

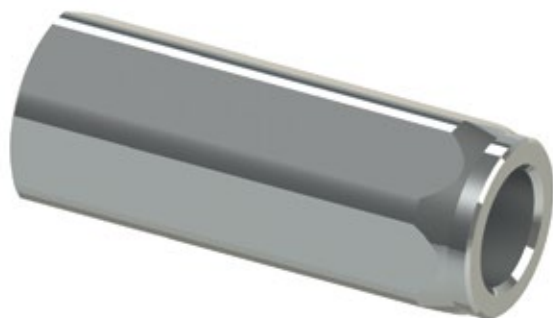


HYDRAULIC VALVES AND COMPONENTS

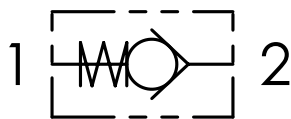


In-line valves

Valvole in linea



Schema idraulico - Hydraulic circuit



Codice ordinazione
Ordering code

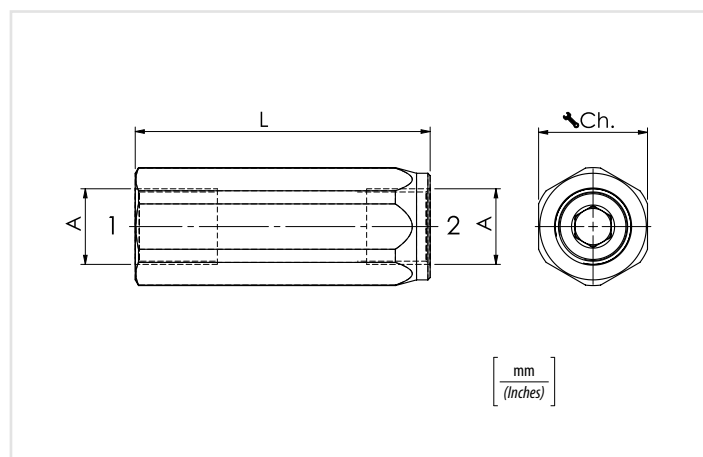
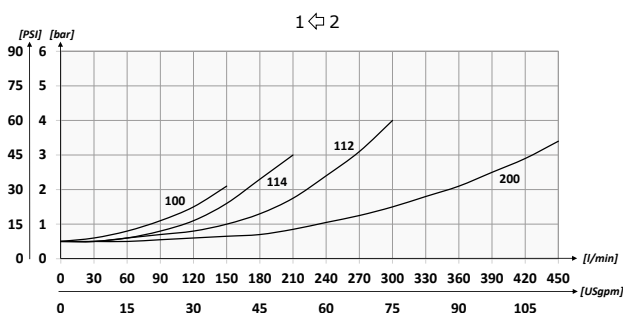
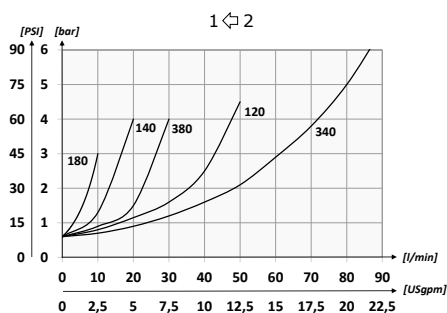
01	02	03	04
VUR			

01	Valvole unidirezionali a colonnetta F/F (F/F check housing valves)	VUR
02	Dimensione (Size)	BSPP1/8 180
		BSPP1/4 140
		BSPP3/8 380
		BSPP1/2 120
		BSPP3/4 340
		BSPP1 100
		BSPP1-1/4 114
		BSPP1-1/2 112
03	Tenuta (Sealing)	Tenuta a sfera solo per VUR180/140/380/120 (Ball sealing only for VUR180/140/380/120) SF
		Tenuta a cono (Poppet sealing) SP
04	Molla (Spring)	1 bar Standard (14.5 PSI) 1
		3 bar (43.5 PSI) 3
		4,5 bar (65.25 PSI) 4,5
		6 bar (87 PSI) 6

Dati tecnici - Technical data

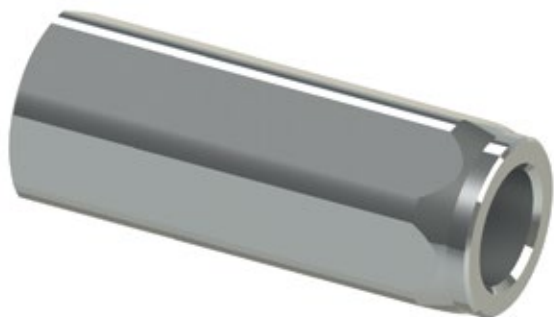
Olio idraulico/Mineral oil	ISO 6743/4 (DIN 51524)
Viscosità olio/Oil viscosity	15-250 mm ² /s (15 to 250 cSt)
Classe di contaminazione max con filtro Max contamination index with filter	ISO 4406:1999 Classe 19/17/14
Temperatura dell'olio/Oil temperature	-20°C +80°C -4°F + 176°F
Temperatura ambiente/Ambient temperature	-20°C +50°C -4°F + 122°F
È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm) It is necessary a filter use to protect the valve (advised filtration 15 µm)	
Trafilamento massimo Max leakage	0,25 cm ³ /min - 5 gocce/min 0,015 in ³ /min - 5 drops/min

Performances

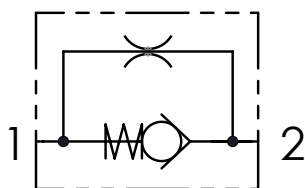


Caratteristiche tecniche - Technical characteristics

Codice Code	A	Portata Max (l/min) Max flow (USgpm)	Pressione max (bar) Max Pressure (PSI)	L	Ch.	Peso approssimativo(kg) Approx weight (lb)
VUR180	BSPP1/8	5 (1.3)	400 (5800)	47 (1.85)	14	0,05 (0.11)
VUR140	BSPP1/4	15 (4.0)		55 (2.17)	19	0,10 (0.22)
VUR380	BSPP3/8	30 (7.9)		65 (2.56)	24	0,18 (0.40)
VUR120	BSPP1/2	50 (13.2)		75 (2.95)	27	0,23 (0.50)
VUR340	BSPP3/4	90 (23.8)		86,5 (3.41)	35	0,45 (1)
VUR100	BSPP1	150 (39.6)	350 (5075)	110 (4.33)	41	0,73 (1.6)
VUR114	BSPP1-1/4	200 (52.8)		123 (4.84)	55	1,5 (3.3)
VUR112	BSPP1-1/2	300 (79.2)		138 (5.43)	60	1,85 (4.07)
VUR200	BSPP2	430 (113.5)	250 (3625)	160 (6.30)	70	2,7 (6)

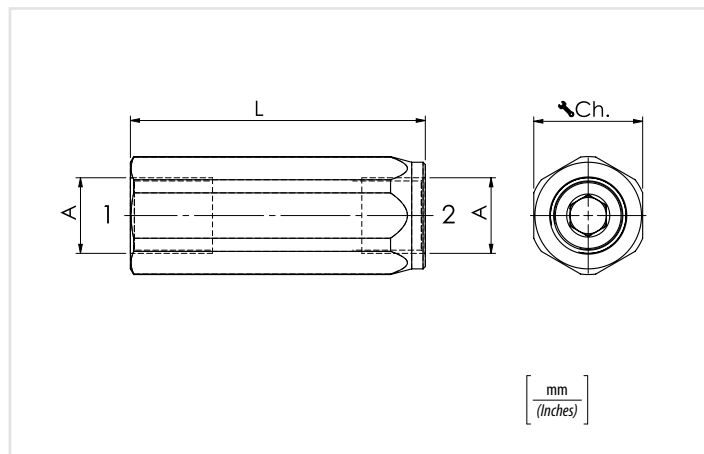


Schema idraulico - Hydraulic circuit



Dati tecnici - Technical data

Olio idraulico/Mineral oil	ISO 6743/4 (DIN 51524)
Viscosità olio/Oil viscosity	15-250 mm ² /s (15 to 250 cSt)
Classe di contaminazione max con filtro Max contamination index with filter	ISO 4406:1999 Classe 19/17/14
Temperatura dell'olio/Oil temperature	-20°C +80°C -4°F + 176°F
Temperatura ambiente/Ambient temperature	-20°C +50°C -4°F + 122°F
È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm) It is necessary a filter use to protect the valve (advised filtration 15 µm)	



Caratteristiche tecniche - Technical characteristics

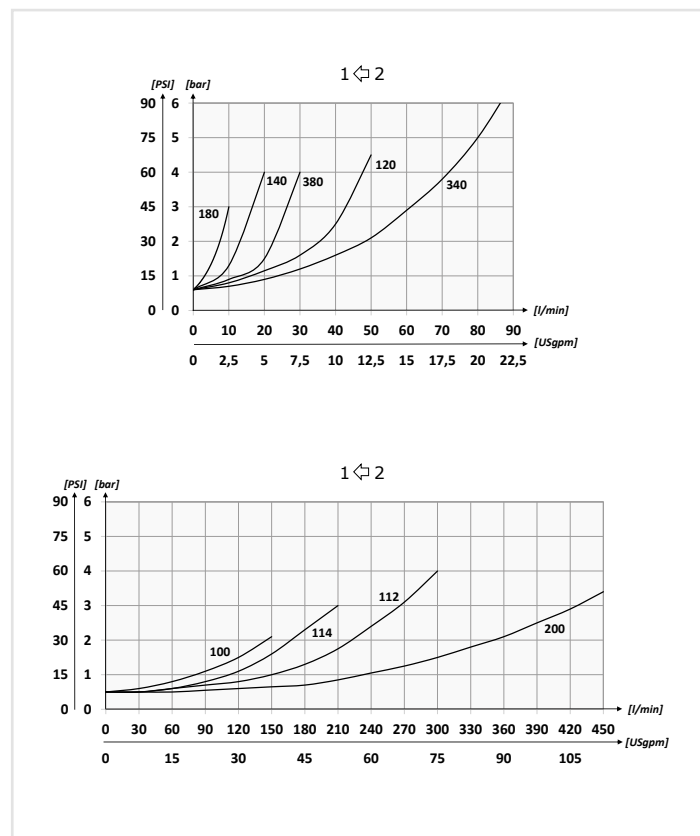
Codice Code	A	Portata Max (l/min) Max flow (USgpm)	Pressione max (bar) Max Pressure (PSI)	L	Ch.	Peso approssimativo (kg) Approx weight (lb)
VUR180	BSPP1/8	5 (1.3)	400 (5800)	47 (1.85)	14	0,05 (0.11)
VUR140	BSPP1/4	15 (4.0)		55 (2.17)	19	0,10 (0.22)
VUR380	BSPP3/8	30 (7.9)		65 (2.56)	24	0,18 (0.40)
VUR120	BSPP1/2	50 (13.2)		75 (2.95)	27	0,23 (0.50)
VUR340	BSPP3/4	90 (23.8)		86,5 (3.41)	35	0,45 (1)
VUR100	BSPP1	150 (39.6)	350 (5075)	110 (4.33)	41	0,73 (1.6)
VUR114	BSPP1-1/4	200 (52.8)		123 (4.84)	55	1,5 (3.3)
VUR112	BSPP1-1/2	300 (79.2)		138 (5.43)	60	1,85 (4.07)
VUR200	BSPP2	430 (113.5)	250 (3625)	160 (6.30)	70	2,7 (6)

Codice ordinazione Ordering code

01	02	03	04	05
VUR		SP		

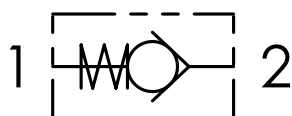
01	Valvole unidirezionali F/F a colonnetta con foro di strozzatura (F/F check housing valves with restriction hole)	VUR
02	Dimensione (Size)	BSPP1/8 180
		BSPP1/4 140
		BSPP3/8 380
		BSPP1/2 120
		BSPP3/4 340
		BSPP1 100
		BSPP1-1/4 114
03	Tenuta (Sealing)	BSPP1-1/2 112
		BSPP2 200
04	Molla (Spring)	Tenuta a cono (Poppet sealing) SP
		1 bar Standard (14.5 PSI) 1
		3 bar (43.5 PSI) 3
		4,5 bar (65.25 PSI) 4,5
05	Foro di strozzatura (Restriction hole)	6 bar (87 PSI) 6
		Indicare il diametro del foro. Esempio: VUR380SP1 con foro Ø 1,5 mm Cod. VUR380SP1-1,5 State the hole diameter Example: VUR380SP1-1,5 with Ø 0,06 in hole Cod. VUR380SP1-1,5

Performances





Schema idraulico - Hydraulic circuit



Codice ordinazione
Ordering code

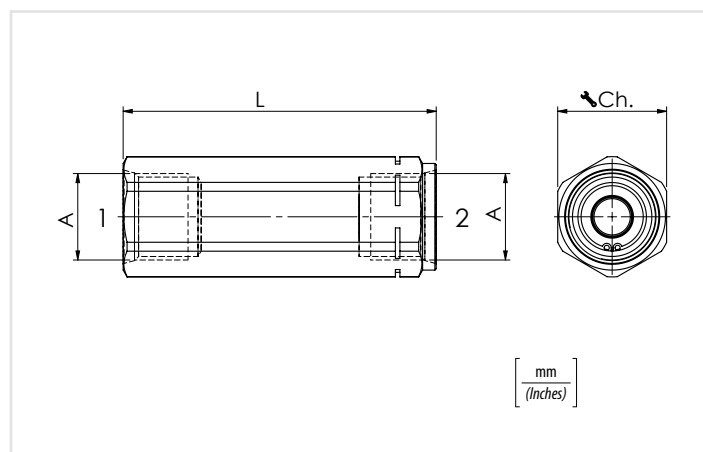
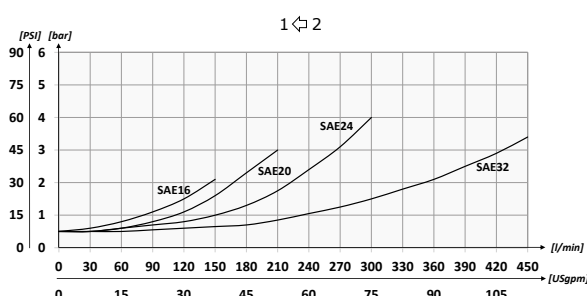
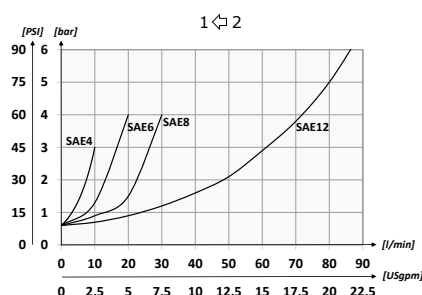
01	02	03	04
VUR		SP	

01	Valvole unidirezionali a colonnetta F/F (F/F check housing valves)	VUR
02	Dimensione (Size)	7/16-20UNF
		4
		9/16-18UNF
		6
		3/4-16UNF
		8
		1-1/16-12 UN
		12
		1-5/16-12 UN
		16
		1-5/8-12 UN
		20
		1-7/8-12 UN
		24
		2-1/2-12 UN
		32
03	Tenuta (Sealing)	Tenuta a cono (Poppet sealing)
04	Molla (Spring)	0,5 bar Standard (7.25 PSI)
		0,5
		3 bar (43.5 PSI)
		3
		4,5 bar (65.25 PSI)
		4,5
		6 bar (87 PSI)
		6

Dati tecnici - Technical data

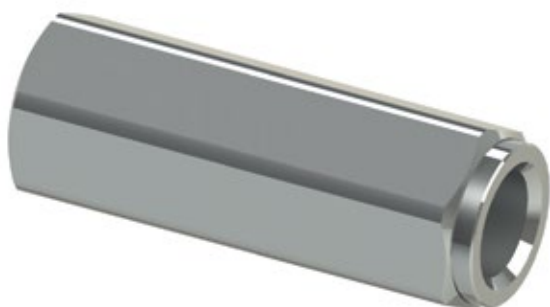
Olio idraulico/Mineral oil	ISO 6743/4 (DIN 51524)
Viscosità olio/Oil viscosity	15-250 mm ² /s (15 to 250 cSt)
Classe di contaminazione max con filtro Max contamination index with filter	ISO 4406:1999 Classe 19/17/14
Temperatura dell'olio/Oil temperature	-20°C +80°C -4°F + 176°F
Temperatura ambiente/Ambient temperature	-20°C +50°C -4°F + 122°F
È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm) It is necessary a filter use to protect the valve (advised filtration 15 µm)	
Trafilamento massimo Max leakage	0,25 cm ³ /min - 5 gocce/min 0,015 in ³ /min - 5 drops/min

Performances

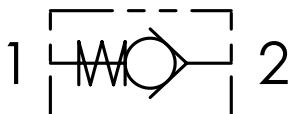


Caratteristiche tecniche - Technical characteristics

Codice Code	A	Portata Max (l/min) Max flow (USgpm)	Pressione max (bar) Max Pressure (PSI)	L	Ch.	Peso approssimativo (kg) Approx weight (lb)
VUR4	7/16-20UNF	5 (1.3)	400 (5800)	55 (2.17)	19	0,11 (0.24)
VUR6	9/16-18UNF	15 (4)		58 (2.28)	19	0,09 (0.20)
VUR8	3/4-16UNF	30 (7.9)		69 (2.71)	24	0,18 (0.40)
VUR12	1-1/16-12 UN	90 (23.8)		88,5 (3.48)	35	0,45 (1)
VUR16	1-5/16-12 UN	150 (39.6)	350 (5075)	110 (4.33)	41	0,73 (1.6)
VUR20	1-5/8-12 UN	200 (52.8)		120 (4.72)	55	1,5 (3.43)
VUR24	1-7/8-12 UN	300 (79.2)		138 (5.43)	60	2,5 (5.5)
VUR32	2-1/2-12 UN	430 (113.5)			75	2,9 (6.4)



Schema idraulico - Hydraulic circuit



Codice ordinazione
Ordering code

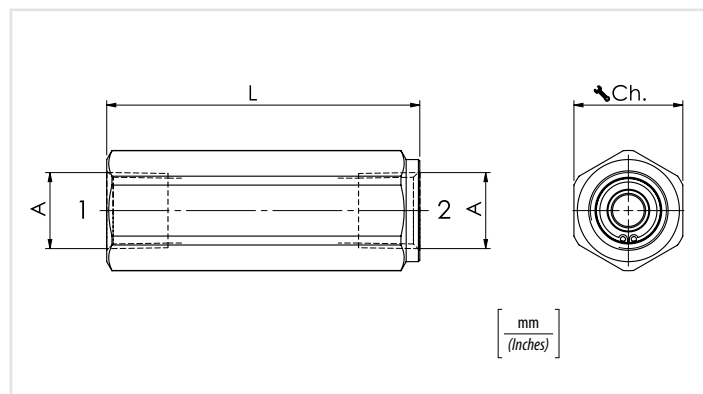
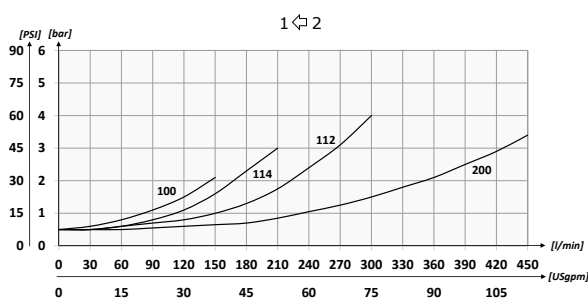
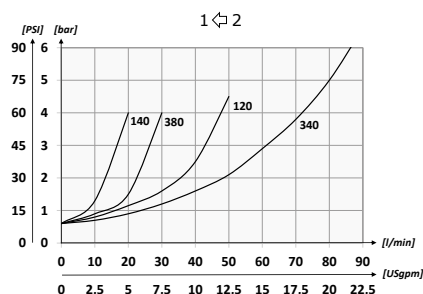
01	02	03	04	05
VUR		N	SP	

01	Valvole unidirezionali a colonnetta F/F (F/F check housing valves)	VUR
02	Dimensione (Size)	1/4 NPTF
		140
		3/8 NPTF
		380
		1/2 NPTF
		120
		3/4 NPTF
		340
03	Filettatura (Thread)	1 NPTF
		100
		1-1/4 NPTF
		114
04	Tenuta (Sealing)	1-1/2 NPTF
		112
05	Molla (Spring)	2 NPTF
		200
		0,5 bar Standard (7.25 PSI)
		0,5
		3 bar (43.5 PSI)
06		3
		4,5 bar (65.25 PSI)
		4,5
07		6 bar (87 PSI)
		6

Dati tecnici - Technical data

Olio idraulico/Mineral oil	ISO 6743/4 (DIN 51524)
Viscosità olio/Oil viscosity	15-250 mm ² /s (15 to 250 cSt)
Classe di contaminazione max con filtro Max contamination index with filter	ISO 4406:1999 Classe 19/17/14
Temperatura dell'olio/Oil temperature	-20°C +80°C -4°F +176°F
Temperatura ambiente/Ambient temperature	-20°C +50°C -4°F +122°F
È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm) It is necessary a filter use to protect the valve (advised filtration 15 µm)	
Trafilamento massimo Max leakage	0,25 cm ³ /min - 5 gocce/min 0,015 in ³ /min - 5 drops/min

Performances

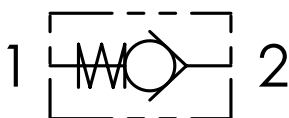


Caratteristiche tecniche - Technical characteristics

Codice Code	A	Portata Max (l/min) Max flow (USgpm)	Pressione max (bar) Max Pressure (PSI)	L	Ch.	Peso approssimativo (kg) Approx weight (lb)
VUR140 N	1/4 NPTF	5 (1.3)	400 (5800)	58 (2.28)	19	0,10 (0.22)
VUR380 N	3/8 NPTF	15 (4)		69 (2.72)	24	0,18 (0.40)
VUR120 N	1/2 NPTF	30 (7.9)		75 (2.95)	27	0,23 (0.50)
VUR340 N	3/4 NPTF	90 (23.8)		88,5 (3.48)	35	0,45 (1)
VUR100 N	1 NPTF	150 (39.6)	350 (5075)	110 (4.33)	41	0,75 (1.7)
VUR114 N	1-1/4 NPTF	200 (52.8)		120 (4.72)	55	1,5 (3.3)
VUR112 N	1-1/2 NPTF	300 (79.2)		138 (5.43)	60	2,6 (5.7)
VUR200 N	2 NPTF	430 (113.5)			75	3 (6.60)

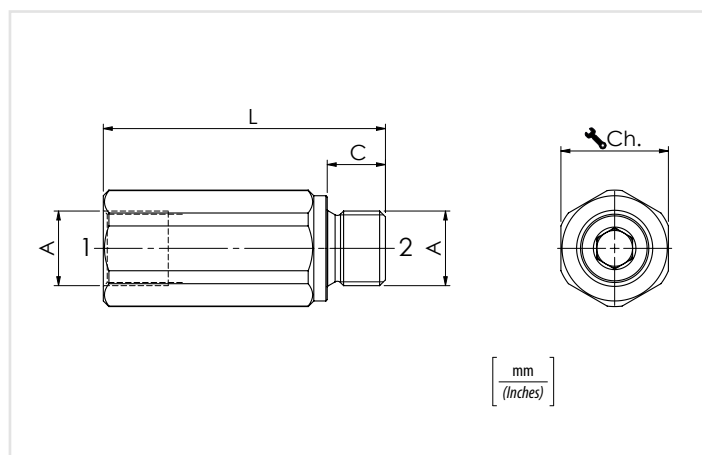


Schema idraulico - Hydraulic circuit



Dati tecnici - Technical data

Olío idraulico/Mineral oil	ISO 6743/4 (DIN 51524)
Viscosità olío/Oil viscosity	15-250 mm ² /s (15 to 250 cSt)
Classe di contaminazione max con filtro Max contamination index with filter	ISO 4406:1999 Classe 19/17/14
Temperatura dell'olío/Oil temperature	-20°C +80°C -4°F + 176°F
Temperatura ambiente/Ambient temperature	-20°C +50°C -4°F + 122°F
È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm) It is necessary a filter use to protect the valve (advised filtration 15 µm)	
Trafilamento massimo Max leakage	0-0,25 cm ³ /min. - 5 gocce/min. 0-0,015 in ³ /min. - 5 drops/min.

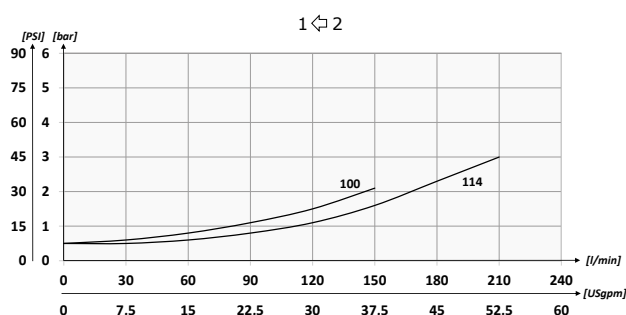
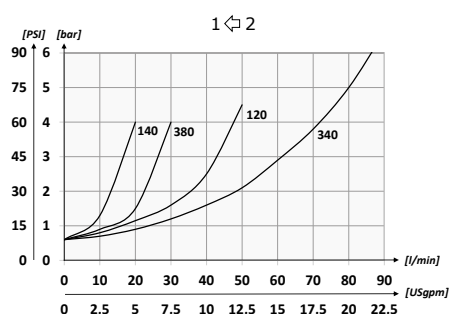


Codice ordinazione Ordering code

01	02	03	04
VMF			

01	Valvole unidirezionali a colonnetta M/F (M/F check housing valves)	VMF
02	Dimensione (Size)	
	BSPP1/4	140
	BSPP3/8	380
	BSPP1/2	120
	BSPP3/4	340
	BSPP1	100
	BSPP1-1/4	114
03	Tenuta (Sealing)	
	Tenuta a sfera solo per VMF140/380/120 (Ball sealing only for VMF140/380/120)	SF
	Tenuta a cono (Poppet sealing)	SP
04	Molla (Spring)	
	1 bar Standard (14.5 PSI)	1
	3 bar (43.5 PSI)	3
	4,5 bar (65 PSI)	4,5
	6 bar (87 PSI)	6

Performances

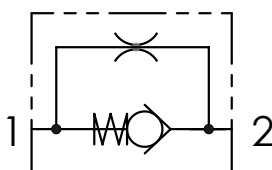


Caratteristiche tecniche - Technical characteristics

Codice Code	A	Portata Max (l/min.) Max flow (USgpm)	Pressione max (bar) Max Pressure (PSI)	L	C	Ch.	Peso approssimativo(kg) Approx weight (lb)
VMF140	BSPP1/4	15 (4)	400 (5800)	50 (1.96)	11 (0.43)	19 (0.75)	0,08 (0.18)
VMF380	BSPP3/8	30 (8)		63 (2.48)	13 (0.51)	24 (0.94)	0,16 (0.35)
VMF120	BSPP1/2	50 (13)		70 (2.75)	14 (0.55)	27 (1.06)	0,20 (0.44)
VMF340	BSPP3/4	90 (23)		82 (3.23)	17 (0.67)	35 (1.38)	0,39 (0.86)
VMF100	BSPP1	150 (40)	350 (5075)	100,5 (3.95)	19 (0.75)	41 (1.61)	0,63 (1.38)
VMF114	BSPP1-1/4	200 (50)		114 (4.49)	20 (0.78)	55 (2.16)	1,29 (2.84)

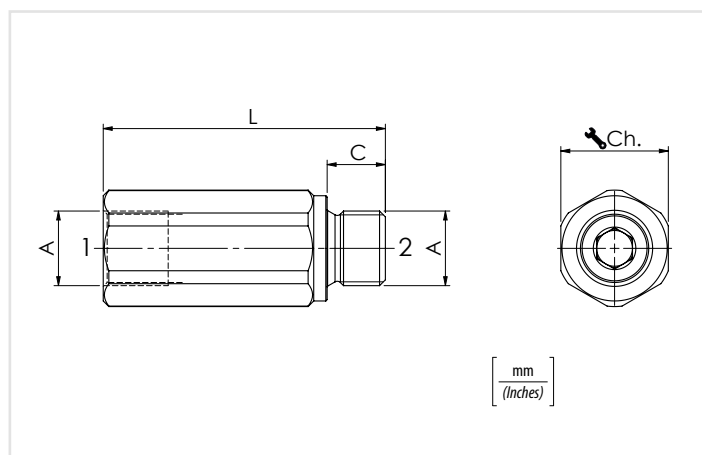


Schema idraulico - Hydraulic circuit



Dati tecnici - Technical data

Olío idraulico/Mineral oil	ISO 6743/4 (DIN 51524)	
Viscosità olio/Oil viscosity	15-250 mm ² /s (15 to 250 cSt)	
Classe di contaminazione max con filtro Max contamination index with filter	ISO 4406:1999 Classe 19/17/14	
Temperatura dell'olio/Oil temperature	-20°C +80°C	-4°F +176°F
Temperatura ambiente/Ambient temperature	-20°C +50°C	-4°F +122°F
È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm) It is necessary a filter use to protect the valve (advised filtration 15 µm)		
Trafilamento massimo Max leakage	0-0,25 cm ³ /min. - 5 gocce/min.	0-0,015 in ³ /min. - 5 drops/min.

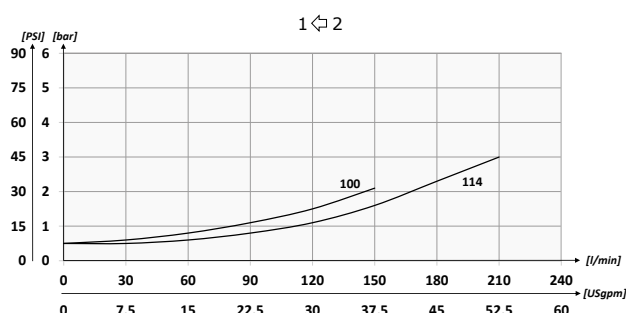
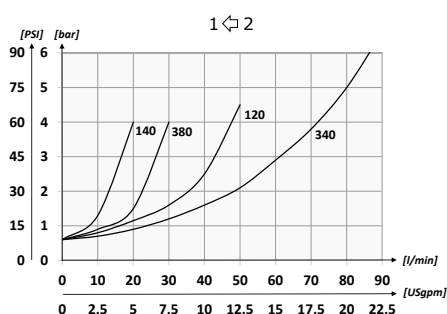


Codice ordinazione Ordering code

01	02	03	04	05
VMF		SP		

01	Valvole unidirezionali a colonnetta M/F (M/F check housing valves)	VMF
02	Dimensione (Size)	
	BSPP1/4	140
	BSPP3/8	380
	BSPP1/2	120
	BSPP3/4	340
	BSPP1	100
	BSPP1-1/4	114
03	Tenuta (Sealing)	Tenuta a cono (Poppet sealing) SP
04	Molla (Spring)	
	1 bar Standard (14.5 PSI)	1
	3 bar (43.5 PSI)	3
	4,5 bar (65 PSI)	4,5
	6 bar (87 PSI)	6
05	Foro di strozzatura (Restriction hole)	Indicare il diametro del foro. Esempio: VMF380SP1 con foro Ø 1,5 mm Cod. VMF380SP1-1,5 State the hole diameter Example: VMF380SP1-1,5 with Ø 0,06 in hole Cod. VMF380SP1-1,5

Performances



Caratteristiche tecniche - Technical characteristics

Codice Code	A	Portata Max (l/min.) Max flow (USgpm)	Pressione max (bar) Max Pressure (PSI)	L	C	Ch.	Peso approssimativo(kg) Approx weight (lb)
VMF140	BSPP1/4	15 (4)	400 (5800)	50 (1.96)	11 (0.43)	19 (0.75)	0,08 (0.18)
VMF380	BSPP3/8	30 (8)		63 (2.48)	13 (0.51)	24 (0.94)	0,16 (0.35)
VMF120	BSPP1/2	50 (13)		70 (2.75)	14 (0.55)	27 (1.06)	0,20 (0.44)
VMF340	BSPP3/4	90 (23)		82 (3.23)	17 (0.67)	35 (1.38)	0,39 (0.86)
VMF100	BSPP1	150 (40)	350 (5075)	100,5 (3.95)	19 (0.75)	41 (1.61)	0,63 (1.38)
VMF114	BSPP1-1/4	200 (50)		114 (4.49)	20 (0.78)	55 (2.16)	1,29 (2.84)

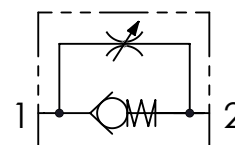


Tenuta a sfera solo per VURF 140/380/120
Ball sealing only for VURF 140/380/120

Codice ordinazione Ordering code	01	02
	VURF	

01	Valvole di controllo flusso unidirezionali (Unidirectional flow control valves)	VURF
02	Dimensione (Size)	BSPP1/4
		140
		BSPP3/8
		380
		BSPP1/2
		120
		BSPP3/4
		340
		BSPP1
		100

Schema idraulico - Hydraulic circuit



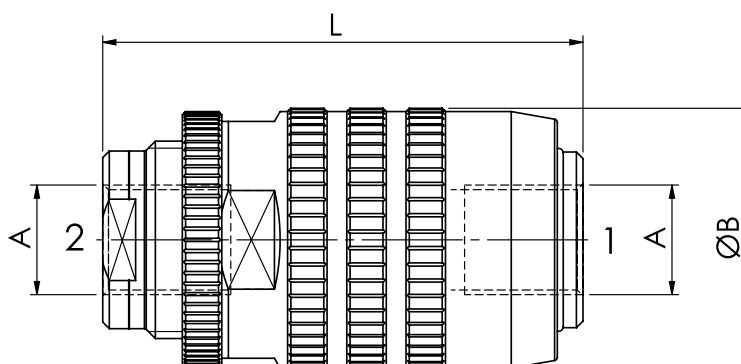
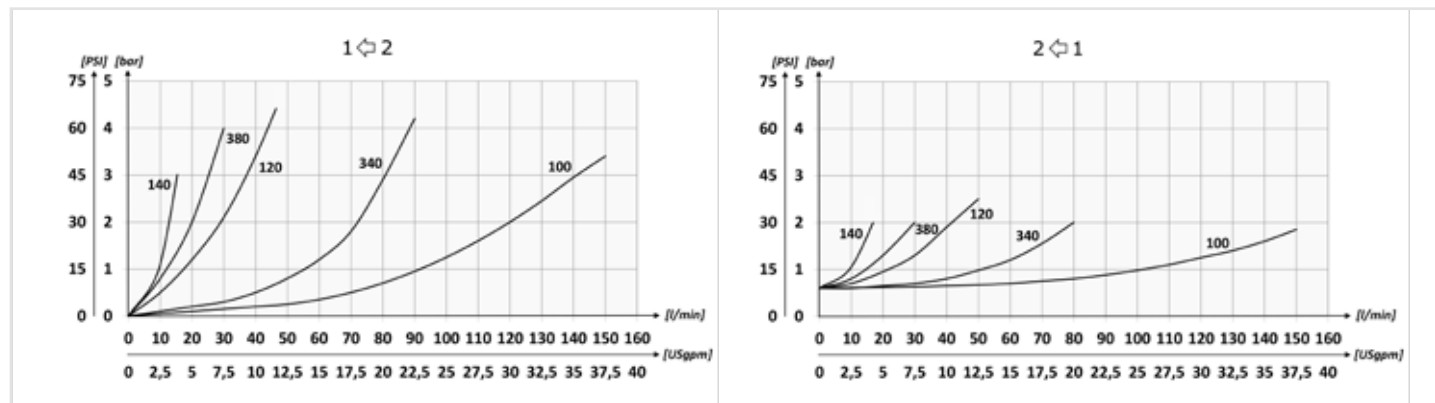
Dati tecnici - Technical data

Olio idraulico/Mineral oil	ISO 6743/4 (DIN 51524)	
Viscosità olio/Oil viscosity	15-250 mm ² /s (15 to 250 cSt)	
Classe di contaminazione max con filtro Max contamination index with filter	ISO 4406:1999 Classe 19/17/14	
Temperatura dell'olio/Oil temperature	-20°C +80°C	-4°F + 176°F
Temperatura ambiente/Ambient temperature	-20°C +50°C	-4°F + 122°F
È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm) It is necessary a filter use to protect the valve (advised filtration 15 µm)		

Caratteristiche tecniche - Technical characteristics

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	BSPP1/4	15 (4)	350 (5075)	34 (1.34)	62 (2.44)	0,28 (0.6)
VURF 380	BSPP3/8	30 (7.9)		39 (1.54)	73 (2.87)	0,46 (1.01)
VURF 120	BSPP1/2	45 (11.9)		44 (1.73)	83 (3.27)	0,66 (1.45)
VURF 340	BSPP3/4	85 (22.4)	300 (4350)	54 (2.13)	102 (4.02)	1,10 (2.42)
VURF 100	BSPP1	150 (39.6)	250 (3625)	65 (2.56)	124,5 (4.90)	1,9 (4.20)

Performances



mm
(Inches)



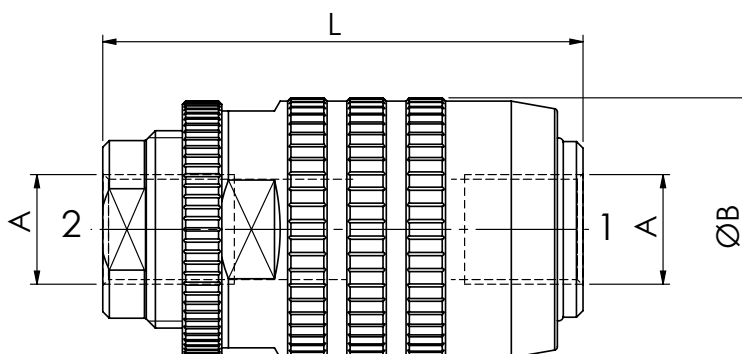
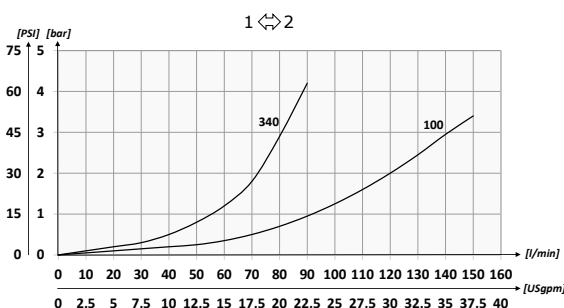
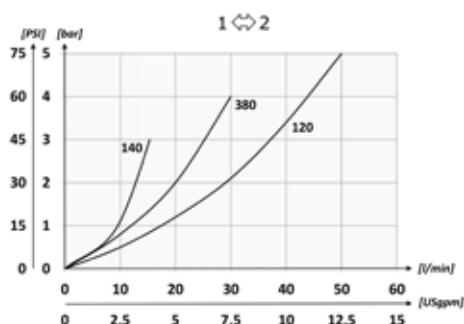
Schema idraulico - Hydraulic circuit



Dati tecnici - Technical data

Olío idraulico/Mineral oil	ISO 6743/4 (DIN 51524)		
Viscosità olio/Oil viscosity	15-250 mm²/s (15 to 250 cSt)		
Classe di contaminazione max con filtro <i>Max contamination index with filter</i>	ISO 4406:1999 Classe 19/17/14		
Temperatura dell'olio/Oil temperature	-20°C +80°C	-4°F + 176°F	
Temperatura ambiente/Ambient temperature	-20°C +50°C	-4°F + 122°F	
È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm) <i>It is necessary a filter use to protect the valve (advised filtration 15 µm)</i>			

Performances



[mm
(Inches)]

01	02
VBRF	

Codice ordinazione
Ordering code

01	Valvole di controllo flusso bidirezionali (Bidirectional flow control valves)		VBRF
02	Dimensione (Size)	BSPP1/4	140
		BSPP3/8	380
		BSPP1/2	120
		BSPP3/4	340
		BSPP1	100

Caratteristiche tecniche - Technical characteristics

Codice Code	A	Portata max Max flow l/min-USgpm	Pressione max Max pressure bar/PSI	B	L	Peso approssimativo Approx weight kg/lb
VBRF 140	BSPP1/4	15 (4)	350 (5075)	34 (1.34)	62 (2.44)	0,28 (0.6)
VBRF 380	BSPP3/8	30 (7.9)		39 (1.54)	73 (2.87)	0,45 (1)
VBRF 120	BSPP1/2	45 (11.9)		44 (1.73)	83 (3.27)	0,63 (1.4)
VBRF 340	BSPP3/4	85 (22.4)	300 (4350)	54 (2.13)	102 (4.02)	1,06 (2.33)
VBRF 100	BSPP1	150 (39.6)	250 (3625)	65 (2.56)	124,5 (4.90)	1,8 (4)

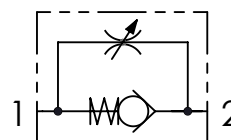


Tenuta a sfera solo per STU180/140/380/120
Ball sealing only for STU180/140/380/120

Codice ordinazione Ordering code	01	02
	STU	

01	Valvole di controllo flusso unidirezionali (Unidirectional flow control valves)	STU
02	Dimensione (Size)	
	BSPP1/8	180
	BSPP1/4	140
	BSPP3/8	380
	BSPP1/2	120
	BSPP3/4	340
	BSPP1	100
	BSPP1-1/4	114
	BSPP1-1/2	112

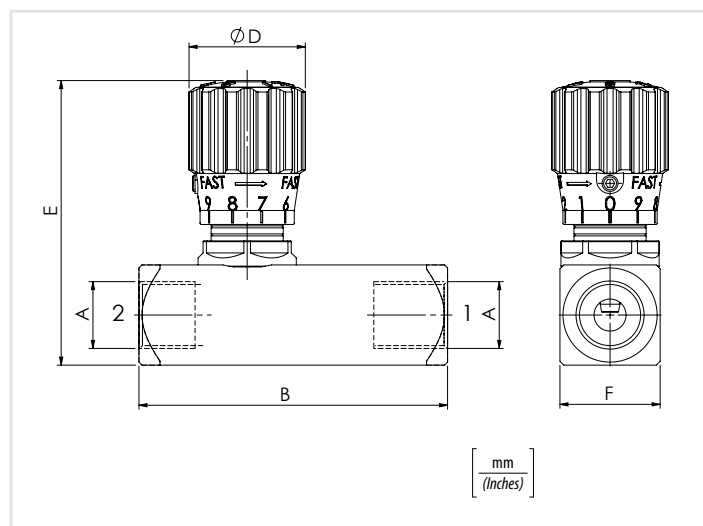
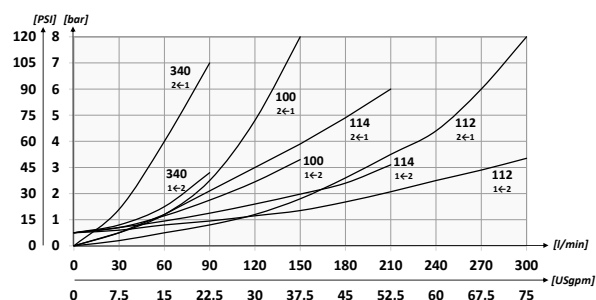
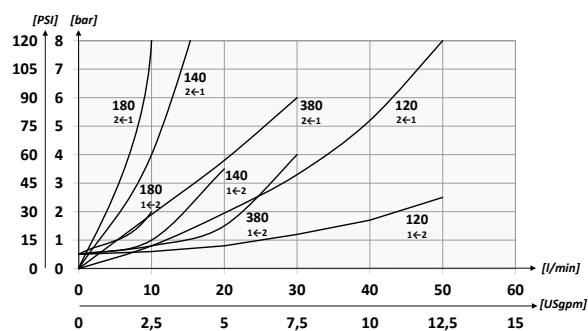
Schema idraulico - Hydraulic circuit



Dati tecnici - Technical data

Olio idraulico/Mineral oil	ISO 6743/4 (DIN 51524)
Viscosità olio/Oil viscosity	15-250 mm ² /s (15 to 250 cSt)
Classe di contaminazione max con filtro Max contamination index with filter	ISO 4406:1999 Classe 19/17/14
Temperatura dell'olio/Oil temperature	-20°C +80°C -4°F +176°F
Temperatura ambiente/Ambient temperature	-20°C +50°C -4°F +122°F
È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm) It is necessary a filter use to protect the valve (advised filtration 15 µm)	

Performances



Caratteristiche tecniche - Technical characteristics

Codice Code	A	Portata max (l/min) Max flow (USgpm)	Pressione max (bar) Max pressure (PSI)	B	D	E	F	Peso approssimativo Approx weight kg/lb
STU180	BSPP1/8	10 (2.6)	400 (5800)	58 (2.28)	20 (0.79)	53 (2.09)	20 (0.79)	0,19 (0.42)
STU140	BSPP1/4	15 (4)		66 (2.60)	30 (1.18)	71,5 (2.81)	25 (0.98)	0,34 (0.75)
STU380	BSPP3/8	30 (7.9)		77 (3.03)				0,36 (0.80)
STU120	BSPP1/2	50 (13.2)		91 (3.58)	33 (1.30)	72 (2.83)	30 (1.18)	0,60 (1.3)
STU340	BSPP3/4	80 (21.1)		112,5 (4.43)	42 (1.65)	94 (3.70)	40 (1.57)	1,33 (3)
STU100	BSPP1	150 (39.6)		141 (5.55)				1,83 (4.03)
STU114	BSPP1-1/4	200 (52.8)	350 (5075)	155 (6.10)	53 (2.09)	121,5 (4.78)	55 (2.17)	3,1 (6.8)
STU112	BSPP1-1/2	300 (79.2)		168 (6.61)				4,5 (10)



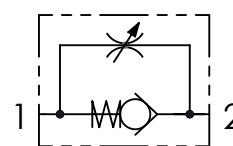
Tenuta a sfera solo per STU180/140/380/120
Ball sealing only for STU180/140/380/120

Codice ordinazione
Ordering code

01	02
STUF	

01	Valvole di controllo flusso unidirezionali (Unidirectional flow control valves)	STUF
02	Dimensione (Size)	
	BSPP1/8	180
	BSPP1/4	140
	BSPP3/8	380
	BSPP1/2	120
	BSPP3/4	340
	BSPP1	100
	BSPP1-1/4	114
	BSPP1-1/2	112

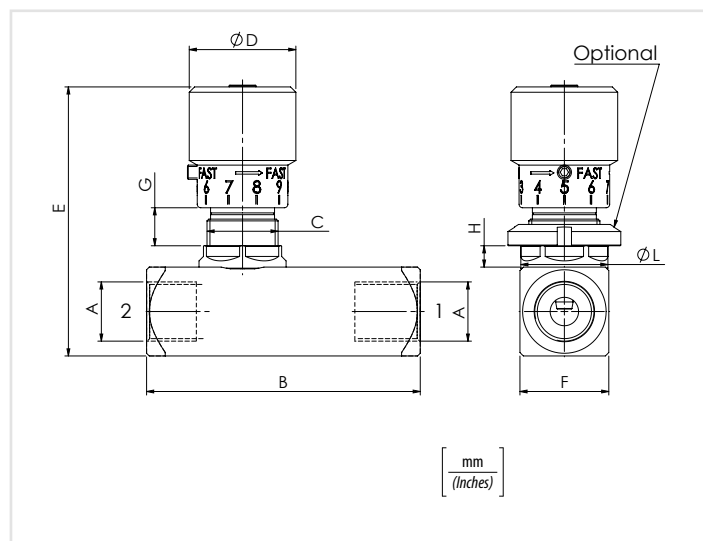
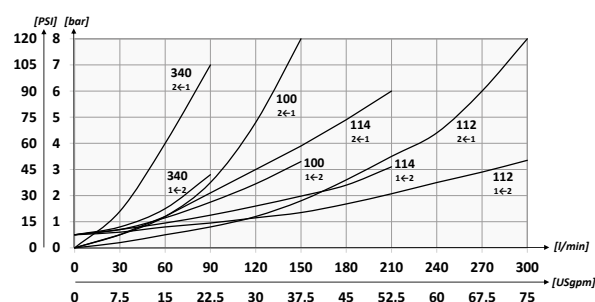
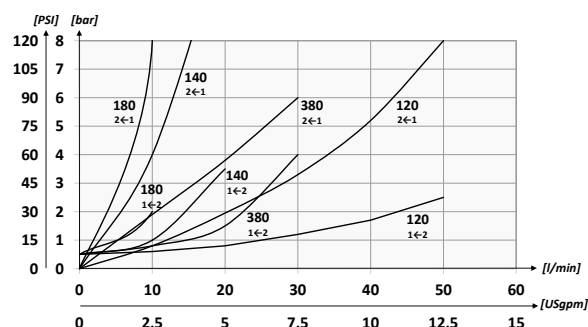
Schema idraulico - Hydraulic circuit



Dati tecnici - Technical data

Olio idraulico/Mineral oil	ISO 6743/4 (DIN 51524)	
Viscosità olio/Oil viscosity	15-250 mm ² /s (15 to 250 cSt)	
Classe di contaminazione max con filtro Max contamination index with filter	ISO 4406:1999 Classe 19/17/14	
Temperatura dell'olio/Oil temperature	-20°C +80°C	-4°F + 176°F
Temperatura ambiente/Ambient temperature	-20°C +50°C	-4°F + 122°F
È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm) It is necessary a filter use to protect the valve (advised filtration 15 µm)		

Performances

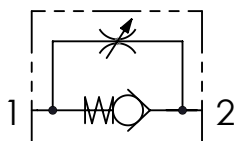


Caratteristiche tecniche - Technical characteristics

Codice Code	A	Portata max (l/min) Max flow (USgpm)	Pressione max (bar) Max pressure (PSI)	B	C	D	E	F	G	H	L	Optional Code	Peso approssimativo Approx weight kg/lb
STUF180	BSPP1/8	10 (2.6)	400 (5800)	58 (2.28)	M15x1	20 (0.79)	60,5 (2.38)	20 (0.79)	8 (0.31)	5,5 (0.21)	19,5 (0.76)	84100031	0,20 (0.44)
STUF140	BSPP1/4	15 (4)		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)
STUF380	BSPP3/8	30 (7.9)		77 (3.03)		33 (1.30)	81 (3.19)	30 (1.18)	9 (0.35)	7 (0.27)	29,5 (1.16)	84100023	0,63 (1.40)
STUF120	BSPP1/2	50 (13.2)		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)
STUF340	BSPP3/4	80 (21.1)		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)
STUF100	BSPP1	150 (39.6)	350 (5075)	141 (5.55)		53 (2.09)	115 (4.53)	45 (1.77)					2 (4.4)
STUF114	BSPP1-1/4	200 (52.8)		155 (6.10)	M45x1,5	53 (2.09)	137 (5.39)	55 (2.17)	13,5 (0.53)	10 (0.39)	50 (1.96)	84100030	3,3 (7.25)
STUF112	BSPP1-1/2	300 (79.2)		168 (6.61)			147 (5.79)	65 (2.56)					4,7 (10.3)

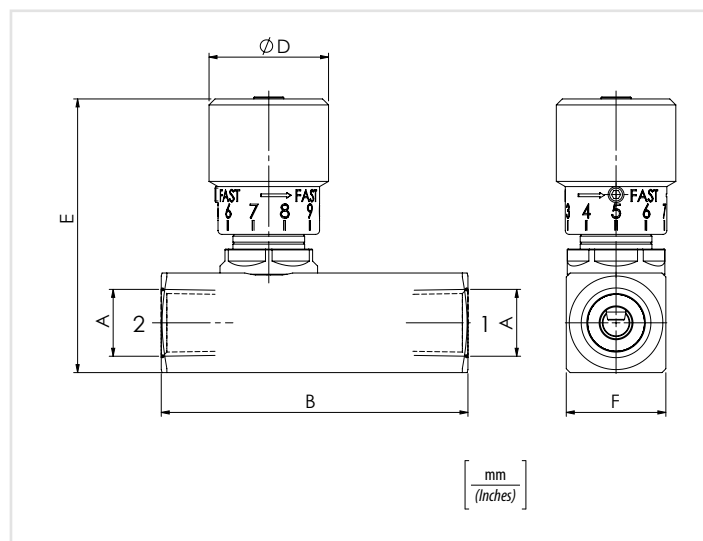


Schema idraulico - Hydraulic circuit



Dati tecnici - Technical data

Olio idraulico/Mineral oil	ISO 6743/4 (DIN 51524)
Viscosità olio/Oil viscosity	15-250 mm ² /s (15 to 250 cSt)
Classe di contaminazione max con filtro Max contamination index with filter	ISO 4406:1999 Classe 19/17/14
Temperatura dell'olio/Oil temperature	-20°C +80°C -4°F +176°F
Temperatura ambiente/Ambient temperature	-20°C +50°C -4°F +122°F
È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm) It is necessary a filter use to protect the valve (advised filtration 15 µm)	

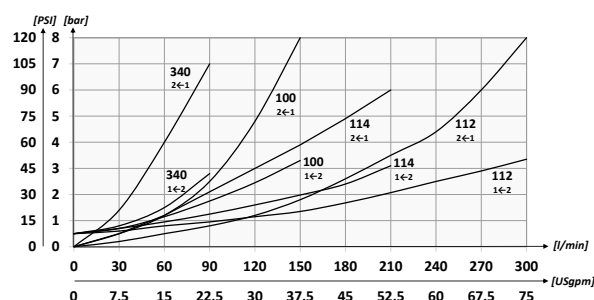
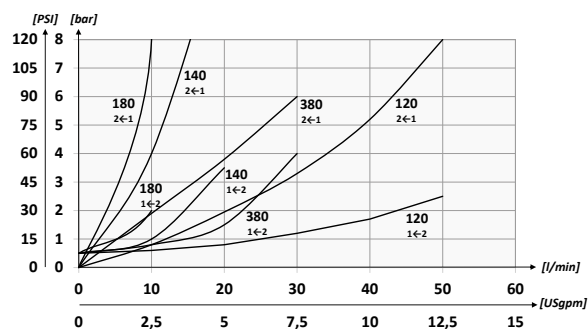


Codice ordinazione Ordering code

01	02	03
STU		N

01	Valvole di controllo flusso unidirezionali (Unidirectional flow control valves)	STU
02	Dimensione (Size)	
	NPTF 1/8	180
	NPTF 1/4	140
	NPTF 3/8	380
	NPTF 1/2	120
	NPTF 3/4	340
	NPTF 1	100
	NPTF 1-1/4	114
	NPTF 1-1/2	112
03	Filettatura (Thread)	NPTF

Performances

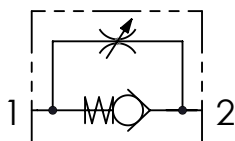


Caratteristiche tecniche - Technical characteristics

Codice Code	A	Portata max (l/min) Max flow (USgpm)	Pressione max (bar) Max pressure (PSI)	B	D	E	F	Peso approssimativo Approx weight kg/lb
STU180N	NPTF 1/8	10 (2.6)	400 (5800)	58 (2.28)	20 (0.79)	53 (2.08)	20 (0.79)	0,19 (0.42)
STU140N	NPTF 1/4	15 (4)		66 (2.60)	30 (1.18)	68 (2.68)	25 (0.98)	0,37 (0.75)
STU380N	NPTF 3/8	30 (7.9)		77 (3.03)				0,40 (0.9)
STU120N	NPTF 1/2	50 (13.2)		91 (3.58)	33 (1.30)	72 (2.83)	30 (1.18)	0,60 (1.3)
STU340N	NPTF 3/4	80 (21.1)		112,5 (4.43)	42 (1.65)	94 (3.70)	40 (1.57)	1,40 (3.09)
STU100N	NPTF 1	150 (39.6)		141 (5.55)		99 (3.90)	45 (1.77)	1,9 (4.2)
STU114N	NPTF 1-1/4	200 (52.8)	350 (5075)	155 (6.10)	53 (2.09)	121,5 (4.78)	55 (2.17)	3,06 (6.73)
STU112N	NPTF 1-1/2	300 (79.2)		168 (6.61)		131,5 (5.17)	65 (2.56)	4,5 (10)

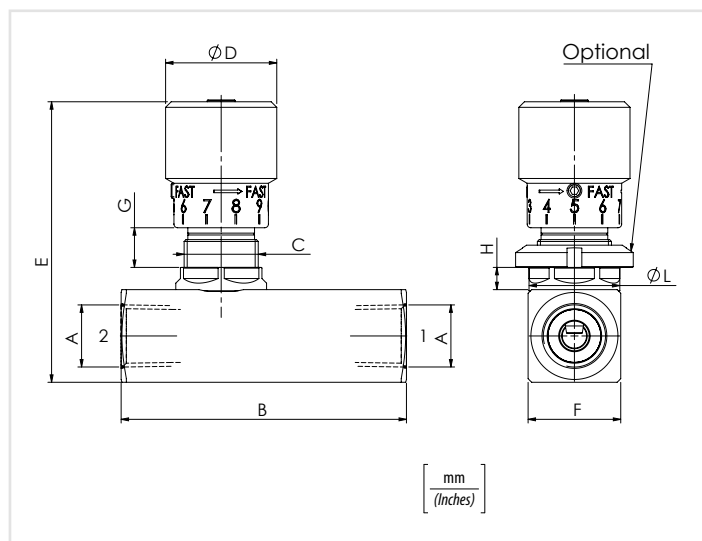


Schema idraulico - Hydraulic circuit



Dati tecnici - Technical data

Olio idraulico/Mineral oil	ISO 6743/4 (DIN 51524)
Viscosità olio/Oil viscosity	15-250 mm ² /s (15 to 250 cSt)
Classe di contaminazione max con filtro Max contamination index with filter	ISO 4406:1999 Classe 19/17/14
Temperatura dell'olio/Oil temperature	-20°C +80°C -4°F +176°F
Temperatura ambiente/Ambient temperature	-20°C +50°C -4°F +122°F
È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm) It is necessary a filter use to protect the valve (advised filtration 15 µm)	

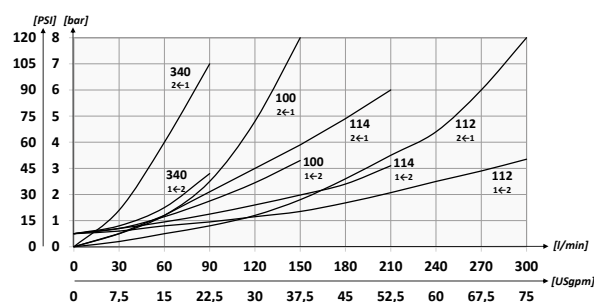
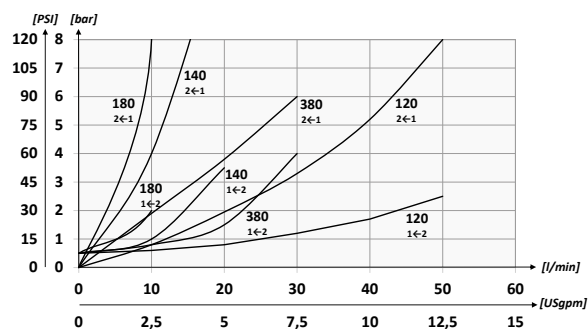


Codice ordinazione Ordering code

01	02	03
STUF		N

01	Valvole di controllo flusso unidirezionali (Unidirectional flow control valves)	STUF
02	Dimensione (Size)	
	NPTF 1/8	180
	NPTF 1/4	140
	NPTF 3/8	380
	NPTF 1/2	120
	NPTF 3/4	340
	NPTF 1	100
	NPTF 1-1/4	114
	NPTF 1-1/2	112
03	Filettatura (Thread)	NPTF
		N

Performances

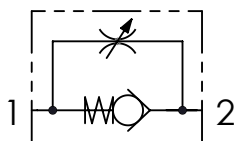


Caratteristiche tecniche - Technical characteristics

Codice Code	A	Portata max (l/min) Max flow (USgpm)	Pressione max (bar) Max pressure (PSI)	B	C	D	E	F	G	H	L	Optional Code	Peso approssimativo Approx weight kg/lb
STUF180N	NPTF 1/8	10 (2.6)	400 (5800)	58 (2.28)	M15x1	20 (0.79)	60,5 (2.38)	20 (0.79)	8 (0.31)	5,5 (0.22)	19,5 (0.77)	84100031	0,20 (0.44)
STUF140N	NPTF 1/4	15 (4)		66 (2.60)	M20x1	30 (1.18)	75 (2.95)	25 (0.98)	7,5 (0.30)	6 (0.24)	24,5 (0.96)	84100022	0,40 (0.88)
STUF380N	NPTF 3/8	30 (7.9)		77 (3.03)									0,42 (0.92)
STUF120N	NPTF 1/2	50 (13.2)		91 (3.58)	M25x1,5	33 (1.30)	81 (3.19)	30 (1.18)	9 (0.35)	7 (0.28)	29,5 (1.16)	84100023	0,63 (1.40)
STUF340N	NPTF 3/4	80 (21.1)		112,5 (4.43)	M35x1,5	42 (1.65)	110 (4.33)	40 (1.57)	15,5 (0.61)	8 (0.31)	39,5 (1.56)	84100024	1,5 (3.3)
STUF100N	NPTF 1	150 (39.6)	350 (5075)	141 (5.55)			115 (4.53)	45 (1.77)					2 (4.4)
STUF114N	NPTF 1-1/4	200 (52.8)		155 (6.10)	M45x1,5	53 (2.09)	137 (5.39)	55 (2.17)	13,5 (0.53)	10 (0.39)	50 (1.97)	84100030	3,2 (7.05)
STUF112N	NPTF 1-1/2	300 (79.2)		168 (6.61)			147 (5.79)	65 (2.56)					4,7 (10.3)

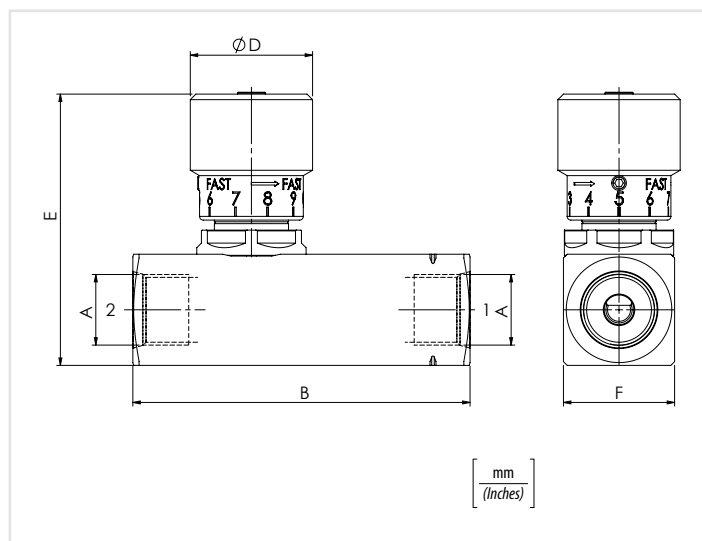


Schema idraulico - Hydraulic circuit



Dati tecnici - Technical data

Olio idraulico/Mineral oil	ISO 6743/4 (DIN 51524)
Viscosità olio/Oil viscosity	15-250 mm ² /s (15 to 250 cSt)
Classe di contaminazione max con filtro Max contamination index with filter	ISO 4406:1999 Classe 19/17/14
Temperatura dell'olio/Oil temperature	-20°C +80°C -4°F +176°F
Temperatura ambiente/Ambient temperature	-20°C +50°C -4°F +122°F
È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm) It is necessary a filter use to protect the valve (advised filtration 15 µm)	



Caratteristiche tecniche - Technical characteristics

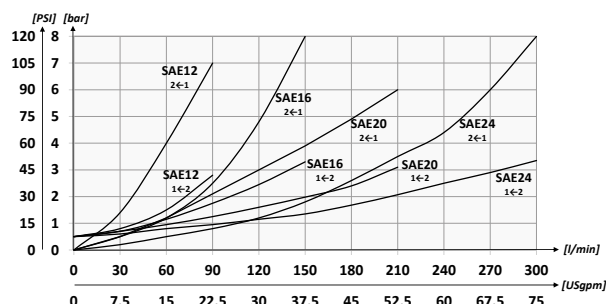
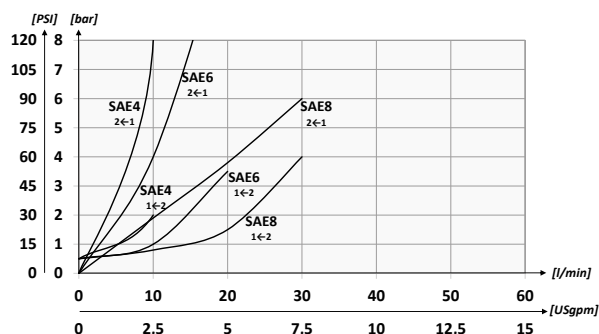
Codice Code	A	Portata max (l/min) Max flow (USgpm)	Pressione max (bar) Max pressure (PSI)	B	D	E	F	Peso approssimativo Approx weight kg/lb
STU4	7/16-20UNF	15 (4)	400 (5800)	66 (2.60)	30 (1.18)	68 (2.68)	25 (0.98)	0,39 (0.85)
STU6	9/16 18UNF	30 (7.9)		70,5 (2.78)				0,40 (0.9)
STU8	3/4-16UNF	50 (13.2)		91 (3.58)	33 (1.30)	72 (2.83)	30 (1.18)	0,60 (1.3)
STU12	1-1/16-12UN	80 (21.1)		112,5 (4.43)	42 (1.65)	94 (3.70)	40 (1.57)	1,28 (2.80)
STU16	1-5/16-12UN	150 (39.6)	350 (5075)	141 (5.55)		99 (3.90)	45 (1.77)	1,87 (4.11)
STU20	1-5/8-12UN	200 (52.8)		155 (6.10)	53 (2.09)	121,5 (4.78)	55 (2.17)	3,06 (6.73)
STU24	1-7/8-12UN	300 (79.2)		168 (6.61)		131,5 (5.18)	65 (2.56)	4,5 (10)

Codice ordinazione Ordering code

01	02
STU	

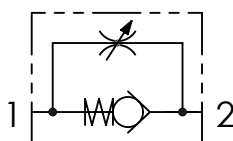
01	Valvole di controllo flusso unidirezionali (Unidirectional flow control valves)	STU
02	Dimensione (Size)	
	7/16-20UNF	4
	9/16 18UNF	6
	3/4-16UNF	8
	1-1/16-12UN	12
	1-5/16-12UN	16
	1-5/8-12UN	20
	1-7/8-12UN	24

Performances



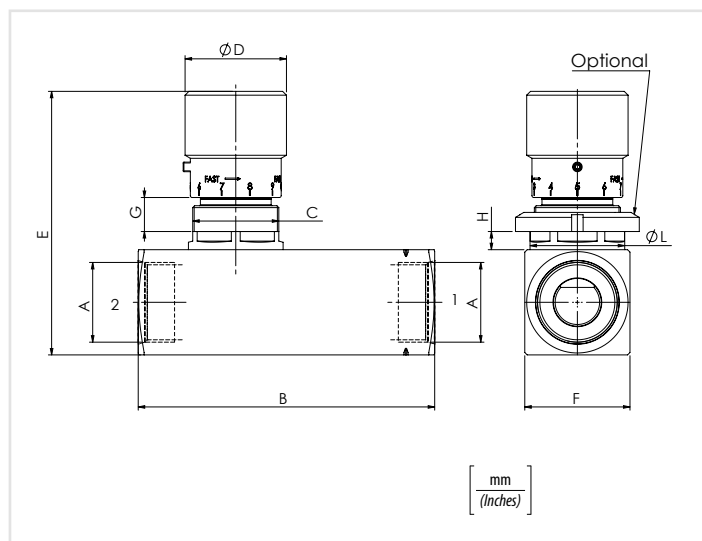


Schema idraulico - Hydraulic circuit

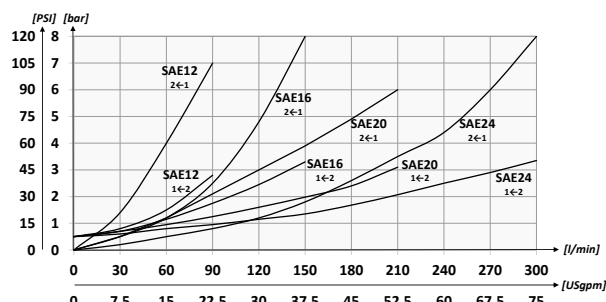
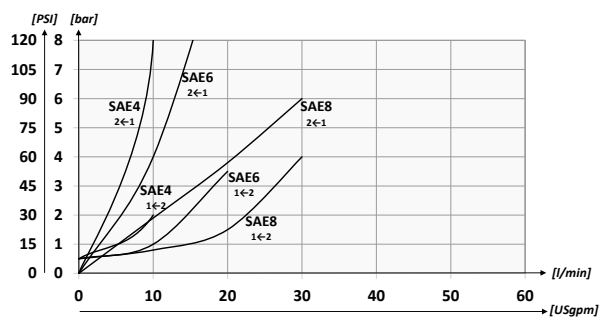


Dati tecnici - Technical data

Olio idraulico/Mineral oil	ISO 6743/4 (DIN 51524)
Viscosità olio/Oil viscosity	15-250 mm ² /s (15 to 250 cSt)
Classe di contaminazione max con filtro Max contamination index with filter	ISO 4406:1999 Classe 19/17/14
Temperatura dell'olio/Oil temperature	-20°C +80°C -4°F +176°F
Temperatura ambiente/Ambient temperature	-20°C +50°C -4°F +122°F
È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm) It is necessary a filter use to protect the valve (advised filtration 15 µm)	



Performances

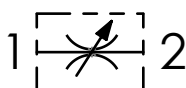


Caratteristiche tecniche - Technical characteristics

Codice Code	A	Portata max (l/min) Max flow (USgpm)	Pressione max (bar) Max pressure (PSI)	B	C	D	E	F	G	H	L	Optional Code	Peso approssimativo Approx weight kg/lb
STUF4	7/16-20UNF	15 (4)	400 (5800)	66 (2.60)	M20x1	30 (1.18)	75 (2.95)	25 (0.98)	7,5 (0.30)	6 (0.24)	24,5 (0.96)	84100022	0,41 (0.90)
STUF6	9/16 18UNF	30 (7.9)		70,5 (2.78)									0,42 (0.92)
STUF8	3/4-16UNF	50 (13.2)		91 (3.58)	M25x1,5	33 (1.30)	81 (3.19)	30 (1.18)	9 (0.35)	7 (0.28)	29,5 (1.16)	84100023	0,63 (1.40)
STUF12	1-1/16-12UN	80 (21.1)	350 (5075)	112,5 (4.43)	M35x1,5	42 (1.65)	110 (4.33)	40 (1.57)	15,5 (0.61)	8 (0.31)	39,5 (1.56)	84100024	1,40 (3.10)
STUF16	1-5/16-12UN	150 (39.6)		141 (5.55)									2 (4.4)
STUF20	1-5/8-12UN	200 (52.8)		155 (6.10)	M45x1,5	53 (2.09)	137 (5.39)	55 (2.17)	13,5 (0.53)	10 (0.39)	50 (1.97)	84100030	3,3 (7.25)
STUF24	1-7/8-12UN	300 (79.2)		168 (6.61)									4,7 (10.3)



Schema idraulico - Hydraulic circuit



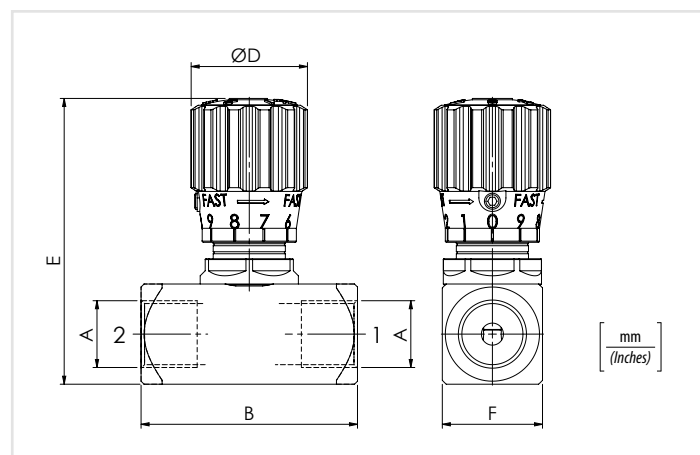
Codice ordinazione
Ordering code

01	02
STB	

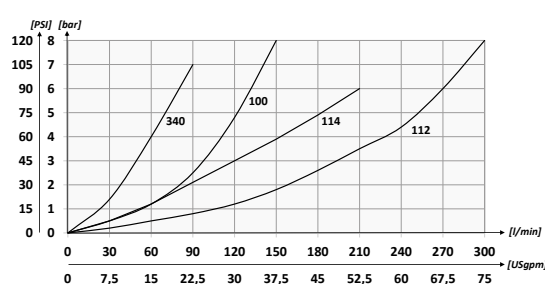
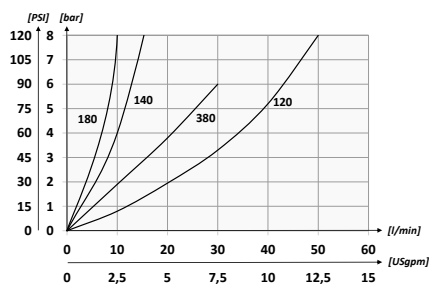
01	Valvole di controllo flusso bidirezionali (Bidirectional flow control valves)	STB
02	Dimensione (Size)	BSPP1/8
		180
		BSPP1/4
		140
		BSPP3/8
		380
		BSPP1/2
		120
		BSPP3/4
		340
		BSPP1
		100
		BSPP1-1/4
		114
		BSPP1-1/2
		112

Dati tecnici - Technical data

olio idraulico/Mineral oil	ISO 6743/4 (DIN 51524)	
Viscosità olio/Oil viscosity	15-250 mm ² /s (15 to 250 cSt)	
Classe di contaminazione max con filtro Max contamination index with filter	ISO 4406:1999 Classe 19/17/14	
Temperatura dell'olio/Oil temperature	-20°C +80°C	-4°F + 176°F
Temperatura ambiente/Ambient temperature	-20°C +50°C	-4°F + 122°F
È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm) It is necessary a filter use to protect the valve (advised filtration 15 µm)		



Performances

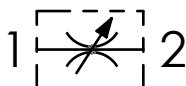


Caratteristiche tecniche - Technical characteristics

Codice Code	A	Portata max (l/min) Max flow (USgpm)	Pressione max (bar) Max pressure (PSI)	B	D	E	F	Peso approssimativo (kg) Approx weight (lb)
STB180	BSPP1/8	10 (2.6)	400 (5800)	44 (1.73)	20 (0.79)	53 (2.09)	20 (0.79)	0,15 (0.33)
STB140	BSPP1/4	15 (4)		54 (2.13)	30 (1.18)	71,5 (2.81)	25 (0.98)	0,29 (0.70)
STB380	BSPP3/8	30 (7.9)		64 (2.52)	33 (1.30)	72 (2.83)	30 (1.18)	0,26 (0.57)
STB120	BSPP1/2	50 (13.2)		81 (3.19)	42 (1.65)	94 (3.70)	40 (1.57)	0,45 (1)
STB340	BSPP3/4	80 (21.1)		102 (4.01)	53 (2.09)	99 (3.90)	45 (1.77)	1,02 (2.25)
STB100	BSPP1	150 (39.6)	350 (5075)			121,5 (4.78)	55 (2.17)	1,38 (3.04)
STB114	BSPP1-1/4	200 (52.8)				131,5 (5.18)	65 (2.56)	2,2 (4.8)
STB112	BSPP1-1/2	300 (79.2)						3 (6.6)



Schema idraulico - Hydraulic circuit

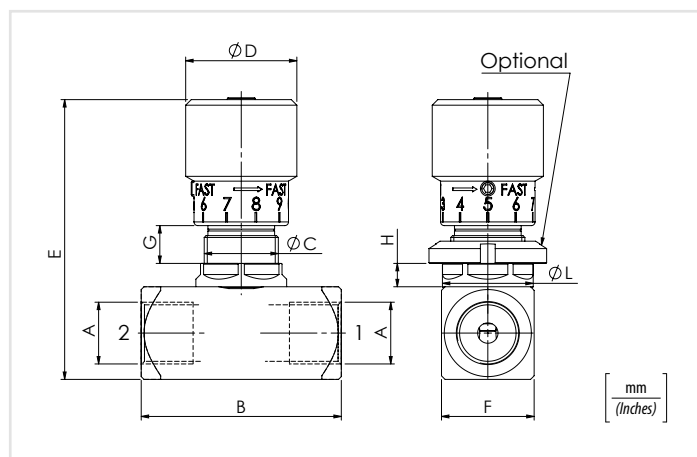


Dati tecnici - Technical data

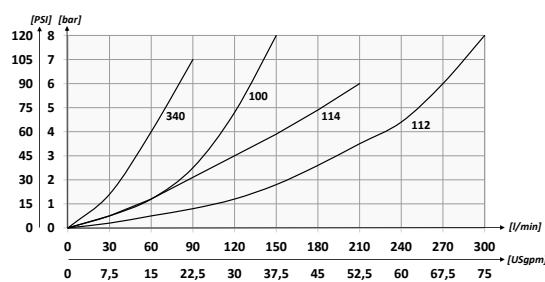
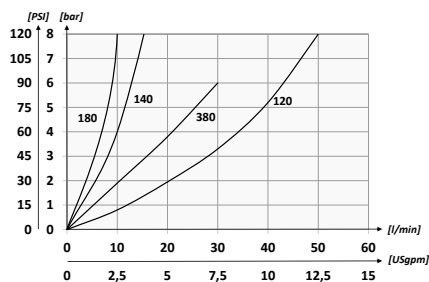
Olio idraulico/Mineral oil	ISO 6743/4 (DIN 51524)		
Viscosità olio/Oil viscosity	15-250 mm²/s (15 to 250 cSt)		
Classe di contaminazione max con filtro <i>Max contamination index with filter</i>	ISO 4406:1999 Classe 19/17/14		
Temperatura dell'olio/Oil temperature	-20°C +80°C	-4°F + 176°F	
Temperatura ambiente/Ambient temperature	-20°C +50°C	-4°F + 122°F	
È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm) <i>It is necessary a filter use to protect the valve (advised filtration 15 µm)</i>			

Codice ordinazione Ordering code	01	02
	STBF	

01	Valvole di controllo flusso bidirezionali (Bidirectional flow control valves)	STBF
02	Dimensione (Size)	
	BSP1/8	180
	BSP1/4	140
	BSP3/8	380
	BSP1/2	120
	BSP3/4	340
	BSP1	100
	BSP1-1/4	114
	BSP1-1/2	112



Performances

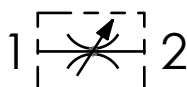


Caratteristiche tecniche - Technical characteristics

Codice Code	A	Portata max (l/min) Max flow (USgpm)	Pressione max (bar) Max pressure (PSI)	B	C	D	E	F	G	H	L	Optional Code	Peso approssimativo (kg) Approx weight (lb)
STBF180	BSP1/8	10 (2.6)	400 (5800)	44 (1.73)	M15x1	20 (0.79)	60,5 (2.38)	20 (0.79)	8 (0.31)	5,5 (0.22)	19,5 (0.77)	84100031	0,16 (0.36)
STBF140	BSP1/4	15 (4)		54 (2.13)	M20x1	30 (1.18)	75 (2.95)	25 (0.98)	7,5 (0.30)	6 (0.24)	24,5 (0.96)	84100022	0,31 (0.68)
STBF380	BSP3/8	30 (7.9)		64 (2.52)	M25x1,5	33 (1.30)	81 (3.19)	30 (1.18)	9 (0.35)	7 (0.28)	29,5 (1.16)	84100023	0,28 (0.62)
STBF120	BSP1/2	50 (13.2)		81 (3.19)	M35x1,5	42 (1.65)	110 (4.33)	40 (1.57)	15,5 (0.61)	8 (0.31)	39,5 (1.56)	84100024	0,48 (1.06)
STBF340	BSP3/4	80 (21.1)		102 (4.01)	M45x1,5	53 (2.09)	115 (4.53)	45 (1.77)	13,5 (0.53)	10 (0.39)	50 (1.97)	84100030	1,13 (2.50)
STBF100	BSP1	150 (39.6)	350 (5075)	102 (4.01)	M45x1,5	53 (2.09)	115 (4.53)	45 (1.77)	13,5 (0.53)	10 (0.39)	50 (1.97)	84100030	1,50 (3.3)
STBF114	BSP1-1/4	200 (52.8)					137 (5.39)	55 (2.17)	13,5 (0.53)	10 (0.39)	50 (1.97)	84100030	2,37 (5.21)
STBF112	BSP1-1/2	300 (79.2)					147 (5.79)	65 (2.56)	13,5 (0.53)	10 (0.39)	50 (1.97)	84100030	3,17 (7)



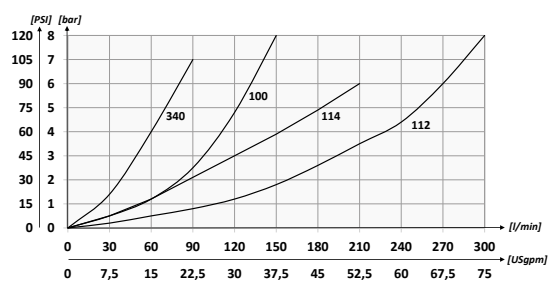
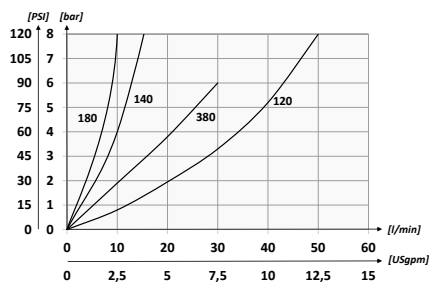
Schema idraulico - Hydraulic circuit



Dati tecnici - Technical data

Olío idraulico/Mineral oil	ISO 6743/4 (DIN 51524)	
Viscosità olio/Oil viscosity	15-250 mm ² /s (15 to 250 cSt)	
Classe di contaminazione max con filtro Max contamination index with filter	ISO 4406:1999 Classe 19/17/14	
Temperatura dell'olio/Oil temperature	-20°C +80°C	-4°F +176°F
Temperatura ambiente/Ambient temperature	-20°C +50°C	-4°F +122°F
È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm) It is necessary a filter use to protect the valve (advised filtration 15 µm)		

Performances

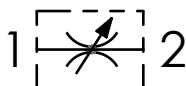


Caratteristiche tecniche - Technical characteristics

Codice Code	A	Portata max (l/min) Max flow (USgpm)	Pressione max (bar) Max pressure (PSI)	B	D	E	F	Peso approssimativo (kg) Approx weight (lb)
STB180N	NPTF 1/8	10 (2.6)	400 (5800)	44 (1.73)	20 (0.79)	53 (2.09)	20 (0.79)	0,15 (0.33)
STB140N	NPTF 1/4	15 (4)		54 (2.13)	30 (1.18)	68 (2.68)	25 (0.98)	0,32 (0.71)
STB380N	NPTF 3/8	30 (7.9)		64 (2.52)	33 (1.30)	72 (2.83)	30 (1.18)	0,30 (0.66)
STB120N	NPTF 1/2	50 (13.2)		81 (3.19)	42 (1.65)	94 (3.70)	40 (1.57)	0,47 (1.03)
STB340N	NPTF 3/4	80 (21.1)		102 (4.02)	53 (2.09)	121,5 (4.78)	55 (2.16)	1,05 (2.31)
STB100N	NPTF 1	150 (39.6)	350 (5075)			99 (3.90)	45 (1.77)	1,49 (3.95)
STB114N	NPTF 1-1/4	200 (52.8)				131,5 (5.18)	65 (2.56)	2,27 (5.21)
STB112N	NPTF 1-1/2	300 (79.2)						3 (6.6)



Schema idraulico - Hydraulic circuit

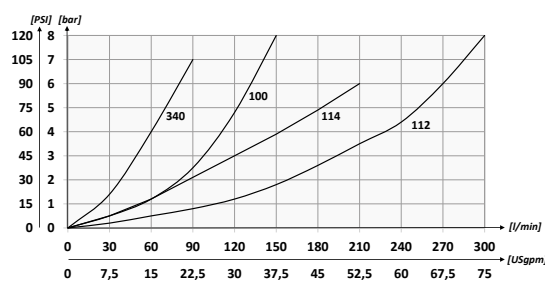
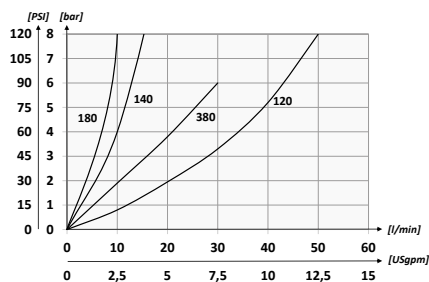


Dati tecnici - Technical data

Olio idraulico/Mineral oil	ISO 6743/4 (DIN 51524)		
Viscosità olio/Oil viscosity	15-250 mm²/s (15 to 250 cSt)		
Classe di contaminazione max con filtro Max contamination index with filter	ISO 4406:1999 Classe 19/17/14		
Temperatura dell'olio/Oil temperature	-20°C +80°C	-4°F + 176°F	
Temperatura ambiente/Ambient temperature	-20°C +50°C	-4°F + 122°F	

È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)

Performances

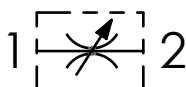


Caratteristiche tecniche - Technical characteristics

Codice Code	A	Portata max (l/min) Max flow (USgpm)	Pressione max (bar) Max pressure (PSI)	B	C	D	E	F	G	H	L	Optional Code	Peso approssimativo (kg) Approx weight (lb)
STBF180N	NPTF 1/8	10 (2.6)	400 (5800)	44 (1.73)	M15x1	20 (0.79)	60,5 (2.38)	20 (0.79)	8 (0.31)	5,5 (0.22)	19,5 (0.77)	84100031	0,16 (0.36)
STBF140N	NPTF 1/4	15 (4)		54 (2.13)	M20x1	30 (1.18)	75 (2.95)	25 (0.98)	7,5 (0.30)	6 (0.24)	24,5 (0.96)	84100022	0,34 (0.75)
STBF380N	NPTF 3/8	30 (7.9)		64 (2.52)	M25x1,5	33 (1.30)	81 (3.19)	30 (1.18)	9 (0.35)	7 (0.28)	29,5 (1.16)	84100023	0,32 (0.71)
STBF120N	NPTF 1/2	50 (13.2)		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	0,50 (1.1)
STBF340N	NPTF 3/4	80 (21.1)		115 (4.53)			45 (1.77)	1,15 (2.53)					
STBF100N	NPTF 1	150 (39.6)	350 (5075)	102 (4.01)	M45x1,5	53 (2.09)	137 (5.39)	55 (2.17)	13,5 (0.53)	10 (0.39)	50 (1.96)	84100030	1,49 (3.30)
STBF114N	NPTF 1-1/4	200 (52.8)					147 (5.78)	65 (2.56)					2,54 (5.6)
STBF112N	NPTF 1-1/2	300 (79.2)											3,17 (7)



Schema idraulico - Hydraulic circuit

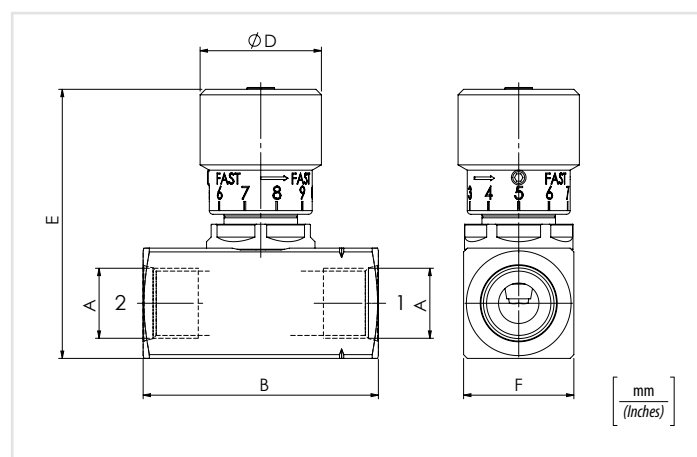


Dati tecnici - Technical data

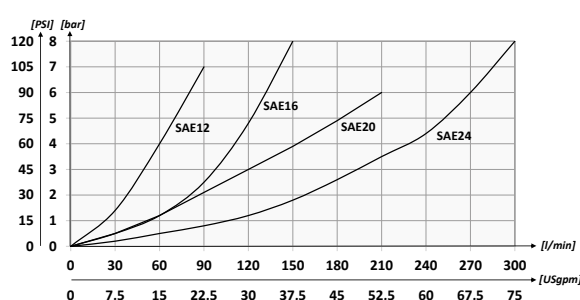
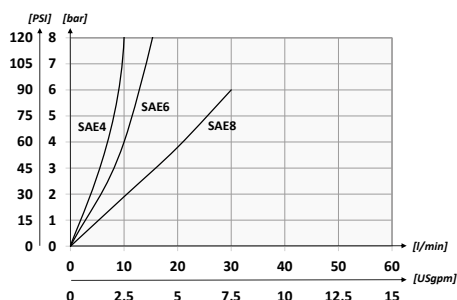
olio idraulico/Mineral oil	ISO 6743/4 (DIN 51524)	
Viscosità olio/Oil viscosity	15-250 mm ² /s (15 to 250 cSt)	
Classe di contaminazione max con filtro Max contamination index with filter	ISO 4406:1999 Classe 19/17/14	
Temperatura dell'olio/Oil temperature	-20°C +80°C	-4°F + 176°F
Temperatura ambiente/Ambient temperature	-20°C +50°C	-4°F + 122°F
È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm) It is necessary a filter use to protect the valve (advised filtration 15 µm)		

Codice ordinazione Ordering code	01	02
	STB	

01	Valvole di controllo flusso bidirezionali (Bidirectional flow control valves)	STB
02	Dimensione (Size)	
	7/16-20UNF	4
	9/16-18UNF	6
	3/4-16UNF	8
	1-1/16-12UN	12
	1-5/16-12UN	16
	1-5/8-12UN	20
	1-7/8-12UN	24



Performances

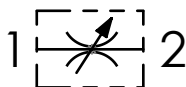


Caratteristiche tecniche - Technical characteristics

Codice Code	A	Portata max (l/min) Max flow (USgpm)	Pressione max (bar) Max pressure (PSI)	B	D	E	F	Peso approssimativo (kg) Approx weight (lb)
STB4	7/16-20UNF	15 (4)	400 (5800)	54 (2.13)	30 (1.18)	68 (2.68)	25 (0.98)	0,32 (0.71)
STB6	9/16 18UNF	30 (7.9)						0,30 (0.66)
STB8	3/4-16UNF	50 (13.2)		64 (2.52)	33 (1.30)	72 (2.83)	30 (1.18)	0,45 (0.99)
STB12	1-1/16-12UN	80 (21.1)		81 (3.19)	42 (1.65)	94 (3.70)	40 (1.57)	1 (2.2)
STB16	1-5/16-12UN	150 (39.6)	102 (4.02)	99 (3.90)		45 (1.77)	1,35 (3)	
STB20	1-5/8-12UN	200 (52.8)		53 (2.09)	121,5 (4.78)	55 (2.17)	2,37 (5.21)	
STB24	1-7/8-12UN	300 (79.2)			131,5 (5.17)	65 (2.56)	3 (6.6)	



Schema idraulico - Hydraulic circuit



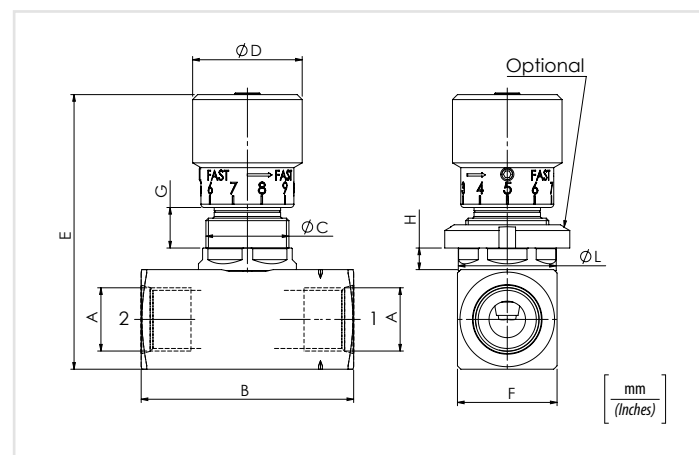
Codice ordinazione
Ordering code

01	02
STBF	

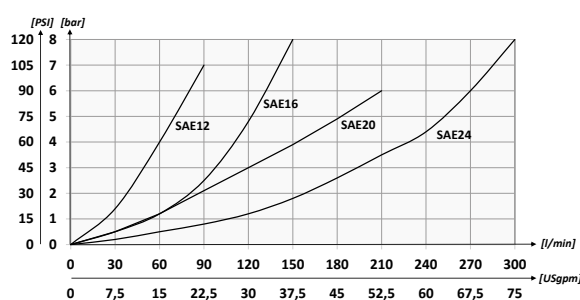
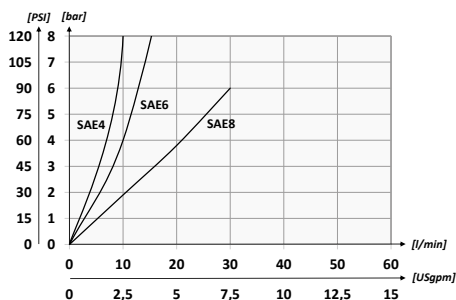
01	Valvole di controllo flusso bidirezionali (Bidirectional flow control valves)	STBF
02	Dimensione (Size)	7/16-20UNF 4
		9/16-18UNF 6
		3/4-16UNF 8
		1-1/16-12UN 12
		1-5/16-12UN 16
		1-5/8-12UN 20
		1-7/8-12UN 24

Dati tecnici - Technical data

Olio idraulico/Mineral oil	ISO 6743/4 (DIN 51524)	
Viscosità olio/Oil viscosity	15-250 mm ² /s (15 to 250 cSt)	
Classe di contaminazione max con filtro Max contamination index with filter	ISO 4406:1999 Classe 19/17/14	
Temperatura dell'olio/Oil temperature	-20°C +80°C	-4°F +176°F
Temperatura ambiente/Ambient temperature	-20°C +50°C	-4°F +122°F
È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm) It is necessary a filter use to protect the valve (advised filtration 15 µm)		



Performances



Caratteristiche tecniche - Technical characteristics

Codice Code	A	Portata max (l/min) Max flow (USgpm)	Pressione max (bar) Max pressure (PSI)	B	C	D	E	F	G	H	L	Optional Code	Peso approssimativo (kg) Approx weight (lb)				
STBF4	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 (0.24)	24,5 (0.96)	84100022	0,34 (0.75)				
STBF6	9/16 18UNF	30 (7.9)					81 (3.19)	30 (1.18)	9 (0.35)	7 (0.28)	29,5 (1.16)		0,32 (0.71)				
STBF8	3/4-16UNF	50 (13.2)					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)	84100023	0,48 (1.05)
STBF12	1-1/16-12UN	80 (21.1)								115 (4.53)	45 (1.77)		13,5 (0.53)	10 (0.39)	50 (1.96)	84100024	1,1 (2.42)
STBF16	1-5/16-12UN	150 (39.6)	350 (5075)	102 (4.02)	M45x1,5	53 (2.09)	137 (5.39)	55 (2.17)	1,45 (3.2)								
STBF20	1-5/8-12UN	200 (52.8)					147 (5.78)	65 (2.56)	2,45 (5.39)								
STBF24	1-7/8-12UN	300 (79.2)							3,17 (7)								

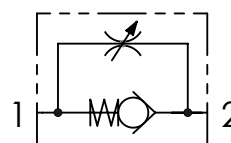


Tenuta a sfera
Ball sealing only

Codice ordinazione Ordering code	01	02
	SVU	

01	Valvole di controllo flusso unidirezionali con regolazione esagono ad incassato (Unidirectional flow control valves with hexagon socket screw adjustment)		SVU
02	Dimensione (Size)	BSPP1/8	180
		BSPP1/4	140
		BSPP3/8	380
		BSPP1/2	120

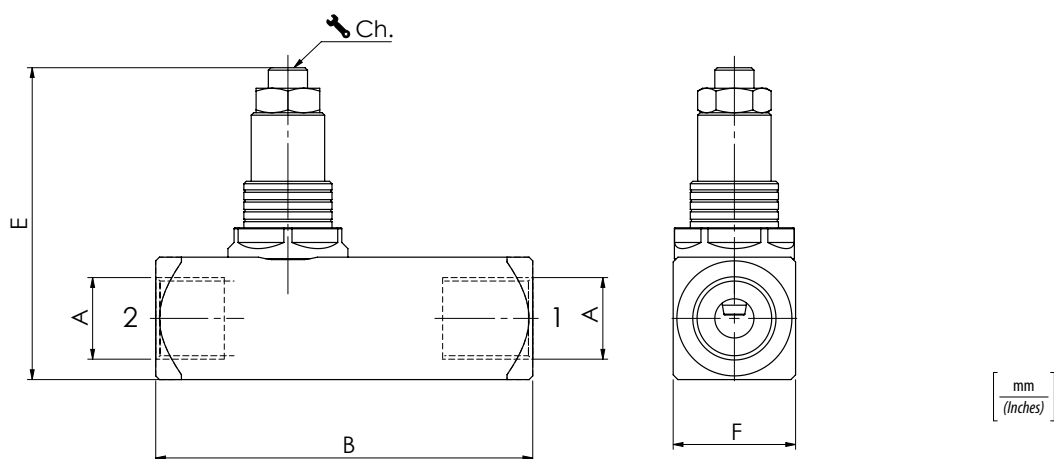
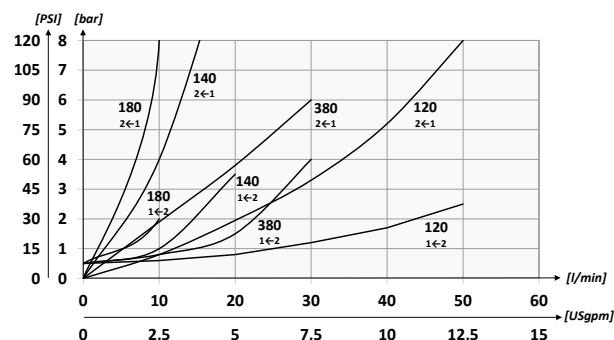
Schema idraulico - Hydraulic circuit



Dati tecnici - Technical data

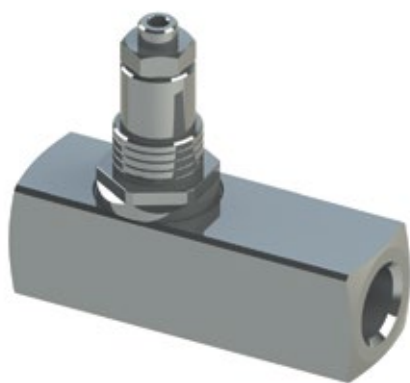
Olio idraulico/Mineral oil	ISO 6743/4 (DIN 51524)	
Viscosità olio/Oil viscosity	15-250 mm²/s (15 to 250 cSt)	
Classe di contaminazione max con filtro Max contamination index with filter	ISO 4406:1999 Classe 19/17/14	
Temperatura dell'olio/Oil temperature	-20°C +80°C	-4°F + 176°F
Temperatura ambiente/Ambient temperature	-20°C +50°C	-4°F + 122°F
È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm) It is necessary a filter use to protect the valve (advised filtration 15 µm)		

Performances

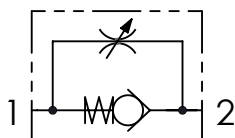


Caratteristiche tecniche - Technical characteristics

Codice Code	A	Portata max (l/min) Max flow (USgpm)	Pressione max (bar) Max pressure (PSI)	B	E	F	Ch.	Peso approssimativo Approx weight kg/lb
SVU180	BSPP1/8	10 (2.6)	400 (5800)	58 (2.28)	53 (2.09)	20 (0.79)	3	0,19 (0.42)
SVU140	BSPP1/4	15 (4)		66 (2.60)	71,5 (2.81)	25 (0.98)	4	0,34 (0.75)
SVU380	BSPP3/8	30 (7.9)		77 (3.03)				0,36 (0.80)
SVU120	BSPP1/2	50 (13.2)		91 (3.58)	72 (2.83)	30 (1.18)	5	0,60 (1.3)



Schema idraulico - Hydraulic circuit



Dati tecnici - Technical data

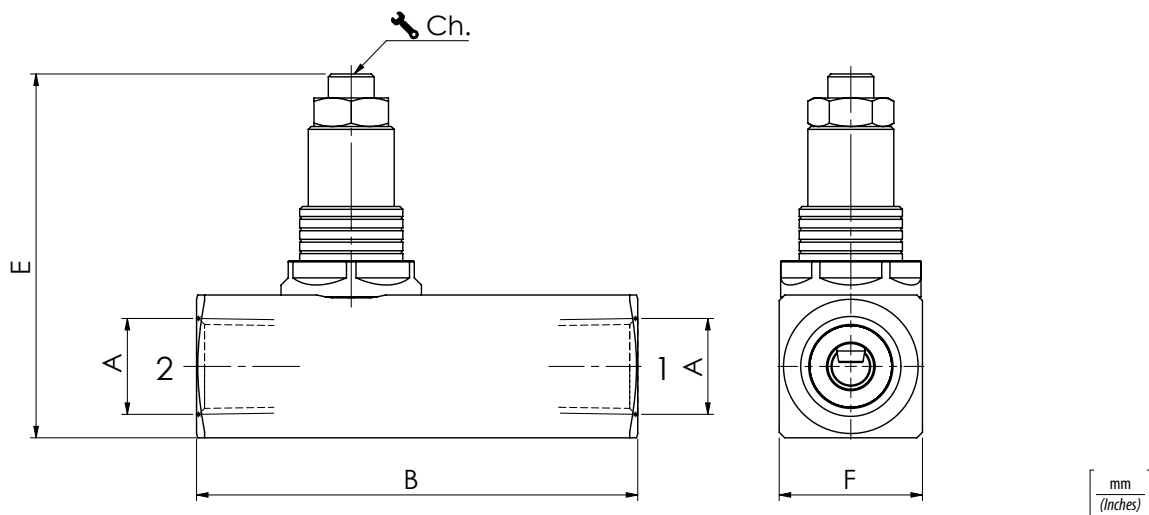
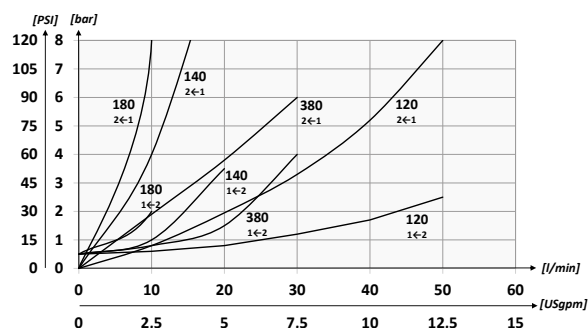
Olio idraulico/Mineral oil	ISO 6743/4 (DIN 51524)
Viscosità olio/Oil viscosity	15-250 mm ² /s (15 to 250 cSt)
Classe di contaminazione max con filtro Max contamination index with filter	ISO 4406:1999 Classe 19/17/14
Temperatura dell'olio/Oil temperature	-20°C +80°C -4°F +176°F
Temperatura ambiente/Ambient temperature	-20°C +50°C -4°F +122°F
È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm) It is necessary a filter use to protect the valve (advised filtration 15 µm)	

Codice ordinazione Ordering code

01	02	03
SVU		N

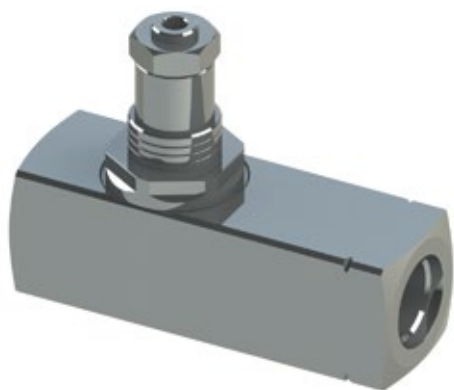
01	Valvole di controllo flusso unidirezionali con regolazione esagono ad incassato (Unidirectional flow control valves with hexagon socket screw adjustment)	SVU
02	Dimensione (Size)	NPTF 1/8
		NPTF 1/4
		NPTF 3/8
		NPTF 1/2
03	Filettatura (Thread)	NPTF

Performances

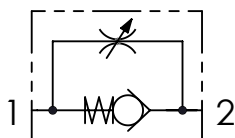


Caratteristiche tecniche - Technical characteristics

Codice Code	A	Portata max (l/min) Max flow (USgpm)	Pressione max (bar) Max pressure (PSI)	B	E	F	Ch.	Peso approssimativo Approx weight kg/lb
SVU180N	NPTF 1/8	10 (2.6)	400 (5800)	58 (2.28)	53 (2.08)	20 (0.79)	3	0,19 (0.42)
SVU140N	NPTF 1/4	15 (4)		66 (2.60)	68 (2.68)	25 (0.98)	4	0,37 (0.75)
SVU380N	NPTF 3/8	30 (7.9)		77 (3.03)				0,40 (0.9)
SVU120N	NPTF 1/2	50 (13.2)		91 (3.58)	72 (2.83)	30 (1.18)	5	0,60 (1.3)



Schema idraulico - Hydraulic circuit



Dati tecnici - Technical data

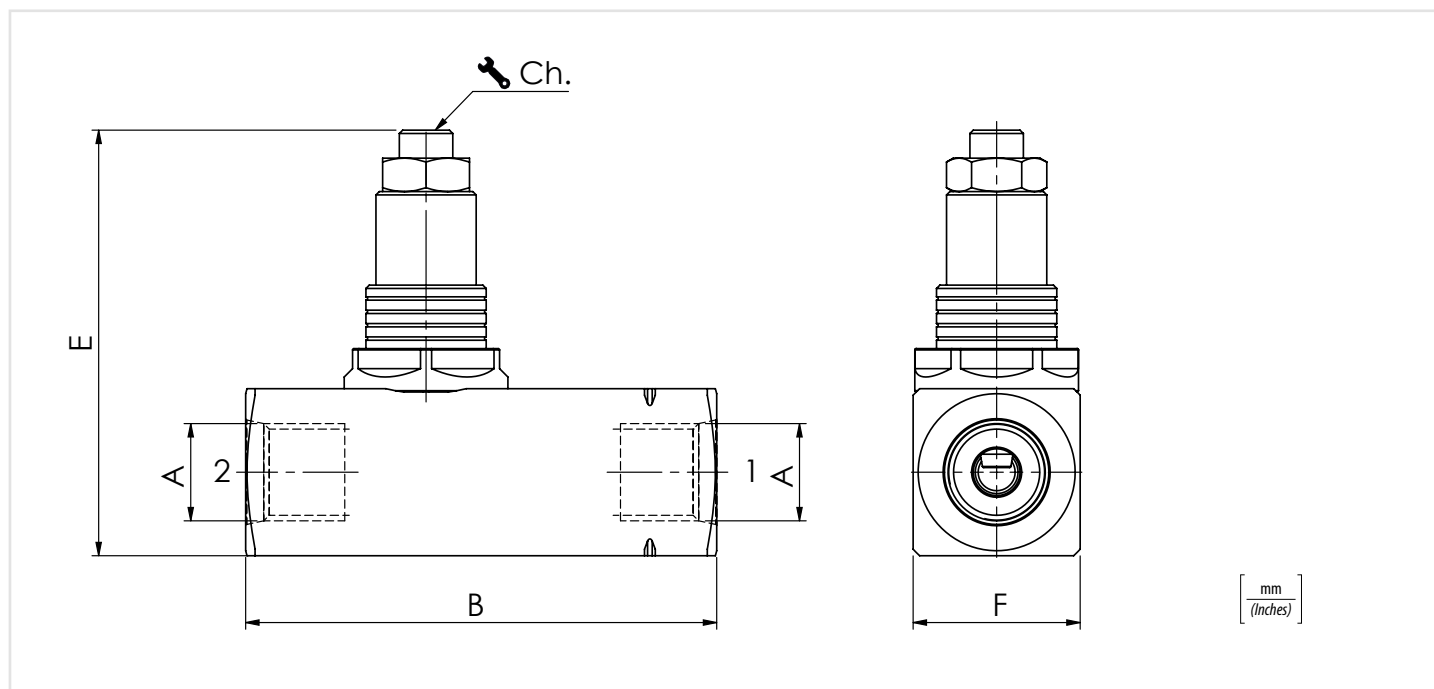
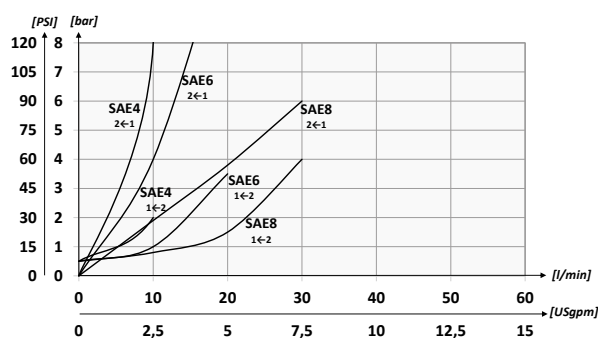
Olio idraulico/Mineral oil	ISO 6743/4 (DIN 51524)
Viscosità olio/Oil viscosity	15-250 mm ² /s (15 to 250 cSt)
Classe di contaminazione max con filtro Max contamination index with filter	ISO 4406:1999 Classe 19/17/14
Temperatura dell'olio/Oil temperature	-20°C +80°C -4°F +176°F
Temperatura ambiente/Ambient temperature	-20°C +50°C -4°F +122°F
È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm) It is necessary a filter use to protect the valve (advised filtration 15 µm)	

Codice ordinazione Ordering code

01	02
SVU	

01	Valvole di controllo flusso unidirezionali con regolazione ad esagono incassato (Unidirectional flow control valves with hexagon socket screw adjustment)	SVU
02	Dimensione (Size)	7/16-20UNF 4
		9/16 18UNF 6
		3/4-16UNF 8

Performances



Caratteristiche tecniche - Technical characteristics

Codice Code	A	Portata max (l/min) Max flow (USgpm)	Pressione max (bar) Max pressure (PSI)	B	E	F	Ch.	Peso approssimativo Approx weight kg/lb
SVU4	7/16-20UNF	15 (4)	400 (5800)	66 (2.60)	68 (2.68)	25 (0.98)	4	0,39 (0.85)
SVU6	9/16 18UNF	30 (7.9)		70,5 (2.78)				0,40 (0.9)
SVU8	3/4-16UNF	50 (13.2)		91 (3.58)	72 (2.83)	30 (1.18)	5	0,60 (1.3)



Codice ordinazione
Ordering code

01	02
SVB	

01	Valvole di controllo flusso bidirezionali con regolazione ad esagono incassato (Bidirectional flow control valves with hexagon socket screw adjustment)		SVB
02	Dimensione (Size)	BSPP1/8	180
		BSPP1/4	140
		BSPP3/8	380
		BSPP1/2	120

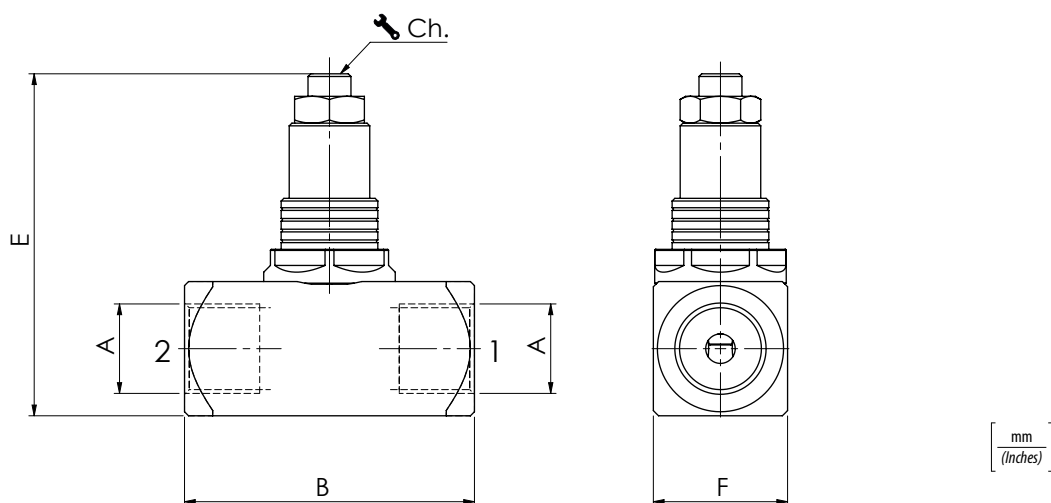
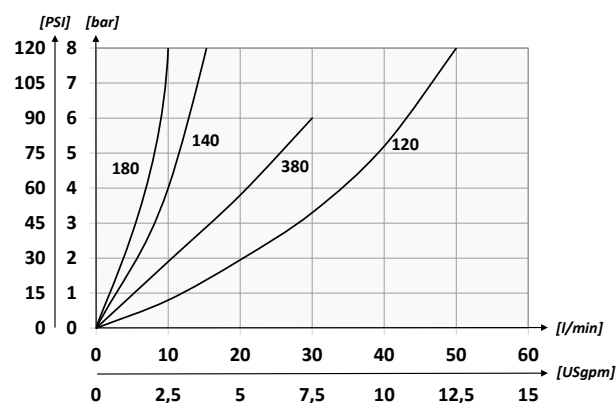
Schema idraulico - Hydraulic circuit



Dati tecnici - Technical data

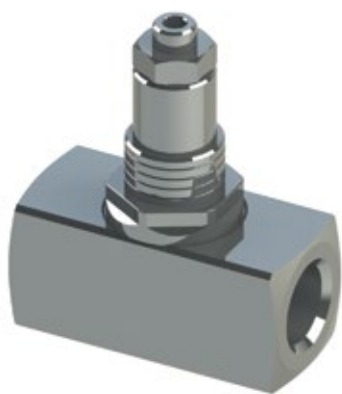
olio idraulico/Mineral oil	ISO 6743/4 (DIN 51524)	
Viscosità olio/Oil viscosity	15-250 mm ² /s (15 to 250 cSt)	
Classe di contaminazione max con filtro Max contamination index with filter	ISO 4406:1999 Classe 19/17/14	
Temperatura dell'olio/Oil temperature	-20°C +80°C	-4°F +176°F
Temperatura ambiente/Ambient temperature	-20°C +50°C	-4°F +122°F
È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm) It is necessary a filter use to protect the valve (advised filtration 15 µm)		

Performances



Caratteristiche tecniche - Technical characteristics

Codice Code	A	Portata max (l/min) Max flow (USgpm)	Pressione max (bar) Max pressure (PSI)	B	E	F	Ch.	Peso approssimativo (kg) Approx weight (lb)
SVB180	BSPP1/8	10 (2.6)	400 (5800)	44 (1.73)	53 (2.09)	20 (0.79)	3	0,15 (0.33)
SVB140	BSPP1/4	15 (4)		54 (2.13)	71,5 (2.81)	25 (0.98)	4	0,29 (0.70)
SVB380	BSPP3/8	30 (7.9)		64 (2.52)	72 (2.83)	30 (1.18)	5	0,26 (0.57)
SVB120	BSPP1/2	50 (13.2)						0,45 (1)

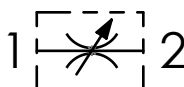


Codice ordinazione Ordering code

01	02	03
SVB		N

01	Valvole di controllo flusso bidirezionali con regolazione esagono ad incassato (Birectional flow control valves with hexagon socket screw adjustment)	SVB
02	Dimensione (Size)	NPTF 1/8
		180
		NPTF 1/4
		140
		NPTF 3/8
		380
		NPTF 1/2
		120
03	Filettatura (Thread)	NPTF
		N

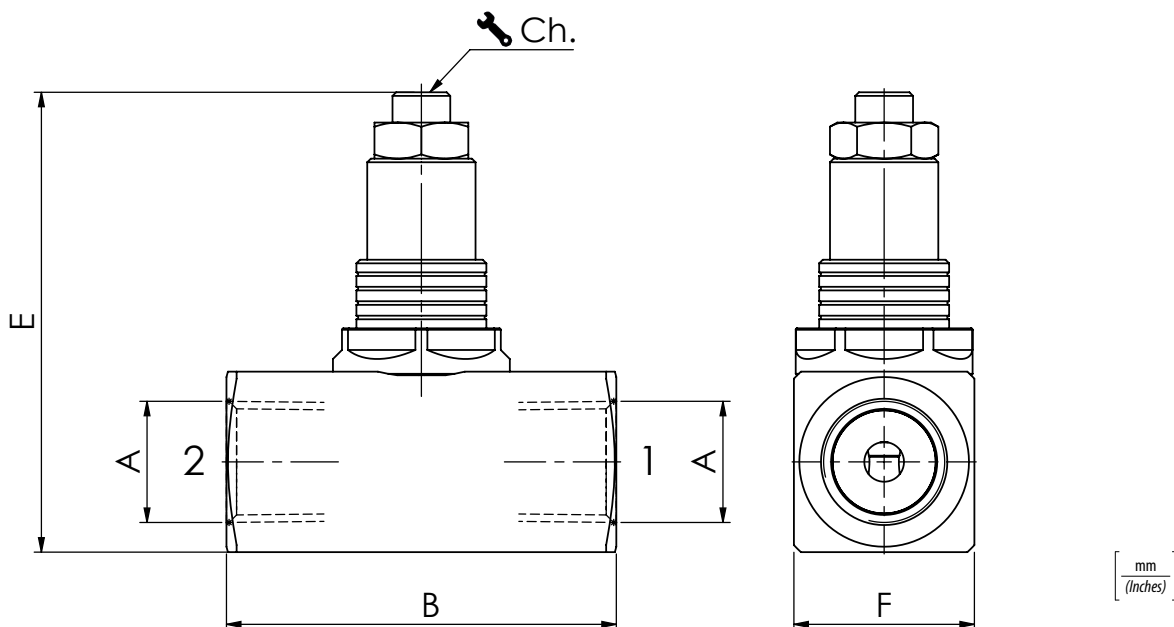
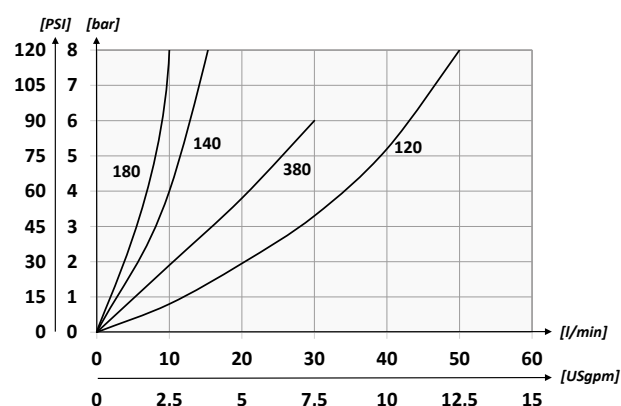
Schema idraulico - Hydraulic circuit



Dati tecnici - Technical data

olio idraulico/Mineral oil	ISO 6743/4 (DIN 51524)		
Viscosità olio/Oil viscosity	15-250 mm ² /s (15 to 250 cSt)		
Classe di contaminazione max con filtro Max contamination index with filter	ISO 4406:1999 Classe 19/17/14		
Temperatura dell'olio/Oil temperature	-20°C +80°C	-4°F +176°F	
Temperatura ambiente/Ambient temperature	-20°C +50°C	-4°F +122°F	
È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm) It is necessary a filter use to protect the valve (advised filtration 15 µm)			

Performances



Caratteristiche tecniche - Technical characteristics

Codice Code	A	Portata max (l/min) Max flow (USgpm)	Pressione max (bar) Max pressure (PSI)	B	E	F	Ch.	Peso approssimativo (kg) Approx weight (lb)
SVB180N	NPTF 1/8	10 (2.6)	400 (5800)	44 (1.73)	53 (2.09)	20 (0.79)	3	0,15 (0.33)
SVB140N	NPTF 1/4	15 (4)		54 (2.13)	68 (2.68)	25 (0.98)	4	0,32 (0.71)
SVB380N	NPTF 3/8	30 (7.9)						0,30 (0.66)
SVB120N	NPTF 1/2	50 (13.2)		64 (2.52)	72 (2.83)	30 (1.18)	5	0,47 (1.03)



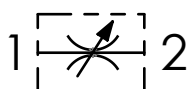
Codice ordinazione
Ordering code

01
SVB

02

01	Valvole di controllo flusso bidirezionali con regolazione ad esagono incassato (Bidirectional flow control valves with hexagon socket screw adjustment)			SVB
02	Dimensione (Size)	7/16-20UNF	4	
		9/16-18UNF	6	
		3/4-16UNF	8	

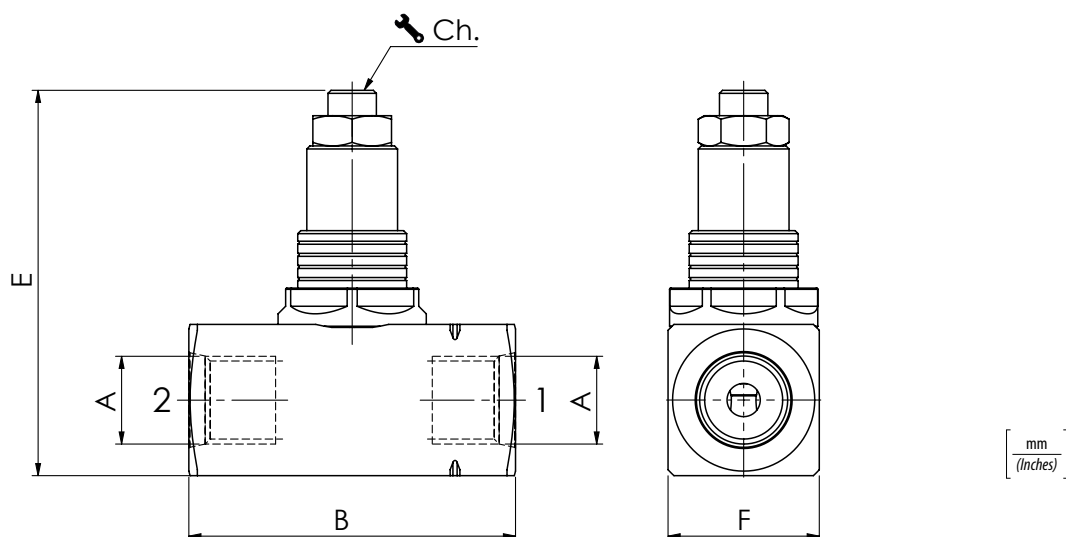
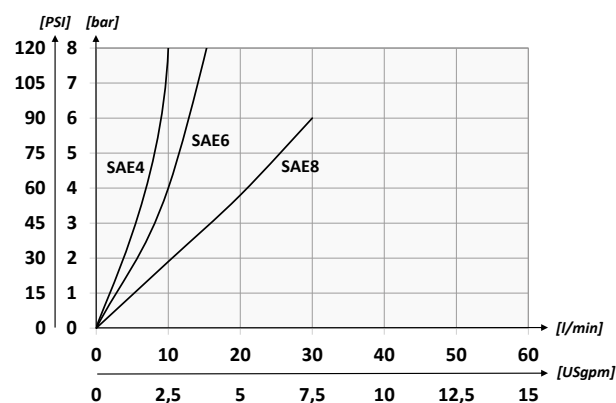
Schema idraulico - Hydraulic circuit



Dati tecnici - Technical data

Olio idraulico/Mineral oil	ISO 6743/4 (DIN 51524)		
Viscosità olio/Oil viscosity	15-250 mm²/s (15 to 250 cSt)		
Classe di contaminazione max con filtro <i>Max contamination index with filter</i>	ISO 4406:1999 Classe 19/17/14		
Temperatura dell'olio/Oil temperature	-20°C +80°C	-4°F + 176°F	
Temperatura ambiente/Ambient temperature	-20°C +50°C	-4°F + 122°F	
È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm) <i>It is necessary a filter use to protect the valve (advised filtration 15 µm)</i>			

Performances

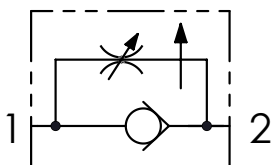


Caratteristiche tecniche - Technical characteristics

Codice Code	A	Portata max (l/min) Max flow (USgpm)	Pressione max (bar) Max pressure (PSI)	B	E	F	Ch.	Peso approssimativo (kg) Approx weight (lb)
SVB4	7/16-20UNF	15 (4)	400 (5800)	54 (2.13)	68 (2.68)	25 (0.98)	4	0,32 (0.71)
SVB6	9/16-18UNF	30 (7.9)						0,30 (0.66)
SVB8	3/4-16UNF	50 (13.2)		64 (2.52)	72 (2.83)	30 (1.18)	5	0,45 (0.99)



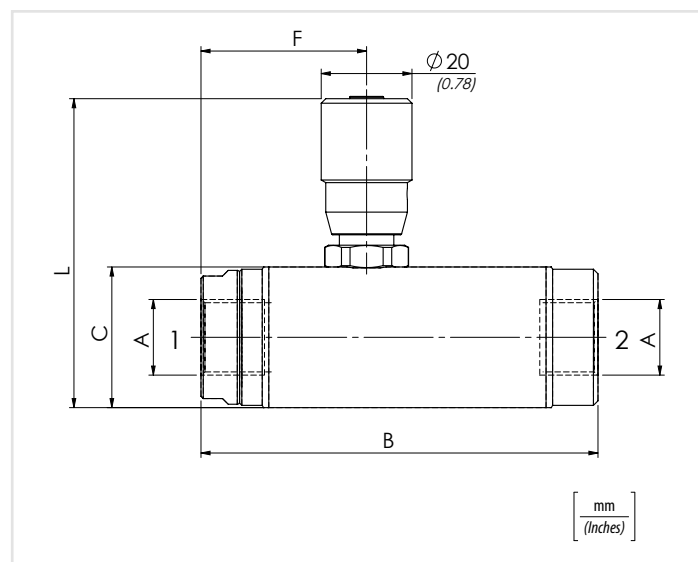
Schema idraulico - Hydraulic circuit



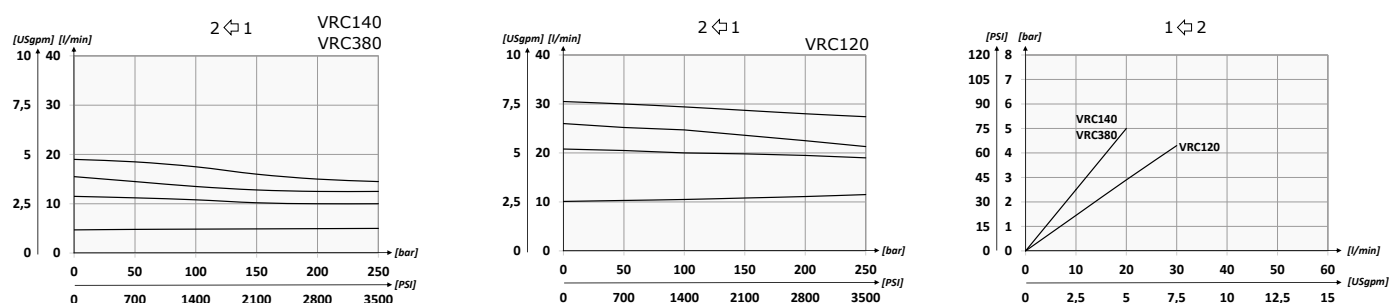
Dati tecnici - Technical data

olio idraulico/Mineral oil	ISO 6743/4 (DIN 51524)	
Viscosità olio/Oil viscosity	15-250 mm ² /s (15 to 250 cSt)	
Classe di contaminazione max con filtro Max contamination index with filter	ISO 4406:1999 Classe 19/17/14	
Temperatura dell'olio/Oil temperature	-20°C +80°C	-4°F +176°F
Temperatura ambiente/Ambient temperature	-20°C +50°C	-4°F +122°F
È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm) It is necessary a filter use to protect the valve (advised filtration 15 µm)		

Codice ordinazione Ordering code		01	02
		VRC	
01	Valvole di controllo flusso compensate (Flow control valves - pressure compensated)		VRC
02	Dimensione (Size)	BSPP1/4	140
		BSPP3/8	380
		BSPP1/2	120

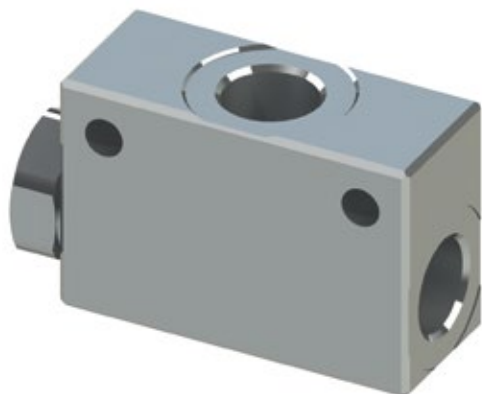


Performances



Caratteristiche tecniche - Technical characteristics

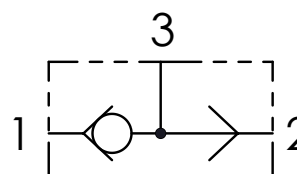
Codice Code	A	Portata max (l/min) Max flow (USgpm)	Pressione max (bar) Max pressure (PSI)	B	C	F	L	Peso approssimativo (kg) Approx weight (lb)
VRC140	BSPP1/4	10 (2.6)	250 (3625)	88 (3.46)	27 (1.06)	51 (2.01)	52 (2.05)	0,51 (1.12)
VRC380	BSPP3/8	18 (4.8)						0,50 (1.10)
VRC120	BSPP1/2	33 (8.7)		108 (4.25)	36 (1.42)	61 (2.40)	57 (2.24)	0,76 (1.67)



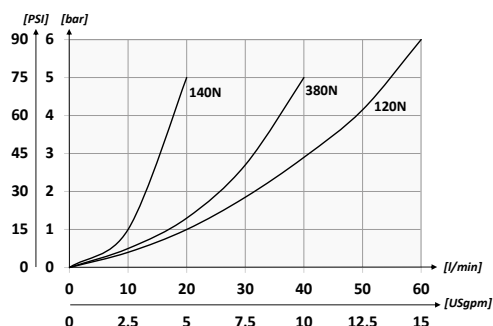
	01	02
Codice ordinazione Ordering code	VUSF	

01	Valvole selettive (Load shuttle valves - ball type)	VUSF
02	Dimensione (Size)	
	BSPP1/4	140N
	BSPP3/8	380N
	BSPP1/2	120N

Schema idraulico - Hydraulic circuit

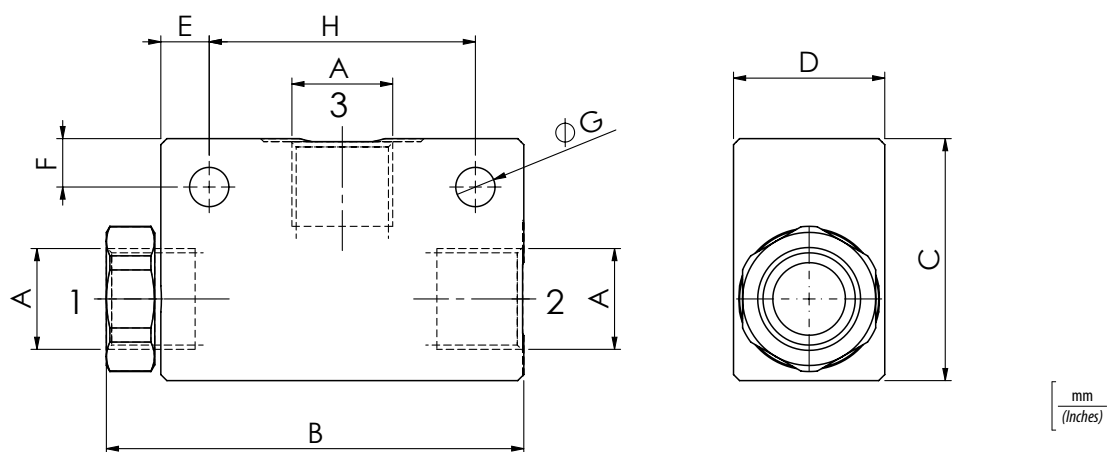


Performances



Dati tecnici - Technical data

Olio idraulico/Mineral oil	ISO 6743/4 (DIN 51524)
Viscosità olio/Oil viscosity	15-250 mm²/s (15 to 250 cSt)
Classe di contaminazione max con filtro Max contamination index with filter	ISO 4406:1999 Classe 19/17/14
Temperatura dell'olio/Oil temperature	-20°C +80°C -4°F + 176°F
Temperatura ambiente/Ambient temperature	-20°C +50°C -4°F + 122°F
È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm) It is necessary a filter use to protect the valve (advised filtration 15 µm)	



Caratteristiche tecniche - Technical characteristics

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
VUSF140N	BSPP1/4	20 (5.3)	350 (5075)	57 (2.24)	35 (1.38)	25 (0.98)	9 (0.35)	8 (0.31)	6,5 (0.26)	34 (1.34)	0,29 (0.65)
VUSF380N	BSPP3/8	40 (10.6)		69 (2.72)	40 (1.57)		8 (0.31)			44 (1.73)	0,37 (0.81)
VUSF120N	BSPP1/2	60 (15.8)		73,5 (2.89)	50 (1.97)	35 (1.38)	10 (0.39)	10 (0.39)	8,5 (0.33)	50 (1.97)	0,71 (1.56)



Codice ordinazione Ordering code

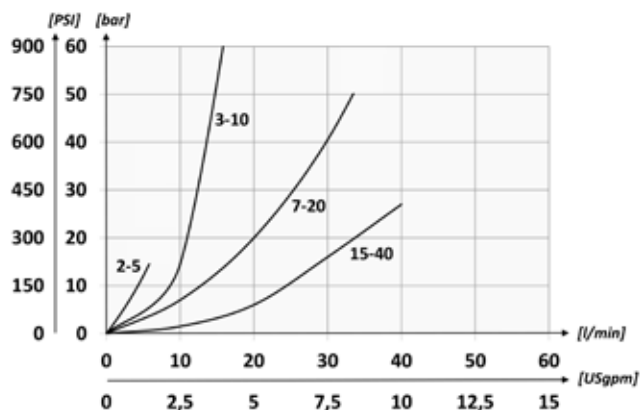
01	02	03	04
DRF10			

01	Valvola Divisore/riunificatore di flusso (Flow Divider/Combiner valves)	DRF10
02	Campo di portata in ingresso (l/min) Inlet flow range (USgpm)	2-5 (0.5-1.3)
		3-10 (0.8-2.6)
		7-20 (1.8-5.2)
		15-40 (3.9-10.4)
03	Connessione P (Port P)	BSPP3/8
		BSPP1/2
04	Connessione U1/U2 (Port U1/U2)	BSPP3/8
		BSPP1/2

Dati tecnici - Technical data

Olío idraulico/Mineral oil	ISO 6743/4 (DIN 51524)	
Viscosità olio/Oil viscosity	15-250 mm ² /s (15 to 250 cSt)	
Classe di contaminazione max con filtro Max contamination index with filter	ISO 4406:1999 Classe 19/17/14	
Temperatura dell'olio/Oil temperature	-20°C +80°C	-4°F + 176°F
Temperatura ambiente/Ambient temperature	-20°C +50°C	-4°F + 122°F
È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm) It is necessary a filter use to protect the valve (advised filtration 15 µm)		

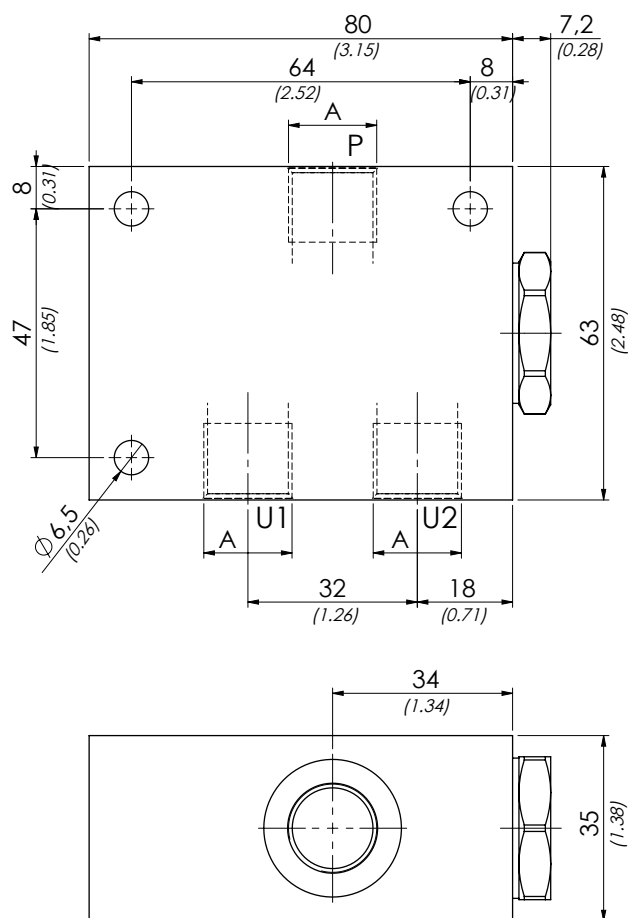
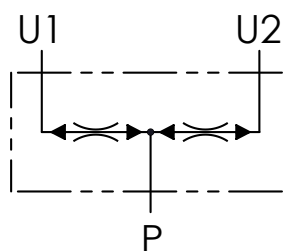
Performances



Caratteristiche tecniche - Technical characteristics

Codice Code	Portata max (l/min) Max flow (USgpm)	Pressione max (bar) Max pressure (PSI)	Peso approssimativo (kg) Approx weight (lb)
DRF10	40 (10.6)	250 (3625)	0,52 (1.14)

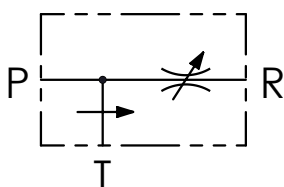
Schema idraulico - Hydraulic circuit



mm
(Inches)



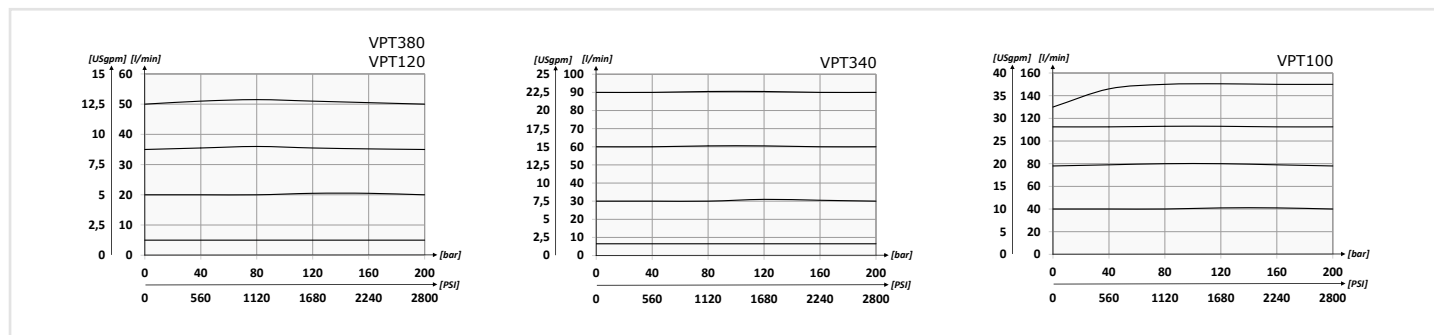
Schema idraulico - Hydraulic circuit



Dati tecnici - Technical data

Olio idraulico/Mineral oil	ISO 6743/4 (DIN 51524)		
Viscosità olio/Oil viscosity	15-250 mm²/s (15 to 250 cSt)		
Classe di contaminazione max con filtro <i>Max contamination index with filter</i>	ISO 4406:1999 Classe 19/17/14		
Temperatura dell'olio/Oil temperature	-20°C +80°C	-4°F + 176°F	
Temperatura ambiente/Ambient temperature	-20°C +50°C	-4°F + 122°F	
È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm) <i>It is necessary a filter use to protect the valve (advised filtration 15 µm)</i>			

Performances



Caratteristiche tecniche - Technical characteristics

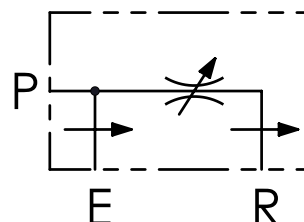
Codice Code	A	Portata max (l/min) Max flow (USgpm)	Pressione max (bar) Max pressure (PSI)	B	C	D	E	F	G	H	I	L	M	N	S	U	Peso approssimativo (kg) Approx weight (lb)
VPT380	BSPP3/8	50 (13.2)	250 (3625)	90 (3.54)	90 (3.54)	40 (1.57)	44 (1.73)	31 (1.22)	42 (1.65)	64 (2.52)	54 (2.13)	6 (0.24)	78 (3.07)	37 (1.46)	6,5 (0.26)	40 (1.57)	1,15 (2.54)
VPT120	BSPP1/2	90 (23.8)		110 (4.33)	110 (4.33)	50 (1.97)	40 (1.57)	35 (1.38)	52 (2.05)	88 (3.46)	/	10,5 (0.41)	/	24 (0.94)	8,5 (0.33)	40 (1.57)	1,94 (4.28)
VPT340	BSPP3/4	150 (39.6)		140 (5.51)	130 (5.12)	70 (2.76)	49,5 (1.95)	46 (1.81)	41 (1.61)	/	90 (3.54)	10 (0.39)	100 (3.94)	38 (1.50)	10,5 (0.41)	44,5 (1.75)	2,05 (4.52)
VPT100	BSPP1	240 (63.4)															



	01	02	03
Codice ordinazione Ordering code	VPP		V

01	Regolatori di flusso 3 vie - compensati, con eccedenza in pressione (3 ways flow control valves - pressure compensated, exceeding flow to pressure)	VPP
02	Dimensione (Size)	
	BSPP3/8	380
	BSPP1/2	120
	BSPP3/4	340
03	Regolazione (Setting)	Volantino (Hand wheel)
		V

Schema idraulico - Hydraulic circuit

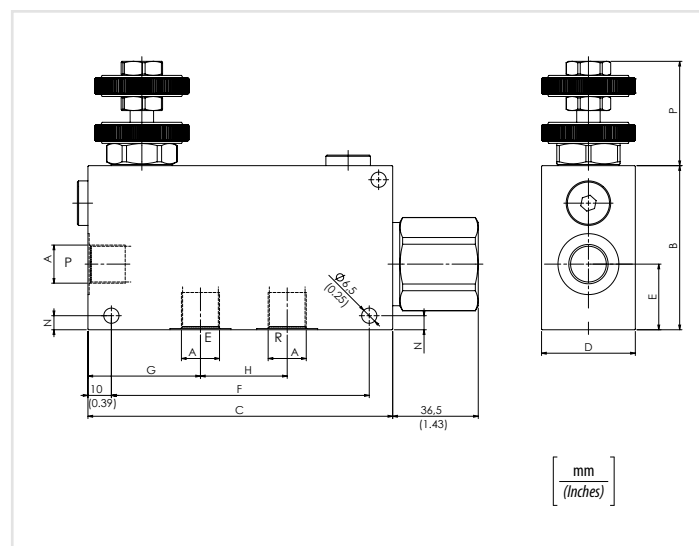


Dati tecnici - Technical data

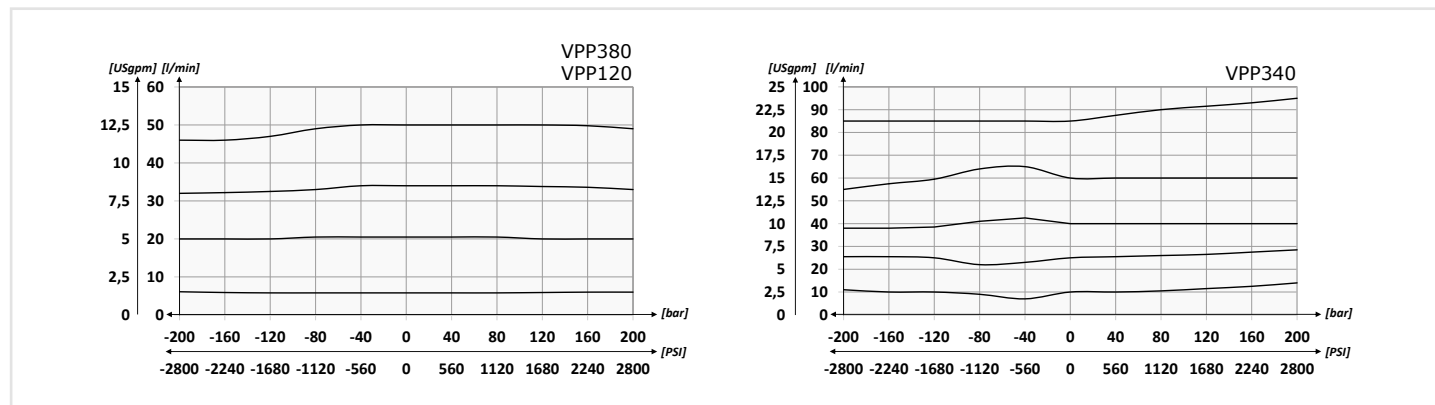
Olio idraulico/Mineral oil	ISO 6743/4 (DIN 51524)	
Viscosità olio/Oil viscosity	15-250 mm ² /s (15 to 250 cSt)	
Classe di contaminazione max con filtro Max contamination index with filter	ISO 4406:1999 Classe 19/17/14	
Temperatura dell'olio/Oil temperature	-20°C +80°C	-4°F + 176°F
Temperatura ambiente/Ambient temperature	-20°C +50°C	-4°F + 122°F
È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm) It is necessary a filter use to protect the valve (advised filtration 15 µm)		

Portata massima l/min - Max flow USgpm

50 l/min con 30 l/min in R (13,3 USgpm with 8 USgpm in R)	380
90 l/min con 50 l/min in R (24 USgpm with 13,3 USgpm in R)	120
150 l/min con 80 l/min in R (40 USgpm with 21,3 USgpm in R)	340

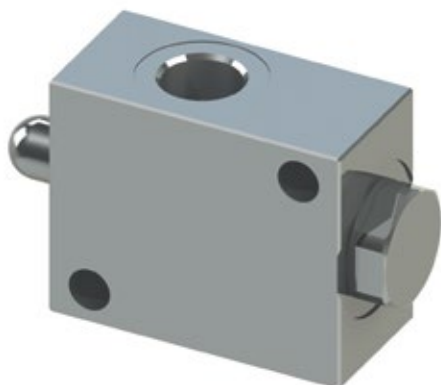


Performances



Caratteristiche tecniche - Technical characteristics

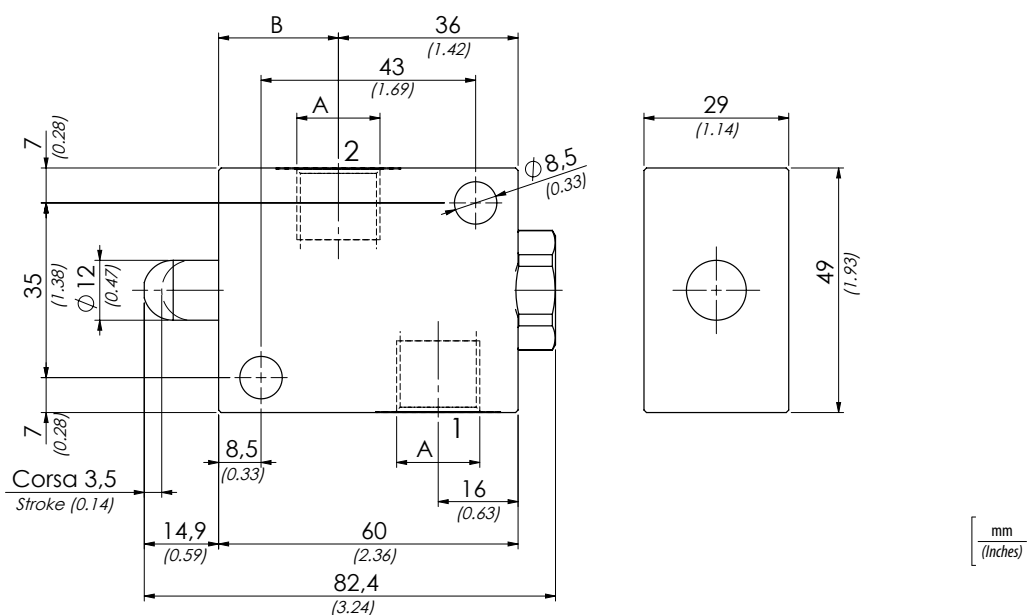
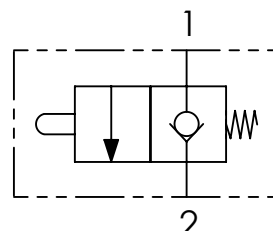
Codice Code	A	Portata max (l/min) Max flow (USgpm)	Pressione max (bar) Max pressure (PSI)	B	C	D	E	F	G	H	L	N	P	S	Peso approssimativo (kg) Approx weight (lb)
VPP380	BSPP3/8	50 (13.2)	250 (3625)	70 (2.76)	130 (5.12)	40 (1.57)	28 (1.10)	110 (4.33)	48 (1.89)	37 (1.46)	58 (2.28)	6 (0.24)	41 (1.61)	6,5 (0.26)	1,30 (2.87)
VPP120	BSPP1/2	90 (23.8)		90 (3.54)	155 (6.10)	50 (1.97)	35 (1.38)	135 (5.31)	57 (2.24)	44 (1.73)	/	7 (0.28)	35 (1.38)	8,5 (0.33)	2,48 (5.46)
VPP340	BSPP3/4	150 (39.6)													

**Codice ordinazione**
Ordering code

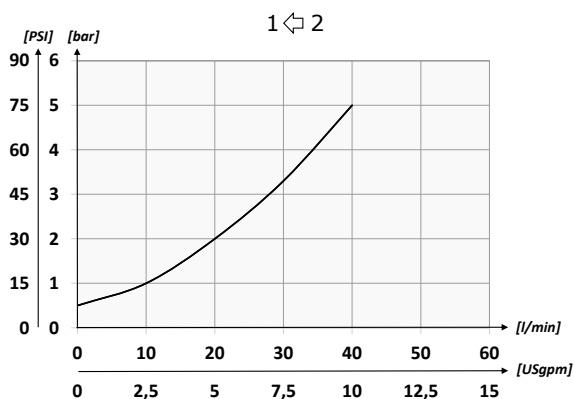
01	02
FCM	

01	Valvole di fine corsa normalmente chiuse (<i>Normally closed end - stroke valves</i>)		FCM
02	Dimensione (<i>Size</i>)	BSPP1/4	140N
		BSPP3/8	380N

Schema idraulico - Hydraulic circuit



Performances

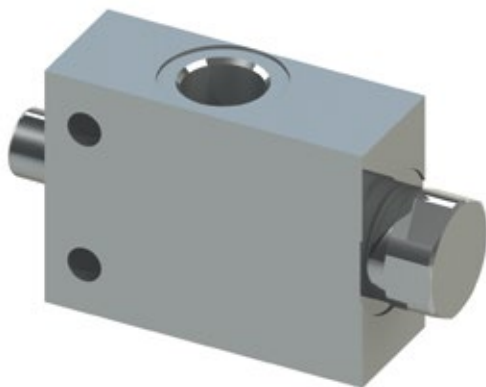


Dati tecnici - Technical data

Olio idraulico/Mineral oil	ISO 6743/4 (DIN 51524)
Viscosità olio/Oil viscosity	15-250 mm²/s (15 to 250 cSt)
Classe di contaminazione max con filtro <i>Max contamination index with filter</i>	ISO 4406:1999 Classe 19/17/14
Temperatura dell'olio/Oil temperature	-20°C +80°C -4°F + 176°F
Temperatura ambiente/Ambient temperature	-20°C +50°C -4°F + 122°F
È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm) <i>It is necessary a filter use to protect the valve (advised filtration 15 µm)</i>	

Caratteristiche tecniche - Technical characteristics

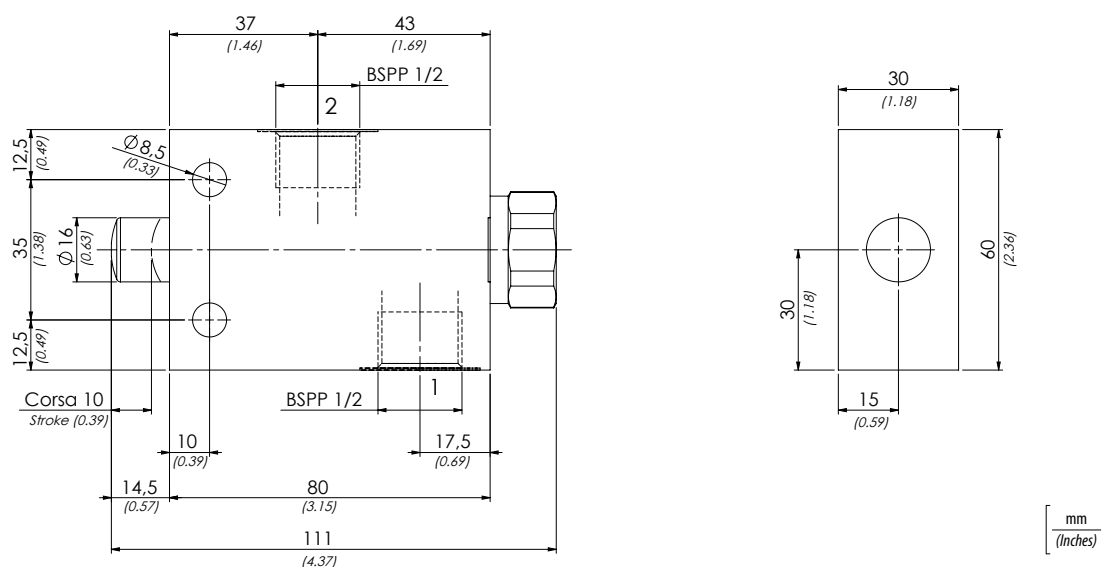
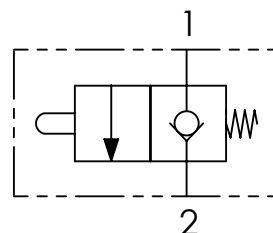
Codice Code	A	B	Portata max Max flow l/min-USgpm	Pressione max (bar) Max pressure (PSI)	Peso approssimativo Approx weight kg-lb
FCM140N	BSPP1/4	26,5 (1.04)	40 (10.6)	350 (5075)	0,53 (1.16)
FCM380N	BSPP3/8	24 (0.94)			0,50 (1.10)

**Codice ordinazione**
Ordering code

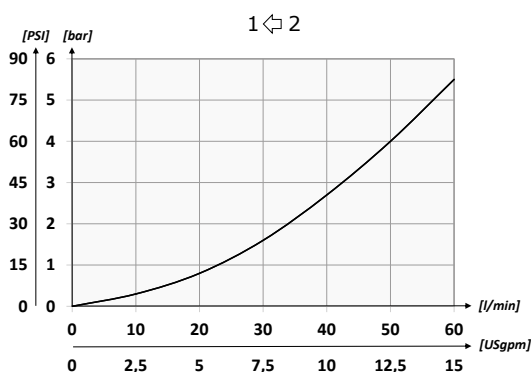
01	02
FCM	120N

01	Valvole di fine corsa normalmente chiuse (Normally closed end - stroke valves)		FCM
02	Dimensione (Size)	BSP1/2	120N

Schema idraulico - Hydraulic circuit



Performances

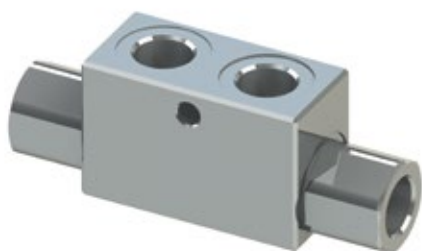


Dati tecnici - Technical data

Olio idraulico/Mineral oil	ISO 6743/4 (DIN 51524)
Viscosità olio/Oil viscosity	15-250 mm²/s (15 to 250 cSt)
Classe di contaminazione max con filtro <i>Max contamination index with filter</i>	ISO 4406:1999 Classe 19/17/14
Temperatura dell'olio/Oil temperature	-20°C +80°C -4°F + 176°F
Temperatura ambiente/Ambient temperature	-20°C +50°C -4°F + 122°F
È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm) <i>It is necessary a filter use to protect the valve (advised filtration 15 µm)</i>	

Caratteristiche tecniche - Technical characteristics

Codice <i>Code</i>	Portata max <i>Max flow</i> l/min- <i>USgpm</i>	Pressione max (bar) <i>Max pressure (PSI)</i>	Peso approssimativo <i>Approx weight</i> kg-lb
FCM120N	60 (15.8)	300 (4350)	1,01 (2.22)

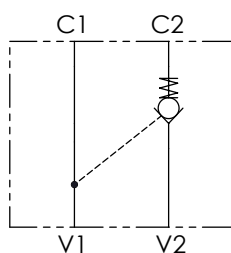


Codice ordinazione Ordering code

01	02
VRSE	

01	Valvole di blocco a semplice effetto (Single acting pilot check valves)	VRSE
02	Dimensione (Size)	BSPP1/4
		BSPP3/8
		BSPP1/2
		BSPP3/4
		140
		380
		120
		340

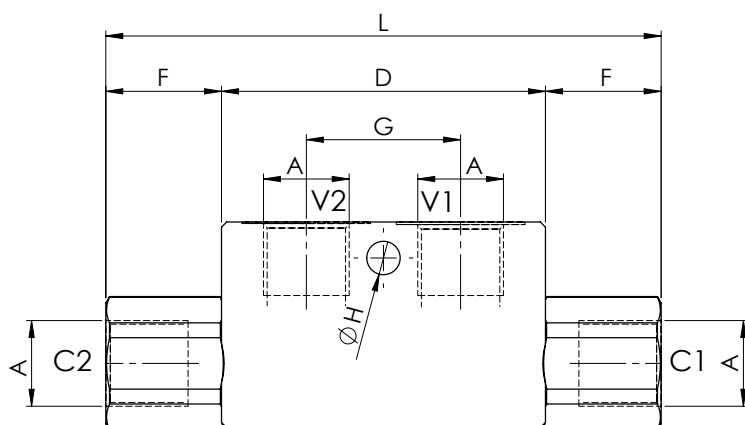
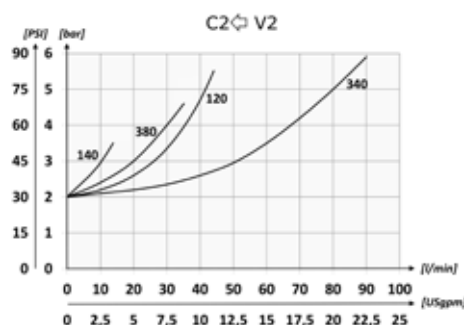
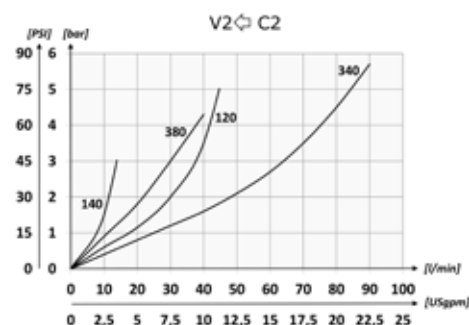
Schema idraulico - Hydraulic circuit



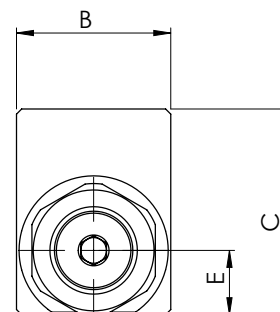
Dati tecnici - Technical data

Olío idraulico/Mineral oil	ISO 6743/4 (DIN 51524)
Viscosità olio/Oil viscosity	15-250 mm ² /s (15 to 250 cSt)
Classe di contaminazione max con filtro Max contamination index with filter	ISO 4406:1999 Classe 19/17/14
Temperatura dell'olio/Oil temperature	-20°C +80°C -4°F + 176°F
Temperatura ambiente/Ambient temperature	-20°C +50°C -4°F + 122°F
È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm) It is necessary a filter use to protect the valve (advised filtration 15 µm)	
Trafilamento massimo Max leakage	0,25 cm ³ /min - 5 gocce/min 0,015 in ³ /min - 5 drops/min

Performances



mm
(Inches)

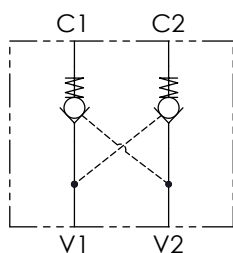


Caratteristiche tecniche - Technical characteristics

Codice Code	A	Portata max (l/min) Max flow (USgpm)	Pressione max (bar) Max pressure (PSI)	B	C	D	E	F	G	H	L	Peso approssimativo (kg) Approx weight (lb)	Rapporto di pilotaggio Pilot ratio
VRSE140	BSPP1/4	15 (4)	320 (4640)	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)	0,64 (1.41)	1:4
VRSE380	BSPP3/8	35 (9.2)										0,59 (1.30)	
VRSE120	BSPP1/2	45 (11.9)	300 (4350)	35 (1.38)	50 (1.97)	82 (3.23)	16,5 (0.65)	31,5 (1.24)	36 (1.42)	8,5 (0.33)	145 (5.71)	1,08 (2.38)	
VRSE340	BSPP3/4	70 (18.5)										40 (1.57)	60 (2.36)



Schema idraulico - Hydraulic circuit



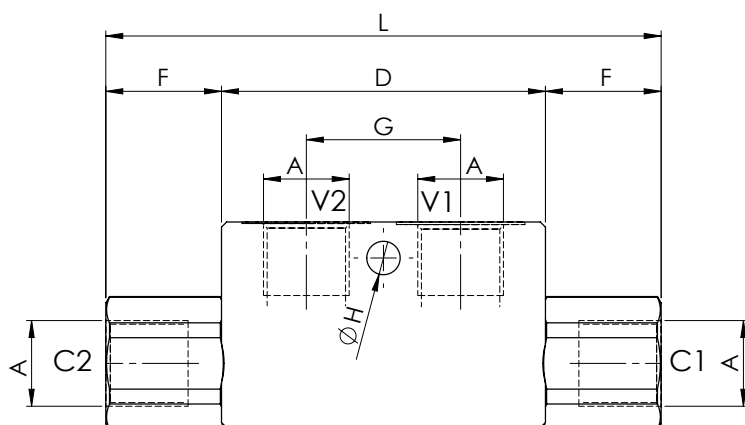
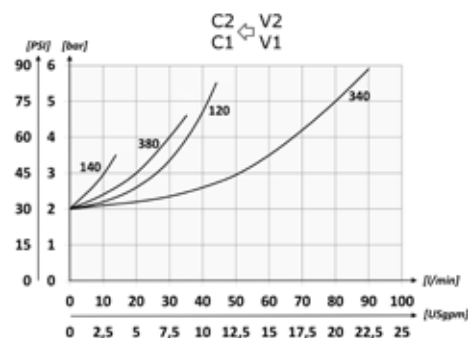
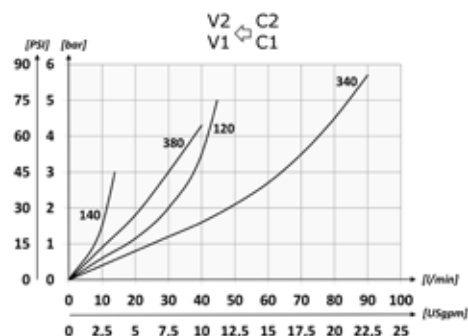
Dati tecnici - Technical data

Olio idraulico/Mineral oil	ISO 6743/4 (DIN 51524)
Viscosità olio/Oil viscosity	15-250 mm ² /s (15 to 250 cSt)
Classe di contaminazione max con filtro Max contamination index with filter	ISO 4406:1999 Classe 19/17/14
Temperatura dell'olio/Oil temperature	-20°C +80°C -4°F + 176°F
Temperatura ambiente/Ambient temperature	-20°C +50°C -4°F + 122°F
È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm) It is necessary a filter use to protect the valve (advised filtration 15 µm)	
Trafilamento massimo Max leakage	0,25 cm ³ /min - 5 gocce/min 0,015 in ³ /min - 5 drops/min

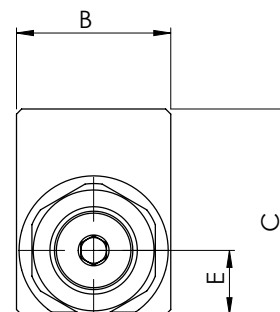
01	02
VRDE	

01	Valvole di blocco a doppio effetto (Double acting pilot check valves)	VRDE
02	Dimensione (Size)	BSPP1/4
		BSPP3/8
		BSPP1/2
		BSPP3/4

Performances



[mm
(Inches)]

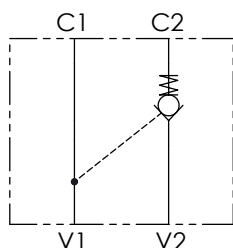


Caratteristiche tecniche - Technical characteristics

Codice Code	A	Portata max (l/min) Max flow (USgpm)	Pressione max (bar) Max pressure (PSI)	B	C	D	E	F	G	H	L	Peso approssimativo (kg) Approx weight (lb)	Rapporto di pilotaggio Pilot ratio
VRDE140	BSPP1/4	15 (4)	320 (4640)	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)	0,64 (1.41)	1:4
VRDE380	BSPP3/8	35 (9.2)										0,60 (1.32)	
VRDE120	BSPP1/2	45 (11.9)	300 (4350)	35 (1.38)	50 (1.97)	82 (3.23)	16,5 (0.65)	31,5 (1.24)	36 (1.42)	8,5 (0.33)	145 (5.71)	1,10 (2.42)	
VRDE340	BSPP3/4	70 (18.5)										2 (4.41)	1:2.9



Schema idraulico - Hydraulic circuit



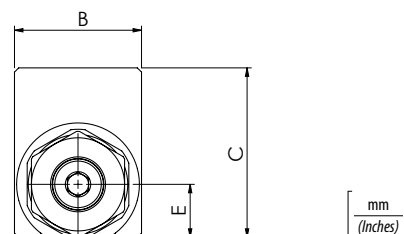
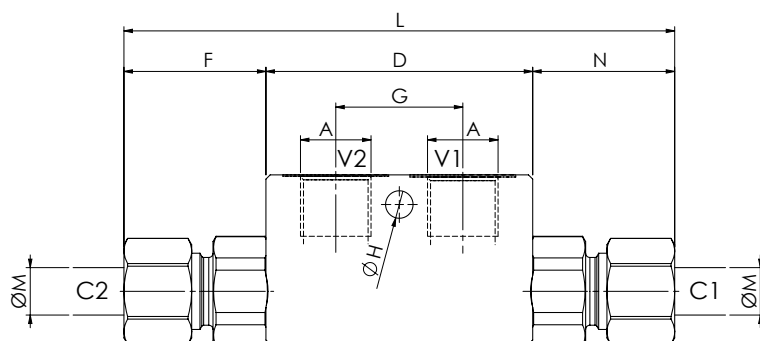
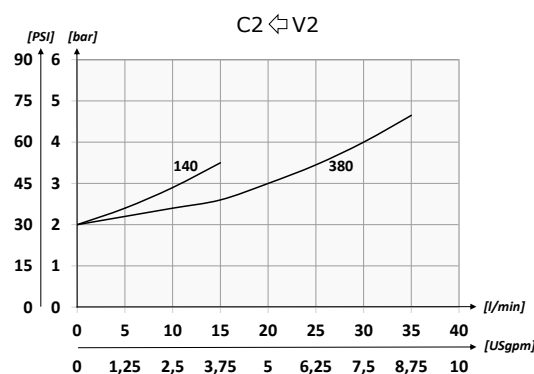
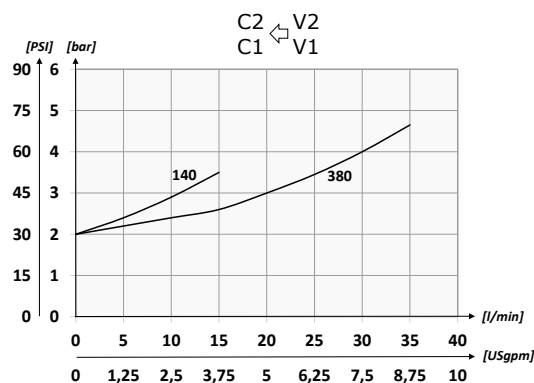
Dati tecnici - Technical data

Olio idraulico/Mineral oil	ISO 6743/4 (DIN 51524)
Viscosità olio/Oil viscosity	15-250 mm ² /s (15 to 250 cSt)
Classe di contaminazione max con filtro Max contamination index with filter	ISO 4406:1999 Classe 19/17/14
Temperatura dell'olio/Oil temperature	-20°C +80°C -4°F +176°F
Temperatura ambiente/Ambient temperature	-20°C +50°C -4°F +122°F
È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm) It is necessary a filter use to protect the valve (advised filtration 15 µm)	
Trafilamento massimo Max leakage	0,25 cm ³ /min - 5 gocce/min 0,015 in ³ /min - 5 drops/min

01	02	03
VRSD		

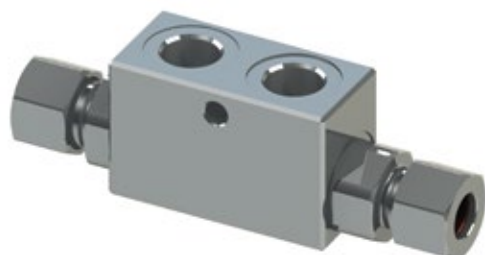
01	Valvole di blocco a semplice effetto DIN2353 (DIN2353 single acting pilot check valves)	VRSD
02	Dimensione (Size)	BSPP1/4
		140
03	Dimensione tubo (Size pipe)	BSPP3/8
		380
03	Dimensione tubo (Size pipe)	Per tubo Ø 8 - For Ø 8 pipe
		T8
03	Dimensione tubo (Size pipe)	Per tubo Ø 12 - For Ø 12 pipe standard
		T8

Performances

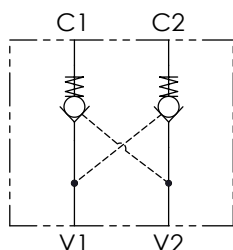


Caratteristiche tecniche - Technical characteristics

Codice Code	A	Portata max (l/min) Max flow (USgpm)	Pressione max (bar) Max pressure (PSI)	B	C	D	E	F	G	H	L	M	N	Peso approssimativo (kg) Approx weight (lb)	Rapporto di pilotaggio Pilot ratio
VRSD140T8	BSPP1/4	10 (2.6)	320 (4640)	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 (0.31)	25 (0.98)	0,62 (1.36)	1:9
VRSD140		15 (4)						32 (1.26)						0,63 (1.37)	
VRSD380		35 (9.2)						32 (1.26)						0,60 (1.32)	



Schema idraulico - Hydraulic circuit



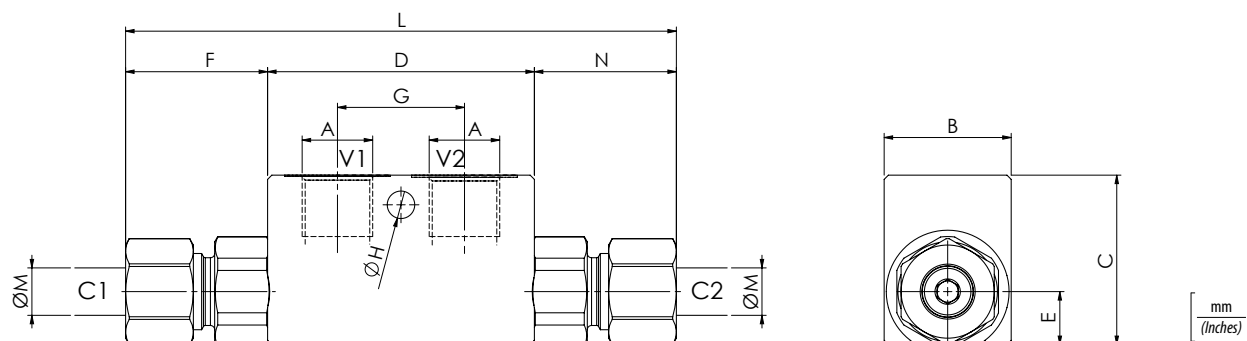
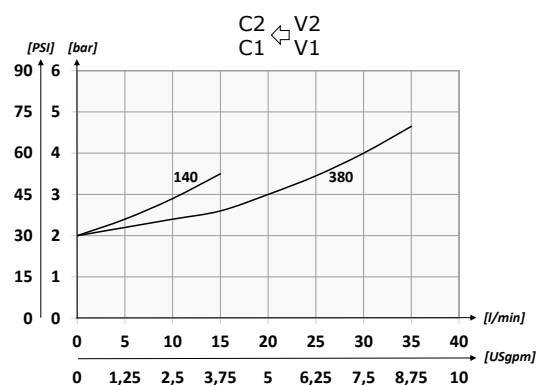
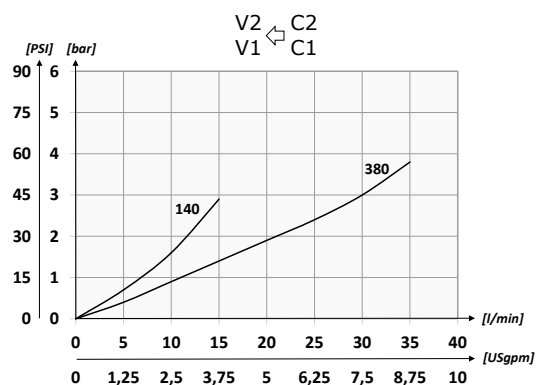
Dati tecnici - Technical data

Olio idraulico/Mineral oil	ISO 6743/4 (DIN 51524)	
Viscosità olio/Oil viscosity	15-250 mm ² /s (15 to 250 cSt)	
Classe di contaminazione max con filtro Max contamination index with filter	ISO 4406:1999 Classe 19/17/14	
Temperatura dell'olio/Oil temperature	-20°C +80°C	-4°F + 176°F
Temperatura ambiente/Ambient temperature	-20°C +50°C	-4°F + 122°F
È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm) It is necessary a filter use to protect the valve (advised filtration 15 µm)		
Trafilamento massimo Max leakage	0,25 cm ³ /min - 5 gocce/min	0,015 in ³ /min - 5 drops/min

01	02	03
VRDD		

01	Valvole di blocco a doppio effetto DIN2353 (DIN2353 double acting pilot check valves)		VRDD
02	Dimensione (Size)	BSPP1/4	140
		BSPP3/8	380
03	Dimensione tubo (Size pipe)	Per tubo Ø 8 - For Ø 8 pipe	T8
		Per tubo Ø 12 - For Ø 12 pipe standard	

Performances



Caratteristiche tecniche - Technical characteristics

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	BSPP1/4	10 (2.6)	320 (4640)	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 (0.31)	0,60 (1.32)	1:9
VRDD140		15 (4)						32 (1.26)			127 (5)	12 (0.47)	0,64 (1.4)	
VRDD380		35 (9.2)											0,63 (1.38)	1:4

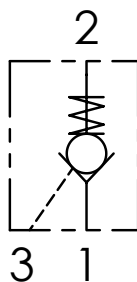


Codice ordinazione
Ordering code

01	02
VRPE	

01	Valvole di blocco pilotate a semplice effetto (Single acting pilot check valves)	VRPE
02	BSPP1/4	140
	BSPP3/8	380
	BSPP1/2	120
	BSPP3/4	340
	BSPP1	100

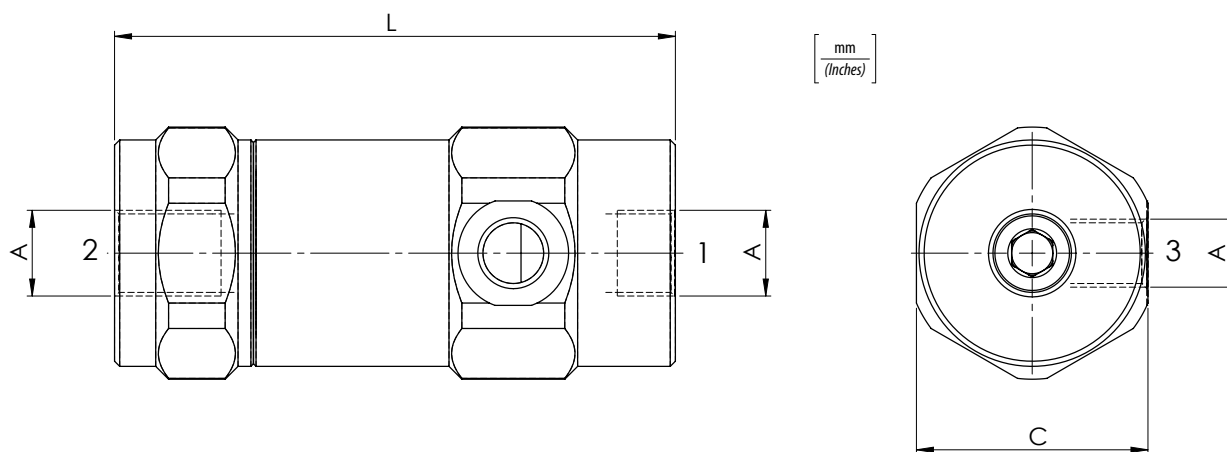
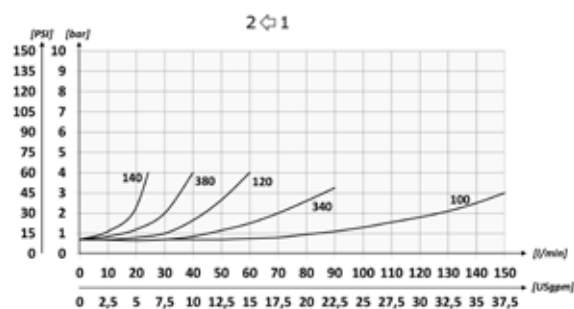
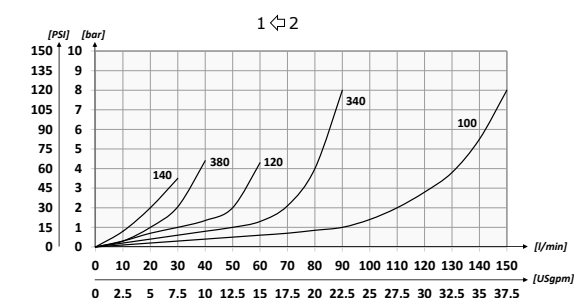
Schema idraulico - Hydraulic circuit



Dati tecnici - Technical data

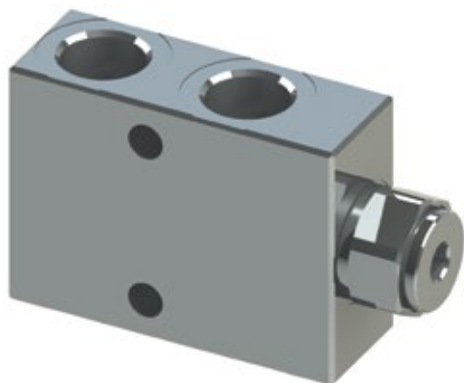
Olío idraulico/Mineral oil	ISO 6743/4 (DIN 51524)	
Viscosità olio/Oil viscosity	15-250 mm ² /s (15 to 250 cSt)	
Classe di contaminazione max con filtro Max contamination index with filter	ISO 4406:1999 Classe 19/17/14	
Temperatura dell'olio/Oil temperature	-20°C +80°C	-4°F + 176°F
Temperatura ambiente/Ambient temperature	-20°C +50°C	-4°F + 122°F
È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm) It is necessary a filter use to protect the valve (advised filtration 15 µm)		
Trafilamento massimo Max leakage	0,25 cm ³ /min - 5 gocce/min 0,015 in ³ /min - 5 drops/min	

Performances



Caratteristiche tecniche - Technical characteristics

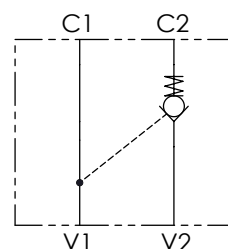
Codice Code	A	Portata max (l/min) Max flow (USgpm)	Pressione max (bar) Max pressure (PSI)	L	C	Peso approssimativo (kg) Approx weight (lb)	Rapporto di pilotaggio Pilot ratio
VRPE140	BSPP1/4	25 (6.6)	350 (5075)	100 (3.94)	40 (1.57)	0,84 (1.85)	1:5.3
VRPE380	BSPP3/8	40 (10.6)		105 (4.13)	45 (1.77)	1,14 (2.51)	1:4.4
VRPE120	BSPP1/2	60 (15.9)		125 (4.92)		1,24 (2.73)	1:4.2
VRPE340	BSPP3/4	100 (26.4)	300 (4350)	130 (5.12)	55 (2.17)	1,87 (4.12)	1:4
VRPE100	BSPP1	150 (39.6)		166 (6.54)	65 (2.56)	3,22 (7.10)	1:4.1



	01	02
Codice ordinazione Ordering code	VRP	

01	Valvole di blocco pilotate a semplice effetto (Single acting pilot check valves)	VRP
02	Dimensione (Size)	BSPP1/2
		120

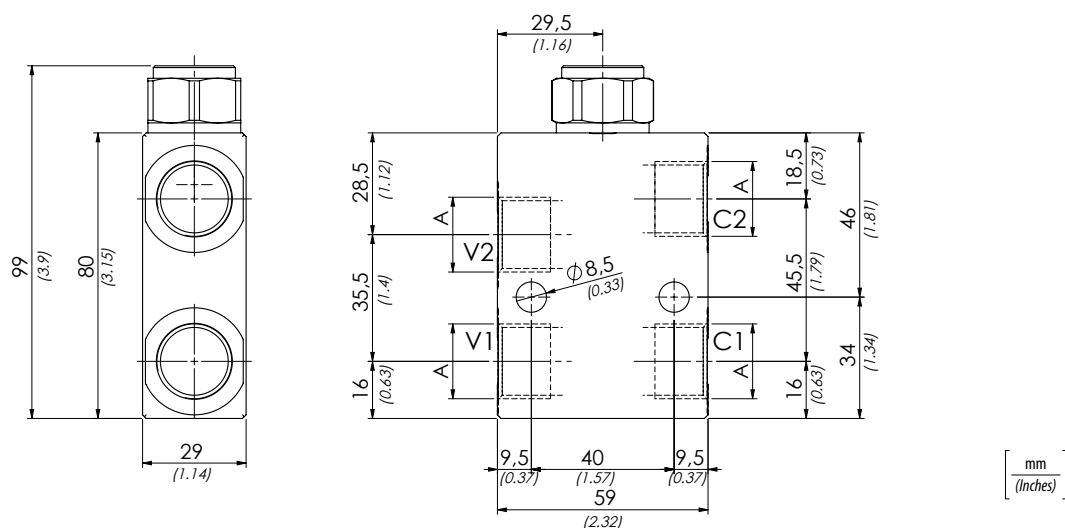
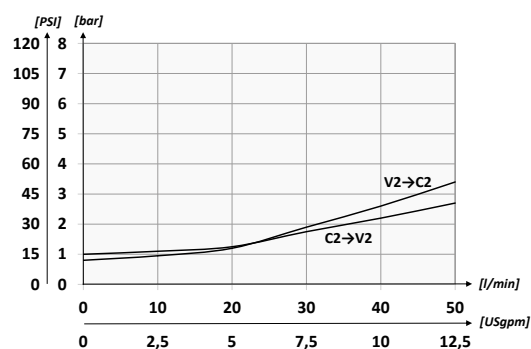
Schema idraulico - Hydraulic circuit



Dati tecnici - Technical data

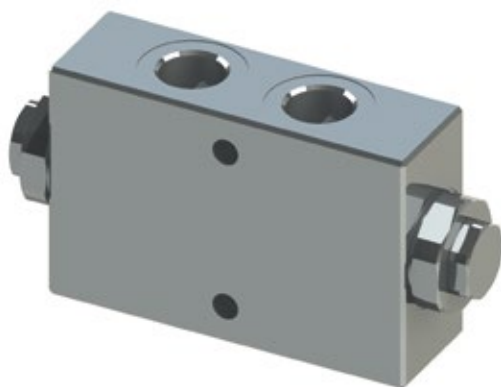
Olio idraulico/Mineral oil	ISO 6743/4 (DIN 51524)	
Viscosità olio/Oil viscosity	15-250 mm²/s (15 to 250 cSt)	
Classe di contaminazione max con filtro Max contamination index with filter	ISO 4406:1999 Classe 19/17/14	
Temperatura dell'olio/Oil temperature	-20°C +80°C	-4°F + 176°F
Temperatura ambiente/Ambient temperature	-20°C +50°C	-4°F + 122°F
È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm) It is necessary a filter use to protect the valve (advised filtration 15 µm)		
Trafilamento massimo Max leakage	0,25 cm³/min - 5 gocce/min	0,015 in³/min - 5 drops/min

Performances

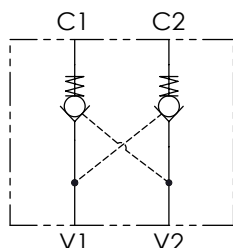


Caratteristiche tecniche - Technical characteristics

Codice Code	A	Portata max (l/min) Max flow (USgpm)	Pressione max (bar) Max pressure (PSI)	Peso approssimativo (kg) Approx weight (lb)	Rapporto di pilotaggio Pilot ratio
VRP120	BSPP1/2	50 (13.2)	350 (5075)	0,9 (2)	1:4



Schema idraulico - Hydraulic circuit



Dati tecnici - Technical data

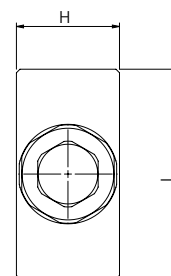
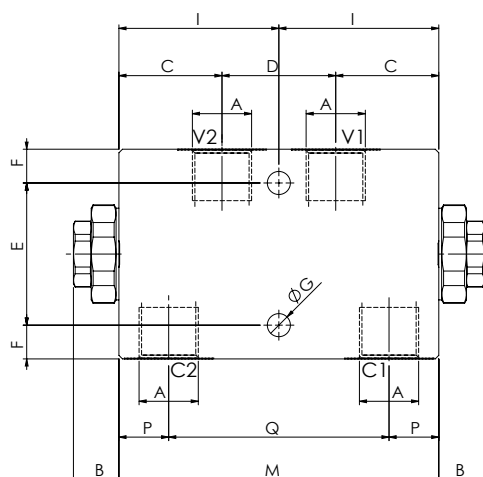
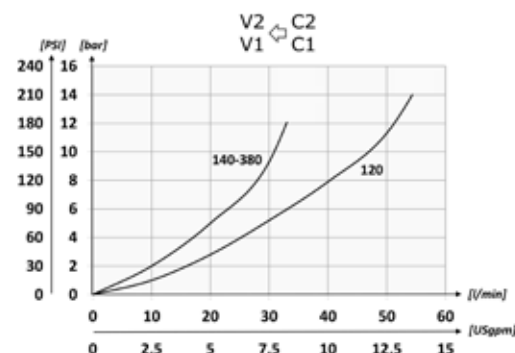
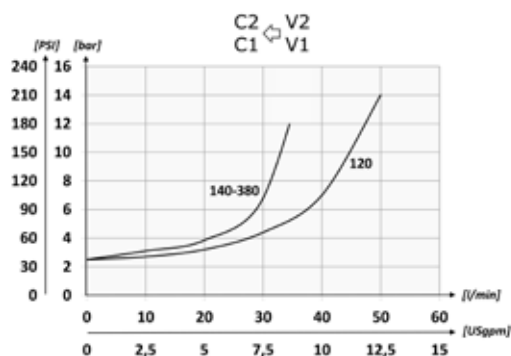
Olío idraulico/Mineral oil	ISO 6743/4 (DIN 51524)		
Viscosità olío/Oil viscosity	15-250 mm²/s (15 to 250 cSt)		
Classe di contaminazione max con filtro <i>Max contamination index with filter</i>	ISO 4406:1999 Classe 19/17/14		
Temperatura dell'olío/Oil temperature	-20°C +80°C	-4°F + 176°F	
Temperatura ambiente/Ambient temperature	-20°C +50°C	-4°F + 122°F	
È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm) <i>It is necessary a filter use to protect the valve (advised filtration 15 µm)</i>			
Trafilamento massimo <i>Max leakage</i>	0,25 cm³/min - 5 gocce/min 0,015 in³/min - 5 drops/min		

01	02
VRDL	

Codice ordinazione
Ordering code

01	Valvole di blocco pilotate a doppio effetto (Double acting pilot check valves)	VRDL
02	Dimensione (Size)	BSPP1/4
		BSPP3/8
		BSPP1/2
		140N
		380N
		120N

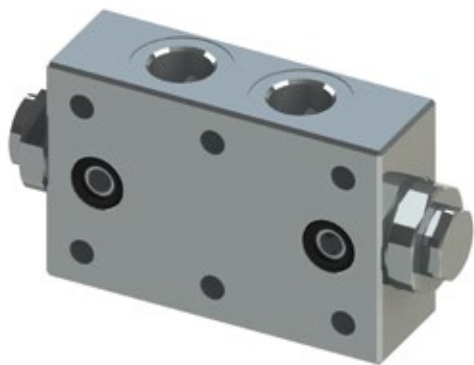
Performances



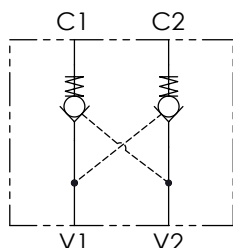
mm
(Inches)

Caratteristiche tecniche - Technical characteristics

Codice Code	A	Portata max Max flow l/min-USgpm	Pressione max Max pressure bar/PSI	B	C	D	E	F	G	H	I	L	M	P	Q	Peso approssimativo Approx weight kg/lb	Rapporto di pilotaggio Pilot ratio
VRDL140N	BSPP1/4	35 (9.2)	350 (5075)	12,5 (0.49)	29 (1.14)	32 (1.26)	40 (1.57)	10 (0.39)	6,5 (0.26)	30 (1.18)	40 (1.57)	60 (2.36)	90 (3.54)	14 (0.55)	62 (2.44)	1,18 (2.60) 1,10 (2.42) 1,77 (3.90)	1:7
VRDL380N	BSPP3/8			14,5 (0.57)	38 (1.50)	34 (1.34)		15 (0.59)	8,5 (0.33)	35 (1.38)	55 (2.17)	70 (2.76)	110 (4.33)	20,5 (0.81)	69 (2.72)		
VRDL120N	BSPP1/2	50 (13.2)															



Schema idraulico - Hydraulic circuit



Dati tecnici - Technical data

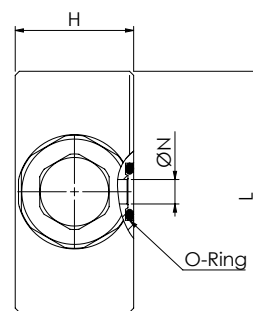
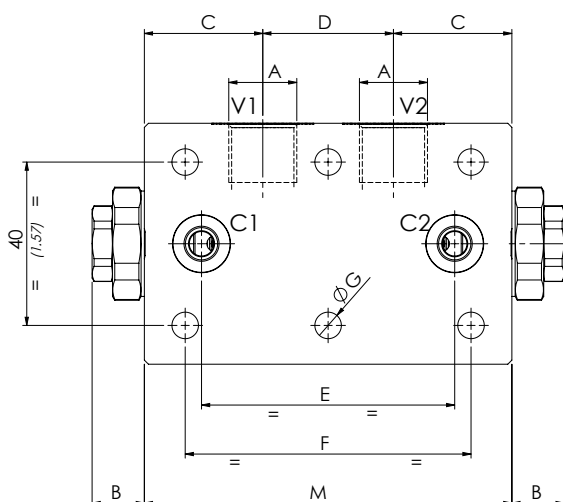
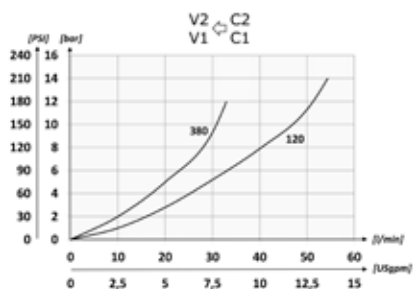
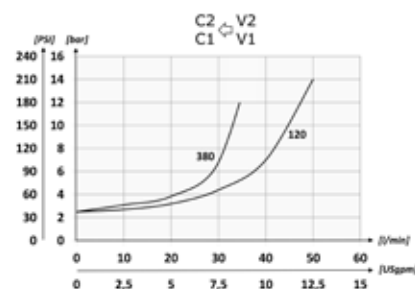
Olio idraulico/Mineral oil	ISO 6743/4 (DIN 51524)		
Viscosità olio/Oil viscosity	15-250 mm²/s (15 to 250 cSt)		
Classe di contaminazione max con filtro <i>Max contamination index with filter</i>	ISO 4406:1999 Classe 19/17/14		
Temperatura dell'olio/Oil temperature	-20°C +80°C	-4°F + 176°F	
Temperatura ambiente/Ambient temperature	-20°C +50°C	-4°F + 122°F	
È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm) <i>It is necessary a filter use to protect the valve (advised filtration 15 µm)</i>			
Trafilamento massimo <i>Max leakage</i>	0,25 cm³/min - 5 gocce/min 0,015 in³/min - 5 drops/min		

Codice ordinazione Ordering code

01	02	03	04	05
VRDF				

01	Valvole di blocco flangiata a doppio effetto (Double acting pilot check valves - flanged version)	VRDF
02	Dimensione (Size)	BSPP3/8
		BSPP1/2
03	Molla (Spring)	1 bar (14.5 PSI)
		6 bar (87 PSI) Standard
04	O-Ring sul pistone di pilotaggio (O-ring on pilot piston)	No o-ring
		con o-ring (with o-ring)
05	Rapporto di pilotaggio (Pilot ratio)	1:3,2
		1:7

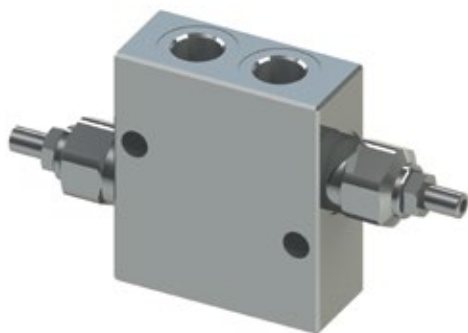
Performances



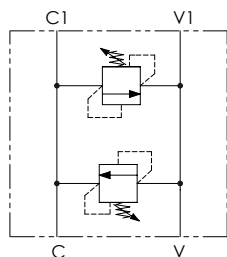
[mm
(Inches)]

Caratteristiche tecniche - Technical characteristics

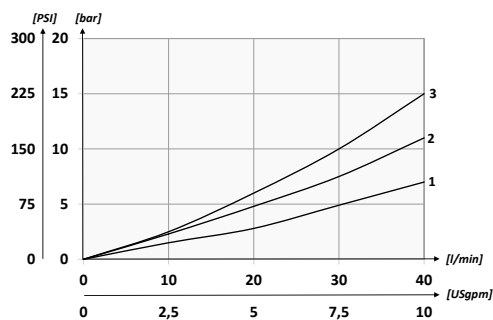
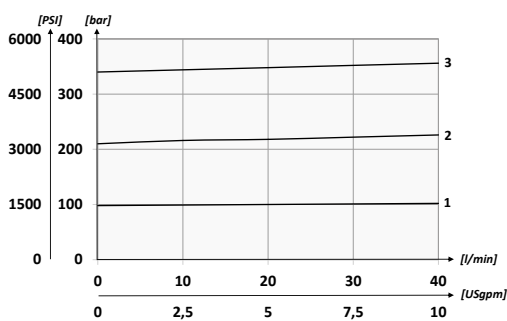
Codice Code	A	Portata max Max flow l/min-USgpm	Pressione max Max pressure bar/PSI	B	C	D	E	F	G	H	L	M	O-Ring	Peso approssimativo Approx weight kg/lb	Rapporto di pilotaggio Pilot ratio
VRDF380	BSPP3/8	35 (9.2)	350 (5075)	10 (0.39)	32 (1.26)	32 (1.26)	62 (2.44)	70 (2.76)	6.5 (0.26)	34 (1.34)	60 (2.36)	96 (3.78)	9,19 x 2,62	1,11 (2.44)	1:7
VRDF120	BSPP1/2	50 (13.2)		14.5 (0.57)	38 (1.50)	34 (1.34)	65 (2.56)	80 (3.15)	8.5 (0.33)		70 (2.76)	110 (4.33)	15,54 x 2,62	1,85 (4)	1:3,2 1:7



Schema idraulico - Hydraulic circuit



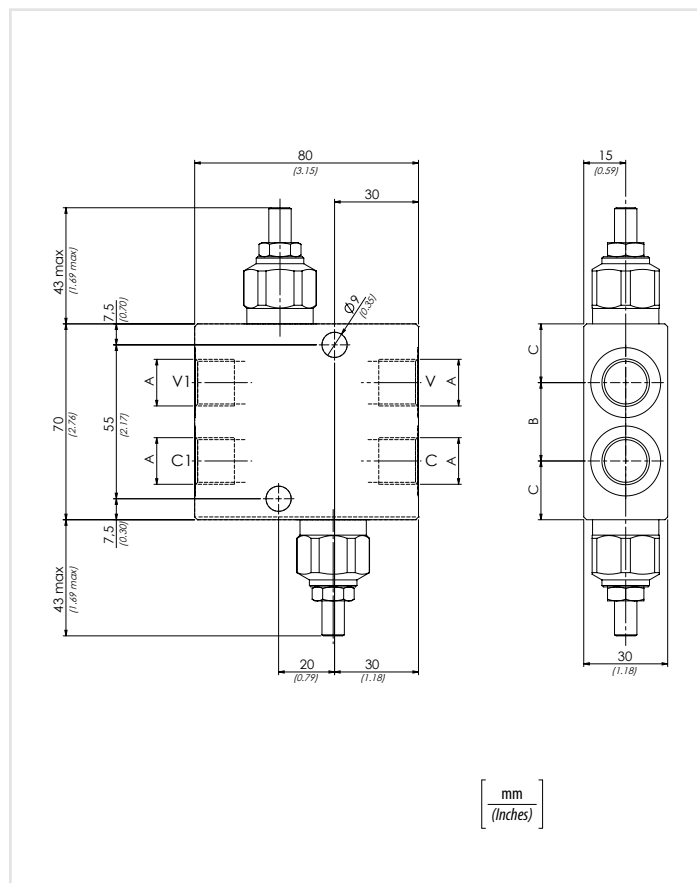
Performances



Codice ordinazione Ordering code

01	02	03
VBDC		

01	Valvole antiurto doppie incrociate (Double cross line direct acting relief valves)	VBDC
02	Dimensione (Size)	BSPP3/8
		BSPP1/2
03	Molla (Spring) 10/90 bar (145/1305 PSI) max	Incremento pressione al giro (Press. increase) 12 bar/al giro (174 PSI/turn)
	Molla (Spring) 20/210 bar (290/3045 PSI) max	Incremento pressione al giro (Press. increase) 30 bar/al giro (435 PSI/turn)
	Molla (Spring) 70/350 bar (1015/5075 PSI) max	Incremento pressione al giro (Press. increase) 65 bar/al giro (943 PSI/turn)



Dati tecnici - Technical data

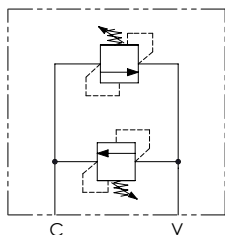
olio idraulico/Mineral oil	ISO 6743/4 (DIN 51524)		
Viscosità olio/Oil viscosity	15-250 mm ² /s (15 to 250 cSt)		
Classe di contaminazione max con filtro Max contamination index with filter	ISO 4406:1999 Classe 19/17/14		
Temperatura dell'olio/Oil temperature	-20°C +80°C	-4°F + 176°F	
Temperatura ambiente/Ambient temperature	-20°C +50°C	-4°F + 122°F	
È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm) It is necessary a filter use to protect the valve (advised filtration 15 µm)			

Caratteristiche tecniche - Technical characteristics

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	BSPP3/8	40 (10.6)	350 (5075)	28 (1.10)	21 (0.83)	1,18 (2.60)	VMD40S
VBDC120	BSPP1/2			33 (1.30)	18,5 (0.73)		



Schema idraulico - Hydraulic circuit



Codice ordinazione Ordering code

01	02	03
DCA		

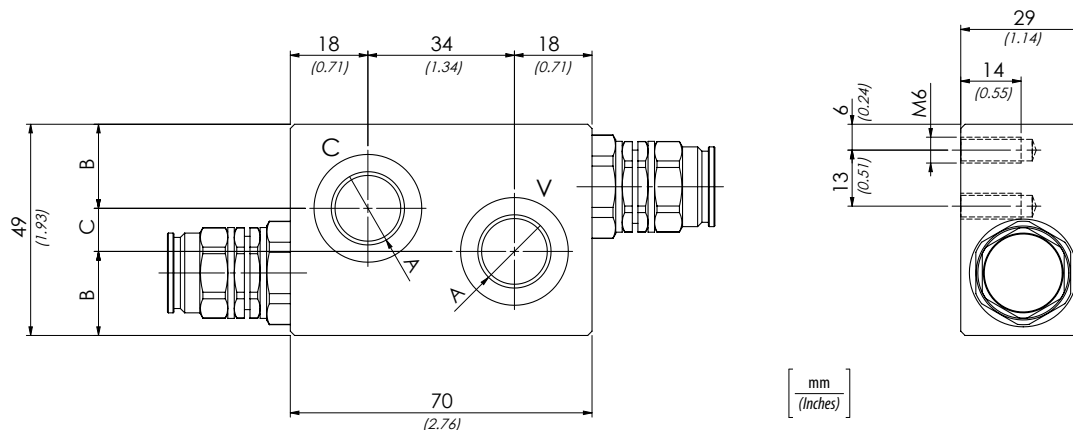
01	Valvole antiurto doppie incrociate (Double cross line direct acting relief valves)	DCA
02	Dimensione (Size)	BSPP1/4 140
		BSPP3/8 380
03	Molla (Spring) 10/40 bar (145/580 PSI) max	Incremento pressione al giro (Press. increase) 12 bar/al giro (174 PSI/turn) 1
	Molla (Spring) 20/110 bar (290/1595 PSI) max	Incremento pressione al giro (Press. increase) 35 bar/al giro (508 PSI/turn) 2
	Molla (Spring) 30/210 bar (435/3045 PSI) max	Incremento pressione al giro (Press. increase) 65 bar/al giro (943 PSI/turn) 3
	Molla (Spring) 40/350 bar (580/5075 PSI) max	Incremento pressione al giro (Press. increase) 120 bar/al giro (1740 PSI/turn) 4

Caratteristiche tecniche - Technical characteristics

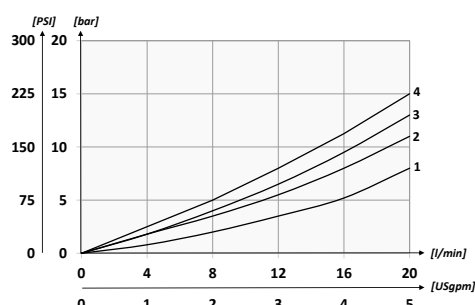
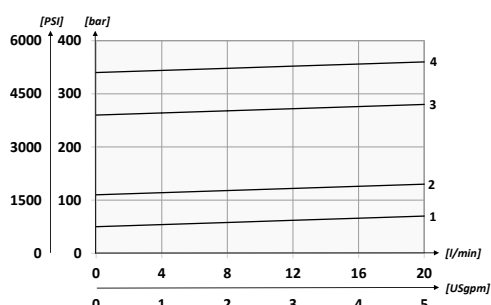
Codice Code	A	Portata max Max flow l/min-USgpm	Pressione max Max pressure bar/PSI	B	C	Peso approssimativo Approx weight kg/lb	Valvola tipo Type of valve
DCA140	BSPP1/4	20 (5.3)	350 (5075)	22 (0.87)	6 (0.24)	0,8 (1.8)	VMD1
DCA380	BSPP3/8			20 (0.79)	10 (0.39)		

Dati tecnici - Technical data

Olio idraulico/Mineral oil	ISO 6743/4 (DIN 51524)
Viscosità olio/Oil viscosity	15-250 mm²/s (15 to 250 cSt)
Classe di contaminazione max con filtro Max contamination index with filter	ISO 4406:1999 Classe 19/17/14
Temperatura dell'olio/Oil temperature	-20°C +80°C -4°F + 176°F
Temperatura ambiente/Ambient temperature	-20°C +50°C -4°F + 122°F
È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm) It is necessary a filter use to protect the valve (advised filtration 15 µm)	

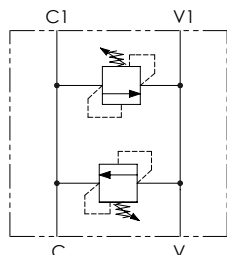


Performances





Schema idraulico - Hydraulic circuit



Caratteristiche tecniche - Technical characteristics

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	Ø 21 (BSP1/2)	40 (10.6)	350 (5075)	0,96 (2.11)	VMD40S

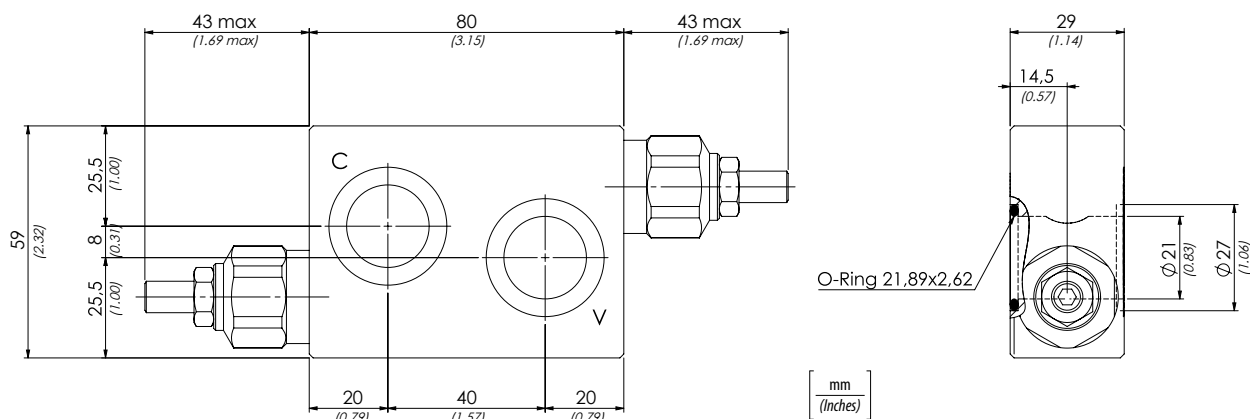
Codice ordinazione Ordering code

01	02	03
DCL	120	

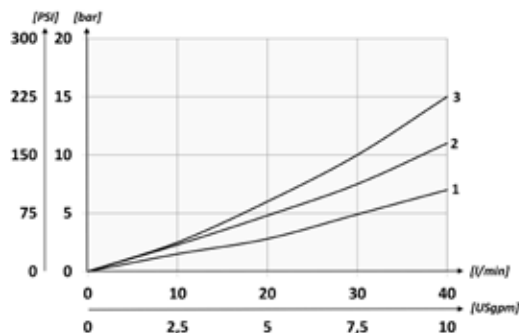
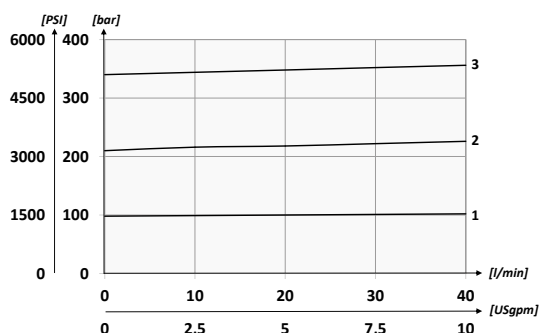
01	Valvole antiurto doppie incrociate (Double cross line direct acting relief valves)	DCL
02	Dimensione (Size)	120
03	Molla (Spring) 10/90 bar (145/1305 PSI) max	Incremento pressione al giro (Press. increase) 12 bar/al giro (174 PSI/turn)
	Molla (Spring) 20/210 bar (290/3045 PSI) max	Incremento pressione al giro (Press. increase) 30 bar/al giro (435 PSI/turn)
	Molla (Spring) 70/350 bar (1015/5075 PSI) max	Incremento pressione al giro (Press. increase) 65 bar/al giro (943 PSI/turn)

Dati tecnici - Technical data

Olio idraulico/Mineral oil	ISO 6743/4 (DIN 51524)
Viscosità olio/Oil viscosity	15-250 mm²/s (15 to 250 cSt)
Classe di contaminazione max con filtro Max contamination index with filter	ISO 4406:1999 Classe 19/17/14
Temperatura dell'olio/Oil temperature	-20°C +80°C -4°F + 176°F
Temperatura ambiente/Ambient temperature	-20°C +50°C -4°F + 122°F
È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm) <i>It is necessary a filter use to protect the valve (advised filtration 15 µm)</i>	

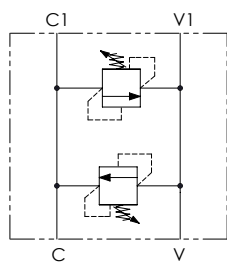


Performances





Schema idraulico - Hydraulic circuit



Caratteristiche tecniche - Technical characteristics

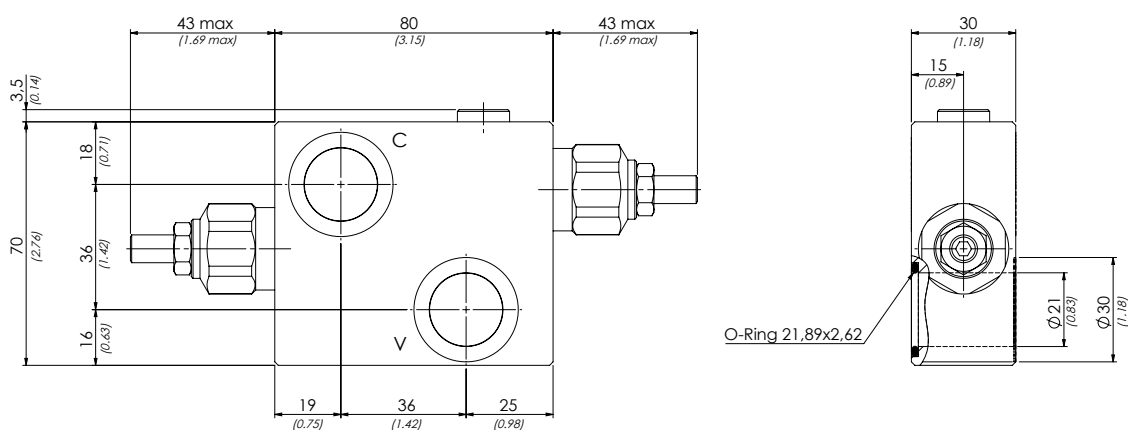
Codice Code	A	Portata max Max flow l/min-USgpm	Pressione max Max pressure bar/PSI	Peso approssimativo Approx weight kg/lb	Valvola tipo Type of valve
DCV120	Ø 21 (BSP1/2)	40 (10.6)	350 (5075)	1,2 (2.7)	VMD405

	01	02	03
Codice ordinazione Ordering code	DCV	120	

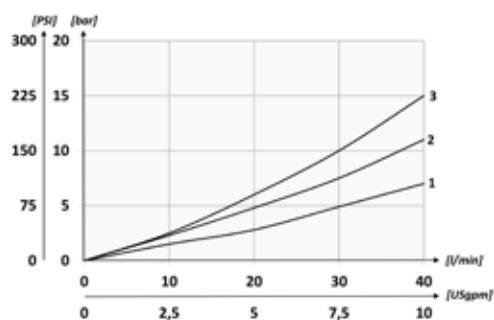
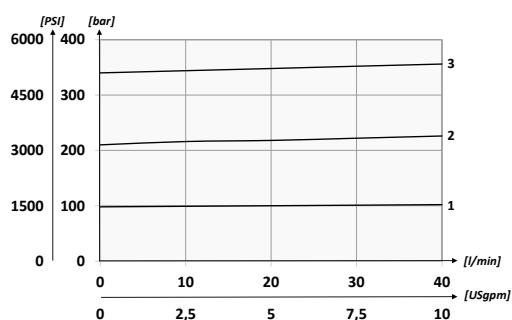
01	Valvole antiurto doppie incrociate (<i>Double cross line direct acting relief valves</i>)		DCV
02	Dimensione (<i>Size</i>)	Ø 21 (BSP1/2)	120
03	Molla (<i>Spring</i>) 10/90 bar (145/1305 PSI) max	Incremento pressione al giro (<i>Press. increase</i>) 12 bar/al giro (174 PSI/turn)	1
	Molla (<i>Spring</i>) 20/210 bar (290/3045 PSI) max	Incremento pressione al giro (<i>Press. increase</i>) 30 bar/al giro (435 PSI/turn)	2
	Molla (<i>Spring</i>) 70/350 bar (1015/5075 PSI) max	Incremento pressione al giro (<i>Press. increase</i>) 65 bar/al giro (943 PSI/turn)	3

Dati tecnici - Technical data

Olio idraulico/Mineral oil	ISO 6743/4 (DIN 51524)
Viscosità olio/Oil viscosity	15-250 mm²/s (15 to 250 cSt)
Classe di contaminazione max con filtro Max contamination index with filter	ISO 4406:1999 Classe 19/17/14
Temperatura dell'olio/Oil temperature	-20°C +80°C -4°F + 176°F
Temperatura ambiente/Ambient temperature	-20°C +50°C -4°F + 122°F
È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm) <i>It is necessary a filter use to protect the valve (advised filtration 15 µm)</i>	

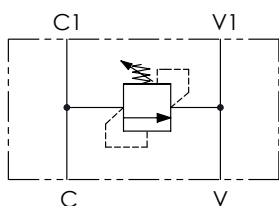


Performances





Schema idraulico - Hydraulic circuit



Caratteristiche tecniche - Technical characteristics

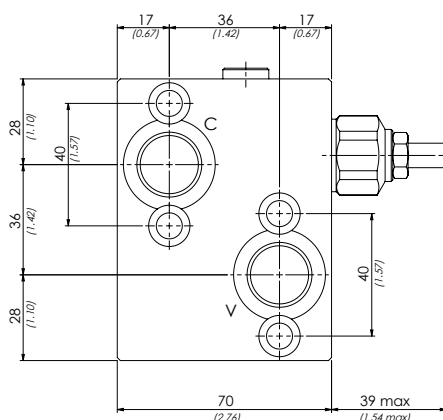
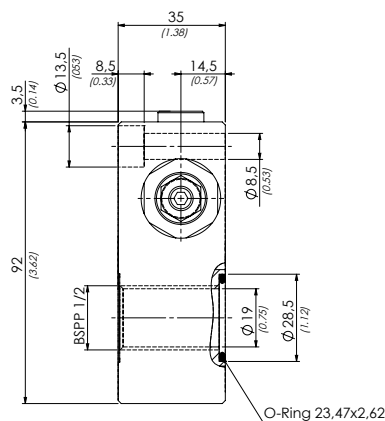
Codice Code	A	Portata max Max flow l/min-USgpm	Pressione max Max pressure bar/PSI	Peso approssimativo Approx weight kg/lb	Valvola tipo Type of valve
SCF120	BSPP1/2	40 (10.6)	350 (5075)	1,65 (3.63)	VMD40S

	01	02	03
Codice ordinazione Ordering code	SCF	120	

01	Valvole antiurto singola (Single line direct acting relief valves)		SCF
02	Dimensione (Size)	BSPP1/2	120
03	Molla (Spring) 10/90 bar (145/1305 PSI) max	Incremento pressione al giro (Press. increase) 12 bar/al giro (174 PSI/turn)	1
	Molla (Spring) 20/210 bar (290/3045 PSI) max	Incremento pressione al giro (Press. increase) 30 bar/al giro (435 PSI/turn)	2
	Molla (Spring) 70/350 bar (1015/5075 PSI) max	Incremento pressione al giro (Press. increase) 65 bar/al giro (943 PSI/turn)	3

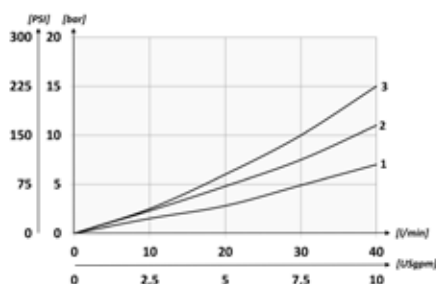
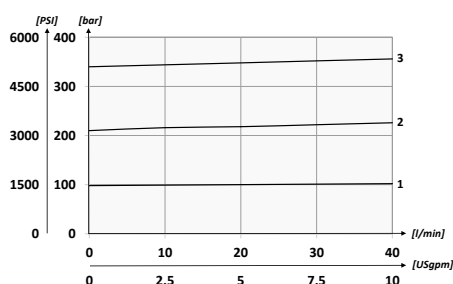
Dati tecnici - Technical data

Olio idraulico/Mineral oil	ISO 6743/4 (DIN 51524)	
Viscosità olio/Oil viscosity	15-250 mm²/s (15 to 250 cSt)	
Classe di contaminazione max con filtro Max contamination index with filter	ISO 4406:1999 Classe 19/17/14	
Temperatura dell'olio/Oil temperature	-20°C +80°C	-4°F + 176°F
Temperatura ambiente/Ambient temperature	-20°C +50°C	-4°F + 122°F
È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm) <i>It is necessary a filter use to protect the valve (advised filtration 15 µm)</i>		



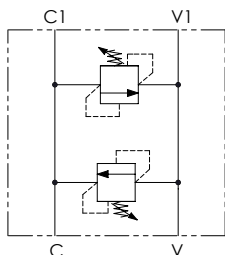
mm
(Inches)

Performances





Schema idraulico - Hydraulic circuit



Caratteristiche tecniche - Technical characteristics

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	BSP1/2	40 (10.6)	350 (5075)	1,5 (3.3)	VMD40S

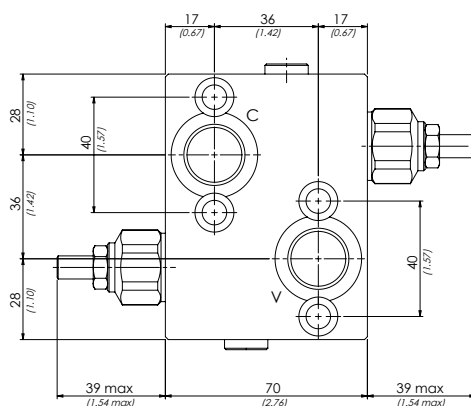
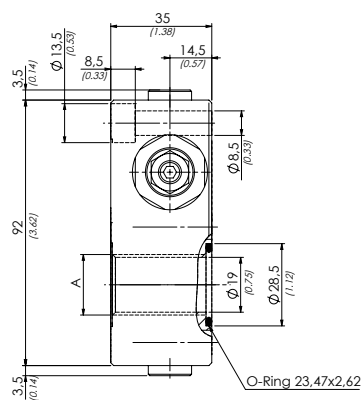
Codice ordinazione Ordering code

01	02	03
DCF		

01	Valvole antiurto doppie incrociate (Double cross line direct acting relief valves)	DCF
02	Dimensione (Size)	BSP1/2
03	Molla (Spring) 10/40 bar (145/580 PSI) max	Incremento pressione al giro (Press. increase) 12 bar/al giro (174 PSI/turn)
	Molla (Spring) 20/210 bar (290/3045 PSI) max	Incremento pressione al giro (Press. increase) 30 bar/al giro (435 PSI/turn)
	Molla (Spring) 70/350 bar (1015/5075 PSI) max	Incremento pressione al giro (Press. increase) 65 bar/al giro (943 PSI/turn)

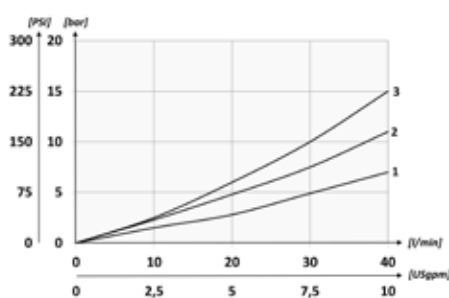
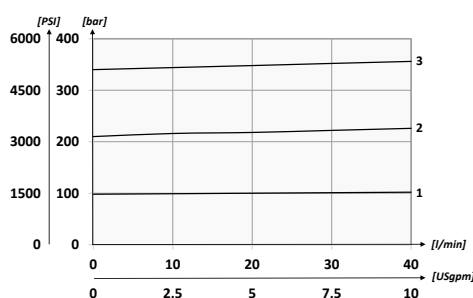
Dati tecnici - Technical data

olio idraulico/Mineral oil	ISO 6743/4 (DIN 51524)
Viscosità olio/Oil viscosity	15-250 mm ² /s (15 to 250 cSt)
Classe di contaminazione max con filtro Max contamination index with filter	ISO 4406:1999 Classe 19/17/14
Temperatura dell'olio/Oil temperature	-20°C +80°C -4°F +176°F
Temperatura ambiente/Ambient temperature	-20°C +50°C -4°F +122°F
È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm) It is necessary a filter use to protect the valve (advised filtration 15 µm)	



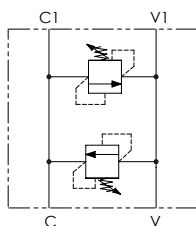
mm
(Inches)

Performances





Schema idraulico - Hydraulic circuit



Caratteristiche tecniche - Technical characteristics

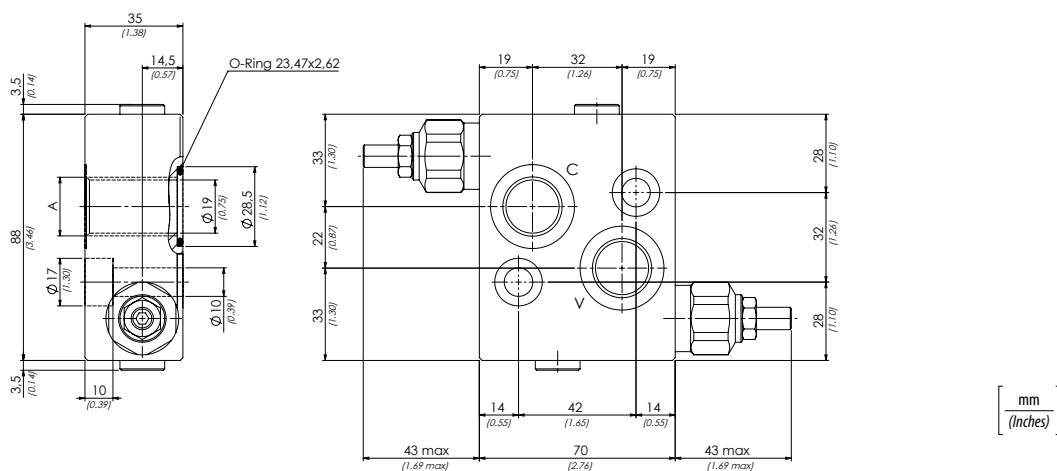
Codice Code	A	Portata max Max flow l/min-USgpm	Pressione max Max pressure bar/PSI	Peso approssimativo Approx weight kg/lb	Valvola tipo Type of valve
DCM120	BSPP1/2	40 (10.6)	350 (5075)	1,45 (3.20)	VMD40S

Codice ordinazione Ordering code	01	02	03
DCM			

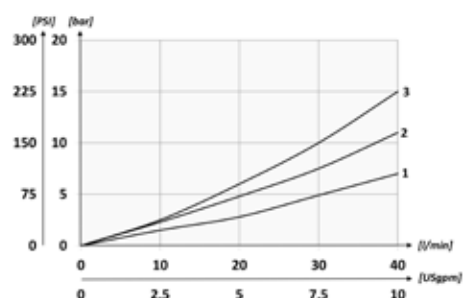
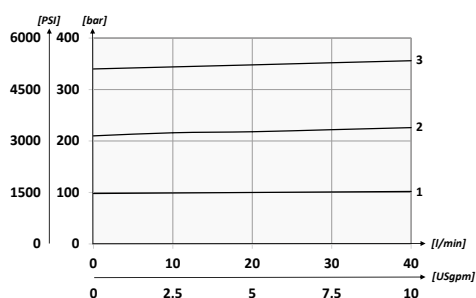
01	Valvole antiurto doppie incrociate (Double cross line direct acting relief valves)	DCM
02	Dimensione (Size)	BSPP1/2
03	Molla (Spring) 10/40 bar (145/580 PSI) max	Incremento pressione al giro (Press. increase) 12 bar/al giro (174 PSI/turn)
	Molla (Spring) 20/210 bar (290/3045 PSI) max	Incremento pressione al giro (Press. increase) 30 bar/al giro (435 PSI/turn)
	Molla (Spring) 70/350 bar (1015/5075 PSI) max	Incremento pressione al giro (Press. increase) 65 bar/al giro (943 PSI/turn)

Dati tecnici - Technical data

Olio idraulico/Mineral oil	ISO 6743/4 (DIN 51524)
Viscosità olio/Oil viscosity	15-250 mm ² /s (15 to 250 cSt)
Classe di contaminazione max con filtro Max contamination index with filter	ISO 4406:1999 Classe 19/17/14
Temperatura dell'olio/Oil temperature	-20°C +80°C -4°F +176°F
Temperatura ambiente/Ambient temperature	-20°C +50°C -4°F +122°F
È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm) It is necessary a filter use to protect the valve (advised filtration 15 µm)	

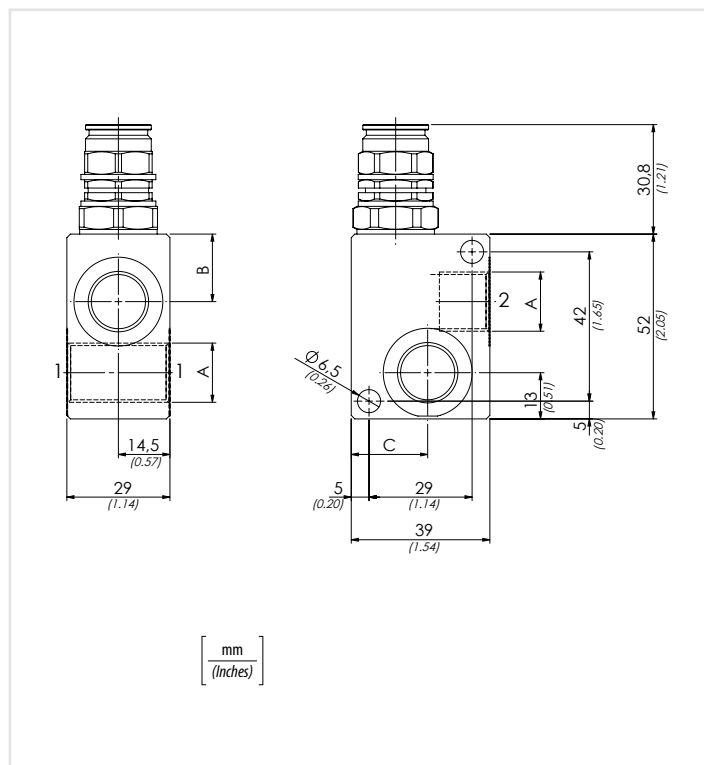
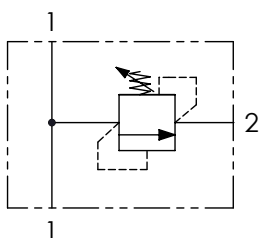


Performances





Schema idraulico - Hydraulic circuit



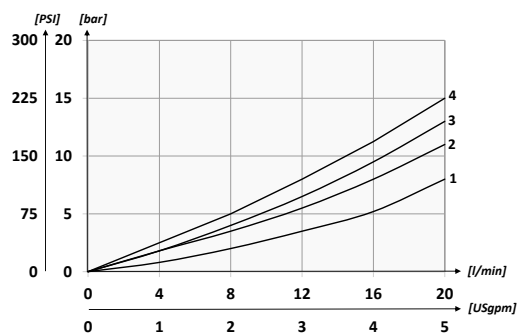
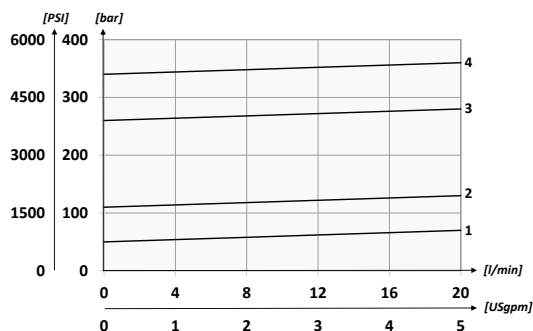
Dati tecnici - Technical data

olio idraulico/Mineral oil	ISO 6743/4 (DIN 51524)		
Viscosità olio/Oil viscosity	15-250 mm ² /s (15 to 250 cSt)		
Classe di contaminazione max con filtro Max contamination index with filter	ISO 4406:1999 Classe 19/17/14		
Temperatura dell'olio/Oil temperature	-20°C +80°C	-4°F + 176°F	
Temperatura ambiente/Ambient temperature	-20°C +50°C	-4°F + 122°F	
È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm) It is necessary a filter use to protect the valve (advised filtration 15 µm)			

01	02	03	04
VMDR1		C	

01	Valvole di massima in linea (Direct acting relief valves)		VMDR1
02	Dimensione (Size)	BSPP1/4	140
		BSPP3/8	380
03	Regolazione (Setting)	Chiave (Screw)	C
04	Molla (Spring) 10/40 bar (145/580 PSI) max	Incremento pressione al giro (Press. increase) 20 bar/al giro (290 PSI/turn)	1
	Molla (Spring) 20/110 bar (290/1595 PSI) max	Incremento pressione al giro (Press. increase) 40 bar/al giro (580 PSI/turn)	2
	Molla (Spring) 30/210 bar (435/3045 PSI) max	Incremento pressione al giro (Press. increase) 70 bar/al giro (1015 PSI/turn)	3
	Molla (Spring) 40/350 bar (580/5075 PSI) max	Incremento pressione al giro (Press. increase) 130 bar/al giro (1885 PSI/turn)	4

Performances

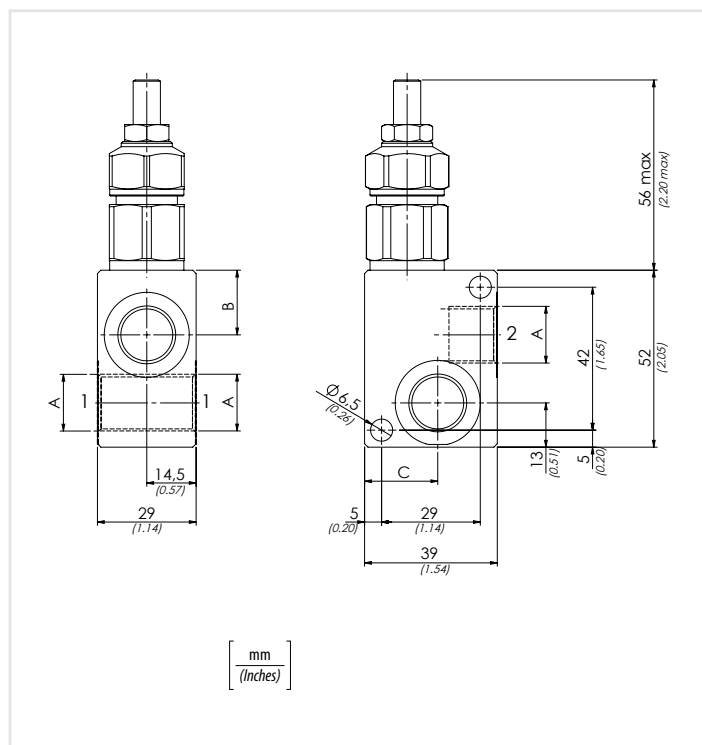
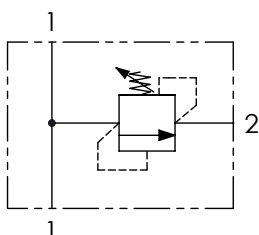


Caratteristiche tecniche - Technical characteristics

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 (5.3)	350 (5075)	17 (0.67)	20 (0.79)	0,47 (1.03)
VMDR1380	BSPP3/8			19 (0.75)	18 (0.71)	0,43 (0.95)



Schema idraulico - Hydraulic circuit



Dati tecnici - Technical data

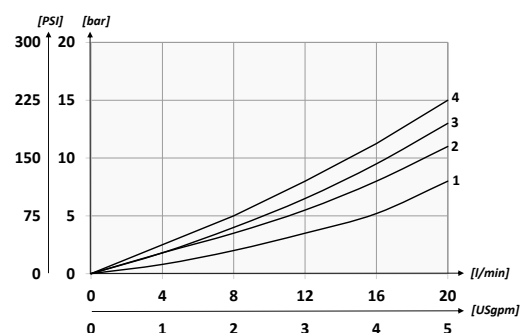
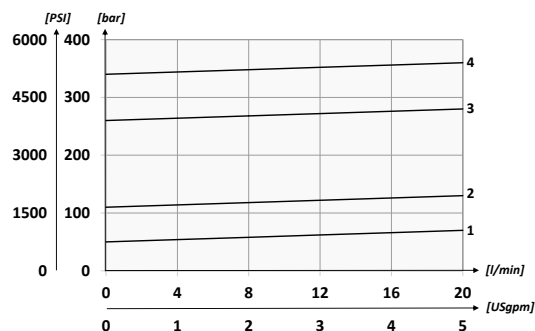
olio idraulico/Mineral oil	ISO 6743/4 (DIN 51524)		
Viscosità olio/Oil viscosity	15-250 mm ² /s (15 to 250 cSt)		
Classe di contaminazione max con filtro Max contamination index with filter	ISO 4406:1999 Classe 19/17/14		
Temperatura dell'olio/Oil temperature	-20°C +80°C	-4°F +176°F	
Temperatura ambiente/Ambient temperature	-20°C +50°C	-4°F +122°F	
È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm) It is necessary a filter use to protect the valve (advised filtration 15 µm)			

01	02	03	04
VMDR10			

Codice ordinazione Ordering code

01	Valvole di massima in linea (Direct acting relief valves)			VMDR10
02	Dimensione (Size)	BSPP1/4		140
		BSPP3/8		380
03	Regolazione (Setting)	Chiave (Screw)		C
		Volantino (Handknob) Codice (Code) 81300109		V
04	Molla (Spring) 10/40 bar (145/580 PSI) max	Incremento pressione al giro (Press. increase) 12 bar/al giro (174 PSI/turn)		1
	Molla (Spring) 20/110 bar (290/1595 PSI) max	Incremento pressione al giro (Press. increase) 35 bar/al giro (508 PSI/turn)		2
	Molla (Spring) 30/210 bar (435/3045 PSI) max	Incremento pressione al giro (Press. increase) 62 bar/al giro (899 PSI/turn)		3
	Molla (Spring) 40/350 bar (580/5075 PSI) max	Incremento pressione al giro (Press. increase) 120 bar/al giro (1740 PSI/turn)		4

Performances

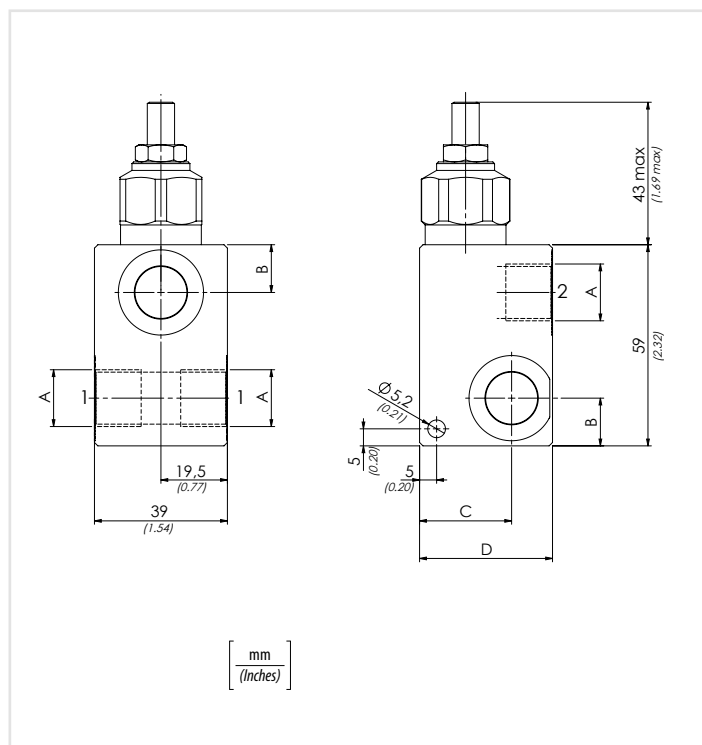
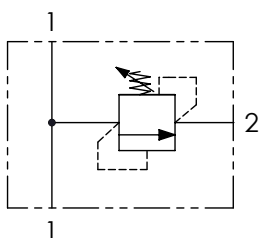


Caratteristiche tecniche - Technical characteristics

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 (5.3)	350 (5075)	17 (0.67)	20 (0.79)	0,51 (1.12)
VMDR10380	BSPP3/8			19 (0.75)	18 (0.71)	0,47 (1.03)



Schema idraulico - Hydraulic circuit



Dati tecnici - Technical data

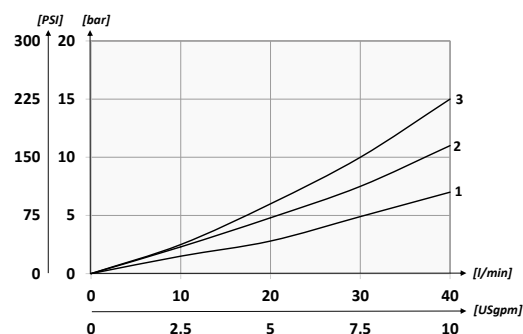
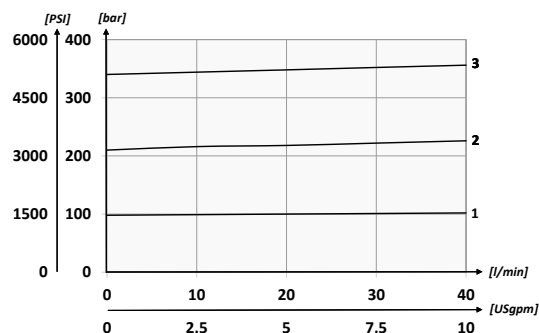
olio idraulico/Mineral oil	ISO 6743/4 (DIN 51524)		
Viscosità olio/Oil viscosity	15-250 mm ² /s (15 to 250 cSt)		
Classe di contaminazione max con filtro Max contamination index with filter	ISO 4406:1999 Classe 19/17/14		
Temperatura dell'olio/Oil temperature	-20°C +80°C	-4°F +176°F	
Temperatura ambiente/Ambient temperature	-20°C +50°C	-4°F +122°F	
È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm) It is necessary a filter use to protect the valve (advised filtration 15 µm)			

01	02	03	04
VMDR40			

Codice ordinazione Ordering code

01	Valvole di massima in linea (Direct acting relief valves)			VMDR40
02	Dimensione (Size)	BSPP3/8	380	
		BSPP1/2	120	
03	Regolazione (Setting)	Chiave (Screw)	C	
		Volantino (Handknob) Codice (Code) 81300109	V	
04	Molla (Spring) 10/90 bar (145/1305 PSI) max	Incremento pressione (Press. increase) 12 bar/al giro (174 PSI/turn)	1	
	Molla (Spring) 20/210 bar (290/3045 PSI) max	Incremento pressione al (Press. increase) 30 bar/al giro (435 PSI/turn)	2	
	Molla (Spring) 70/350 bar (1015/5075 PSI) max	Incremento pressione (Press. increase) 65 bar/al giro (943 PSI/turn)	3	

Performances

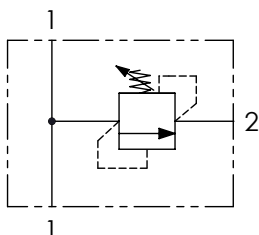


Caratteristiche tecniche - Technical characteristics

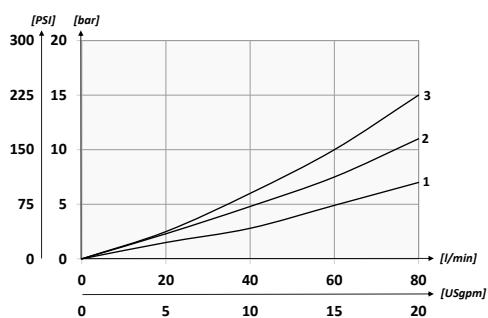
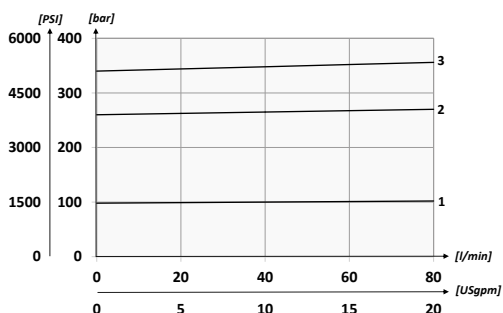
Codice Code	A	Portata max Max flow l/min-USgpm	Pressione max Max pressure bar/PSI	B	C	D	Peso approssimativo Approx weight kg/lb
VMDR40380	BSPP3/8	40 (10.6)	350 (5075)	14 (0.55)	27 (1.06)	39 (1.54)	0,51 (1.12)
VMDR40120	BSPP1/2			15 (0.59)	29,5 (1.16)	45 (1.77)	



Schema idraulico - Hydraulic circuit



Performances



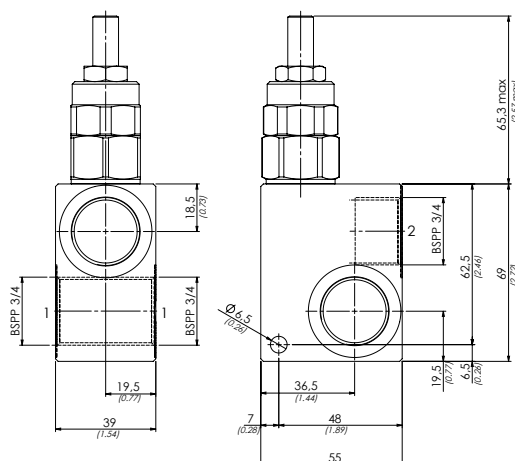
Dati tecnici - Technical data

olio idraulico/Mineral oil	ISO 6743/4 (DIN 51524)		
Viscosità olio/Oil viscosity	15-250 mm ² /s (15 to 250 cSt)		
Classe di contaminazione max con filtro Max contamination index with filter	ISO 4406:1999 Classe 19/17/14		
Temperatura dell'olio/Oil temperature	-20°C +80°C	-4°F +176°F	
Temperatura ambiente/Ambient temperature	-20°C +50°C	-4°F +122°F	
È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm) It is necessary a filter use to protect the valve (advised filtration 15 µm)			

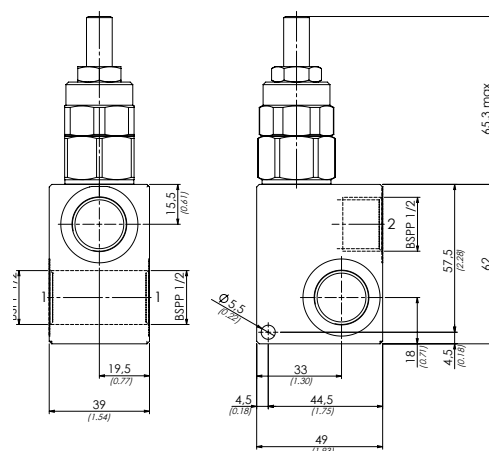
Codice ordinazione Ordering code

01	02	03	04
VMDR90			

01	Valvole di massima in linea (Direct acting relief valves)		VMDR90
02	Dimensione (Size)	BSPP1/2	120
		BSPP3/4	340
03	Regolazione (Setting)	Chiave (Screw)	C
		Volantino (Handknob) Codice (Code) 81300023	V
04	Molla (Spring) 10/100 bar (145/1450 PSI) max	Incremento pressione al giro (Press. increase) 23 bar/al giro (334 PSI/turn)	1
	Molla (Spring) 20/250 bar (290/3625 PSI) max	Incremento pressione al giro (Press. increase) 40 bar/al giro (580 PSI/turn)	2
	Molla (Spring) 50/350 bar (725/5075 PSI) max	Incremento pressione al giro (Press. increase) 90 bar/al giro (1305 PSI/turn)	3

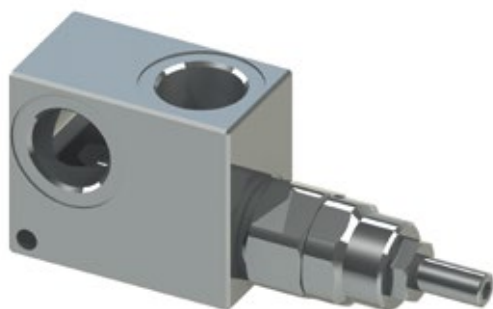


[mm
(Inches)]

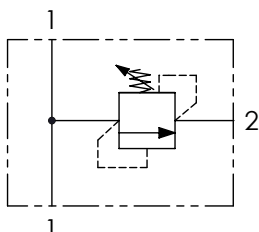


Caratteristiche tecniche - Technical characteristics

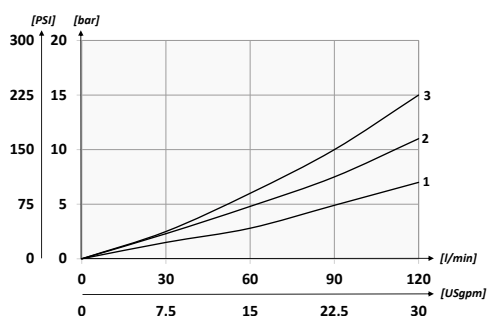
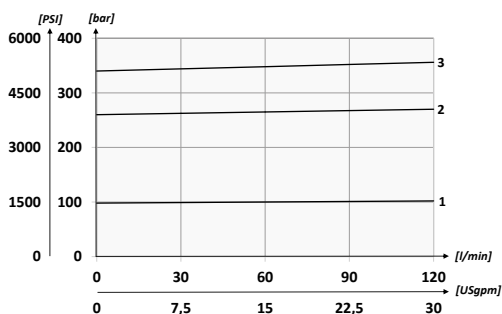
Codice Code	Portata max (l/min) Max flow (USgpm)	Pressione max (bar) Max pressure (PSI)	Peso approssimativo (kg) Approx weight (lb)
VMDR90120	80 (21.1)	350 (5075)	0,65 (1.43)
VMDR90340			1 (2.2)



Schema idraulico - Hydraulic circuit



Performances



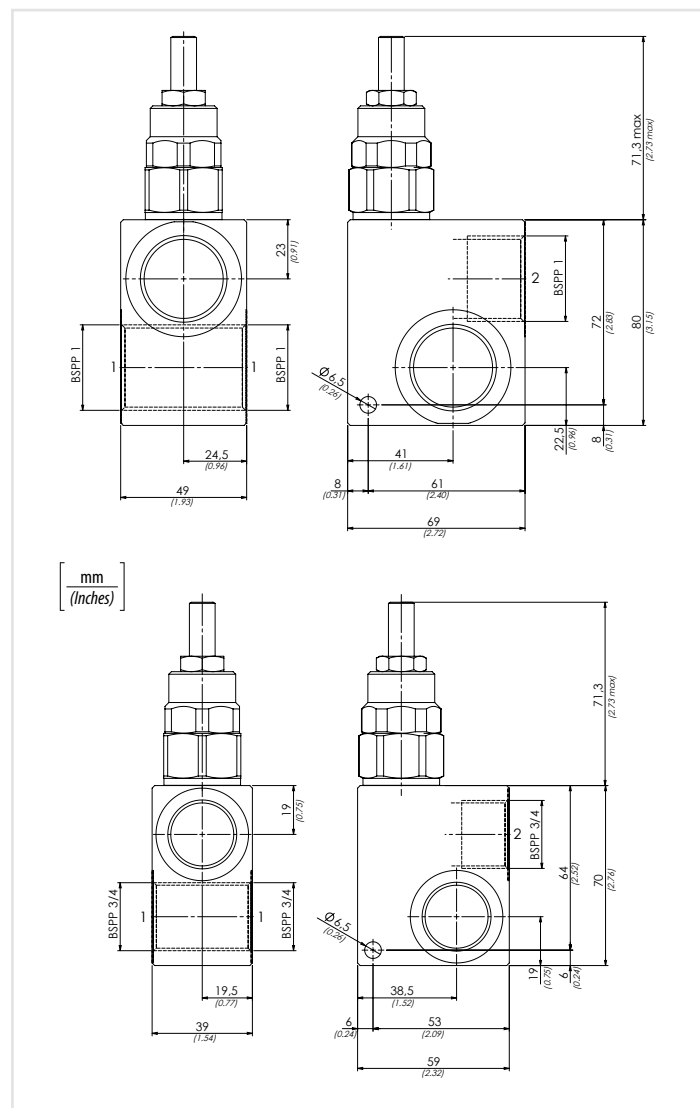
Dati tecnici - Technical data

olio idraulico/Mineral oil	ISO 6743/4 (DIN 51524)		
Viscosità olio/Oil viscosity	15-250 mm ² /s (15 to 250 cSt)		
Classe di contaminazione max con filtro Max contamination index with filter	ISO 4406:1999 Classe 19/17/14		
Temperatura dell'olio/Oil temperature	-20°C +80°C	-4°F + 176°F	
Temperatura ambiente/Ambient temperature	-20°C +50°C	-4°F + 122°F	
È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm) It is necessary a filter use to protect the valve (advised filtration 15 µm)			

Codice ordinazione Ordering code

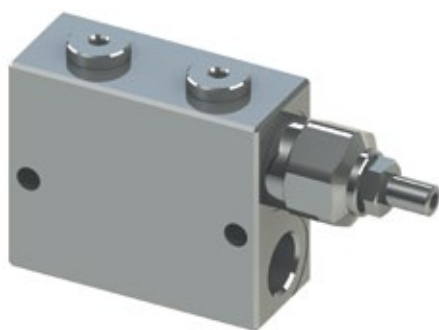
01	02	03	04
VMDR120			

01	Valvole di massima in linea (Direct acting relief valves)			VMDR120
02	Dimensione (Size)	BSPP3/4	340	
		BSPP1	100	
03	Regolazione (Setting)	Chiave (Screw)	C	
		Volantino (Handknob) Codice (Code) 81300023	V	
04	Molla (Spring) 10/100 bar (145/1450 PSI) max	Incremento pressione al giro (Press. increase) 20 bar/al giro (290 PSI/turn)	1	
	Molla (Spring) 20/250 bar (290/3625 PSI) max	Incremento pressione al giro (Press. increase) 45 bar/al giro (653 PSI/turn)	2	
	Molla (Spring) 40/350 bar (580/5075 PSI) max	Incremento pressione al giro (Press. increase) 50 bar/al giro (725 PSI/turn)	3	

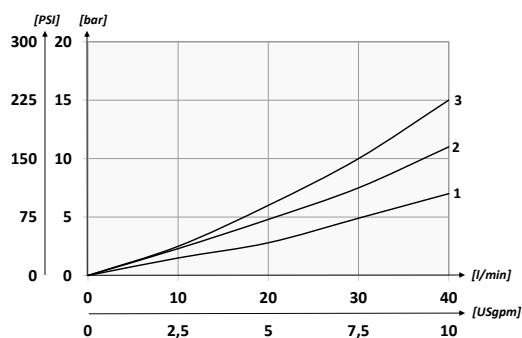
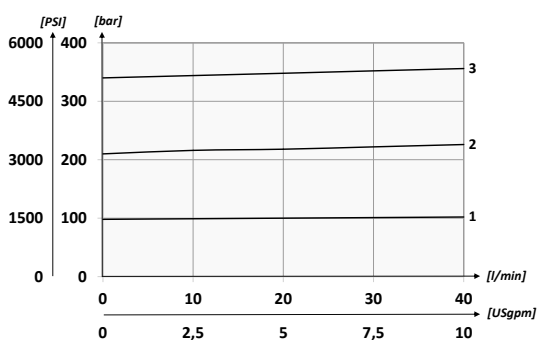


Caratteristiche tecniche - Technical characteristics

Codice Code	Portata max (l/min) Max flow (USgpm)	Pressione max (bar) Max pressure (PSI)	Peso approssimativo (kg) Approx weight (lb)
VMDR120340	120 (31.7)	350 (5075)	1,1 (2.42)
VMDR120100			1,7 (3.74)



Performances

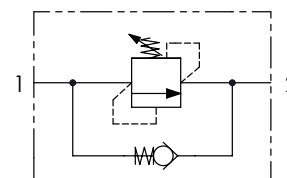


Codice ordinazione Ordering code

01	02	03
VSL		

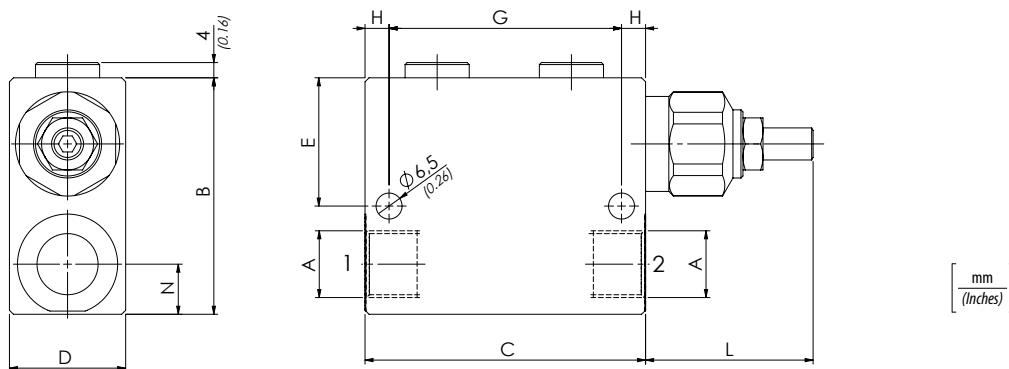
01	Valvole di sequenza dirette (In-line direct sequence valves)			VSL
02	Dimensione (Size)	BSPP1/4		140
		BSPP3/8		380
		BSPP1/2		120
03	Molla (Spring) 20/110 bar (290/1595 PSI) max	Incremento pressione al giro (Press. increase) 35 bar/al giro (508 PSI/turn)	BSPP1/4	1
	Molla (Spring) 10/90 bar (145/1305 PSI) max	Incremento pressione al giro (Press. increase) 12 bar/al giro (174 PSI/turn)	BSPP3/8-BSPP1/2	
	Molla (Spring) 30/210 bar (435/3045 PSI) max	Incremento pressione al giro (Press. increase) 62 bar/al giro (899 PSI/turn)	BSPP1/4	2
	Molla (Spring) 20/210 bar (290/3045 PSI) max	Incremento pressione al giro (Press. increase) 30 bar/al giro (435 PSI/turn)	BSPP3/8-BSPP1/2	
	Molla (Spring) 40/350 bar (580/5075 PSI) max	Incremento pressione al giro (Press. increase) 120 bar/al giro (1740 PSI/turn)	BSPP1/4	3
	Molla (Spring) 70/350 bar (1015/5075 PSI) max	Incremento pressione al giro (Press. increase) 65 bar/al giro (943 PSI/turn)	BSPP3/8-BSPP1/2	

Schema idraulico - Hydraulic circuit



Dati tecnici - Technical data

Olio idraulico/Mineral oil	ISO 6743/4 (DIN 51524)	
Viscosità olio/Oil viscosity	15-250 mm²/s (15 to 250 cSt)	
Classe di contaminazione max con filtro <i>Max contamination index with filter</i>	ISO 4406:1999 Classe 19/17/14	
Temperatura dell'olio/Oil temperature	-20°C + 80°C	-4°F + 176°F
Temperatura ambiente/Ambient temperature	-20°C + 50°C	-4°F + 122°F
È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm) <i>It is necessary a filter use to protect the valve (advised filtration 15 µm)</i>		



Caratteristiche tecniche - Technical characteristics

Codice Code	A	Portata max (l/min) Max flow (USgpm)	Pressione max (bar) Max pressure (PSI)	B	C	D	E	G	L	N	H	P	Peso approssimativo (kg) Approx weight (lb)
VSL140	BSPP1/4	20 (5.3)	350 (5075)	60 (2.36)	60 (0.98)	25 (0.98)	35.5 (1.40)	49 (1.93)	53 (2.09)	12 (0.47)	20 (0.79)	5.5 (0.22)	0,72 (1.58)
VSL380	BSPP3/8	40 (10.6)		70 (2.76)	70 (2.76)	30 (1.18)	32.5 (1.28)	58 (2.28)	43 (1.69)	13 (0.51)	17 (0.67)	6.5 (0.26)	0,89 (1.96)
VSL120	BSPP1/2			70 (2.76)			35 (1.38)			17 (0.67)			1 (2.21)