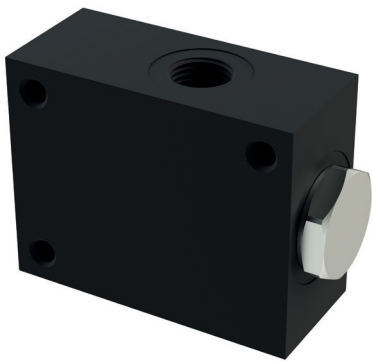
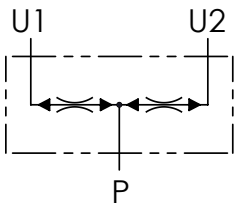


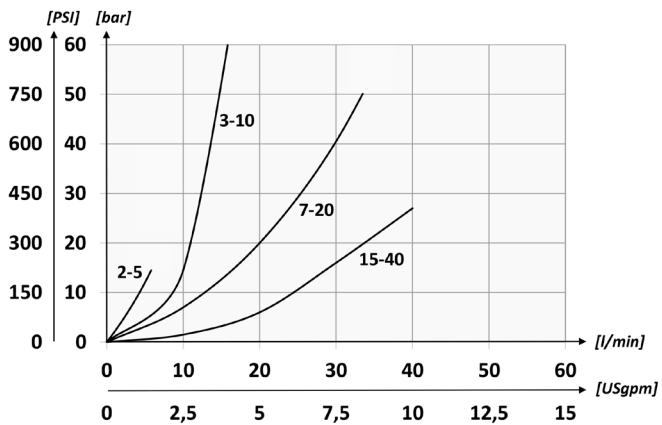


SCHEMA IDRAULICO / HYDRAULIC CIRCUIT

**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 - Environment 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



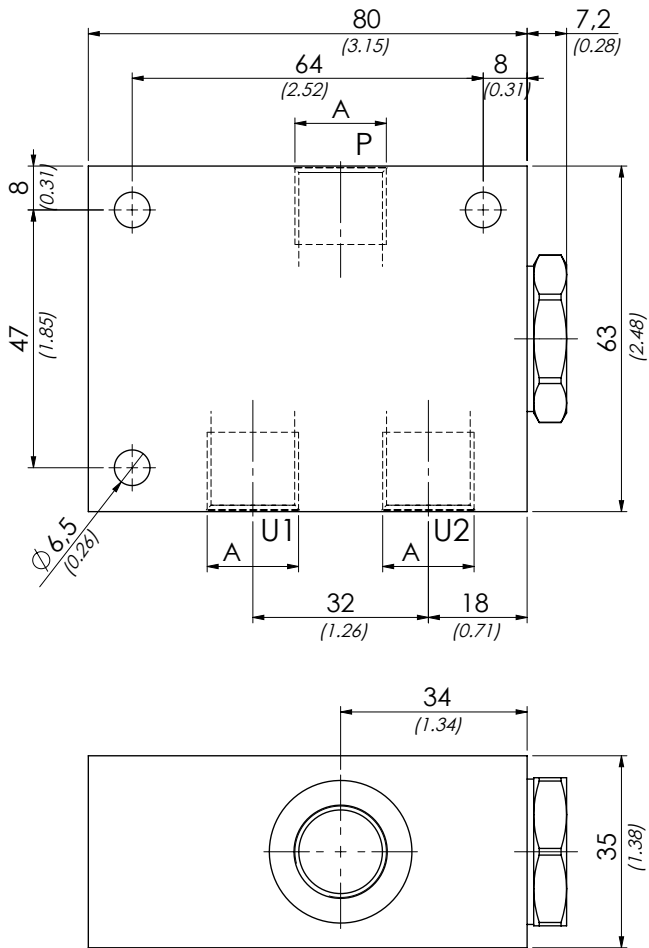
CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	PORTATA MAX MAX FLOW l/min-USgpm	PRESSIONE MAX MAX PRESSURE bar-PSI	PESO APPROX APPROX WEIGHT kg-lbt
DRF10	40 (10.6)	250 (3625)	0,52 (1.14)

CODICE ORDINAZIONE
ORDERING CODE

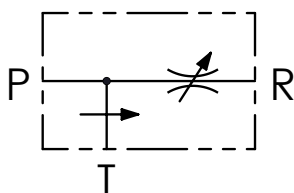
01	02	03	04
DRF10			

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)	1
		3-10 (0.8-2.6)	2
		7-20 (1.8-5.2)	3
		15-40 (3.9-10.4)	4
03	CONNESSIONE P (PORT P)	BSPP 3/8	380
		BSPP 1/2	120
04	CONNESSIONE U1/U2 (PORT U1/U2)	BSPP 3/8	380
		BSPP 1/2	120


$$\left[\frac{\text{mm}}{(\text{Inches})} \right]$$



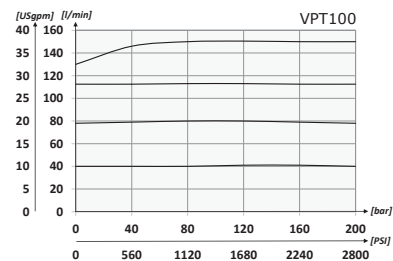
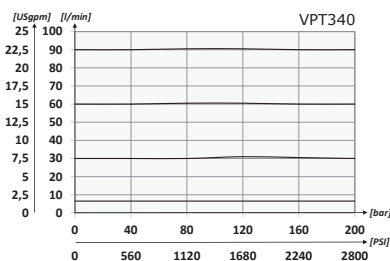
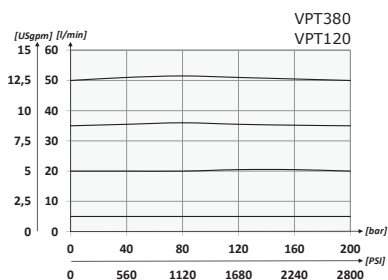
SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



DATI TECNICI / TECHNICAL DATA

Oil 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 - Environment 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

TIPO TYPE	A	PORTATA MAX MAX FLOW l/min-USgpm	PRESSIONE MAX MAX PRESSURE bar-PSI	B	C	D	E	F	G	H	I	L	M	N	S	U	Z	PESO APPROX (kg) APPROX WEIGHT (lb)
VPT380	BSPP 3/8	50 (13.2)	250 (3625)	90 (3.54)	89,5 (35.24)	39,5 (15.55)	47,5 (1.87)	30 (1.18)	42 (1.65)	64 (2.52)	54 (2.13)	6 (0.24)	78 (3.07)	36,5 (1.44)	6,5 (0.26)	40 (1.57)	/	1,39 (3.06)
VPT120	BSPP 1/2	90 (23.8)																1,37 (3.02)
VPT340	BSPP 3/4	150 (39.6)		110 (4.33)	110 (4.33)	50 (1.97)	49,5 (1.95)	35 (1.38)	50 (1.97)	88 (3.46)	63,5 (2.50)	8,5 (0.33)	100 (3.70)	34,7 (1.37)	8,5 (0.33)	44 (1.73)	/	1,94 (4.28)
VPT100	BSPP 1	240 (63.4)					52,5 (2.07)	47 (1.85)	/	/	/	10 (0.39)	/	36,5 (1.44)	44 (1.73)	87 (3.45)		2,05 (4.52)

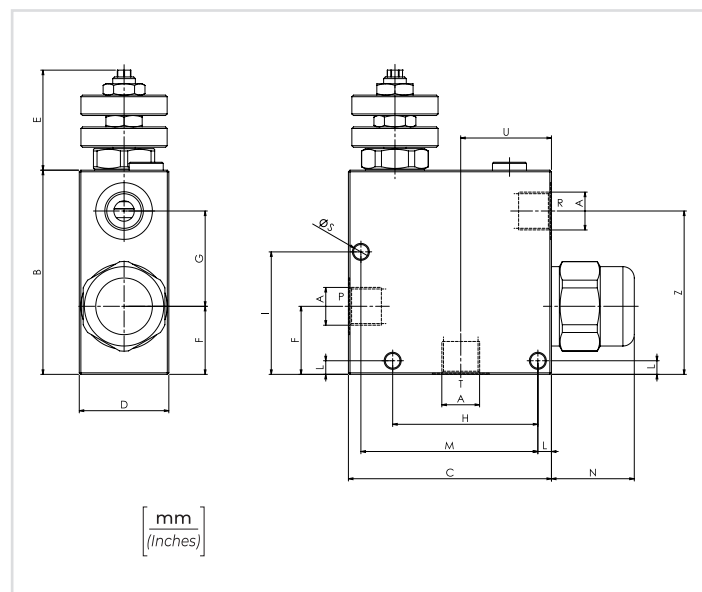
CODICE ORDINAZIONE ORDERING CODE

01	02	03
VPT		V

01	REGOLATORI DI FLUSSO 3 VIE - COMPENSATI, CON ECCEDEXENZA IN SCARICO (3 WAYS FLOW CONTROL VALVES - PRESSURE COMPENSATED, EXCEEDING FLOW TO TANK)		VPT
02	DIMENSIONE (SIZE)	BSPP 3/8	380
		BSPP 1/2	120
		BSPP 3/4	340
		BSPP 1	100
03	REGOLAZIONE (SETTING)	Volantino (Hand wheel)	V

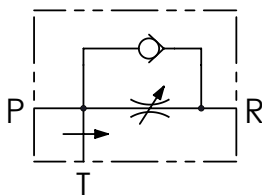
PORTATA MASSIMA L/MIN - MAX FLOW USGPM

50 L/MIN CON 30 L/MIN IN R (13,3 USGPM WITH 8 USGPM IN R)	380
80 L/MIN CON 50 L/MIN IN R (21,3 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
240 L/MIN CON 150 L/MIN IN R (64 USGPM WITH 40 USGPM IN R)	100





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 - Environment 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

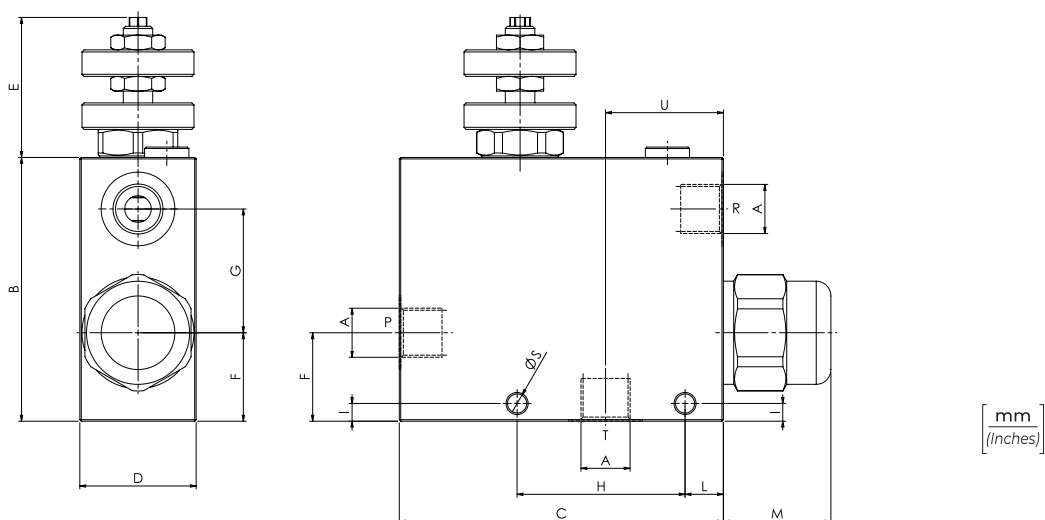
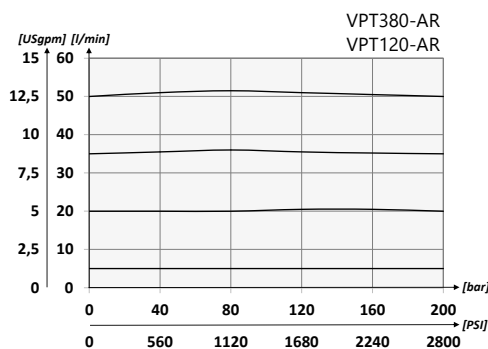
01	02	03	04
VPT		V	AR

01	REGOLATORI DI FLUSSO 3 VIE - COMPENSATI, CON ECCEDEXENZA N SCARICO E VALVOLA DI RITEGNO PER FLUSSO INVERSO 3 WAYS FLOW CONTROL VALVES - PRESSURE COMPENSATED, EXCEEDING FLOW TO TANK AND CHECK VALVE FOR FREE REVERSE FLOW		VPT
02	DIMENSIONE (SIZE)	BSPP 3/8	380
		BSPP 1/2	120
03	REGOLAZIONE (SETTING)	Volantino (Hand wheel)	V
04	Con valvola di ritegno per flusso inverso (check valvefor free reverse flow)		AR

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
80 L/MIN CON 50 L/MIN IN R (21,3 USGPM WITH 13,3 USGPM IN R)	120

PERFORMANCES

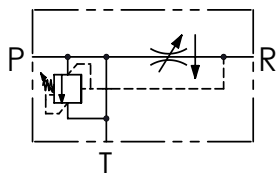


CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

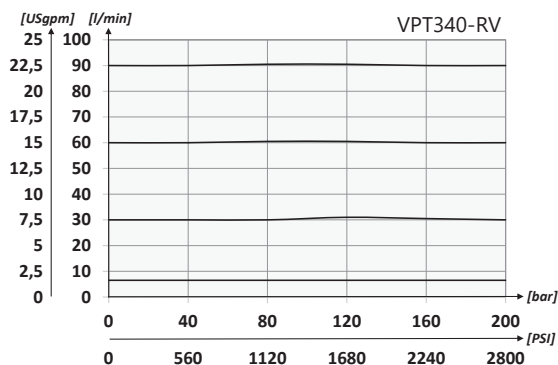
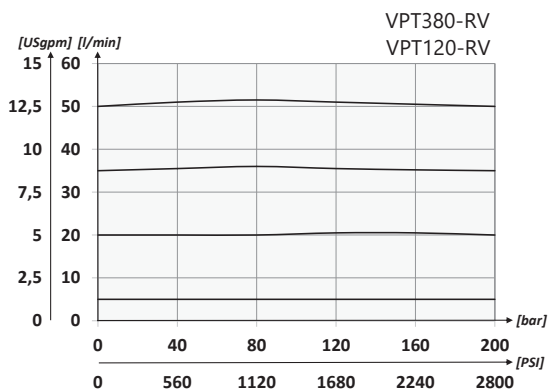
CODICE CODE	A	PORTATA MAX MAX FLOW l/min-USgpm	PRESSIONE MAX MAX PRESSURE bar-PSI	B	C	D	E	F	G	H	I	L	M	S	U	PESO APPROX APPROX WEIGHT kg-lbt
VPT380-AR	BSPP 3/8	50 (13.2)	250 (3625)	89,5 (3.52)	110 (4.33)	39,5 (15.55)	47,5 (1.87)	30 (1.18)	42 (1.65)	57 (2.24)	6 (0.24)	13 (0.50)	36,5 (1.44)	6,5 (0.26)	40 (1.57)	1,60 (3.52)
VPT120-AR	BSPP 1/2	90 (23.8)														1,61 (3.54)



SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



PERFORMANCES



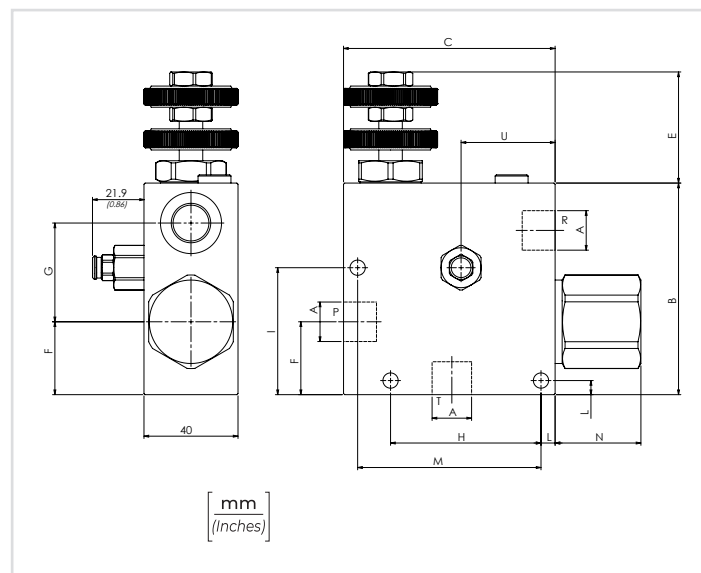
CODICE ORDINAZIONE ORDERING CODE

01	02	03	04
VPT		V	RV

01	REGOLATORI DI FLUSSO 3 VIE - COMPENSATI, CON ECCEDEZZA IN SCARICO (3 WAYS FLOW CONTROL VALVES - PRESSURE COMPENSATED, EXCEEDING FLOW TO TANK AND RELIEF VALVE)		VPT
02	DIMENSIONE (SIZE)	BSPP 3/8	380
		BSPP 1/2	120
		BSPP 3/4	340
03	REGOLAZIONE (SETTING)	Volantino (Hand wheel)	V
04	Valvola di massima - Relief valve (10/250 bar - 145/3625 PSI)		RV

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
80 l/min con 50 l/min in R (21,3 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



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 - Environment 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

TIPO TYPE	A	PORTATA MAX MAX FLOW l/min-USgpm	PRESSIONE MAX MAX PRESSURE bar-PSI	B	C	D	E	F	G	H	I	L	M	N	S	U	PESO APPROX (kg) APPROX WEIGHT (lbt)
VPT380-RV	BSPP 3/8	50 (13.2)	250 (3625)	90 (3.54)	90 (3.54)	40 (1.57)	47,5 (1.87)	31 (1.22)	42 (1.65)	64 (2.52)	54 (2.13)	6 (0.24)	78 (3.07)	36,5 (1.44)	6,5 (0.26)	40 (1.57)	1,15 (2.54)
VPT120-RV	BSPP 1/2	90 (23.8)															
VPT340-RV	BSPP 3/4	150 (39.6)		110 (4.33)	110 (4.33)	50 (1.97)	49,5 (1.95)	35 (1.38)	50 (1.97)	88 (3.46)	63,5 (2.50)	8 (0.31)	94 (3.70)	34,7 (1.37)	8,5 (0.33)	44 (1.73)	

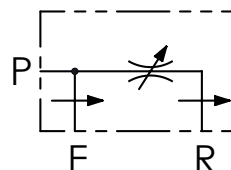


CODICE ORDINAZIONE ORDERING CODE

01	02	03
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)	BSPP 3/8 380 BSPP 1/2 120 BSPP 3/4 340
03	REGOLAZIONE (SETTING)	Volantino (Hand wheel) V

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT

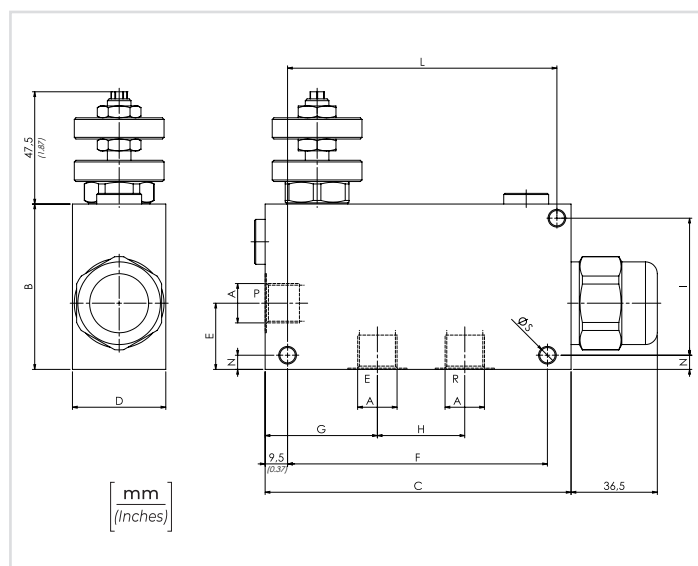


DATI TECNICI / TECHNICAL DATA

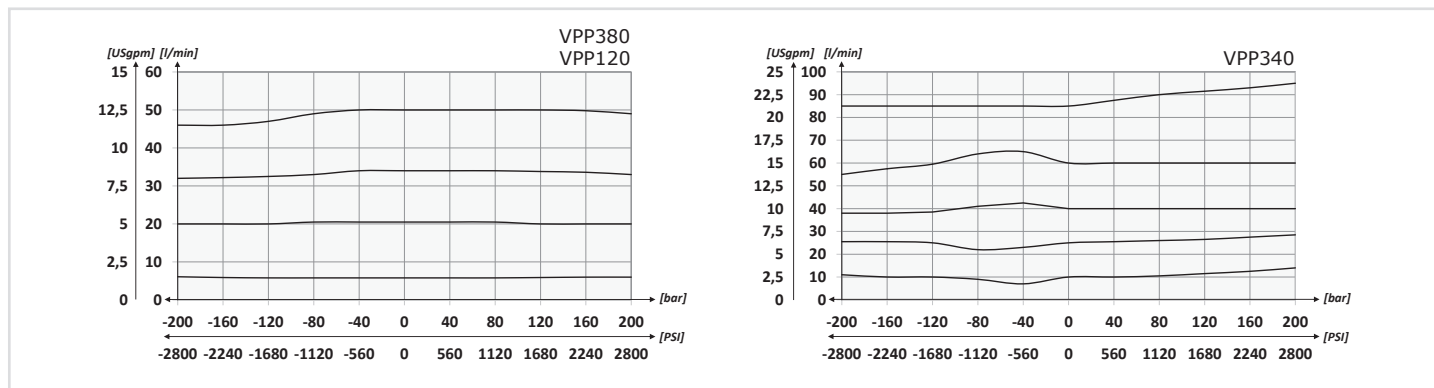
Olio idraulico - Mineral oil	ISO 6743/4 (DIN 51524)
Viscosità olio - Oil viscosity	15-250 mm ² /s (15 to 250 cSt)
Classe di contaminazione max con filtro Max contamination index with filter	ISO 4406:1999 Classe 19/17/14
Temperatura dell'olio - Oil temperature	-20°C +80°C -4°F +176°F
Temperatura ambiente - Environment 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

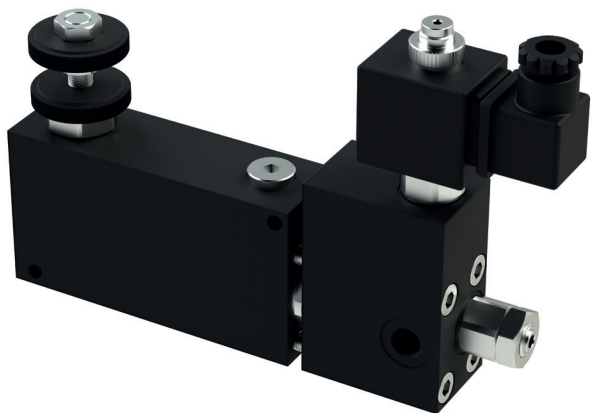


PERFORMANCES



CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

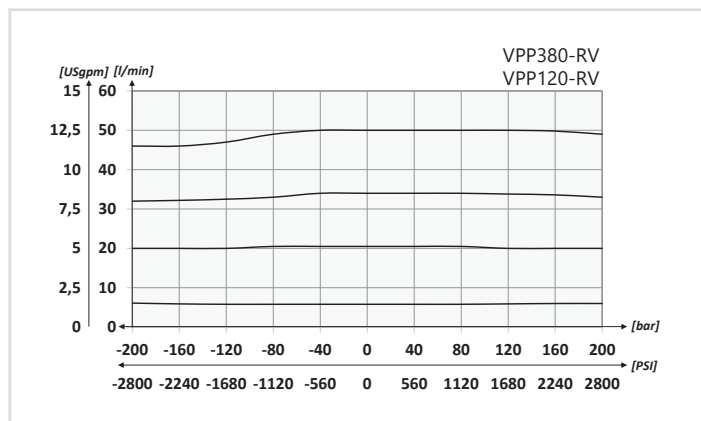
TIPO TYPE	A	PORTATA MAX MAX FLOW l/min-USgpm	PRESSIONE MAX MAX PRESSURE bar-PSI	B	C	D	E	F	G	H	I	L	N	S	PESO APPROX (kg) APPROX WEIGHT (lbt)
VPP380	BSPP 3/8	50 (13.2)	250 (3625)	70 (2.76)	129,5 (50.98)	39,5 (15.55)	28 (1.10)	110 (4.33)	47 (18.70)	37 (1.46)	58 (2.28)	114 (4.49)	6 (0.24)	6,5 (0.26)	1,54 (3.39)
VPP120	BSPP 1/2	90 (23.8)		90 (3.54)	155 (6.10)	50 (1.97)	35 (1.38)	/	57 (2.24)	44 (1.73)	74 (2.91)	135 (5.31)	8 (0.31)	8,5 (0.33)	1,52 (3.35)
VPP340	BSPP 3/4	150 (39.6)		90 (3.54)	155 (6.10)	50 (1.97)	35 (1.38)	/	57 (2.24)	44 (1.73)	74 (2.91)	135 (5.31)	8 (0.31)	8,5 (0.33)	2,48 (5.46)



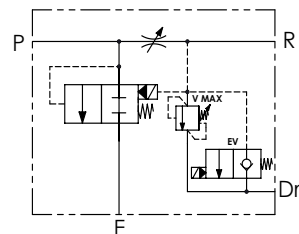
DATI TECNICI / TECHNICAL DATA

Oil 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 - Environment 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

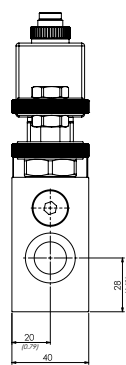
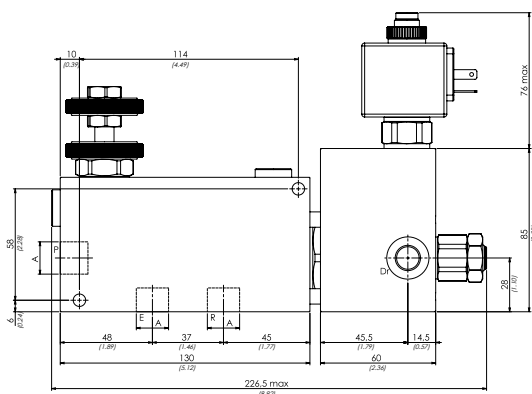


SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



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



mm
(inches)

CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	A	PORTATA MAX (l/min) MAX FLOW (USgpm)	PRESSIONE MAX (bar) MAX PRESSURE (PSI)	PESO APPROX SENZA VALVOLE (kg) APPROX WEIGHT WITHOUT VALVES (lb)
VPP380-RV	BSPP 3/8	50 (13.2)	250 (3625)	2,25 (4.97)
VPP120-RV	BSPP 1/2	90 (23.8)		

FCM VALVOLE DI FINE CORSA NORMALMENTE CHIUSE

NORMALLY CLOSED END - STROKE VALVES

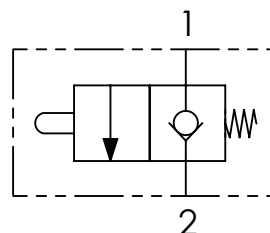


CODICE ORDINAZIONE ORDERING CODE

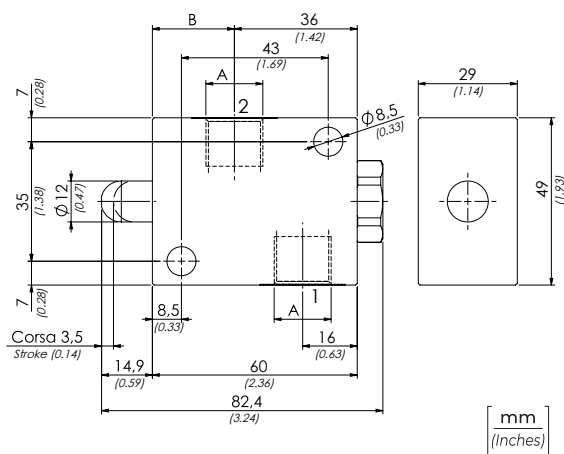
01	02
FCM	

01	VALVOLE DI FINE CORSA NORMALMENTE CHIUSE (NORMALLY CLOSED END - STROKE VALVES)	FCM
02	DIMENSIONE (SIZE)	BSPP 1/4 140N
		BSPP 3/8 380N
		BSPP 1/2 120N

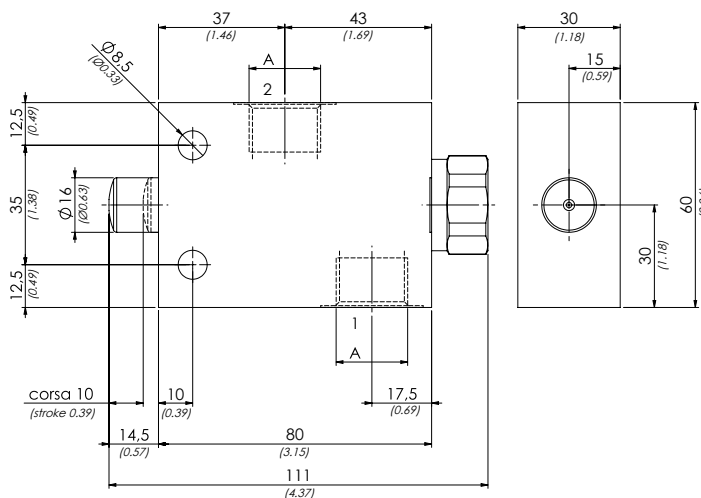
SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



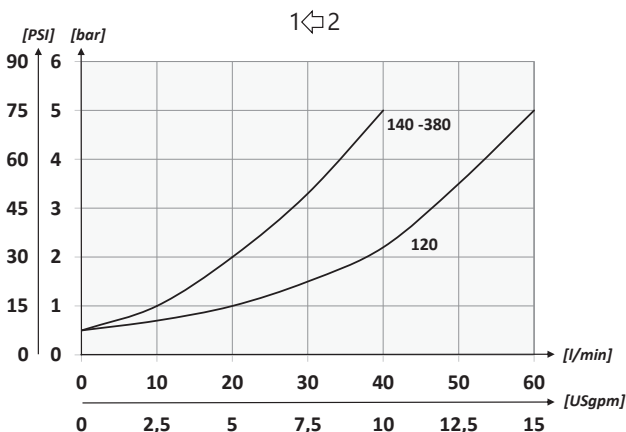
FCM140N - FCM380N



FCM120N



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 - Environment 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)	

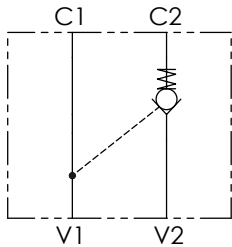
CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	A	B	PORTATA MAX MAX FLOW l/min-USgpm	PRESSIONE MAX MAX PRESSURE bar-PSI	PESO APPROX APPROX WEIGHT kg-lbt
FCM140N	BSPP 1/4	26,5 (1.04)	40 (10.6)	350 (5075)	0,53 (1.16)
FCM380N	BSPP 3/8	24 (0.94)			0,50 (1.10)
FCM120N	BSPP 1/2	/	60 (15.8)	300 (4350)	1,01 (2.22)

VALVOLE DI BLOCCO A SEMPLICE EFFETTO



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 - Environment 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		

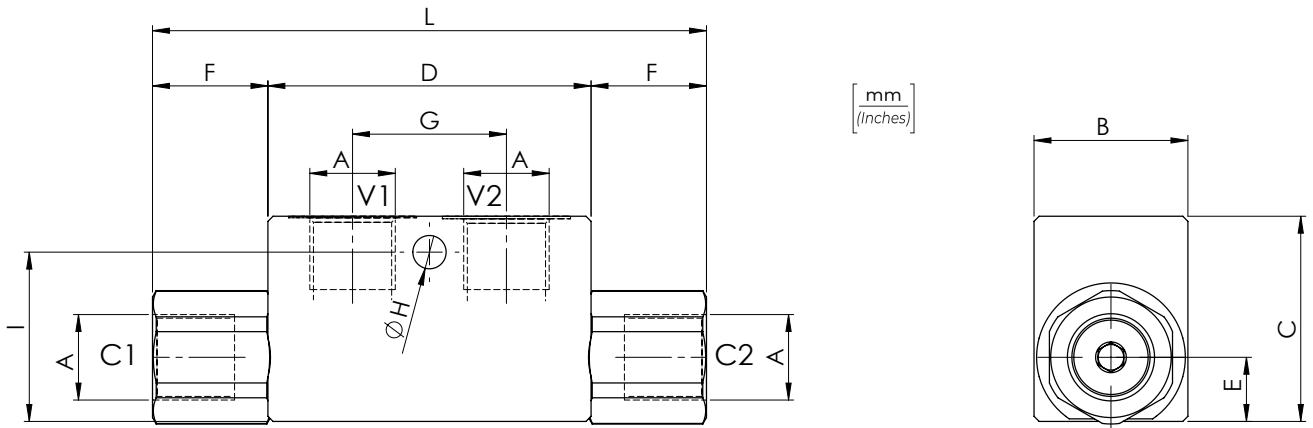
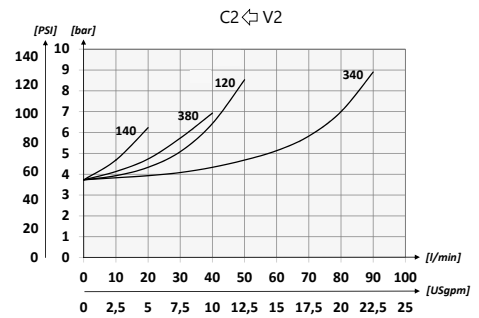
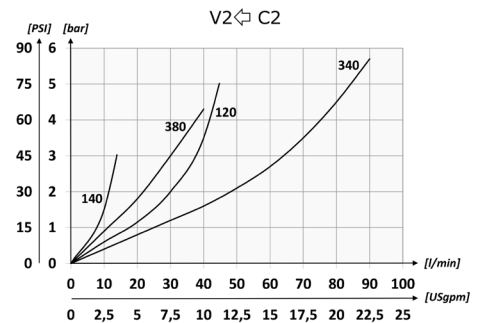
CODICE ORDINAZIONE
ORDERING CODE

01
VRSE

02

01	VALVOLE DI BLOCCO A SEMPLICE EFFETTO (SINGLE ACTING PILOT CHECK VALVES)		VRSE
02	DIMENSIONE (SIZE)	BSPP 1/4	140
		BSPP 3/8	380
		BSPP 1/2	120
		BSPP 3/4	340

PERFORMANCES



CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	A	PORTATA MAX MAX FLOW l/min-USgpm	PRESSIONE MAX MAX PRESSURE bar-PSI	B	C	D	E	F	G	H	I	L	PESO APPROX APPROX WEIGHT kg-lbt	RAPPORTO DI PILOTAGGIO PILOT RATIO
VRSE140	BSPP 1/4	15 (4)	350 (5075)	30 (1.18)	40 (1.57)	63 (2.48)	12,5 (0.49)	22,5 (0.89)	30 (1.18)	6,5 (0.26)	33 (1.30)	108 (4.25)	0,64 (1.41)	1:4
VRSE380	BSPP 3/8	35 (9.2)											0,59 (1.30)	
VRSE120	BSPP 1/2	45 (11.9)		35 (1.38)	50 (1.97)	82 (3.23)	16,5 (0.65)	31,5 (1.24)	36 (1.42)		35 (1.38)	145 (5.71)	1,08 (2.38)	
VRSE340	BSPP 3/4	70 (18.5)		40 (1.57)	60 (2.36)	100 (3.94)	22,5 (0.89)	46 (1.81)	50 (1.97)	8,5 (0.33)	50 (1.97)	192 (7.56)	2 (4.41)	1:2.9

VRDE VALVOLE DI BLOCCO A DOPPIO EFFETTO

DOUBLE ACTING PILOT CHECK VALVES



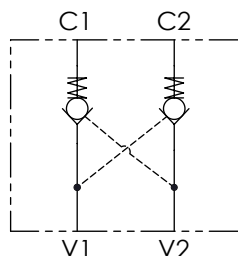
CODICE ORDINAZIONE

ORDERING CODE

01	02
VRDE	

01	VALVOLE DI BLOCCO A DOPPIO EFFETTO (DOUBLE ACTING PILOT CHECK VALVES)	VRDE
02	DIMENSIONE (SIZE)	BSPP 1/4
		BSPP 3/8
		BSPP 1/2
		BSPP 3/4

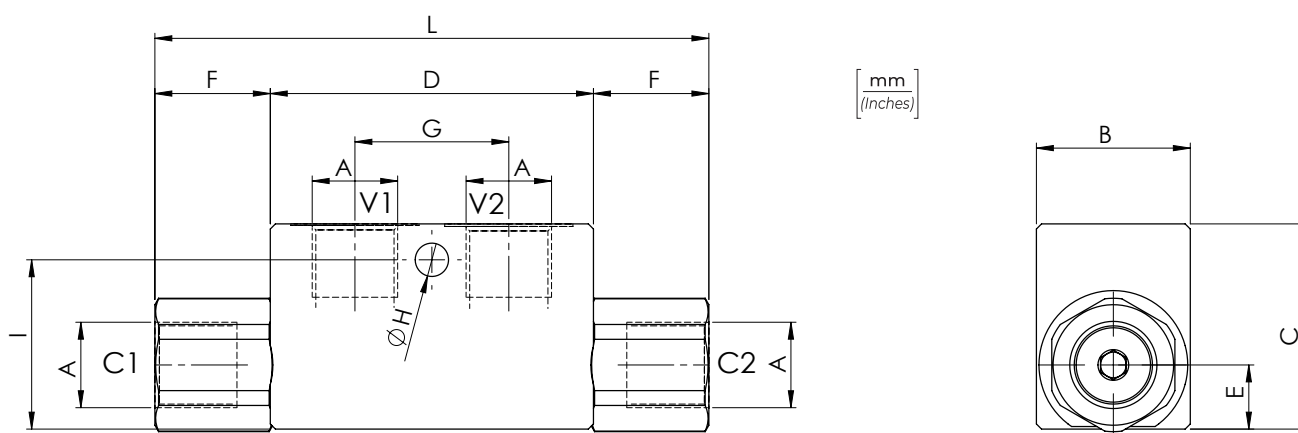
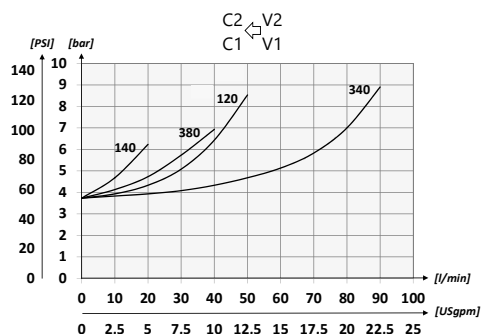
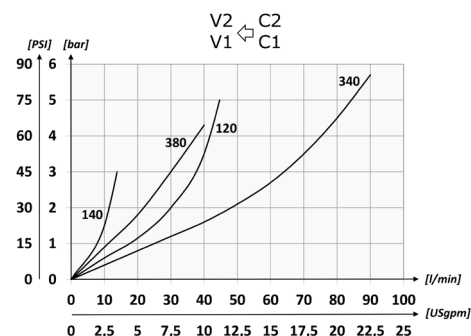
SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



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 - Environment 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

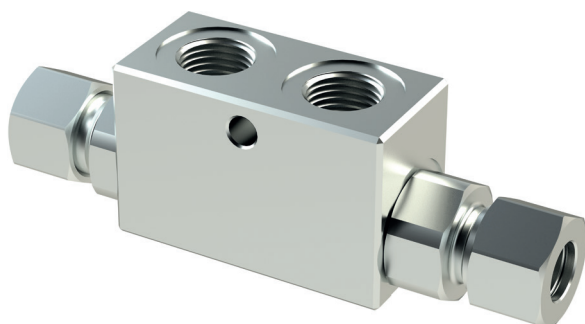


CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

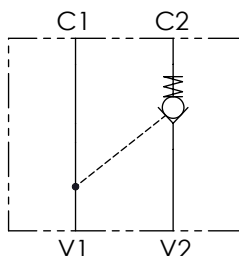
TIPO TYPE	A	PORTATA MAX MAX FLOW l/min-USgpm	PRESSIONE MAX MAX PRESSURE bar-PSI	B	C	D	E	F	G	H	I	L	PESO APPROX APPROX WEIGHT kg-lbt	RAPPORTO DI PILOTAGGIO PILOT RATIO
VRDE140	BSPP 1/4	15 (4)	350 (5075)	30 (1.18)	40 (1.57)	63 (2.48)	12,5 (0.49)	22,5 (0.89)	30 (1.18)	6,5 (0.26)	33 (1.30)	108 (4.25)	0,64 (1.41)	1:4
VRDE380	BSPP 3/8	35 (9.2)											0,60 (1.32)	
VRDE120	BSPP 1/2	45 (11.9)		35 (1.38)	50 (1.97)	82 (3.23)	16,5 (0.65)	31,5 (1.24)	36 (1.42)		35 (1.38)	145 (5.71)	1,10 (2.42)	
VRDE340	BSPP 3/4	70 (18.5)		40 (1.57)	60 (2.36)	100 (3.94)	22,5 (0.89)	46 (1.81)	50 (1.97)	8,5 (0.33)	50 (1.97)	192 (7.56)	2 (4.40)	1:2.9

VRSD VALVOLE DI BLOCCO A SEMPLICE EFFETTO DIN2353

DIN2353 SINGLE ACTING PILOT CHECK VALVES



SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



DATI TECNICI / TECHNICAL DATA

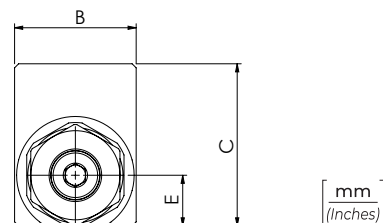
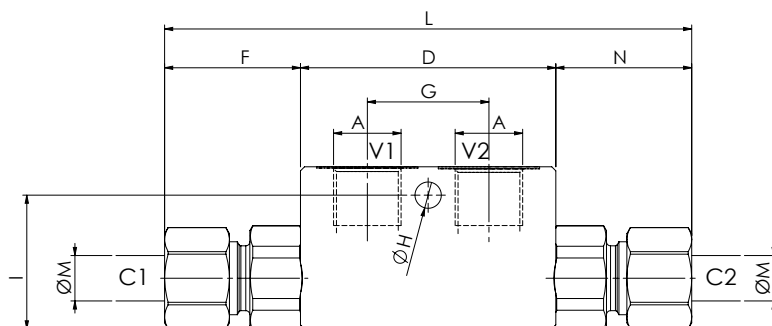
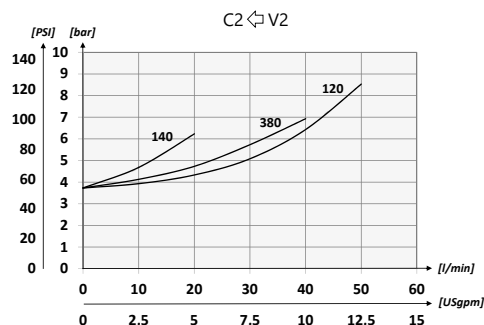
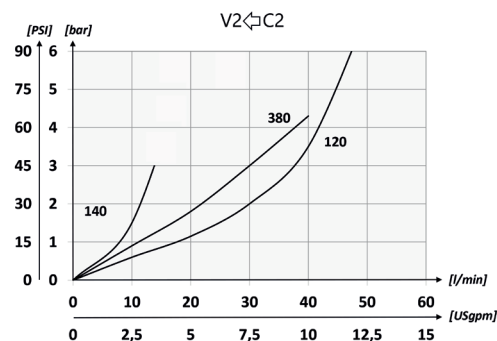
Olio idraulico - Mineral oil	ISO 6743/4 (DIN 51524)
Viscosità olio - Oil viscosity	15-250 mm ² /s (15 to 250 cSt)
Classe di contaminazione max con filtro Max contamination index with filter	ISO 4406:1999 Classe 19/17/14
Temperatura dell'olio - Oil temperature	-20°C +80°C -4°F +176°F
Temperatura ambiente - Environment 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

CODICE ORDINAZIONE ORDERING CODE

01	02	03
VRSD		

01	VALVOLE DI BLOCCO A SEMPLICE EFFETTO DIN2353 (DIN2353 SINGLE ACTING PILOT CHECK VALVES)		VRSD
02	DIMENSIONE (SIZE)	BSPP 1/4	140
		BSPP 3/8	380
		BSPP 1/2	120
03	DIMENSIONE TUBO (SIZE PIPE)	Per tubo Ø 8 - For Ø 8 pipe only for BSPP 1/4	T8
		Per tubo Ø 12 - For Ø 12 pipe standard only for BSPP 1/4 and 3/8	
		Per tubo Ø 15 - For Ø 15 pipe standard only for BSPP 1/2	

PERFORMANCES

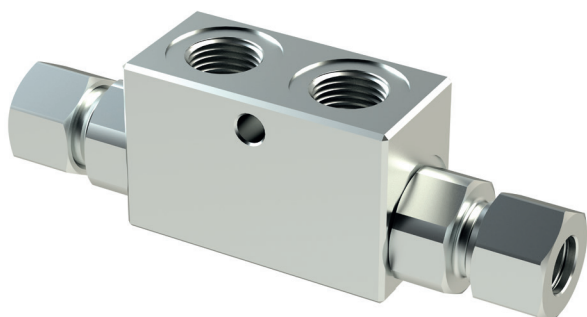


CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

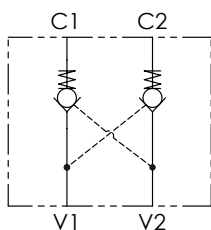
TIPO TYPE	A	PORTATA MAX MAX FLOW l/min-USgpm	PRESSIONE MAX MAX PRESSURE bar-PSI	B	C	D	E	F	G	H	I	L	M	PESO APPROX APPROX WEIGHT kg-lbt	RAPPORTO DI PILOTAGGIO PILOT RATIO
VRSD140T8	BSPP 1/4	10 (2.6)	350 (5075)	30 (1.18)	40 (1.57)	63 (2.48)	12,5 (0.49)	28 (1.10)	30 (1.18)	6,5 (0.26)	33 (1.30)	119 (4.69)	8 (0.31)	0,62 (1.36)	1:9
VRSD140		15 (4)						32 (1.26)				127 (5)	12 (0.47)	0,63 (1.37)	
VRSD380	BSPP 3/8	35 (9.2)		35 (1.38)	50 (1.97)	82 (3.23)	16,5 (0.65)	33,5 (1.32)	36 (1.42)		35 (1.38)	149 (5.87)	15 (0.59)	0,60 (1.32)	1:4
VRSD120	BSPP 1/2	45 (11.9)												1,10 (2.42)	

VRDD VALVOLE DI BLOCCO A DOPPIO EFFETTO DIN2353

DIN2353 DOUBLE ACTING PILOT CHECK VALVES



SCHEMA IDRAULICO / HYDRAULIC CIRCUIT

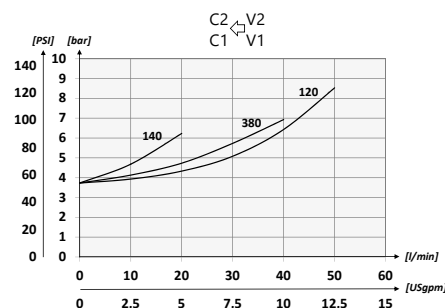
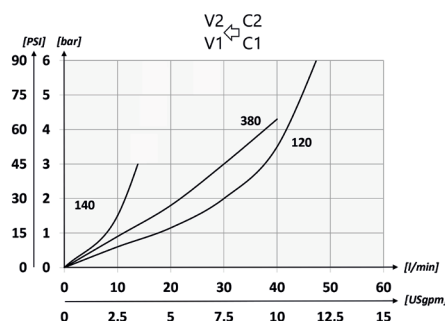


CODICE ORDINAZIONE ORDERING CODE

01	02	03
VRDD		

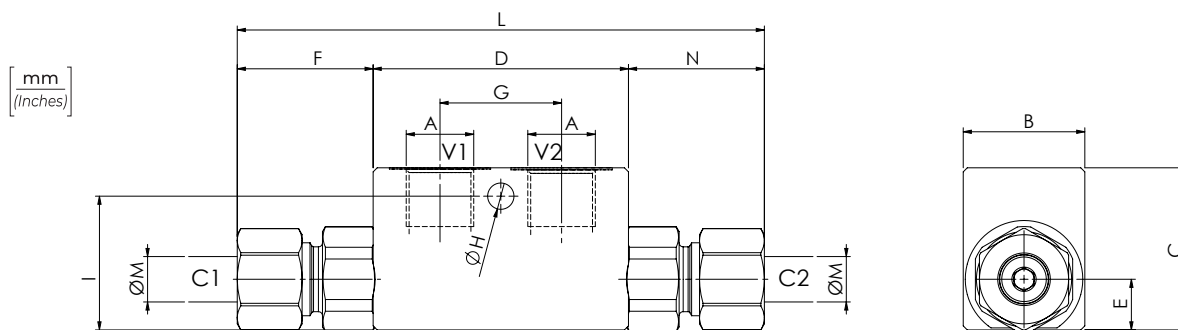
01	VALVOLE DI BLOCCO A DOPPIO EFFETTO DIN2353 (DIN2353 DOUBLE ACTING PILOT CHECK VALVES)		VRDD
02	DIMENSIONE (SIZE)	BSPP 1/4	140
		BSPP 3/8	380
		BSPP 1/2	120
03	DIMENSIONE TUBO (SIZE PIPE)	Per tubo Ø 8 - For Ø 8 pipe only for BSPP 1/4	T8
		Per tubo Ø 12 - For Ø 12 pipe standard only for BSPP 1/4 and 3/8	
		Per tubo Ø 15 - For Ø 15 pipe standard only for BSPP 1/2	

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 - Environment 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

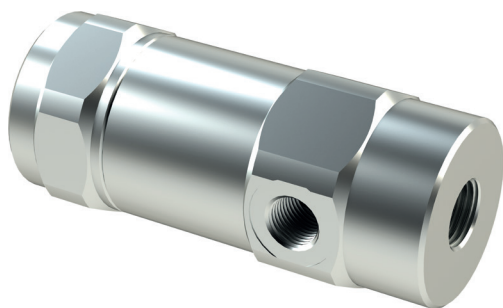


CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

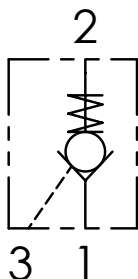
TIPO TYPE	A	PORTATA MAX MAX FLOW l/min-USgpm	PRESSIONE MAX MAX PRESSURE bar-PSI	B	C	D	E	F	G	H	I	L	M	PESO APPROX APPROX WEIGHT kg-lbt	RAPPORTO DI PILOTAGGIO PILOT RATIO			
VRDD140T8	BSPP 1/4	10 (2.6)	350 (5075)	30 (1.18)	40 (1.57)	63 (2.48)	12,5 (0.49)	28 (1.10)	30 (1.18)	6,5 (0.26)	35 (1.38)	113 (4.45)	8 (0.31)	0,60 (1.32)	1:9			
VRDD140		15 (4)						32 (1.26)				127 (5)	12 (0.47)	0,64 (1.40)	1:4			
VRDD380	BSPP 3/8	35 (9.2)						33,5 (1.32)				149 (5.87)	15 (0.59)	0,63 (1.38)				
VRDD120	BSPP 1/2	45 (11.9)						36 (1.42)						1,17 (2.57)				

VRPE VALVOLE DI BLOCCO PILOTATE A SEMPLICE EFFETTO

SINGLE ACTING PILOT CHECK VALVES



SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



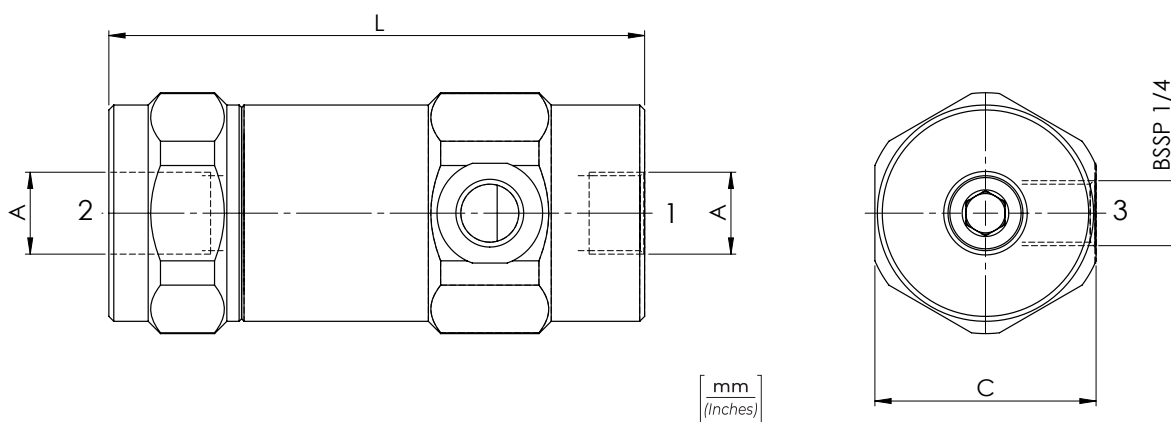
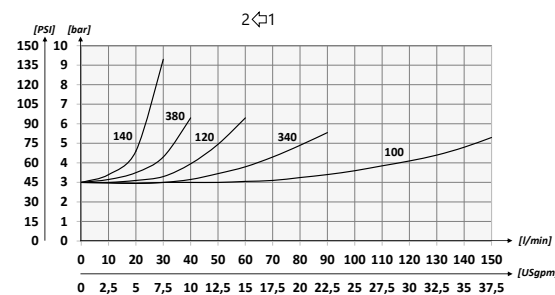
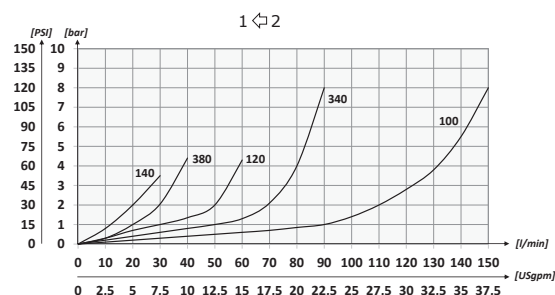
DATI TECNICI / TECHNICAL DATA

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 - Environment 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
CODICE ORDINAZIONE ORDERING CODE	VRPE

01	VALVOLE DI BLOCCO PILOTATE A SEMPLICE EFFETTO (SINGLE ACTING PILOT CHECK VALVES)	VRPE
02	DIMENSIONE (SIZE)	BSPP 1/4
		140
		BSPP 3/8
		380
		BSPP 1/2
		120
		BSPP 3/4
		340
		BSPP 1
		100

PERFORMANCES

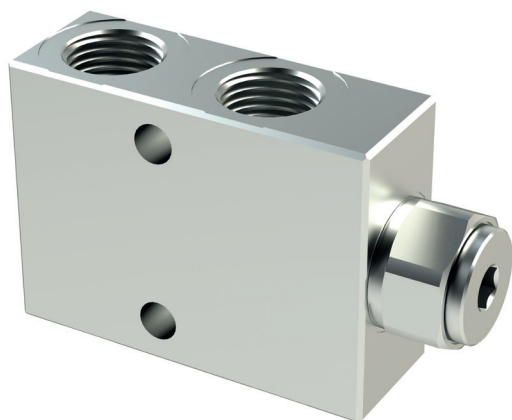


CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	A	PORTATA MAX (l/min) MAX FLOW (USgpm)	PRESSIONE MAX (bar) MAX PRESSURE (PSI)	L	C	PESO APPROX (kg) APPROX WEIGHT (lbt)	RAPPORTO DI PILOTAGGIO PILOT RATIO
VRPE140	BSPP 1/4	25 (6.6)	350 (5075)	96 (3.78)	40 (1.57)	0,84 (1.85)	1:5.3
VRPE380	BSPP 3/8	40 (10.6)		109 (4.29)	45 (1.77)	1,14 (2.51)	1:4.4
VRPE120	BSPP 1/2	60 (15.9)		122 (4.80)		1,24 (2.73)	1:4.2
VRPE340	BSPP 3/4	100 (26.4)	300 (4350)	132 (5.20)	55 (2.17)	1,87 (4.12)	1:4
VRPE100	BSPP 1	150 (39.6)		166 (6.54)	65 (2.56)	3,22 (7.10)	1:4.1

VRP VALVOLE DI BLOCCO PILOTATE A SEMPLICE EFFETTO

SINGLE ACTING PILOT CHECK VALVES

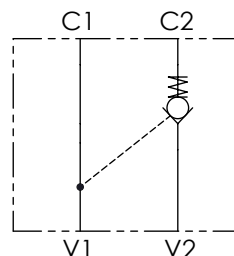


CODICE ORDINAZIONE ORDERING CODE

01	02
VRP	

01	VALVOLE DI BLOCCO PILOTATE A SEMPLICE EFFETTO (SINGLE ACTING PILOT CHECK VALVES)		VRP
02	DIMENSIONE (SIZE)	BSPP 3/8	380
		BSPP 1/2	120

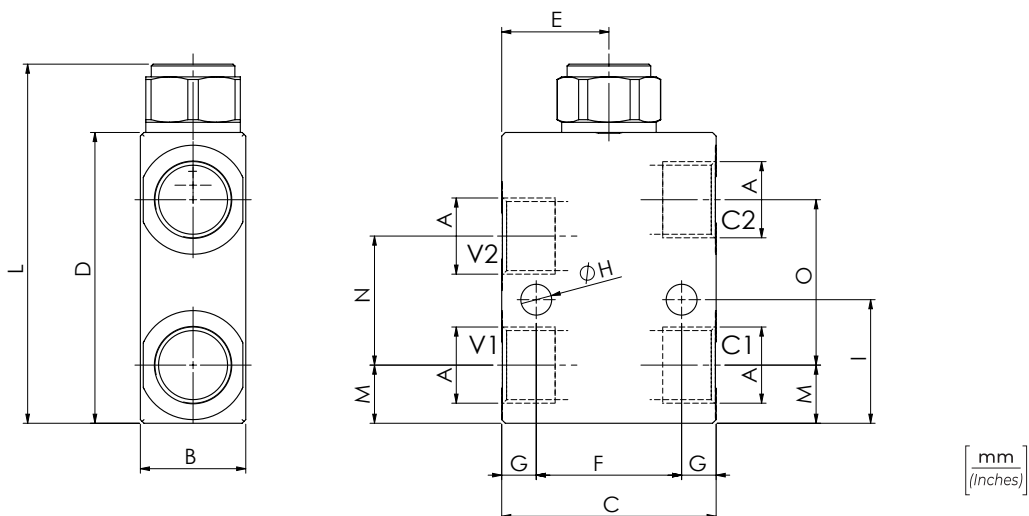
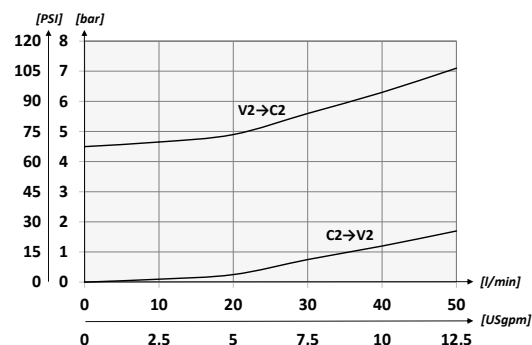
SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



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 - Environment 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

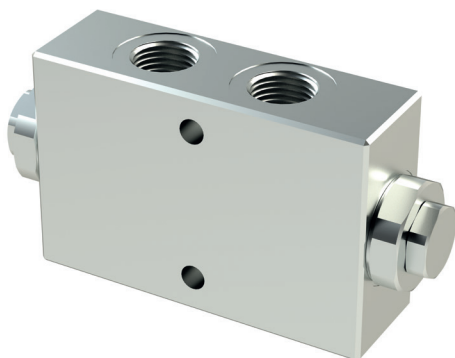


CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	A	PORTATA MAX MAX FLOW l/min-USgpm	PRESSIONE MAX MAX PRESSURE bar-PSI	B	C	D	E	F	G	H	I	L	M	N	O	PESO APPROX APPROX WEIGHT kg-lbt	RAPPORTO DI PILOTAGGIO PILOT RATIO
VRP380	BSPP 3/8	35 (9.2)	350 (5075)	29 (1.14)	59 (2.32)	80 (3.5)	29,5 (1.16)	40 (1.57)	9,5 (0.37)	8,5 (0.33)	31,75 (1.25)	99 (3.70)	15 (0.59)	33,50 (1.32)	50 (1.97)	0,9 (2)	1:4
VRP120	BSPP 1/2	50 (13.2)									34 (1.34)		16 (0.63)	35,50 (1.40)	45,5 (1.79)		

VRDL VALVOLE DI BLOCCO PILOTATE A DOPPIO EFFETTO

DOUBLE ACTING PILOT CHECK VALVES



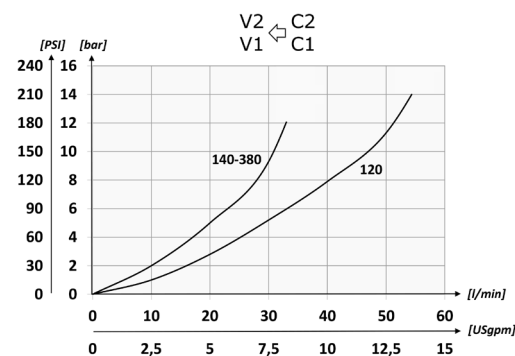
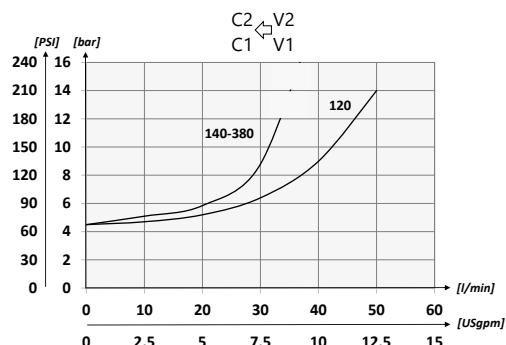
CODICE ORDINAZIONE
ORDERING CODE

01
VRDL

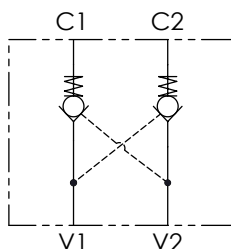
02

01	VALVOLE DI BLOCCO PILOTATE A DOPPIO EFFETTO (DOUBLE ACTING PILOT CHECK VALVES)		VRDL
02	DIMENSIONE (SIZE)	BSPP 1/4	140N
		BSPP 3/8	380N
		BSPP 1/2	120N

PERFORMANCES

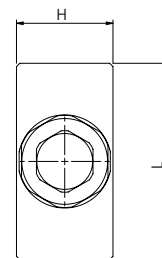
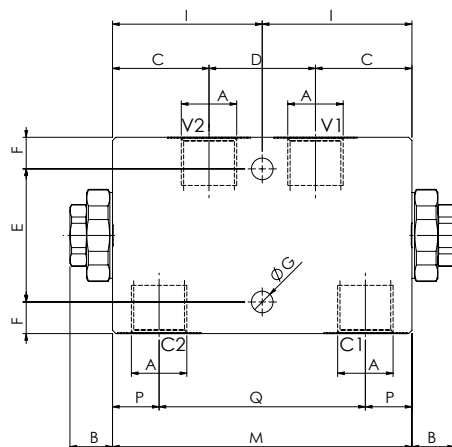


SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



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 - Environment 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		



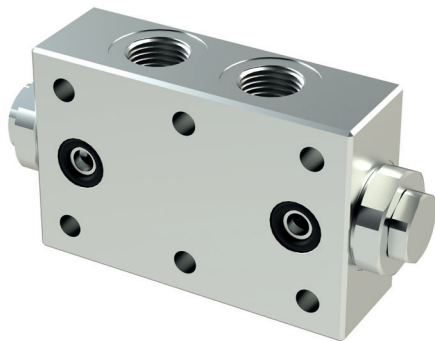
[mm]
[Inches]

CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

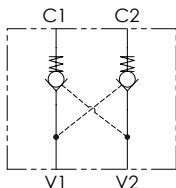
TIPO TYPE	A	PORTATA MAX MAX FLOW l/min-USgpm	PRESSIONE MAX MAX PRESSURE bar-PSI	B	C	D	E	F	G	H	I	L	M	P	Q	PESO APPROX APPROX WEIGHT kg-lbt	RAPPORTO DI PILOTAGGIO PILOT RATIO
VRDL140N	BSPP 1/4	35 (9.2)	350 (5075)	13 (0.51)	29 (1.14)	32 (1.26)	40 (1.57)	9,5 (0.37)	6,5 (0.26)	29 (1.14)	45 (1.77)	59 (2.32)	90 (3.54)	14 (0.55)	62 (2.44)	1,18 (2.60)	1:7
VRDL380N	BSPP 3/8			14,8 (0.58)	38 (1.50)	34 (1.34)		14,5 (0.57)	8,5 (0.33)	34 (1.34)	55 (2.17)	69 (2.72)	110 (4.33)	20,5 (0.81)	69 (2.72)	1,10 (2.42)	
VRDL120N	BSPP 1/2	50 (13.2)														1,77 (3.90)	

VRDF VALVOLE DI BLOCCO FLANGIATE A DOPPIO EFFETTO

DOUBLE ACTING PILOT CHECK VALVES - FLANGED VERSION



SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



DATI TECNICI / TECHNICAL DATA

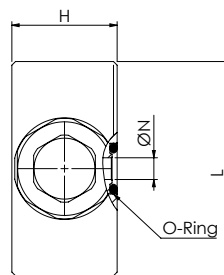
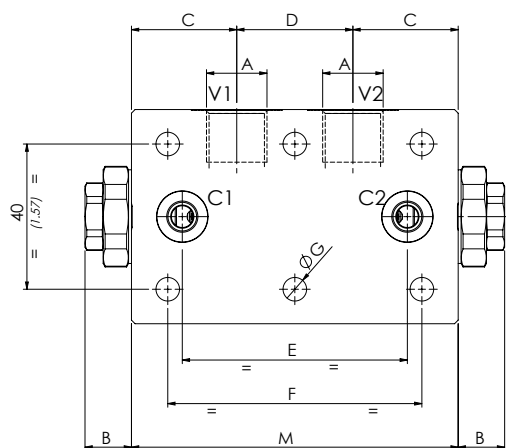
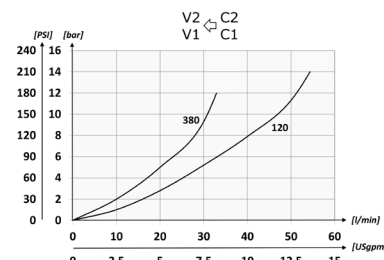
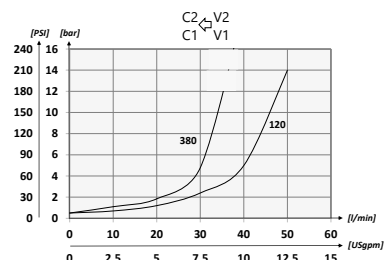
Olivo idraulico - Mineral oil	ISO 6743/4 (DIN 51524)
Viscosità olio - Oil viscosity	15-250 mm ² /s (15 to 250 cSt)
Classe di contaminazione max con filtro Max contamination index with filter	ISO 4406:1999 Classe 19/17/14
Temperatura dell'olio - Oil temperature	-20°C +80°C -4°F +176°F
Temperatura ambiente - Environment 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

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)	BSPP 3/8		380
		BSPP 1/2		120
03	MOLLA (SPRING)	1 bar (14.5 PSI)		1
		6 bar (87 PSI) Standard		6
04	O-RING SUL PISTONE DI PILOTAGGIO (O-RING ON PILOT PISTON)	Senza o-ring (without o-ring)		0
		con o-ring (with o-ring)		1
05	RAPPORTO DI PILOTAGGIO (PILOT RATIO)	1:3,2 solo per dimensione 120 (only for size 120)		32
		1:7		70

PERFORMANCES



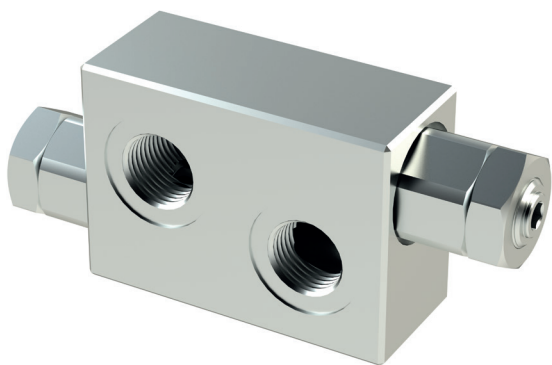
[mm
(Inches)]

CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

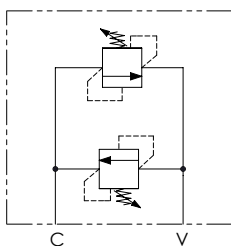
TIPO TYPE	A	PORTATA MAX MAX FLOW l/min-USgpm	PRESSIONE MAX MAX PRESSURE bar-PSI	B	C	D	E	F	G	H	L	M	N	O-RING	PESO APPROX APPROX WEIGHT kg-lbt	RAPPORTO DI PILOTAGGIO PILOT RATIO
VRDF380	BSPP 3/8	35 (9.2)	350 (5075)	12,8 (0.50)	29 (1.94)	32 (1.26)	62 (2.44)	70 (2.76)	6.5 (0.26)	34 (1.34)	59 (2.32)	90 (3.54)	Ø 6 (0.24)	9,19x2,62	1,11 (2.44)	1:7
VRDF120	BSPP 1/2	50 (13.2)		14.8 (0.58)	38 (1.50)	34 (1.34)	65 (2.56)	80 (3.15)	8.5 (0.33)		69 (2.72)	110 (4.33)	Ø 7 (0.28)	15,08x2,62	1,85 (4)	1:3,2 1:7

DCA VALVOLE ANTIURTO DOPPIE INCROCIATE

DOUBLE CROSS LINE DIRECT ACTING RELIEF VALVES



SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	A	PORTATA MAX FLOW l/min-USgpm	PRESSIONE MAX PRESSURE bar-PSI	B	C	PESO APPROX APPROX WEIGHT kg-lbt	VALVOLA TIPO TYPE OF VALVE
DCA140	BSPP 1/4	20 (5.3)	350 (5075)	22 (0.87)	6 (0.24)	0.8 (1.8)	VMD1N
DCA380	BSPP 3/8			20 (0.79)	10 (0.39)		

CODICE ORDINAZIONE ORDERING CODE

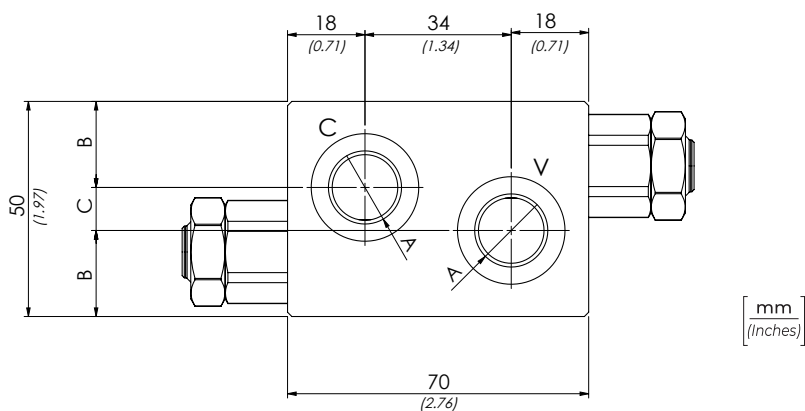
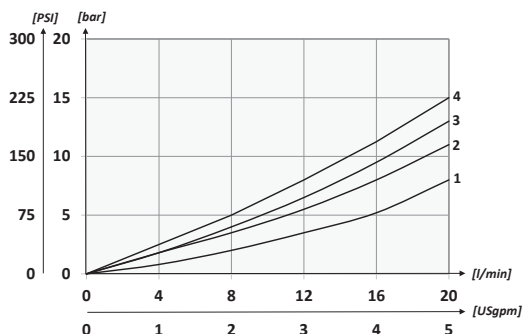
01	02	03
DCA		

01	VALVOLE ANTIURTO DOPPIE INCROCIATE (DOUBLE CROSS LINE DIRECT ACTING RELIEF VALVES)		DCA
02	DIMENSIONE (SIZE)	BSPP 1/4	140
		BSPP 3/8	380
03	MOLLA (SPRING) 10/40 bar (145/580PSI) max	20 bar/al giro (290 PSI/turn)	1
	Molla (SPRING) 20/110 bar (290/1595 PSI) max	40 bar/al giro (580 PSI/turn)	2
	MOLLA (SPRING) 30/210 bar (435/3045 PSI) max	70 bar/al giro (1015 PSI/turn)	3
	Molla (SPRING) 40/350 bar (580/5075 PSI) max	130 bar/al giro (1885 PSI/turn)	4

DATI TECNICI / TECHNICAL DATA

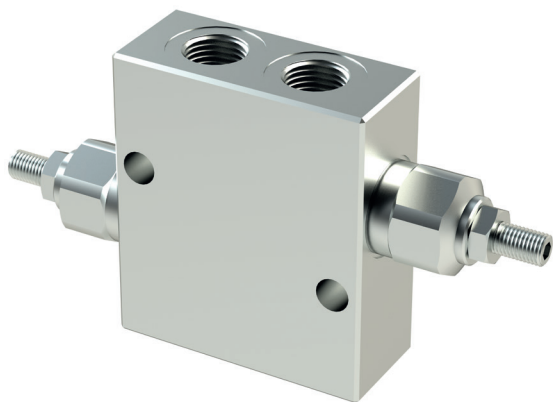
Olio idraulico - Mineral oil	ISO 6743/4 (DIN 51524)
Viscosità olio - Oil viscosity	15-250 mm ² /s (15 to 250 cSt)
Classe di contaminazione max con filtro Max contamination index with filter	ISO 4406:1999 Classe 19/17/14
Temperatura dell'olio - Oil temperature	-20°C +80°C -4°F +176°F
Temperatura ambiente - Environment 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

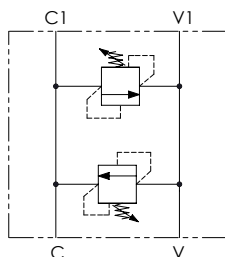


VBDC VALVOLE ANTIURTO DOPPIE INCROCIATE

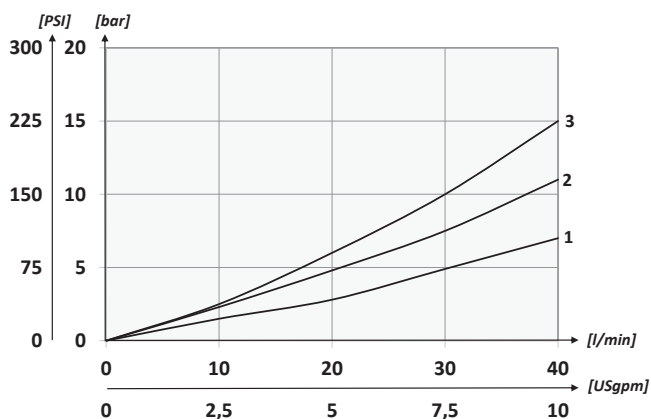
DOUBLE CROSS LINE DIRECT ACTING RELIEF VALVES



SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



PERFORMANCES



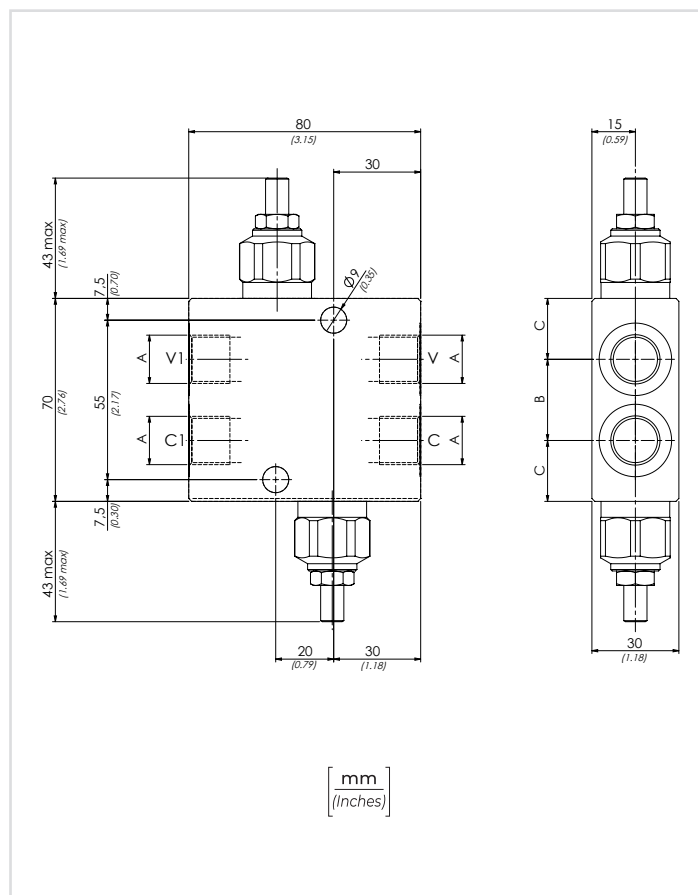
DATI TECNICI / TECHNICAL DATA

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 - Environment 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

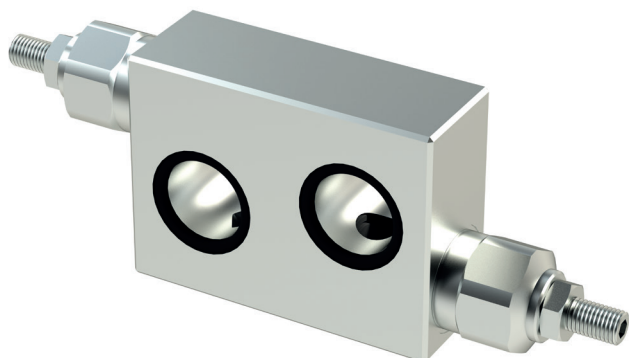
TIPO TYPE	A	PORTATA MAX MAX FLOW l/min-USgpm	PRESSIONE MAX MAX PRESSURE bar-PSI	B	C	PESO APPROX APPROX WEIGHT kg-lbt	VALVOLA TIPO TYPE OF VALVE
VBDC380	BSPP 3/8	40 (10.6)	350 (5075)	28 (1.10)	21 (0.83)	1,18 (2.60)	VMD40S
VBDC120	BSPP 1/2			33 (1.30)	18,5 (0.73)	1,12 (2.47)	

	01	02	03
CODICE ORDINAZIONE ORDERING CODE	VBDC		
01	VALVOLE ANTIURTO DOPPIE INCROCIATE (DOUBLE CROSS LINE DIRECT ACTING RELIEF VALVES)		VBDC
02	DIMENSIONE (SIZE)	BSPP 3/8	380
		BSPP 1/2	120
03	MOLLA (SPRING) 10/90 bar (145/1305 PSI) max	12 bar/al giro (174 PSI/turn)	1
	MOLLA (SPRING) 20/210 bar (290/3045 PSI) max	33 bar/al giro (479 PSI/turn)	2
	MOLLA (SPRING) 70/350 bar (1015/5075 PSI) max	70 bar/al giro (1015 PSI/turn)	3

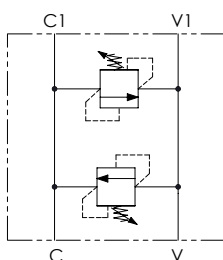


DCL VALVOLE ANTIURTO DOPPIE INCROCIATE

DOUBLE CROSS LINE DIRECT ACTING RELIEF VALVES



SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



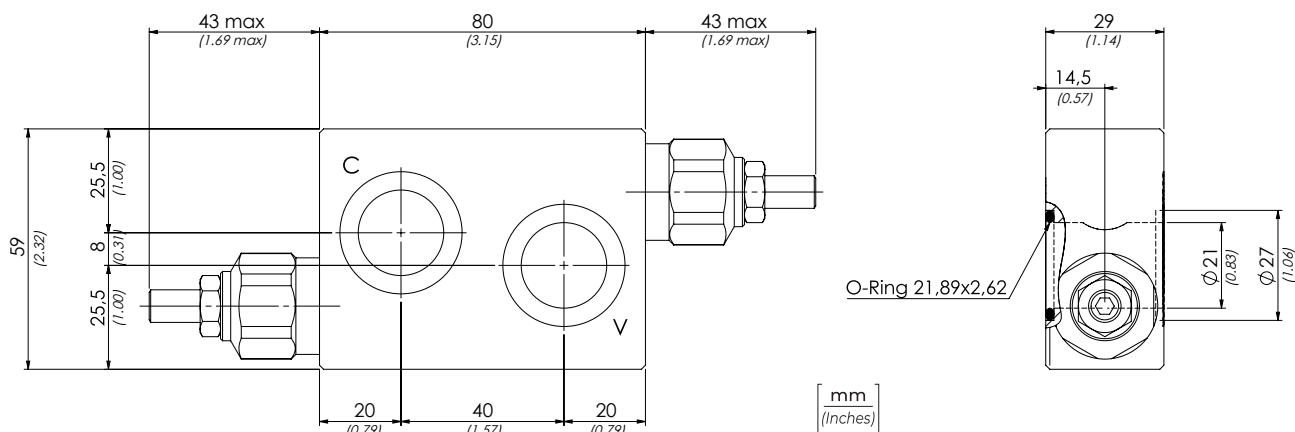
CODICE ORDINAZIONE ORDERING CODE

01	02	03
DCL	120	

01	VALVOLE ANTIURTO DOPPIE INCROCIATE (DOUBLE CROSS LINE DIRECT ACTING RELIEF VALVES)	DCL
02	DIMENSIONE (SIZE)	120
	MOLLA (SPRING) 10/90 bar (145/1305 PSI) max	1
	MOLLA (SPRING) 20/210 bar (290/3045 PSI) max	2
	MOLLA (SPRING) 70/350 bar (1015/5075 PSI) max	3

DATI TECNICI / TECHNICAL DATA

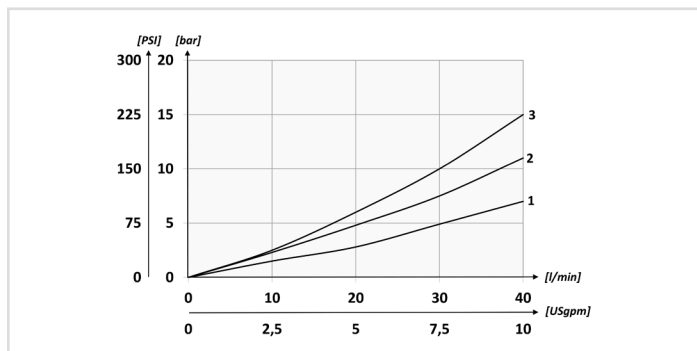
Olio idraulico - Mineral oil	ISO 6743/4 (DIN 51524)
Viscosità olio - Oil viscosity	15-250 mm ² /s (15 to 250 cSt)
Classe di contaminazione max con filtro Max contamination index with filter	ISO 4406:1999 Classe 19/17/14
Temperatura dell'olio - Oil temperature	-20°C +80°C -4°F +176°F
Temperatura ambiente - Environment 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

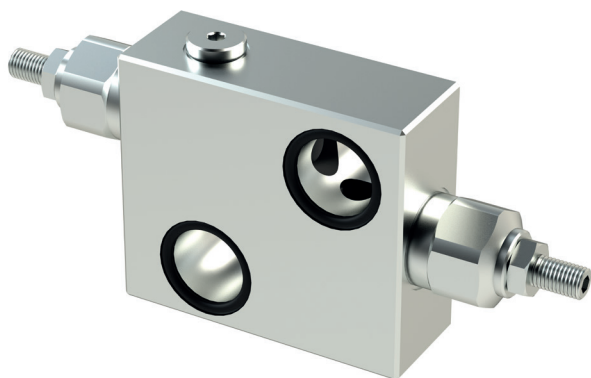
TIPO TYPE	A	PORTATA MAX MAX FLOW l/min-USgpm	PRESSIONE MAX MAX PRESSURE bar-PSI	PESO APPROX APPROX WEIGHT kg-lbt	VALVOLA TIPO TYPE OF VALVE
DCL120	Ø 21 (BSPP 1/2)	40 (10.6)	350 (5075)	0,96 (2.11)	VMD40S

PERFORMANCES

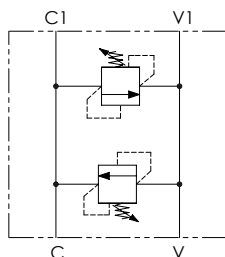


DCV VALVOLE ANTIURTO DOPPIE INCROCIATE

DOUBLE CROSS LINE DIRECT ACTING RELIEF VALVES



SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



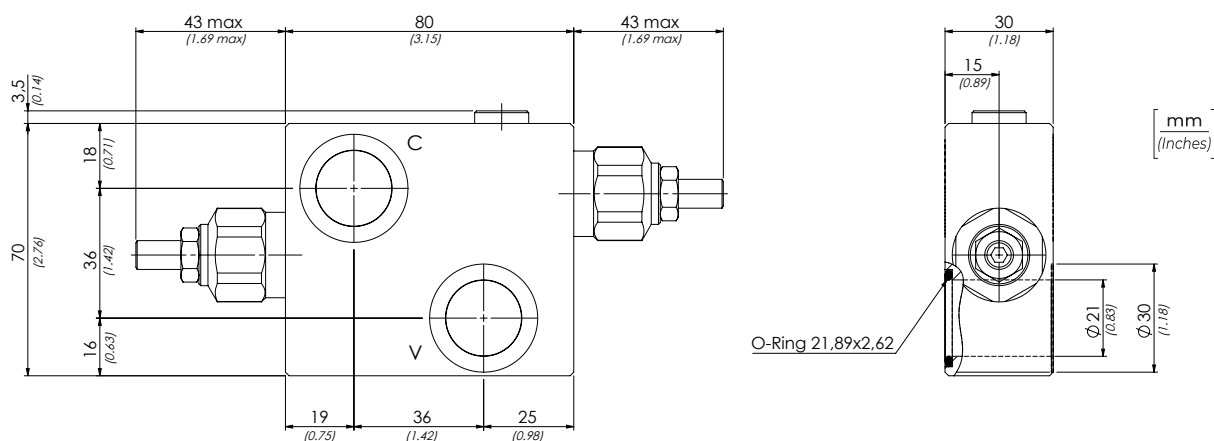
CODICE ORDINAZIONE ORDERING CODE

01	02	03
DCV	120	

01	VALVOLE ANTIURTO DOPPIE INCROCIATE (DOUBLE CROSS LINE DIRECT ACTING RELIEF VALVES)		DCV
02	DIMENSIONE (SIZE)	Ø 21 (BSPP 1/2)	120
03	MOLLA (SPRING) 10/90 bar (145/1305 PSI) max	12 bar/al giro (174 PSI/turn)	1
	MOLLA (SPRING) 20/210 bar (290/3045 PSI) max	33 bar/al giro (479 PSI/turn)	2
	MOLLA (SPRING) 70/350 bar (1015/5075 PSI) max	70 bar/al giro (1015 PSI/turn)	3

DATI TECNICI / TECHNICAL DATA

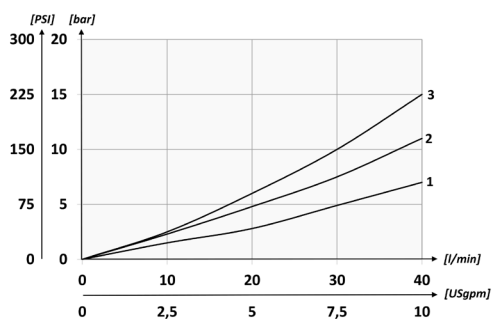
Olio idraulico - Mineral oil	ISO 6743/4 (DIN 51524)
Viscosità olio - Oil viscosity	15-250 mm ² /s (15 to 250 cSt)
Classe di contaminazione max con filtro Max contamination index with filter	ISO 4406:1999 Classe 19/17/14
Temperatura dell'olio - Oil temperature	-20°C +80°C -4°F +176°F
Temperatura ambiente - Environment 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

TIPO TYPE	A	PORTATA MAX MAX FLOW l/min-USgpm	PORTATA MAX MAX FLOW l/min-USgpm	PESO APPROX APPROX WEIGHT kg-lbt	VALVOLA TIPO TYPE OF VALVE
DCV120	Ø 21 (BSPP 1/2)	40 (10.6)	350 (5075)	1,2 (2.7)	VMD40S

PERFORMANCES



SCF VALVOLE ANTIURTO SINGOLE

SINGLE LINE DIRECT ACTING RELIEF VALVES

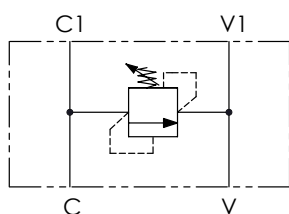


CODICE ORDINAZIONE ORDERING CODE

01	02	03
SCF	120	

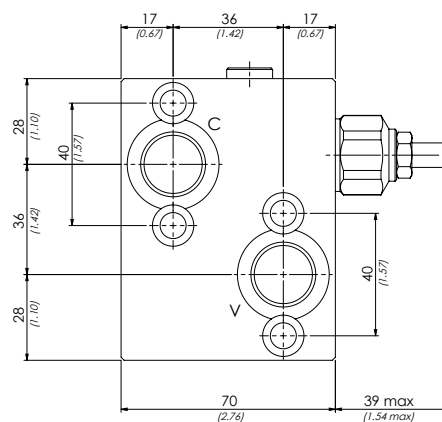
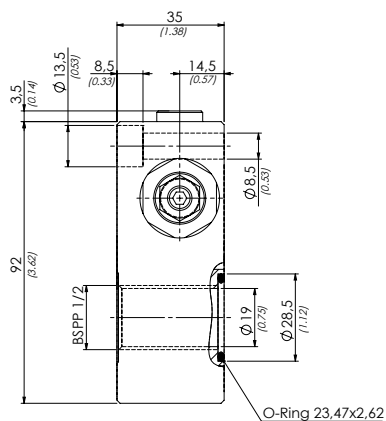
01	VALVOLE ANTIURTO SINGOLA (SINGLE LINE DIRECT ACTING RELIEF VALVES)		SCF
02	DIMENSIONE (SIZE)	BSPP 1/2	120
03	MOLLA (SPRING) 10/90 bar (145/1305 PSI) max	12 bar/al giro (174 PSI/turn)	1
	MOLLA (SPRING) 20/210 bar (290/3045 PSI) max	33 bar/al giro (479 PSI/turn)	2
	MOLLA (SPRING) 70/350 bar (1015/5075 PSI) max	70 bar/al giro (1015 PSI/turn)	3

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 - Environment 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)	

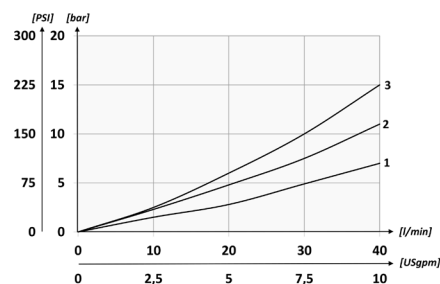


[mm
(Inches)]

CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	A	PORTATA MAX MAX FLOW l/min-USgpm	PRESSIONE MAX MAX PRESSURE bar-PSI	PESO APPROX APPROX WEIGHT kg-lbt	VALVOLA TIPO TYPE OF VALVE
SCF120	BSPP 1/2	40 (10.6)	350 (5075)	1,65 (3.63)	VMD40S

PERFORMANCES

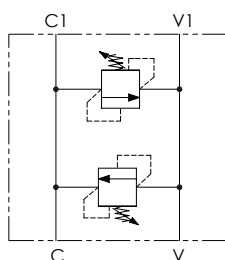


DCF VALVOLE ANTIURTO DOPPIE INCROCIATE

DOUBLE CROSS LINE DIRECT ACTING RELIEF VALVES



SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



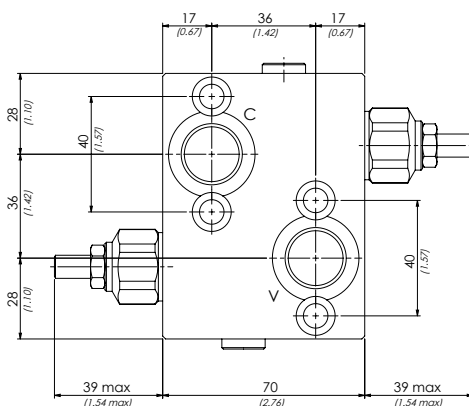
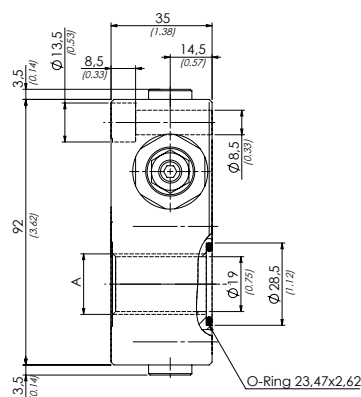
CODICE ORDINAZIONE ORDERING CODE

01	02	03
DCF		

01	VALVOLE ANTIURTO DOPPIE INCROCIATE (DOUBLE CROSS LINE DIRECT ACTING RELIEF VALVES)		DCF
02	DIMENSIONE (SIZE)	BSPP 1/2	120
03	MOLLA (SPRING) 10/40 bar (145/580 PSI) max	12 bar/al giro (174 PSI/turn)	1
	MOLLA (SPRING) 20/210 bar (290/3045 PSI) max	33 bar/al giro (479 PSI/turn)	2
	MOLLA (SPRING) 70/350 bar (1015/5075 PSI) max	70 bar/al giro (1015 PSI/turn)	3

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 - Environment 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)	

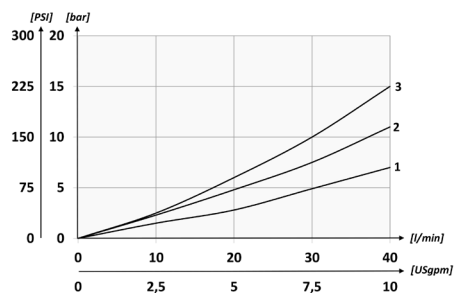


mm
(Inches)

CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	A	PORTATA MAX MAX FLOW l/min-USgpm	PRESSIONE MAX MAX PRESSURE bar-PSI	PESO APPROX APPROX WEIGHT kg-lbt	VALVOLA TIPO TYPE OF VALVE
DCF120	BSPP 1/2	40 (10.6)	350 (5075)	1,5 (3.3)	VMD40S

PERFORMANCES



DCM VALVOLE ANTIURTO DOPPIE INCROCIATE

DOUBLE CROSS LINE DIRECT ACTING RELIEF VALVES

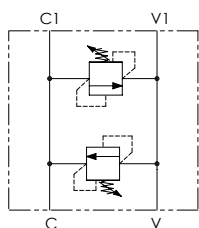


CODICE ORDINAZIONE ORDERING CODE

01	02	03
DCM		

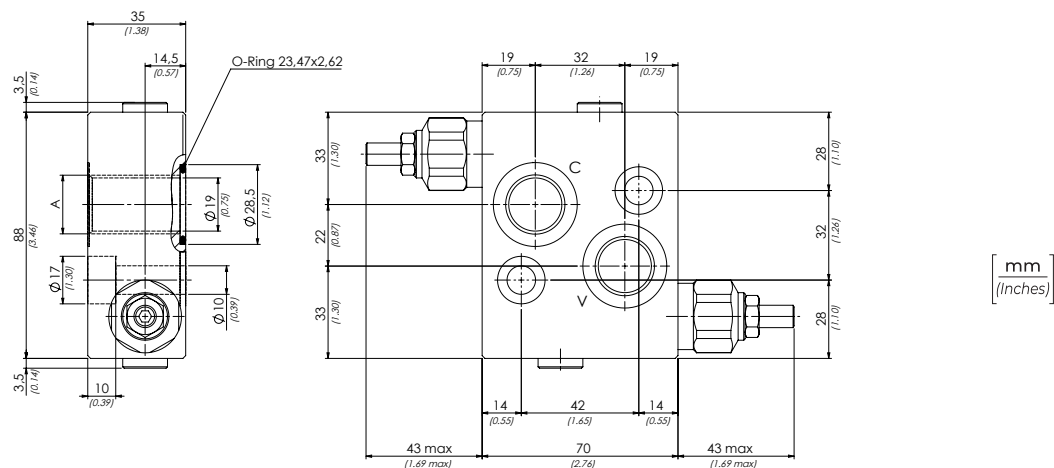
01	VALVOLE ANTIURTO DOPPIE INCROCIATE (DOUBLE CROSS LINE DIRECT ACTING RELIEF VALVES)		DCM
02	DIMENSIONE (SIZE)	BSPP 1/2	120
03	MOLLA (SPRING) 10/40 bar (145/580 PSI) max	12 bar/al giro (174 PSI/turn)	1
	MOLLA (SPRING) 20/210 bar (290/3045 PSI) max	33 bar/al giro (479 PSI/turn)	2
	MOLLA (SPRING) 70/350 bar (1015/5075 PSI) max	70 bar/al giro (1015 PSI/turn)	3

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



DATI TECNICI / TECHNICAL DATA

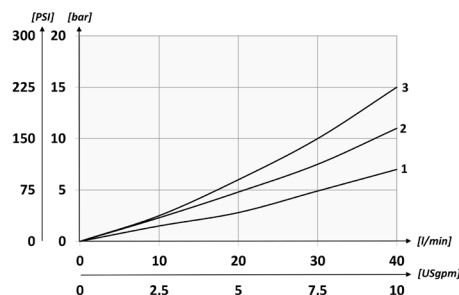
Olio idraulico - Mineral oil	ISO 6743/4 (DIN 51524)
Viscosità olio - Oil viscosity	15-250 mm²/s (15 to 250 cSt)
Classe di contaminazione max con filtro Max contamination index with filter	ISO 4406:1999 Classe 19/17/14
Temperatura dell'olio - Oil temperature	-20°C +80°C -4°F + 176°F
Temperatura ambiente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



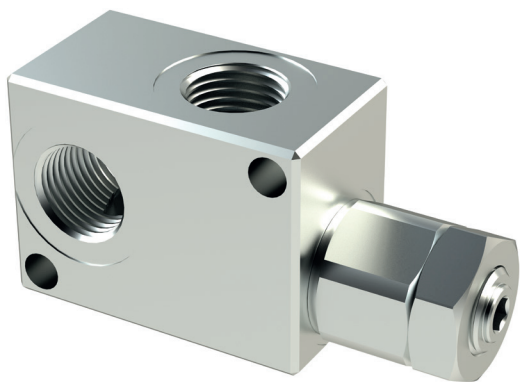
CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	A	PORTATA MAX MAX FLOW l/min-U- Sgpm	PRESSIONE MAX MAX PRESSURE bar-PSI	PESO APPROX APPROX WEIGHT kg-lbt	VALVOLA TIPO TYPE OF VALVE
DCM120	BSPP 1/2	40 (10.6)	350 (5075)	1,45 (3.20)	VMD40S

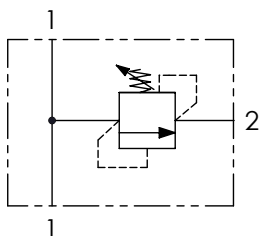
PERFORMANCES



VMDR1 VALVOLE DI MASSIMA PRESSIONE DIRETTA IN LINEA DIRECT ACTING PRESSURE RELIEF VALVES



SCHEMA IDRAULICO / HYDRAULIC CIRCUIT

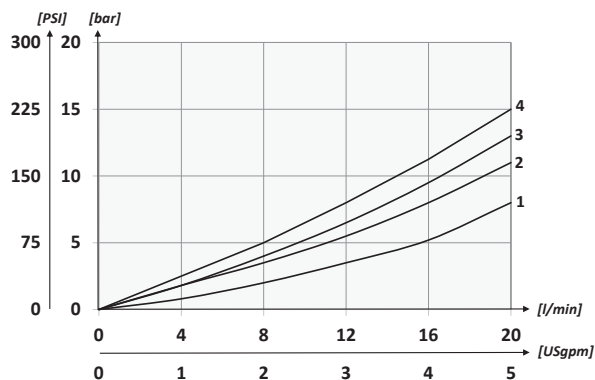


CODICE ORDINAZIONE ORDERING CODE

01	02	03	04
VMDR1		C	

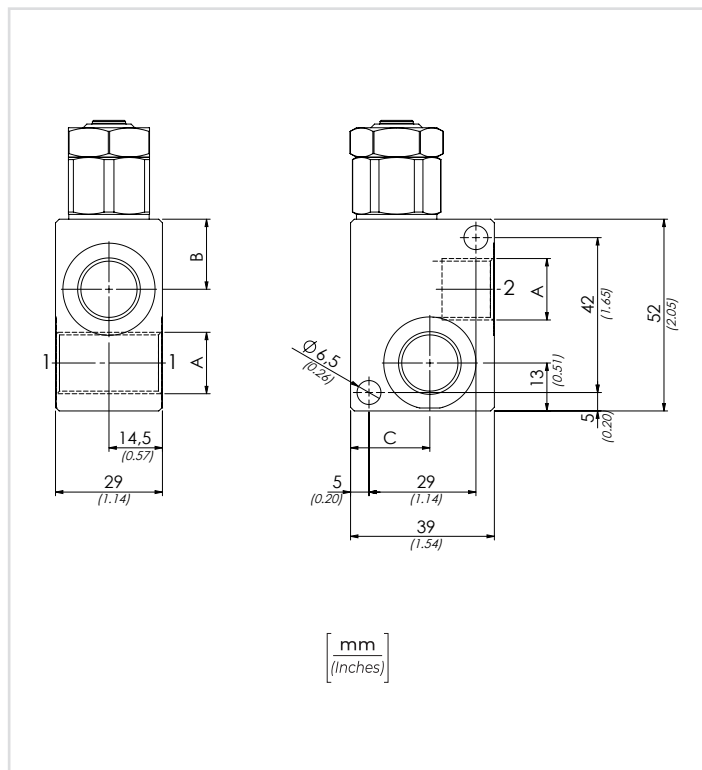
01	VALVOLE DI MASSIMA PRESSIONE DIRETTA IN LINEA (DIRECT ACTING PRESSURE RELIEF VALVES)	VMDR1
02	DIMENSIONE (SIZE)	BSPP 1/4 140
		BSPP 3/8 380
03	REGOLAZIONE (SETTING)	Chiave (Screw) C
04	MOLLA (SPRING) 10/40 bar (145/580PSI) max	20 bar/al giro (290 PSI/turn) 1
	MOLLA (SPRING) 20/110 bar (290/1595 PSI) max	40 bar/al giro (580 PSI/turn) 2
	MOLLA (SPRING) 30/210 bar (435/3045 PSI) max	70 bar/al giro (1015 PSI/turn) 3
	MOLLA (SPRING) 40/350 bar (580/5075 PSI) max	130 bar/al giro (1885 PSI/turn) 4

PERFORMANCES



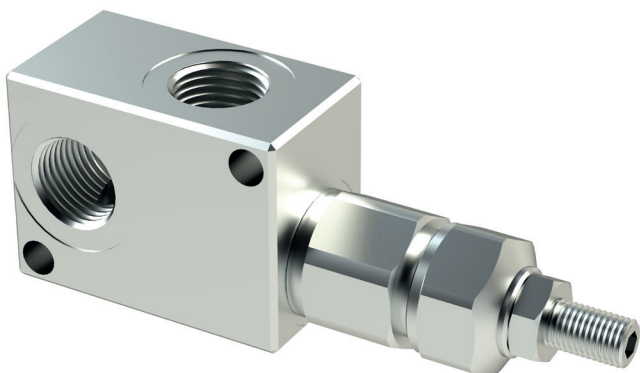
DATI TECNICI / TECHNICAL DATA

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 - Environment 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)	

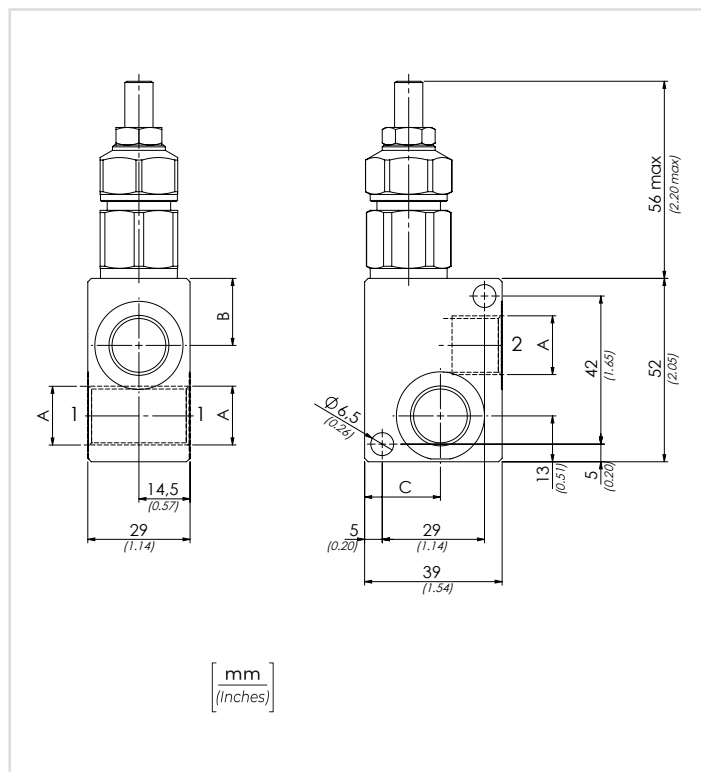
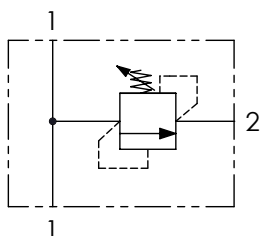


CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	A	PORTATA MAX (l/min) MAX FLOW (USgpm)	PRESSIONE MAX (bar) MAX PRESSURE (PSI)	B	C	PESO APPROX (kg) APPROX WEIGHT (lbt)
VMDR1140	BSPP 1/4	20 (5.3)	350 (5075)	17 (0.67)	20 (0.79)	0,47 (1.03)
VMDR1380	BSPP 3/8			19 (0.75)	18 (0.71)	0,43 (0.95)



SCHEMA IDRAULICO / HYDRAULIC CIRCUIT

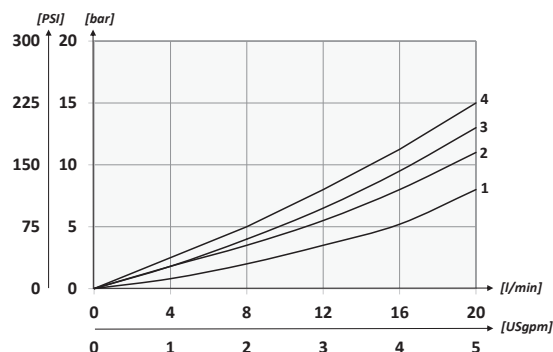


CODICE ORDINAZIONE
ORDERING CODE

VMDR10

01	VALVOLE DI MASSIMA PRESSIONE DIRETTA IN LINEA (DIRECT ACTING PRESSURE RELIEF VALVES)		VMDR10
02	DIMENSIONE (SIZE)	BSPP 1/4	140
		BSPP 3/8	380
03	REGOLAZIONE (SETTING)	Chiave (Screw)	C
		Volantino (Handknob) Tipo (Type) 81300109	V
04	MOLLA (SPRING) 10/40 bar (145/580 PSI) max	12 bar/al giro (174 PSI/turn)	1
	MOLLA (SPRING) 20/110 bar (290/1595 PSI) max	37 bar/al giro (537 PSI/turn)	2
	MOLLA (SPRING) 30/210 bar (435/3045 PSI) max	67 bar/al giro (972 PSI/turn)	3
	MOLLA (SPRING) 40/350 bar (580/5075 PSI) max	131 bar/al giro (1900 PSI/turn)	4

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 - Environment 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

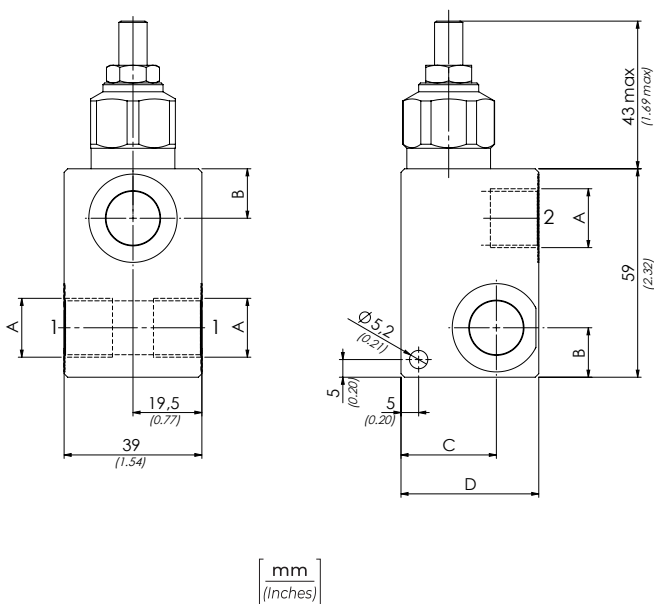
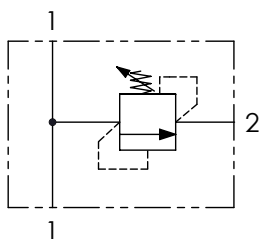
TIPO TYPE	A	PORTATA MAX (l/min) MAX FLOW (USgpm)	PRESSIONE MAX (bar) MAX PRESSURE (PSI)	B	C	PESO APPROX (kg) APPROX WEIGHT (lbt)
VMDR10140	BSPP 1/4	20 (5.3)	350 (5075)	17 (0.67)	20 (0.79)	0,51 (1.12)
VMDR10380	BSPP 3/8			19 (0.75)	18 (0.71)	0,47 (1.03)

VMDR40

VALVOLE DI MASSIMA PRESSIONE DIRETTA IN LINEA DIRECT ACTING PRESSURE RELIEF VALVES



SCHEMA IDRAULICO / HYDRAULIC CIRCUIT

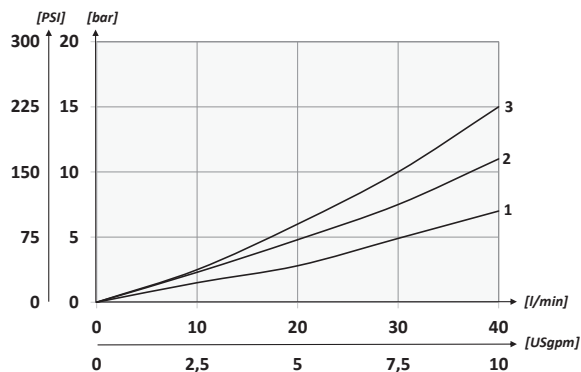


CODICE ORDINAZIONE ORDERING CODE

01	02	03	04
VMDR40			

01	VALVOLE DI MASSIMA PRESSIONE DIRETTA IN LINEA (DIRECT ACTING PRESSURE RELIEF VALVES)		VMDR40
02	DIMENSIONE (SIZE)	BSPP 3/8	380
		BSPP 1/2	120
03	REGOLAZIONE (SETTING)	Chiave (Screw)	C
		Volantino (Handknob) Tipo (Type) 81300109	V
04	MOLLA (SPRING) 10/90 bar (145/1305 PSI) max	12 bar/al giro (174 PSI/turn)	1
	MOLLA (SPRING) 20/210 bar (290/3045 PSI) max	33 bar/al giro (479 PSI/turn)	2
	MOLLA (SPRING) 70/350 bar (1015/5075 PSI) max	70 bar/al giro (1015 PSI/turn)	3

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 - Environment 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

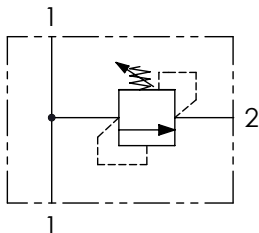
TIPO TYPE	A	PORTATA MAX (l/min) MAX FLOW (USgpm)	PRESSIONE MAX (bar) MAX PRESSURE (PSI)	B	C	D	PESO APPROX (kg) APPROX WEIGHT (lbt)
VMDR40380	BSPP 3/8	40 (10.6)	350 (5075)	14 (0.55)	27 (1.06)	39 (1.54)	0,64 (1.39)
VMDR40120	BSPP 1/2			15 (0.59)	29,5 (1.16)	45 (1.77)	0,69 (1.50)

VMDR90

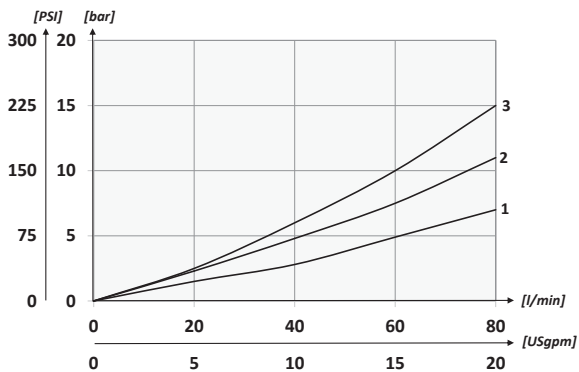
VALVOLE DI MASSIMA PRESSIONE DIRETTA IN LINEA
DIRECT ACTING PRESSURE RELIEF VALVES



SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



PERFORMANCES



DATI TECNICI / TECHNICAL DATA

Oil 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 - Environment 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)			

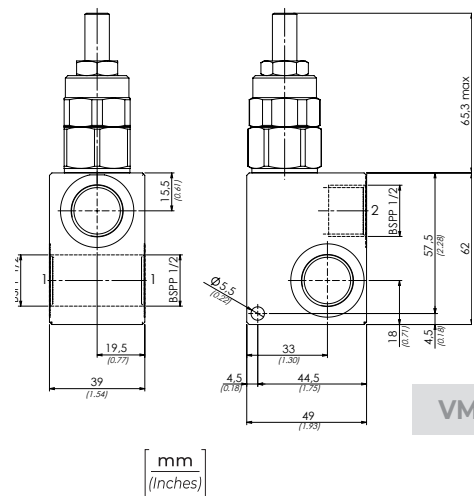
CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	PORTATA MAX (l/min) MAX FLOW (USgpm)	PRESSIONE MAX (bar) MAX PRESSURE (PSI)	PESO APPROX (kg) APPROX WEIGHT (lbt)
VMDR90120	80 (21.1)	350 (5075)	0,65 (1.43)
VMDR90340			1 (2.2)

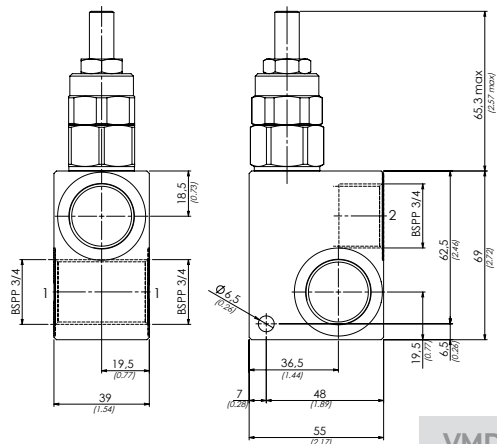
CODICE ORDINAZIONE ORDERING CODE

01	02	03	04
VMDR90			

01	VALVOLE DI MASSIMA PRESSIONE DIRETTA IN LINEA (DIRECT ACTING PRESSURE RELIEF VALVES)		VMDR90
02	DIMENSIONE (SIZE)	BSPP 1/2	120
		BSPP 3/4	340
03	REGOLAZIONE (SETTING)	Chiave (Screw)	C
		Volantino (Handknob) Tipo (Type) 81300023	V
04	MOLLA (SPRING) 10/100 bar (145/1450 PSI) max	26 bar/al giro (377 PSI/turn)	1
	MOLLA (SPRING) 20/250 bar (290/3625 PSI) max	41 bar/al giro (595 PSI/turn)	2
	MOLLA (SPRING) 50/350 bar (725/5075 PSI) max	91 bar/al giro (1320 PSI/turn)	3



VMDR90120



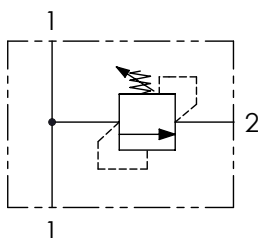
VMDR90340

VMDR120

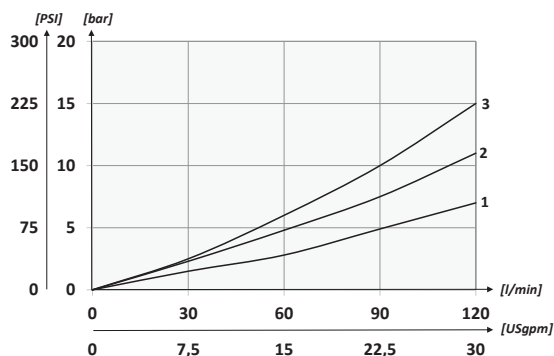
VALVOLE DI MASSIMA PRESSIONE DIRETTA IN LINEA DIRECT ACTING PRESSURE RELIEF VALVES



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 - Environment 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)	

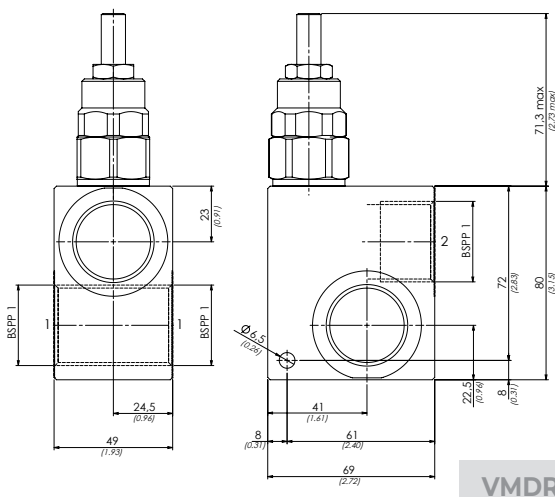
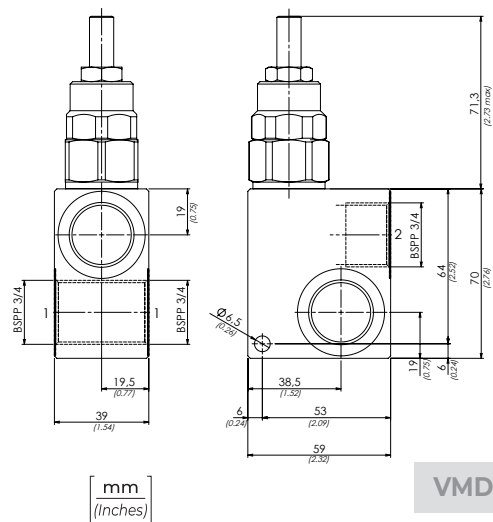
CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	PORTATA MAX (l/min) MAX FLOW (USgpm)	PRESSIONE MAX (bar) MAX PRESSURE (PSI)	PESO APPROX (kg) APPROX WEIGHT (lb)
VMDR120340	120 (31.7)	350 (5075)	1,1 (2.42)
VMDR120100			1,7 (3.74)

CODICE ORDINAZIONE ORDERING CODE

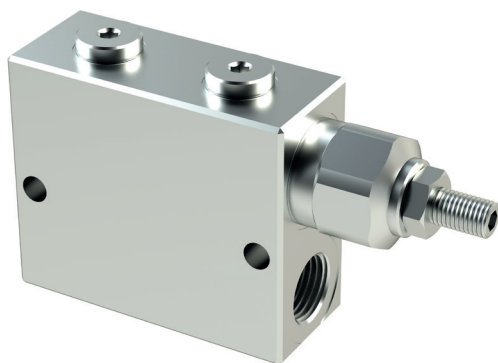
01	02	03	04
VMDR120			

01	VALVOLE DI MASSIMA PRESSIONE DIRETTA IN LINEA (DIRECT ACTING PRESSURE RELIEF VALVES)	VMDR120
02	DIMENSIONE (SIZE)	BSPP 3/4 340
		BSPP 1 100
03	REGOLAZIONE (SETTING)	Chiave (Screw) C
		Volantino (Handknob) Tipo (Type) 81300023 V
04	MOLLA (SPRING) 10/100 bar (145/1450 PSI) max	21 bar/al giro (305 PSI/turn) 1
	MOLLA (SPRING) 20/250 bar (290/3625 PSI) max	48 bar/al giro (696 PSI/turn) 2
	MOLLA (SPRING) 40/350 bar (580/5075 PSI) max	55 bar/al giro (798 PSI/turn) 3

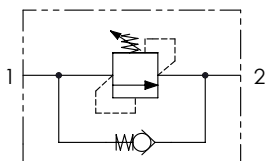


VSL VALVOLE DI SEQUENZA DIRETTE

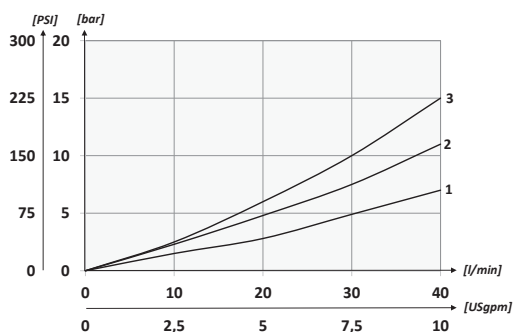
IN-LINE DIRECT SEQUENCE VALVES



SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



PERFORMANCES



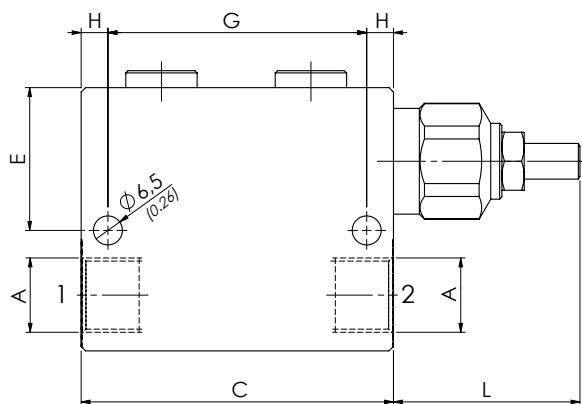
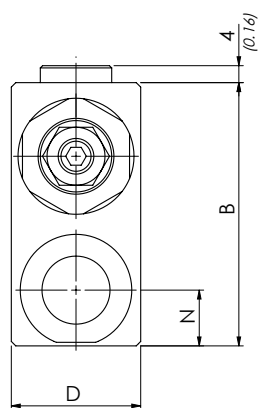
CODICE ORDINAZIONE ORDERING CODE

01	02	03
VSL		

01	VALVOLE DI SEQUENZA DIRETTE (IN-LINE DIRECT SEQUENCE VALVES)			VSL
02	DIMENSIONE (SIZE)	BSPP 1/4		140
		BSPP 3/8		380
		BSPP 1/2		120
03	MOLLA (SPRING) 20/110 bar (290/1595 PSI) max	35 bar/al giro (508 PSI/turn)	BSPP 1/4	1
	MOLLA (SPRING) 10/90 bar (145/1305 PSI) max	12 bar/al giro (174 PSI/turn)	BSPP 3/8-BSPP 1/2	
	MOLLA (SPRING) 30/210 bar (435/3045 PSI) max	62 bar/al giro (899 PSI/turn)	BSPP 1/4	2
	MOLLA (SPRING) 20/210 bar (290/3045 PSI) max	30 bar/al giro (435 PSI/turn)	BSPP 3/8-BSPP 1/2	
	MOLLA (SPRING) 40/350 bar (580/5075 PSI) max	120 bar/al giro (1740 PSI/turn)	BSPP 1/4	3
	MOLLA (SPRING) 70/350 bar (1015/5075 PSI) max	65 bar/al giro (943 PSI/turn)	BSPP 3/8-BSPP 1/2	

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 - Environment 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)]

CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	A	PORTATA MAX MAX FLOW l/min-USgpm	PRESSIONE MAX MAX PRESSURE bar-PSI	B	C	D	E	G	L	N	H	P	PESO APPROX APPROX WEIGHT kg-lbt
VSL140	BSPP 1/4	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	BSPP 3/8	40 (10.6)			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	BSPP 1/2			70 (2.76)			35 (1.38)			17 (0.67)			1 (2.21)