Code*	**Portata Max** ***Max flow*** **l/min - *USgpm***	**Pressione Max** ***Max pressure*** **bar/*PSI***	Peso approssimativo *Approx weight* Kg / *lb*	Coppia di serraggio *Tightening torque* Nm / *lbf ft*	Cavità *Cavity*
VBF6	**30** *(8)*	**300** *(4500)*	**0,09** *(0.20)*	**25-30** *(19-22)*	**SAE8/2**

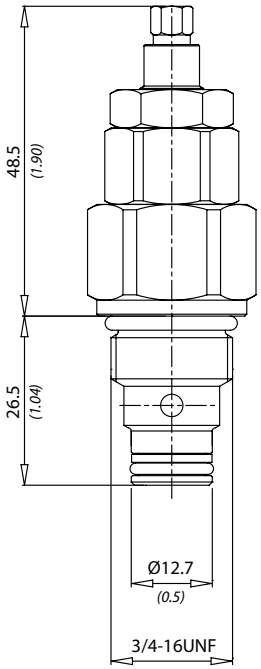
mm
(Inches)

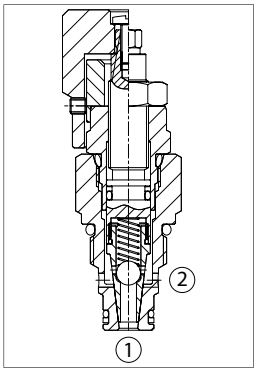
Codice ordinazione *Ordering code*	
VBF6 - X	
X	Regolazione / *Setting*
C	
V	

VRF6

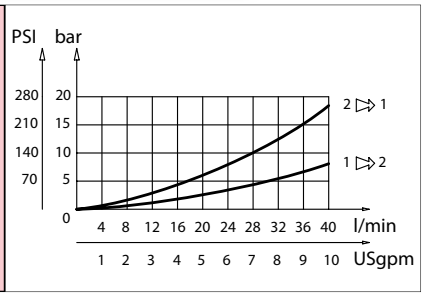
Valvole di controllo flusso unidirezionali
Unidirectional flow control valves

Dati tecnici *Technical data*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*
Classe di contaminazione *Filtration*	ISO code 16/13 *SAE class 4 or better*
Temperatura fluido *Fluid temperature*	-20°C +80°C *-4°F + 176°F*
Temperatura ambiente *Ambient temperature*	-20°C +50°C *-4°F +122°F*





Perdite di carico
Pressure drops



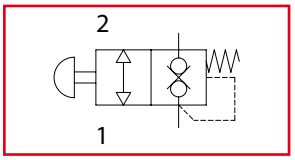
Caratteristiche tecniche *Technical performances*					
Codice *Code*	**Portata Max** ***Max flow*** **l/min - *USgpm***	**Pressione Max** ***Max pressure*** **bar/*PSI***	Peso approssimativo *Approx weight* Kg / *lb*	Coppia di serraggio *Tightening torque* Nm / *lbf ft*	Cavità *Cavity*
VRF6	**40** *(10)*	**350** *(5000)*	**0,13** *(0.30)*	**25-30** *(19-22)*	**SAE8/2**

mm
(Inches)

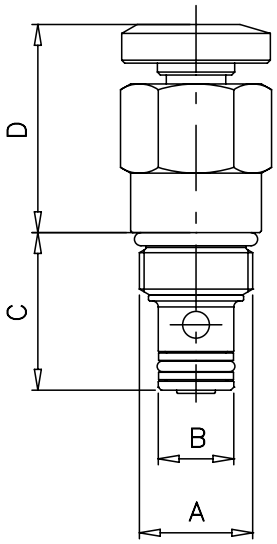
Codice ordinazione *Ordering code*	
VRF6 - X	
X	Regolazione / *Setting*
C	
V	

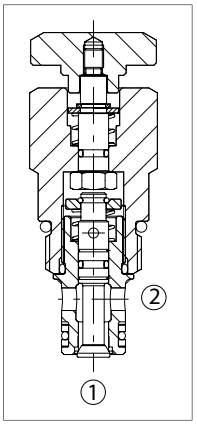
VEM

Valvole di emergenza manuale
Manual emergency valves

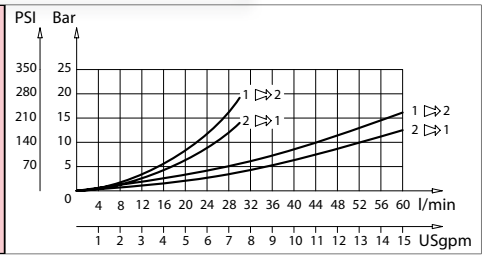


Dati tecnici *Technical data*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*
Classe di contaminazione *Filtration*	ISO code 16/13 *SAE class 4 or better*
Temperatura fluido *Fluid temperature*	-20°C +80°C *-4°F + 176°F*
Temperatura ambiente *Ambient temperature*	-20°C +50°C *-4°F +122°F*





Perdite di carico *Pressure drops*



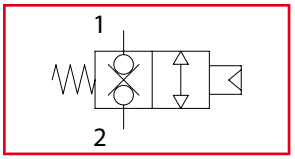
Caratteristiche tecniche *Technical performances*									
Codice *Code*	A	Portata Max *Max flow* l/min - *USgpm*	Pressione Max *Max pressure* bar/*PSI*	B	C	D	Peso approssimativo *Approx weight* Kg / *lb*	Coppia di serraggio *Tightening torque* Nm / *lbf ft*	Cavità *Cavity*
VEM6	**3/4 - 16UNF**	**30** *(8)*	**320** *(4500)*	**12,7** *(0.5)*	**26,5** *(1.04)*	**35** *(1.38)*	**0,12** *(0.27)*	**25-30** *(19-22)*	**SAE8/2**
VEM10	**7/8 - 14UNF**	**50** *(13)*		**15,87** *(0.62)*	**32,5** *(1.28)*	**43,5** *(1.71)*	**0,20** *(0.44)*	**41-47** *(30-35)*	**SAE10/2**

mm *(Inches)*

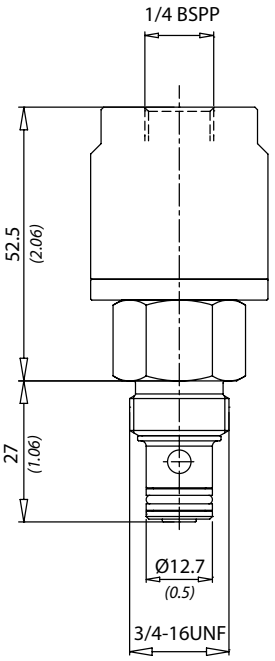
Codice ordinazione *Ordering code*	
VEM - X	
X	Dimensione / *Size*
6	**3/4 - 16UNF**
10	**7/8 - 14UNF**

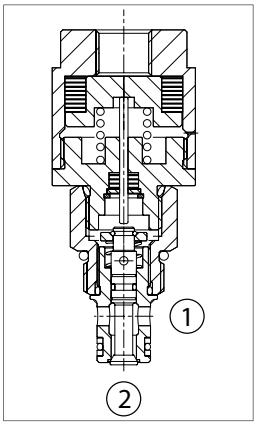
VPN6

Valvole pneumatiche
Pneumatic valves

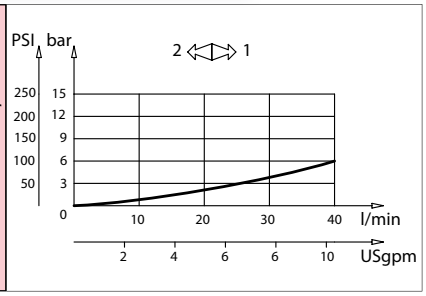


Dati tecnici *Technical data*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*
Classe di contaminazione *Filtration*	ISO code 16/13 *SAE class 4 or better*
Temperatura fluido *Fluid temperature*	-20°C +80°C *-4°F + 176°F*
Temperatura ambiente *Ambient temperature*	-20°C +50°C *-4°F +122°F*





Perdite di carico *Pressure drops*



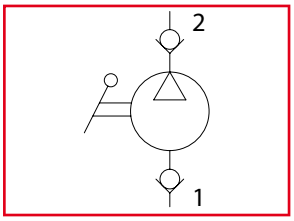
Caratteristiche tecniche *Technical performances*						
Codice *Code*	Portata Max *Max flow* l/min - *USgpm*	Pressione Max *Max pressure* bar/*PSI*	Peso approssimativo *Approx weight* Kg / *lb*	Coppia di serraggio *Tightening torque* Nm / *lbf ft*	Cavità *Cavity*	Pressione di pilotaggio *Pilot pressure* bar / *PSI*
VPN6	**40** *(10)*	**350** *(5000)*	**0,16** *(0.35)*	**25-30** *(19-22)*	**SAE8/2** *(2)*	**4/15** *(58/218)*

mm *(Inches)*

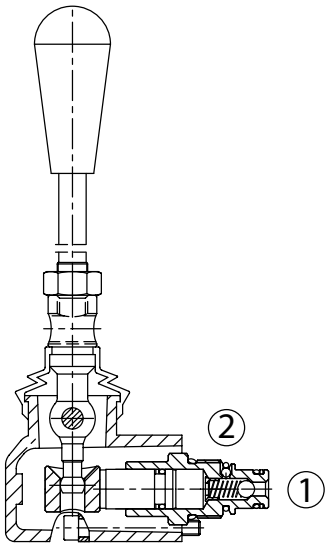
Codice ordinazione *Ordering code*
VPN6

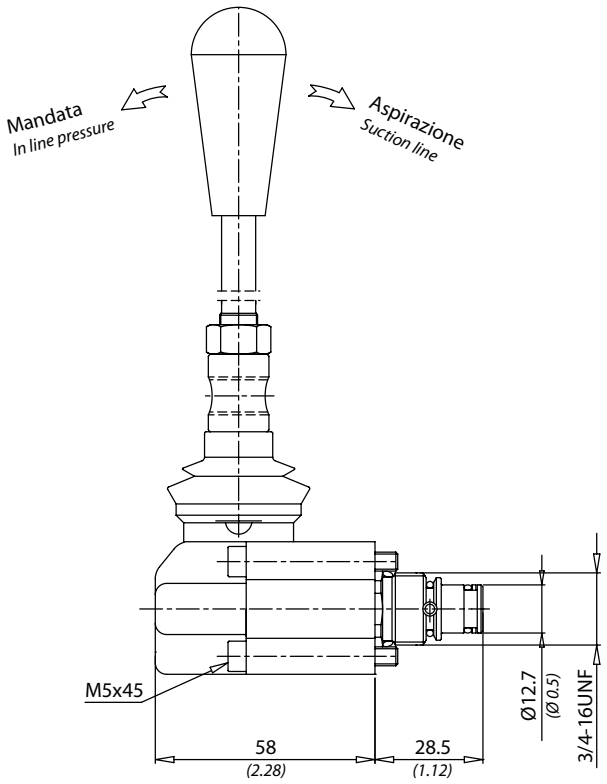
PME

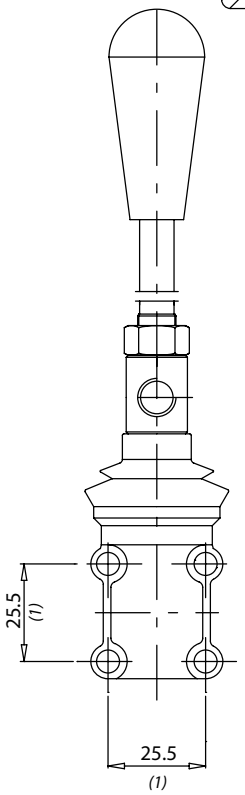
Pompe a mano
Cartridge hand pumps



Dati tecnici *Technical data*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*
Classe di contaminazione *Filtration*	ISO code 16/13 *SAE class 4 or better*
Temperatura fluido *Fluid temperature*	-20°C +80°C *-4°F + 176°F*
Temperatura ambiente *Ambient temperature*	-20°C +50°C *-4°F +122°F*



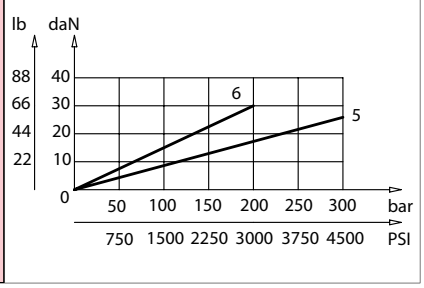




mm
(Inches)

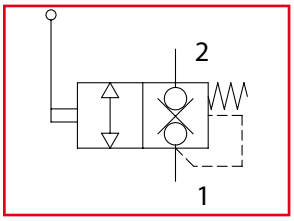
Caratteristiche tecniche *Technical performances*					
Codice *Code*	Cilindrata *Displacement* cm^3 - in^3	**Pressione Max** ***Max pressure*** **bar/*PSI***	Peso approssimativo *Approx weight* Kg / *lb*	Coppia di serraggio *Tightening torque* Nm / *lbf ft*	Cavità *Cavity*
PME5	**1** *(0.06)*	**300** *(4000)*	**0,38** *(0.84)*	**25-30** *(19-22)*	**SAE8/2**
PME6	**2** *(0.12)*	**200** *(3000)*			

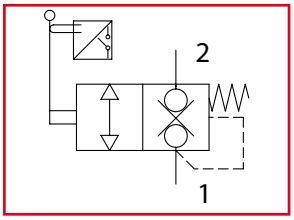
Perdite di carico
Pressure drops



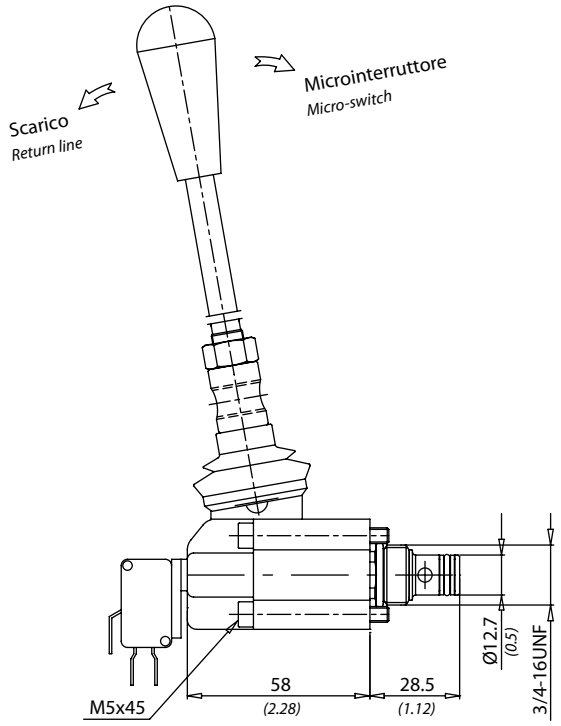
CM6

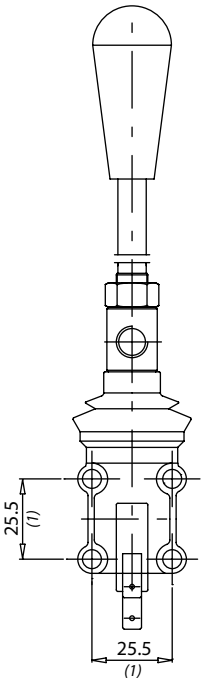
Valvole a comando manuale
Manual operated release valves

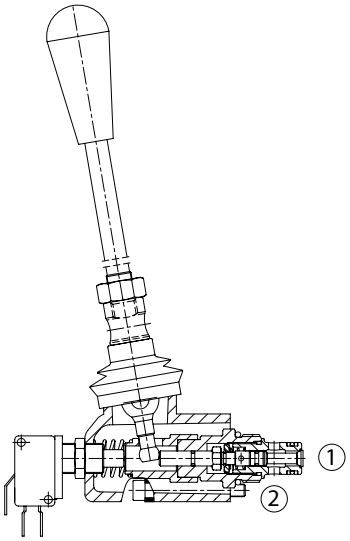




Dati tecnici *Technical data*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*
Classe di contaminazione *Filtration*	ISO code 16/13 *SAE class 4 or better*
Temperatura fluido *Fluid temperature*	-20°C +80°C *-4°F + 176°F*
Temperatura ambiente *Ambient temperature*	-20°C +50°C *-4°F +122°F*

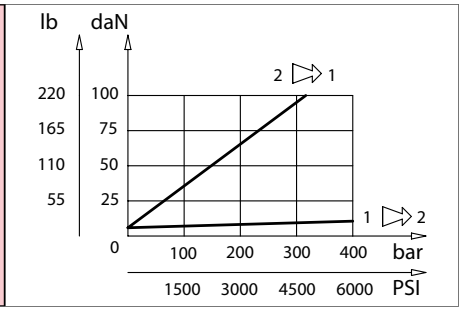


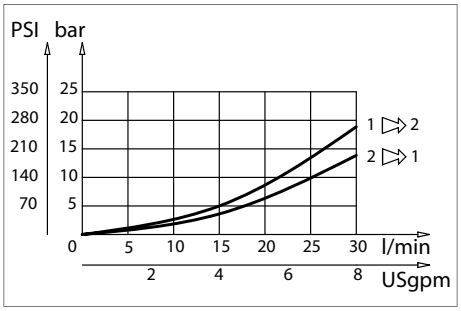




mm
(Inches)

Perdite di carico
Pressure drops



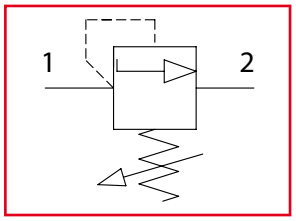


Caratteristiche tecniche *Technical performances*					
Codice *Code*	**Portata Max** ***Max flow*** **l/min - *USgpm***	**Pressione Max** ***Max pressure*** **bar/*PSI***	Peso approssimativo *Approx weight* Kg / *lb*	Coppia di serraggio *Tightening torque* Nm / *lbf ft*	Cavità *Cavity*
CM6	**25** *(6)*	**320** *(4500)*	**0,39** *(0.86)*	**25-30** *(19-22)*	**SAE8/2**

Codice ordinazione *Ordering code*	
CM6 - X	
X	Microinterruttore *Micro switch*
0	**Senza micro** *Without micro-switch*
M	**Con micro** *With micro-switch*

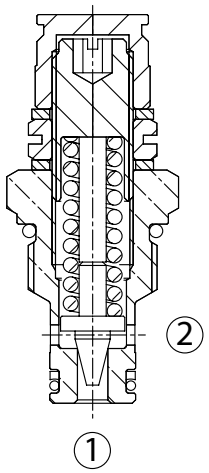
VMD1

Valvole di massima pressione
Relief valves

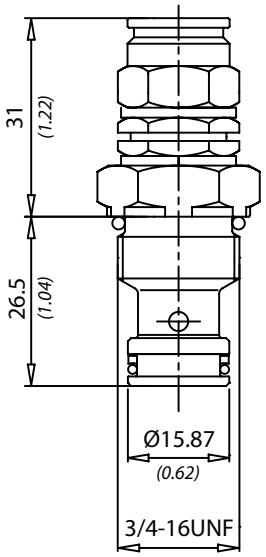


Dati tecnici
Technical data

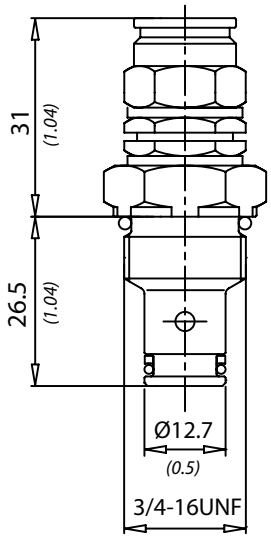
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*
Classe di contaminazione *Filtration*	ISO code 16/13 *SAE class 4 or better*
Temperatura fluido *Fluid temperature*	-20°C +80°C *-4°F + 176°F*
Temperatura ambiente *Ambient temperature*	-20°C +50°C *-4°F +122°F*



15

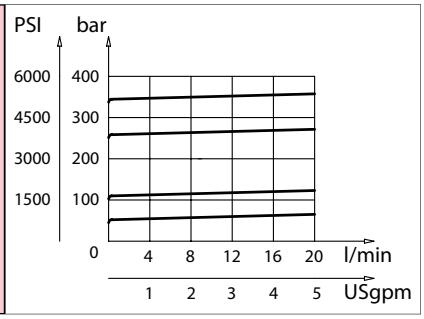


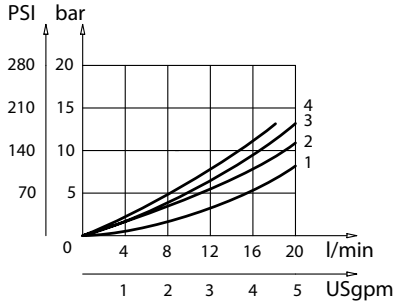
12



mm
(Inches)

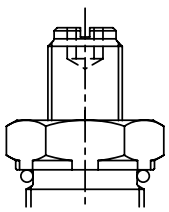
Perdite di carico
Pressure drops





Codice ordinazione
Ordering code

VMD1 - X - Y - K

X	Regolazione / *Setting*
C	

Y	Molla - *Spring*
1	**40 bar** *(600 PSI)* max
2	**110 bar** *(1600 PSI)* max
3	**250 bar** *(3600 PSI)* max
4	**350 bar** *(5000 PSI)* max

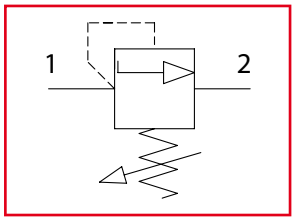
K	Dimensione / *Size*
12	**Ø 12,7**
15	**Ø 15,87**

Caratteristiche tecniche
Technical performances

Codice *Code*	**Portata Max** ***Max flow*** **l/min - *USgpm***	**Pressione Max** ***Max pressure*** **bar/*PSI***	Peso approssimativo *Approx weight* Kg / *lb*	Coppia di serraggio *Tightening torque* Nm / *lbf ft*	Cavità *Cavity*
VMD1	**20** *(5)*	**350** *(5000)*	**0,09** *(0.20)*	**25-30** *(19-22)*	**SAE8/2**

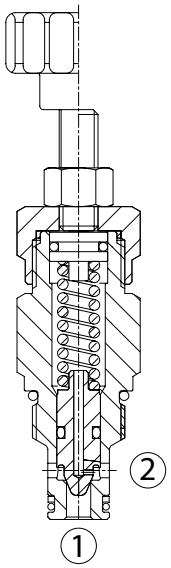
VMD10

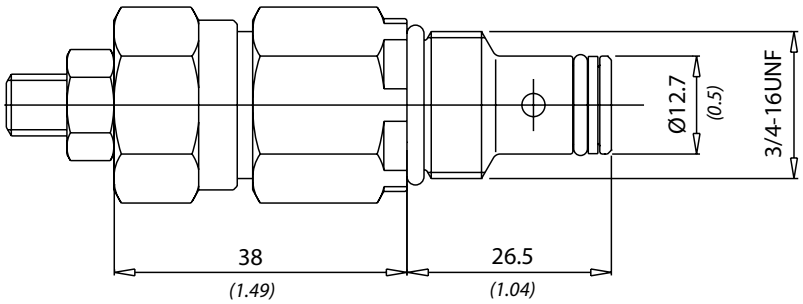
Valvole di massima pressione
Relief valves



Dati tecnici
Technical data

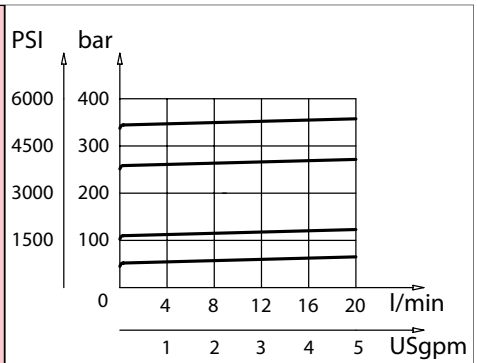
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*
Classe di contaminazione *Filtration*	ISO code 16/13 *SAE class 4 or better*
Temperatura fluido *Fluid temperature*	-20°C +80°C *-4°F + 176°F*
Temperatura ambiente *Ambient temperature*	-20°C +50°C *-4°F +122°F*



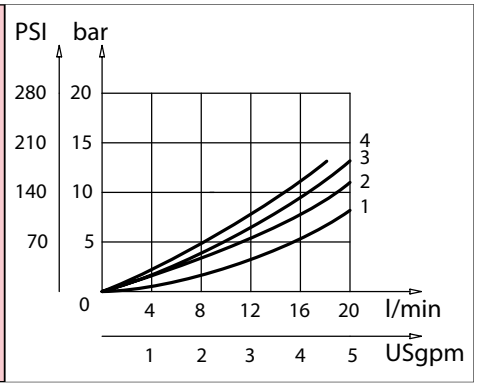


mm
(Inches)

Perdite di carico
Pressure drops

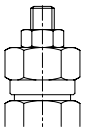
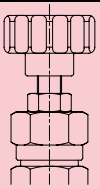


Perdite di carico
Pressure drops



Codice ordinazione
Ordering code

VMD10 - X - Y

X	Regolazione / *Setting*
C	
V	

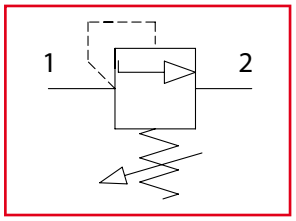
Y	Molla - *Spring*
1	**40 bar** *(600 PSI)* max
2	**110 bar** *(1600 PSI)* max
3	**250 bar** *(3600 PSI)* max
4	**350 bar** *(5000 PSI)* max

Caratteristiche tecniche
Technical performances

Codice *Code*	**Portata Max** ***Max flow*** **l/min - *USgpm***	**Pressione Max** ***Max pressure*** **bar/*PSI***	Peso approssimativo *Approx weight* Kg / *lb*	Coppia di serraggio *Tightening torque* Nm / *lbf ft*	Cavità *Cavity*
VMD10	**20** *(5)*	**350** *(5000)*	**0,14** *(0.30)*	**25-30** *(19-22)*	**SAE8/2**

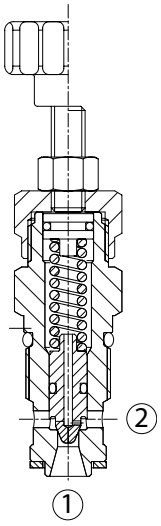
VMD25

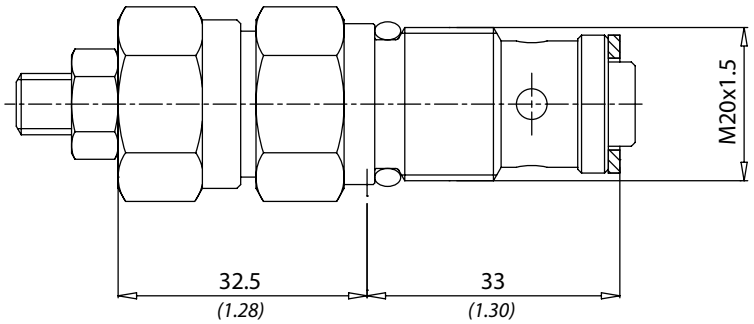
Valvole di massima pressione
Relief valves



Dati tecnici
Technical data

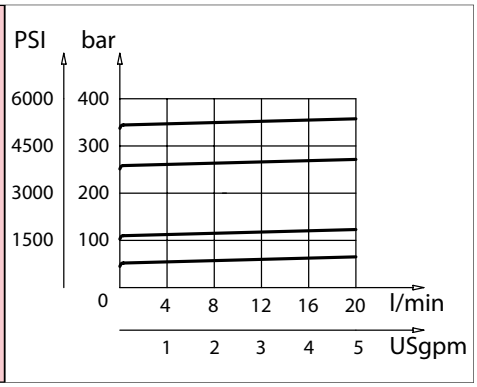
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*
Classe di contaminazione *Filtration*	ISO code 16/13 *SAE class 4 or better*
Temperatura fluido *Fluid temperature*	-20°C +80°C *-4°F + 176°F*
Temperatura ambiente *Ambient temperature*	-20°C +50°C *-4°F +122°F*



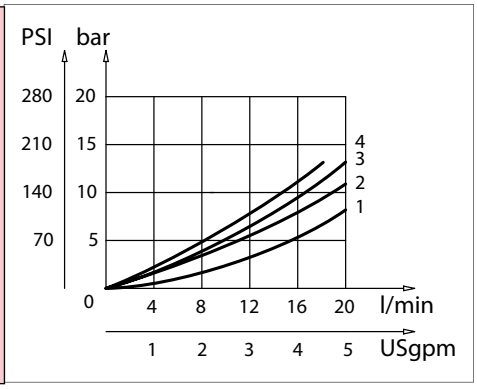


mm
(Inches)

Perdite di carico
Pressure drops

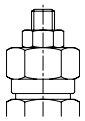
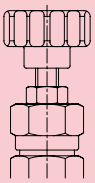


Perdite di carico
Pressure drops



Codice ordinazione
Ordering code

VMD25 - X - Y

X	Regolazione / *Setting*
C	
V	

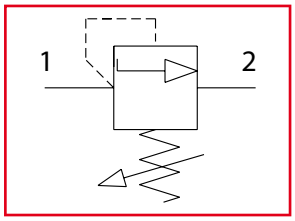
Y	Molla - *Spring*
1	**40 bar** *(600 PSI)* max
2	**110 bar** *(1600 PSI)* max
3	**250 bar** *(3600 PSI)* max
4	**350 bar** *(5000 PSI)* max

Caratteristiche tecniche
Technical performances

Codice *Code*	**Portata Max** ***Max flow*** **l/min - *USgpm***	**Pressione Max** ***Max pressure*** **bar/*PSI***	Peso approssimativo *Approx weight* Kg / *lb*	Coppia di serraggio *Tightening torque* Nm / *lbf ft*	Cavità *Cavity*
VMD25	**20** *(5)*	**350** *(5000)*	**0,15** *(0.33)*	**25-30** *(19-22)*	**C2015/30**

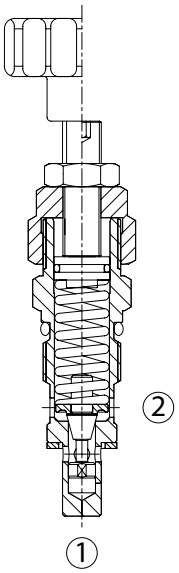
VMD30

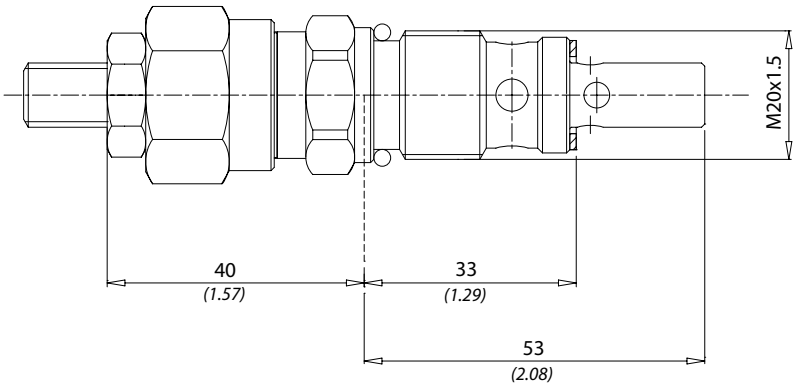
Valvole di massima pressione
Relief valves



Dati tecnici
Technical data

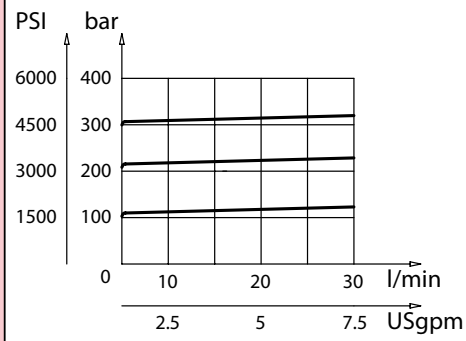
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*
Classe di contaminazione *Filtration*	ISO code 16/13 *SAE class 4 or better*
Temperatura fluido *Fluid temperature*	-20°C +80°C *-4°F + 176°F*
Temperatura ambiente *Ambient temperature*	-20°C +50°C *-4°F +122°F*



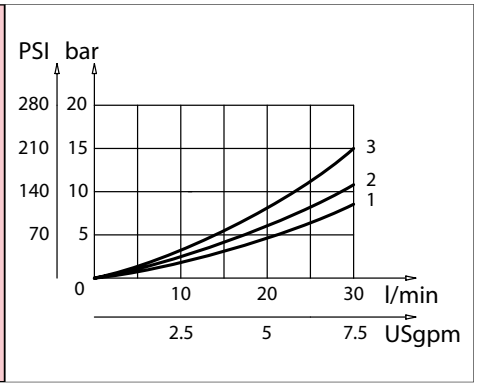


mm
(Inches)

Perdite di carico
Pressure drops

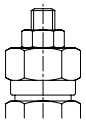
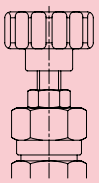


Perdite di carico
Pressure drops



Codice ordinazione
Ordering code

VMD30 - X - Y

X	Regolazione / *Setting*
C	
V	

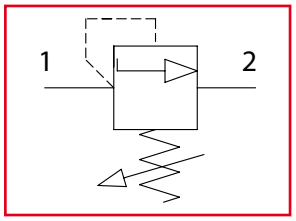
Y	Molla - *Spring*
1	**100 bar** *(1450 PSI)* max
2	**210 bar** *(3000 PSI)* max
3	**300 bar** *(4350 PSI)* max

Caratteristiche tecniche
Technical performances

Codice *Code*	**Portata Max** ***Max flow*** **l/min - *USgpm***	**Pressione Max** ***Max pressure*** **bar/*PSI***	Peso approssimativo *Approx weight* Kg / *lb*	Coppia di serraggio *Tightening torque* Nm / *lbf ft*	Cavità *Cavity*
VMD30	**30** *(8)*	**320** *(4500)*	**0,16** *(0.35)*	**25-30** *(19-22)*	**C2015/30**

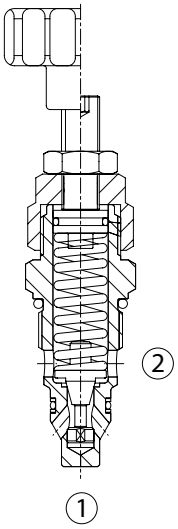
VMD8

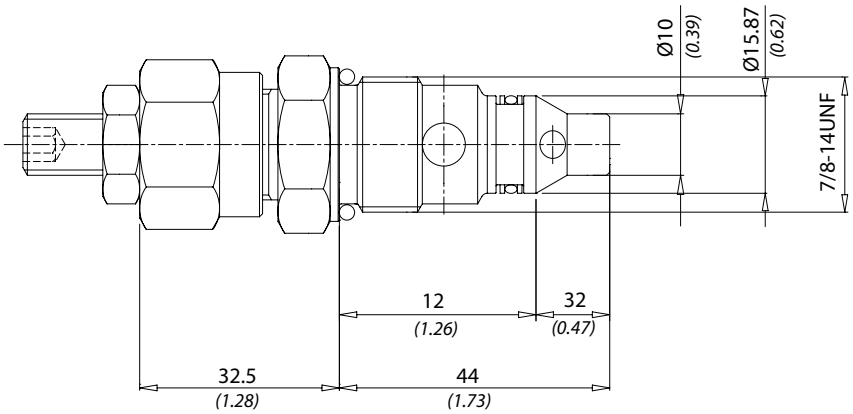
Valvole di massima pressione
Relief valves



Dati tecnici
Technical data

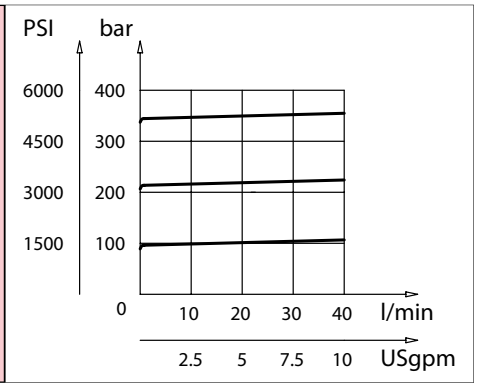
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*
Classe di contaminazione *Filtration*	ISO code 16/13 *SAE class 4 or better*
Temperatura fluido *Fluid temperature*	-20°C +80°C *-4°F + 176°F*
Temperatura ambiente *Ambient temperature*	-20°C +50°C *-4°F +122°F*



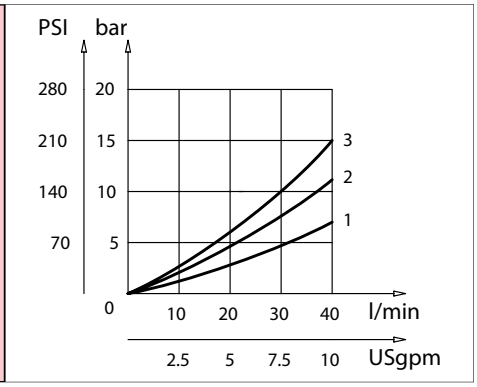


mm
(Inches)

Perdite di carico
Pressure drops

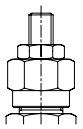
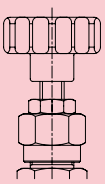


Perdite di carico
Pressure drops



Codice ordinazione
Ordering code

VMD8 - X - Y

X	Regolazione / *Setting*
C	
V	

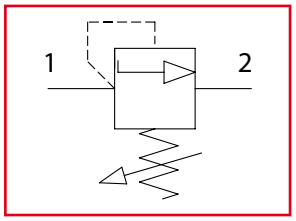
Y	Molla - *Spring*
1	**100 bar** *(1450 PSI)* max
2	**210 bar** *(3000 PSI)* max
3	**300 bar** *(4350 PSI)* max

Caratteristiche tecniche
Technical performances

Codice *Code*	**Portata Max** ***Max flow*** **l/min - *USgpm***	**Pressione Max** ***Max pressure*** **bar/*PSI***	Peso approssimativo *Approx weight* Kg / *lb*	Coppia di serraggio *Tightening torque* Nm / *lbf ft*	Cavità *Cavity*
VMD8	**40** *(10)*	**350** *(5000)*	**0,17** *(0.37)*	**41-47** *(30-35)*	**SAE10/2**

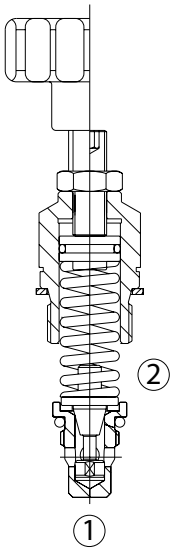
VMD40

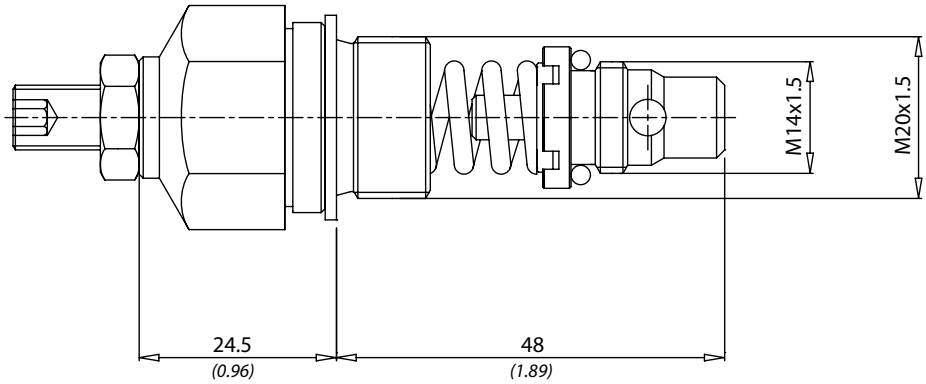
Valvole di massima pressione
Relief valves



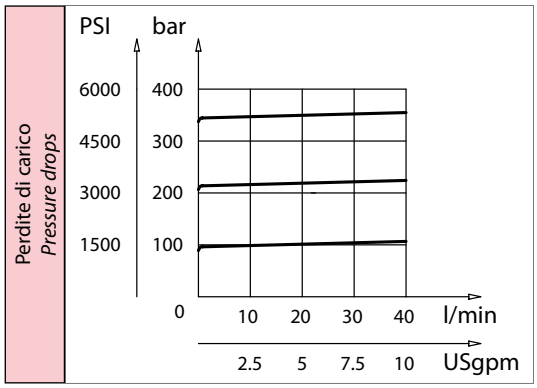
Dati tecnici
Technical data

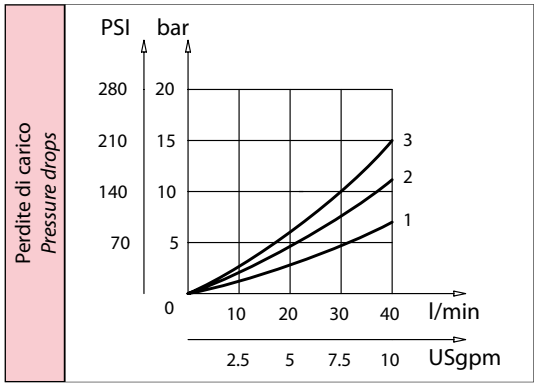
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*
Classe di contaminazione *Filtration*	ISO code 16/13 *SAE class 4 or better*
Temperatura fluido *Fluid temperature*	-20°C +80°C *-4°F + 176°F*
Temperatura ambiente *Ambient temperature*	-20°C +50°C *-4°F +122°F*





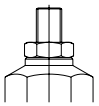
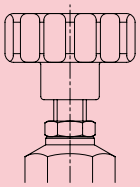
mm
(Inches)





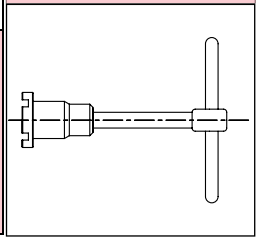
Codice ordinazione
Ordering code

VMD40 - X - Y

X	Regolazione / *Setting*
C	
V	

Y	Molla - *Spring*
1	**100 bar** *(1450 PSI)* max
2	**210 bar** *(3000 PSI)* max
3	**300 bar** *(4350 PSI)* max

Codice / *Code*
61700008

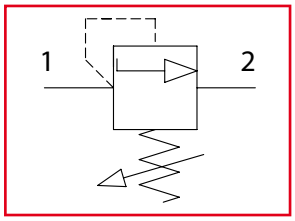


Caratteristiche tecniche
Technical performances

Codice *Code*	**Portata Max** ***Max flow*** **l/min - *USgpm***	**Pressione Max** ***Max pressure*** **bar/*PSI***	Peso approssimativo *Approx weight* Kg / *lb*	Coppia di serraggio *Tightening torque* Nm / *lbf ft*	Cavità *Cavity*
VMD40	**40** *(10)*	**350** *(5000)*	**0,12** *(0.26)*	**M20 40/45** *(30-34)* **M14 10/15** *(7-11)*	**C2015/1415/2**

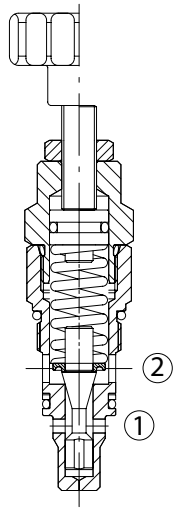
VMD90

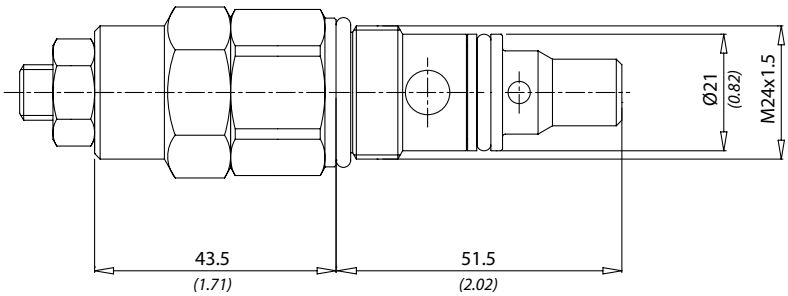
Valvole di massima pressione
Relief valves



Dati tecnici
Technical data

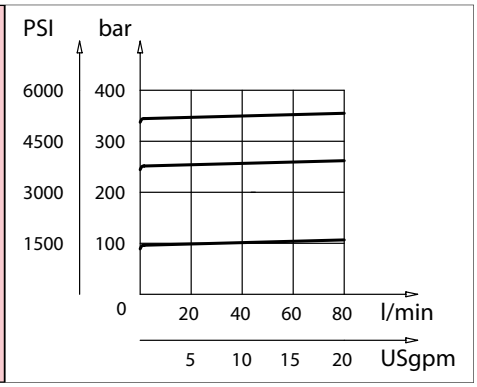
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*
Classe di contaminazione *Filtration*	ISO code 16/13 *SAE class 4 or better*
Temperatura fluido *Fluid temperature*	-20°C +80°C *-4°F + 176°F*
Temperatura ambiente *Ambient temperature*	-20°C +50°C *-4°F +122°F*



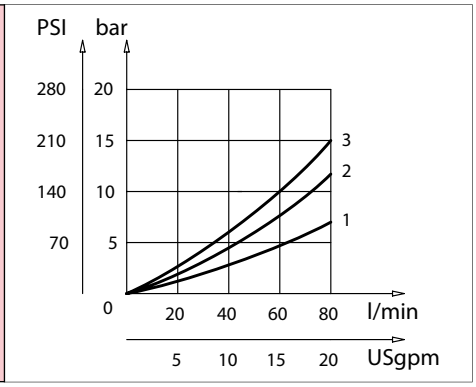


mm
(Inches)

Perdite di carico
Pressure drops

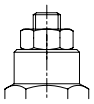
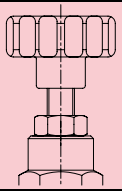


Perdite di carico
Pressure drops



Codice ordinazione
Ordering code

VMD90 - X - Y

X	Regolazione / *Setting*
C	
V	

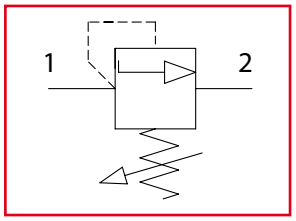
Y	Molla - *Spring*
1	**100 bar** *(1450 PSI)* max
2	**250 bar** *(3500 PSI)* max
3	**350 bar** *(5000 PSI)* max

Caratteristiche tecniche
Technical performances

Codice *Code*	**Portata Max** ***Max flow*** **l/min - *USgpm***	**Pressione Max** ***Max pressure*** **bar/*PSI***	Peso approssimativo *Approx weight* Kg / *lb*	Coppia di serraggio *Tightening torque* Nm / *lbf ft*	Cavità *Cavity*
VMD90	**80** *(21)*	**350** *(5000)*	**0,30** *(0.65)*	**60-65** *(45-49)*	**C2415/2**

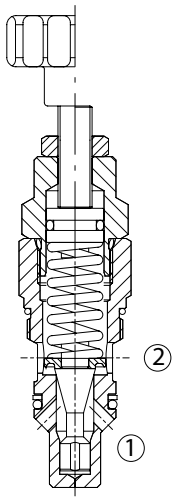
VMD120

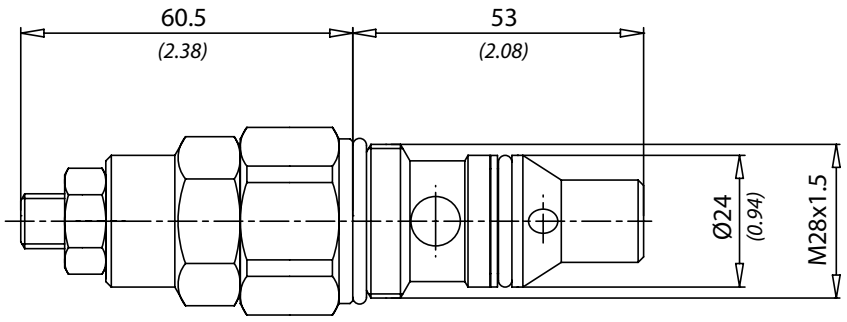
Valvole di massima pressione
Relief valves



Dati tecnici
Technical data

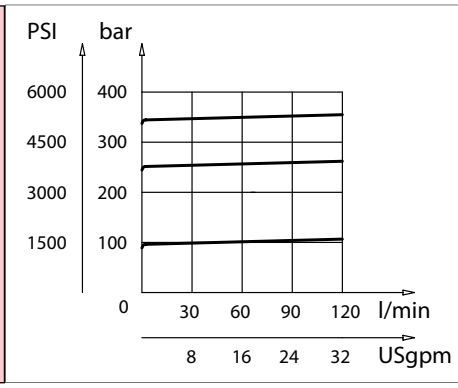
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*
Classe di contaminazione *Filtration*	ISO code 16/13 *SAE class 4 or better*
Temperatura fluido *Fluid temperature*	-20°C +80°C *-4°F + 176°F*
Temperatura ambiente *Ambient temperature*	-20°C +50°C *-4°F +122°F*



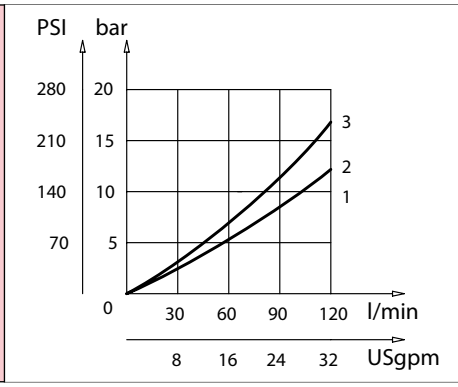


mm
(Inches)

Perdite di carico
Pressure drops

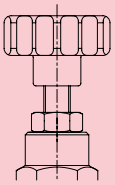


Perdite di carico
Pressure drops



Codice ordinazione
Ordering code

VMD120 - X - Y

X	Regolazione / *Setting*
C	
V	

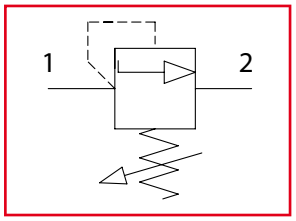
Y	Molla - *Spring*
1	**100 bar** *(1450 PSI)* max
2	**250 bar** *(3500 PSI)* max
3	**350 bar** *(5000 PSI)* max

Caratteristiche tecniche
Technical performances

Codice *Code*	**Portata Max** ***Max flow*** **l/min - *USgpm***	**Pressione Max** ***Max pressure*** **bar/*PSI***	Peso approssimativo *Approx weight* Kg / *lb*	Coppia di serraggio *Tightening torque* Nm / *lbf ft*	Cavità *Cavity*
VMD120	**120** *(30)*	**350** *(5000)*	**0,30** *(0.65)*	**60-65** *(45-49)*	**C2815/2**

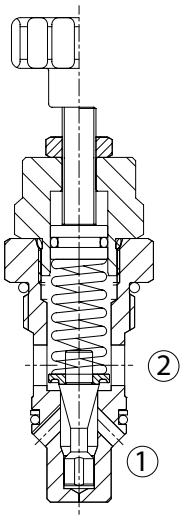
VMD150

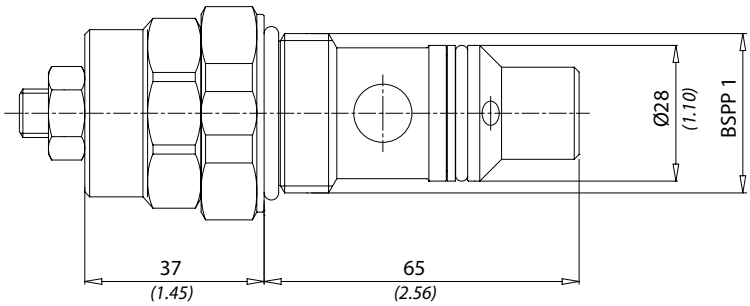
Valvole di massima pressione
Relief valves



Dati tecnici
Technical data

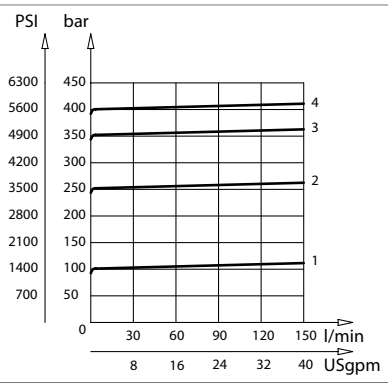
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*
Classe di contaminazione *Filtration*	ISO code 16/13 *SAE class 4 or better*
Temperatura fluido *Fluid temperature*	-20°C +80°C *-4°F + 176°F*
Temperatura ambiente *Ambient temperature*	-20°C +50°C *-4°F +122°F*



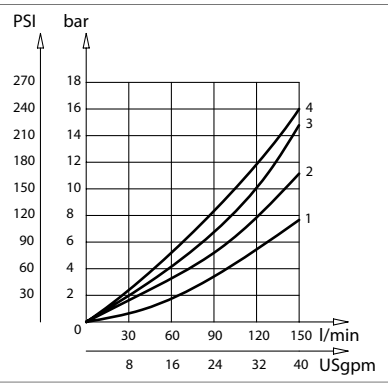


mm
(Inches)

Perdite di carico
Pressure drops

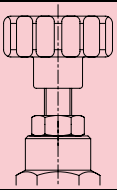


Perdite di carico
Pressure drops



Codice ordinazione
Ordering code

VMD150 - X - Y

X	Regolazione / *Setting*
C	
V	

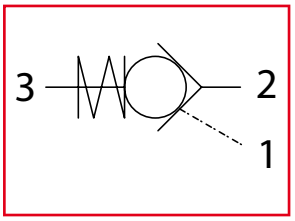
Y	Molla - *Spring*
1	**100 bar** *(1450 PSI)* max
2	**250 bar** *(3500 PSI)* max
3	**350 bar** *(5000 PSI)* max

Caratteristiche tecniche
Technical performances

Codice *Code*	**Portata Max** ***Max flow*** **l/min - *USgpm***	**Pressione Max** ***Max pressure*** **bar/*PSI***	Peso approssimativo *Approx weight* Kg / *lb*	Coppia di serraggio *Tightening torque* Nm / *lbf ft*	Cavità *Cavity*
VMD150	**150** *(40)*	**350** *(5000)*	**0,50** *(1.1)*	**70-75** *(52-56)*	**C100/2**

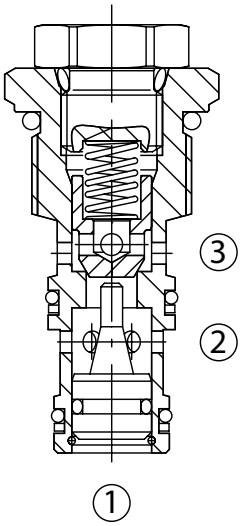
VPR

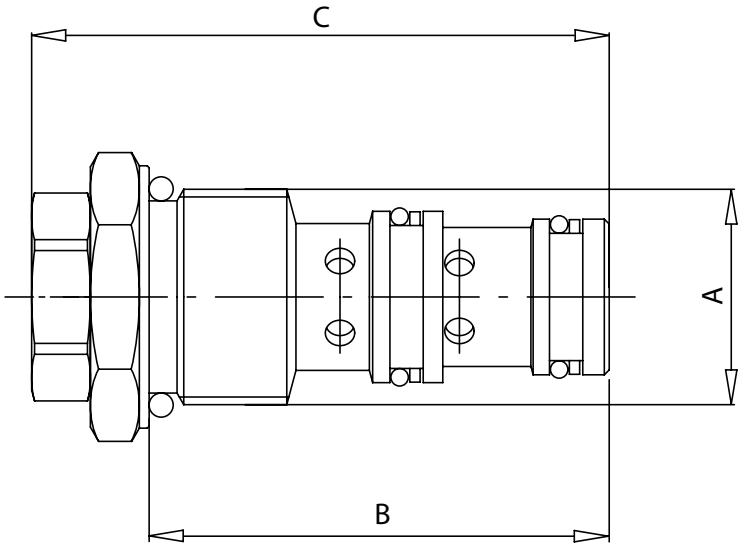
Valvole di blocco pilotate a semplice effetto
Single acting pilot check valves



Dati tecnici
Technical data

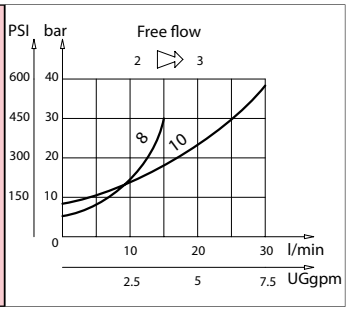
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*
Classe di contaminazione *Filtration*	ISO code 16/13 *SAE class 4 or better*
Temperatura fluido *Fluid temperature*	-20°C +80°C *-4°F + 176°F*
Temperatura ambiente *Ambient temperature*	-20°C +50°C *-4°F +122°F*

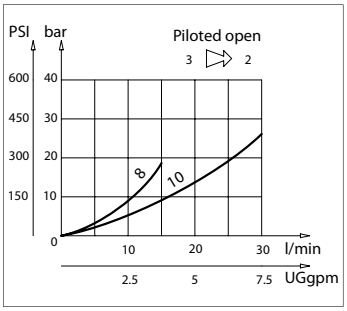


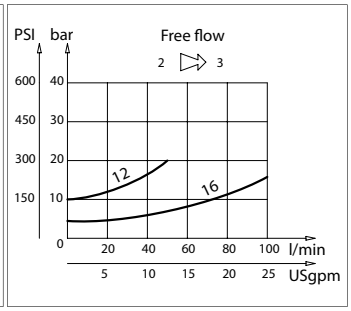


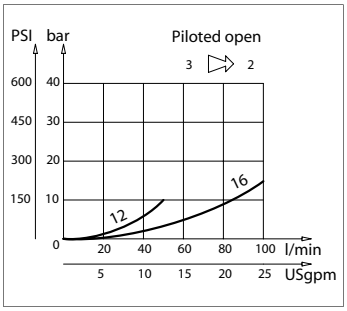
mm
(Inches)

Perdite di carico
Pressure drops







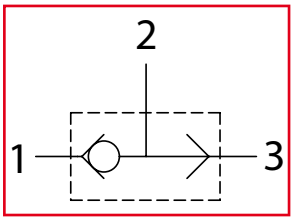


Caratteristiche tecniche
Technical performances

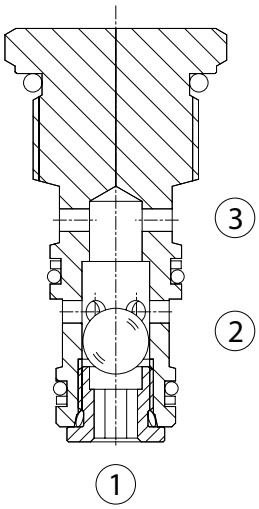
Codice *Code*	A	Portata Max *Max flow* l/min - *USgpm*	Pressione Max *Max pressure* bar/*PSI*	B	C	Peso approssimativo *Approx weight* Kg / *lb*	Coppia di serraggio *Tightening torque* Nm / *lbf ft*	Rapporto di pilotaggio *Pilot ratio*	Cavità *Cavity*
VPR08	**3/4 - 16 UNF**	**15** *(4)*	**350** *(5000)*	**41** *(1.61)*	**57** *(2.24)*	**0,10** *(0.22)*	**25-30** *(19-22)*	**1:2.5**	**SAE8/3**
VPR10	**7/8 - 14 UNF**	**30** *(8)*		**47** *(1.85)*	**59** *(2.32)*	**0,11** *(0.25)*	**41-47** *(30-35)*	**1:3**	**SAE10/3**
VPR12	**1-1/16 - 12 UNF**	**50** *(13)*		**73,5** *(1.85)*	**87,5** *(3.44)*	**0,23** *(0.50)*	**68-75** *(51-56)*		**SAE12/3**
VPR16	**1-5/16 - 12 UNF**	**100** *(25)*		**75** *(2.95)*	**99** *(3.89)*	**0,43** *(0.95)*	**122-136** *(91-102)*	**1:2.5**	**SAE16/3**

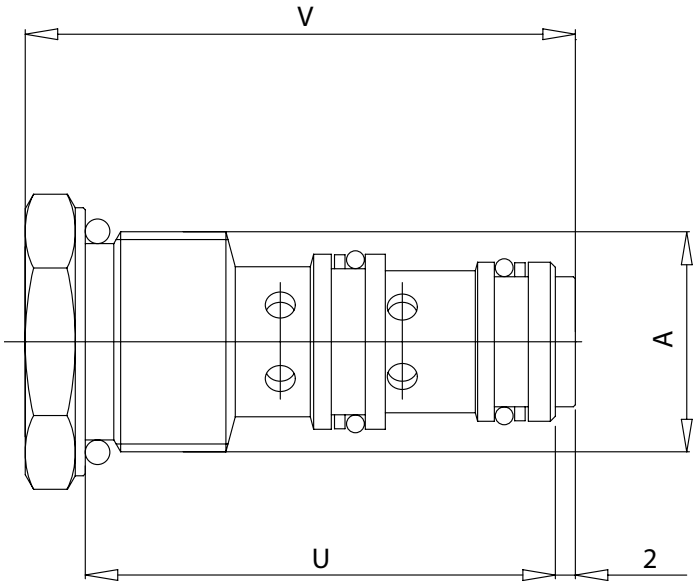
SV

Valvole selettrici
Load shuttle-ball valves



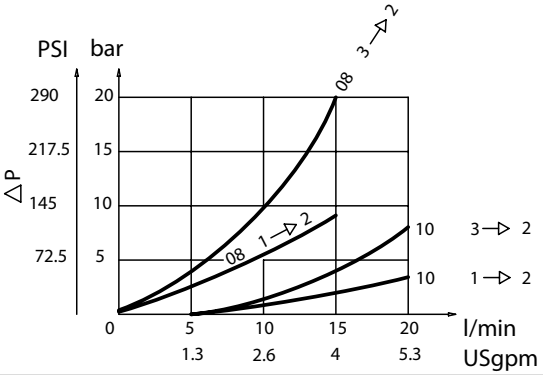
Dati tecnici *Technical data*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*
Classe di contaminazione *Filtration*	ISO code 16/13 *SAE class 4 or better*
Temperatura fluido *Fluid temperature*	-20°C +80°C *-4°F + 176°F*
Temperatura ambiente *Ambient temperature*	-20°C +50°C *-4°F +122°F*





mm
(Inches)

Perdite di carico
Pressure drops



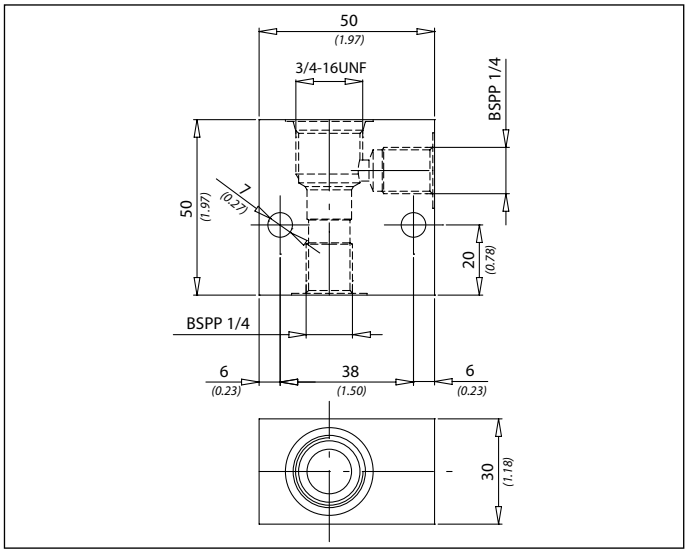
Caratteristiche tecniche *Technical performances*								
Codice *Code*	A	Portata Max *Max flow* l/min - *USgpm*	Pressione Max *Max pressure* bar/*PSI*	U	V	Peso approssimativo *Approx weight* Kg / *lb*	Coppia di serraggio *Tightening torque* Nm / *lbf ft*	Cavità *Cavity*
SV08	**3/4 - 16 UNF**	**15** *(4)*	**350** *(5000)*	**41** *(1.61)*	**49** *(1.93)*	**0,10** *(0.22)*	**25-30** *(19-22)*	**SAE8/3**
SV10	**7/8 - 14 UNF**	**30** *(8)*		**47** *(1.85)*	**55** *(2.16)*	**0,11** *(0.25)*	**41-47** *(30-35)*	**SAE10/3**

Blocchi

Manifolds

BLOCCO 50
(Manifold 50)

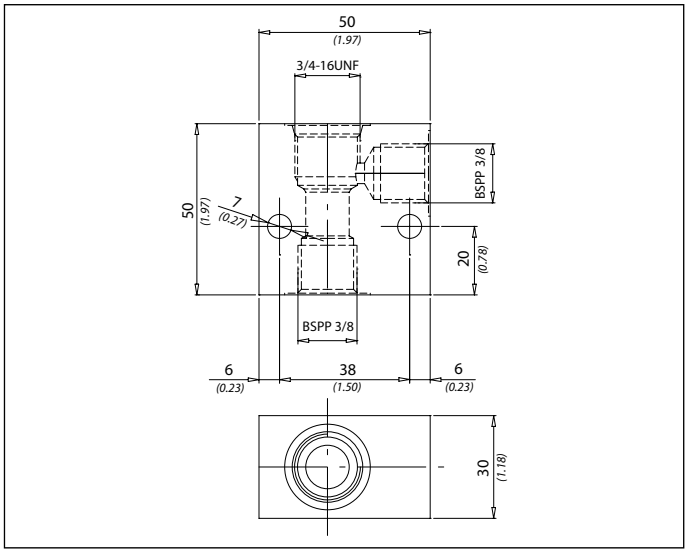
Cod. **62200032**



mm
(Inches)

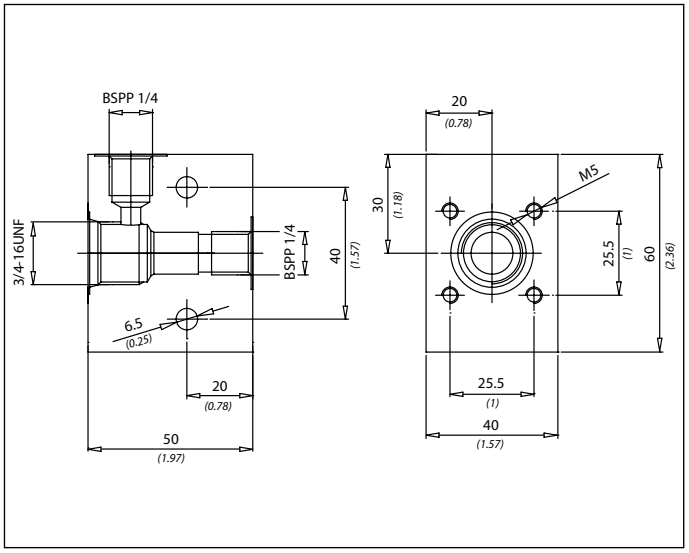
BLOCCO 51
(Manifold 51)

Cod. **62200051**



BLOCCO 52
(Manifold 52)

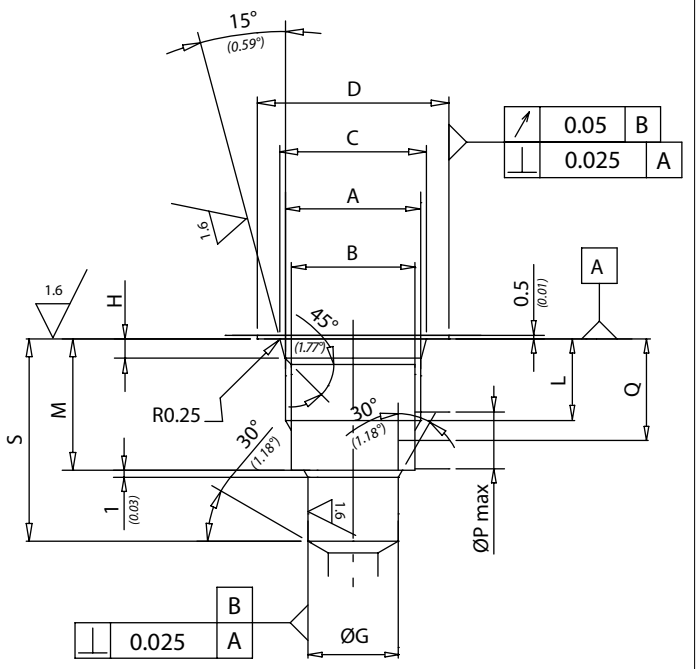
Cod. **62200023**



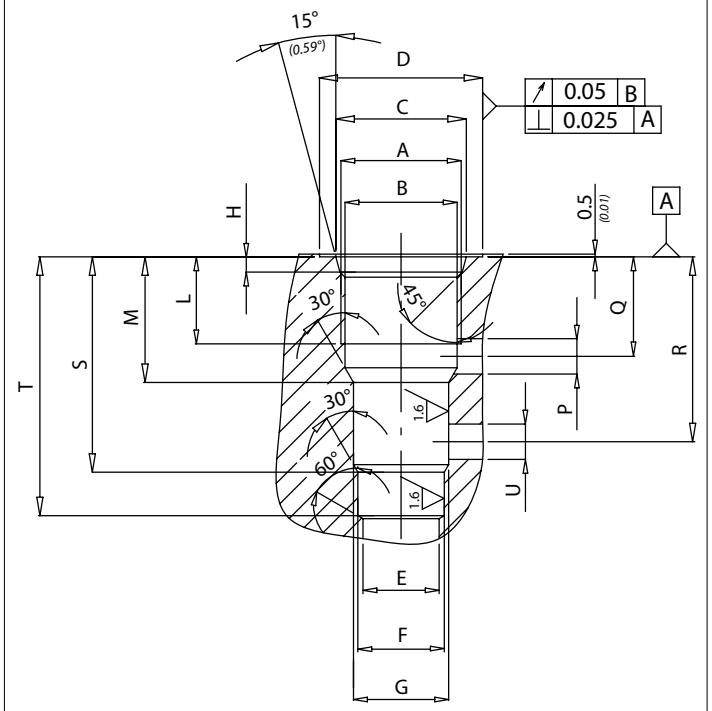
Cavità SAE

SAE Cavities

SAE_ _/2



SAE_ _/3



mm
(Inches)

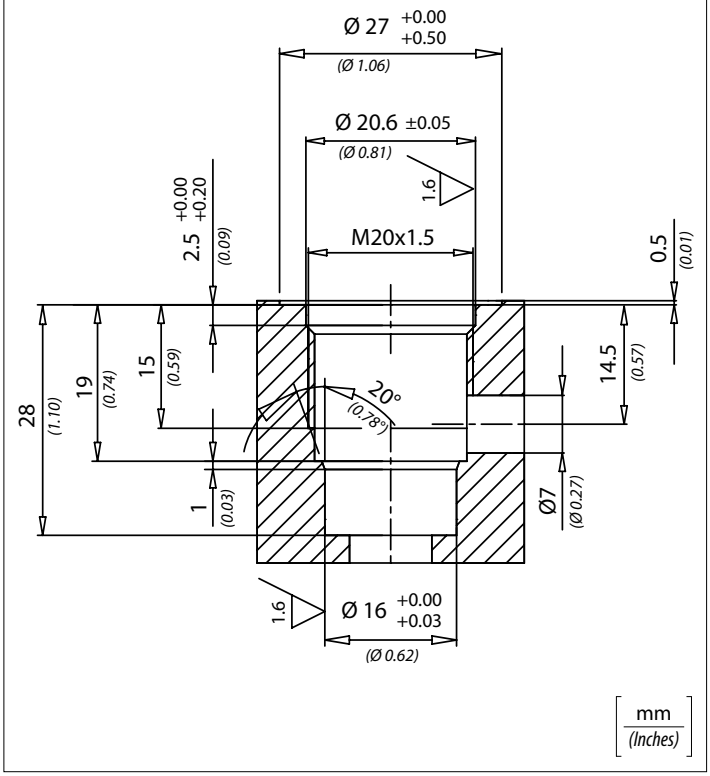
Dimensioni / *Dimensions*

Codice *Code*	A	B ± 0,05	C ± 0,05	D	E Ø max	F ± 0,02	G ± 0,02	H	L	M	P	Q	R	S	T	U
SAE08/2	**3/4-16 UNF**	**17,42** *(0.686)*	**20,66** *(0.686)*	**27** *(1.063)*			**12,72** *(0.50)*	**2,7** *(0.106)*	**11,50** *(0.452)*	**18,50** *(0.728)*	**8** *(0.315)*	**14,30** *(0.563)*		**28,50** *(1.122)*		
SAE08/3					**12,5** *(0.492)*	**14,30** *(0.563)*	**15,90** *(0.626)*			**19,10** *(0.752)*	**5,5** *(0.216)*		**28,6** *(1.126)*	**33,30** *(1.311)*	**41,30** *(1.62)*	**5,5** *(0.21)*
SAE10/2	**7/8-14 UNF**	**20,62** *(0.812)*	**24** *(0.812)*	**30** *(1.181)*				**2,8** *(0.110)*	**16** *(0.630)*	**23,80** *(0.937)*	**11** *(0.433)*	**18,30** *(0.720)*				
SAE10/3					**14** *(0.551)*	**15,90** *(0.626)*	**17,50** *(0.689)*			**23,10** *(0.909)*	**6,5** *(0.256)*		**34** *(1.338)*	**39,60** *(1.560)*	**47,60** *(1.87)*	**6,5** *(0.25)*
SAE12/2	**1-1/16-12 UNF**	**24,73** *(0.973)*	**29,23** *(1.151)*	**38** *(1.496)*			**22,25** *(0.876)*	**3,56** *(0.140)*	**19** *(0.748)*	**34,10** *(1.342)*	**19** *(0.748)*	**24,50** *(0.964)*		**46,80** *(1.842)*		
SAE12/3					**19** *(0.748)*	**22,25** *(0.876)*	**23,82** *(0.938)*			**36,60** *(1.441)*	**16** *(0.630)*		**53** *(2.086)*	**63,50** *(2.5)*	**75,40** *(2.96)*	**16** *(0.62)*
SAE16/2	**1-5/16-12 UNF**	**31,34** *(1.233)*	**35,58** *(1.4)*	**45** *(1.771)*			**28,62** *(1.126)*	**3,49** *(0.137)*	**22** *(0.866)*	**34,10** *(1.342)*	**19** *(0.748)*			**46,80** *(1.842)*		
SAE16/3					**19** *(0.748)*	**27,08** *(1.063)*				**36,60** *(1.441)*	**16** *(0.630)*		**53** *(2.086)*	**64,30** *(2.53)*	**75,40** *(2.96)*	**16** *(0.62)*

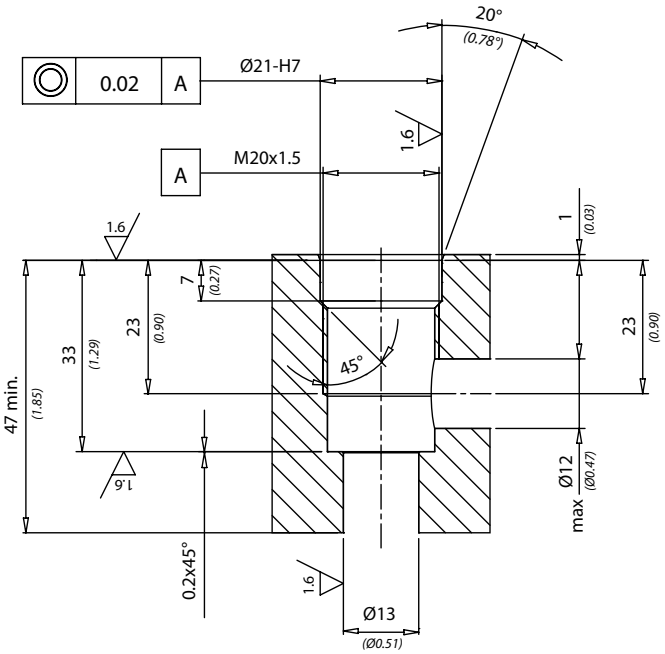
Cavità

Cavities

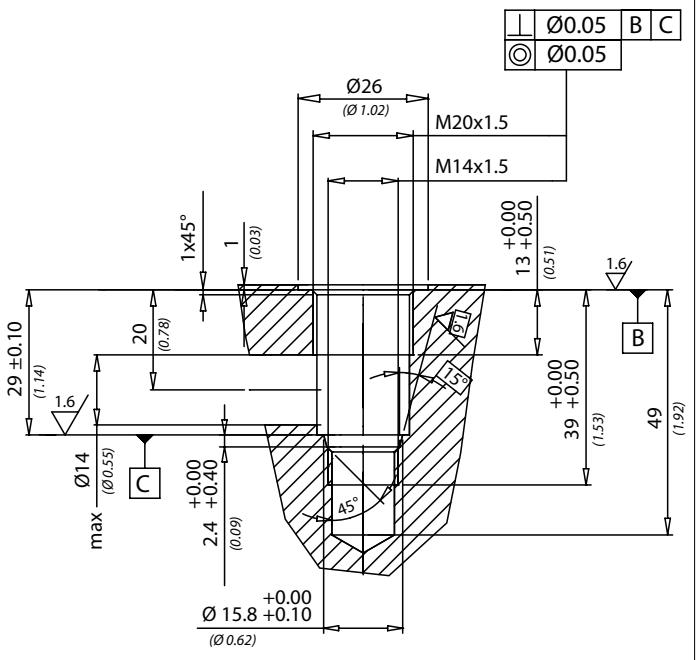
C2015/2



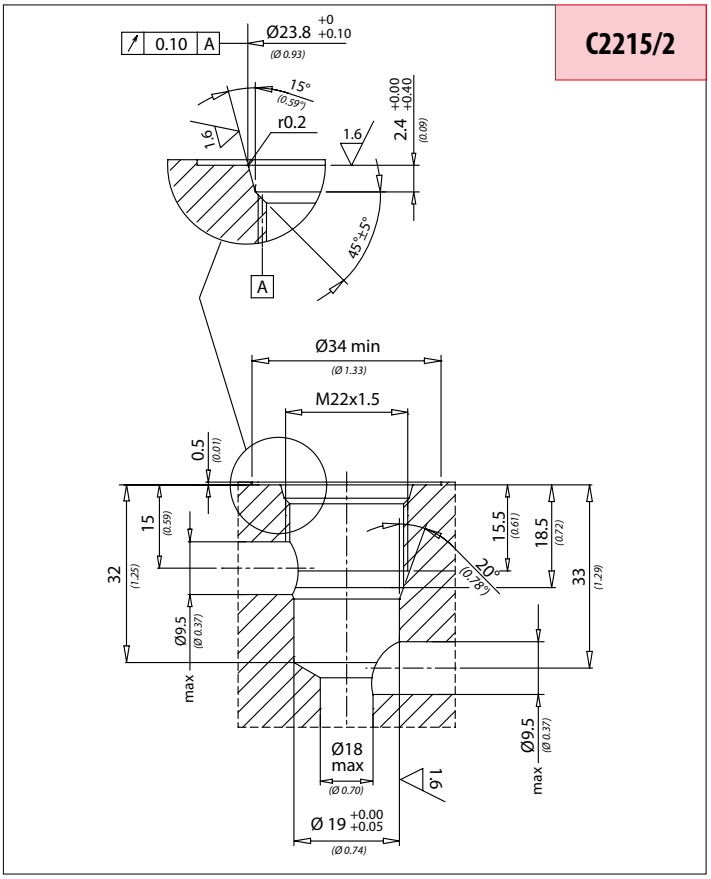
C2015/30



C2015/1415



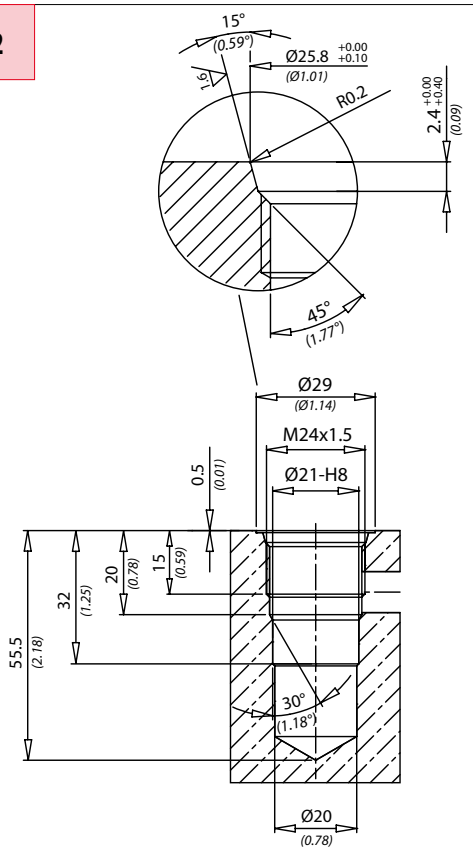
C2215/2



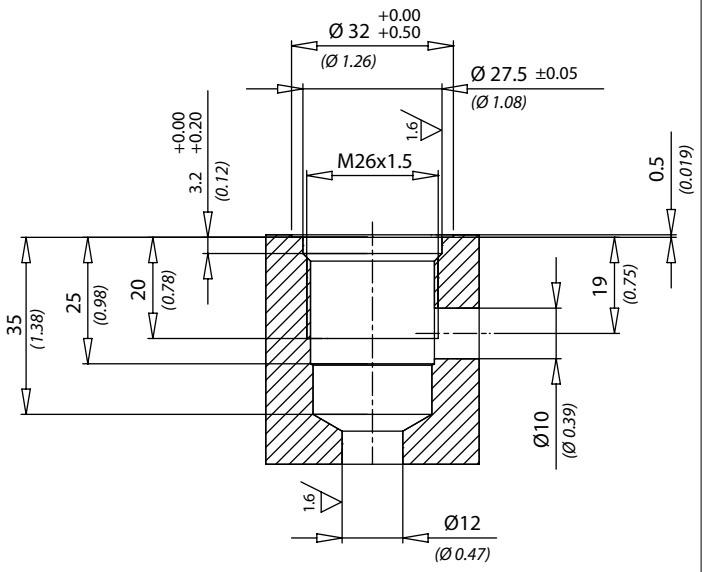
Cavità

Cavities

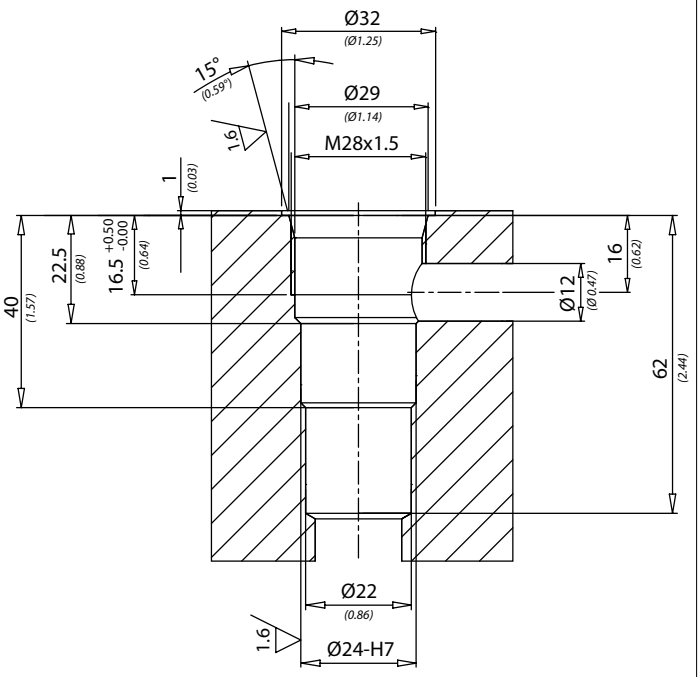
C2415/2



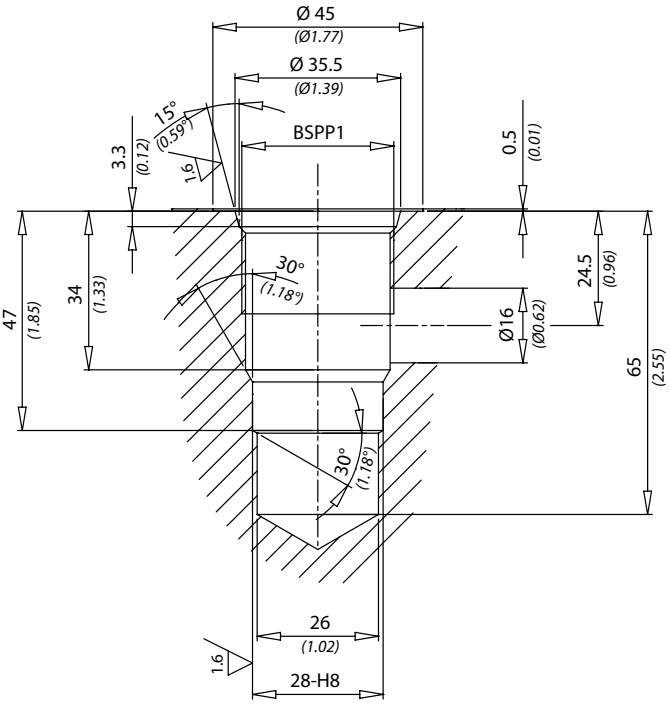
C2615/2



C2815/2



C100/2



Basi e blocchi

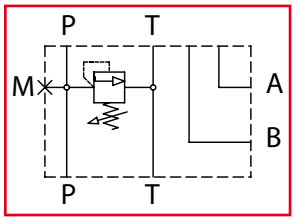
Hydraulic manifolds

Oleoweb

HYDRAULIC VALVES AND COMPONENTS

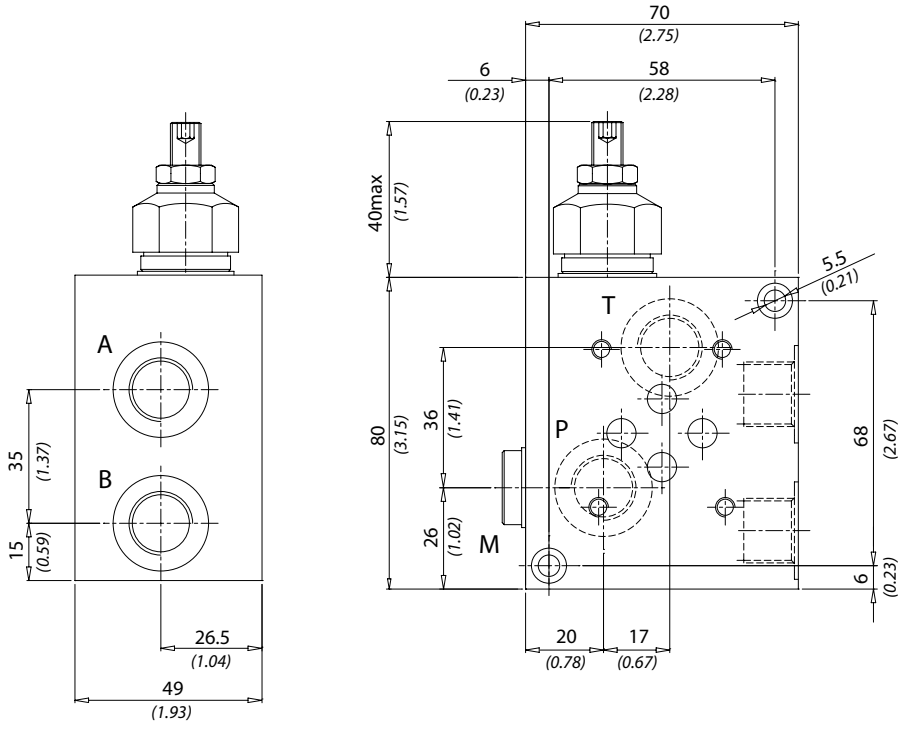
BS3

Basi singole cetop3
Cetop3 single manifolds



Dati tecnici
Technical data

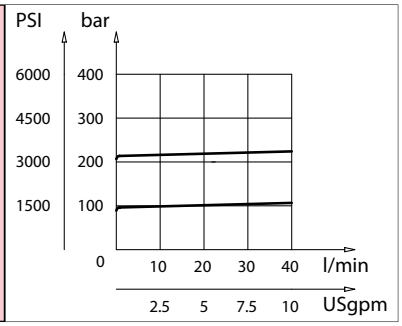
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*
Classe di contaminazione *Filtration*	ISO code 16/13 *SAE class 4 or better*
Temperatura fluido *Fluid temperature*	-20°C +80°C *-4°F + 176°F*
Temperatura ambiente *Ambient temperature*	-20°C +50°C *-4°F +122°F*

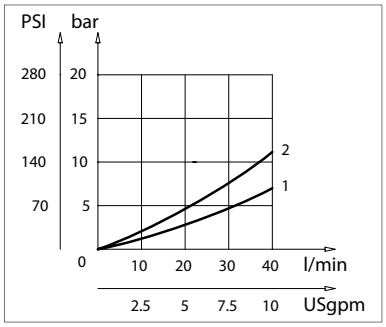


mm
(Inches)

Attacchi / Ports	
P-T-A-B	**BSPP 3/8**
M	**BSPP 1/4**

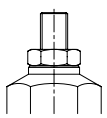
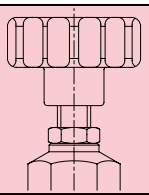
Perdite di carico
Pressure drops





Codice ordinazione
Ordering code

BS3 - X - Y

X	Regolazione / *Setting*
C	
V	

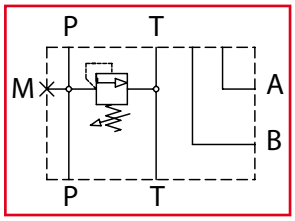
Y	Molla - *Spring*
1	**100 bar** *(1450 PSI)* max
2	**210 bar** *(3000 PSI)* max

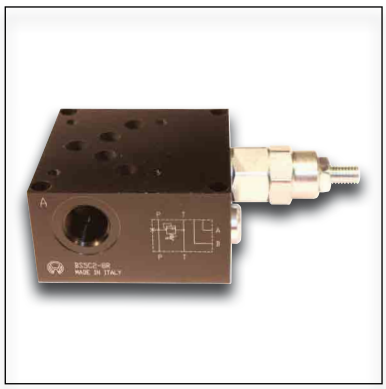
Caratteristiche tecniche
Technical performances

Codice *Code*	**Portata Max** ***Max flow*** l/min - *USgpm*	**Pressione Max** ***Max pressure*** bar/*PSI*	Peso approssimativo *Approx weight* Kg / *lb*	Tipo di valvola *Type of valve*
BS3	**40** *(10)*	**210** *(3000)*	**0,8** *(1.76)*	**VMD40**

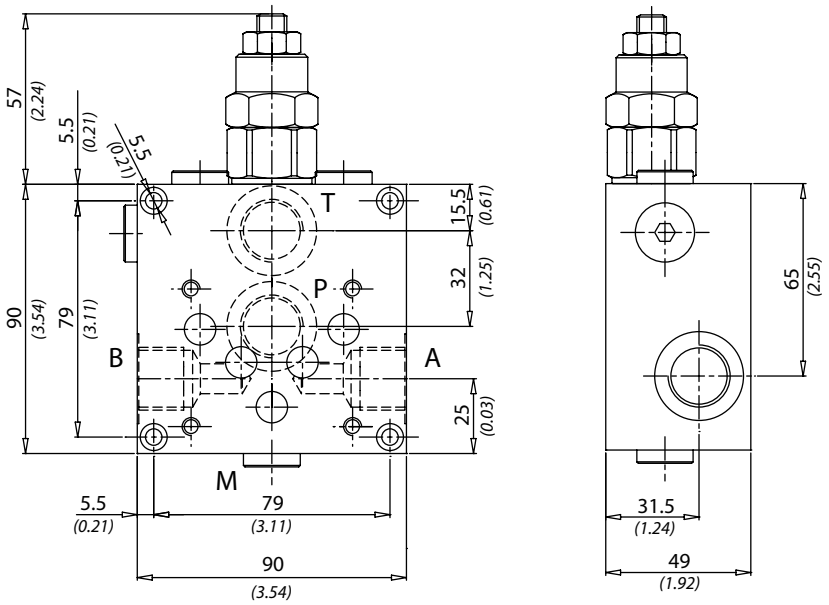
BS5

Basi singole cetop5
Cetop5 single manifolds





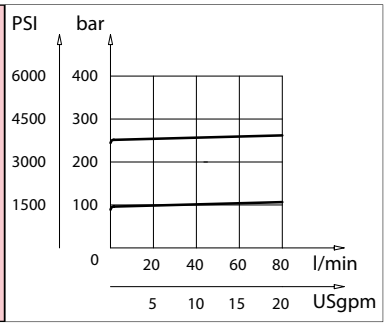
Dati tecnici *Technical data*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*
Classe di contaminazione *Filtration*	ISO code 16/13 *SAE class 4 or better*
Temperatura fluido *Fluid temperature*	-20°C +80°C *-4°F + 176°F*
Temperatura ambiente *Ambient temperature*	-20°C +50°C *-4°F +122°F*

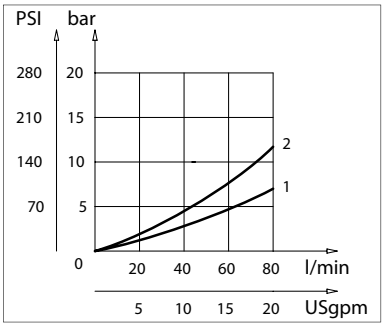


Attacchi / Ports	
P-T-A-B	**BSPP 1/2**
M	**BSPP 1/4**

mm
(Inches)

Perdite di carico
Pressure drops

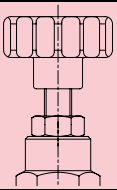




Caratteristiche tecniche *Technical performances*				
Codice *Code*	**Portata Max** ***Max flow*** **l/min - *USgpm***	**Pressione Max** ***Max pressure*** **bar/*PSI***	Peso approssimativo *Approx weight* Kg / *lb*	Tipo di valvola *Type of valve*
BS5	**80** *(20)*	**210** *(3000)*	**1,25** *(2.75)*	**VMD90**

Codice ordinazione
Ordering code

BS5 - X - Y

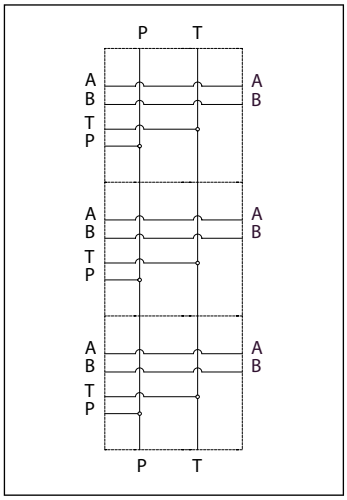
X	Regolazione / *Setting*
C	
V	

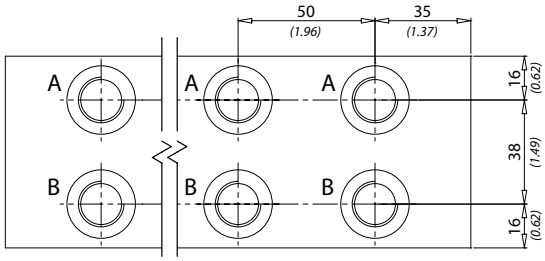
Y	Molla - *Spring*
1	**100 bar** *(1450 PSI)* max
2	**210 bar** *(3000 PSI)* max

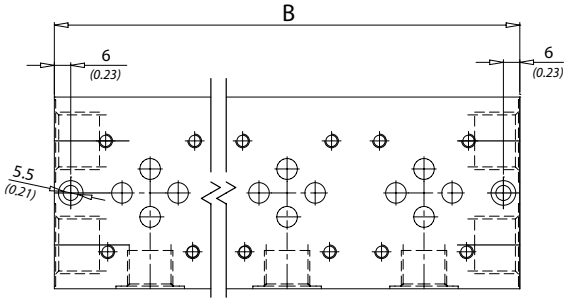
BM

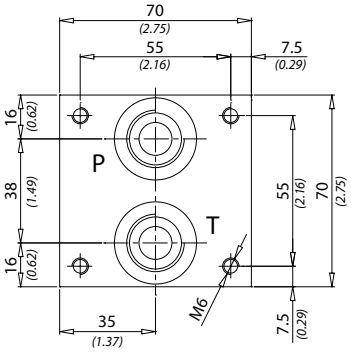
Basi multiple in parallelo - utilizzati laterali senza valvola di massima pressione
Parallel multiple manifolds - lateral ports without relief valve

Dati tecnici *Technical data*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*
Classe di contaminazione *Filtration*	ISO code 16/13 *SAE class 4 or better*
Temperatura fluido *Fluid temperature*	-20°C +80°C *-4°F + 176°F*
Temperatura ambiente *Ambient temperature*	-20°C +50°C *-4°F +122°F*





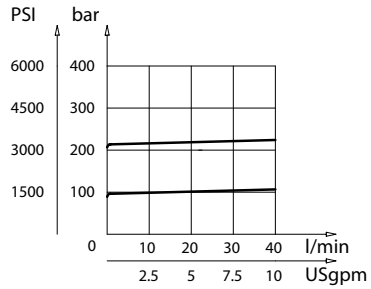


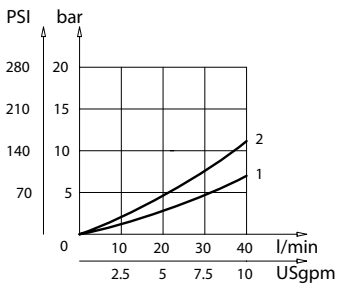


Attacchi / Ports	
P-T	**BSPP 1/2**
M	**BSPP 1/4**
A-B	**BSPP 3/8**

mm / *(Inches)*

Perdite di carico *Pressure drops*





Caratteristiche tecniche *Technical performances*

Codice *Code*	N. di stazioni *N. of stations*	B	Portata Max *Max flow* l/min - *USgpm*	Pressione Max *Max pressure* bar/*PSI*	Peso approssimativo *Approx weight* Kg / *lb*	Tipo di valvola *Type of valve*
BM2	**2**	**120** *(4.72)*	**40** *(10)*	**210** *(3000)*	**1,5** *(3.30)*	**VMD90**
BM3	**3**	**170** *(6.69)*			**2,1** *(4.62)*	
BM4	**4**	**220** *(8.66)*			**2,7** *(5.95)*	
BM5	**5**	**270** *(10.63)*			**3,3** *(7.27)*	
BM6	**6**	**320** *(12.60)*			**3,9** *(8.59)*	

Codice ordinazione *Ordering code*

BM - X - A

X	Stazioni / *Stations*
2	**Numero di stazioni** *Number of stations*
3	
4	
5	
6	

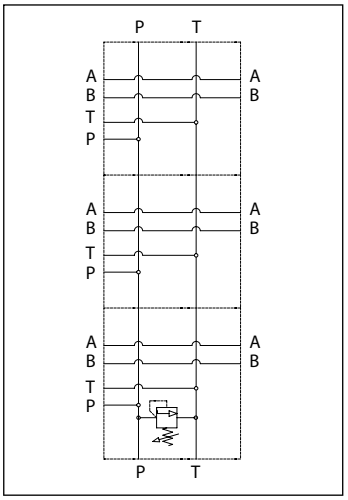
A: Alluminio /*Aluminium*

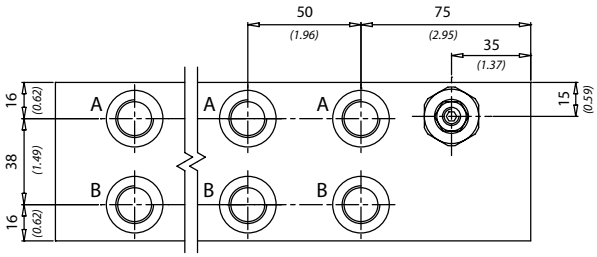
BM

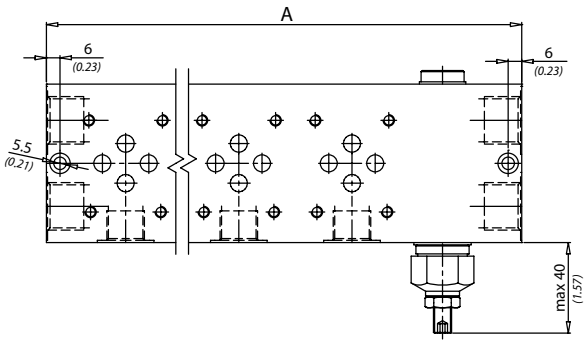
Basi multiple in parallelo - utilizzati laterali con valvola di massima pressione
Parallel multiple manifolds - lateral ports with relief valve

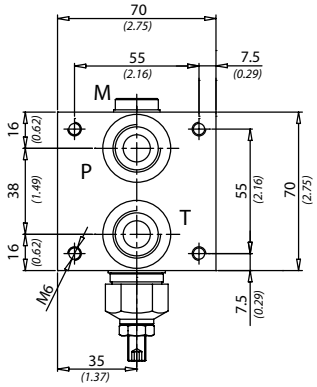
Dati tecnici
Technical data

Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*
Classe di contaminazione *Filtration*	ISO code 16/13 *SAE class 4 or better*
Temperatura fluido *Fluid temperature*	-20°C +80°C *-4°F + 176°F*
Temperatura ambiente *Ambient temperature*	-20°C +50°C *-4°F +122°F*



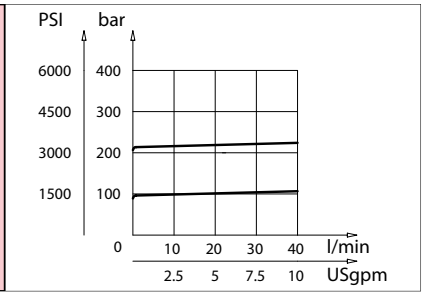


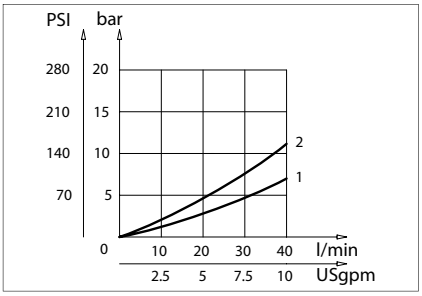




Attacchi / Ports	
P-T	**BSPP 1/2**
M	**BSPP 1/4**
A-B	**BSPP 3/8**

Perdite di carico
Pressure drops





mm
(Inches)

Caratteristiche tecniche
Technical performances

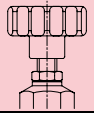
Codice *Code*	N. di stazioni *N. of stations*	A	Portata Max *Max flow* l/min - *USgpm*	Pressione Max *Max pressure* bar/*PSI*	Peso approssimativo *Approx weight* Kg / *lb*	Tipo di valvola *Type of valve*
BM2	**2**	**160** *(6.30)*	**40** *(10)*	**210** *(3000)*	**2,2** *(4.8)*	**VMD90**
BM3	**3**	**210** *(8.27)*			**2,8** *(6.1)*	
BM4	**4**	**260** *(10.24)*			**3,4** *(7.49)*	
BM5	**5**	**310** *(12.20)*			**4** *(8.81)*	
BM6	**6**	**360** *(14.17)*			**4,6** *(10.14)*	

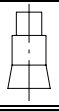
A: Alluminio */Aluminium*

Codice ordinazione
Ordering code

BM - X - A - Y - K - Z

X	Stazioni / *Stations*
2	**Numero di stazioni** *Number of stations*
3	
4	
5	
6	

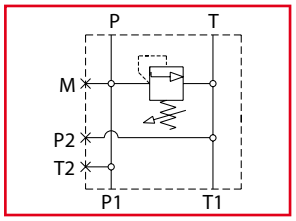
Y	Regolazione / *Setting*
C	
V	

Z	Optional
S	

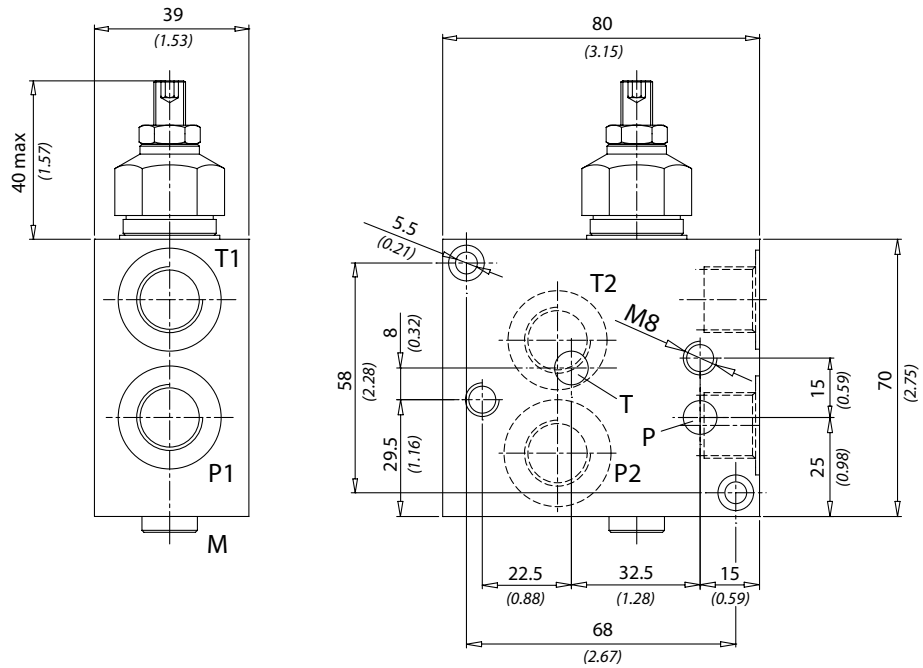
K	Molla - *Spring*
1	**100 bar** *(1450 PSI)* max
2	**210 bar** *(3500 PSI)* max

BC3

Base componibile cetop3
Cetop3 bankable manifolds



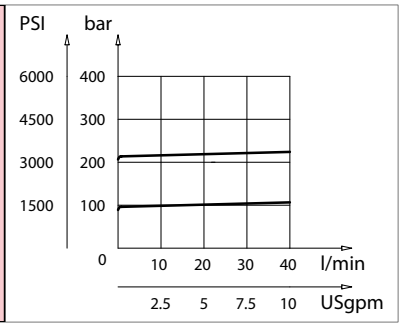
Dati tecnici *Technical data*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*
Classe di contaminazione *Filtration*	ISO code 16/13 *SAE class 4 or better*
Temperatura fluido *Fluid temperature*	-20°C +80°C *-4°F + 176°F*
Temperatura ambiente *Ambient temperature*	-20°C +50°C *-4°F +122°F*

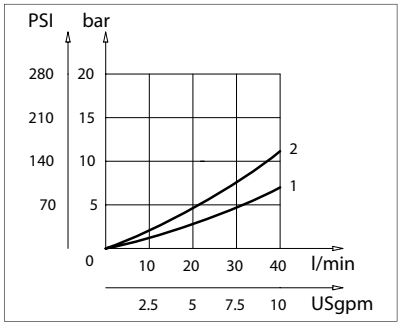


Attacchi / Ports	
P-T-A-B	**BSPP 3/8**
M	**BSPP 1/4**

mm
(Inches)

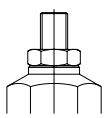
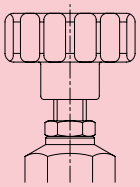
Perdite di carico
Pressure drops





Codice ordinazione
Ordering code

BC3 - X - Y

X	Regolazione / *Setting*
C	
V	

Y	Molla - *Spring*
1	**100 bar** *(1450 PSI)* max
2	**250 bar** *(3500 PSI)* max

Caratteristiche tecniche
Technical performances

Codice *Code*	**Portata Max** ***Max flow*** **l/min - *USgpm***	**Pressione Max** ***Max pressure*** **bar/*PSI***	Peso approssimativo *Approx weight* Kg / *lb*	Tipo di valvola *Type of valve*
BC3	**40** *(10)*	**210** *(3000)*	**0,8** *(1.76)*	**VMD40**

Componenti per minicentralina

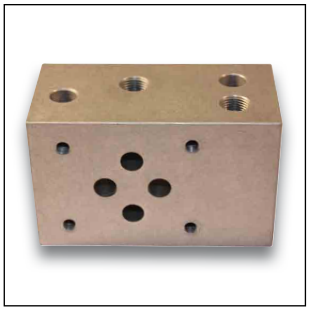
Accessories for mini-power packs

Oleoweb

HYDRAULIC VALVES AND COMPONENTS

Blocchi

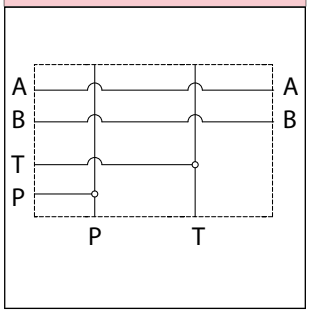
Manifolds



mm
(Inches)

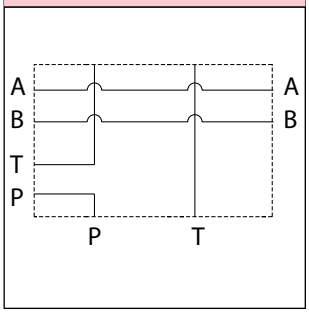
BLOCCO 01
(Manifold 01)

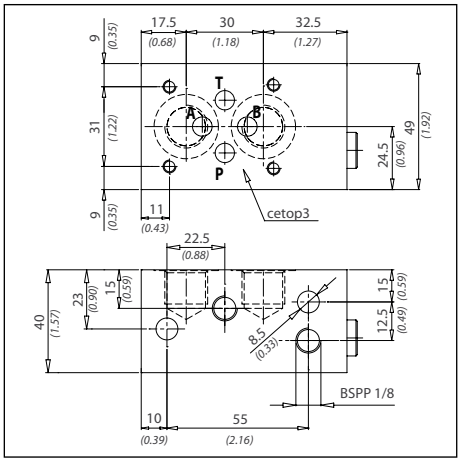
Cod. **MPP3380A**

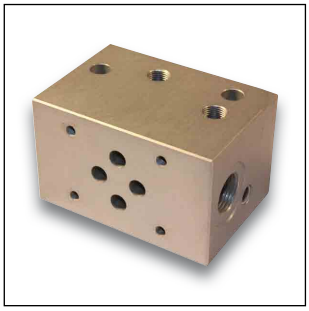


BLOCCO 02
(Manifold 02)

Cod. **MSP3380A**

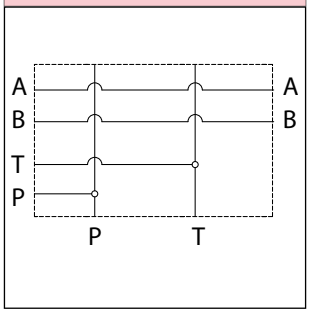






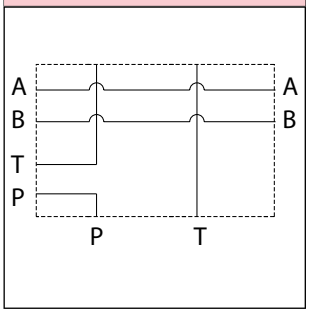
BLOCCO 03
(Manifold 03)

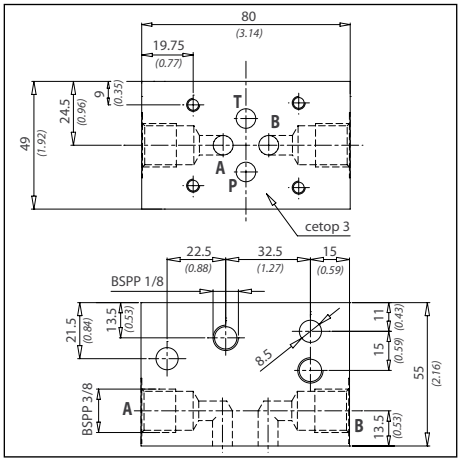
Cod. **MPL3380A**



BLOCCO 04
(Manifold 04)

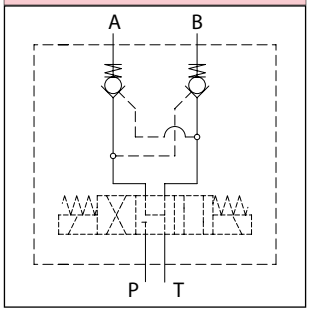
Cod. **MSL3380A**





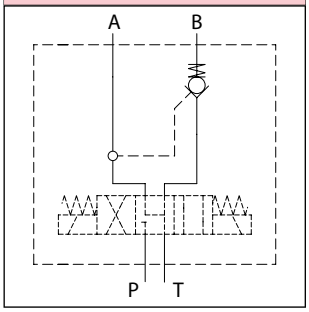
BLOCCO 06
(Manifold 06)

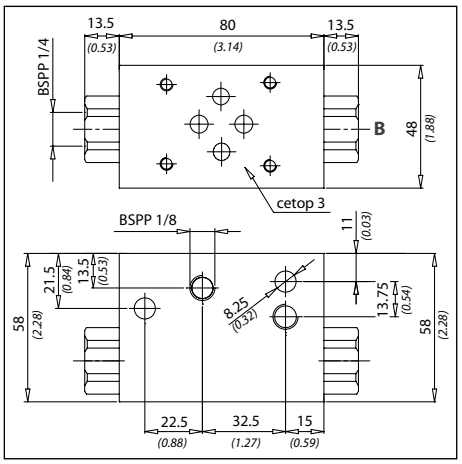
Cod. **13100016**



BLOCCO 07
(Manifold 07)

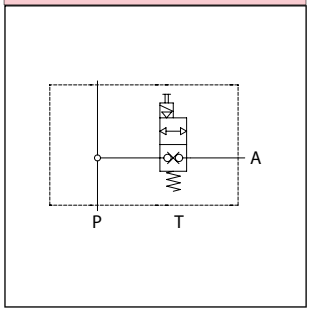
Cod. **13100017**

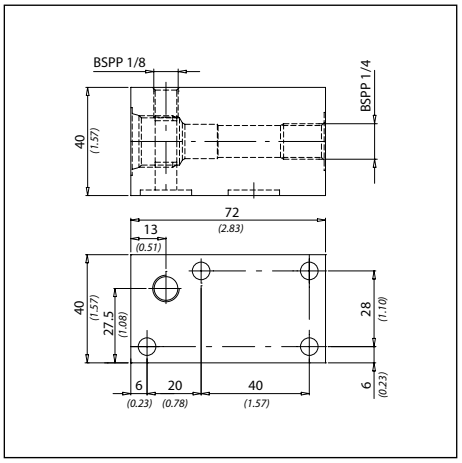




BLOCCO 08
(Manifold 08)

Cod. **13100009**





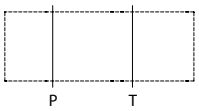
Blocchi

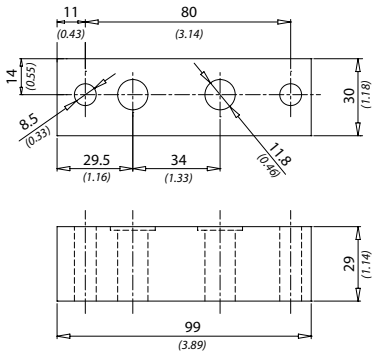
Manifolds

mm
(Inches)

BLOCCO 20
(Manifold 20)

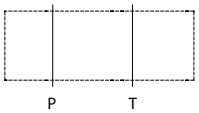
Cod. **13100006**

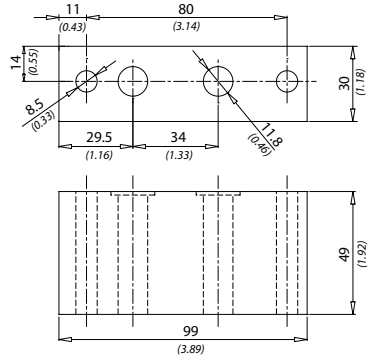




BLOCCO 21
(Manifold 21)

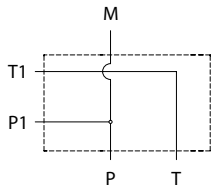
Cod. **13100007**

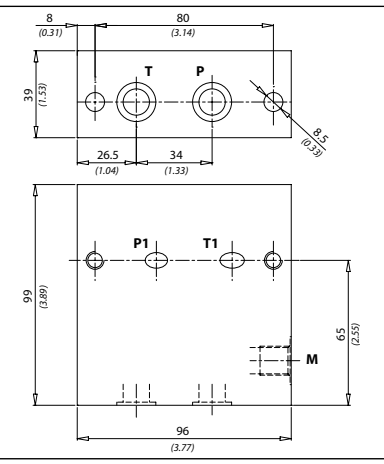




BLOCCO 22
(Manifold 22)

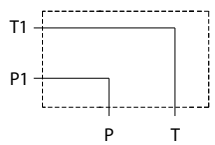
Cod. **13100012**

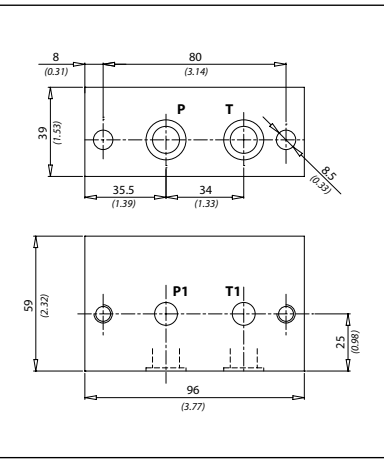




BLOCCO 23
(Manifold 23)

Cod. **13100013**





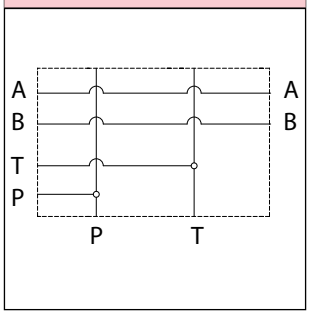
Blocchi

Manifolds

mm
(Inches)

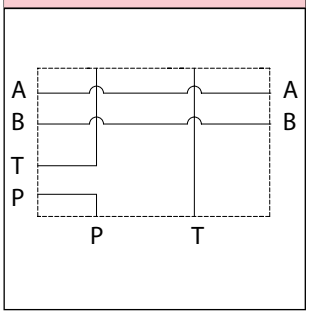
BLOCCO 24
(Manifold 24)

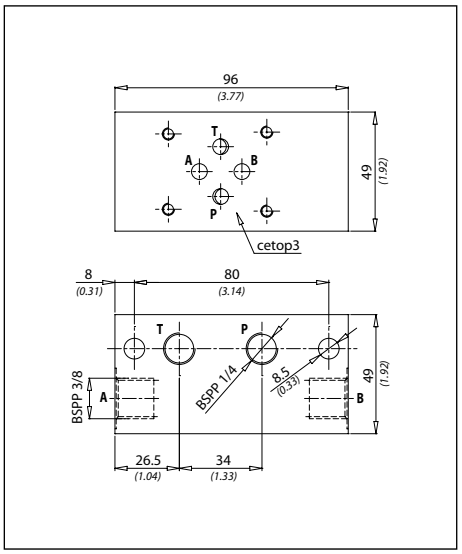
Cod. **13100004**

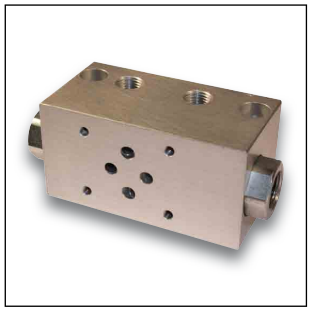


BLOCCO 25
(Manifold 25)

Cod. **13100014**

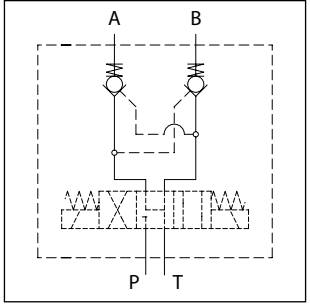






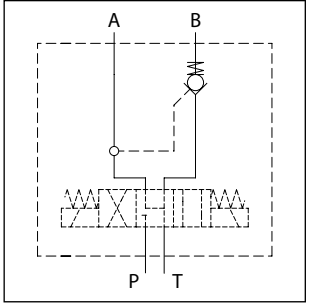
BLOCCO 26
(Manifold 26)

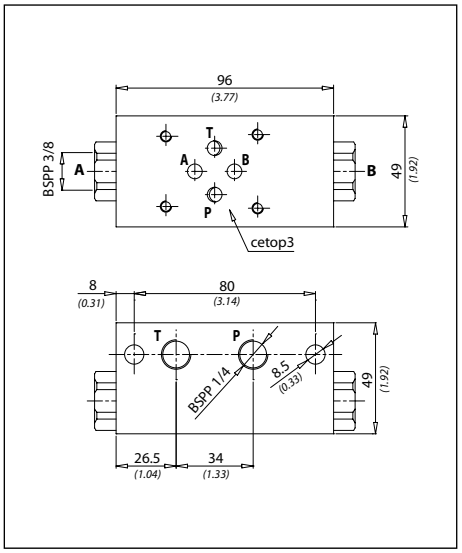
Cod. **13100011**



BLOCCO 27
(Manifold 27)

Cod. **13100015**





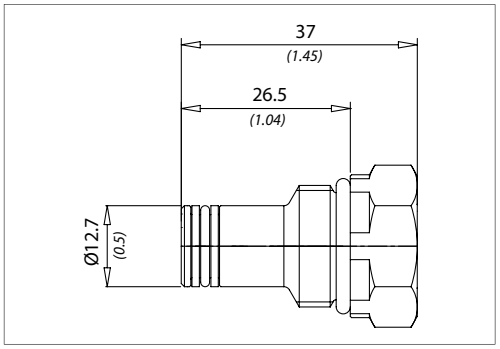
Tappi

Plugs

TAPPO A
(Plug A)

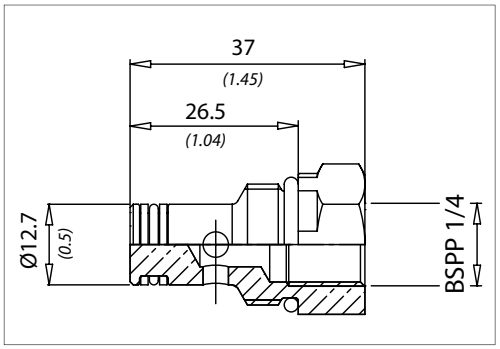
Cod. **11200001**

mm
(Inches)



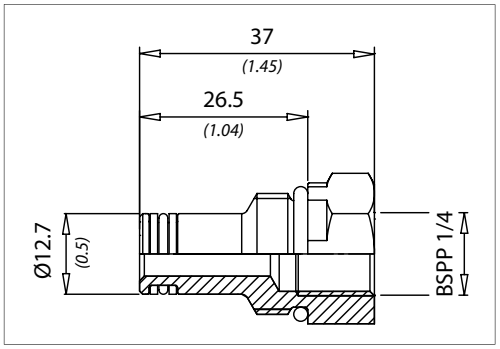
TAPPO B
(Plug B)

Cod. **12000162**



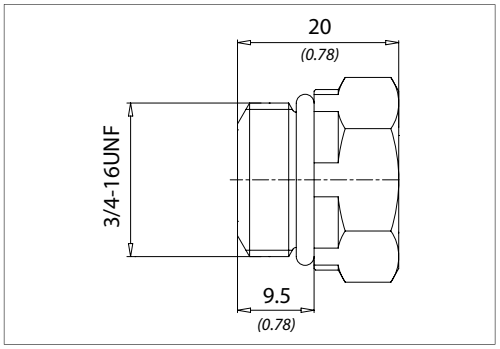
TAPPO C
(Plug C)

Cod. **12000182**



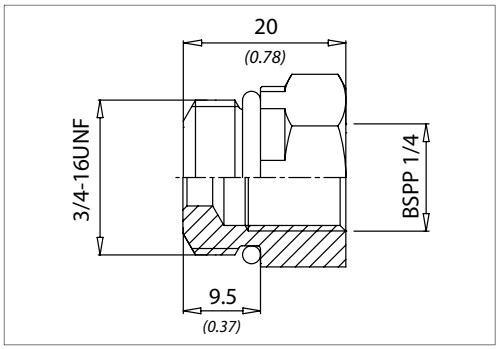
TAPPO D
(Plug D)

Cod. **12000184**



TAPPO E
(Plug E)

Cod. **12000183**



Pompe e deviatori

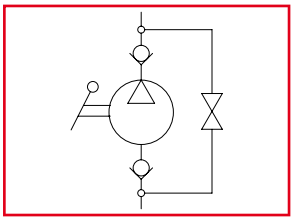
Hand pumps flow diverters

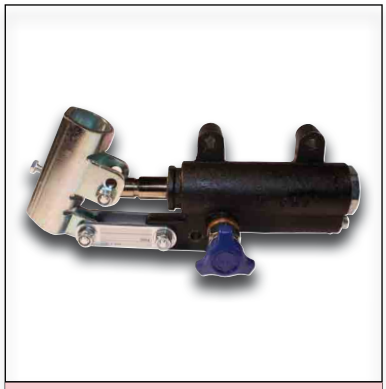
Oleoweb

HYDRAULIC VALVES AND COMPONENTS

PM20

Pompa a mano semplice effetto
Single acting hand pump

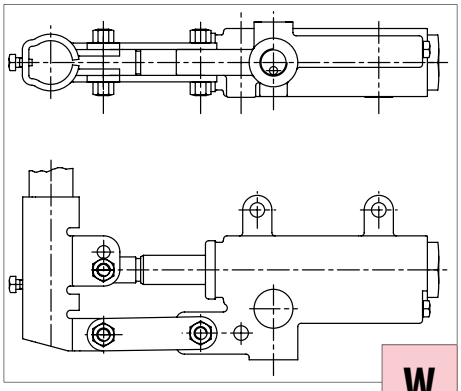


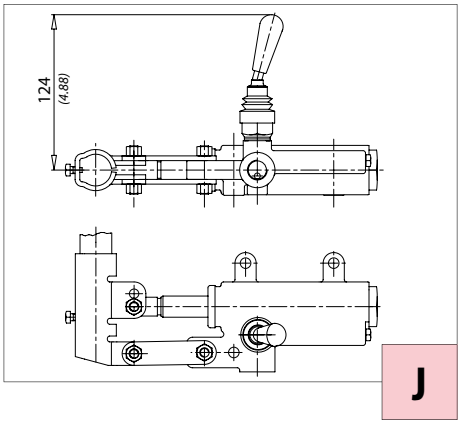


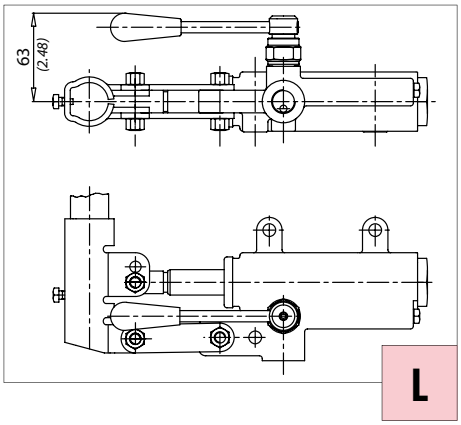
La pompa viene fornita con leva di azionamento L=600 mm
The pump is supplied with acting lever 23 in. long

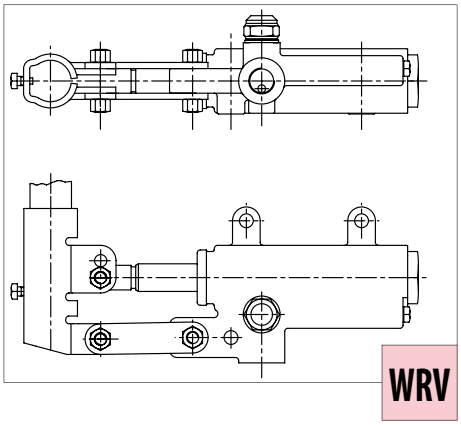
Dati tecnici
Technical data

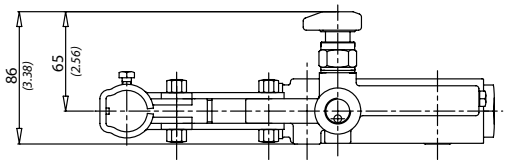
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*
Classe di contaminazione *Filtration*	ISO code 16/13 *SAE class 4 or better*
Temperatura fluido *Fluid temperature*	-20°C +80°C *-4°F + 176°F*
Temperatura ambiente *Ambient temperature*	-20°C +50°C *-4°F +122°F*

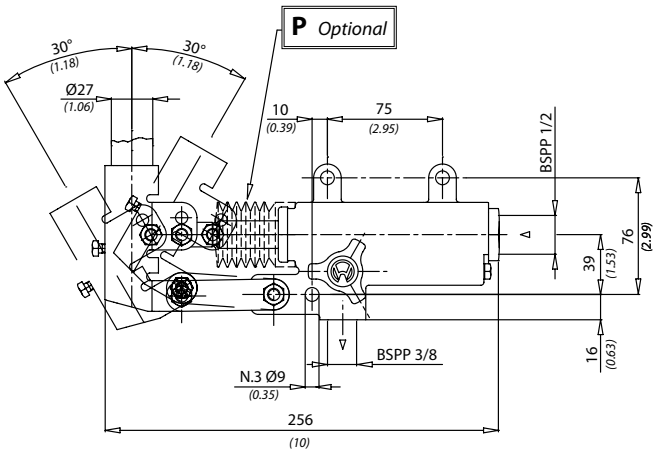






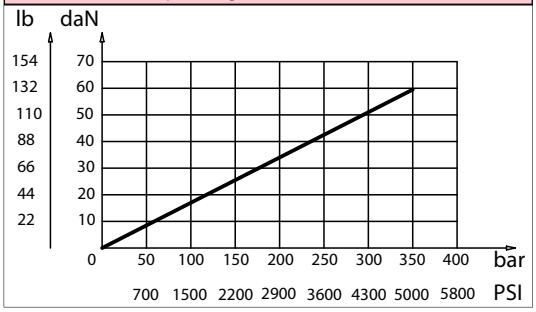






mm
(Inches)

Sforzo esercitato all'estremità della leva
Effort operating on the end of the lever



Caratteristiche tecniche
Technical performances

Codice *Code*	**Pressione Max** *Max pressure* bar/*PSI*	Peso approssimativo *Approx weight* Kg / *lb*	Cilindrata *Displacement* cm^3 / *in3*
PM20	**350** *(5000)*	**3,4** *(7.5)*	**20** *(1.22)*

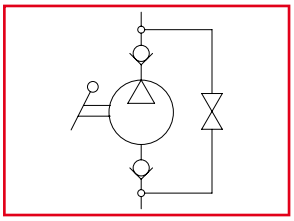
Codice ordinazione
Ordering code

PM20 - X

X	Optional
P	**Soffietto** *With rubber protection*
WRV	**Senza rubinetto di scarico con valvola di massima** *Without unloading valve with relief valve*
W	**Senza rubinetto di scarico** *Without unloading valve*
J	**Con joistick** *With joistick*
L	**Con leva di scarico** *With unloading lever*

PM50

Pompa a mano semplice effetto
Single acting hand pump



La pompa viene fornita con leva di azionamento L=600 mm
The pump is supplied with acting lever 23 in. long

Dati tecnici
Technical data

Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*
Classe di contaminazione *Filtration*	ISO code 16/13 *SAE class 4 or better*
Temperatura fluido *Fluid temperature*	-20°C +80°C *-4°F + 176°F*
Temperatura ambiente *Ambient temperature*	-20°C +50°C *-4°F +122°F*

Caratteristiche tecniche
Technical performances

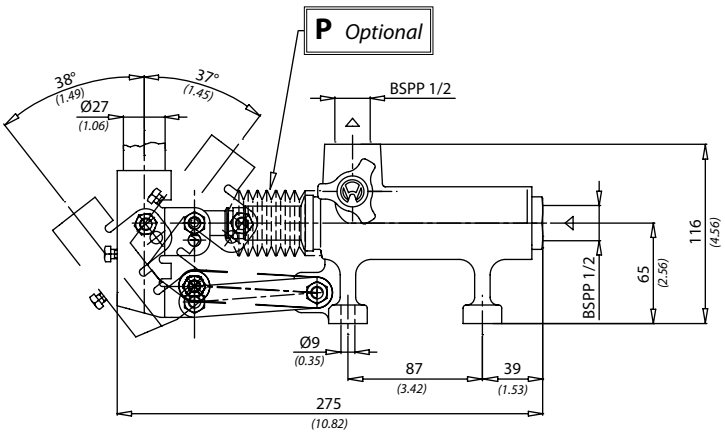
Codice *Code*	Pressione Max *Max pressure* bar/*PSI*	Peso approssimativo *Approx weight* Kg / *lb*	Cilindrata *Displacement* cm^3 / *in3*
PM50	**280** *(4000)*	**3,6** *(7.9)*	**50** *(3.05)*

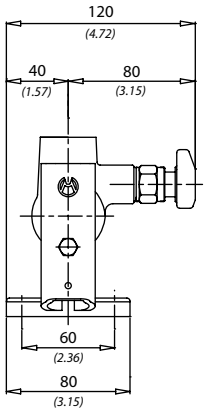
mm / *(Inches)*

Codice ordinazione
Ordering code

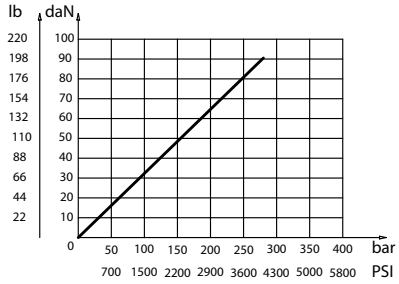
PM50 - X

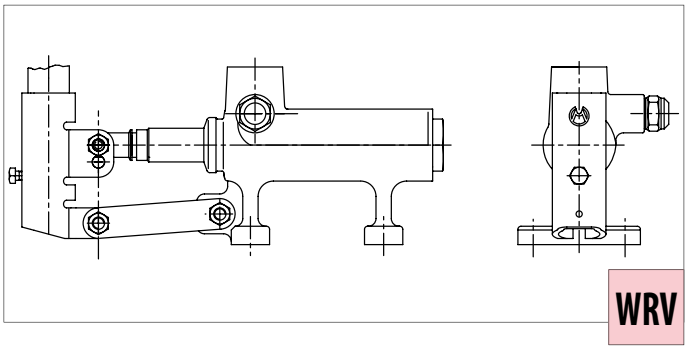
X	Optional
P	**Soffietto** *With rubber protection*
WRV	**Senza rubinetto di scarico con valvola di massima** *Without unloading valve with relief valve*
W	**Senza rubinetto di scarico** *Without unloading valve*
J	**Con joistick** *With joistick*
L	**Con leva di scarico** *With unloading lever*

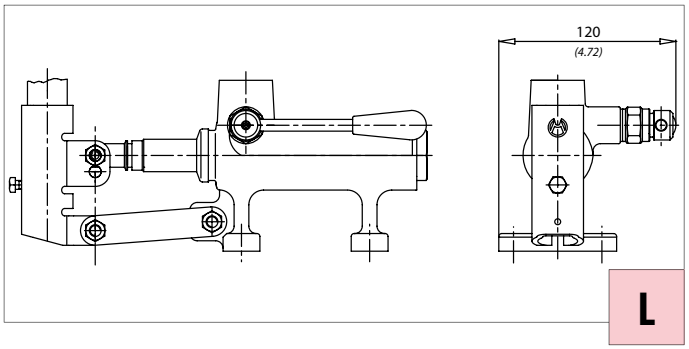


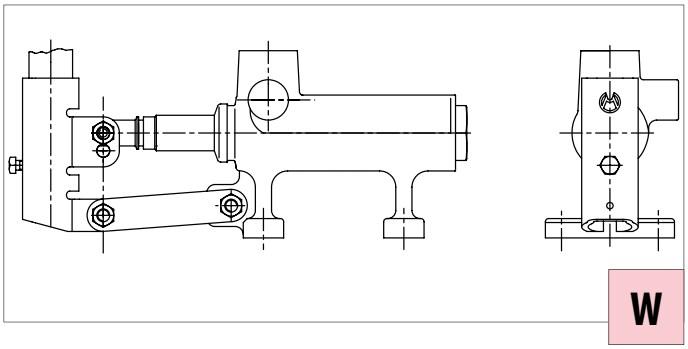


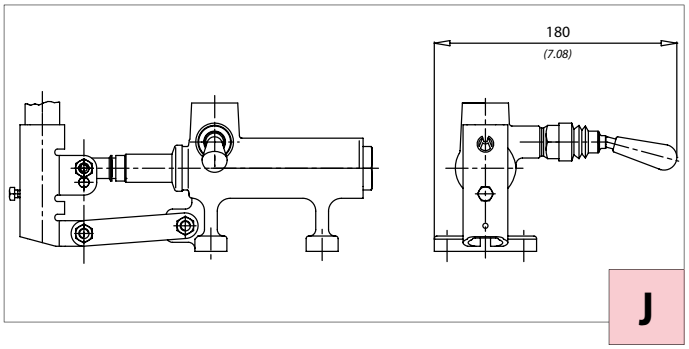
Sforzo esercitato all'estremità della leva
Effort operating on the end of the lever





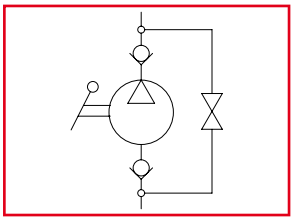


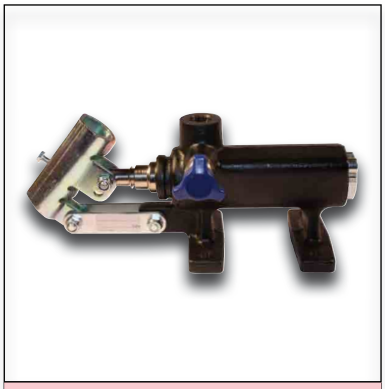




PM70

Pompa a mano semplice effetto
Single acting hand pump





La pompa viene fornita con leva di azionamento L=600 mm
The pump is supplied with acting lever 23 in. long

Dati tecnici
Technical data

Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*
Classe di contaminazione *Filtration*	ISO code 16/13 *SAE class 4 or better*
Temperatura fluido *Fluid temperature*	-20°C +80°C *-4°F + 176°F*
Temperatura ambiente *Ambient temperature*	-20°C +50°C *-4°F +122°F*

Caratteristiche tecniche
Technical performances

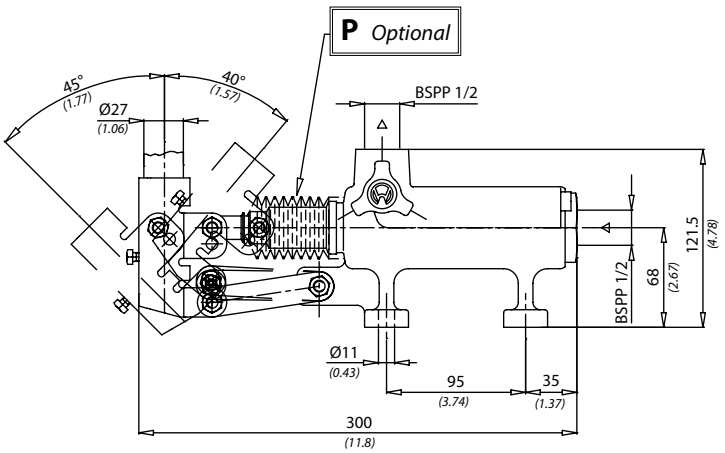
Codice *Code*	Pressione Max *Max pressure* bar/*PSI*	Peso approssimativo *Approx weight* Kg / *lb*	Cilindrata *Displacement* cm^3 / *in3*
PM50	**230** *(3300)*	**6** *(13.2)*	**70** *(4.27)*

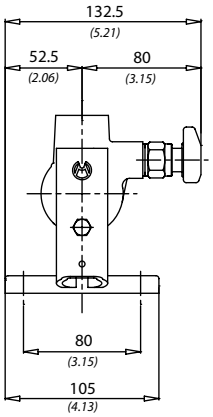
mm / *(Inches)*

Codice ordinazione
Ordering code

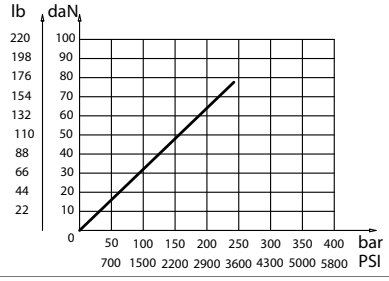
PM70 - X

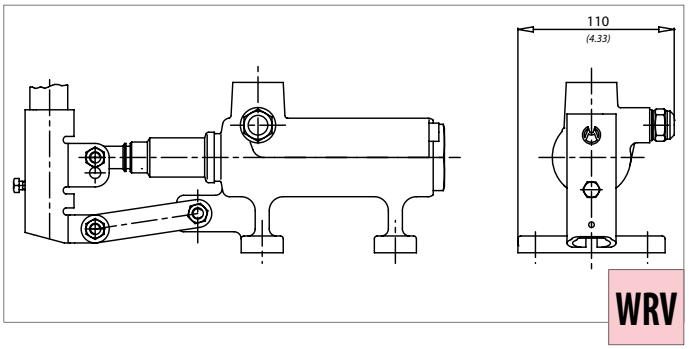
X	Optional
P	**Soffietto** *With rubber protection*
WRV	**Senza rubinetto di scarico con valvola di massima** *Without unloading valve with relief valve*
W	**Senza rubinetto di scarico** *Without unloading valve*
J	**Con joistick** *With joistick*
L	**Con leva di scarico** *With unloading lever*

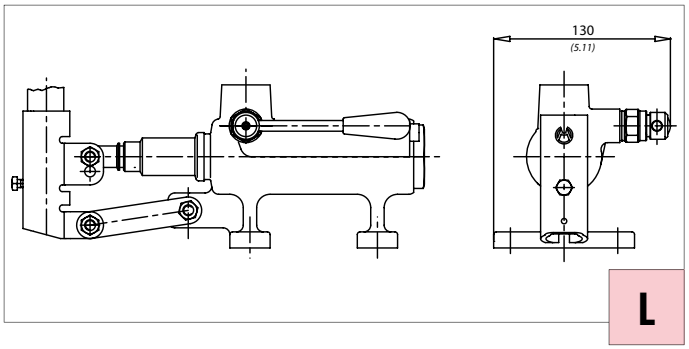


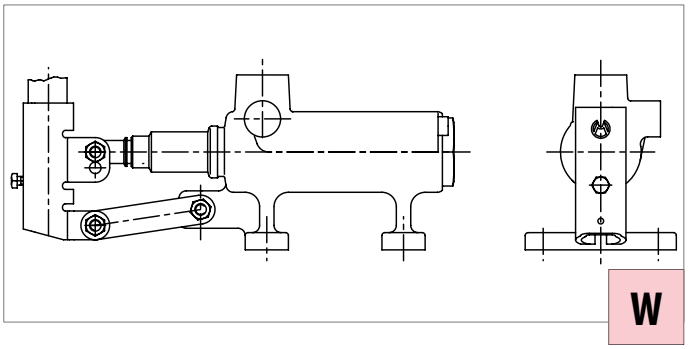


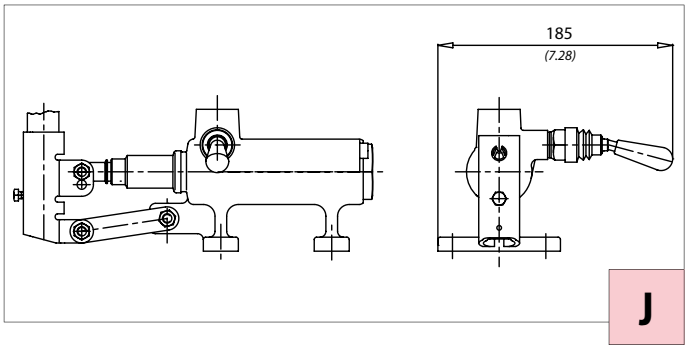
Sforzo esercitato all'estremità della leva
Effort operating on the end of the lever





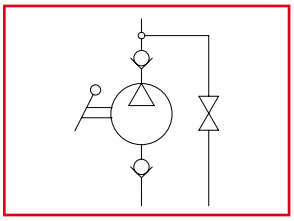






PMS

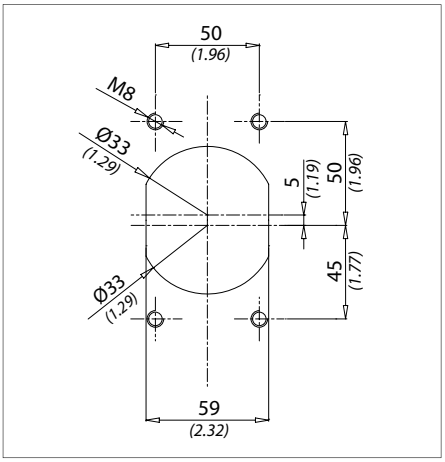
Pompa a mano semplice effetto
Single acting hand pump

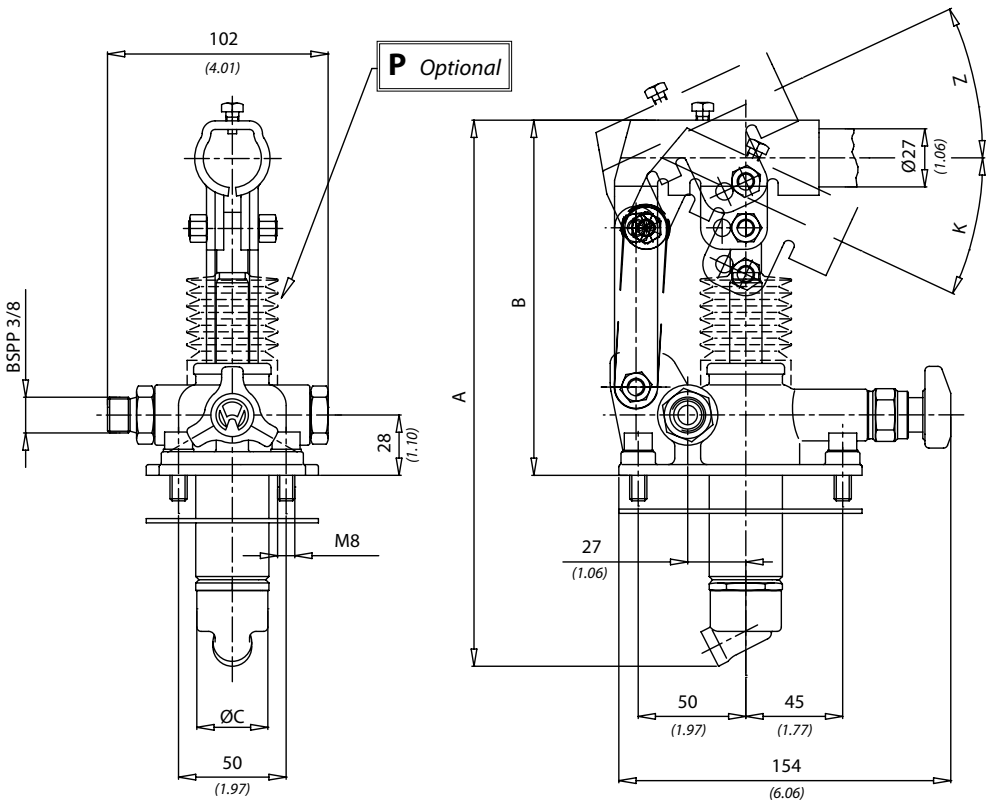


La pompa viene fornita con guarnizione sagomata + viti di fissaggio + leva di azionamento L=600 mm
The pump is supplied with shaped seal, fixing screws and acting lever 23 in. long

Dati tecnici
Technical data

Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*
Classe di contaminazione *Filtration*	ISO code 16/13 *SAE class 4 or better*
Temperatura fluido *Fluid temperature*	-20°C +80°C *-4°F + 176°F*
Temperatura ambiente *Ambient temperature*	-20°C +50°C *-4°F +122°F*



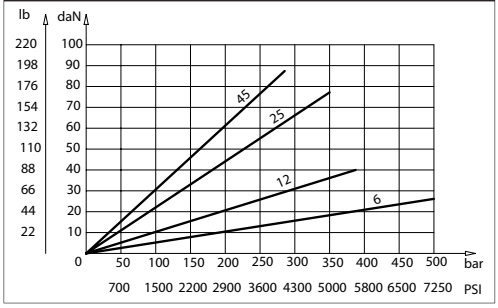


mm
(Inches)

Caratteristiche tecniche
Technical performances

Codice *Code*	Pressione Max *Max pressure* bar/*PSI*	Peso approssimativo *Approx weight* Kg / *lb*
PMS6	**500** *(7250)*	**3,9** *(8.6)*
PMS12	**380** *(5500)*	
PMS25	**350** *(5000)*	
PMS45	**280** *(4000)*	

Sforzo esercitato all'estremità della leva
Effort operating on the end of the lever



Y	Cilindrata / *Displacement*	K	Z	A	B	C
6	**6 cm³** *(0.36 in³)*	**31°**	**26°**	**253** *(9.96)*	**166** *(6.53)*	**34** *(1.33)*
12	**12 cm³** *(0.73 in³)*	**31°**	**35°**			
25	**25 cm³** *(1.52 in³)*	**30°**	**25°**	**273** *(10.74)*	**172** *(6.77)*	
45	**45 cm³** *(2.75 in³)*	**33°**	**35°**	**283** *(11.14)*		**40** *(1.57)*

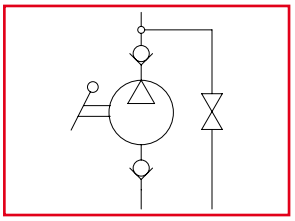
Codice ordinazione
Ordering code

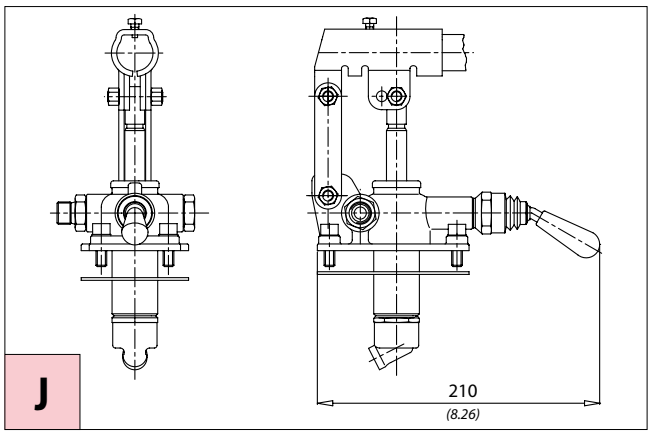
PMS - Y - X

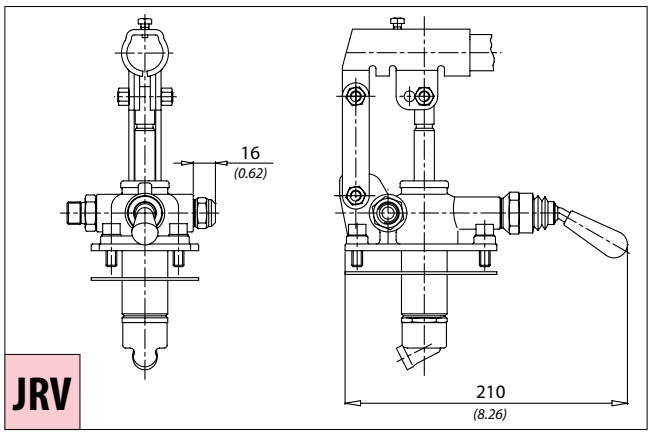
X	Optional
P	**Soffietto** *With rubber protection*
WRV	**Senza rubinetto di scarico con valvola di massima** *Without unloading valve with relief valve*
W	**Senza rubinetto di scarico** *Without unloading valve*
J	**Con joistick** *With joistick*
L	**Con leva di scarico** *With unloading lever*
RV	**Con valvola di massima press.** *With relief valve*
JRV	**Con joistick e valvola di massima pressione** *With joistick and relief valve*
LRV	**Con leva di scarico e valvola di massima pressione** *With unloading lever and relief valve*

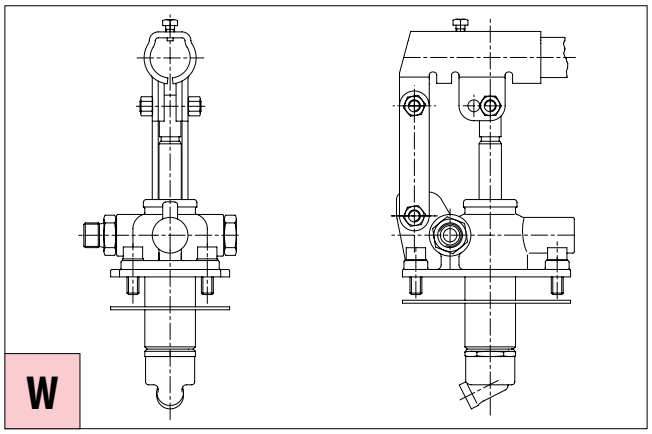
PMS

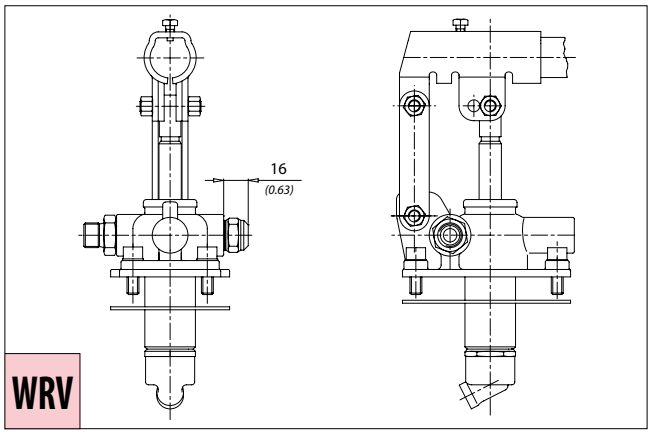
Pompa a mano semplice effetto
Single acting hand pump

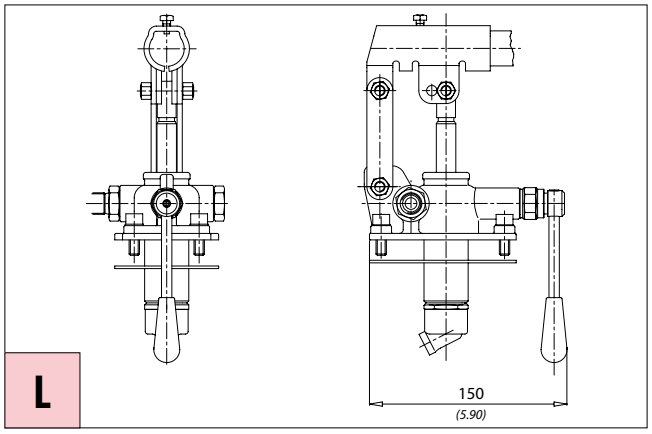


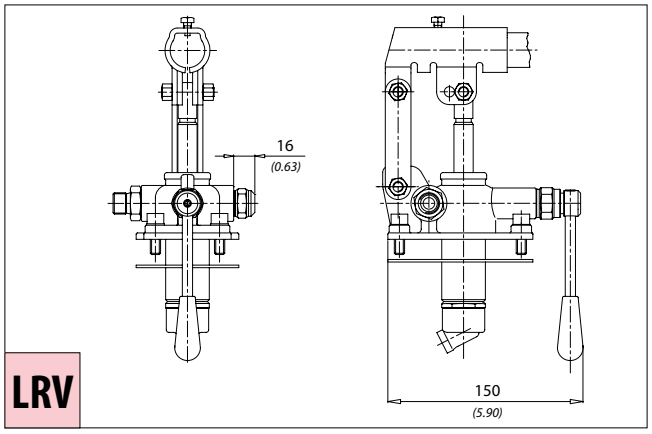


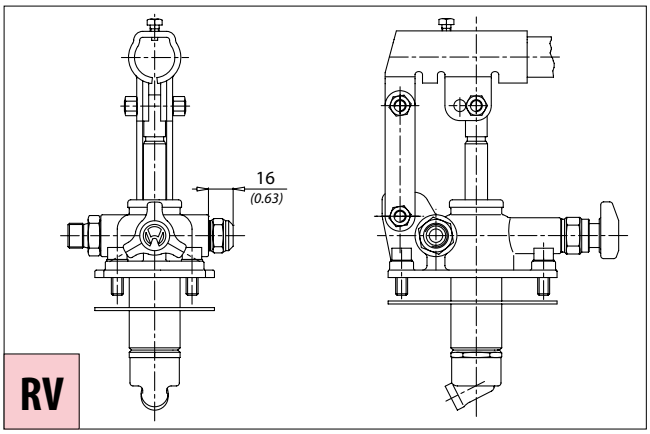






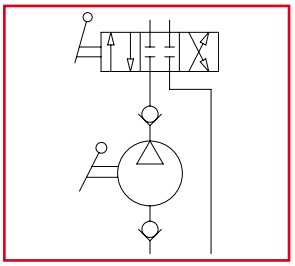


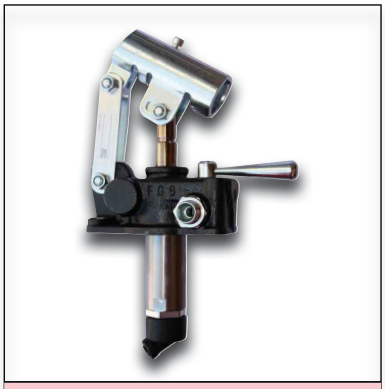




PMI

Pompa a mano doppio effetto centro chiuso
Double acting hand pump closed center

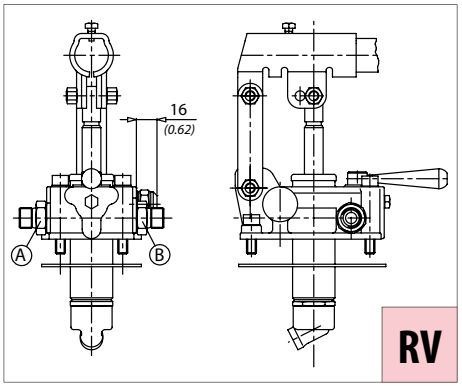


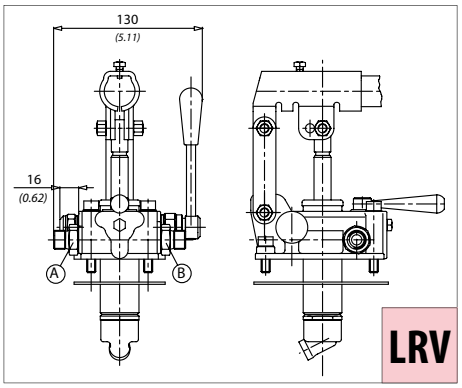


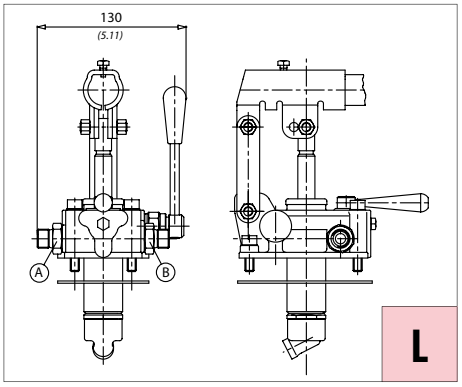
La pompa viene fornita con guarnizione sagomata + viti di fissaggio + leva di azionamento L=600 mm
The pump is supplied with shaped seal, fixing screws and acting lever 23 in. long

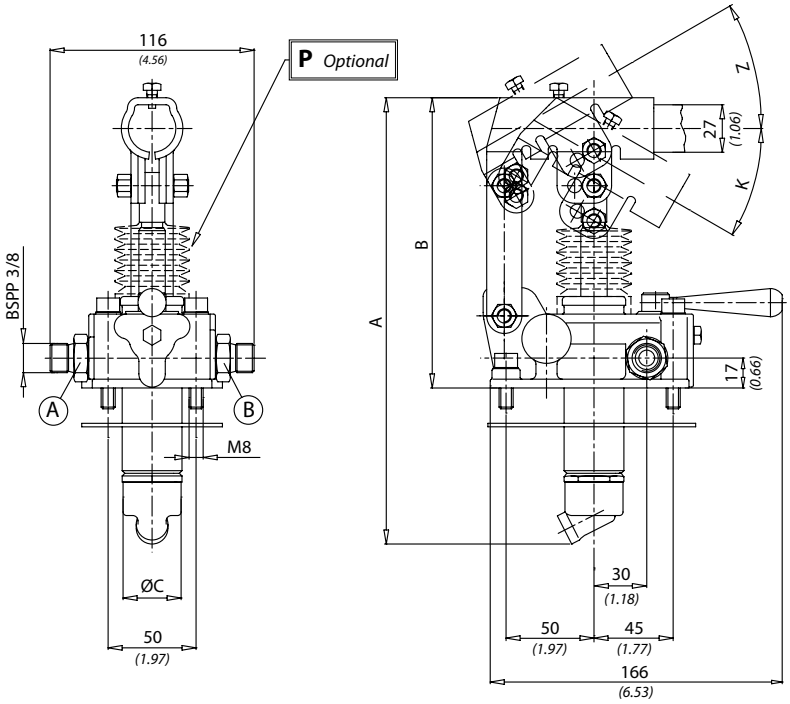
Dati tecnici *Technical data*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*
Classe di contaminazione *Filtration*	ISO code 16/13 *SAE class 4 or better*
Temperatura fluido *Fluid temperature*	-20°C +80°C *-4°F + 176°F*
Temperatura ambiente *Ambient temperature*	-20°C +50°C *-4°F +122°F*

Caratteristiche tecniche *Technical performances*		
Codice *Code*	**Pressione Max** *Max pressure* bar/*PSI*	Peso approssimativo *Approx weight* Kg / *lb*
PMI6	**500** *(7250)*	**4,4** *(9.7)*
PMI12	**380** *(5500)*	
PMI25	**350** *(5000)*	
PMI45	**280** *(4000)*	

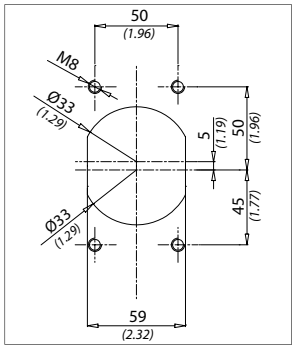




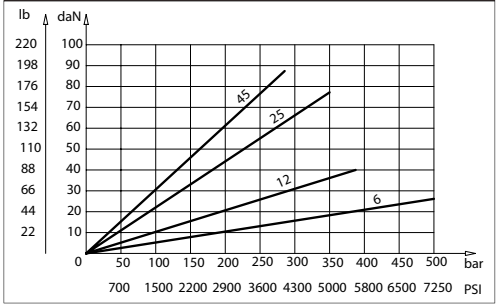




mm
(Inches)



Sforzo esercitato all'estremità della leva
Effort operating on the end of the lever

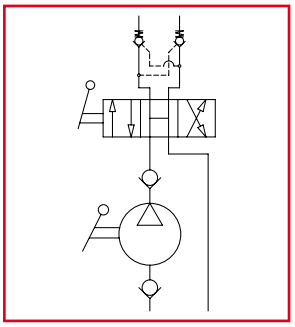


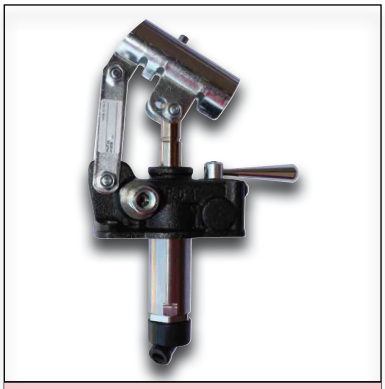
Y	Cilindrata / *Displacement*	K	Z	A	B	C
6	**6 cm^3** *(0.36 in^3)*	**31°**	**26°**	**253** *(9.96)*	**166** *(6.53)*	**34** *(1.33)*
12	**12 cm^3** *(0.73 in^3)*	**31°**	**35°**			
25	**25 cm^3** *(1.52 in^3)*	**30°**	**25°**	**273** *(10.74)*	**172** *(6.77)*	
45	**45 cm^3** *(2.75 in^3)*	**33°**	**35°**	**283** *(11.14)*		**40** *(1.57)*

Codice ordinazione *Ordering code*	
PMI - Y - X	
X	Optional
P	**Soffietto** *With rubber protection*
L	**Con leva di scarico** *With unloading lever*
RV	**Con valvola di massima pressione su A e B** *With relief valve on A and B*
LRV	**Con leva di scarico e valvola di massima pressione** *With unloading lever and relief valve*

PMT

Pompa a mano doppio effetto con valvole di blocco
Double acting hand pump with pilot check valves

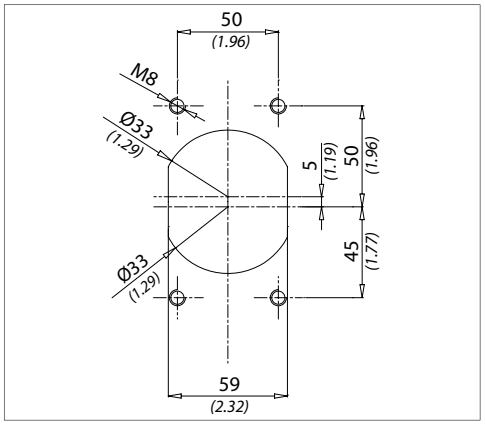


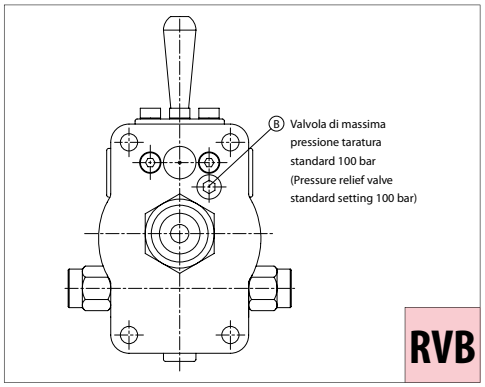


La pompa viene fornita con guarnizione sagomata + viti di fissaggio + leva di azionamento L=600 mm
The pump is supplied with shaped seal, fixing screws and acting lever 23 in. long

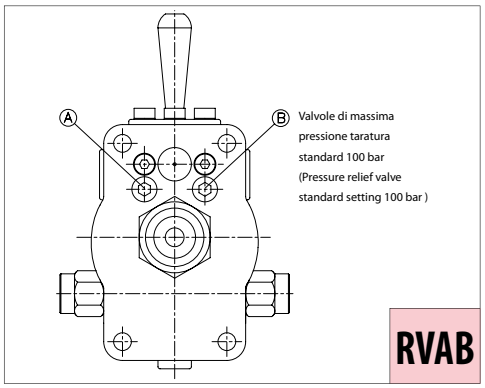
Dati tecnici *Technical data*	
Viscosità fluido *Fluid viscosity*	10-500 mm²/s *45 to 2000 ssu (6 to 420 cSt)*
Classe di contaminazione *Filtration*	ISO code 16/13 *SAE class 4 or better*
Temperatura fluido *Fluid temperature*	-20°C +80°C *-4°F + 176°F*
Temperatura ambiente *Ambient temperature*	-20°C +50°C *-4°F +122°F*

Caratteristiche tecniche *Technical performances*		
Codice *Code*	Pressione Max *Max pressure* bar/*PSI*	Peso approssimativo *Approx weight* Kg / *lb*
PMT6	**500** *(7250)*	**4,4** *(9.7)*
PMT12	**380** *(5500)*	
PMT25	**350** *(5000)*	
PMT45	**280** *(4000)*	

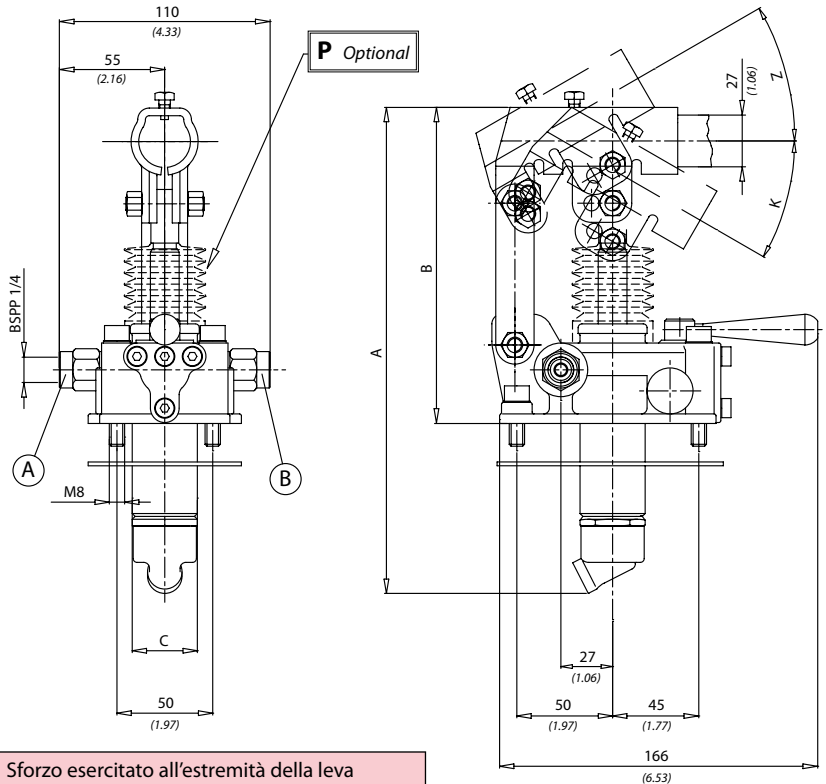




RVB

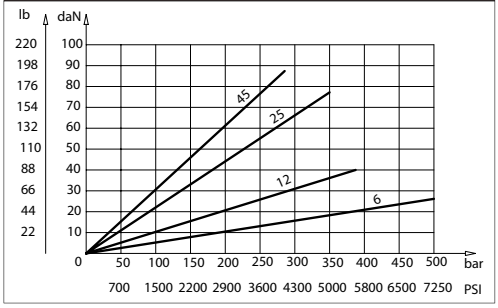


RVAB



mm / (Inches)

Sforzo esercitato all'estremità della leva
Effort operating on the end of the lever

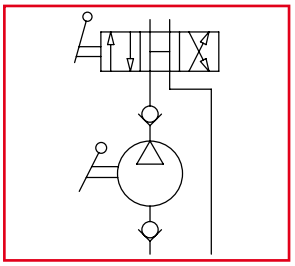


Y	Cilindrata / *Displacement*	K	Z	A	B	C
6	**6 cm³** *(0.36 in³)*	**31°**	**26°**	**253** *(9.96)*	**166** *(6.53)*	**34** *(1.33)*
12	**12 cm³** *(0.73 in³)*	**31°**	**35°**			
25	**25 cm³** *(1.52 in³)*	**30°**	**25°**	**273** *(10.74)*	**172** *(6.77)*	
45	**45 cm³** *(2.75 in³)*	**33°**	**35°**	**283** *(11.14)*		**40** *(1.57)*

Codice ordinazione *Ordering code*	
PMT - Y - X	
X	Optional
P	**Soffietto** *With rubber protection*
RVAB	**Con valvola di massima pressione su A e B** *With relief valve on A and B*
RVB	**Con valvola di massima pressione su B** *With relief valve on B*

PMA

Pompa a mano doppio effetto centro aperto
Double acting hand pump open center



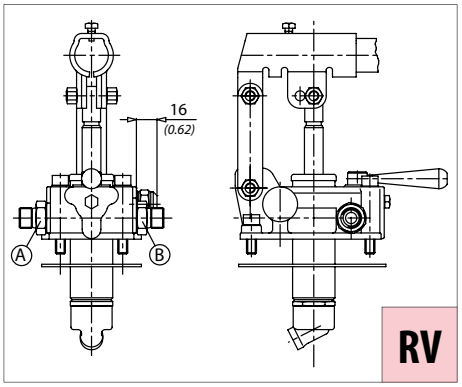
La pompa viene fornita con guarnizione sagomata + viti di fissaggio + leva di azionamento L=600 mm
The pump is supplied with shaped seal, fixing screws and acting lever 23 in. long

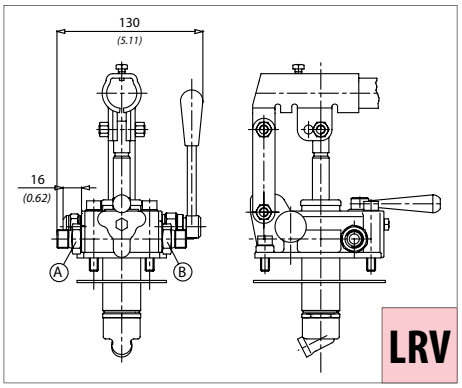
Dati tecnici
Technical data

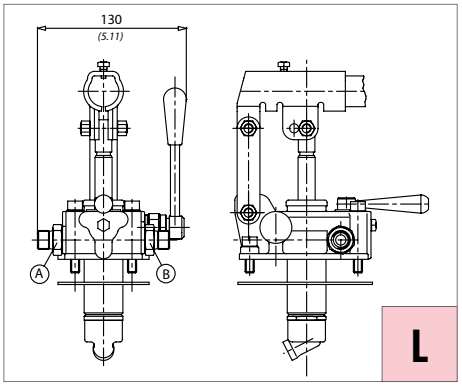
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*
Classe di contaminazione *Filtration*	ISO code 16/13 *SAE class 4 or better*
Temperatura fluido *Fluid temperature*	-20°C +80°C *-4°F + 176°F*
Temperatura ambiente *Ambient temperature*	-20°C +50°C *-4°F +122°F*

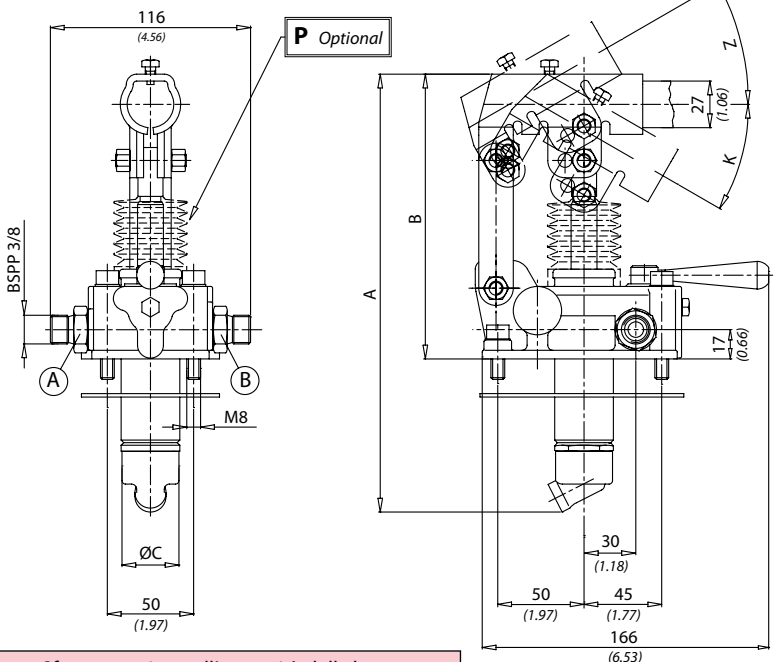
Caratteristiche tecniche
Technical performances

Codice *Code*	Pressione Max *Max pressure* bar/*PSI*	Peso approssimativo *Approx weight* Kg / *lb*
PMA6	**500** *(7250)*	**4,4** *(9.7)*
PMA12	**380** *(5500)*	
PMA25	**350***(5000)*	
PMA45	**280** *(4000)*	

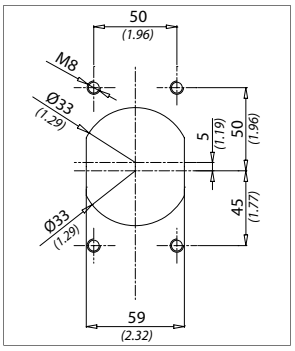




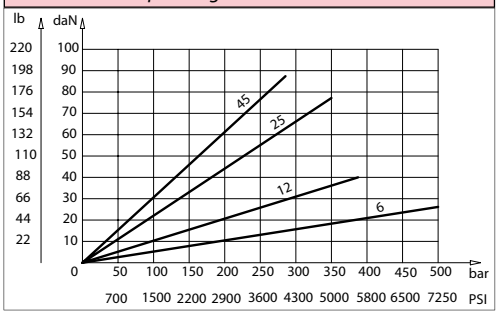




mm
(Inches)



Sforzo esercitato all'estremità della leva
Effort operating on the end of the lever



Y	Cilindrata / *Displacement*	K	Z	A	B	C
6	**6 cm^3** *(0.36 in^3)*	**31°**	**26°**	**253** *(9.96)*	**166** *(6.53)*	**34** *(1.33)*
12	**12 cm^3** *(0.73 in^3)*	**31°**	**35°**			
25	**25 cm^3** *(1.52 in^3)*	**30°**	**25°**	**273** *(10.74)*	**172** *(6.77)*	
45	**45 cm^3** *(2.75 in^3)*	**33°**	**35°**	**283** *(11.14)*		**40** *(1.57)*

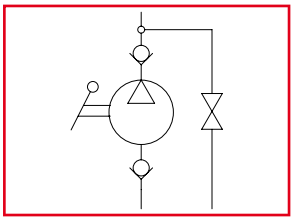
Codice ordinazione
Ordering code

PMA - Y - X

X	Optional
P	**Soffietto** *With rubber protection*
L	**Con leva di scarico** *With unloading lever*
RV	**Con valvola di massima pressione su A e B** *With relief valve on A and B*
LRV	**Con leva di scarico e valvola di massima pressione** *With unloading lever and relief valve*

PME1

Pompa a mano semplice effetto
Single acting hand pump



La pompa viene fornita con guarnizione sagomata + viti di fissaggio + leva di azionamento L=500 mm
The pump is supplied with shaped seal, fixing screws and acting lever 19 in. long
La mandata la si ottiene solamente azionando la leva verso il basso
Oil flow lever action downwards only

Dati tecnici
Technical data

Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*
Classe di contaminazione *Filtration*	ISO code 16/13 *SAE class 4 or better*
Temperatura fluido *Fluid temperature*	-20°C +80°C *-4°F + 176°F*
Temperatura ambiente *Ambient temperature*	-20°C +50°C *-4°F +122°F*

Caratteristiche tecniche
Technical performances

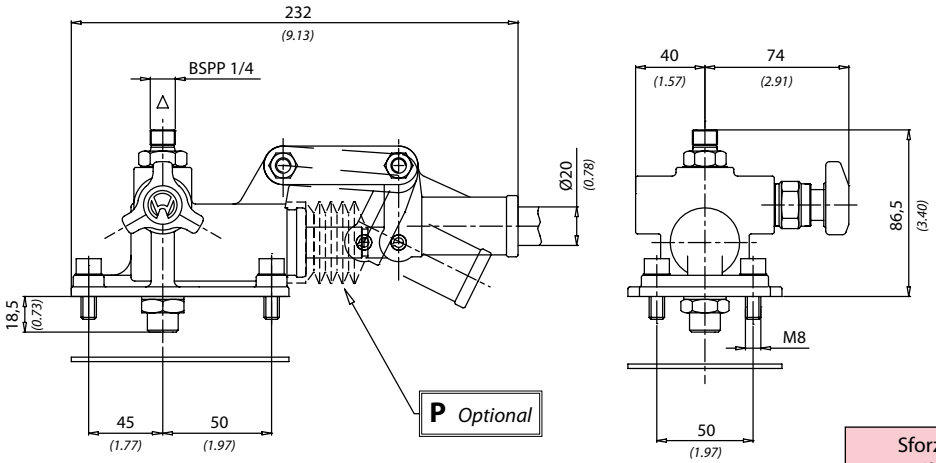
Codice *Code*	Pressione Max *Max pressure* bar/*PSI*	Peso approssimativo *Approx weight* Kg / *lb*
PME18	**380** *(5500)*	**4,1** *(9)*
PME115	**350** *(5000)*	

Codice ordinazione
Ordering code

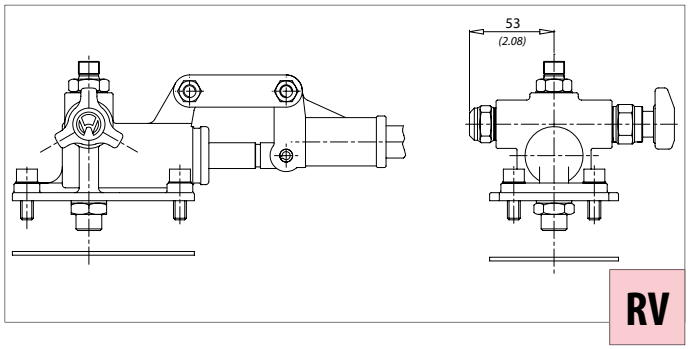
PME1 - Y - X

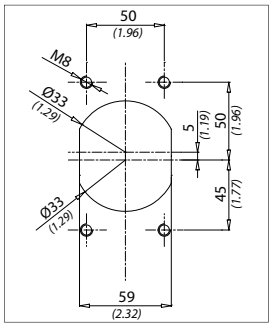
X	Optional
P	**Soffietto** *With rubber protection*
WRV	**Senza rubinetto di scarico con valvola di massima** *Without unloading valve with relief valve*
W	**Senza rubinetto di scarico** *Without unloading valve*
RV	**Con valvola di massima pressione** *With relief valve*

Y	Cilindrata / *Displacement*
8	**8 cm^3** *(0.50 in^3)*
15	**15 cm^3** *(0.90 in^3)*

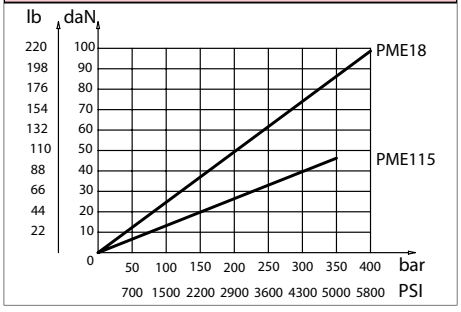


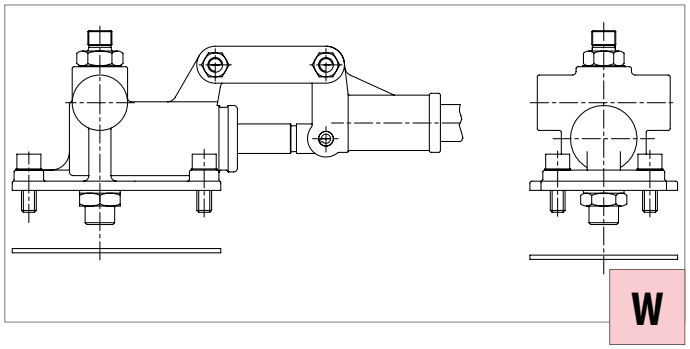
mm
(Inches)

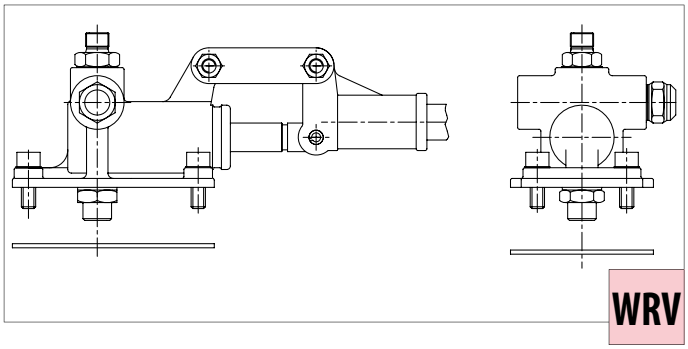




Sforzo esercitato all'estremità della leva
Effort operating on the end of the lever

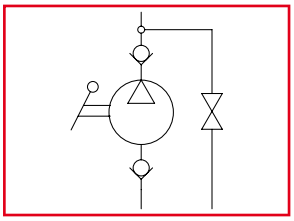


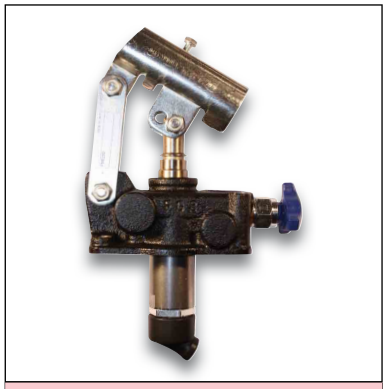




PME2

Pompa a mano semplice effetto
Single acting hand pump

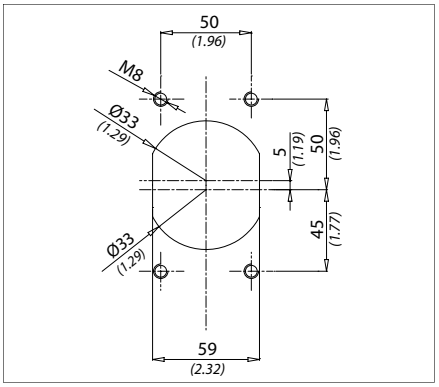




La pompa viene fornita con guarnizione sagomata + viti di fissaggio + leva di azionamento L=500 mm
The pump is supplied with shaped seal, fixing screws and acting lever 19 in. long
La mandata la si ottiene solamente azionando la leva verso il basso
Oil flow lever action downwards only

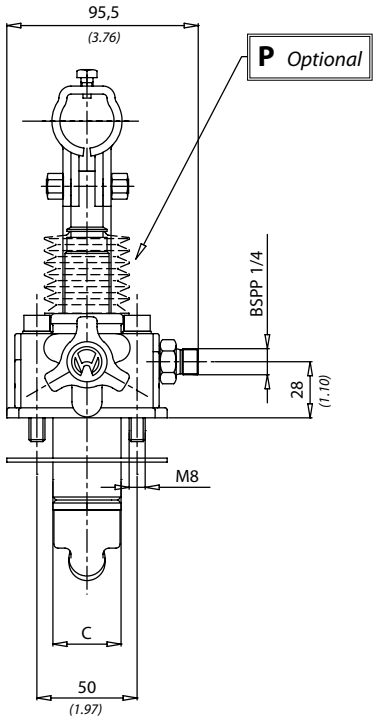
Dati tecnici
Technical data

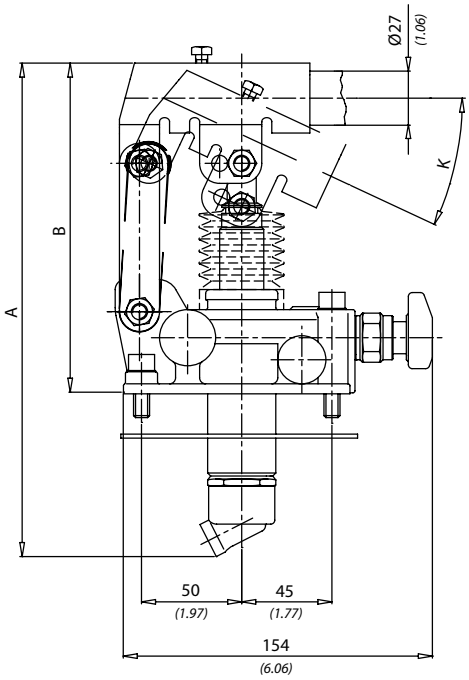
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*
Classe di contaminazione *Filtration*	ISO code 16/13 *SAE class 4 or better*
Temperatura fluido *Fluid temperature*	-20°C +80°C *-4°F + 176°F*
Temperatura ambiente *Ambient temperature*	-20°C +50°C *-4°F +122°F*



Caratteristiche tecniche
Technical performances

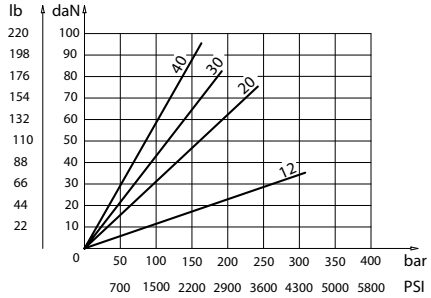
Codice *Code*	Pressione Max *Max pressure* bar/PSI	Peso approssimativo *Approx weight* Kg / lb	Cilindrata *Displacement* cm^3 / in^3
PME220	**380** *(5500)*	**4,2** *(9.2)*	**20** *(1.22)*
PME230	**350** *(5000)*		**30** *(1.83)*
PME240	**280** *(4000)*		**40** *(2.44)*





mm
(Inches)

Sforzo esercitato all'estremità della leva
Effort operating on the end of the lever



Y	Cilindrata / *Displacement*	K	A	B	C
20	**20 cm^3** *(1.22 in^3)*	**29°**	**249** *(9.80)*	**167** *(6.57)*	**34** *(1.33)*
30	**30 cm^3** *(1.83 in^3)*	**26°**	**252** *(9.92)*		
40	**40 cm^3** *(2.44 in^3)*				**40** *(1.57)*

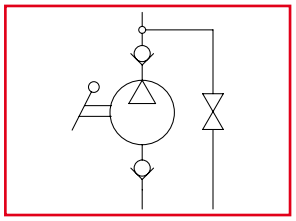
Codice ordinazione
Ordering code

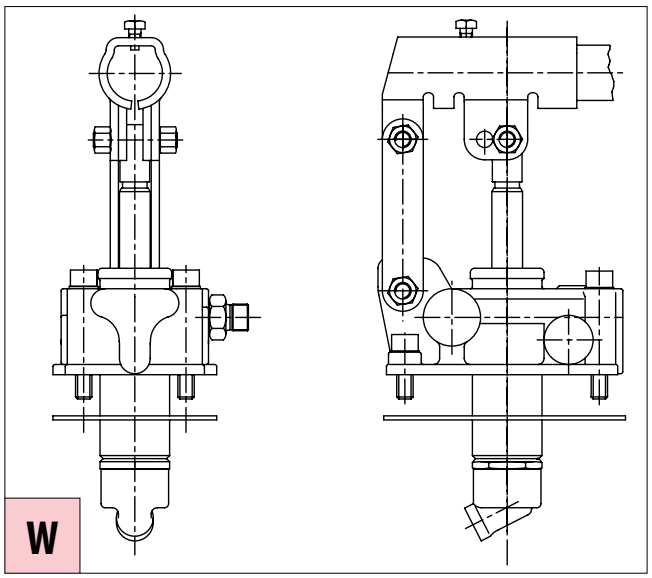
PME2 - Y - X

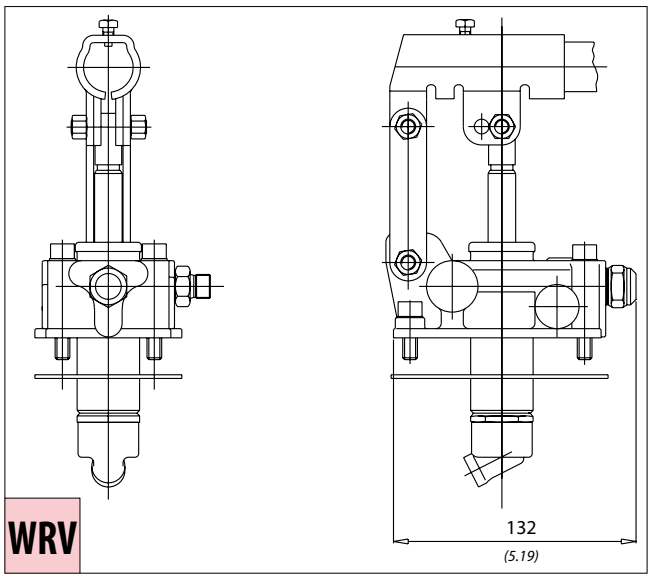
X	Optional
P	**Soffietto** *With rubber protection*
WRV	**Senza rubinetto di scarico con valvola di massima** *Without unloading valve with relief valve*
W	**Senza rubinetto di scarico** *Without unloading valve*
L	**Con leva di scarico** *With unloading lever*
RV	**Con valvola di massima press.** *With relief valve*
LRV	**Con leva di scarico e valvola di massima pressione** *With unloading lever and relief valve*

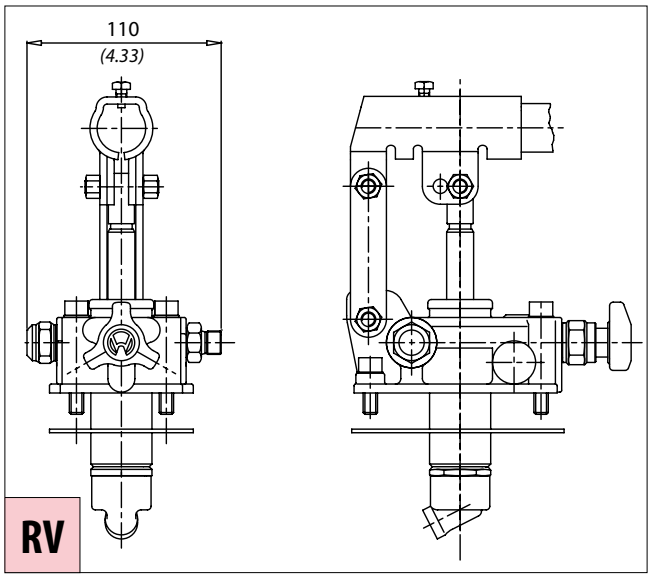
PME2

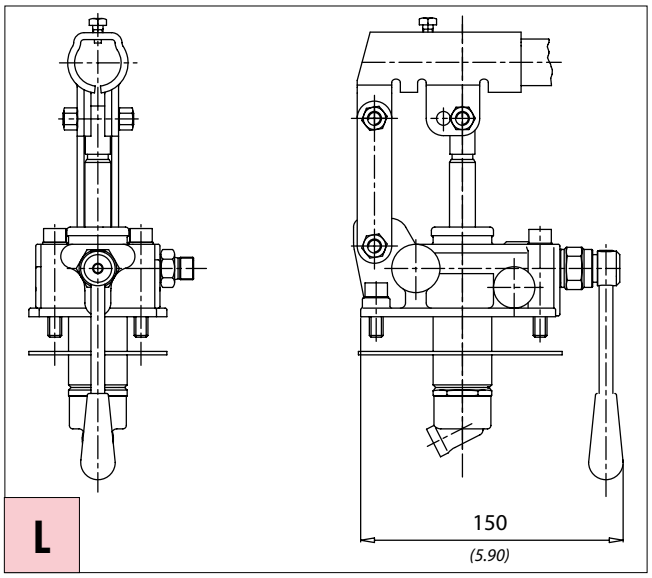
Pompa a mano semplice effetto
Single acting hand pump



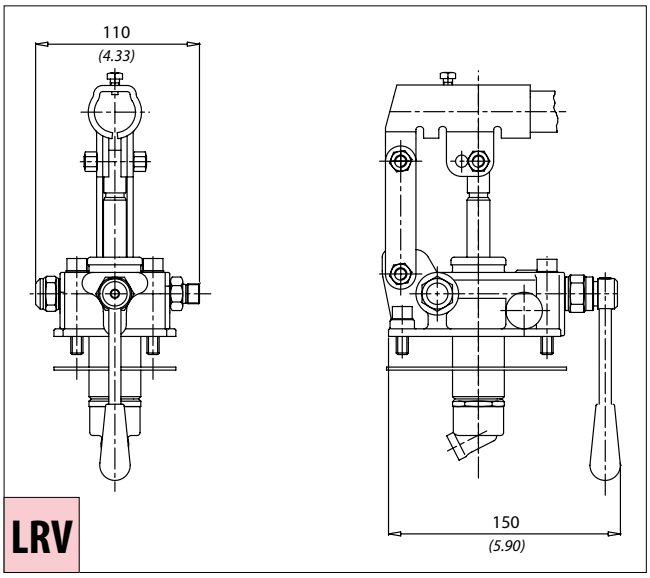






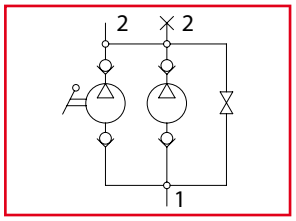


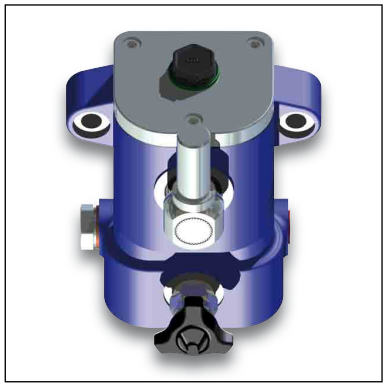
mm
(Inches)



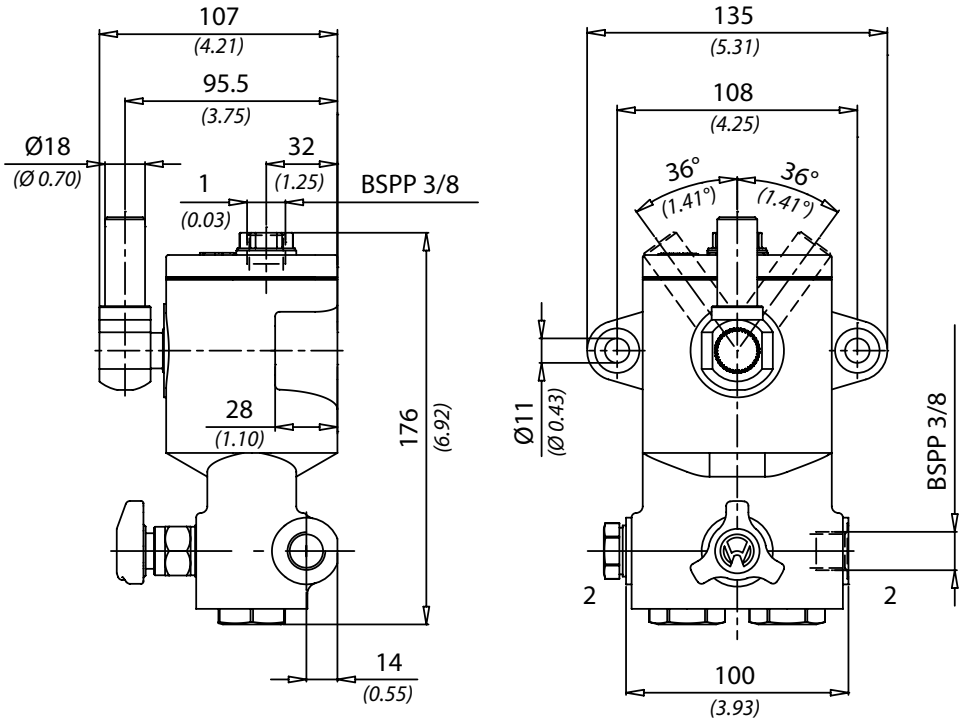
PMD

Pompa a mano semplice effetto doppio pompante
Single acting hand pump with double cylinder



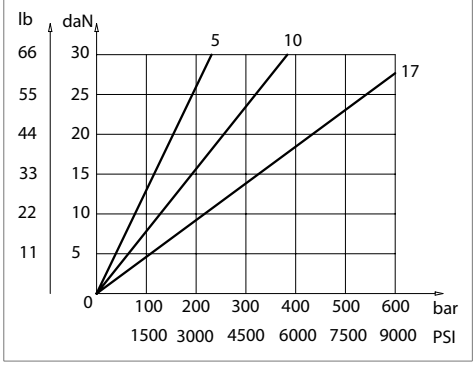


Dati tecnici *Technical data*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*
Classe di contaminazione *Filtration*	ISO code 16/13 *SAE class 4 or better*
Temperatura fluido *Fluid temperature*	-20°C +80°C *-4°F + 176°F*
Temperatura ambiente *Ambient temperature*	-20°C +50°C *-4°F +122°F*



mm
(Inches)

Sforzo esercitato all'estremità della leva
Effort operating on the end of the lever

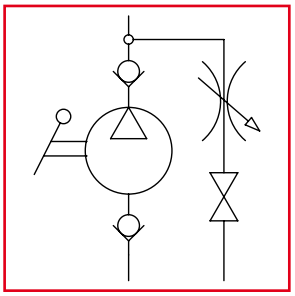


Caratteristiche tecniche *Technical performances*			
Codice *Code*	**Pressione Max** ***Max pressure*** **bar/*PSI***	Peso approssimativo *Approx weight* Kg / *lb*	Cilindrata *Displacement* cm^3 / *in3*
PMD5	**500** *(7250)*	**4.2** *(9.2)*	**5** *(0.30)*
PMD10	**250** *(3600)*		**10** *(0.61)*
PMD17	**150** *(2100)*		**17** *(1.03)*

Codice ordinazione *Ordering code*	
PMD - Y - X	
Y	Cilindrata / *Displacement*
5	**5 cm^3** *(0.30 in^3)*
10	**10 cm^3** *(0.61 in^3)*
17	**17 cm^3** *(1.03 in^3)*
X	Optional
W	**Senza rubinetto di scarico** *Without unloading valve*

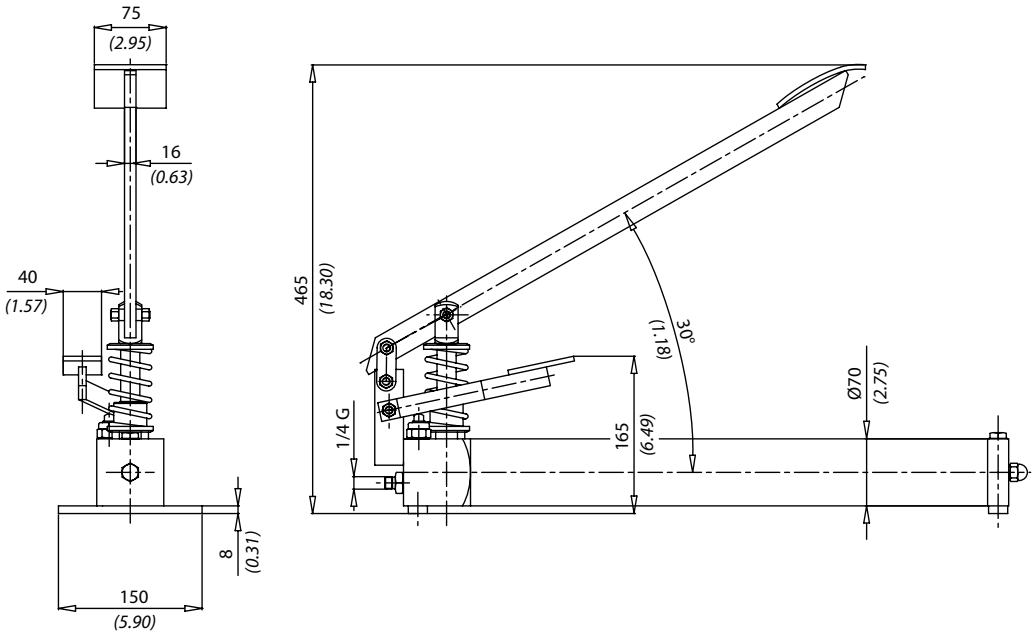
PME3

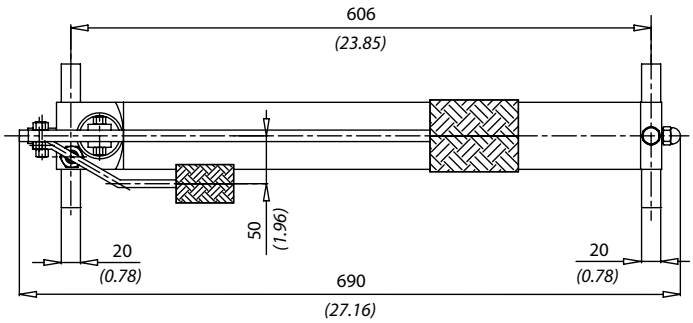
Pompa a pedale
Foot pump



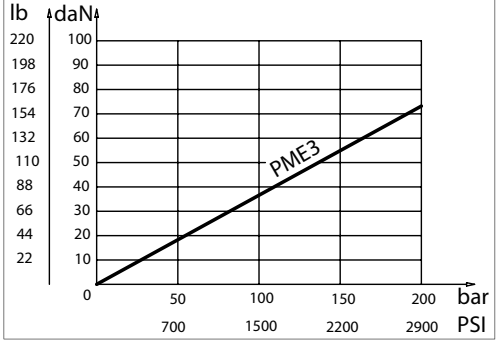
Dati tecnici
Technical data

Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*
Classe di contaminazione *Filtration*	ISO code 16/13 *SAE class 4 or better*
Temperatura fluido *Fluid temperature*	-20°C +80°C *-4°F + 176°F*
Temperatura ambiente *Ambient temperature*	-20°C +50°C *-4°F +122°F*





Sforzo esercitato all'estremità della leva
Effort operating on the end of the lever



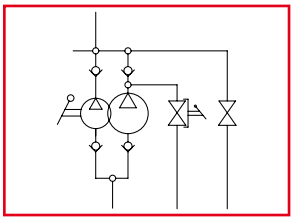
mm
(Inches)

Caratteristiche tecniche
Technical performances

Codice *Code*	**Pressione Max** ***Max pressure*** **bar/*PSI***	Peso approssimativo *Approx weight* Kg / *lb*	Cilindrata *Displacement* cm^3 / *in3*
PME3	**200** *(2900)*	**10** *(22)*	**14** *(0.85)*

PME580

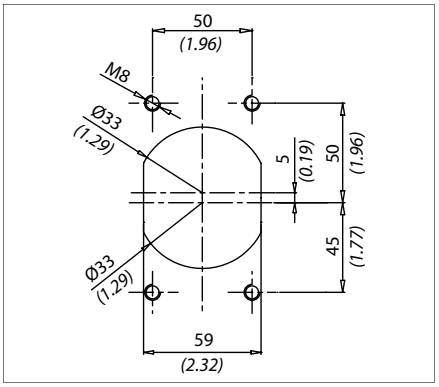
Pompa a mano 2 velocità per cilindro a semplice effetto
Two speed hand pump with single alting cylinder

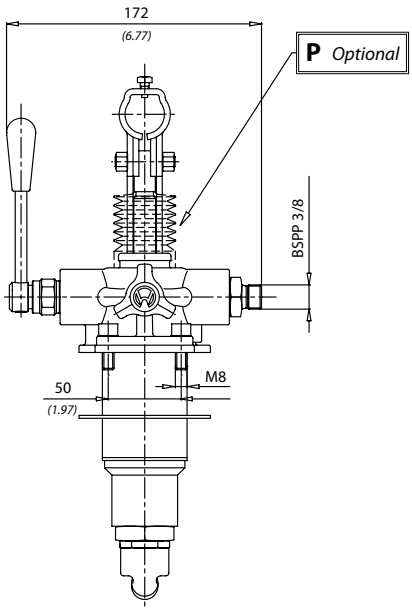


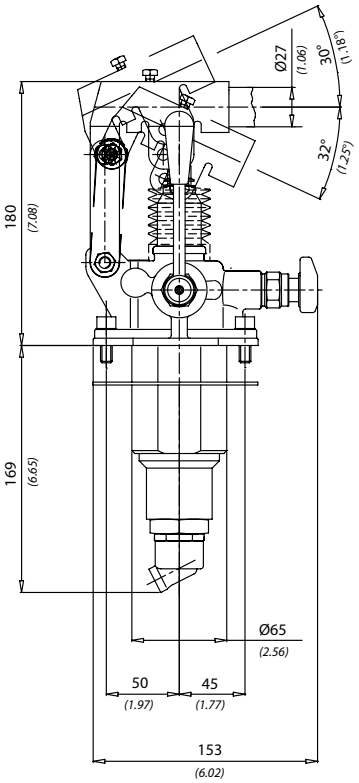
La pompa viene fornita con guarnizione sagomata + viti di fissaggio + leva di azionamento L=600 mm
The pump is supplied with shaped seal, fixing screws and acting lever 23 in. long

Dati tecnici
Technical data

Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*
Classe di contaminazione *Filtration*	ISO code 16/13 *SAE class 4 or better*
Temperatura fluido *Fluid temperature*	-20°C +80°C *-4°F + 176°F*
Temperatura ambiente *Ambient temperature*	-20°C +50°C *-4°F +122°F*







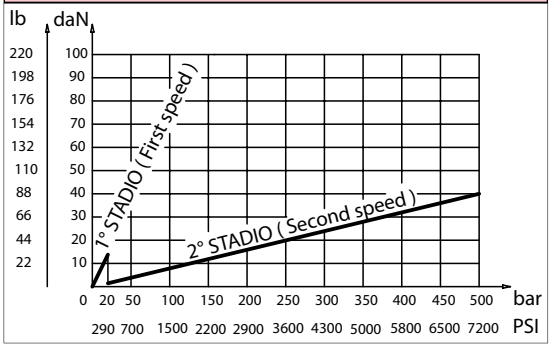
Codice ordinazione
Ordering code

PME580 - X

X	Optional
P	**Soffietto** *With rubber protection*
18	**Con predisposizione manometro** *With arrangement for gauge*
X18	**Con valvola di massima e predisposizione manometro** *With relief valve and arrangement for gauge*
CA	**Con comando automatico** *With automatic device*
CA18	**Con comando automatico e predisposizione manometro** *With automatic device and arrangement for gauge*
CARV	**Con comando automatico e valvola di massima** *With automatic device and relief valve*
CARV18	**Con comando automatico, valvola di massima e predisposizione manometro** *With automatic device, relief valve and arrangement for gauge*

mm / (Inches)

Sforzo esercitato all'estremità della leva
Effort operating on the end of the lever

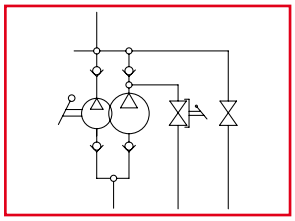


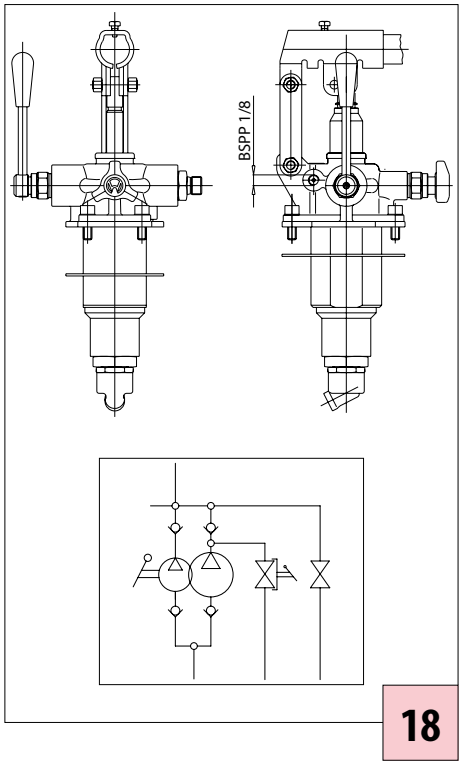
Caratteristiche tecniche
Technical performances

Codice *Code*	Pressione Max 1 stadio *Max pressure 1 stage* bar/*PSI*	Pressione Max 2 stadio *Max pressure 1 stage* bar/*PSI*	Cilindrata 1 stadio *Displacement 1 stage* cm^3 / *in3*	Cilindrata 2 stadio *Displacement 2 stage* cm^3 / *in3*	Peso approssimativo *Approx weight* Kg / *lb*
PME580	**20** *(290)*	**500** *(7250)*	**80** *(4.9)*	**5** *(0.30)*	**7,1** *(15.6)*

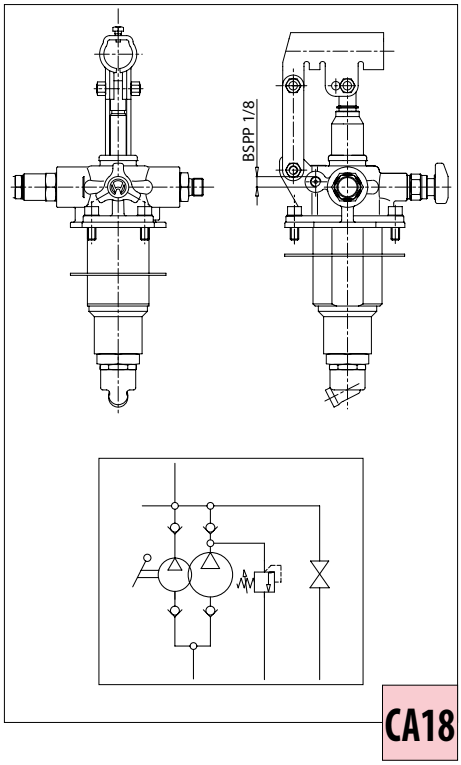
PME580

Pompa a mano 2 velocità per cilindro a semplice effetto
Two speed hand pump with single alting cylinder

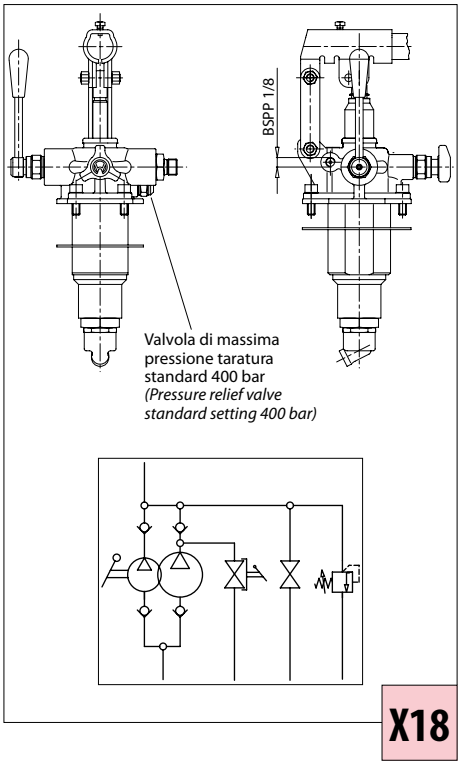




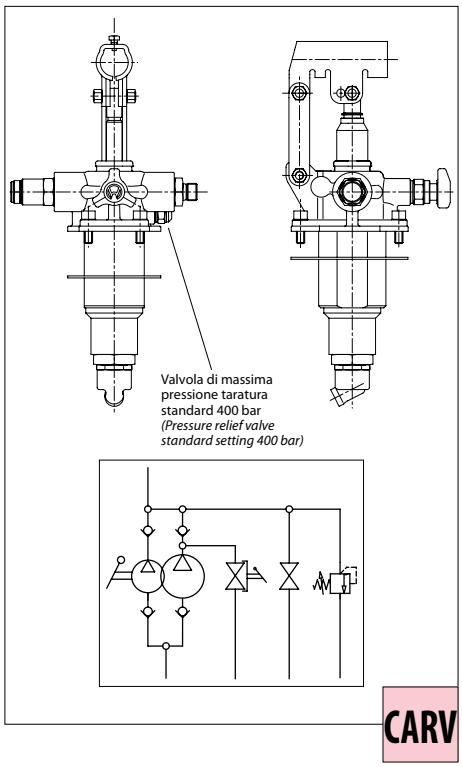
18



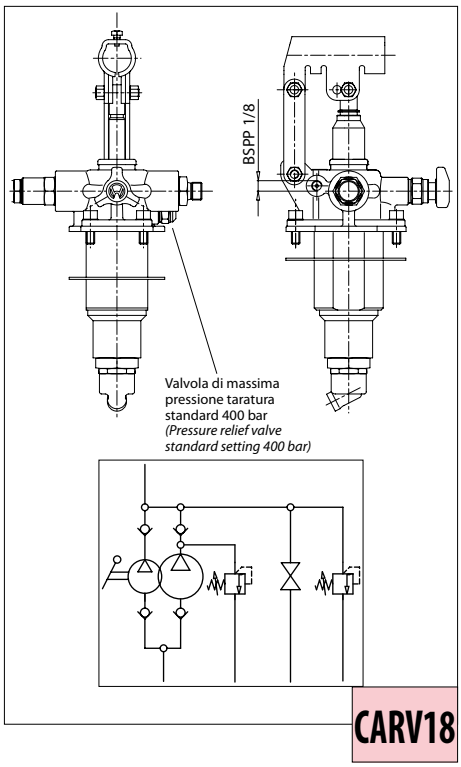
CA18



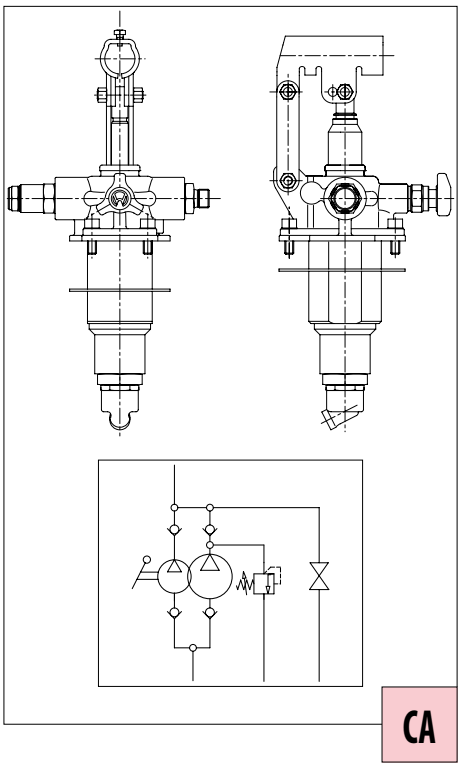
X18



CARV



CARV18



CA

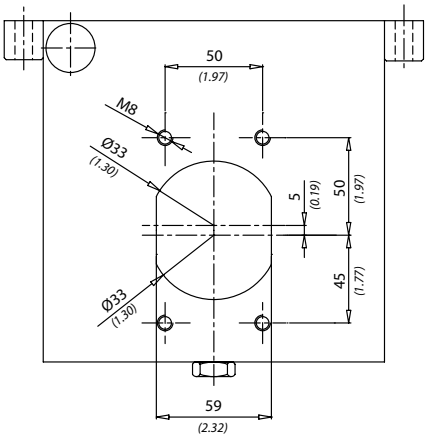
TNK

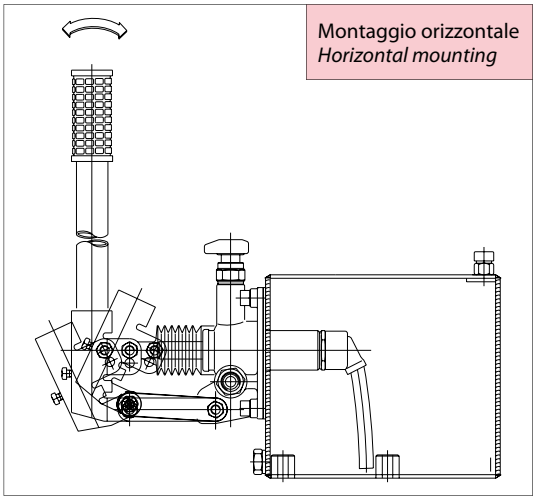
Serbatoi in acciaio
Steel reservoir

Serbatoio in acciaio
Steel reservoir
Verniciatura RAL9005 antiolio-nero
RAL9005 black oil proof painting
Il serbatoio è comprensivo di tappo sfiato e tappo scarico
The reservoir is including the breather plug

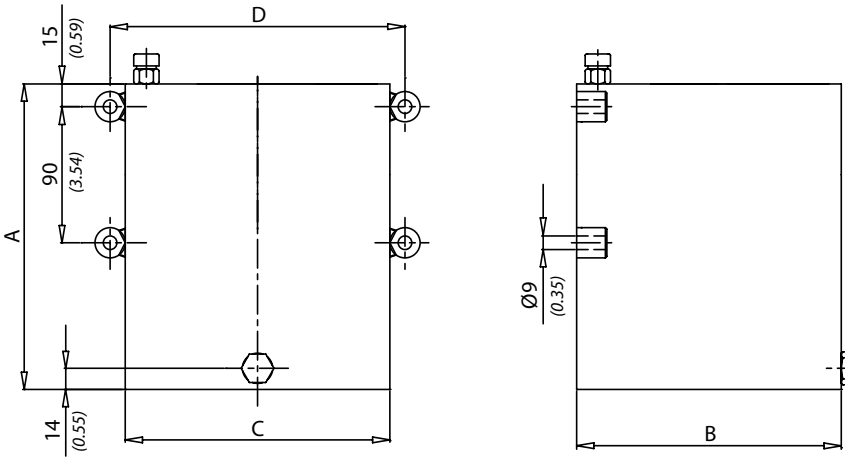
Dati tecnici
Technical data

Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*
Classe di contaminazione *Filtration*	ISO code 16/13 *SAE class 4 or better*
Temperatura fluido *Fluid temperature*	-20°C +80°C *-4°F + 176°F*
Temperatura ambiente *Ambient temperature*	-20°C +50°C *-4°F +122°F*

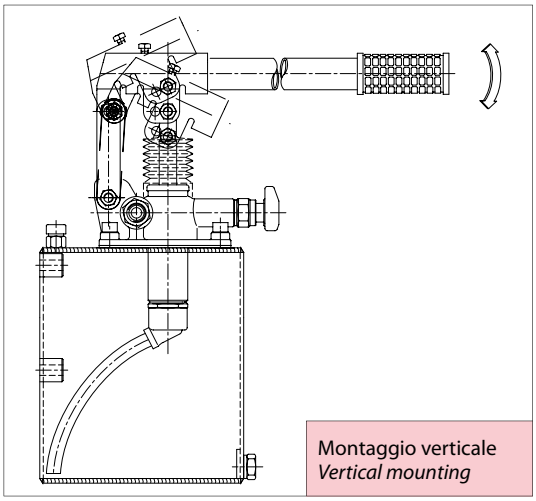




Montaggio orizzontale
Horizontal mounting



mm
(Inches)



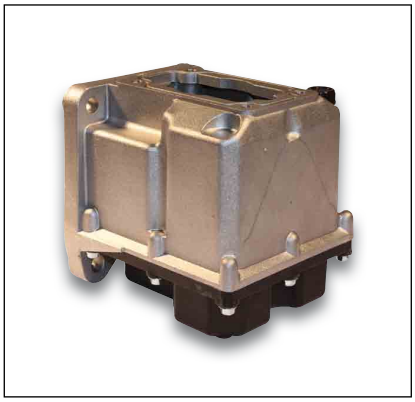
Montaggio verticale
Vertical mounting

Caratteristiche tecniche
Technical performances

Codice *Code*	Capacità *Capacity*	A	B	C	D	Peso approssimativo *Approx weight* Kg / lb
17900001	**1 Lt. - 61 in.3**	**120** *(4.72)*	**150** *(5.90)*	**100** *(4.72)*	**120** *(4.72)*	**2,2** *(5)*
17900002	**2 Lt. - 122 in.3**	**185** *(7.28)*				**2,7** *(6)*
17900003	**3 Lt. - 183 in.3**	**255** *(10.03)*				**3,7** *(8)*
17900006	**5 Lt. - 305 in.3**	**200** *(7.87)*	**175** *(6.88)*		**195** *(7.67)*	**5,3** *(11.5)*
17900004	**7 Lt. - 427 in.3**	**275** *(10.82)*				**6,6** *(14.5)*
17900005	**10 Lt. - 610 in.3**	**380** *(14.96)*				**8,3** *(18)*

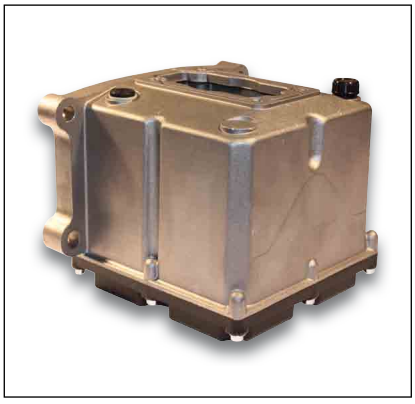
TNA

Serbatoi in alluminio
Aluminium reservoir

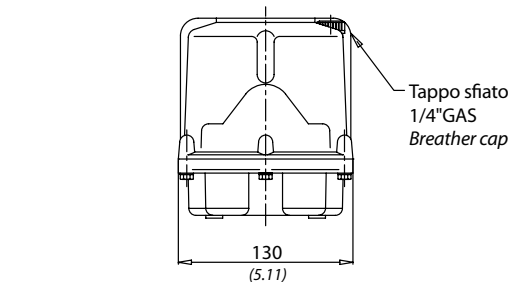


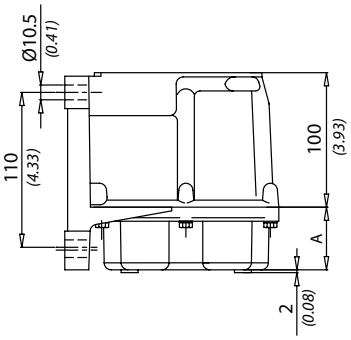
Caratteristiche tecniche *Technical performances*		
Codice *Code*	Capacità *Capacity* lt / *lb*	Peso approssimativo *Approx weight* Kg / *lb*
TNA1	**1**	**1,5** *(3.3)*
TNA1,5	**1,5**	**1,8** *(4)*

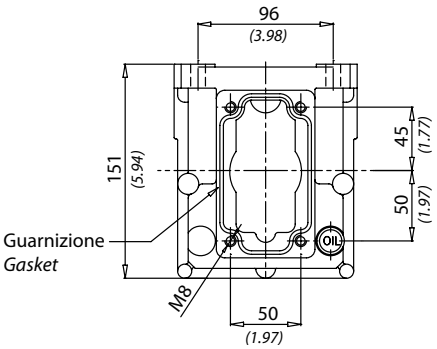
Dati tecnici *Technical data*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*
Classe di contaminazione *Filtration*	ISO code 16/13 *SAE class 4 or better*
Temperatura fluido *Fluid temperature*	-20°C +80°C *-4°F + 176°F*
Temperatura ambiente *Ambient temperature*	-20°C +50°C *-4°F +122°F*



Caratteristiche tecniche *Technical performances*		
Codice *Code*	Capacità *Capacity* lt / *lb*	Peso approssimativo *Approx weight* Kg / *lb*
TNA2	**2**	**1,5** *(3.3)*
TNA3	**3**	**1,6** *(3.5)*
TNA5	**5**	**1,8** *(4)*



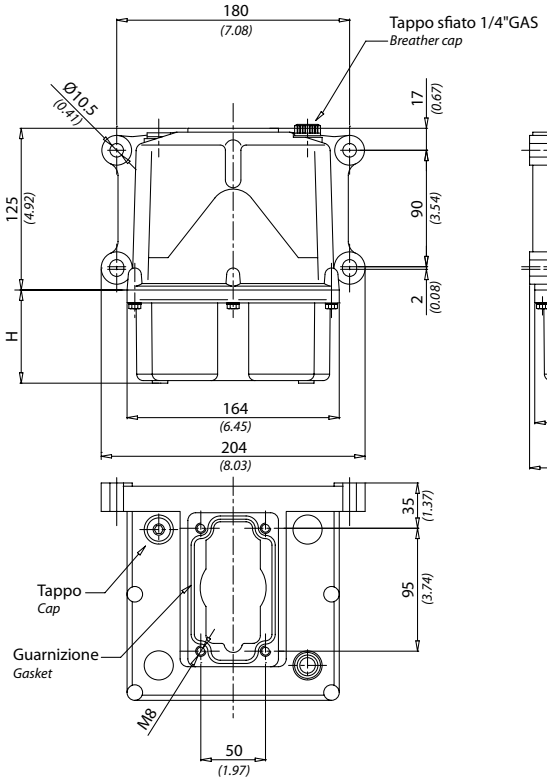


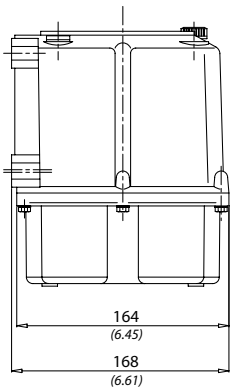


mm
(Inches)

Il serbatoio comprensivo di guarnizione, tappo sfiato e tappo scarico
The reservoir is including the gasket and breather plug

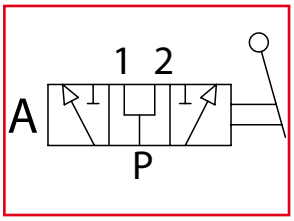
Codice ordinazione *Ordering code*			
TNA - X			
X	Capacità / *Capacity*	A	H
1	**1 Lt. - 61 in.^{3}**	**40** *(1.57)*	
1,5	**1,5 Lt. - 90 in.^{3}**	**160** *(6.30)*	
2	**2 Lt. - 122 in.^{3}**		**25** *(0.98)*
3	**3 Lt. - 183 in.^{3}**		**70** *(2.75)*
5	**5 Lt. - 305 in.^{3}**		**180** *(7.08)*

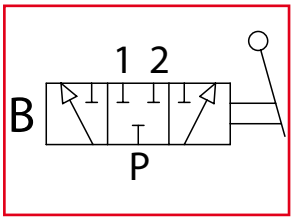




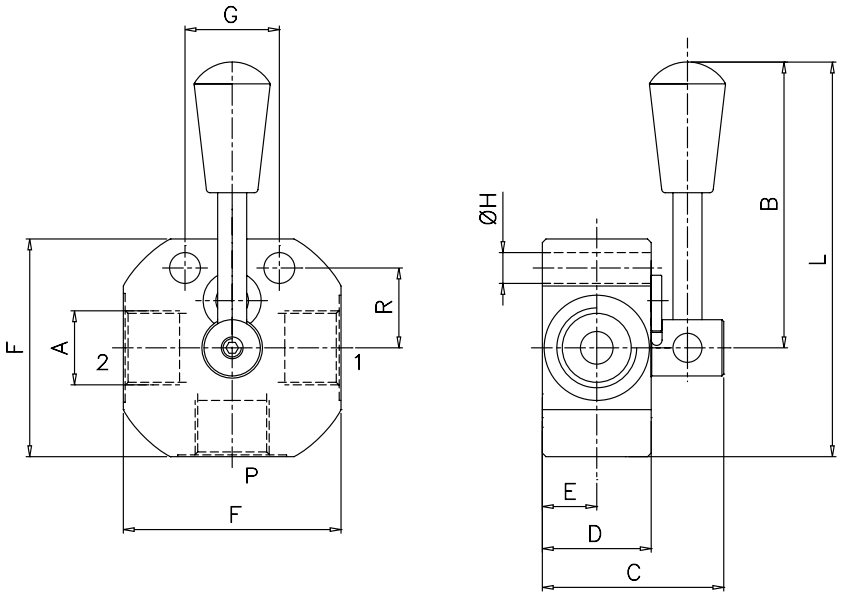
DDFA3

Deviatori di flusso a 3 vie alta pressione
High pressure 3 ways flow diverters





Dati tecnici *Technical data*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*
Classe di contaminazione *Filtration*	ISO code 16/13 *SAE class 4 or better*
Temperatura fluido *Fluid temperature*	-20°C +80°C *-4°F + 176°F*
Temperatura ambiente *Ambient temperature*	-20°C +50°C *-4°F +122°F*



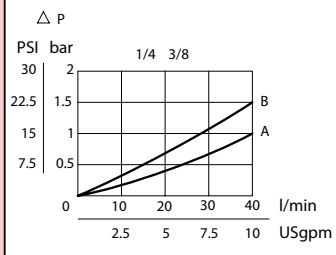
mm
(Inches)

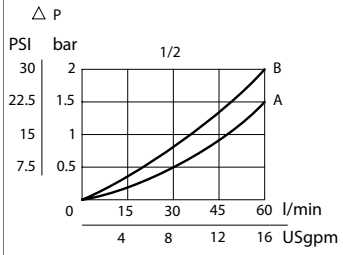
Codice ordinazione
Ordering code

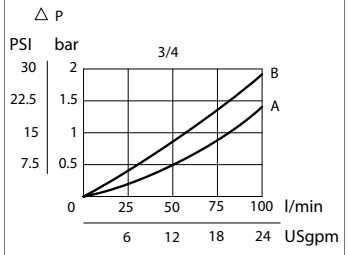
DDFA3 - X - Y - S

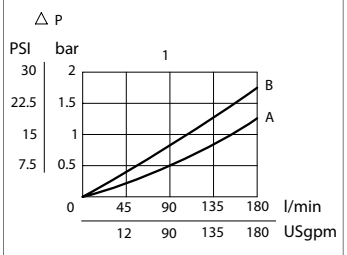
X	Dimensione / *Size*	Y	Schema - *Circuit*
140	BSPP 1/4	A	**Centro aperto** *Open centre*
380	BSPP 3/8		
120	BSPP 1/2	B	**Centro chiuso** *Closed centre*
340	BSPP 3/4		
100	BSPP 1		

Perdite di carico
Pressure drops







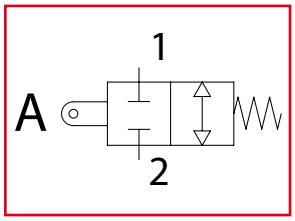


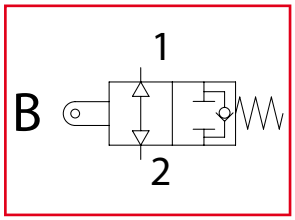
Caratteristiche tecniche
Technical performances

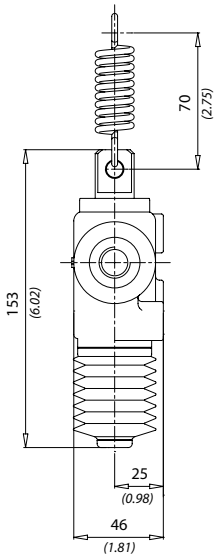
Codice *Code*	A	Portata Max *Max flow* l/min - *USgpm*	Pressione Max *Max pressure* bar/*PSI*	B	C	D	E	F	G	H	L	R	Peso approssimativo *Approx weight* Kg / *lb*
DDFA3140	**BSPP 1/4**	**40** *(10)*	**500** *(7250)*	**80** *(3.15)*	**50** *(1.97)*	**30** *(1.18)*	**15** *(0.59)*	**60** *(2.36)*	**26** *(1.02)*	**8,5** *(0.33)*	**110** *(4.33)*	**22** *(0.87)*	**0,7** *(1.5)*
DDFA3380	**BSPP 3/8**												
DDFA3120	**BSPP 1/2**	**60** *(15)*											
DDFA3340	**BSPP 3/4**	**100** *(25)*		**102** *(4.01)*	**67** *(2.64)*	**45** *(1.77)*	**22,5** *(0.88)*	**80** *(3.15)*	**32** *(1.26)*	**11** *(0.43)*	**142** *(4.60)*	**26** *(1.02)*	**1,9** *(4)*
DDFA3100	**BSPP 1**	**180** *(47)*						**85** *(3.47)*			**145** *(5.71)*	**31,5** *(1.24)*	

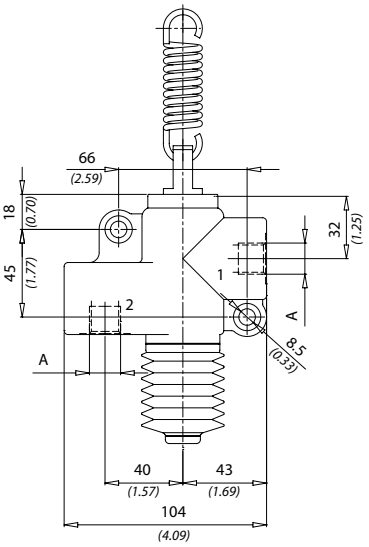
FCT

Valvole di fine corsa a trazione
Tug end-stroke valves





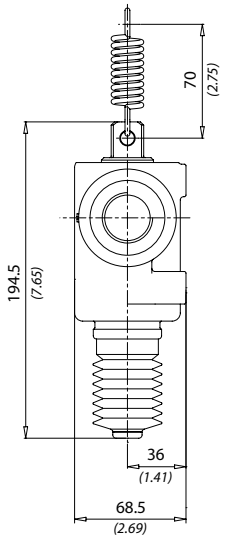


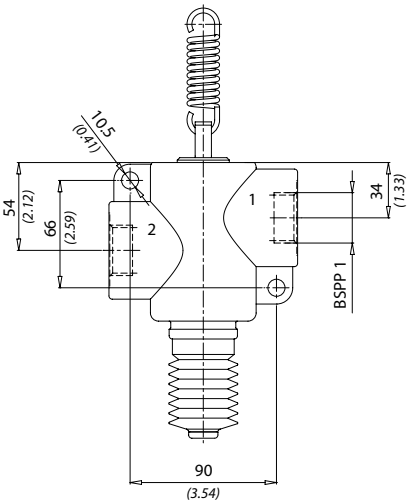


Dati tecnici *Technical data*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*
Classe di contaminazione *Filtration*	ISO code 16/13 *SAE class 4 or better*
Temperatura fluido *Fluid temperature*	-20°C +80°C *-4°F + 176°F*
Temperatura ambiente *Ambient temperature*	-20°C +50°C *-4°F +122°F*

Caratteristiche tecniche
Technical performances

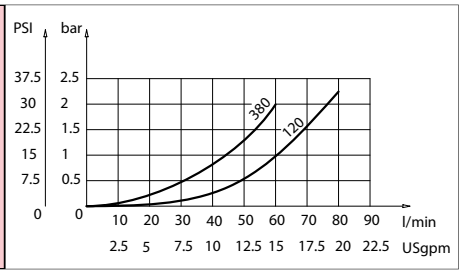
Codice *Code*	A	Portata Max *Max flow* l/min - *USgpm*	Pressione Max Max pressure bar/*PSI*	Peso approssimativo *Approx weight* Kg / *lb*
FCT380	**BSPP 3/8**	**60** *(16)*	**250** *(3600)*	**1,7** *(3.7)*
FCT120	**BSPP 1/2**	**80** *(21)*		**1,8** *(4)*
FCT340	**BSPP 3/4**	**100** *(26)*		**1,9** *(4.1)*
FCT3100	**BSPP 1**	**140** *(37)*	**200** *(2900)*	**2,5** *(5.5)*

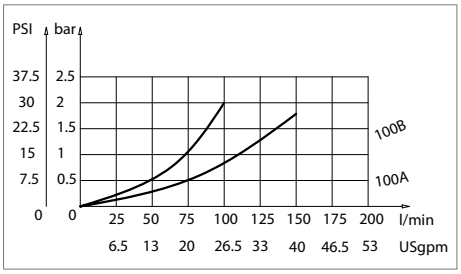




mm
(Inches)

Perdite di carico
Pressure drops





Codice ordinazione
Ordering code

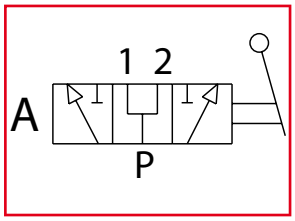
FCT - X - Y

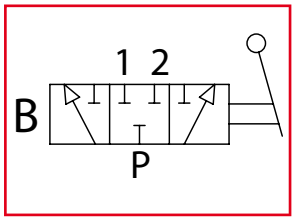
X	Dimensione / *Size*
380	**BSPP 3/8**
120	**BSPP 1/2**
340	**BSPP 3/4**
100	**BSPP 1**

Y	Schema - *Circuit*
A	**Centro chiuso** *Closed centre*
B	**Centro aperto** *Open centre*

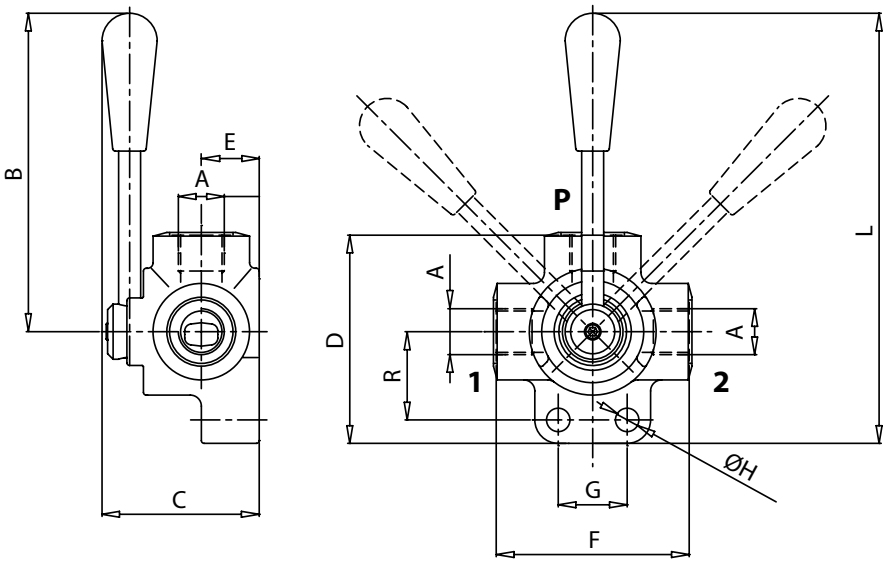
DDF3

Deviatori di flusso a 3 vie
3 ways flow diverters



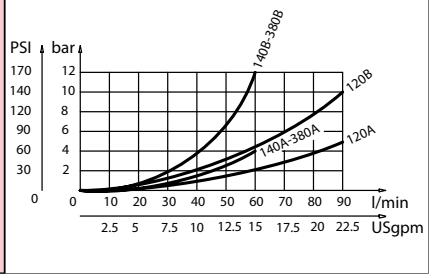


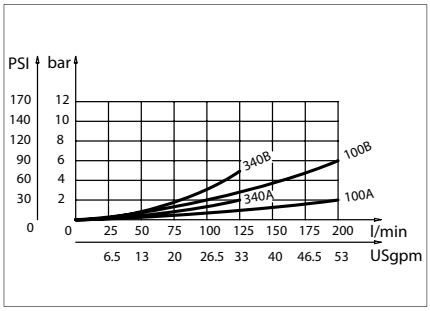
Dati tecnici *Technical data*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*
Classe di contaminazione *Filtration*	ISO code 16/13 *SAE class 4 or better*
Temperatura fluido *Fluid temperature*	-20°C +80°C *-4°F + 176°F*
Temperatura ambiente *Ambient temperature*	-20°C +50°C *-4°F +122°F*



mm
(Inches)

Perdite di carico
Pressure drops





Codice ordinazione
Ordering code

DDF3 - X - Y

X	Dimensione / *Size*
140	BSPP 1/4
380	BSPP 3/8
120	BSPP 1/2
340	BSPP 3/4
100	BSPP 1

Y	Schema - *Circuit*
A	**Centro aperto** *Open centre*
B	**Centro chiuso** *Closed centre*

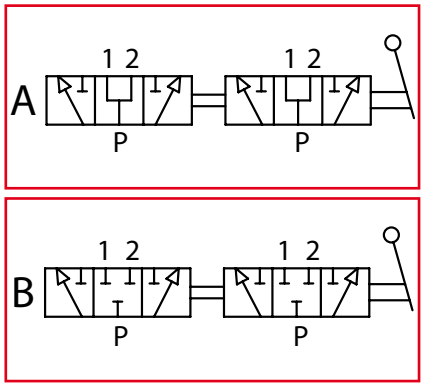
Caratteristiche tecniche
Technical performances

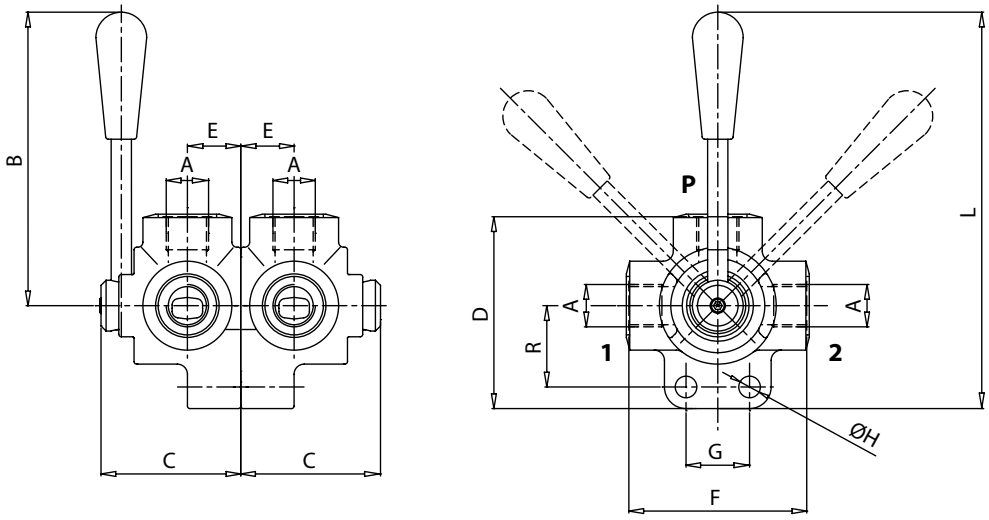
Codice *Code*	A	Portata Max *Max flow* l/min - *USgpm*	Pressione Max *Max pressure* bar/*PSI*	B	C	D	E	F	G	H	L	R	Peso approssimativo *Approx weight* Kg / *lb*
DDF3140	**BSPP 1/4**	**60** *(16)*	**350** *(5000)*	**115** *(4.53)*	**57** *(2.25)*	**75,5** *(2.97)*	**21** *(0.83)*	**70** *(2.76)*	**25** *(0.98)*	**8,5** *(0.33)*	**155,5** *(6.12)*	**32** *(1.26)*	**0,8** *(1.8)*
DDF3380	**BSPP 3/8**												
DDF3120	**BSPP 1/2**	**90** *(23)*			**63** *(2.48)*	**86** *(3.38)*	**24** *(0.95)*	**80** *(3.15)*	**32** *(0.13)*		**161** *(6.34)*	**36** *(1.42)*	**1,2** *(2.7)*
DDF3340	**BSPP 3/4**	**120** *(30)*			**67** *(2.64)*	**98,5** *(3.88)*	**26** *(1.02)*	**90** *(3.54)*		**10,5** *(0.41)*	**168,5** *(6.63)*	**42** *(1.65)*	**1,8** *(4)*
DDF3100	**BSPP 1**	**200** *(50)*	**300** *(4000)*		**77** *(3.03)*	**110** *(4.33)*	**31** *(1.22)*	**98** *(3.86)*			**176,5** *(6.95)*	**150** *(1.97)*	**2,7** *(6)*

DDF6

Deviatori di flusso a 6 vie
6 ways flow diverters

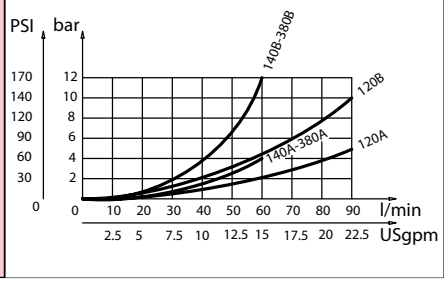
Dati tecnici *Technical data*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*
Classe di contaminazione *Filtration*	ISO code 16/13 *SAE class 4 or better*
Temperatura fluido *Fluid temperature*	-20°C +80°C *-4°F + 176°F*
Temperatura ambiente *Ambient temperature*	-20°C +50°C *-4°F +122°F*

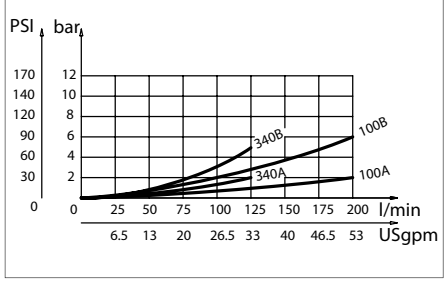




mm
(Inches)

Perdite di carico
Pressure drops





Codice ordinazione
Ordering code

DDF6 - X - Y

X	Dimensione / *Size*
140	**BSPP 1/4**
380	**BSPP 3/8**
120	**BSPP 1/2**
340	**BSPP 3/4**
100	**BSPP 1**

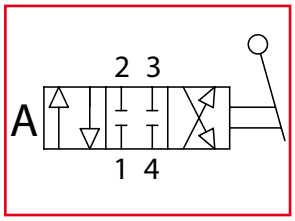
Y	Schema - *Circuit*
A	**Centro aperto** *Open centre*
B	**Centro chiuso** *Closed centre*

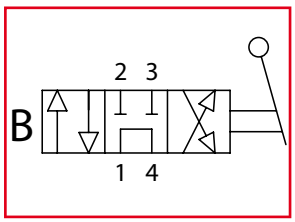
Caratteristiche tecniche
Technical performances

Codice *Code*	A	Portata Max *Max flow* l/min - *USgpm*	Pressione Max *Max pressure* bar/*PSI*	B	C	D	E	F	G	H	L	R	Peso approssimativo *Approx weight* Kg / *lb*
DDF6140	**BSPP 1/4**	**60+60** *(16+16)*	**350** *(5000)*	**115** *(4.53)*	**57** *(2.25)*	**75,5** *(2.97)*	**21** *(0.83)*	**70** *(2.76)*	**25** *(0.98)*	**8,5** *(0.33)*	**155,5** *(6.12)*	**32** *(1.26)*	**1,5** *(3.3)*
DDF6380	**BSPP 3/8**												
DDF6120	**BSPP 1/2**	**90+90** *(23+23)*			**63** *(2.48)*	**86** *(3.38)*	**24** *(0.95)*	**80** *(3.15)*	**32** *(0.13)*		**161** *(6.34)*	**36** *(1.42)*	**2,3** *(5)*
DDF6340	**BSPP 3/4**	**120+120** *(30+30)*			**67** *(2.64)*	**98,5** *(3.88)*	**26** *(1.02)*	**90** *(3.54)*		**10,5** *(0.41)*	**168,5** *(6.63)*	**42** *(1.65)*	**3,5** *(8)*
DDF6100	**BSPP 1**	**200+200** *(50+50)*	**300** *(4000)*		**77** *(3.03)*	**110** *(4.33)*	**31** *(1.22)*	**98** *(3.86)*			**176,5** *(6.95)*	**150** *(1.97)*	**5,3** *(12)*

IDF4

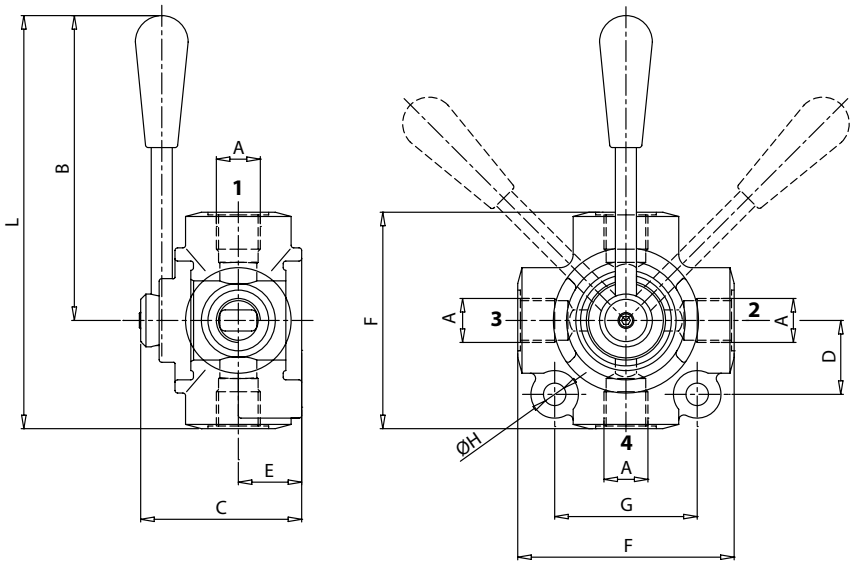
Deviatori di flusso a 4 vie
4 ways flow diverters





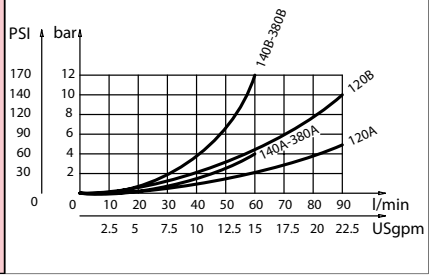
Dati tecnici
Technical data

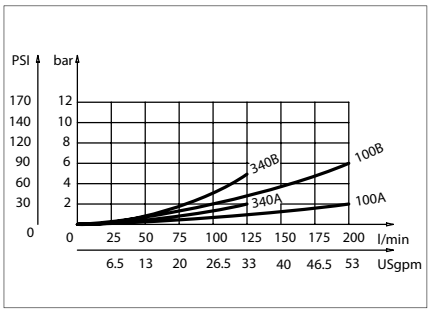
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*
Classe di contaminazione *Filtration*	ISO code 16/13 *SAE class 4 or better*
Temperatura fluido *Fluid temperature*	-20°C +80°C *-4°F + 176°F*
Temperatura ambiente *Ambient temperature*	-20°C +50°C *-4°F +122°F*



mm
(Inches)

Perdite di carico
Pressure drops





Codice ordinazione
Ordering code

IDF4 - X - Y

X	Dimensione / *Size*
140	**BSPP 1/4**
380	**BSPP 3/8**
120	**BSPP 1/2**
340	**BSPP 3/4**
100	**BSPP 1**

Y	Schema - *Circuit*
A	**Centro aperto** *Open centre*
B	**Centro chiuso** *Closed centre*

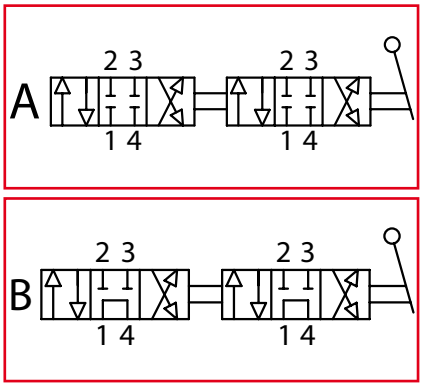
Caratteristiche tecniche
Technical performances

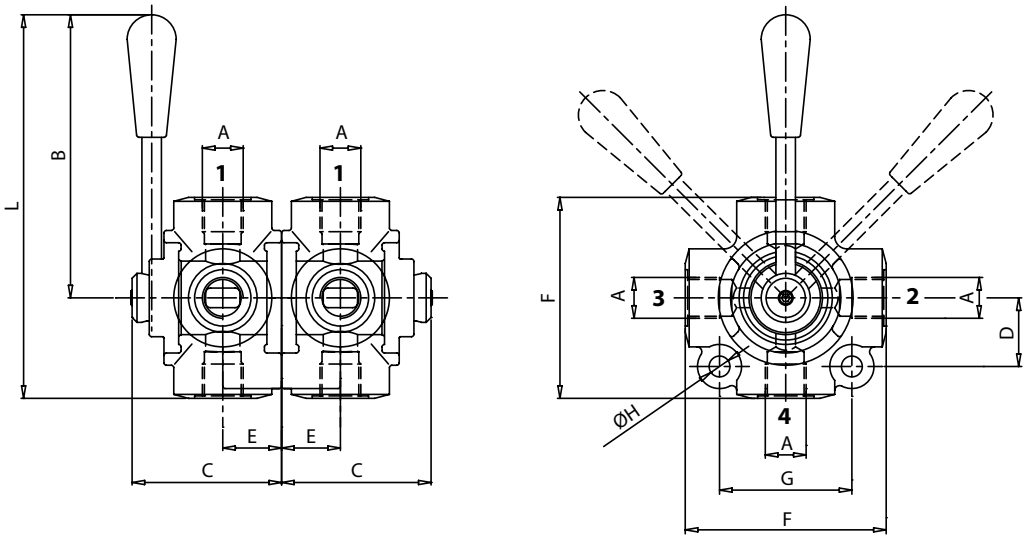
Codice *Code*	A	Portata Max *Max flow* l/min - *USgpm*	Pressione Max *Max pressure* bar/*PSI*	B	C	D	E	F	G	H	L	Peso approssimativo *Approx weight* Kg / *lb*
IDF4140	**BSPP 1/4**	**60** *(16)*	**350** *(5000)*	**115** *(4.53)*	**63** *(2.48)*	**28** *(1.10)*	**24** *(0.95)*	**80** *(3.15)*	**54** *(2.12)*	**8,5** *(0.33)*	**155** *(6.10)*	**1,2** *(2.6)*
IDF4380	**BSPP 3/8**											
IDF4120	**BSPP 1/2**	**90** *(23)*										
IDF4340	**BSPP 3/4**	**120** *(32)*			**77** *(3.03)*	**38** *(1.50)*	**31** *(1.22)*	**94** *(3.70)*	**74** *(2.91)*	**10,5** *(0.41)*	**162** *(6.38)*	**2,2** *(4.8)*
IDF4100	**BSPP 1**	**200** *(50)*	**300** *(4000)*									**2** *(4.4)*

IDF8

Deviatori di flusso a 8 vie
8 ways flow diverters

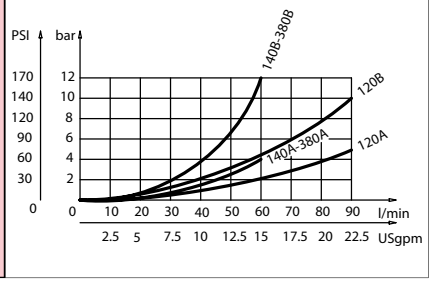
Dati tecnici *Technical data*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*
Classe di contaminazione *Filtration*	ISO code 16/13 *SAE class 4 or better*
Temperatura fluido *Fluid temperature*	-20°C +80°C *-4°F + 176°F*
Temperatura ambiente *Ambient temperature*	-20°C +50°C *-4°F +122°F*

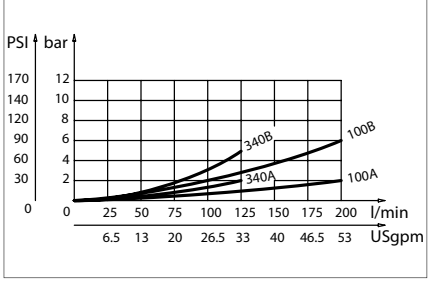




mm
(Inches)

Perdite di carico
Pressure drops





Codice ordinazione
Ordering code

IDF4 - X - Y

X	Dimensione / *Size*
140	BSPP 1/4
380	BSPP 3/8
120	BSPP 1/2
340	BSPP 3/4
100	BSPP 1

Y	Schema - *Circuit*
A	**Centro chiuso** *Closed centre*
B	**Centro aperto** *Open centre*

Caratteristiche tecniche
Technical performances

Codice *Code*	A	Portata Max *Max flow* l/min - *USgpm*	Pressione Max Max pressure bar/*PSI*	B	C	D	E	F	G	H	L	Peso approssimativo *Approx weight* Kg / *lb*
IDF8140	**BSPP 1/4**	**60** *(16)*	**350** *(5000)*	**115** *(4.53)*	**63** *(2.48)*	**28** *(1.10)*	**24** *(0.95)*	**80** *(3.15)*	**54** *(2.12)*	**8,5** *(0.33)*	**155** *(6.10)*	**2,3** *(5)*
IDF8380	**BSPP 3/8**											
IDF8120	**BSPP 1/2**	**90** *(23)*										**2,1** *(4.6)*
IDF8340	**BSPP 3/4**	**120** *(30)*			**77** *(3.03)*	**38** *(1.50)*	**31** *(1.22)*	**94** *(3.70)*	**74** *(2.91)*	**10,5** *(0.41)*	**162** *(6.38)*	**4,3** *(9.5)*
IDF8100	**BSPP 1**	**200** *(50)*	**300** *(4350)*									**4** *(8.8)*

Accessori

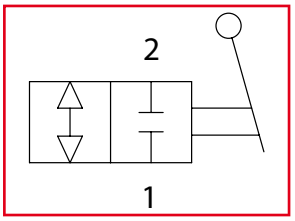
Accessories

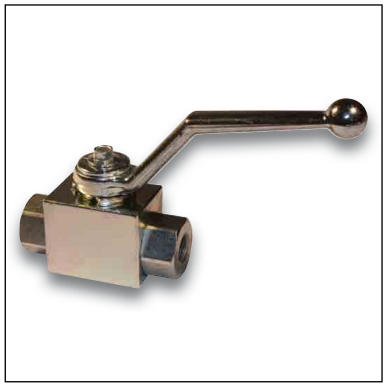
Oleoweb

HYDRAULIC VALVES AND COMPONENTS

RAS2

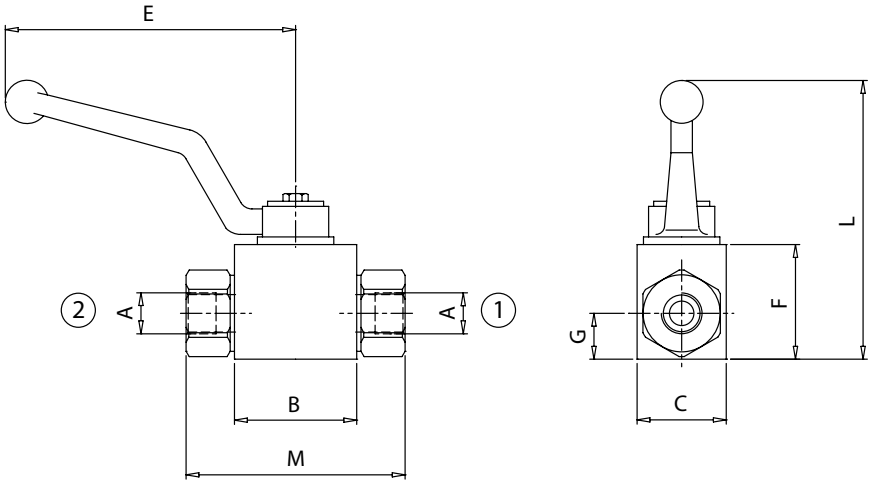
Valvole a sfera a 2 vie
2 ways ball valves

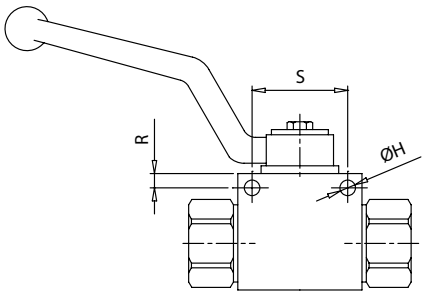




Dati tecnici
Technical data

Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*
Classe di contaminazione *Filtration*	ISO code 16/13 *SAE class 4 or better*
Temperatura fluido *Fluid temperature*	-20°C +80°C *-4°F + 176°F*
Temperatura ambiente *Ambient temperature*	-20°C +50°C *-4°F +122°F*





mm
(Inches)

Codice ordinazione
Ordering code

RAS2 - X - Y

X	Dimensione / *Size*
180	**BSPP 1/8**
140	**BSPP 1/4**
380	**BSPP 3/8**
120	**BSPP 1/2**
340	**BSPP 3/4**
100	**BSPP 1**
114	**BSPP 1-1/4**
112	**BSPP 1-1/2**

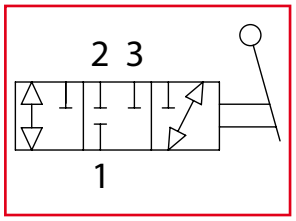
Y	Optional
P	**Fori di fissaggio** *Fixing ports*

Caratteristiche tecniche
Technical performances

Codice *Code*	A	Portata Max *Max flow* l/min - *USgpm*	Pressione Max *Max pressure* bar/*PSI*	B	C	E	F	G	H	L	M	R	S	Peso approssimativo *Approx weight* Kg / *lb*
RAS2180	**BSPP 1/8**	**15** *(4)*	**500** *(7250)*	**42** *(1.65)*	**30** *(1.18)*	**110** *(4.33)*	**35** *(1.38)*	**14,5** *(0.57)*	**5,2** *(0.20)*	**91,5** *(3.60)*	**71** *(2.80)*	**4,5** *(0.18)*	**34** *(1.34)*	**0,5** *(1.1)*
RAS2140	**BSPP 1/4**	**25** *(6.5)*												
RAS2380	**BSPP 3/8**	**35** *(9)*		**44** *(1.73)*	**35** *(1.38)*		**40** *(1.57)*	**17,5**(0.69)		**96,5** *(3.80)*	**73** *(2.87)*	**5** *(0.20)*	**36** *(1.42)*	**0,7**(1.5)
RAS2120	**BSPP 1/2**	**60** *(15)*		**48** *(1.89)*	**37** *(1.46)*		**43** *(1.69)*	**18** *(0.71)*		**99,5** *(3.91)*	**83** *(3.27)*	**6** *(0.24)*	**50** *(1.97)*	**0,8** *(1.8)*
RAS2340	**BSPP 3/4**	**100** *(25)*	**400** *(5800)*	**62,5** *(2.46)*	**45** *(1.77)*	**180** *(7.08)*	**55** *(2.16)*	**23,5** *(0.93)*	**6,2** *(0.24)*	**106,5** *(4.19)*	**95** *(3.74)*			**1,5** *(3.3)*
RAS2100	**BSPP 1**	**150** *(40)*	**350** *(5000)*	**66,5** *(2.62)*	**55** *(2.16)*		**65** *(2.56)*	**29,5** *(1.16)*		**116,5** *(4.59)*	**112** *(4.41)*			**2,3** *(5)*
RAS2114	**BSPP 1-1/4**										**120** *(4.72)*			
RAS2112	**BSPP 1-1/2**										**124** *(4.88)*			**2,5** *(5.5)*

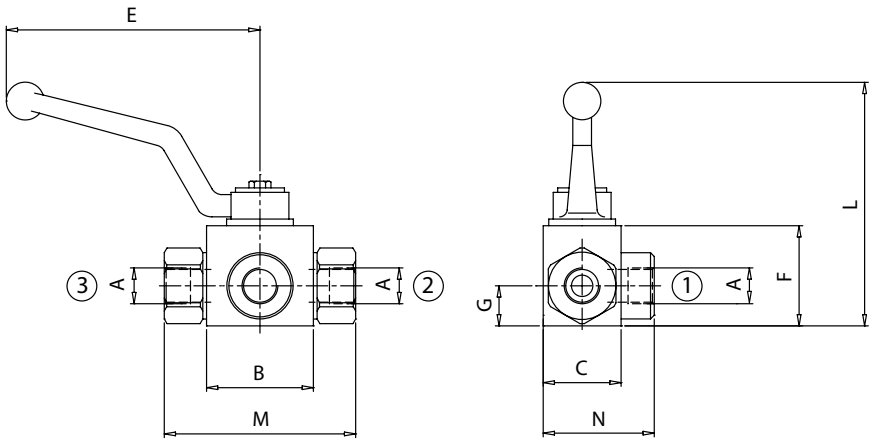
RAS3

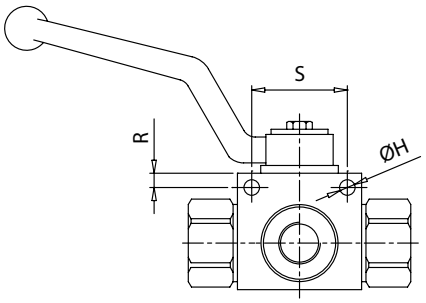
Valvole a sfera a 3 vie
3 ways ball valves



Dati tecnici
Technical data

Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*
Classe di contaminazione *Filtration*	ISO code 16/13 *SAE class 4 or better*
Temperatura fluido *Fluid temperature*	-20°C +80°C *-4°F + 176°F*
Temperatura ambiente *Ambient temperature*	-20°C +50°C *-4°F +122°F*





mm
(Inches)

Codice ordinazione
Ordering code

RAS3 - X - Y

X	Dimensione / *Size*
180	**BSPP 1/8**
140	**BSPP 1/4**
380	**BSPP 3/8**
120	**BSPP 1/2**
340	**BSPP 3/4**
100	**BSPP 1**
114	**BSPP 1-1/4**
112	**BSPP 1-1/2**

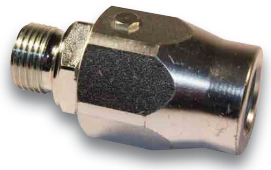
Y	Optional
P	**Fori di fissaggio** *Fixing ports*

Caratteristiche tecniche
Technical performances

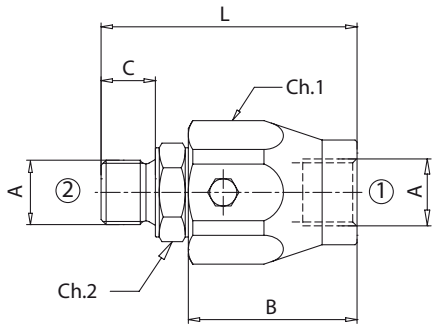
Codice *Code*	A	Portata Max *Max flow* l/min - *USgpm*	Pressione Max *Max pressure* bar/*PSI*	B	C	E	F	G	H	L	M	N	R	S	Peso approssimativo *Approx weight* Kg / *lb*
RAS3180	**BSPP 1/8**	**15** *(4)*	**400** *(5800)*	**42** *(1.65)*	**30** *(1.18)*	**110** *(4.33)*	**35** *(1.38)*	**14,5** *(0.57)*	**5,2** *(0.20)*	**91,5** *(3.60)*	**71** *(2.80)*	**48,5** *(1.90)*	**4,5** *(0.18)*	**34** *(1.34)*	**0,6** *(1.3)*
RAS3140	**BSPP 1/4**	**25** *(6.5)*													
RAS3380	**BSPP 3/8**	**35** *(9)*		**44** *(1.73)*	**35** *(1.38)*		**40** *(1.57)*	**17,5**(0.69)		**96,5** *(3.80)*	**73** *(2.87)*	**54,5** *(2.14)*	**5** *(0.20)*	**36** *(1.42)*	**0,7** *(1.5)*
RAS3120	**BSPP 1/2**	**60** *(15)*	**350** *(5000)*	**48** *(1.89)*	**37** *(1.46)*		**43** *(1.69)*	**18** *(0.71)*		**99,5** *(3.91)*	**83** *(3.27)*	**58,5** *(2.30)*	**6** *(0.24)*	**50** *(1.97)*	**0,8** *(1.8)*
RAS3340	**BSPP 3/4**	**100** *(25)*		**62,5** *(2.46)*	**45** *(1.77)*	**180** *(7.08)*	**55** *(2.16)*	**23,5** *(0.93)*	**6,2** *(0.24)*	**106,5** *(4.19)*	**95** *(3.74)*	**75** *(2.95)*			**1,6** *(3.5)*
RAS3100	**BSPP 1**	**150** *(40)*		**66,5** *(2.62)*	**55** *(2.16)*		**65** *(2.56)*	**29,5** *(1.16)*		**116,5** *(4.59)*	**112** *(4.41)*	**87,5** *(3.15)*			**2,4** *(5.3)*
RAS3114	**BSPP 1-1/4**										**120** *(4.72)*				**2,6** *(5.7)*
RAS3112	**BSPP 1-1/2**										**124** *(4.88)*				**2,8** *(6)*

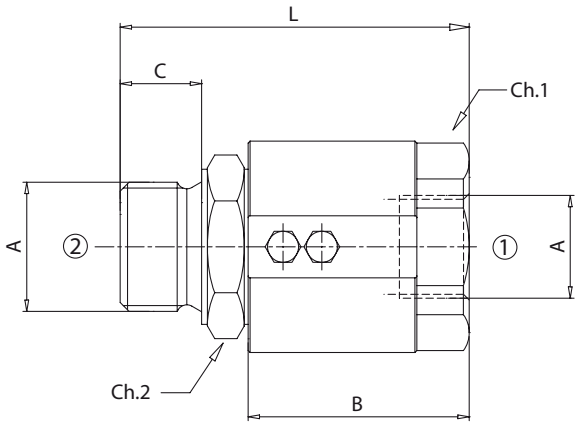
GGIL

Giunti girevoli in linea
In line rotating coupling



Dati tecnici *Technical data*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*
Classe di contaminazione *Filtration*	ISO code 16/13 *SAE class 4 or better*
Temperatura fluido *Fluid temperature*	-20°C +80°C *-4°F + 176°F*
Temperatura ambiente *Ambient temperature*	-20°C +50°C *-4°F +122°F*





mm
(Inches)

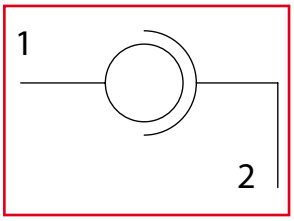
Codice ordinazione *Ordering code*	
GGIL - X	
X	Dimensione / *Size*
140	**BSPP 1/4**
380	**BSPP 3/8**
120	**BSPP 1/2**
340	**BSPP 3/4**
100	**BSPP 1**

Caratteristiche tecniche
Technical performances

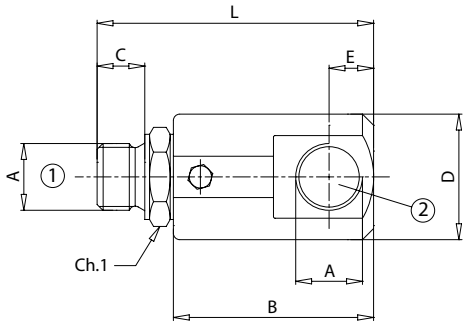
Codice *Code*	A	**Portata Max** **Max flow** **l/min - *USgpm***	**Pressione Max** ***Max pressure*** **bar/*PSI***	Pressione max in rotazione *Max rotation pressure* bar/*PSI*	Velocità max di rotazione *Max rotation speed* rev/*min*	B	C	Ch.1	Ch.2	L	Peso approssimativo *Approx weight* Kg / *lb*
GGIL140	**BSPP 1/4**	**25** *(6.5)*	**400** *(5800)*	**200** *(2900)*	**212**	**42** *(1.65)*	**11** *(0.43)*	**30** *(1.18)*	**19** *(0.75)*	**61** *(2.40)*	**0,21** *(0.46)*
GGIL380	**BSPP 3/8**	**35** *(9)*			**173**	**44** *(1.73)*	**14** *(0.55)*	**34** *(1.34)*	**24** *(0.95)*	**66** *(2.60)*	**0,27** *(0.60)*
GGIL120	**BSPP 1/2**	**60** *(15)*	**300** *(4000)*	**150** *(2200)*	**160**	**47** *(1.85)*	**15** *(0.59)*	**36** *(1.42)*	**27** *(1.06)*	**71** *(2.79)*	**0,34** *(0.75)*
GGIL340	**BSPP 3/4**	**100** *(26)*			**120**	**50** *(1.97)*	**19** *(0.75)*	**45** *(1.77)*	**34** *(1.34)*	**80** *(3.15)*	**0,55** *(1.2)*
GGIL100	**BSPP 1**	**180** *(47)*		**100** *(1450)*	**100**	**57** *(2.24)*	**21** *(0.82)*	**50** *(1.97)*	**41** *(1.61)*	**90** *(3.54)*	**0,91** *(2)*

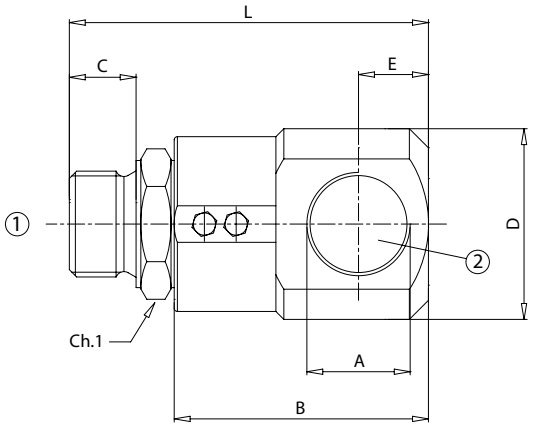
GG90

Giunti girevoli a 90°
90° rotating coupling



Dati tecnici *Technical data*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*
Classe di contaminazione *Filtration*	ISO code 16/13 *SAE class 4 or better*
Temperatura fluido *Fluid temperature*	-20°C +80°C *-4°F + 176°F*
Temperatura ambiente *Ambient temperature*	-20°C +50°C *-4°F +122°F*





mm
(Inches)

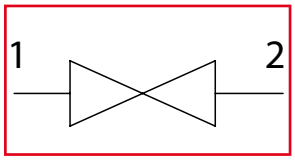
Codice ordinazione *Ordering code*	
GG90 - X	
X	Dimensione / *Size*
140	**BSPP 1/4**
380	**BSPP 3/8**
120	**BSPP 1/2**
340	**BSPP 3/4**
100	**BSPP 1**

Caratteristiche tecniche
Technical performances

Codice *Code*	A	**Portata Max** ***Max flow*** **l/min - *USgpm***	**Pressione Max** ***Max pressure*** **bar/*PSI***	Pressione max in rotazione *Max rotation pressure* bar/*PSI*	Velocità max di rotazione *Max rotation speed* rev/*min*	B	C	D	E	L	Ch.1	Peso approssimativo *Approx weight* Kg / *lb*
GG90140	**BSPP 1/4**	**25** *(6.5)*	**400** *(5800)*	**200** *(2900)*	**212**	**50** *(1.97)*	**11** *(0.43)*	**33,5** *(1.32)*	**11** *(0.43)*	**69** *(2.71)*	**19** *(0.75)*	**0,31** *(0.68)*
GG90380	**BSPP 3/8**	**35** *(9)*			**173**	**54** *(2.13)*	**14** *(0.55)*	**37,5** *(1.48)*	**13** *(0.51)*	**76** *(2.99)*	**24** *(0.95)*	**0,41** *(0.90)*
GG90120	**BSPP 1/2**	**60** *(15)*	**300** *(4000)*	**150** *(2200)*	**160**	**63** *(2.48)*	**15** *(0.59)*	**39,5** *(1.55)*	**14** *(0.55)*	**87** *(3.42)*	**27** *(1.06)*	**0,52** *(1.15)*
GG90340	**BSPP 3/4**	**100** *(26)*			**120**	**70** *(2.76)*	**19** *(0.75)*	**54,5** *(2.15)*	**18** *(0.71)*	**100** *(3.93)*	**34** *(1.34)*	**0,90** *(2)*
GG90100	**BSPP 1**	**180** *(47)*		**100** *(1450)*	**100**	**80** *(3.15)*	**21** *(0.82)*	**55** *(2.16)*	**25** *(0.98)*	**113** *(4.45)*	**41** *(1.61)*	**1,12** *(2.5)*

SOV1400

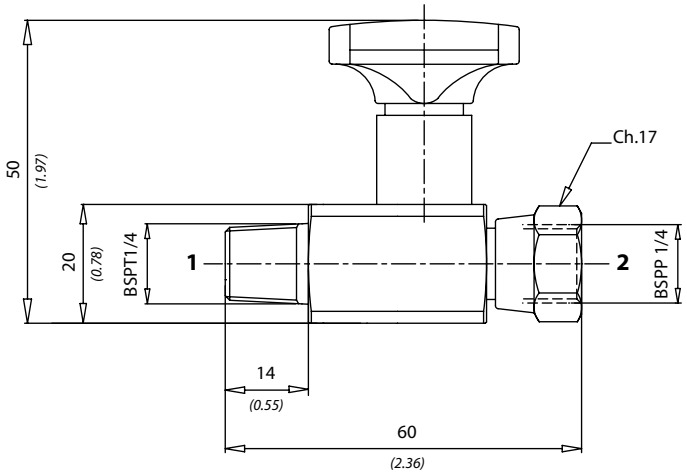
Rubinetto esclusore in linea protezione manometro
Pressure gauge in-line shut-off valve



Dati tecnici *Technical data*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*
Classe di contaminazione *Filtration*	ISO code 16/13 *SAE class 4 or better*
Temperatura fluido *Fluid temperature*	-20°C +80°C *-4°F + 176°F*
Temperatura ambiente *Ambient temperature*	-20°C +50°C *-4°F +122°F*

Caratteristiche tecniche *Technical performances*		
Codice *Code*	**Pressione Max** ***Max pressure*** **bar/*PSI***	Peso approssimativo *Approx weight* Kg / *lb*
SOV1400	**400** *(5800)*	**0,15** *(0.33)*

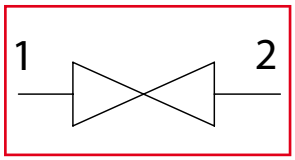
Codice ordinazione *Ordering code*
SOV1400



mm
(Inches)

SOV1490

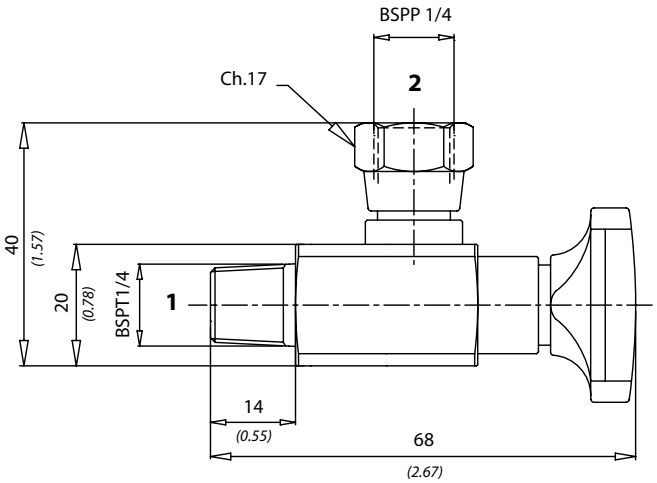
Rubinetto esclusore a 90° protezione manometro
Pressure gauge 90° shut-off valve



Dati tecnici *Technical data*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*
Classe di contaminazione *Filtration*	ISO code 16/13 *SAE class 4 or better*
Temperatura fluido *Fluid temperature*	-20°C +80°C *-4°F + 176°F*
Temperatura ambiente *Ambient temperature*	-20°C +50°C *-4°F +122°F*

Caratteristiche tecniche *Technical performances*		
Codice *Code*	**Pressione Max** ***Max pressure*** **bar/*PSI***	Peso approssimativo *Approx weight* Kg / *lb*
SOV1490	**400** *(5800)*	**0,15** *(0.33)*

Codice ordinazione *Ordering code*
SOV1490



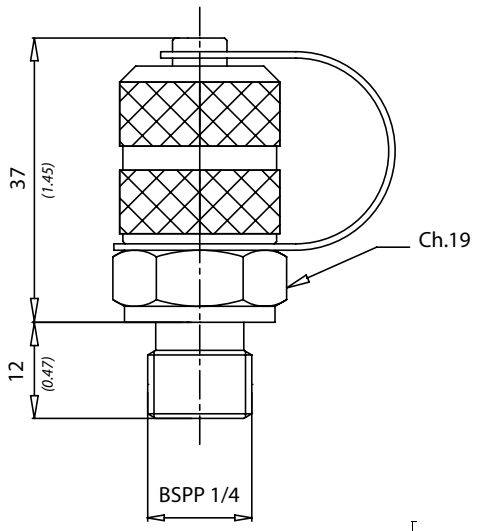
mm
(Inches)

MNP140

Miniprese prova pressione

Test couplings for pressure checking

Dati tecnici *Technical data*	
Viscosità fluido *Fluid viscosity*	10-500 mm^2/s *45 to 2000 ssu (6 to 420 cSt)*
Classe di contaminazione *Filtration*	ISO code 16/13 *SAE class 4 or better*
Temperatura fluido *Fluid temperature*	-20°C +80°C *-4°F + 176°F*
Temperatura ambiente *Ambient temperature*	-20°C +50°C *-4°F +122°F*



mm *(Inches)*

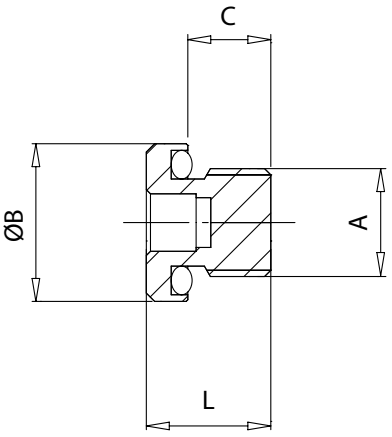
Caratteristiche tecniche *Technical performances*			
Codice *Code*	Pressione Max *Max pressure* bar/*PSI*	Coppia di serraggio *Tightening torque* Nm/*lbf ft*	Peso approssimativo *Approx weight* Kg / *lb*
MNP	**630** *(9000)*	**30** *(22)*	**0,08** *(0.18)*

Codice ordinazione *Ordering code*
MNP140

Tappi

Plugs

Caratteristiche tecniche *Technical performances*				
Codice *Code*	A	B	C	L
12000050	**BSPP 1/8**	**16** *(0.63)*	**5,5** *(0.22)*	**9,5** *(0.37)*
12000137	**BSPP 1/4**	**19** *(0.75)*	**10** *(0.39)*	**15** *(0.59)*
83500003	**BSPP 3/8**	**22** *(0.87)*	**11** *(0.43)*	**17** *(0.67)*
83500004	**BSPP 1/2**	**27** *(1.06)*	**14** *(0.55)*	**20** *(0.79)*
12000160	**BSPP 3/4**	**32** *(1.26)*		

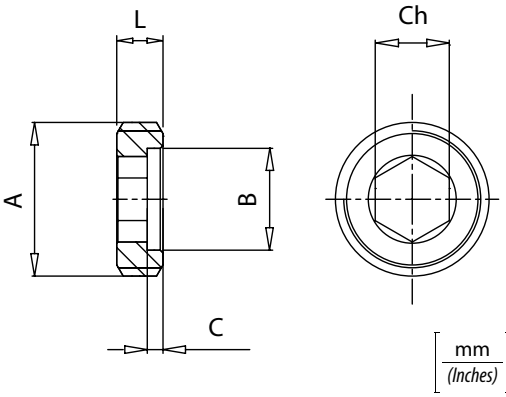


mm *(Inches)*

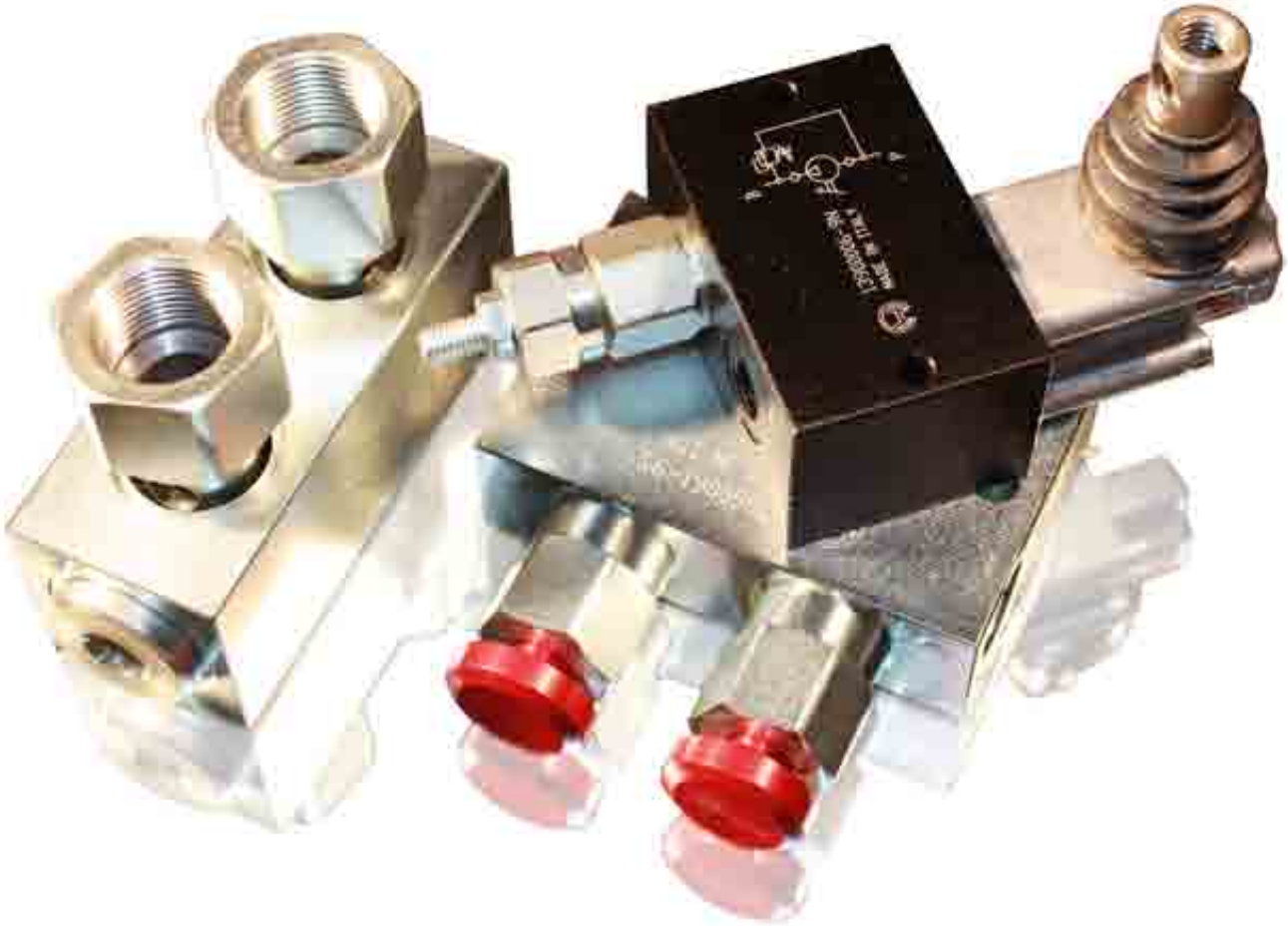
Ghiere filettate

Threaded rings

Caratteristiche tecniche *Technical performances*					
Codice *Code*	A	B	C	L	Ch
61300301	**M9x1**	**5,5** *(0.22)*	**1,7** *(0.07)*	**4** *(0.16)*	**4** *(0.16)*
61300171	**M12x1**	**8,1** *(0.32)*			**5** *(0.20)*
61300008	**BSPP 1/4**				
61300110	**BSPP 3/8**			**5** *(0.20)*	
61300009		**11** *(0.43)*			**8** *(0.32)*
61300005	**BSPP 1/2**	**14,5** *(0.57)*	**2** *(0.08)*	**6** *(0.24)*	**12** *(0.47)*
61300021	**BSPP 3/4**	**20** *(0.79)*	**3** *(0.12)*	**7** *(0.27)*	**16** *(0.63)*
61300026	**BSPP 1**	**24** *(0.95)*	**4** *(0.16)*	**9** *(0.35)*	**18** *(0.71)*



mm *(Inches)*



Applicazioni speciali

Special applications

Oleoweb

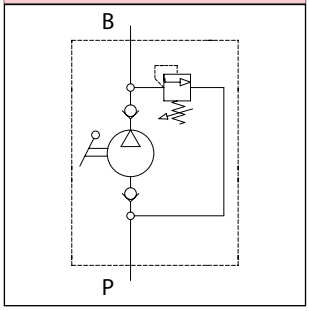
HYDRAULIC VALVES AND COMPONENTS

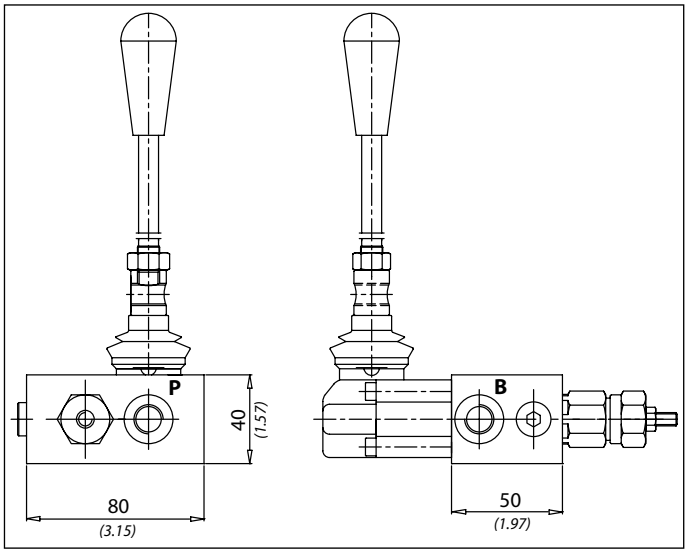
Applicazioni speciali

Special applications

BLOCCO 53
(Manifold 53)

Cod. **13900006**

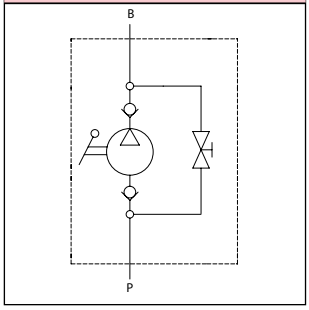


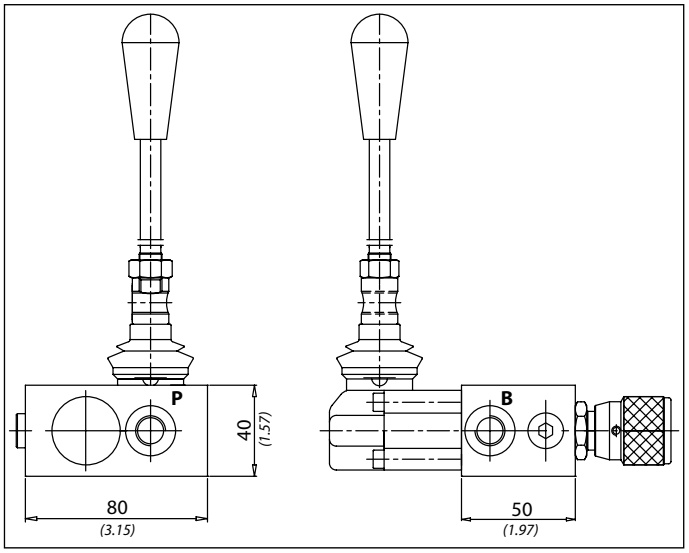


mm
(Inches)

BLOCCO 54
(Manifold 54)

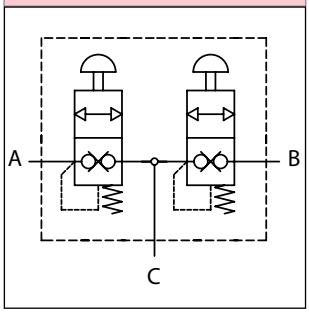
Cod. **13900008**

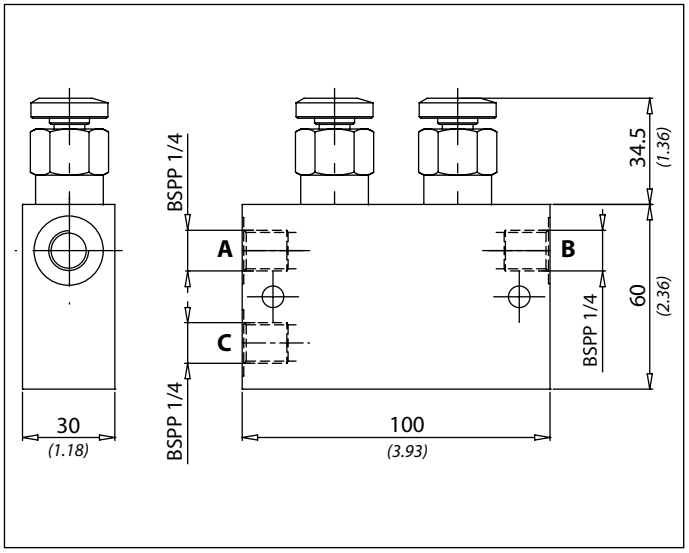




BLOCCO 57
(Manifold 57)

Cod. **13900003**



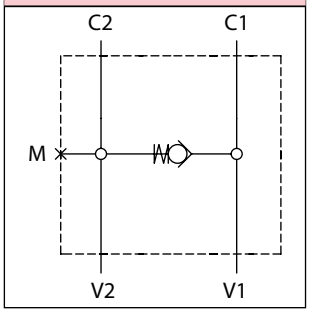


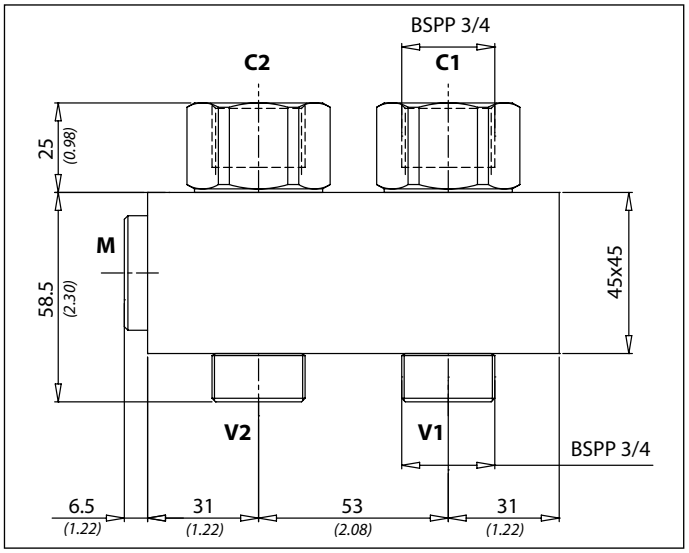
Applicazioni speciali

Special applications

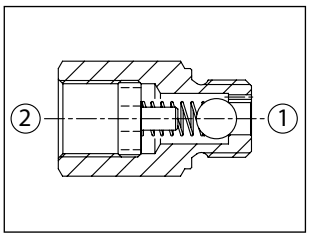
BLOCCO 58
(Manifold 58)

Cod. **13900047**



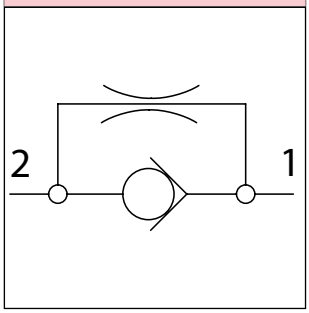


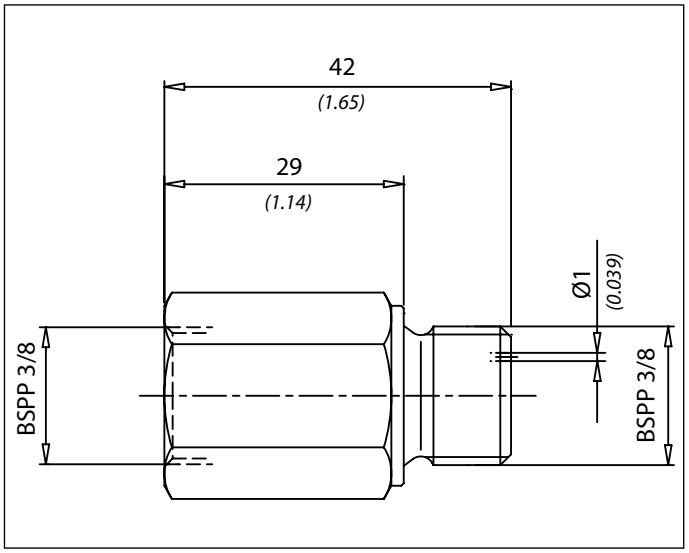
mm
(Inches)

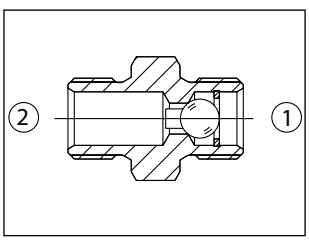


Valvola unidirezionale con trafilamento
(Check valve with gap)

Cod. **13900041**

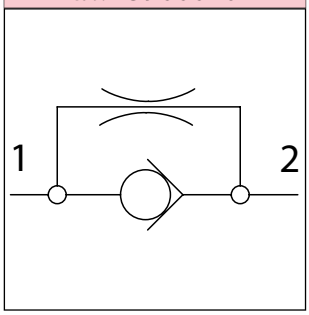


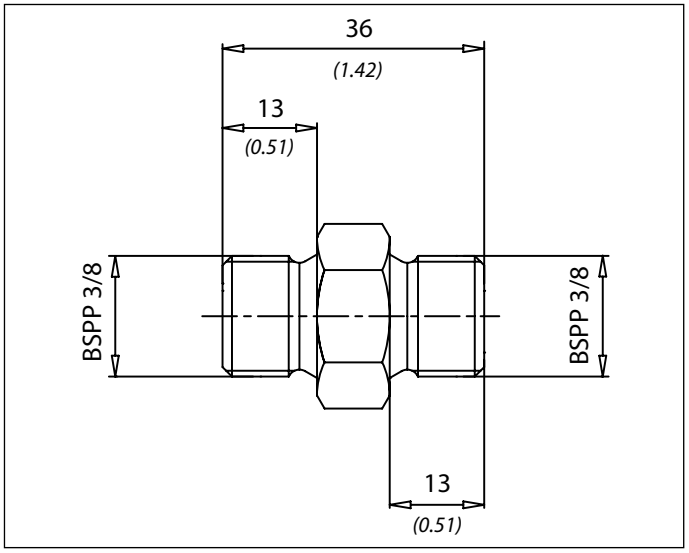




Valvola unidirezionale con trafilamento
(Check valve with gap)

Cod. **13900010**





HYDRAULIC VALVES MAINTENANCE BOOKLET

This handbook is directed to specialised and competent staff that may not replace in any case the knowledge and competence of the installer. The Producer disclaims any responsability for damage to persons and objects due to a bad or improper installation of the valves. *OLEOWEB SRL* is geared to a continuos reserch and development of its products and therefore reservers the right to change at any time and without notice all the technical characteristics deemed necessary. This manual will undergo changes and additions, but shall in no circumstances be regarded as outdated. This manual and the technical documentation of *OLEOWEB SRL* are intended to provide additional technical information to competet users of the departement and/or employees.

COMPETENT PERSON

It's a person that has sufficient knowledge of the department for technical worth of training and experience. The User, however, is the only responsible for the choice of the product and its accessories. It is therefore important that the user analyses the problems of its application, running adequate tests. The same user is also responsible for the implementation of security and warnings required by existing laws.

ENGRAVING

Oleoweb's valves can be simply identified through the stamp placed on the valve:
- Corporate Logo
- Hydraulic circuit
- Article code
- Month and year of manifacture (extension code)

MANUFACTURE MONTH	MANUFACTURE YEAR									
	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
JANUARY	0M	11M	12M	13M	14M	15M	16M	17M	18M	19M
FEBRUARY	0N	11N	12N	13N	14N	15N	16N	17N	18N	19N
MARCH	0P	11P	12P	13P	14P	15P	16P	17P	18P	19P
APRIL	0Q	11Q	12Q	13Q	14Q	15Q	16Q	17Q	18Q	19Q
MAY	0R	11R	12R	13R	14R	15R	16R	17R	18R	19R
JUNE	0S	11S	12S	13S	14S	15S	16S	17S	18S	19S
JULY	0T	11T	12T	13T	14T	15T	16T	17T	18T	19T
AUGUST	0U	11U	12U	13U	14U	15U	16U	17U	18U	19U
SEPTEMBER	0V	11V	12V	13V	14V	15V	16V	17V	18V	19V
OCTOBER	0Z	11VZ	12Z	13Z	14Z	15Z	16Z	17Z	18Z	19Z
NOVEMBER	0X	11X	12X	13X	14X	15X	16X	17X	18X	19X
DICEMBER	0Y	11Y	12Y	13Y	14Y	15Y	16Y	17Y	18Y	19Y

USE OF THE VALVES

OLEOWEB valves are destined from *OLEOWEB* to manufacturers of hydraulic power equipment.
Given the wide application of hydraulic valves and given the fact that it's not always possible to know the final destination of the product, this manual has been produced only on the basis of know generic application.

LIMITATIONS OF USE

OLEOWEB SRL warns each user/customer or manufacturer not to employ valves in the following applications:
- environments where there is danger of explosion and fire;
- vehicles and aeronautical or space equipment;
- steering systems and equipment for vehicles due to carry person, things and animals;
- brake systems, blocking and deadlock in general;
- Equipment and installation of application in the military, nuclear, medical and hospital department

HOWEVER, THE THECNICAL DEPARTMENT IN OLEOWEB SRL, AFTER REQUEST OF THE USER, MAY EVALUATE CASE-BY-CASE APPLICATIONS AND GIVE IT'S AUTHORIZATION.

MECHANICAL SPECIFICATIONS

- Do not tamper with any type of valve: a simple loosing of valve could cause the free fall of loads or failure of structures.
- All operations of installation, assembly, maintenance and removal of valves and components applied to it must be executed with the utmost respect of safety standars. During these operations, within the hydraulic circuit there must never be pressure (pressure zero) and there should not be any type of cargo on the structures of the equipment or the machinery to which the valve is applied (load zero).

ELECTRICAL SPECIFICATION

- All electrical connections and disconnections must be carried out by skilled and competent staff.
- Before making any action or intervention on the valve, this must be disconnected from its power source.

SECURITY SPECIFICATION

- Use safety protection;
- Work under very clean conditions;
- Work under maximum security conditions;
- Use tools and service desks always in suitable and clean conditions;
- During the start-up operations, normal work, maintenance, adjustment, leaking, intervention and drive of valves and various elements of control, SUDDEN SPILLS AND LEAKS OF HYDRAULIC FLUID MAY OCCUR, WHICH CAN REACH TEMPERATURES SUCH AS TO CAUSE BURNS TO THE SKIN.

Hydraulic fluid may be dangerous to health as in contact with skin and eyes and can cause serious damage.Follow scrupulously the protection and security provisions imposed by the manufacturer of the hydraulic fluid listed on the technical and toxicological schedule of the product. Hydraulic fluid may be a pollutant product. It's good practice therefore to avoid loss of hydraulic fluid using tanks to collect and protect against accidental spills and leakage of hydraulic fluid using also oil-absorbing products. Quick changes in temperature may affect both the characteristics and the duration of the product, so it is essential to protect it from these situations.

MOUNTING

A fitting and proper installation are essential factors for the smooth functioning of an hydraulic plant. Dust and dirt are the worst enemies of hydraulic.
During installation you have to concentrate on the utmost clean by conducting the main operations in a clean and non-dusty room. Valves must be mounted in such a way as to allow easy access to controls, inspections, maintenance and repair, it is also equally essential that they are mounted in an accidental bumps protected area and repaired by random physical contact, as the temperature reached during the operation can cause burns.

HANDLING

Hydraulic valves are products to handle with care and attention. Characteristic of those valve is to have protuberances subject to breakage.

STORAGE

Hydraulic valves must be stored in a protected place, possibly closed, away from dust, dirt, humidity and bad weather conditions, with a minimum temperature of -15°C and not exceeding +50°C. In addition, valves are provided with protective plastic caps into their holes routes to avoid the loss of hydraulic fluid left in the valve after testing and not allow access to foreign bodies, which could be very dangerous for the smooth functioning and for the duration of the valve. It is therefore essential not remove these caps if not before mounting the valve.

DISPOSAL OF THE VALVES

Hydraulic valves are constructed primarily of aluminum alloy, steel alloy and plastic; therefore they can be disposed of as normal materials sending them for recycling with the only advice to make a complete emptying of the hydraulic fluid they may contain.

DISPOSAL OF THE HYDRAULIC FLUID

Hydrauilic fluids are subject to special disposal requirements: therefore comply with the directions and instructions of producers and abide by the laws in force in the country of use.

DO NOT THROW THE REPLACED FLUID IN THE ENVIROMENT

MAINTENACE

The good installation and care during installation and putting into operation ensures a long duration of the oilhydraulic plant without drawbacks or need of special care maintenance. The principle basic is the need to frenquently monitor the quality and status of the fluid that transmits power and ensure that there are no impurities in the circuit: the good condition of the fluid is reported the reliability of any oilhydraulic machine. Indeed, among the leading causes of out of service or fault, you can report the equipment block as a result of seizing or braking due to wear and aging of the fluid that transmits power, with consequent loss of its chemical and physical properties. It's now certain that the main cause of all these drawbacks is due to the presence of hosts and microparticles circulating continuously in the fluid and which constitute grounds for wear. A large quantity of these microparticles, if left circulating in the system, acts as an abrasive mixture scraping the surfaces with which it comes into contact and dragging in cycle further contaminant particles; damage are, of course, the more severe the more sophisticated the installed equipment is.
From the putting in motion of the installation, maintenance is basically made of small operations that, to be truly effective, must be carried out with regularity. It is therefore extremely important that these operations of control and verification are planned and reported on sheets of machinery or plant.

EXTERIOR CLEANING

It allows easy location of any losses and therefore immediate intervention.

CONTINUOUS MONITORING OF THE TEMPERATURE

Alteration of the fluid because of the temperature is a cause of pollution and degradation of the plant. The creation of particles inside the oil is particularly favoured by the heat: the rate of oxidation can be considered almost constant up to 60°C, doubling starting from this point to each increment of 10°C. The presence of sludge and sediment in the oil, because of a roiled appearance, reports it's degradation.

REPLACEMENT OF THE FLUID

Ensure over time better working conditions, with frequent monitoring of the fluid and its periodic replacement. On average, after the first 100 hours of work, then every 2000 hours or once a year. For each exchange replace also the filters and clean the tank. Before running the exchange of hydraulic fluid, completely clear the plant from it.

GUARANTEE

GUARANTEE TERMS

The products we manufacture are guaranteed against possible failures due to manufacturing defects or materials used. The duration of the guarantee will be 12 months after the shipment from our premises. Any intervention of revision within the guarantee period must be carried out by Thecnical Assistance authorized by us, or at our establishment where products must be sent in free port with appropriate packaging. It will be considered lapsed in case of inproper use, tampering, amendment and/or repair carried out by non authorized staff.

TECHNICAL ASSISTANCE AFTER GUARANTEE PERIOD

OLEOWEB SRL is available for repairs of their products even when the period of guarantee has already run out.
OLEOWEB SRL will carry out the repair also after several years of use (provided it is still cost convenient). The availability of spare parts made on OLEOWEB drawing is guaranteed up to 5 years by ceased production.
The cost of repair of our no longer under warranty products is normally calculated on the actual cost.
Any price request must be made expressly on delivery of the goods that have to be repaired. If the estimate will not be accepted, we will be anyway charging the costs we incurred for its formulation.

Every product made for the revision must be accompanied by:
1. Law Regular and complete transport document.
2. Defect identifying letter and reference of a Technical Manager for any clarifications.

Oleoweb

HYDRAULIC VALVES AND COMPONENTS

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