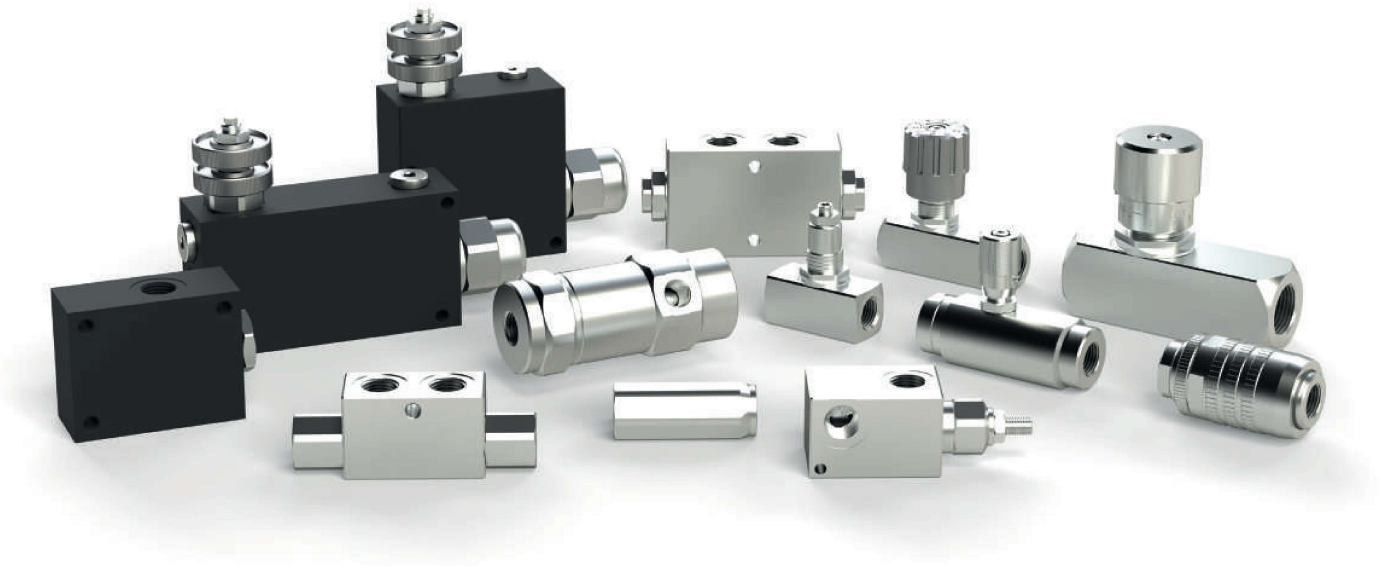
VALVOLE IN LINEA

IN-LINE VALVES

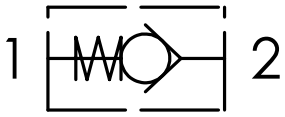
Le famiglia delle valvole in linea comprende: valvole di regolazione della portata unidirezionali, bidirezionali, valvole per il controllo di portata compensate, valvole divisori/riunificatori di flusso, valvole finecorsa, valvole di blocco singole e doppie, valvole antiurto doppie, valvole limitatrici di pressione per montaggio in linea e valvole di sequenza.

Unidirectional flow control valves, bidirectional flow control valves, flow control valves pressure compensated, flow dividers, end-stroke valves, single or double acting pilot check valves, double cross direct acting relief valves, direct acting relief valves and sequence valves.



OLEOWEB
Valves and solutions

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT

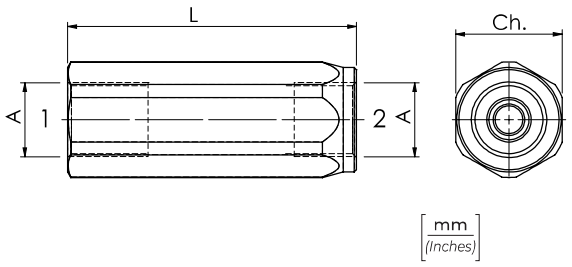


DATI TECNICI / TECHNICAL DATA

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 Max contamination index	**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

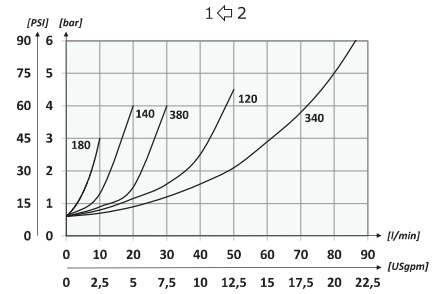


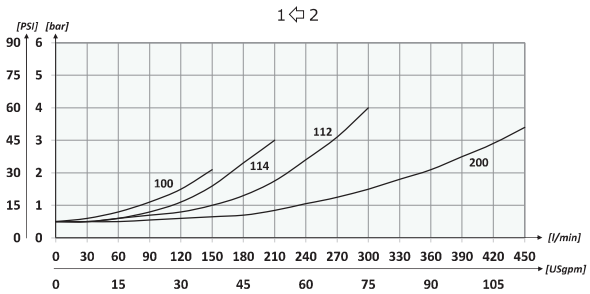
CODICE ORDINAZIONE / ORDERING CODE

01	02	03	04
VUR			

01	VALVOLE UNIDIREZIONALI A COLONNETTA F/F (F/F CHECK HOUSING VALVES)		**VUR**
02	DIMENSIONE (SIZE)	BSPP 1/8	**180**
		BSPP 1/4	**140**
		BSPP 3/8	**380**
		BSPP 1/2	**120**
		BSPP 3/4	**340**
		BSPP 1	**100**
		BSPP 1-1/4	**114**
		BSPP 1-1/2	**112**
		BSPP 2	**200**
03	TENUTA (SEALING)	Tenuta a sfera solo per **VUR180/140/380/120 e molla 0,5 bar** (Ball sealing only for VUR180/140/380/120 and spring 0,5 bar)	**SF**
		Tenuta a cono (Poppet sealing)	**SP**
04	MOLLA (SPRING)	**0,5 bar** Standard (7.25 PSI)	**0,5**
		1,5 bar (21.7 PSI) — **Solo versione 112** (Only 112 version)	**1,5**
		3 bar (43.5 PSI)	**3**
		4,5 bar (65.25 PSI)	**4,5**
		6 bar (87 PSI)	**6**
		10 bar (145 PSI) — **Solo versione 120** (Only 120 version)	**10**

PERFORMANCES

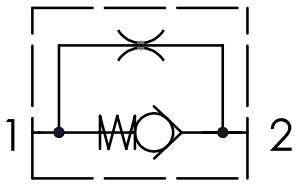




CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	A	PORTATA MAX (l/min) MAX FLOW (USgpm)	PRESSIONE MAX (bar) MAX PRESSURE (PSI)	L	Ch.	PESO APPROX (kg) APPROX WEIGHT (lbt)
VUR180	**BSPP 1/8**	**5** (1.3)		**47** (1.85)	**14**	**0,05** (0.11)
VUR140	**BSPP 1/4**	**15** (4.0)		**55** (2.17)	**19**	**0,10** (0.22)
VUR380	**BSPP 3/8**	**30** (7.9)	**400** (5800)	**65** (2.56)	**24**	**0,18** (0.40)
VUR120	**BSPP 1/2**	**50** (13.2)		**75** (2.95)	**27**	**0,23** (0.50)
VUR340	**BSPP 3/4**	**90** (23.8)		**86,5** (3.41)	**35**	**0,45** (1)
VUR100	**BSPP 1**	**150** (39.6)		**110** (4.33)	**41**	**0,73** (1.6)
VUR114	**BSPP 1-1/4**	**200** (52.8)	**350** (5075)	**123** (4.84)	**54**	**1,5** (3.3)
VUR112	**BSPP 1-1/2**	**300** (79.2)		**138** (5.43)	**59**	**1,85** (4.07)
VUR200	**BSPP 2**	**430** (113.5)	**250** (3625)	**145** (5.71)	**69**	**2,7** (6)

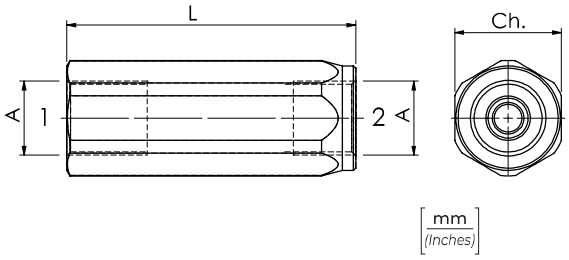
SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



DATI TECNICI / TECHNICAL DATA

Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)	
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)	
Classe di contaminazione max Max contamination index	**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)

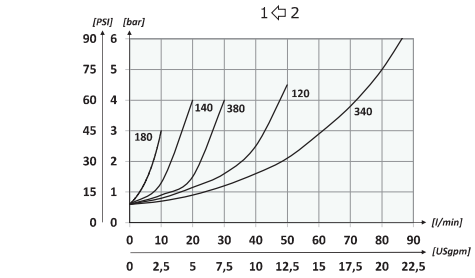


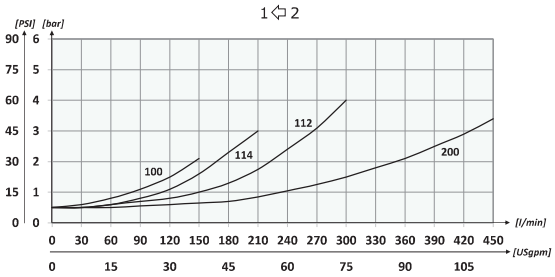
CODICE ORDINAZIONE / ORDERING CODE

01	02	03	04	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)	BSPP 1/8	**180**
		BSPP 1/4	**140**
		BSPP 3/8	**380**
		BSPP 1/2	**120**
		BSPP 3/4	**340**
		BSPP 1	**100**
		BSPP 1-1/4	**114**
		BSPP 1-1/2	**112**
		BSPP 2	**200**
03	TENUTA (SEALING)	**Tenuta a cono** (Poppet sealing)	**SP**
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**
		10 bar (145 PSI) — **Solo versione 120** (Only 120 version)	**10**
05	FORO DI STROZZATURA (RESTRICTION HOLE)	Indicare il diametro del foro. Esempio: VUR380SP0,5 con foro Ø 1,5 mm **Cod. VUR380SP0,5-1,5** State the hole diameter. Example: VUR380SP0.5-1,5 with Ø 0,06 in hole **Cod. VUR380SP0,5-1,5**	

PERFORMANCES





CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

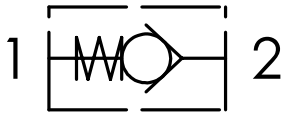
TIPO TYPE	A	PORTATA MAX (l/min) MAX FLOW (USgpm)	PRESSIONE MAX (bar) MAX PRESSURE (PSI)	L	Ch.	PESO APPROX (kg) APPROX WEIGHT (lbt)
VUR180-H	**BSPP 1/8**	**5** (1.3)		**47** (1.85)	**14**	**0,05** (0.11)
VUR140-H	**BSPP 1/4**	**15** (4.0)		**55** (2.17)	**19**	**0,10** (0.22)
VUR380-H	**BSPP 3/8**	**30** (7.9)	**400** (5800)	**65** (2.56)	**24**	**0,18** (0.40)
VUR120-H	**BSPP 1/2**	**50** (13.2)		**75** (2.95)	**27**	**0,23** (0.50)
VUR340-H	**BSPP 3/4**	**90** (23.8)		**86,5** (3.41)	**35**	**0,45** (1)
VUR100-H	**BSPP 1**	**150** (39.6)		**110** (4.33)	**41**	**0,73** (1.6)
VUR114-H	**BSPP 1-1/4**	**200** (52.8)	**350** (5075)	**123** (4.84)	**55**	**1,5** (3.3)
VUR112-H	**BSPP 1-1/2**	**300** (79.2)		**138** (5.43)	**60**	**1,85** (4.07)
VUR200-H	**BSPP 2**	**430** (113.5)	**250** (3625)	**145** (5.71)	**70**	**2,7** (6)

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**
		1-1/16-12UN	**12**
		1-5/16-12UN	**16**
		1-5/8-12UN	**20**
		1-7/8-12UN	**24**
		2-1/2-12UN	**32**
03	TENUTA (SEALING)	Tenuta a cono (Poppet sealing)	**SP**
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**

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT

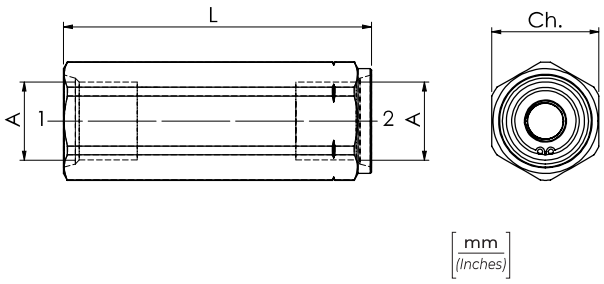


DATI TECNICI / TECHNICAL DATA

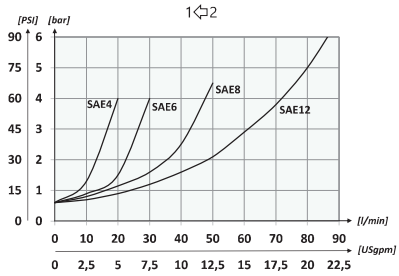
Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)	
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)	
Classe di contaminazione max Max contamination index	**ISO 4406:1999 Classe 19/17/14**	
Temperatura dell'olio - Oil temperature	**-20°C +80°C**	-4°F + 176°F
Temperatura ambiente -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

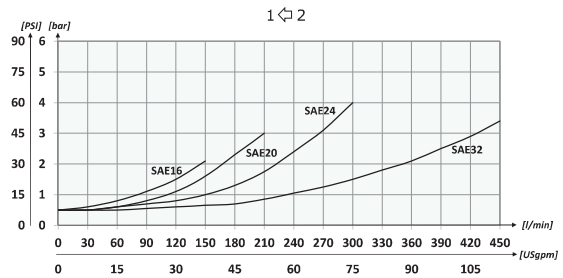
È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)

Trafilamento massimo Max leakage	**0,25 cm³/min - 5 gocce/min** 0,015 in³/min - 5 drops/min



PERFORMANCES

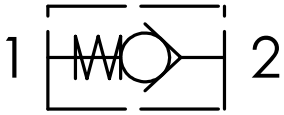




CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	A	PORTATA MAX (l/min) MAX FLOW (USgpm)	PRESSIONE MAX (bar) MAX PRESSURE (PSI)	L	Ch.	PESO APPROX (kg) APPROX WEIGHT (lbt)
VUR4	**7/16-20UNF**	**15** (4)	**400** (5800)	**55** (2.17)	**19**	**0,11** (0.24)
VUR6	**9/16-18UNF**	**30** (7.9)		**58** (2.28)	**19**	**0,09** (0.20)
VUR8	**3/4-16UNF**	**50** (13.2)		**69** (2.71)	**24**	**0,18** (0.40)
VUR12	**1-1/16-12UN**	**90** (23.8)		**88,5** (3.48)	**35**	**0,45** (1)
VUR16	**1-5/16-12UN**	**150** (39.6)	**350** (5075)	**110** (4.33)	**41**	**0,73** (1.6)
VUR20	**1-5/8-12UN**	**200** (52.8)		**120** (4.72)	**54**	**1,5** (3.43)
VUR24	**1-7/8-12UN**	**300** (79.2)		**138** (5.43)	**59**	**2,5** (5.5)
VUR32	**2-1/2-12UN**	**430** (113.5)			**69**	**2,9** (6.4)

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



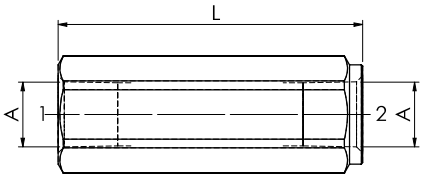
CODICE ORDINAZIONE / ORDERING CODE

01	02	03	04
VUR		SP	

01	VALVOLE UNIDIREZIONALI A COLONNETTA F/F (F/F CHECK HOUSING VALVES)		**VUR**
02	DIMENSIONE (SIZE)	1/8 NPTF	**180N**
		1/4 NPTF	**140N**
		3/8 NPTF	**380N**
		1/2 NPTF	**120N**
		3/4 NPTF	**340N**
		1 NPTF	**100N**
		1-1/4 NPTF	**114N**
		1-1/2 NPTF	**112N**
		2 NPTF	**200N**
03	TENUTA (SEALING)	Tenuta a cono (Poppet sealing)	**SP**
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**
		10 bar (145 PSI) — **Solo versione 120N** (Only 120N version)	**10**

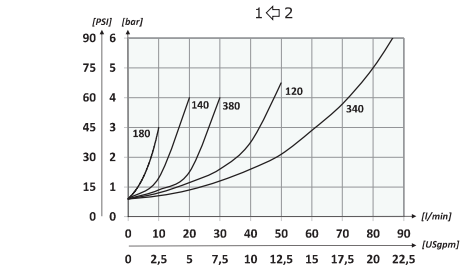
DATI TECNICI / TECHNICAL DATA

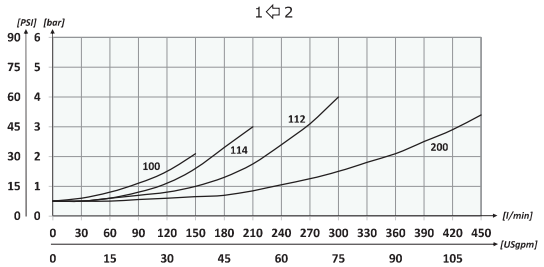
Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)
Classe di contaminazione max Max contamination index	**ISO 4406:1999 Classe 19/17/14**
Temperatura dell'olio - Oil temperature	**-20°C +80°C** -4°F + 176°F
Temperatura ambiente - Environment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



mm (Inches)

PERFORMANCES

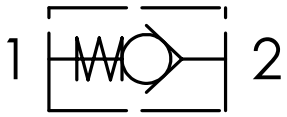




CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	A	PORTATA MAX (l/min) MAX FLOW (USgpm)	PRESSIONE MAX (bar) MAX PRESSURE (PSI)	L	Ch.	PESO APPROX (kg) APPROX WEIGHT (lbt)
VUR180N	**1/8 NPTF**	**5** (1,3)	**400** (5800)	**47** (1.85)	**14**	**0,05** (0.11)
VUR140N	**1/4 NPTF**	**15** (4)		**58** (2.28)	**19**	**0,10** (0.22)
VUR380N	**3/8 NPTF**	**30** (7.9)		**69** (2.72)	**24**	**0,18** (0.40)
VUR120N	**1/2 NPTF**	**50** (13.2)		**75** (2.95)	**27**	**0,23** (0.50)
VUR340N	**3/4 NPTF**	**90** (23.8)		**88,5** (3.48)	**35**	**0,45** (1)
VUR100N	**1 NPTF**	**150** (39.6)	**350** (5075)	**110** (4.33)	**41**	**0,75** (1.7)
VUR114N	**1-1/4 NPTF**	**200** (52.8)		**120** (4.72)	**54**	**1,5** (3.3)
VUR112N	**1-1/2 NPTF**	**300** (79.2)		**138** (5.43)	**59**	**2,6** (5.7)
VUR200N	**2 NPTF**	**430** (113.5)			**69**	**3** (6.60)

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



CODICE ORDINAZIONE
ORDERING CODE

01	02	03	04
VMF			

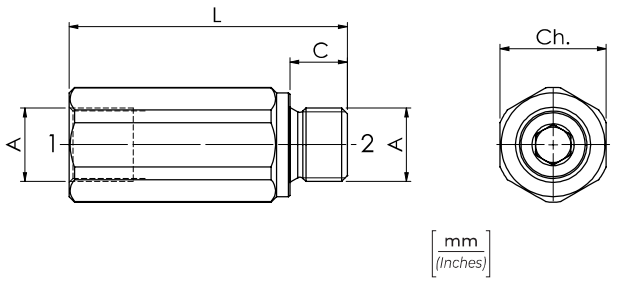
01	VALVOLE UNIDIREZIONALI A COLONNETTA M/F (M/F CHECK HOUSING VALVES)		**VMF**
02	DIMENSIONE (SIZE)	BSPP 1/4	**140**
		BSPP 3/8	**380**
		BSPP 1/2	**120**
		BSPP 3/4	**340**
		BSPP 1	**100**
03	TENUTA (SEALING)	Tenuta a sfera solo per **VMF140/380/120 e molla 0,5 bar** (Ball sealing only for VMF140/380/120 and spring 0,5 bar)	**SF**
		Tenuta a cono (Poppet sealing)	**SP**
04	MOLLA (SPRING)	**0,5 bar** Standard (7.25 PSI)	**0,5**
		3 bar (43.5 PSI)	**3**
		4,5 bar (65 PSI)	**4,5**
		6 bar (87 PSI)	**6**
		10 bar (145 PSI) — **Solo versione 120** (Only 120 version)	**10**

DATI TECNICI / TECHNICAL DATA

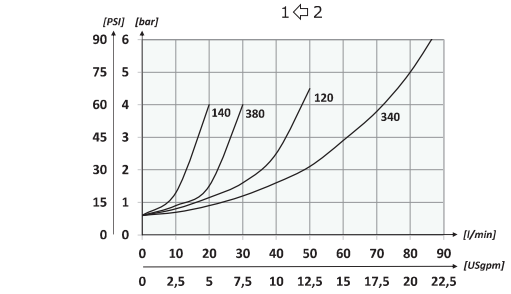
Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)
Classe di contaminazione max Max contamination index	**ISO 4406:1999 Classe 19/17/14**
Temperatura dell'olio - Oil temperature	**-20°C +80°C** -4°F + 176°F
Temperatura ambiente - Environment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

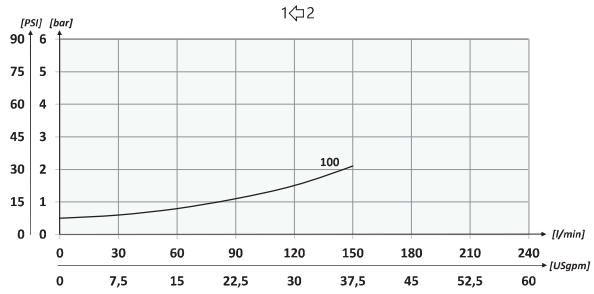
È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)

Trafilamento massimo Max leakage	**0,25 cm³/min - 5 gocce/min** 0,015 in³/min - 5 drops/min



PERFORMANCES





CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

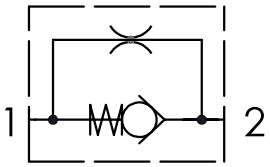
TIPO TYPE	A	PORTATA MAX MAX FLOW l/min-USgpm	PRESSIONE MAX (bar) MAX PRESSURE (PSI)	L	C	Ch.	PESO APPROX APPROX WEIGHT kg-lbt
VMF140	**BSPP 1/4**	**15** (4)	**400** (5800)	**50** (1.96)	**11** (0.43)	**19** (0.75)	**0,08** (0.18)
VMF380	**BSPP 3/8**	**30** (8)		**63** (2.48)	**13** (0.51)	**24** (0.94)	**0,16** (0.35)
VMF120	**BSPP 1/2**	**50** (13)		**70** (2.75)	**14** (0.55)	**27** (1.06)	**0,20** (0.44)
VMF340	**BSPP 3/4**	**90** (23)		**82** (3.23)	**17** (0.67)	**35** (1.38)	**0,39** (0.86)
VMF100	**BSPP 1**	**150** (40)	**350** (5075)	**100,5** (3.95)	**19** (0.75)	**41** (1.61)	**0,63** (1.38)

CODICE ORDINAZIONE / ORDERING CODE

01	02	03	04	05
VMF		SP		

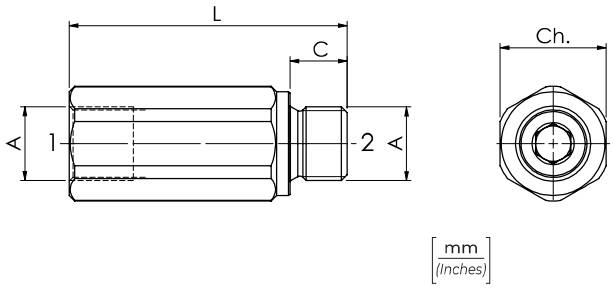
01	VALVOLE UNIDIREZIONALI A COLONNETTA M/F (M/F CHECK HOUSING VALVES)		**VMF**
02	DIMENSIONE (SIZE)	BSPP 1/4	**140**
		BSPP 3/8	**380**
		BSPP 1/2	**120**
		BSPP 3/4	**340**
		BSPP 1	**100**
03	TENUTA (SEALING)	Tenuta a cono (Poppet sealing)	**SP**
04	MOLLA (SPRING)	**0,5 bar** Standard (7.25 PSI)	**0,5**
		3 bar (43.5 PSI)	**3**
		4,5 bar (65 PSI)	**4,5**
		6 bar (87 PSI)	**6**
		10 bar (145 PSI) — **Solo versione 120** (Only 120 version)	**10**
05	FORO DISTROZZATURA (RESTRICTION HOLE)	Indicare il diametro del foro. Esempio: VMF380SP0,5 con foro Ø 1,5 mm **Cod. VMF380SP0,5-1,5** State the hole diameter Example: VMF380SP0,5 with Ø 0,06 in hole **Cod. VMF380SP0,5-1,5**	

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT

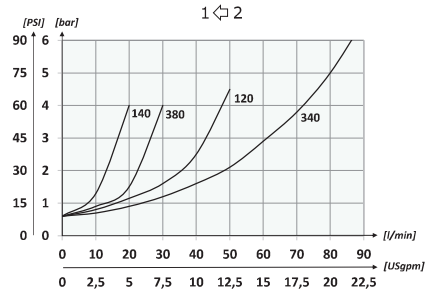


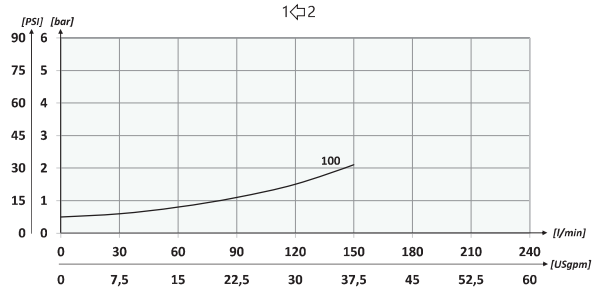
DATI TECNICI / TECHNICAL DATA

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 Max contamination index	**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



PERFORMANCES





CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

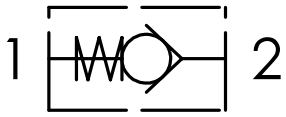
TIPO TYPE	A	PORTATA MAX (l/min) MAX FLOW (USgpm)	PRESSIONE MAX (bar) MAX PRESSURE (PSI)	L	C	Ch.	PESO APPROX (kg) APPROX WEIGHT (lbt)
VMF140-H	**BSPP 1/4**	**15** (4)	**400** (5800)	**50** (1.96)	**11** (0.43)	**19** (0.75)	**0,08** (0.18)
VMF380-H	**BSPP 3/8**	**30** (8)		**63** (2.48)	**13** (0.51)	**24** (0.94)	**0,16** (0.35)
VMF120-H	**BSPP 1/2**	**50** (13)		**70** (2.75)	**14** (0.55)	**27** (1.06)	**0,20** (0.44)
VMF340-H	**BSPP 3/4**	**90** (23)		**82** (3.23)	**17** (0.67)	**35** (1.38)	**0,39** (0.86)
VMF100-H	**BSPP 1**	**150** (40)	**350** (5075)	**100,5** (3.95)	**19** (0.75)	**41** (1.61)	**0,63** (1.38)

CODICE ORDINAZIONE / ORDERING CODE

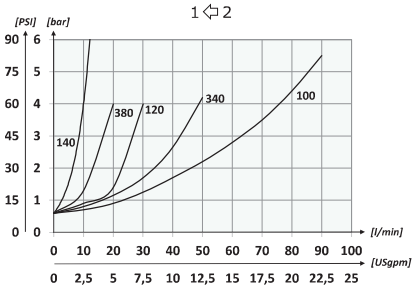
01	02	03	04
VUN			

01	VALVOLE UNIDIREZIONALI M/M (M/M CHECK VALVES)		**VUN**
02	DIMENSIONE (SIZE)	BSPP 1/4	**140**
		BSPP 3/8	**380**
		BSPP 1/2	**120**
		BSPP 3/4	**340**
		BSPP 1	**100**
03	TENUTA (SEALING)	Tenuta a sfera solo per **VUN140/380/120 e molla 0,5 bar** (Ball sealing only for VUN140/380/120 and spring 0,5 bar)	**SF**
		Tenuta a cono (Poppet sealing)	**SP**
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) (Not available for 1/4" version)	**6**

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT

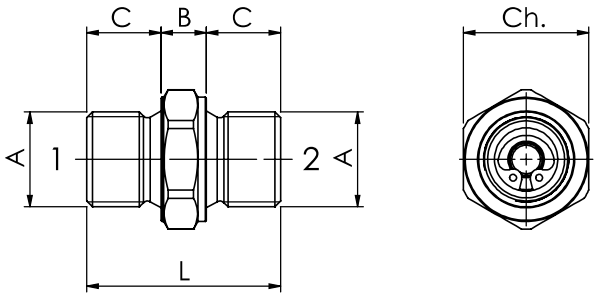


PERFORMANCES



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 Max contamination index	**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

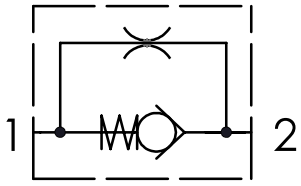


[mm (Inches)]

CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

CODICE CODE	A	PORTATA MAX MAX FLOW l/min-USgpm	PRESSIONE MAX MAX PRESSURE bar-PSI	L	B	C	Ch.	COPPIA DI SERRAGGIO TIGHTENING TORQUE Nm-lbt ft	COPPIA MAX DI SERRAGGIO TUBO (Nm) MAX TIGHTENING TORQUE FOR HOSE (lbt in)	PESO APPROX APPROX WEIGHT kg - (lbt)
VUN140	**BSPP 1/4**	**5** (1.3)	**500** (7250)	**29** (0.28)	**7** (1.27)	**11** (0.43)	**19**	**30** (22.2)	**20** (14.75)	**0,03** (0.066)
VUN380	**BSPP 3/8**	**15** (4)		**34** (1.34)	**8** (0.31)	**13** (0.51)	**22**	**45** (33.2)	**35** (25.8)	**0,05** (0.01)
VUN120	**BSPP 1/2**	**30** (7.9)		**44** (1.73)	**16** (0.63)	**14** (0.55)	**27**	**60** (44.3)	**50** (36.8)	**0,11** (0.24)
VUN340	**BSPP 3/4**	**50** (13.2)		**50** (1.97)	**16** (0.63)	**17** (0.67)	**32**	**100** (73.75)	**90** (66.3)	**0,18** (0.40)
VUN100	**BSPP 1**	**90** (23.8)		**57** (2.24)	**19** (0.75)	**19** (0.75)	**41**	**140** (103.3)	**120** (88.5)	**0,32** (0.71)

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT

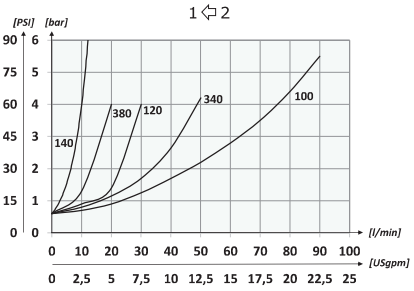


CODICE ORDINAZIONE / ORDERING CODE

01	02	03	04	05
VUN		SP		

01	VALVOLE UNIDIREZIONALI M/M CON FORO DI STROZZATURA (M/M CHECK VALVES WITH RESTRICTION HOLE)		**VUN**
02	DIMENSIONE (SIZE)	BSPP 1/4	**140**
		BSPP 3/8	**380**
		BSPP 1/2	**120**
		BSPP 3/4	**340**
		BSPP 1	**100**
03	TENUTA (SEALING)	Tenuta a cono (Poppet sealing)	**SP**
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) (Not available for 1/4" version)	**6**
05	FORO DI STROZZATURA (RESTRICTION HOLE)	Indicare il diametro del foro. Esempio: VUN380SP0,5 con foro Ø 1,5 mm **Cod. VUN380SP0,5-1,5** State the hole diameter Example: VUN380SP0,5 with Ø 0,06 in hole **Cod. VUN380SP0,5-1,5**	

PERFORMANCES

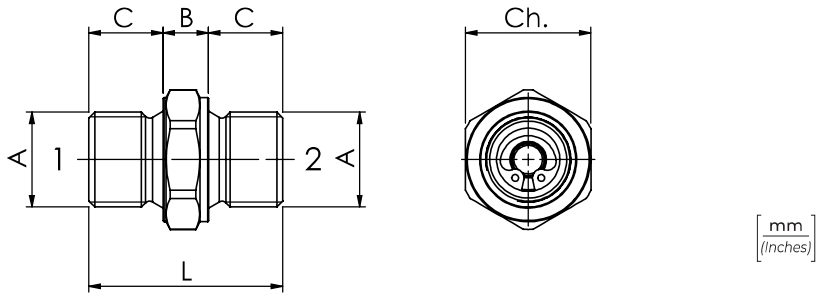


DATI TECNICI / TECHNICAL DATA

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 Max contamination index	**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



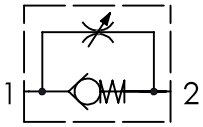
mm / (Inches)

CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

CODICE CODE	A	PORTATA MAX MAX FLOW l/min-USgpm	PRESSIONE MAX MAX PRESSURE bar-PSI	L	B	C	Ch.	COPPIA DI SERRAGGIO TIGHTENING TORQUE Nm-lbt ft	COPPIA MAX DI SERRAGGIO TUBO (Nm) MAX TIGHTENING TORQUE FOR HOSE (lbt in)	PESO APPROX (kg) APPROX WEIGHT (lbt)
VUN140-H	**BSPP 1/4**	**5** (1.3)	**500** (7250)	**29** (0.28)	**7** (1.27)	**11** (0.43)	**19**	**30** (22.2)	**20** (14.75)	**0,03** (0.066)
VUN380-H	**BSPP 3/8**	**15** (4)		**34** (1.34)	**8** (0.31)	**13** (0.51)	**22**	**45** (33.2)	**35** (25.8)	**0,05** (0.01)
VUN120-H	**BSPP 1/2**	**30** (7.9)		**44** (1.73)	**16** (0.63)	**14** (0.55)	**27**	**60** (44.3)	**50** (36.8)	**0,11** (0.24)
VUN340-H	**BSPP 3/4**	**50** (13.2)		**50** (1.97)	**16** (0.63)	**17** (0.67)	**32**	**100** (73.75)	**90** (66.3)	**0,18** (0.40)
VUN100-H	**BSPP 1**	**90** (23.8)		**57** (2.24)	**19** (0.75)	**19** (0.75)	**41**	**140** (103.3)	**120** (88.5)	**0,32** (0.71)

TENUTA A SFERA SOLO PER VURF 140/380/120
BALL SEALING ONLY FOR VURF 140/380/120

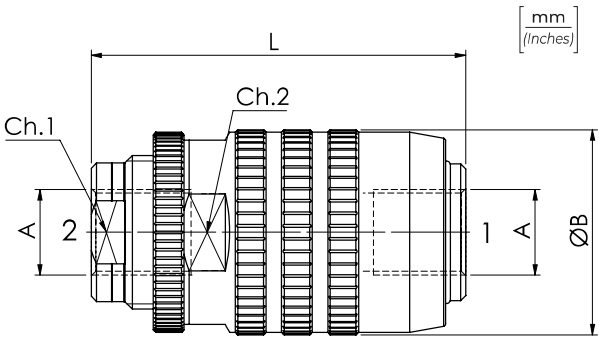
SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



CODICE ORDINAZIONE / ORDERING CODE

01	02
VURF	

01	VALVOLE DI CONTROLLO FLUSSO UNIDIREZIONALI (UNIDIRECTIONAL FLOW CONTROL VALVES)		**VURF**
02	DIMENSIONE SIZE	BSPP 1/8	**180**
		BSPP 1/4	**140**
		BSPP 3/8	**380**
		BSPP 1/2	**120**
		BSPP 3/4	**340**
		BSPP 1	**100**
		BSPP 1-1/4	**114**



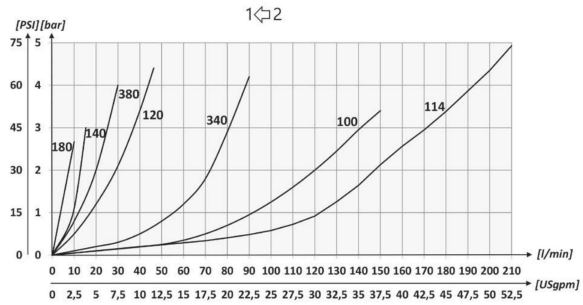
DATI TECNICI / TECHNICAL DATA

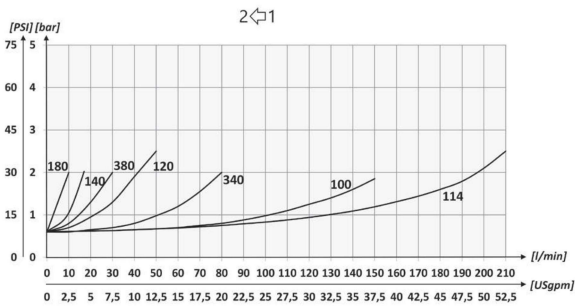
Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)	
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)	
Classe di contaminazione max Max contamination index	**ISO 4406:1999 Classe 19/17/14**	
Temperatura dell'olio - Oil temperature	**-20°C +80°C**	-4°F + 176°F
Temperatura ambiente -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

È indispensabile la presenza di un filtro nel circuito idraulico per proteggere la valvola (filtrazione consigliata 15 µm)

A filter into the hydraulic circuit necessary to protect the valve (advised filtration 15 µm)

PERFORMANCES

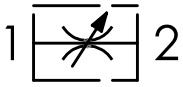




CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	A	PORTATA MAX MAX FLOW l/min-USgpm	PRESSIONE MAX (bar) MAX PRESSURE (PSI)	mm - inch B	mm - inch L	Ch. 1	Ch. 2	PESO APPROX APPROX WEIGHT kg-lbt
VURF180	**BSPP 1/8**	**5** (1,3)	**350** (5075)	**25** (0.98)	**48** (1.89)	**14**	**22**	**0,12** (0.26)
VURF140	**BSPP 1/4**	**15** (4)		**34** (1.34)	**62** (2.44)	**19**	**30**	**0,28** (0.6)
VURF380	**BSPP 3/8**	**30** (7.9)		**39** (1.54)	**73** (2.87)	**24**	**36**	**0,46** (1.01)
VURF120	**BSPP 1/2**	**45** (11.9)		**44** (1.73)	**83** (3.27)	**30**	**42**	**0,66** (1.45)
VURF340	**BSPP 3/4**	**85** (22.4)	**300** (4350)	**54** (2.13)	**102** (4.02)	**36**	**50**	**1,10** (2.42)
VURF100	**BSPP 1**	**150** (39.6)	**250** (3625)	**65** (2.56)	**124,5** (4.90)	**42**	**60**	**1,9** (4.20)
VURF114	**BSPP 1-1/4**	**200** (52.8)		**75** (2.95)	**144** (5.67)	**50**	**70**	**2,95** (6.32)

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



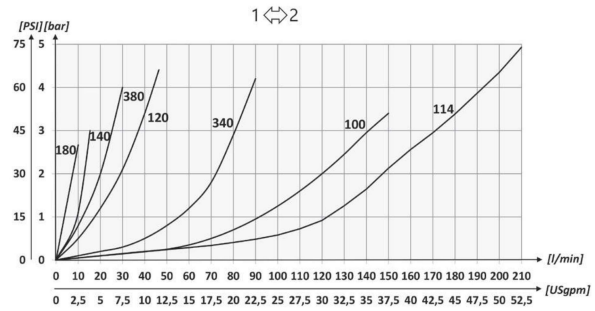
DATI TECNICI / TECHNICAL DATA

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 Max contamination index	**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 la presenza di un filtro nel circuito idraulico per proteggere la valvola (filtrazione consigliata 15 µm)

A filter into the hydraulic circuit necessary to protect the valve (advised filtration 15 µm)

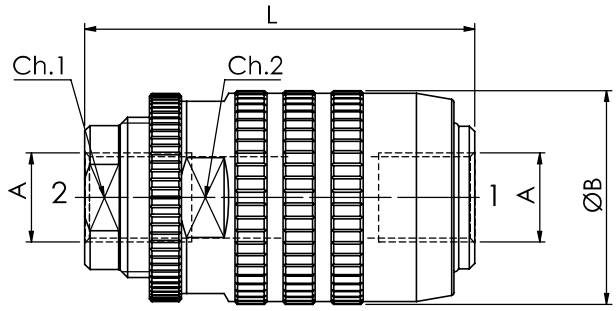
PERFORMANCES



CODICE ORDINAZIONE / ORDERING CODE

01	02
VBRF	

01	VALVOLE DI CONTROLLO FLUSSO BIDIREZIONALI (BIDIRECTIONAL FLOW CONTROL VALVES)		**VBRF**
02	DIMENSIONE SIZE	BSPP 1/8	**180**
		BSPP 1/4	**140**
		BSPP 3/8	**380**
		BSPP 1/2	**120**
		BSPP 3/4	**340**
		BSPP 1	**100**
		BSPP 1-1/4	**114**



[mm / (Inches)]

CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	A	PORTATA MAX MAX FLOW l/min-USgpm	PRESSIONE MAX MAX PRESSURE bar-PSI	mm - inch B	mm - inch L	Ch. 1	Ch. 2	PESO APPROX APPROX WEIGHT kg-lbt
VBRF180	**BSPP 1/8**	**5** (1,3)	**350** (5075)	**25** (0.98)	**48** (1.89)	**14**	**22**	**0,12** (0.26)
VBRF140	**BSPP 1/4**	**15** (4)		**34** (1.34)	**62** (2.44)	**19**	**30**	**0,28** (0.6)
VBRF380	**BSPP 3/8**	**30** (7.9)		**39** (1.54)	**73** (2.87)	**24**	**36**	**0,45** (1)
VBRF120	**BSPP 1/2**	**45** (11.9)		**44** (1.73)	**83** (3.27)	**30**	**42**	**0,63** (1.4)
VBRF340	**BSPP 3/4**	**85** (22.4)	**300** (4350)	**54** (2.13)	**102** (4.02)	**36**	**50**	**1,06** (2.33)
VBRF100	**BSPP 1**	**150** (39.6)	**250** (3625)	**65** (2.56)	**124,5** (4.90)	**42**	**60**	**1,8** (4)
VBRF114	**BSPP 1-1/4**	**200** (52.8)		**75** (2.95)	**144** (5.67)	**50**	**70**	**2,78** (5.96)

POMELLO IN ALLUMINIO PRESSOFUSO
DIE CAST ALUMINIUM HANDKNOB

BSPP	STU140 - STU380 - STU120

POMELLO IN ALLUMINIO TORNITO
TURNED ALUMINIUM HANDKNOB

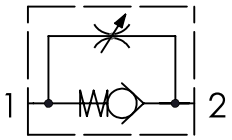
BSPP	STU180 - STU340 - STU100 - STU114 - STU112

CODICE ORDINAZIONE / ORDERING CODE

01	02
STU	

01	VALVOLE DI CONTROLLO FLUSSO UNIDIREZIONALI (UNIDIRECTIONAL FLOW CONTROL VALVES)		STU
02	DIMENSIONE (SIZE) Tenuta a sfera solo per STU180/140/380/120 Ball sealing only for STU180/140/380/120	BSPP 1/8	180
		BSPP 1/4	140
		BSPP 3/8	380
		BSPP 1/2	120
		BSPP 3/4	340
		BSPP 1	100
		BSPP 1-1/4	114
		BSPP 1-1/2	112

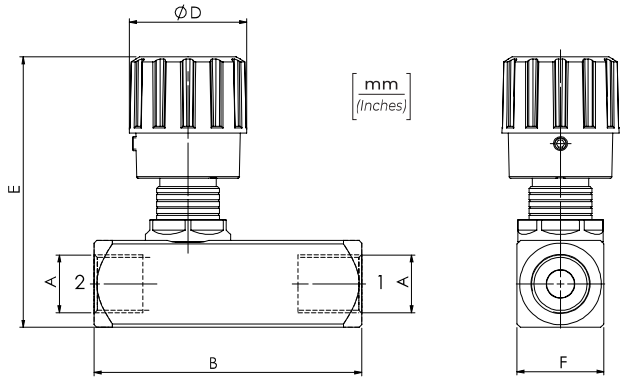
SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



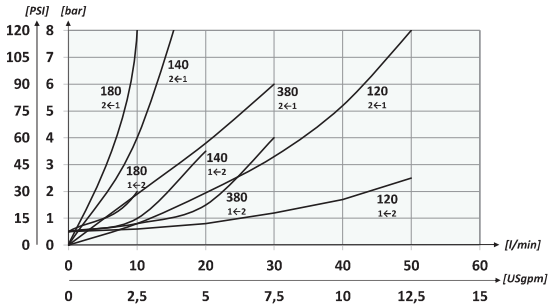
DATI TECNICI / TECHNICAL DATA

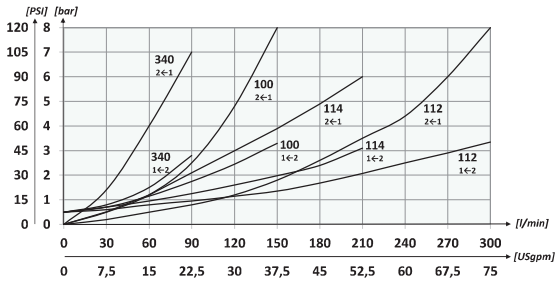
Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)	
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)	
Classe di contaminazione max Max contamination index	**ISO 4406:1999 Classe 19/17/14**	
Temperatura dell'olio - Oil temperature	**-20°C +80°C**	-4°F + 176°F
Temperatura ambiente - 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	D	E	F	PESO APPROX APPROX WEIGHT kg-lbt
STU180	**BSPP 1/8**	**10** (2.6)	**400** (5800)	**58** (2.28)	**20** (0.79)	**53** (2.09)	**20** (0.79)	**0,19** (0.42)
STU140	**BSPP 1/4**	**15** (4)		**66** (2.60)	**30** (1.18)	**71,5** (2.81)	**25** (0.98)	**0,34** (0.75)
STU380	**BSPP 3/8**	**30** (7.9)		**77** (3.03)				**0,36** (0.80)
STU120	**BSPP 1/2**	**50** (13.2)		**91** (3.58)	**33** (1.30)	**72** (2.83)	**30** (1.18)	**0,60** (1.3)
STU340	**BSPP 3/4**	**80** (21.1)		**112,5** (4.43)	**42** (1.65)	**94** (3.70)	**40** (1.57)	**1,33** (3)
STU100	**BSPP 1**	**150** (39.6)		**141** (5.55)		**99** (3.90)	**45** (1.77)	**1,83** (4.03)
STU114	**BSPP 1-1/4**	**200** (52.8)	**350** (5075)	**155** (6.10)	**53** (2.09)	**121,5** (4.78)	**55** (2.17)	**3,1** (6.8)
STU112	**BSPP 1-1/2**	**300** (79.2)		**168** (6.61)		**131,5** (5.18)	**65** (2.56)	**4,5** (10)

POMELLO IN ALLUMINIO PRESSOFUSO
DIE CAST ALUMINIUM HANDKNOB

BSPP	STUF140 - STUF380 - STUF120

POMELLO IN ALLUMINIO TORNITO
TURNED ALUMINIUM HANDKNOB

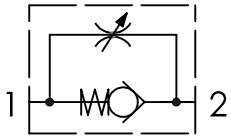
BSPP	STUF180 - STUF340 - STUF100 - STUF114 - STUF112

CODICE ORDINAZIONE / ORDERING CODE

01	02
STUF	

01	VALVOLE DI CONTROLLO FLUSSO UNIDIREZIONALI (UNIDIRECTIONAL FLOW CONTROL VALVES)		STUF
02	DIMENSIONE (SIZE) Tenuta a sfera solo per STU180/140/380/120 Ball sealing only for STU180/140/380/120	BSPP 1/8	180
		BSPP 1/4	140
		BSPP 3/8	380
		BSPP 1/2	120
		BSPP 3/4	340
		BSPP 1	100
		BSPP 1-1/4	114
		BSPP 1-1/2	112

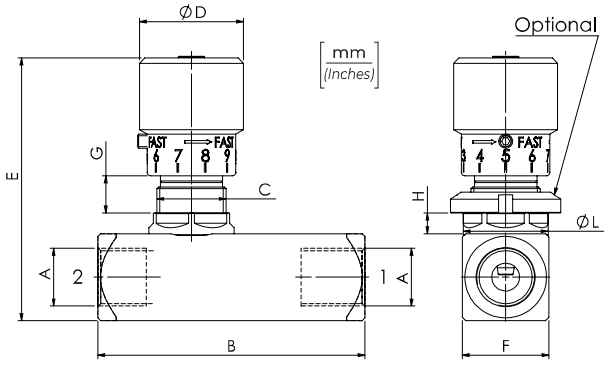
SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



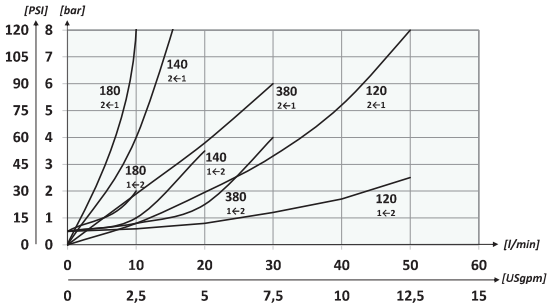
DATI TECNICI / TECHNICAL DATA

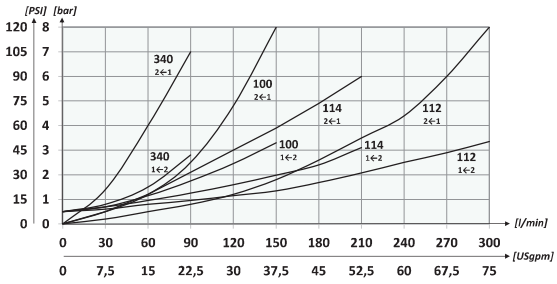
Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)	
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)	
Classe di contaminazione max Max contamination index	**ISO 4406:1999 Classe 19/17/14**	
Temperatura dell'olio - Oil temperature	**-20°C +80°C**	-4°F + 176°F
Temperatura ambiente - 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	L	OPTIONAL TYPE	PESO APPROX APPROX WEIGHT kg-lbt
STUF180	BSPP 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 (0.21)	19,5 (0.76)	84100031	0,20 (0.44)
STUF140	BSPP 1/4	15 (4)		66 (2.60)	M20x1	33 (1.30)	75 (2.95)	25 (0.98)	7,5 (0.29)	6 (0.23)	24,5 (0.96)	84100022	0,38 (0.84)
STUF380	BSPP 3/8	30 (7.9)		77 (3.03)									0,40 (0.88)
STUF120	BSPP 1/2	50 (13.2)		91 (3.58)	M25x1,5		81 (3.19)	30 (1.18)	9 (0.35)	7 (0.27)	29,5 (1.16)	84100023	0,63 (1.40)
STUF340	BSPP 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 (1.55)	84100024	1,45 (3.2)
STUF100	BSPP 1	150 (39.6)		141 (5.55)			115 (4.53)	45 (1.77)					2 (4.4)
STUF114	BSPP 1-1/4	200 (52.8)	350 (5075)	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	BSPP 1-1/2	300 (79.2)		168 (6.61)			147 (5.79)	65 (2.56)					4,7 (10.3)

POMELLO IN ALLUMINIO PRESSOFUSO
DIE CAST ALUMINIUM HANDKNOB

NPTF	STU140N - STU380N - STU120N

POMELLO IN ALLUMINIO TORNITO
TURNED ALUMINIUM HANDKNOB

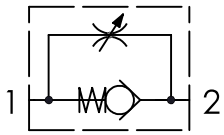
NPTF	STU180N - STU340N - STU100N - STU114N - STU112N

CODICE ORDINAZIONE / ORDERING CODE

01	02
STU	

01	VALVOLE DI CONTROLLO FLUSSO UNIDIREZIONALI (UNIDIRECTIONAL FLOW CONTROL VALVES)		**STU**
02	DIMENSIONE (SIZE)	NPTF 1/8	**180N**
		NPTF 1/4	**140N**
		NPTF 3/8	**380N**
		NPTF 1/2	**120N**
		NPTF 3/4	**340N**
		NPTF 1	**100N**
		NPTF 1-1/4	**114N**
		NPTF 1-1/2	**112N**

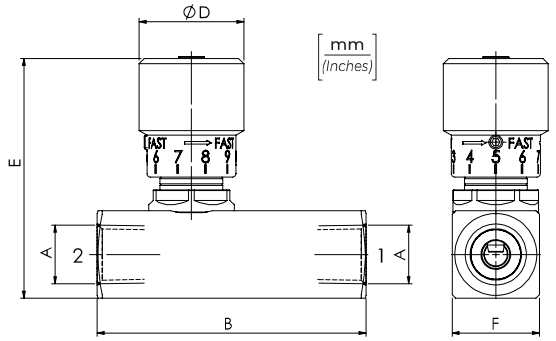
SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



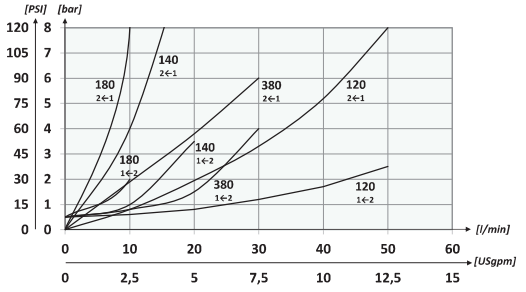
DATI TECNICI / TECHNICAL DATA

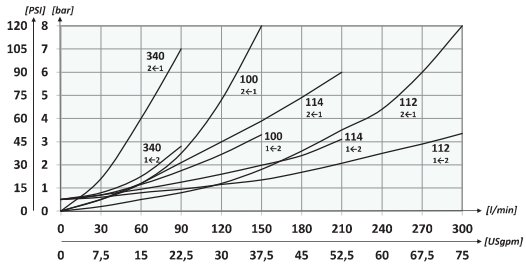
Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)	
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)	
Classe di contaminazione max Max contamination index	**ISO 4406:1999 Classe 19/17/14**	
Temperatura dell'olio - Oil temperature	**-20°C +80°C**	-4°F + 176°F
Temperatura ambiente - 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 (l/min) MAX FLOW (USgpm)	PRESSIONE MAX (bar) MAX PRESSURE (PSI)	B	D	E	F	PESO APPROX (kg) APPROX WEIGHT (lbt)
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)	**33** (1.30)	**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)		**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)

POMELLO IN ALLUMINIO PRESSOFUSO
DIE CAST ALUMINIUM HANDKNOB

NPTF	STUF140N - STUF380N - STUF120N

POMELLO IN ALLUMINIO TORNITO
TURNED ALUMINIUM HANDKNOB

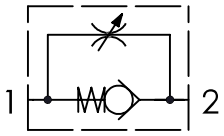
NPTF	STUF180N - STUF340N - STUF100N - STUF114N - STUF112N

CODICE ORDINAZIONE / ORDERING CODE

01	02
STUF	

01	VALVOLE DI CONTROLLO FLUSSO UNIDIREZIONALI (UNIDIRECTIONAL FLOW CONTROL VALVES)		STUF
02	DIMENSIONE (SIZE)	NPTF 1/8	180N
		NPTF 1/4	140N
		NPTF 3/8	380N
		NPTF 1/2	120N
		NPTF 3/4	340N
		NPTF 1	100N
		NPTF 1-1/4	114N
		NPTF 1-1/2	112N

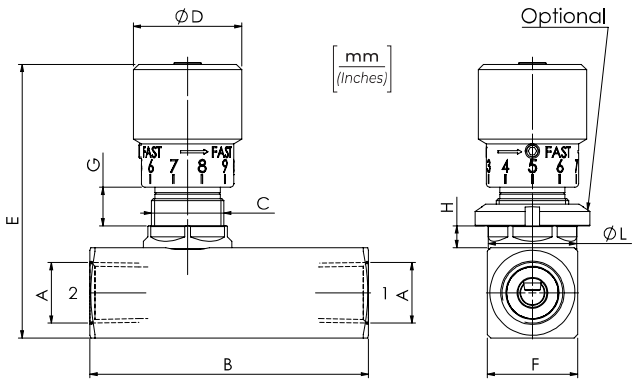
SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



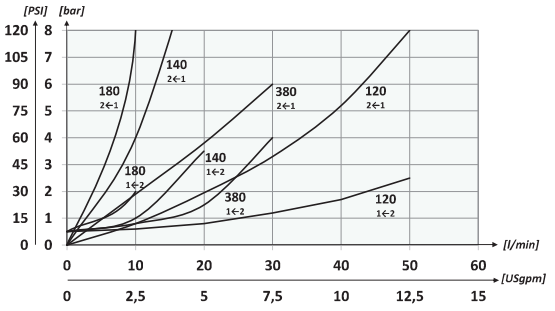
DATI TECNICI / TECHNICAL DATA

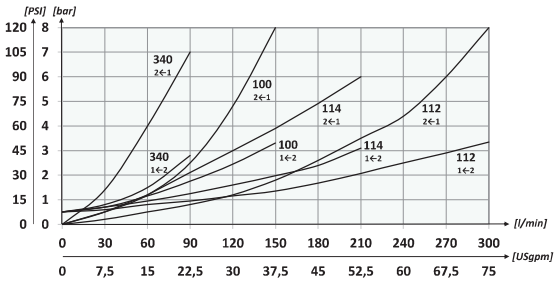
Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)	
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)	
Classe di contaminazione max Max contamination index	**ISO 4406:1999 Classe 19/17/14**	
Temperatura dell'olio - Oil temperature	**-20°C +80°C**	-4°F + 176°F
Temperatura ambiente - 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	L	OPTIONAL TYPE	PESO APPROX APPROX WEIGHT kg-lbt
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	33 (1.30)	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		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)		141 (5.55)			115 (4.53)	45 (1.77)					2 (4.4)
STUF114N	NPTF 1-1/4	200 (52.8)	350 (5075)	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)

POMELLO IN ALLUMINIO PRESSOFUSO
DIE CAST ALUMINIUM HANDKNOB

SAE	STUF4 - STUF6 - STUF8

POMELLO IN ALLUMINIO TORNITO
TURNED ALUMINIUM HANDKNOB

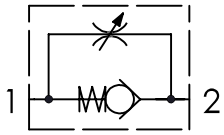
SAE	STU4S - STUF12 STUF16 - STUF20 - STUF24

CODICE ORDINAZIONE
ORDERING CODE

01	02
STU	

01	VALVOLE DI CONTROLLO FLUSSO UNIDIREZIONALI (UNIDIRECTIONAL FLOW CONTROL VALVES)		**STU**
02	DIMENSIONE (SIZE)	7/16-20UNF Small	**4S**
		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**

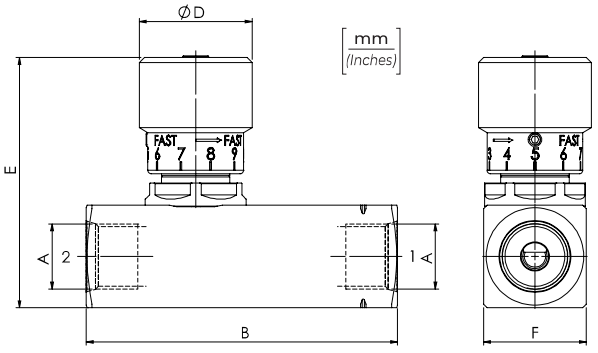
SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



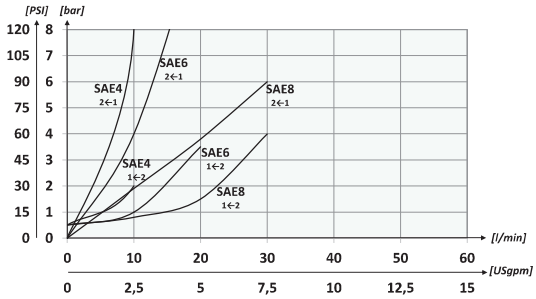
DATI TECNICI / TECHNICAL DATA

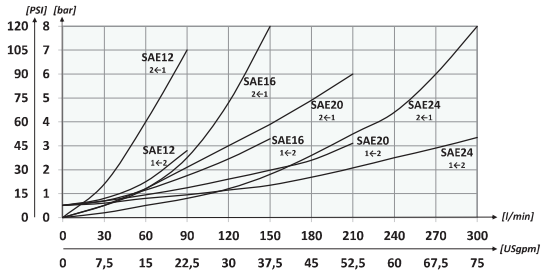
Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)
Classe di contaminazione max Max contamination index	**ISO 4406:1999 Classe 19/17/14**
Temperatura dell'olio - Oil temperature	**-20°C +80°C** -4°F + 176°F
Temperatura ambiente - Environment 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 (l/min) MAX FLOW (USgpm)	PRESSIONE MAX (bar) MAX PRESSURE (PSI)	B	D	E	F	PESO APPROX (kg) APPROX WEIGHT (lbt)
STU4S	7/16-20UNF	10 (2.6)	400 (5800)	66 (2.60)	33 (1.30)	68 (2.68)	20 (0.79)	0,21 (0.46)
STU4							25 (0.98)	0,39 (0.85)
STU6	9/16-18UNF	15 (4)		70,5 (2.78)				0,40 (0.9)
STU8	3/4-16UNF	30 (7.9)		91 (3.58)		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)		141 (5.55)		99 (3.90)	45 (1.77)	1,87 (4.11)
STU20	1-5/8-12UN	200 (52.8)	350 (5075)	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)

POMELLO IN ALLUMINIO PRESSOFUSO
DIE CAST ALUMINIUM HANDKNOB

SAE	STUF4 - STUF6 - STUF8

POMELLO IN ALLUMINIO TORNITO
TURNED ALUMINIUM HANDKNOB

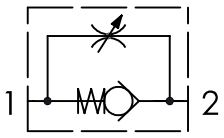
SAE	STUF4S - STUF12 STUF16 - STUF20 - STUF24

CODICE ORDINAZIONE / ORDERING CODE

01	02
STUF	

01	VALVOLE DI CONTROLLO FLUSSO UNIDIREZIONALI (UNIDIRECTIONAL FLOW CONTROL VALVES)		STUF
02	DIMENSIONE (SIZE)	7/16-20UNF Small	4S
		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

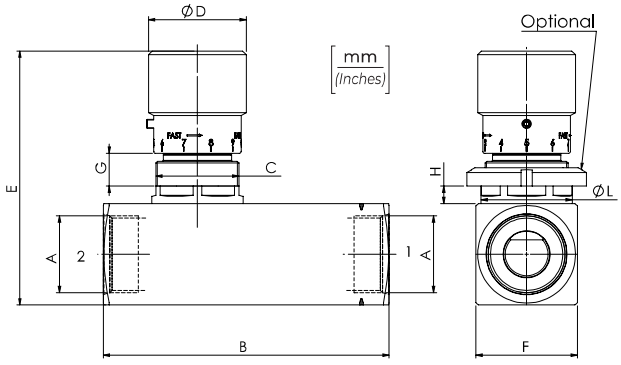
SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



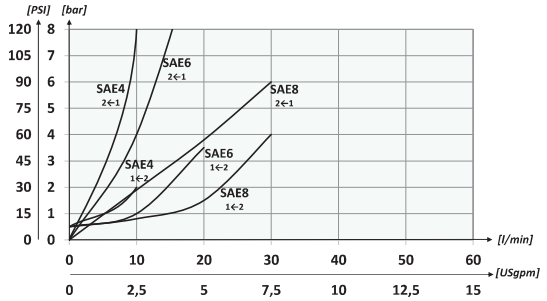
DATI TECNICI / TECHNICAL DATA

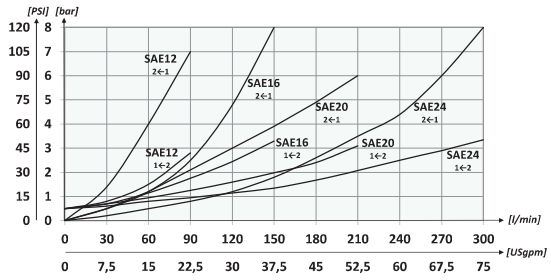
Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)	
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)	
Classe di contaminazione max Max contamination index	**ISO 4406:1999 Classe 19/17/14**	
Temperatura dell'olio - Oil temperature	**-20°C +80°C**	-4°F + 176°F
Temperatura ambiente - 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	L	OPTIONAL TYPE	PESO APPROX APPROX WEIGHT kg-lbt
STUF4S	7/16-20UNF	10 (2.6)	400 (5800)	66 (2.60)	M20x1	33 (1.30)	75 (2.95)	20 (0.79)	7,5 (0.30)	6 (0.24)	24,5 (0.96)	84100022	0,22 (0.48)
STUF4								25 (0.98)					0,41 (0.90)
STUF6	9/16-18UNF	15 (4)		70,5 (2.78)									0,42 (0.92)
STUF8	3/4-16UNF	30 (7.9)		91 (3.58)	M25x1,5		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)		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)			115 (4.53)	45 (1.77)					2 (4.4)
STUF20	1-5/8-12UN	200 (52.8)	350 (5075)	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)			147 (5.79)	65 (2.56)					4,7 (10.3)

CODICE ORDINAZIONE
ORDERING CODE

01	02
STB	

01	VALVOLE DI CONTROLLO FLUSSO BIDIREZIONALI (BIDIRECTIONAL FLOW CONTROL VALVES)		**STB**
02	DIMENSIONE (SIZE)	BSPP 1/8	**180**
		BSPP 1/4	**140**
		BSPP 3/8	**380**
		BSPP 1/2	**120**
		BSPP 3/4	**340**
		BSPP 1	**100**
		BSPP 1-1/4	**114**
		BSPP 1-1/2	**112**

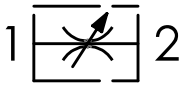
POMELLO IN ALLUMINIO PRESSOFUSO
DIE CAST ALUMINIUM HANDKNOB

BSPP	**STB140 - STB380 - STB120**

POMELLO IN ALLUMINIO TORNITO
TURNED ALUMINIUM HANDKNOB

BSPP	**STB180 - STB340 - STB100 - STB114 - STB112**

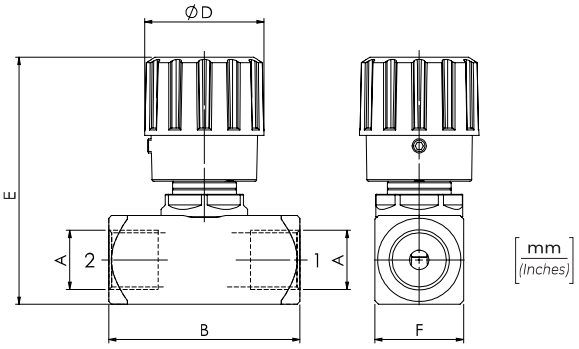
SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



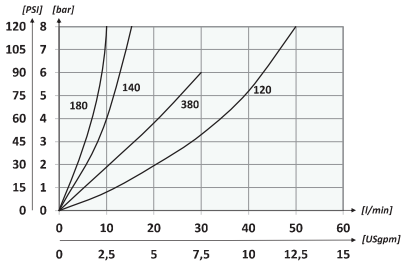
DATI TECNICI / TECHNICAL DATA

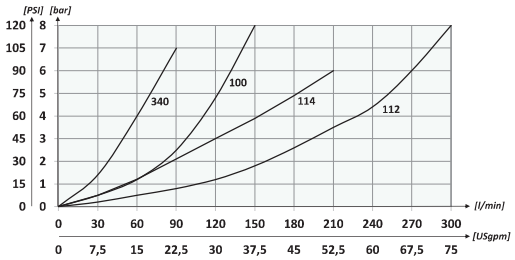
Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)	
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)	
Classe di contaminazione max Max contamination index	**ISO 4406:1999 Classe 19/17/14**	
Temperatura dell'olio - Oil temperature	**-20°C +80°C**	-4°F + 176°F
Temperatura ambiente - 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 (l/min) MAX FLOW (USgpm)	PRESSIONE MAX (bar) MAX PRESSURE (PSI)	B	D	E	F	PESO APPROX (kg) APPROX WEIGHT (lbt)
STB180	**BSPP 1/8**	**10** (2.6)	**400** (5800)	**44** (1.73)	**20** (0.79)	**53** (2.09)	**20** (0.79)	**0,15** (0.33)
STB140	**BSPP 1/4**	**15** (4)		**54** (2.13)	**33** (1.30)	**71,5** (2.81)	**25** (0.98)	**0,29** (0.70)
STB380	**BSPP 3/8**	**30** (7.9)						**0,26** (0.57)
STB120	**BSPP 1/2**	**50** (13.2)		**64** (2.52)		**72** (2.83)	**30** (1.18)	**0,45** (1)
STB340	**BSPP 3/4**	**80** (21.1)		**81** (3.19)	**42** (1.65)	**94** (3.70)	**40** (1.57)	**1,02** (2.25)
STB100	**BSPP 1**	**150** (39.6)		**102** (4.01)		**99** (3.90)	**45** (1.77)	**1,38** (3.04)
STB114	**BSPP 1-1/4**	**200** (52.8)	**350** (5075)		**53** (2.09)	**121,5** (4.78)	**55** (2.17)	**2,2** (4.8)
STB112	**BSPP 1-1/2**	**300** (79.2)				**131,5** (5.18)	**65** (2.56)	**3** (6.6)

POMELLO IN ALLUMINIO PRESSOFUSO
DIE CAST ALUMINIUM HANDKNOB

BSPP	STBF140 - STBF380 - STBF120

POMELLO IN ALLUMINIO TORNITO
TURNED ALUMINIUM HANDKNOB

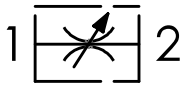
BSPP	STBF180 - STBF340 - STBF100 - STBF114 - STBF112

CODICE ORDINAZIONE / ORDERING CODE

01	02
STBF	

01	VALVOLE DI CONTROLLO FLUSSO BIDIREZIONALI (BIDIRECTIONAL FLOW CONTROL VALVES)		STBF
02	DIMENSIONE (SIZE)	BSPP 1/8	180
		BSPP 1/4	140
		BSPP 3/8	380
		BSPP 1/2	120
		BSPP 3/4	340
		BSPP 1	100
		BSPP 1-1/4	114
		BSPP 1-1/2	112

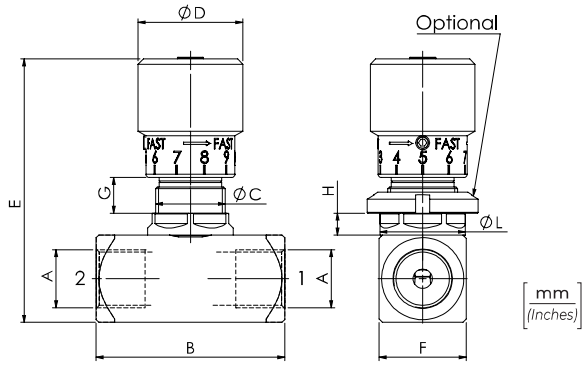
SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



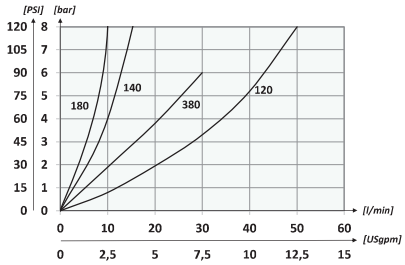
DATI TECNICI / TECHNICAL DATA

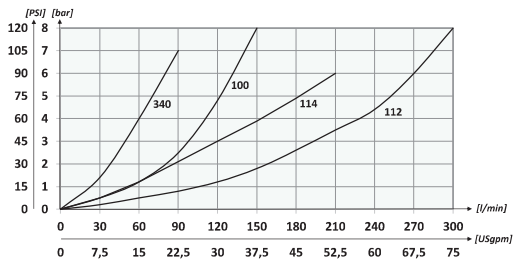
Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)	
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)	
Classe di contaminazione max Max contamination index	**ISO 4406:1999 Classe 19/17/14**	
Temperatura dell'olio - Oil temperature	**-20°C +80°C**	-4°F + 176°F
Temperatura ambiente - 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 (l/min) MAX FLOW (USgpm)	PRESSIONE MAX (bar) MAX PRESSURE (PSI)	B	C	D	E	F	G	H	L	OPTIONAL TYPE	PESO APPROX (kg) APPROX WEIGHT (lbt)
STBF180	BSPP 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)
STBF140	BSPP 1/4	15 (4)		54 (2.13)	M20x1	33 (1.30)	75 (2.95)	25 (0.98)	7,5 (0.30)	6 (0.24)	24,5 (0.96)	84100022	0,31 (0.68)
STBF380	BSPP 3/8	30 (7.9)											0,28 (0.62)
STBF120	BSPP 1/2	50 (13.2)		64 (2.52)	M25x1,5		81 (3.19)	30 (1.18)	9 (0.35)	7 (0.28)	29,5 (1.16)	84100023	0,48 (1.06)
STBF340	BSPP 3/4	80 (21.1)		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	1,13 (2.50)
STBF100	BSPP 1	150 (39.6)		102 (4.01)			115 (4.53)	45 (1.77)					1,50 (3.3)
STBF114	BSPP 1-1/4	200 (52.8)	350 (5075)		M45x1,5	53 (2.09)	137 (5.39)	55 (2.17)	13,5 (0.53)	10 (0.39)	50 (1.97)	84100030	2,37 (5.21)
STBF112	BSPP 1-1/2	300 (79.2)					147 (5.79)	65 (2.56)					3,17 (7)

CODICE ORDINAZIONE / ORDERING CODE

01	02
STB	

01	VALVOLE DI CONTROLLO FLUSSO BIDIREZIONALI (BIDIRECTIONAL FLOW CONTROL VALVES)		STB
02	DIMENSIONE (SIZE)	NPTF 1/8	180N
		NPTF 1/4	140N
		NPTF 3/8	380N
		NPTF 1/2	120N
		NPTF 3/4	340N
		NPTF 1	100N
		NPTF 1-1/4	114N
		NPTF 1-1/2	112N

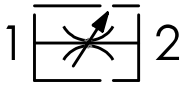
POMELLO IN ALLUMINIO PRESSOFUSO
DIE CAST ALUMINIUM HANDKNOB

NPTF	STB140N - STB380N - STB120N

POMELLO IN ALLUMINIO TORNITO
TURNED ALUMINIUM HANDKNOB

NPTF	STB180N - STB340N - STB100N - STB114N - STB112N

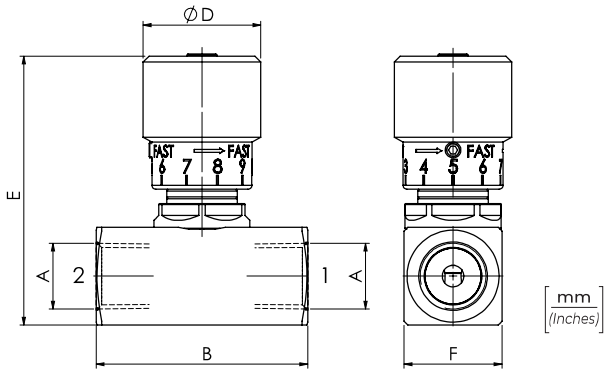
SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



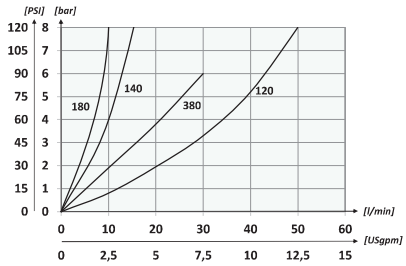
DATI TECNICI / TECHNICAL DATA

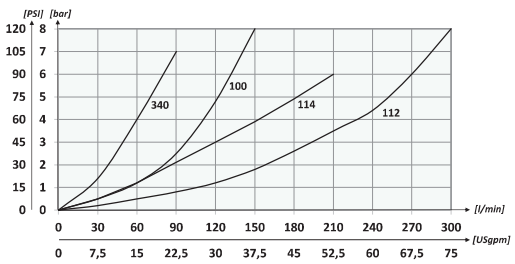
Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)	
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)	
Classe di contaminazione max Max contamination index	**ISO 4406:1999 Classe 19/17/14**	
Temperatura dell'olio - Oil temperature	**-20°C +80°C**	-4°F + 176°F
Temperatura ambiente - 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 (l/min) MAX FLOW (USgpm)	PRESSIONE MAX (bar) MAX PRESSURE (PSI)	B	D	E	F	PESO APPROX (kg) APPROX WEIGHT (lbt)
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)	**33** (1.30)	**68** (2.68)	**25** (0.98)	**0,32** (0.71)
STB380N	**NPTF 3/8**	**30** (7.9)						**0,30** (0.66)
STB120N	**NPTF 1/2**	**50** (13.2)		**64** (2.52)		**72** (2.83)	**30** (1.18)	**0,47** (1.03)
STB340N	**NPTF 3/4**	**80** (21.1)		**81** (3.19)	**42** (1.65)	**94** (3.70)	**40** (1.57)	**1,05** (2.31)
STB100N	**NPTF 1**	**150** (39.6)		**102** (4.02)		**99** (3.90)	**45** (1.77)	**1,49** (3.95)
STB114N	**NPTF 1-1/4**	**200** (52.8)	**350** (5075)		**53** (2.09)	**121,5** (4.78)	**55** (2.16)	**2,27** (5.21)
STB112N	**NPTF 1-1/2**	**300** (79.2)				**131,5** (5.18)	**65** (2.56)	**3** (6.6)

POMELLO IN ALLUMINIO PRESSOFUSO
DIE CAST ALUMINIUM HANDKNOB

NPTF	STBF140N - STBF380N - STBF120N

POMELLO IN ALLUMINIO TORNITO
TURNED ALUMINIUM HANDKNOB

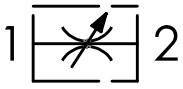
NPTF	STBF180N - STBF340N - STBF100N - STBF114N - STBF112N

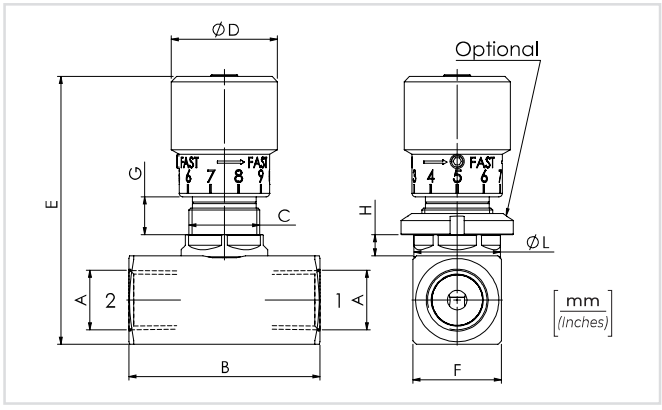
CODICE ORDINAZIONE
ORDERING CODE

01	02
STBF	

01	VALVOLE DI CONTROLLO FLUSSO BIDIREZIONALI (BIDIRECTIONAL FLOW CONTROL VALVES)		STBF
02	DIMENSIONE (SIZE)	NPTF 1/8	180N
		NPTF 1/4	140N
		NPTF 3/8	380N
		NPTF 1/2	120N
		NPTF 3/4	340N
		NPTF 1	100N
		NPTF 1-1/4	114N
		NPTF 1-1/2	112N

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



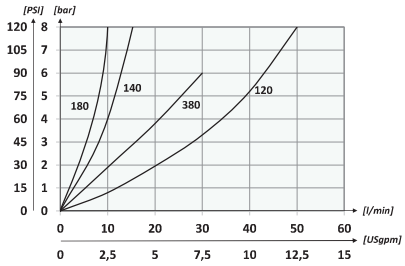


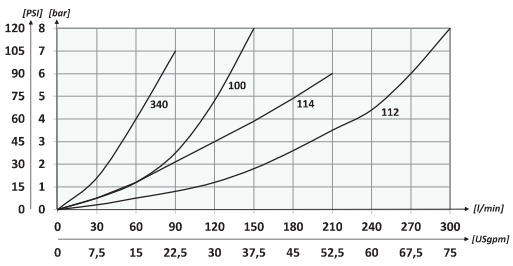
DATI TECNICI / TECHNICAL DATA

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 Max contamination index	**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	PRESSIONE MAX (bar) MAX PRESSURE (PSI)	PRESSIONE MAX (bar) MAX PRESSURE (PSI)	B	C	D	E	F	G	H	L	OPTIONAL TYPE	PESO APPROX (kg) APPROX WEIGHT (lbt)
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	33 (1.30)	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)											0,32 (0.71)
STBF120N	NPTF 1/2	50 (13.2)		64 (2.52)	M25x1,5		81 (3.19)	30 (1.18)	9 (0.35)	7 (0.28)	29,5 (1.16)	84100023	0,50 (1.1)
STBF340N	NPTF 3/4	80 (21.1)		81 (3.19)	M35x1,5	42 (1.65)	110 (4.33)	40 (1.57)	15,5 (0.61)	8 (0.31)	39,5 (1.55)	84100024	1,15 (2.53)
STBF100N	NPTF 1	150 (39.6)		102 (4.01)			115 (4.53)	45 (1.77)					1,49 (3.30)
STBF114N	NPTF 1-1/4	200 (52.8)	350 (5075)		M45x1,5	53 (2.09)	137 (5.39)	55 (2.17)	13,5 (0.53)	10 (0.39)	50 (1.96)	84100030	2,54 (5.6)
STBF112N	NPTF 1-1/2	300 (79.2)					147 (5.78)	65 (2.56)					3,17 (7)

POMELLO IN ALLUMINIO PRESSOFUSO
DIE CAST ALUMINIUM HANDKNOB

SAE	STB4 - STB6 - STB8

POMELLO IN ALLUMINIO TORNITO
TURNED ALUMINIUM HANDKNOB

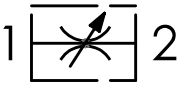
SAE	STB4S - STB12 - STB16 STB20 - STB24

CODICE ORDINAZIONE
ORDERING CODE

01	02
STB	

01	VALVOLE DI CONTROLLO FLUSSO BIDIREZIONALI (BIDIRECTIONAL FLOW CONTROL VALVES)		**STB**
02	DIMENSIONE (SIZE)	7/16-20UNF Small	**4S**
		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**

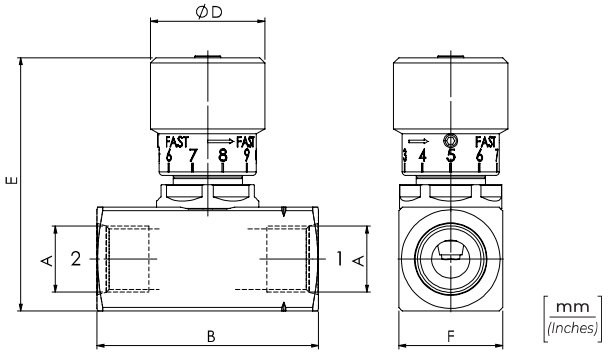
SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



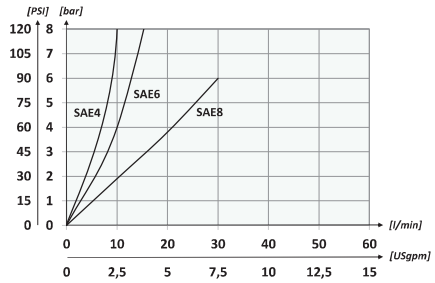
DATI TECNICI / TECHNICAL DATA

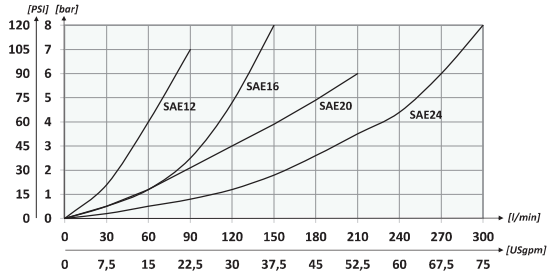
Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)	
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)	
Classe di contaminazione max Max contamination index	**ISO 4406:1999 Classe 19/17/14**	
Temperatura dell'olio - Oil temperature	**-20°C +80°C**	-4°F + 176°F
Temperatura ambiente - 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 (l/min) MAX FLOW (USgpm)	PRESSIONE MAX (bar) MAX PRESSURE (PSI)	B	D	E	F	PESO APPROX (kg) APPROX WEIGHT (lbt)
STB4S	**7/16-20UNF**	**10** (2.6)	**400** (5800)	**54** (2.13)	**33** (1.30)	**68** (2.68)	**20** (0.79)	**0,21** (0.46)
STB4							**25** (0.98)	**0,32** (0.71)
STB6	**9/16-18UNF**	**15** (4)						**0,30** (0.66)
STB8	**3/4-16UNF**	**30** (7.9)		**64** (2.52)		**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)	**350** (5075)		**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)

CODICE ORDINAZIONE / ORDERING CODE

01	02
STBF	

01	VALVOLE DI CONTROLLO FLUSSO BIDIREZIONALI (BIDIRECTIONAL FLOW CONTROL VALVES)		STBF
02	DIMENSIONE (SIZE)	7/16-20UNF Small	4S
		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

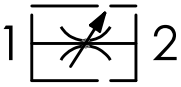
POMELLO IN ALLUMINIO PRESSOFUSO
DIE CAST ALUMINIUM HANDKNOB

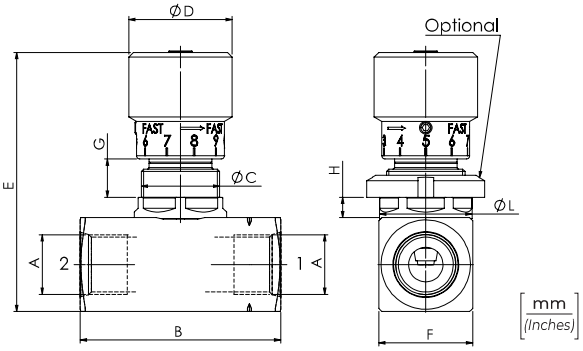
SAE	STBF4 - STBF6 - STBF8

POMELLO IN ALLUMINIO TORNITO
TURNED ALUMINIUM HANDKNOB

SAE	STBF4S STBF12 - STBF16 STBF20 - STBF24

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



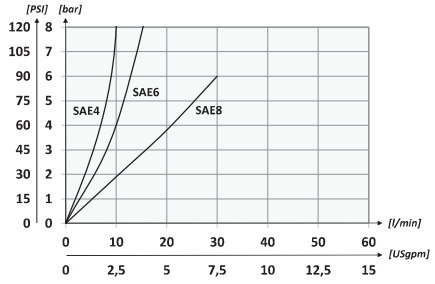


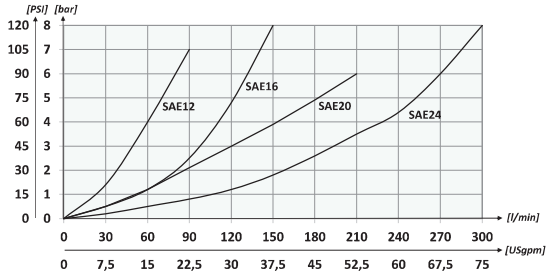
DATI TECNICI / TECHNICAL DATA

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 Max contamination index	**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

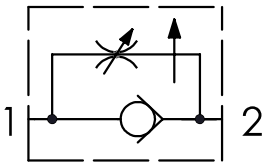
TIPO TYPE	A	PRESSIONE MAX MAX PRESSURE bar-PSI	PRESSIONE MAX MAX PRESSURE bar-PSI	B	C	D	E	F	G	H	L	OPTIONAL TYPE	PESO APPROX (kg) APPROX WEIGHT (lbt)
STBF4S	7/16-20UNF	10 (2.6)	400 (5800)	54 (2.13)	M20x1	33 (1.30)	75 (2.95)	20 (0.79)	7,5 (0.29)	6 (0.24)	24,5 (0.96)	84100022	0,22 (0.48)
STBF4								25 (0.98)					0,34 (0.75)
STBF6	9/16-18UNF	15 (4)											0,32 (0.71)
STBF8	3/4-16UNF	30 (7.9)		64 (2.52)	M25x1,5		81 (3.19)	30 (1.18)	9 (0.35)	7 (0.28)	29,5 (1.16)	84100023	0,48 (1.05)
STBF12	1-1/16-12UN	80 (21.1)		81 (3.19)	M35x1,5	42 (1.65)	110 (4.33)	40 (1.57)	15,5 (0.61)	8 (0.31)	39,5 (1.55)	84100024	1,1 (2.42)
STBF16	1-5/16-12UN	150 (39.6)		102 (4.02)			115 (4.53)	45 (1.77)					1,45 (3.2)
STBF20	1-5/8-12UN	200 (52.8)	350 (5075)		M45x1,5	53 (2.09)	137 (5.39)	55 (2.17)	13,5 (0.53)	10 (0.39)	50 (1.96)	84100030	2,45 (5.39)
STBF24	1-7/8-12UN	300 (79.2)					147 (5.78)	65 (2.56)					3,17 (7)

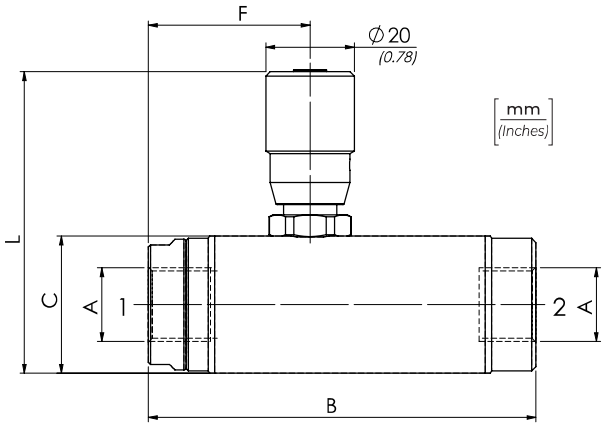
CODICE ORDINAZIONE / ORDERING CODE

01	02
VRC	

01	VALVOLE DI CONTROLLO FLUSSO 2 VIE COMPENSATE (2 WAYS FLOW CONTROL VALVES - PRESSURE COMPENSATED)		**VRC**
02	DIMENSIONE (SIZE)	BSPP 1/4	**140**
		BSPP 3/8	**380**
		BSPP 1/2	**120**

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



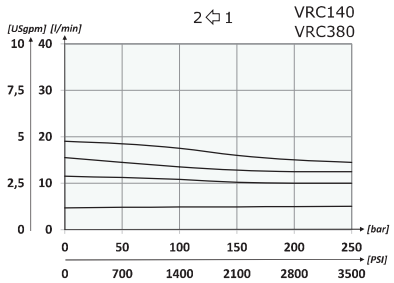


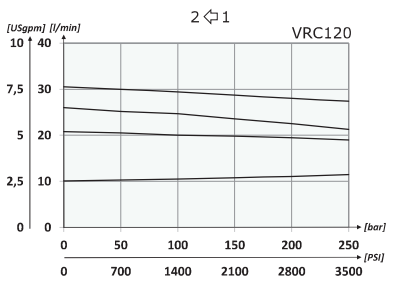
DATI TECNICI / TECHNICAL DATA

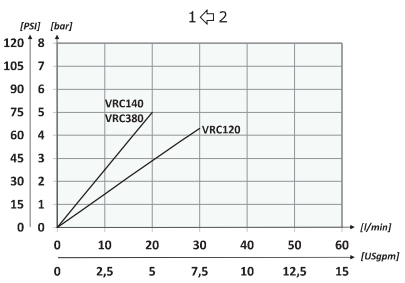
Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)	
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)	
Classe di contaminazione max Max contamination index	**ISO 4406:1999 Classe 19/17/14**	
Temperatura dell'olio - Oil temperature	**-20°C +80°C**	-4°F + 176°F
Temperatura ambiente -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

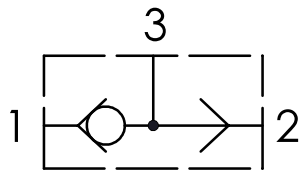
TIPO TYPE	A	PORTATA MAX (l/min) MAX FLOW (USgpm)	PRESSIONE MAX (bar) MAX PRESSURE (PSI)	B	C	F	L	PESO APPROX (kg) APPROX WEIGHT (lbt)
VRC140	**BSPP 1/4**	**10** (2.6)	**250** (3625)	**87,5** (3.44)	**31** (1.22)	**36,5** (1,44)	**68** (2.68)	**0,51** (1.12)
VRC380	**BSPP 3/8**	**18** (4.8)						**0,50** (1.10)
VRC120	**BSPP 1/2**	**33** (8.7)		**107,5** (4.31)	**36** (1.42)	**46** (1.81)	**73** (2.87)	**0,76** (1.67)

CODICE ORDINAZIONE
ORDERING CODE

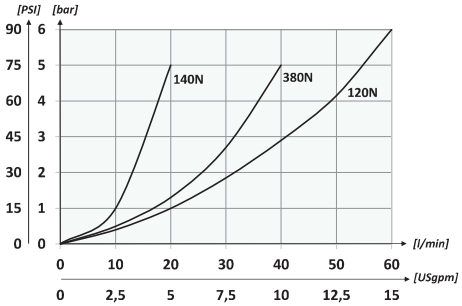
01	02
VUSF	

01	VALVOLE SELETTRICI (LOAD SHUTTLE VALVES)		**VUSF**
02	DIMENSIONE (SIZE)	BSPP 1/4	**140N**
		BSPP 3/8	**380N**
		BSPP 1/2	**120N**

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



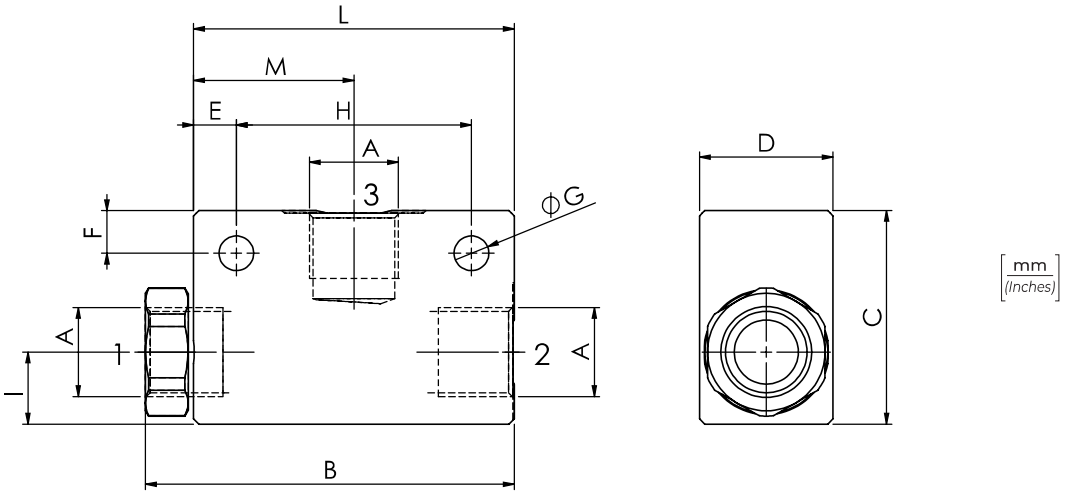
PERFORMANCES



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 Max contamination index	**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

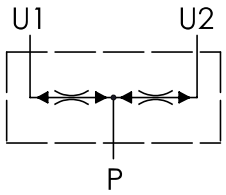
È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)



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	PESO APPROX APPROX WEIGHT kg-lbt
VUSF140N	**BSPP 1/4**	**20** (5.3)	**350** (5075)	**57,3** (2.26)	**35** (1.38)	**25** (0.98)	**9** (0.35)	**8** (0.31)	**6,5** (0.26)	**34** (1.34)	**12** (0.47)	**52** (2.05)	**0,29** (0.65)
VUSF380N	**BSPP 3/8**	**40** (10.6)		**69** (2.72)	**40** (1.57)		**8** (0.31)			**44** (1.73)	**13,5** (0.53)	**60** (2.36)	**0,37** (0.81)
VUSF120N	**BSPP 1/2**	**60** (15.8)		**73,8** (2.90)	**50** (1.97)	**35** (1.38)	**10** (0.39)	**10** (0.39)	**8,5** (0.33)	**45** (1.79)	**18** (0.71)	**65** (2.56)	**0,71** (1.56)

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



CODICE ORDINAZIONE / ORDERING CODE

01	02	03	04
DRF10			

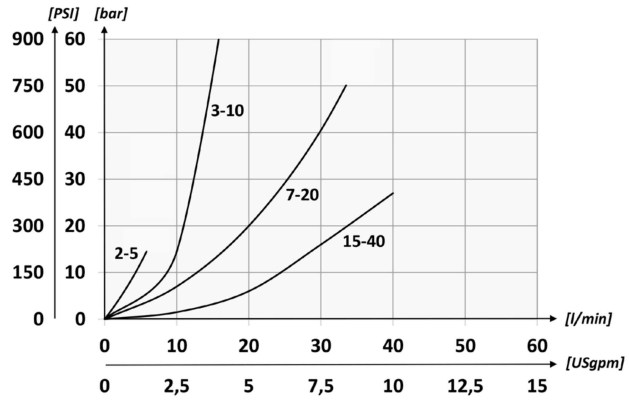
01	VALVOLA DIVISORE/RIUNIFICATORE DI FLUSSO (FLOW DIVIDER/COMBINER VALVES)		**DRF10**
02	CAMPO DI PORTATA IN INGRESSO (L/MIN) INLET FLOW RANGE (USGPM)	**2-5** (0.5-1.3)	**1**
		3-10 (0.8-2.6)	**2**
		7-20 (1.8-5.2)	**3**
		15-40 (3.9-10.4)	**4**
03	CONNESSIONE P (PORT P)	BSPP 3/8	**380**
		BSPP 1/2	**120**
04	CONNESSIONE U1/U2 (PORT U1/U2)	BSPP 3/8	**380**
		BSPP 1/2	**120**

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 Max contamination index	**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

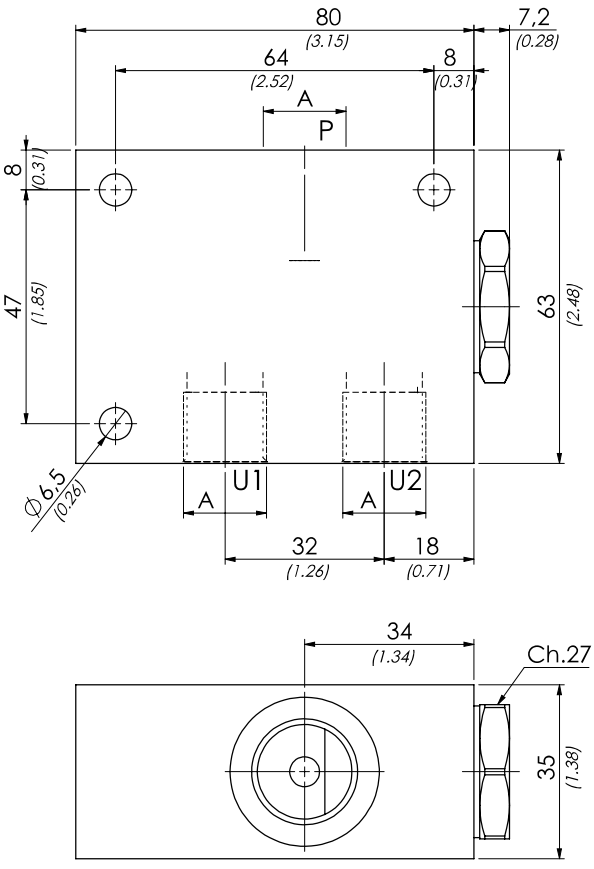
È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)

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

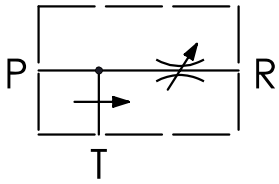
01	02	03
VPT		V

01	REGOLATORI DI FLUSSO 3 VIE - COMPENSATI, CON ECCEDENZA 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

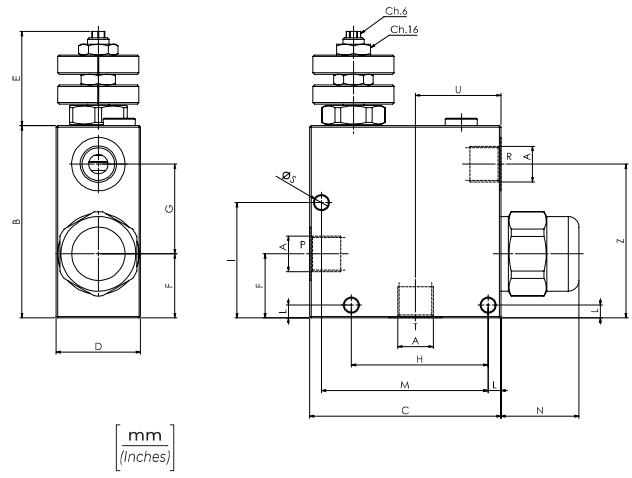
SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



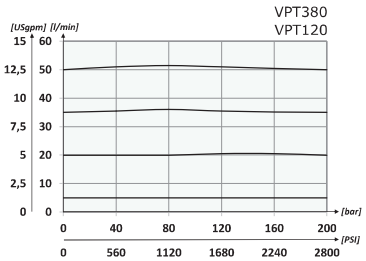
DATI TECNICI / TECHNICAL DATA

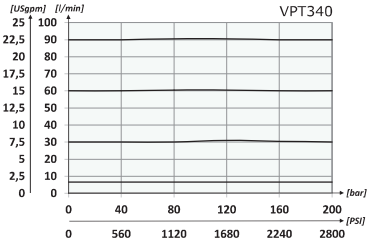
Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)	
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)	
Classe di contaminazione max Max contamination index	**ISO 4406:1999 Classe 19/17/14**	
Temperatura dell'olio - Oil temperature	**-20°C +80°C**	-4°F + 176°F
Temperatura ambiente -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

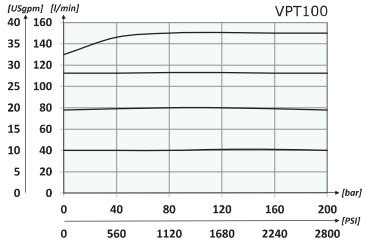
È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)



PERFORMANCES







CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

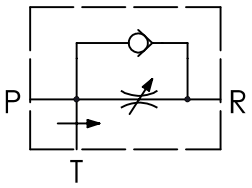
TIPO TYPE	A	PORTATA MAX MAX FLOW l/min-USgpm	PRESSIONE MAX MAX PRESSURE bar-PSI	B	C	D	E	F	G	H	I	L	M	N	S	U	Z	PESO APPROX (kg) APPROX WEIGHT (lbt)
VPT380	BSPP 3/8	50 (13.2)	250 (3625)	90 (3.54)	89,5 (35.24)	39,5 (15.55)	47,5 (1.87)	30 (1.18)	42 (1.65)	64 (2.52)	54 (2.13)	6 (0.24)	78 (3.07)	36,5 (1.44)	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	04
VPT		V	AR

01	REGOLATORI DI FLUSSO 3 VIE - COMPENSATI, CON ECCEDENZA 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 valve for free reverse flow)		AR

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



PORTATA MASSIMA L/MIN - MAX FLOW USGPM

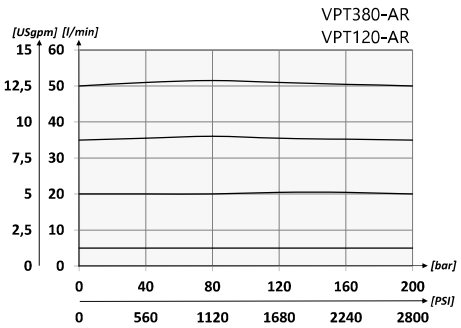
50 L/MIN CON 30 L/MIN IN R (13,3 USGPM WITH 8 USGPM IN R)	380
80 L/MIN CON 50 L/MIN IN R (21,3 USGPM WITH 13,3 USGPM IN R)	120

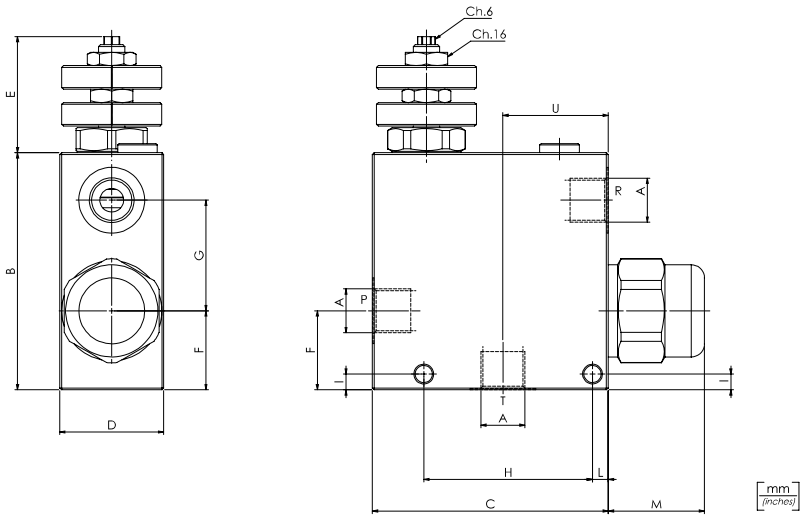
DATI TECNICI / TECHNICAL DATA

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 Max contamination index	**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

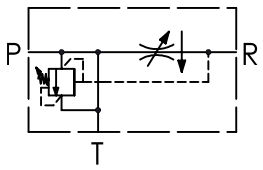




CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

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



CODICE ORDINAZIONE / ORDERING CODE

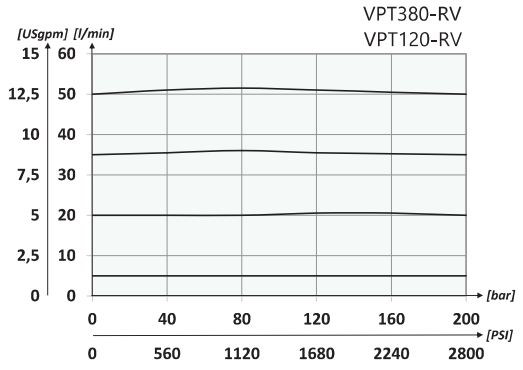
01	02	03	04
VPT		V	RV

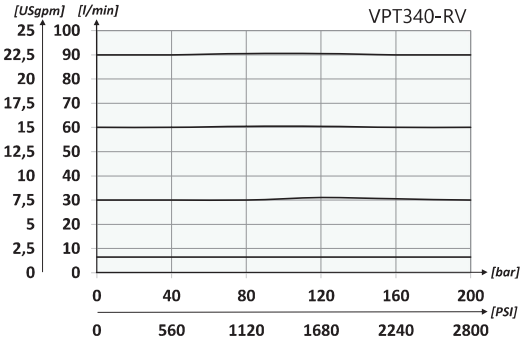
01	REGOLATORI DI FLUSSO 3 VIE - COMPENSATI, CON ECCEDENZA IN SCARICO (3 WAYS FLOW CONTROL VALVES - PRESSURE COMPENSATED, EXCEEDING FLOW TO TANK AND RELIEF VALVE)		VPT
02	DIMENSIONE (SIZE)	BSPP 3/8	380
		BSPP 1/2	120
		BSPP 3/4	340
03	REGOLAZIONE (SETTING)	Volantino (Hand wheel)	V
04	Valvola di massima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

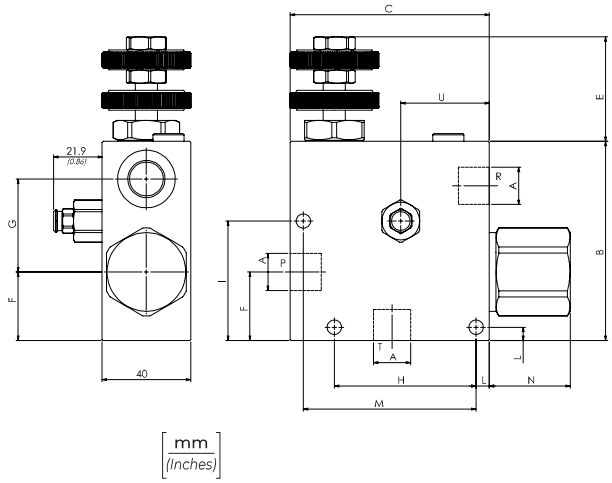
PORTATA MASSIMA L/MIN - MAX FLOW USGPM

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

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 Max contamination index	**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

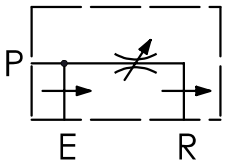
TIPO TYPE	A	PORTATA MAX MAX FLOW l/min-USgpm	PRESSIONE MAX MAX PRESSURE bar-PSI	B	C	D	E	F	G	H	I	L	M	N	S	U	PESO APPROX (kg) APPROX WEIGHT (lbt)
VPT380-RV	BSPP 3/8	50 (13.2)	250 (3625)	90 (3.54)	90 (3.54)	40 (1.57)	47,5 (1.87)	31 (1.22)	42 (1.65)	64 (2.52)	54 (2.13)	6 (0.24)	78 (3.07)	36,5 (1.44)	6,5 (0.26)	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)	1,94 (4.28)

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

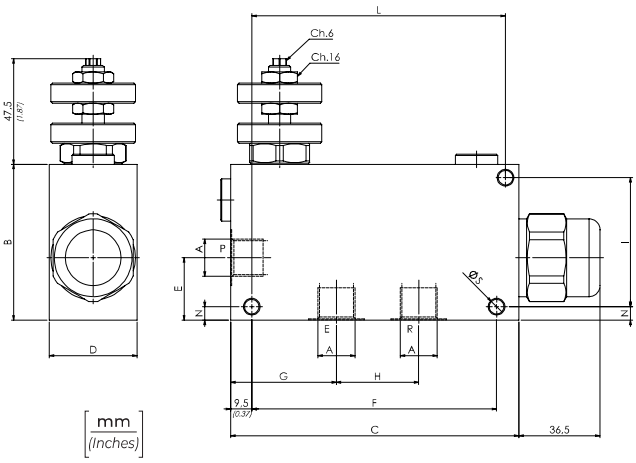
SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



DATI TECNICI / TECHNICAL DATA

Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)	
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)	
Classe di contaminazione max Max contamination index	**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

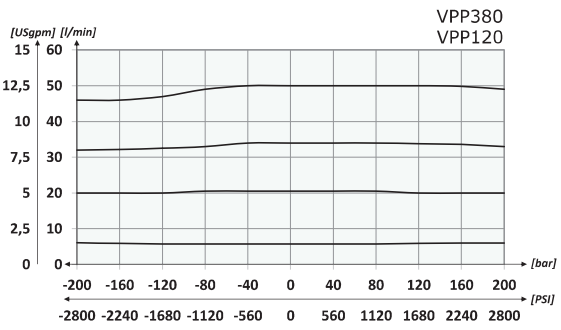
È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)

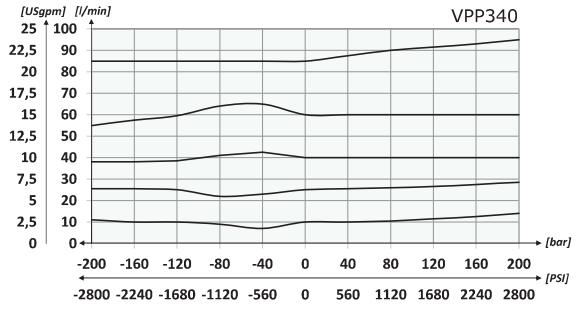


PORTATA MASSIMA L/MIN - MAX FLOW USGPM

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)													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)

CODICE ORDINAZIONE / ORDERING CODE

01	02	03	04	05	06	07
VPP		V	RV			

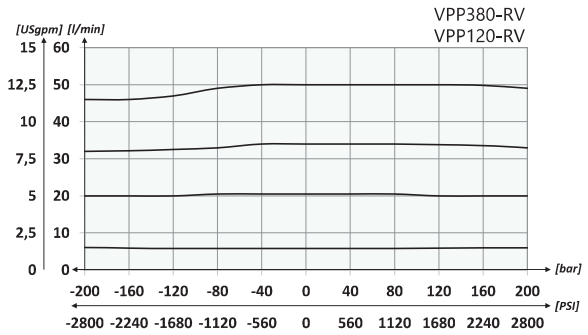
01	REGOLATORI DI FLUSSO 3 VIE - COMPENSATI, CON ECCEDENZA IN PRESSIONE, VALVOLA DI MASSIMA E VALVOLA ELETTRICA DI MESSA A SCARICO 3 WAYS FLOW CONTROL VALVES - PRESSURE COMPENSATED, EXCEEDING FLOW TO PRESSURE, RELIEF VALVE AND ELECTRICAL UNLOADER VALVE		**VPP**
02	DIMENSIONE (SIZE)	BSPP 3/8	**380**
		BSPP 1/2	**120**
03	REGOLAZIONE (SETTING)	Volantino (Hand wheel)	**V**
04	Valvola di massima (Relief valve)		**RV**
05	VALVOLA DI MASSIMA (RELIEF VALVE) **V MAX**	Tappo (Plug)	**0**
		VMD1NC1 Molla (Spring) **10/40 bar** (145/580PSI)	**1**
		VMD1NC2 Molla (Spring) **20/110 bar** (290/1595 PSI)	**2**
		VMD1NC3 Molla (Spring) **30/210 bar** (435/3045 PSI)	**3**
		VMD1NC4 Molla (Spring) **40/350 bar** (580/5075 PSI)	**4**
06	VALVOLA ELETTRICA (ELECTRICAL VALVE) **EV**	Tappo (Plug)	**0**
		EC082G-CNN (Normally closed)	**C**
		EC082G-ONN (Normally open)	**A**
		EC082G-CNV (Normally closed + Emergency)	**E**
07	BOBINA (COIL) **EV**	Senza bobina (Without coil)	
		12 V (DC)	**12**
		24 V (DC)	**24**
		220 V (RAC)	**220**

DATI TECNICI / TECHNICAL DATA

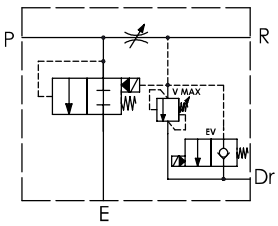
Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)	
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)	
Classe di contaminazione max Max contamination index	**ISO 4406:1999 Classe 19/17/14**	
Temperatura dell'olio - Oil temperature	**-20°C +80°C**	-4°F + 176°F
Temperatura ambiente -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

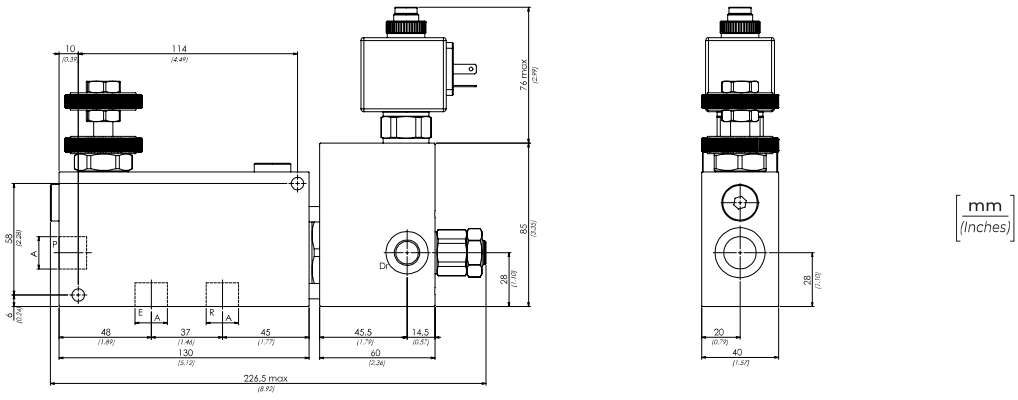


SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



PORTATA MASSIMA L/MIN - MAX FLOW USGPM

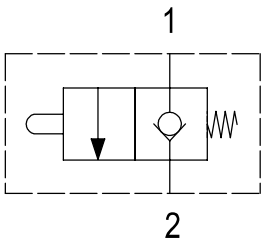
50 L/MIN CON 30 L/MIN IN R (13,3 USGPM WITH 8 USGPM IN R)	**380**
90 L/MIN CON 50 L/MIN IN R (24 USGPM WITH 13,3 USGPM IN R)	**120**



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)		

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT

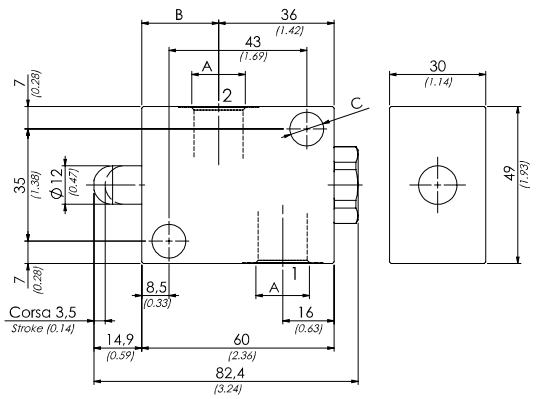


CODICE ORDINAZIONE / ORDERING CODE

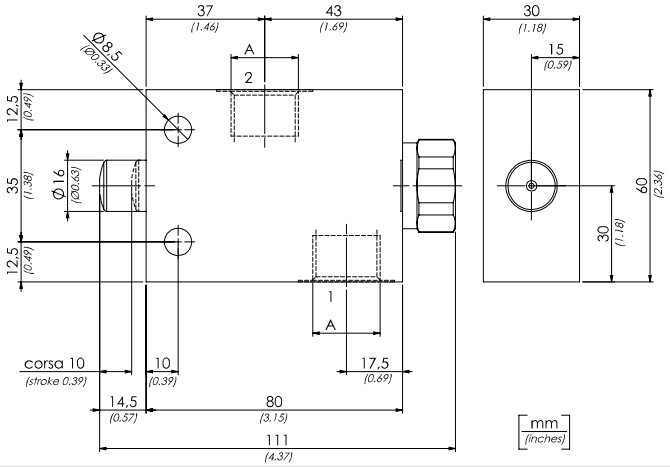
01	02
FCM	

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

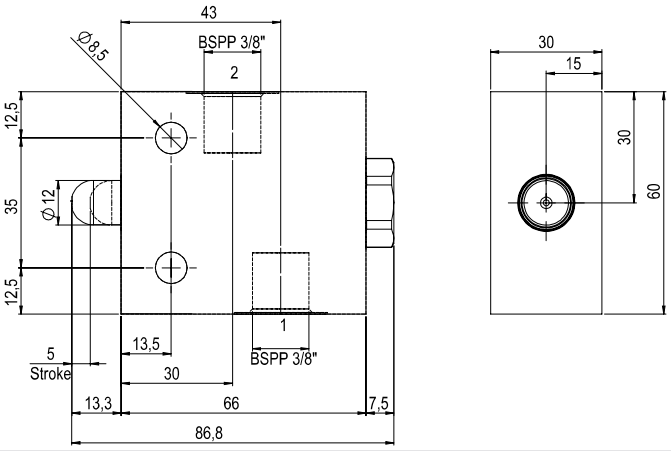
FCM140N - FCM380N



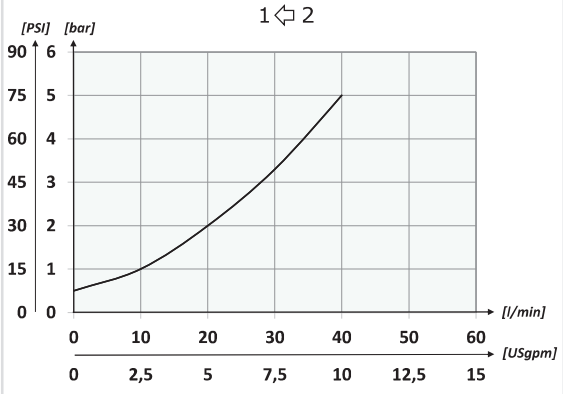
FCM120N



FCM380A



PERFORMANCES



DATI TECNICI / TECHNICAL DATA

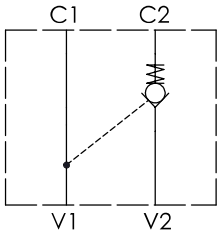
Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)
Classe di contaminazione max Max contamination index	**ISO 4406:1999 Classe 19/17/14**
Temperatura dell'olio - Oil temperature	**-20°C +80°C** -4°F + 176°F
Temperatura ambiente - Environment 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	C	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)	**8,5** (0.33)	**40** (10.6)	**350** (5075)	**0,53** (1.16)
FCM380N	**BSPP 3/8**	**24** (0.94)	**10,5** (0.41)			**0,60** (1.32)
FCM380A		-	**8,5** (0.33)			**0,84** (1.85)
FCM120N	**BSPP 1/2**	/		**60** (15.8)	**300** (4350)	**1,01** (2.22)

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



CODICE ORDINAZIONE
ORDERING CODE

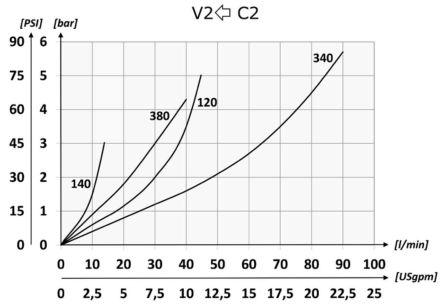
01	02
VRSE	

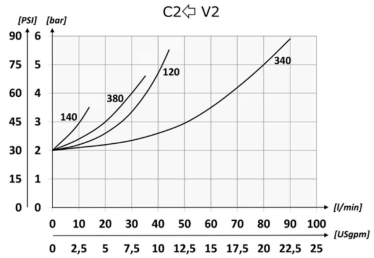
01	VALVOLE DI BLOCCO A SEMPLICE EFFETTO (SINGLE ACTING PILOT CHECK VALVES)		VRSE
02	DIMENSIONE (SIZE)	BSPP 1/4	140
		BSPP 3/8	380
		BSPP 1/2	120
		BSPP 3/4	340

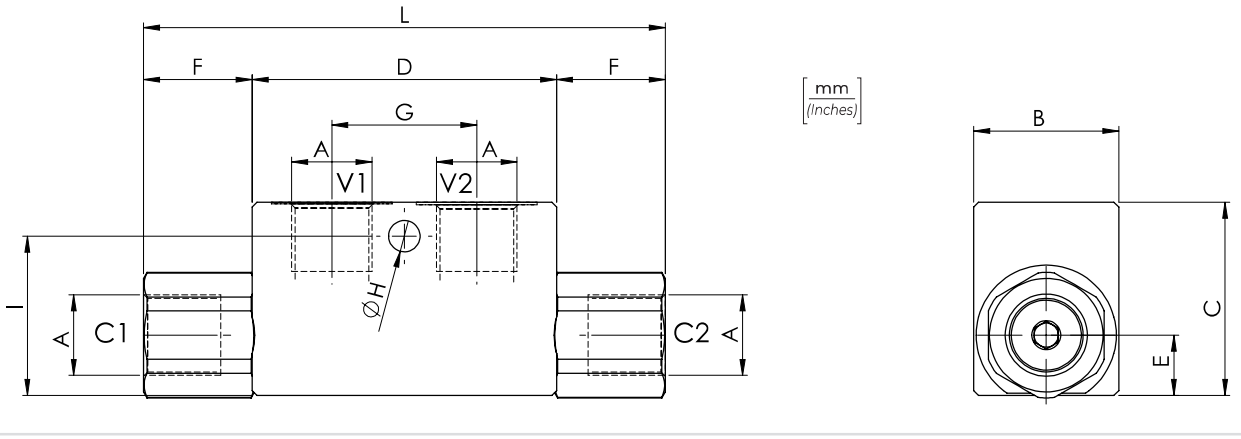
DATI TECNICI / TECHNICAL DATA

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 Max contamination index	**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

PERFORMANCES







CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

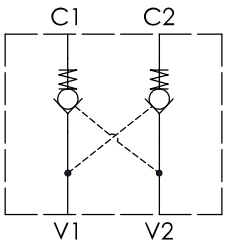
TIPO TYPE	A	PORTATA MAX MAX FLOW l/min-USgpm	PRESSIONE MAX MAX PRESSURE bar-PSI	B	C	D	E	F	G	H	I	L	PESO APPROX APPROX WEIGHT kg-lbt	RAPPORTO DI PILOTAGGIO PILOT RATIO
VRSE140	BSPP 1/4	15 (4)	350 (5075)	30 (1.18)	40 (1.57)	63 (2.48)	12,5 (0.49)	22,5 (0.89)	30 (1.18)	6,5 (0.26)	33 (1.30)	108 (4.25)	0,64 (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

CODICE ORDINAZIONE / ORDERING CODE

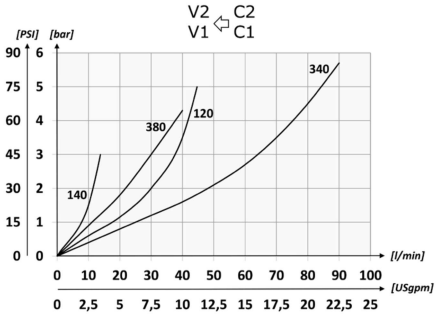
01	02
VRDE	

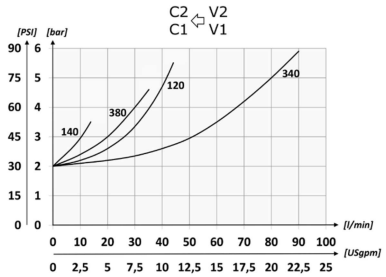
01	VALVOLE DI BLOCCO A DOPPIO EFFETTO (DOUBLE ACTING PILOT CHECK VALVES)		**VRDE**
02	DIMENSIONE (SIZE)	BSPP 1/4	**140**
		BSPP 3/8	**380**
		BSPP 1/2	**120**
		BSPP 3/4	**340**

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



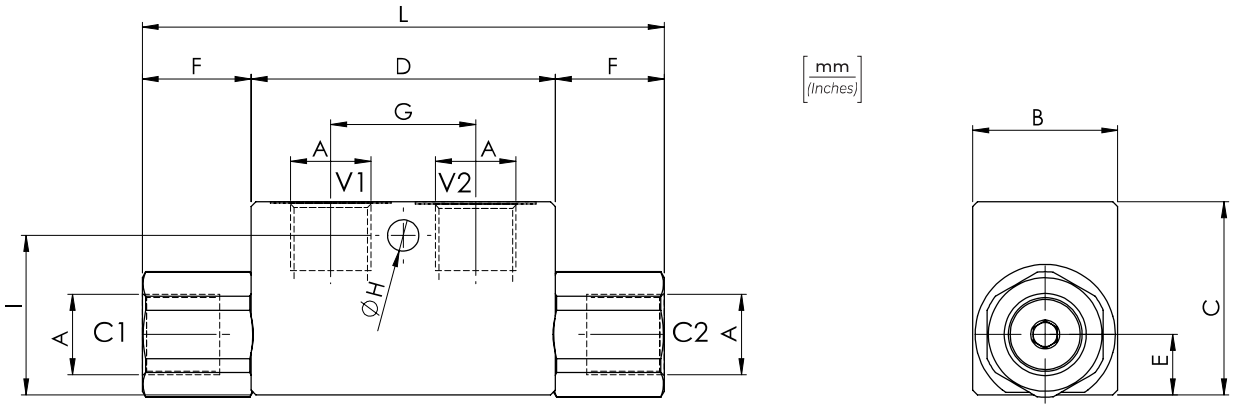
PERFORMANCES





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 Max contamination index	**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

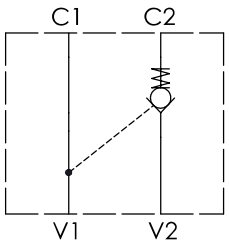
TIPO TYPE	A	PORTATA MAX MAX FLOW l/min-USgpm	PRESSIONE MAX MAX PRESSURE bar-PSI	B	C	D	E	F	G	H	I	L	PESO APPROX APPROX WEIGHT kg-lbt	RAPPORTO DI PILOTAGGIO PILOT RATIO
VRDE140	**BSPP 1/4**	**15** (4)	**350** (5075)	**30** (1.18)	**40** (1.57)	**63** (2.48)	**12,5** (0.49)	**22,5** (0.89)	**30** (1.18)	**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**

CODICE ORDINAZIONE / ORDERING CODE

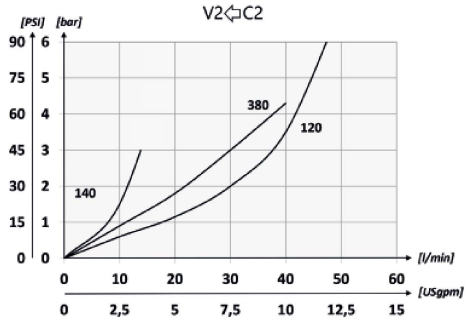
01	02	03
VRSD		

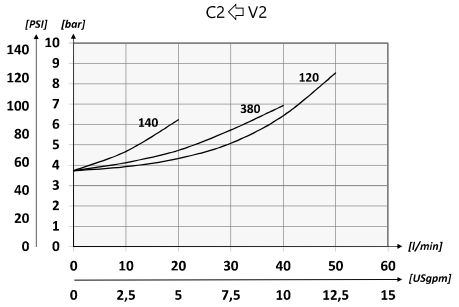
01	VALVOLE DI BLOCCO A SEMPLICE EFFETTO DIN2353 (DIN2353 SINGLE ACTING PILOT CHECK VALVES)		**VRSD**
02	DIMENSIONE / SIZE	BSPP 1/4	**140**
		BSPP 3/8	**380**
		BSPP 1/2	**120**
03	DIMENSIONE TUBO / SIZE PIPE	Per **tubo Ø 8** - For Ø 8 pipe only for **BSPP 1/4**	**T8**
		Per **tubo Ø 12** - For Ø 12 pipe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

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



PERFORMANCES





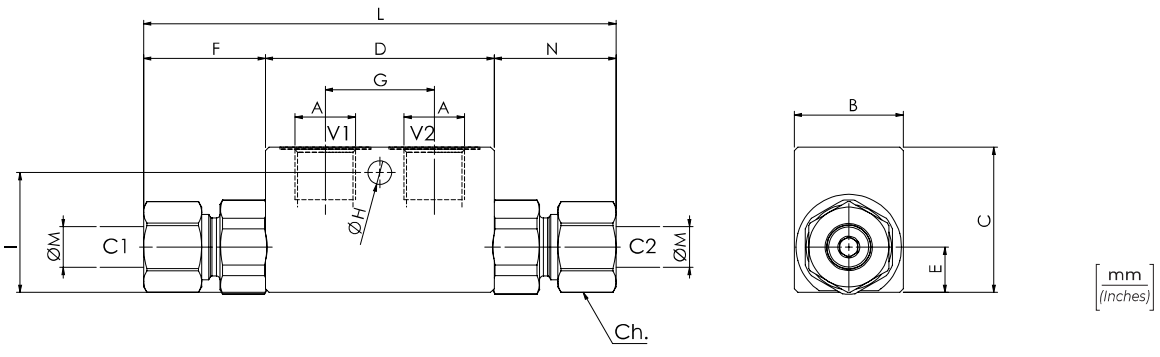
DATI TECNICI / TECHNICAL DATA

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 Max contamination index	**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 la presenza di un filtro nel circuito idraulico per proteggere la valvola (filtrazione consigliata 15 µm)

A filter into the hydraulic circuit necessary 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

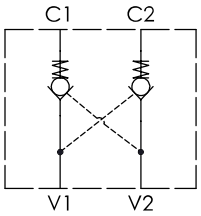
TIPO / TYPE	A	PORTATA MAX / MAX FLOW l/min-USgpm	PRESSIONE MAX / MAX PRESSURE bar-PSI	mm - inch										Ch.	PESO APPROX / APPROX WEIGHT kg-lbt	RAPPORTO DI PILOTAGGIO / PILOT RATIO
				B	C	D	E	F	G	H	I	L	M			
VRSD140T8	**BSPP 1/4**	**10** (2.6)	**350** (5075)	**30** (1.18)	**40** (1.57)	**63** (2.48)	**12,5** (0.49)	**28** (1.10)	**30** (1.18)	**6,5** (0.26)	**33** (1.30)	**119** (4.69)	**8** (0.31)	**17**	**0,62** (1.36)	**1:9**
VRSD140		**15** (4)						**32** (1.26)				**127** (5)	**12** (0.47)	**22**	**0,63** (1.37)	**1:4**
VRSD380	**BSPP 3/8**	**35** (9.2)													**0,60** (1.32)	
VRSD120	**BSPP 1/2**	**45** (11.9)		**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)	**27**	**1,10** (2.42)	

CODICE ORDINAZIONE / ORDERING CODE

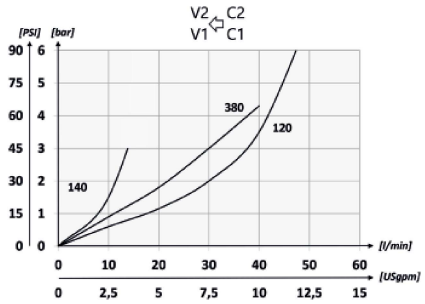
01	02	03
VRDD		

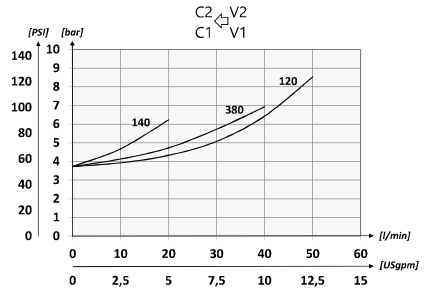
01	VALVOLE DI BLOCCO A DOPPIO EFFETTO DIN2353 (DIN2353 DOUBLE ACTING PILOT CHECK VALVES)		**VRDD**
02	DIMENSIONE SIZE	BSPP 1/4	**140**
		BSPP 3/8	**380**
		BSPP 1/2	**120**
03	DIMENSIONE TUBO SIZE PIPE	Per **tubo Ø 8** - For Ø 8 pipe only for **BSPP 1/4**	**T8**
		Per **tubo Ø 12** - For Ø 12 pipe standard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

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



PERFORMANCES





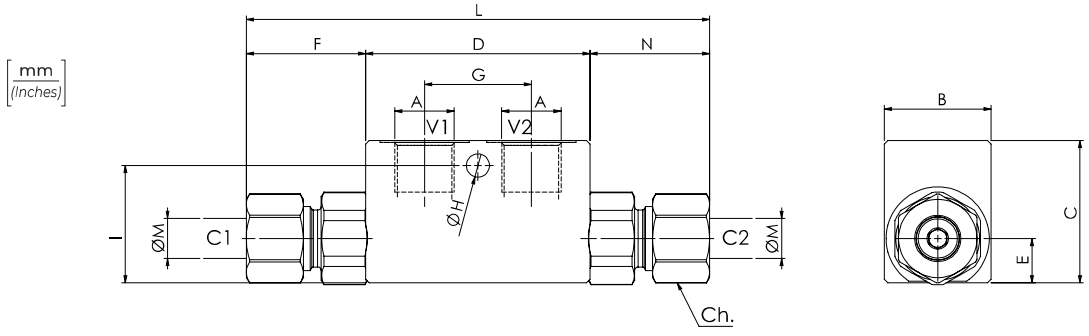
DATI TECNICI / TECHNICAL DATA

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 Max contamination index	**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 la presenza di un filtro nel circuito idraulico per proteggere la valvola (filtrazione consigliata 15 µm)

A filter into the hydraulic circuit necessary to protect the valve (advised filtration 15 µm)

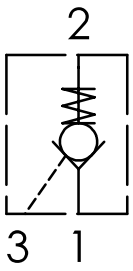
Trafilamento massimo Max leakage	**0,25 cm³/min - 5 gocce/min** 0,015 in³/min - 5 drops/min



CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	A	PORTATA MAX MAX FLOW l/min-USgpm	PRESSIONE MAX MAX PRESSURE bar-PSI	mm - inch										Ch.	PESO APPROX APPROX WEIGHT kg-lbt	RAPPORTO DI PILOTAGGIO PILOT RATIO
				B	C	D	E	F	G	H	I	L	M			
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)	**17**	**0,60** (1.32)	**1:9**
VRDD140		**15** (4)						**32** (1.26)				**127** (5)	**12** (0.47)	**22**	**0,64** (1.40)	**1:4**
VRDD380	**BSPP 3/8**	**35** (9.2)													**0,63** (1.38)	
VRDD120	**BSPP 1/2**	**45** (11.9)		**35** (1.38)	**50** (1.97)	**82** (3.23)	**16,5** (0.65)	**33,5** (1.32)	**36** (1.42)			**149** (5.87)	**15** (0.59)	**27**	**1,17** (2.57)	

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



CODICE ORDINAZIONE / ORDERING CODE

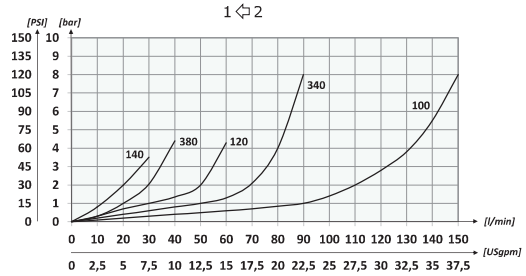
01	02
VRPE	

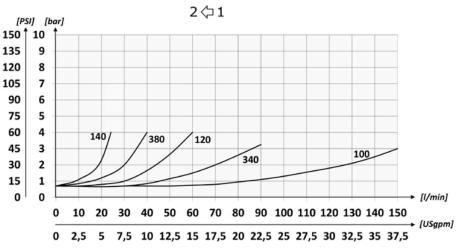
01	VALVOLE DI BLOCCO PILOTATE A SEMPLICE EFFETTO (SINGLE ACTING PILOT CHECK VALVES)		**VRPE**
02	DIMENSIONE (SIZE)	BSPP 1/4	**140**
		BSPP 3/8	**380**
		BSPP 1/2	**120**
		BSPP 3/4	**340**
		BSPP 1	**100**

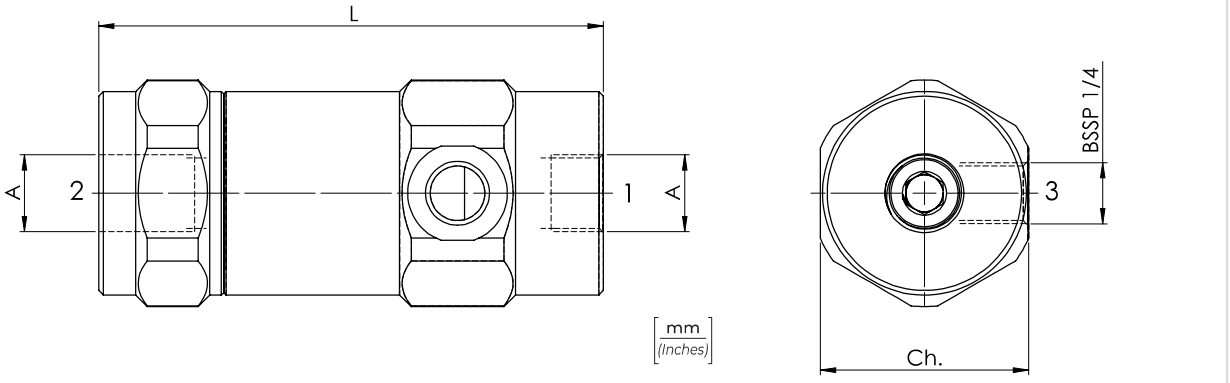
DATI TECNICI / TECHNICAL DATA

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 Max contamination index	**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

PERFORMANCES







CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

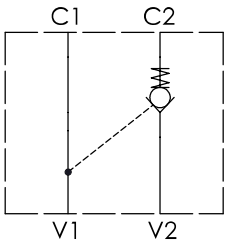
TIPO TYPE	A	PORTATA MAX (l/min) MAX FLOW (USgpm)	PRESSIONE MAX (bar) MAX PRESSURE (PSI)	L	C	FILETTATURA MAX ATTACCO BSPP 1/4" (mm) THREAD MAX PORT BSPP 1/4" (PSI)	PESO APPROX (kg) APPROX WEIGHT (lbt)	RAPPORTO DI PILOTAGGIO PILOT RATIO
VRPE140	**BSPP 1/4**	**25** (6.6)	**350** (5075)	**96** (3.78)	**40** (1.57)	**13** (0.51)	**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)		**121,7** (4.79)	**42** (1.62)	**11** (0.43)	**1,24** (2.73)	**1:4.2**
VRPE340	**BSPP 3/4**	**100** (26.4)	**300** (4350)	**132** (5.20)	**55** (2.17)	**13** (0.51)	**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**

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



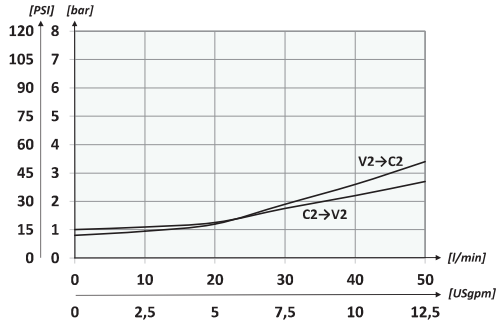
DATI TECNICI / TECHNICAL DATA

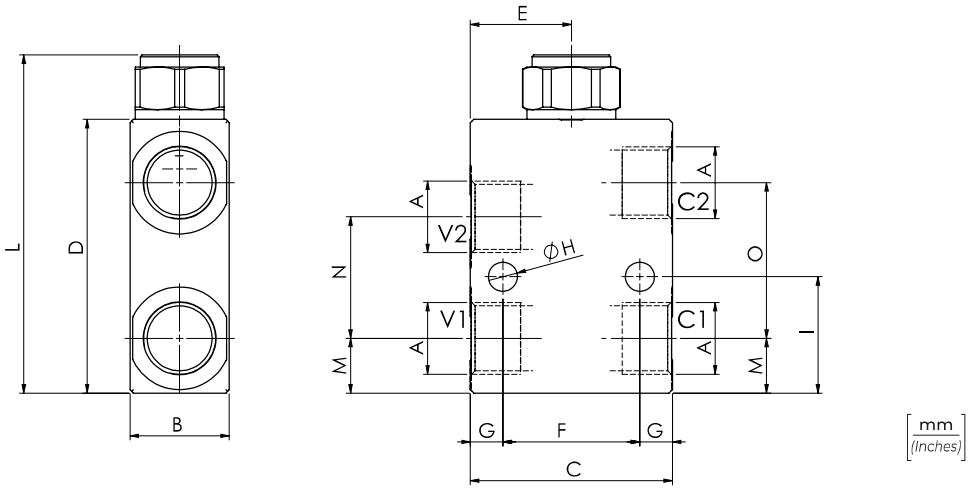
Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)
Classe di contaminazione max Max contamination index	**ISO 4406:1999 Classe 19/17/14**
Temperatura dell'olio - Oil temperature	**-20°C +80°C** -4°F + 176°F
Temperatura ambiente - Environment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

PERFORMANCES





mm (Inches)

CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

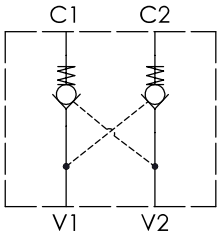
TIPO TYPE	A	PORTATA MAX MAX FLOW l/min-USgpm	PRESSIONE MAX MAX PRESSURE bar-PSI	B	C	D	E	F	G	H	I	L	M	N	O	PESO APPROX APPROX WEIGHT kg-lbt	RAPPORTO DI PILOTAGGIO PILOT RATIO
VRP380	**BSPP 3/8**	**35** (9.2)	**350** (5075)	**29** (1.14)	**59** (2.32)	**80** (3.5)	**29,5** (1.16)	**40** (1.57)	**9,5** (0.37)	**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)		

CODICE ORDINAZIONE / ORDERING CODE

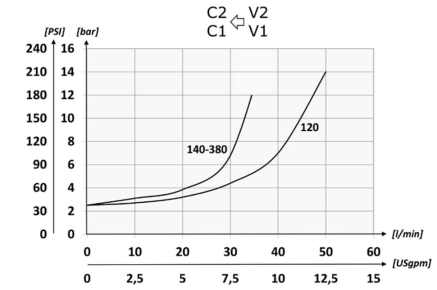
01	02
VRDL	

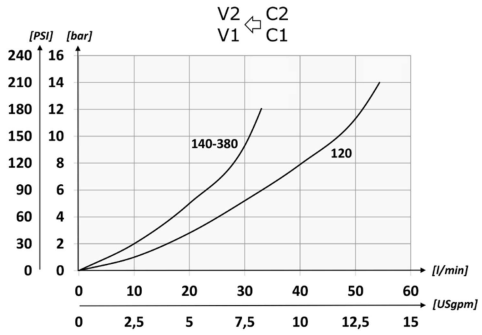
01	VALVOLE DI BLOCCO PILOTATE A DOPPIO EFFETTO (DOUBLE ACTING PILOT CHECK VALVES)		VRDL
02	DIMENSIONE (SIZE)	BSPP 1/4	140N
		BSPP 3/8	380N
		BSPP 1/2	120N

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



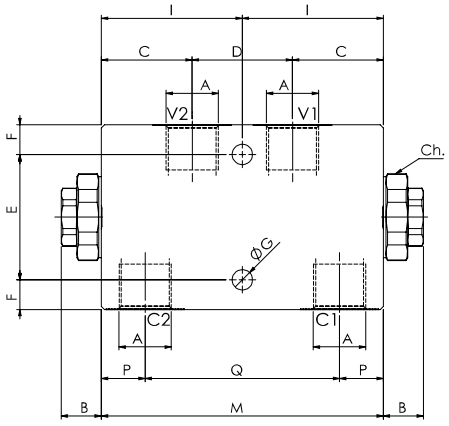
PERFORMANCES

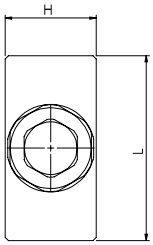




DATI TECNICI / TECHNICAL DATA

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 Max contamination index	**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





mm (Inches)

CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

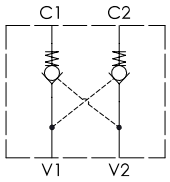
TIPO TYPE	A	PORTATA MAX MAX FLOW l/min-USgpm	PRESSIONE MAX MAX PRESSURE bar-PSI	B	C	D	E	F	G	H	I	L	M	P	Q	PESO APPROX APPROX WEIGHT kg-lbt	RAPPORTO DI PILOTAGGIO PILOT RATIO
VRDL140N	BSPP 1/4	35 (9.2)	350 (5075)	13 (0.51)	29 (1.14)	32 (1.26)	40 (1.57)	9,5 (0.37)	6,5 (0.26)	29 (1.14)	45 (1.77)	59 (2.32)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

CODICE ORDINAZIONE / ORDERING CODE

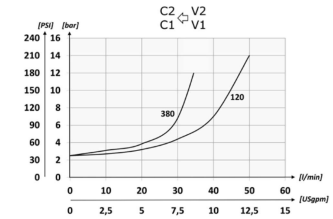
01	02	03	04	05
VRDF				

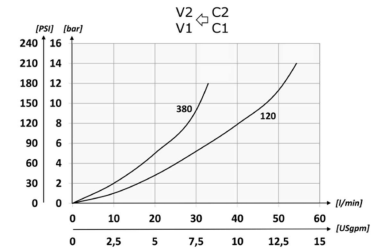
01	VALVOLE DI BLOCCO FLANGIATA A DOPPIO EFFETTO (DOUBLE ACTING PILOT CHECK VALVES - FLANGED VERSION)		**VRDF**
02	DIMENSIONE (SIZE)	BSPP 3/8	**380**
		BSPP 1/2	**120**
03	MOLLA (SPRING)	**1 bar** (14.5 PSI)	**1**
		6 bar (87 PSI) Standard	**6**
04	O-RING SUL PISTONE DI PILOTAGGIO (O-RING ON PILOT PISTON)	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**

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



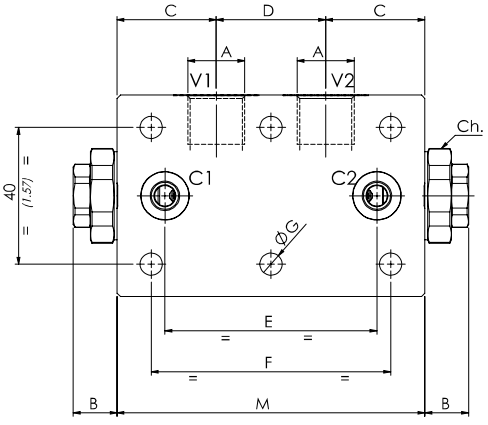
PERFORMANCES

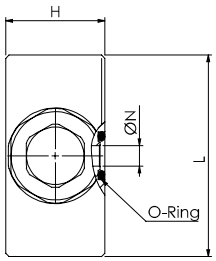




DATI TECNICI / TECHNICAL DATA

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 Max contamination index	**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





mm (Inches)

CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

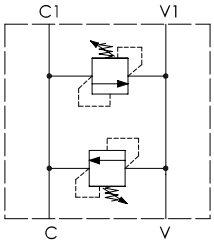
TIPO TYPE	A	PORTATA MAX MAX FLOW l/min-USgpm	PRESSIONE MAX MAX PRESSURE bar-PSI	B	C	D	E	F	G	H	L	M	N	O-RING	PESO APPROX APPROX WEIGHT kg-lbt	RAPPORTO DI PILOTAGGIO PILOT RATIO
VRDF380	**BSPP 3/8**	**35** (9.2)	**350** (5075)	**12,8** (0.50)	**29** (1.94)	**32** (1.26)	**62** (2.44)	**70** (2.76)	**6.5** (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

CODICE ORDINAZIONE / ORDERING CODE

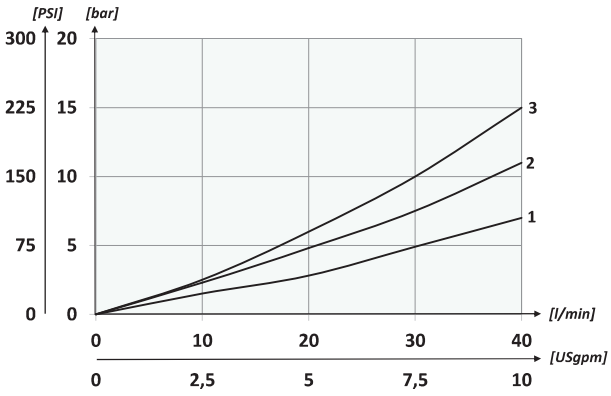
01	02	03
VBDC		

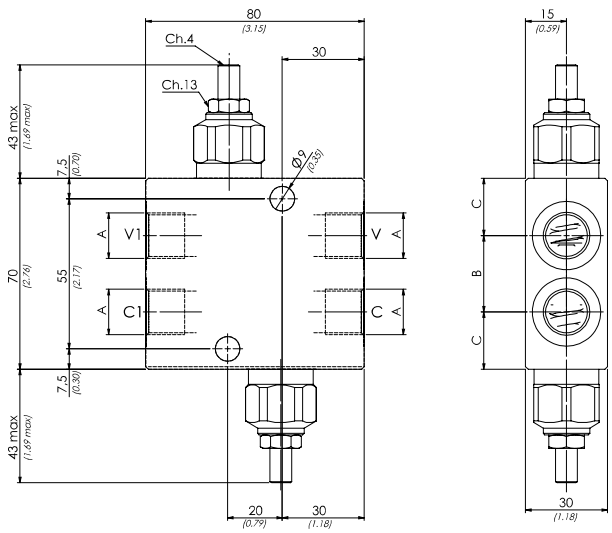
01	VALVOLE ANTIURTO DOPPIE INCROCIATE (DOUBLE CROSS LINE DIRECT ACTING RELIEF VALVES)		**VBDC**
02	DIMENSIONE (SIZE)	BSPP 3/8	**380**
		BSPP 1/2	**120**
03	MOLLA (SPRING) **10/90 bar** (145/1305 PSI)	**12 bar/al giro** (174 PSI/turn)	**1**
	MOLLA (SPRING) **20/210 bar** (290/3045 PSI)	**33 bar/al giro**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

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



PERFORMANCES





mm
(Inches)

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 Max contamination index	**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

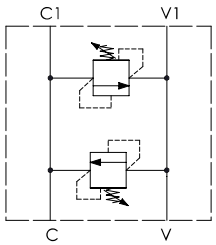
TIPO TYPE	A	PORTATA MAX MAX FLOW l/min-USgpm	PRESSIONE MAX MAX PRESSURE bar-PSI	B	C	PESO APPROX APPROX WEIGHT kg-lbt	VALVOLA TIPO TYPE OF VALVE
VBDC380	BSPP 3/8	40 (10.6)	350 (5075)	28 (1.10)	21 (0.83)	1,18 (2.60)	VMD40S
VBDC120	BSPP 1/2			33 (1.30)	18,5 (0.73)	1,12 (2.47)	

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)	**12 bar/al giro** (174 PSI/turn)	**1**
	MOLLA (SPRING) **20/210 bar** (290/3045 PSI)	**33 bar/al giro** (479 PSI/turn)	**2**
	MOLLA (SPRING) **70/350 bar** (1015/5075 PSI)	**70 bar/al giro** (1015 PSI/turn)	**3**

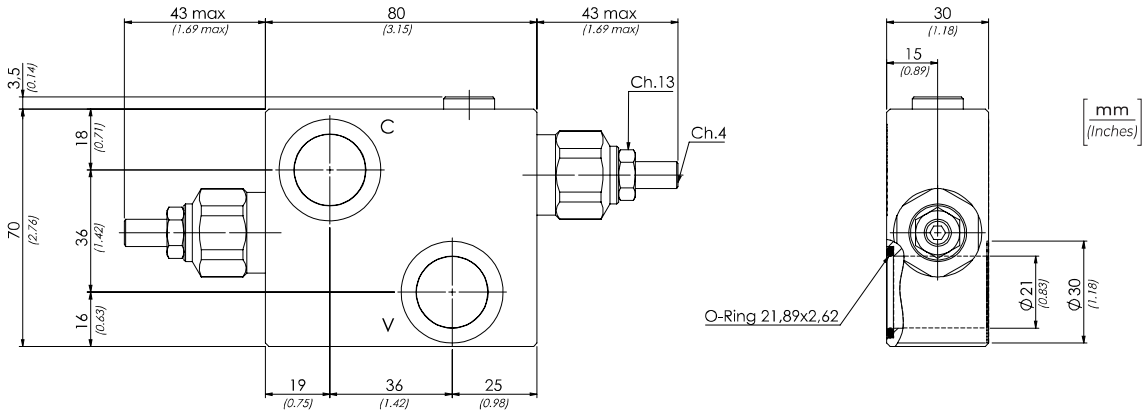
SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



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 Max contamination index	**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

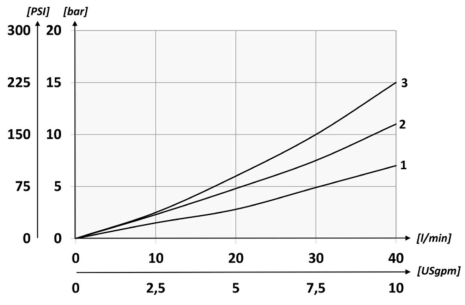
È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)



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

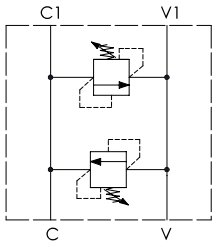


CODICE ORDINAZIONE / ORDERING CODE

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)	**12 bar/al giro** (174 PSI/turn)	**1**
	MOLLA (SPRING) **20/210 bar** (290/3045 PSI)	**33 bar/al giro** (479 PSI/turn)	**2**
	MOLLA (SPRING) **70/350 bar** (1015/5075 PSI)	**70 bar/al giro** (1015 PSI/turn)	**3**

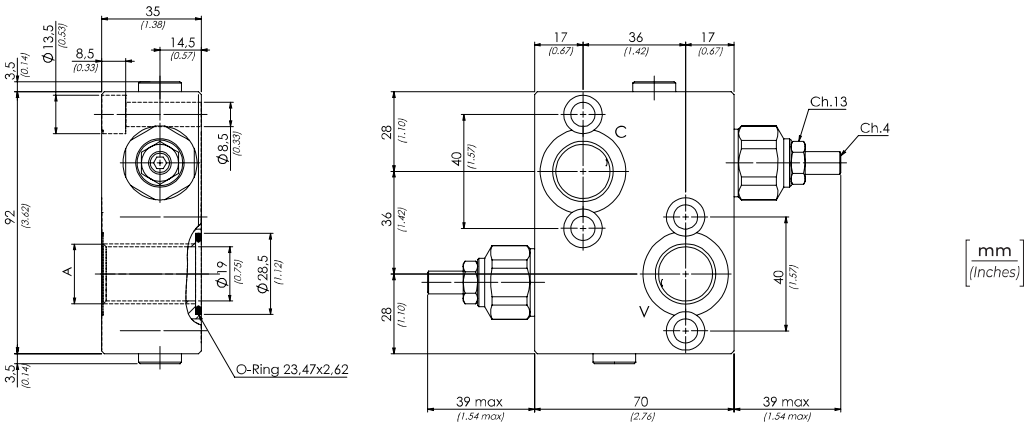
SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



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 Max contamination index	**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

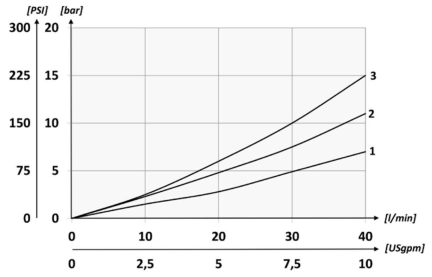
È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)
It is necessary a filter use to protect the valve (advised filtration 15 µm)



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
DCF120	**BSPP 1/2**	**40** (10.6)	**350** (5075)	**1,5** (3.3)	**VMD40S**

PERFORMANCES

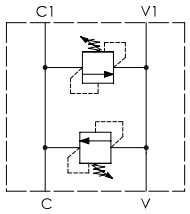


CODICE ORDINAZIONE / ORDERING CODE

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)	**12 bar/al giro** (174 PSI/turn)	**1**
	MOLLA (SPRING) **20/210 bar** (290/3045 PSI)	**33 bar/al giro** (479 PSI/turn)	**2**
	MOLLA (SPRING) **70/350 bar** (1015/5075 PSI)	**70 bar/al giro** (1015 PSI/turn)	**3**

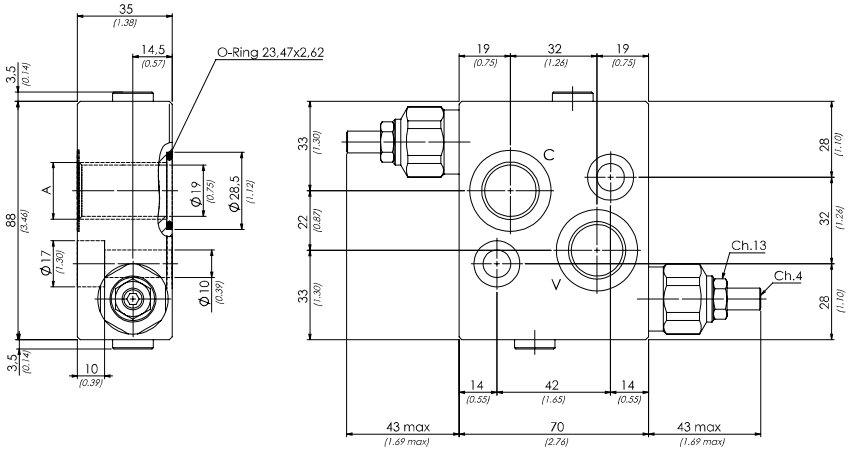
SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



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 Max contamination index	**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)

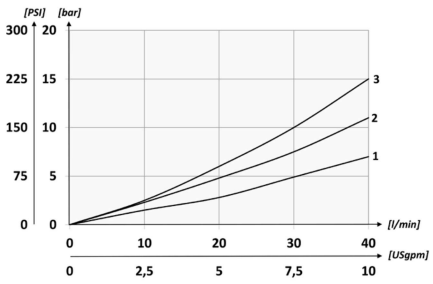


[mm / (Inches)]

CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	A	PORTATA MAX MAX FLOW l/min-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

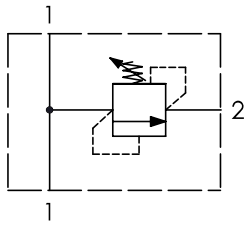


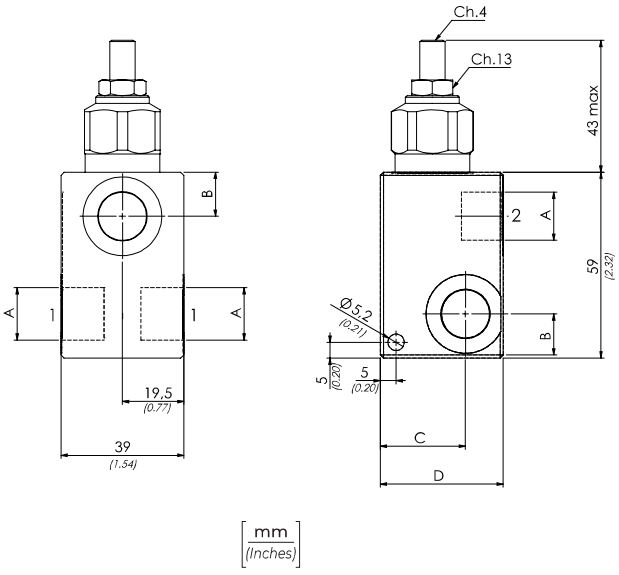
CODICE ORDINAZIONE / ORDERING CODE

01	02	03	04
VMDR40			

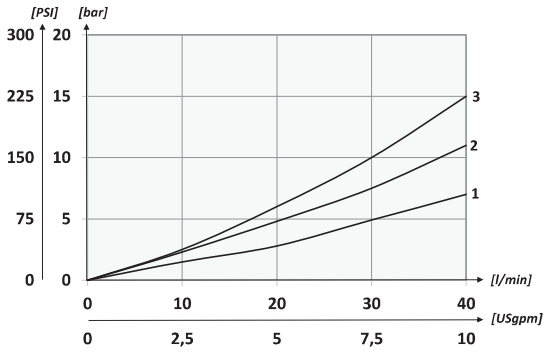
01	VALVOLE DI MASSIMA PRESSIONE DIRETTA IN LINEA (DIRECT ACTING PRESSURE RELIEF VALVES)		**VMDR40**
02	DIMENSIONE (SIZE)	BSPP 3/8	**380**
		BSPP 1/2	**120**
03	REGOLAZIONE (SETTING)	Chiave (Screw)	**C**
		Volantino (Handknob) Tipo (Type) **81300109**	**V**
04	MOLLA (SPRING) **10/90 bar** (145/1305 PSI)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

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT





PERFORMANCES



DATI TECNICI / TECHNICAL DATA

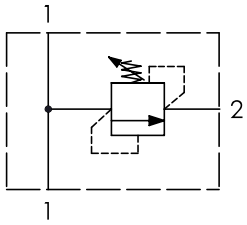
Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)
Classe di contaminazione max Max contamination index	**ISO 4406:1999 Classe 19/17/14**
Temperatura dell'olio - Oil temperature	**-20°C +80°C** -4°F + 176°F
Temperatura ambiente - Environment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

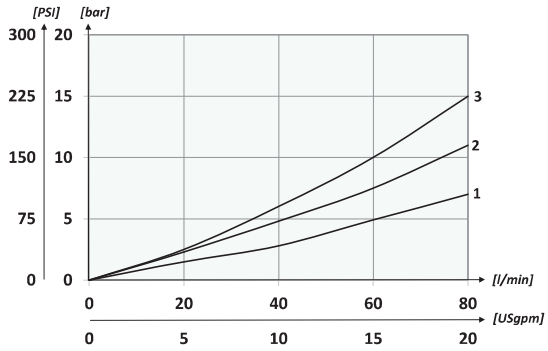
CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

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)

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



PERFORMANCES



DATI TECNICI / TECHNICAL DATA

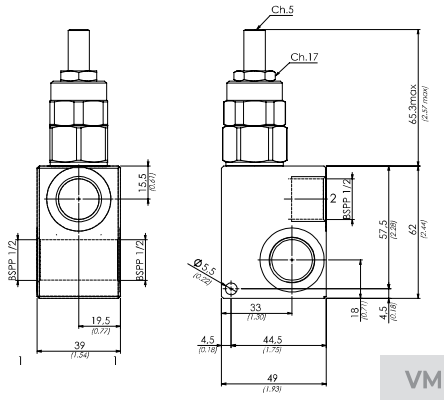
Olio idraulico - Mineral oil	**ISO 6743/4** (DIN 51524)	
Viscosità olio - Oil viscosity	**15-250 mm²/s** (15 to 250 cSt)	
Classe di contaminazione max Max contamination index	**ISO 4406:1999 Classe 19/17/14**	
Temperatura dell'olio - Oil temperature	**-20°C +80°C**	-4°F + 176°F
Temperatura ambiente -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

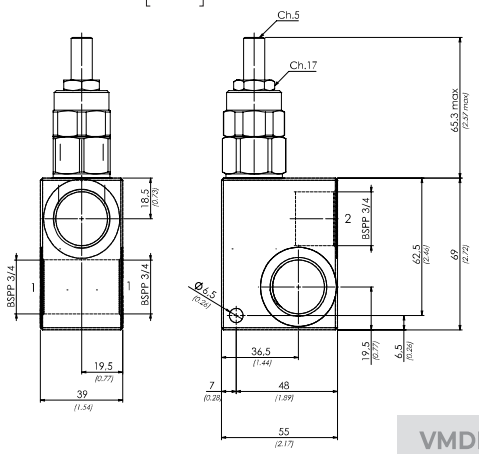
CODICE ORDINAZIONE / ORDERING CODE

01	02	03	04
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)	**26 bar/al giro** (377 PSI/turn)	**1**
	MOLLA (SPRING) **20/250 bar** (290/3625 PSI)	**41 bar/al giro** (595 PSI/turn)	**2**
	MOLLA (SPRING) **50/350 bar** (725/5075 PSI)	**91 bar/al giro** (1320 PSI/turn)	**3**



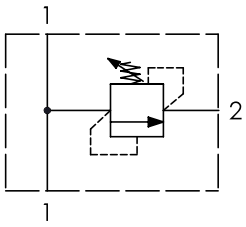
mm (Inches)



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)

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT

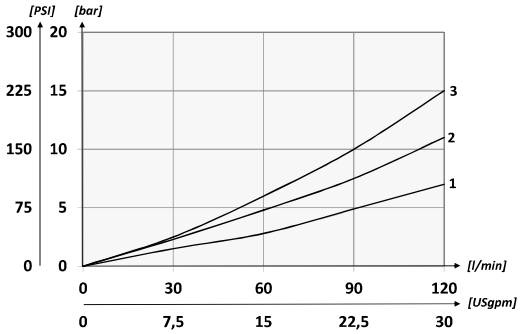


CODICE ORDINAZIONE / ORDERING CODE

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)	**21 bar/al giro** (305 PSI/turn)	**1**
	MOLLA (SPRING) **20/250 bar** (290/3625 PSI)	**48 bar/al giro** (696 PSI/turn)	**2**
	MOLLA (SPRING) **40/350 bar** (580/5075 PSI)	**55 bar/al giro** (798 PSI/turn)	**3**

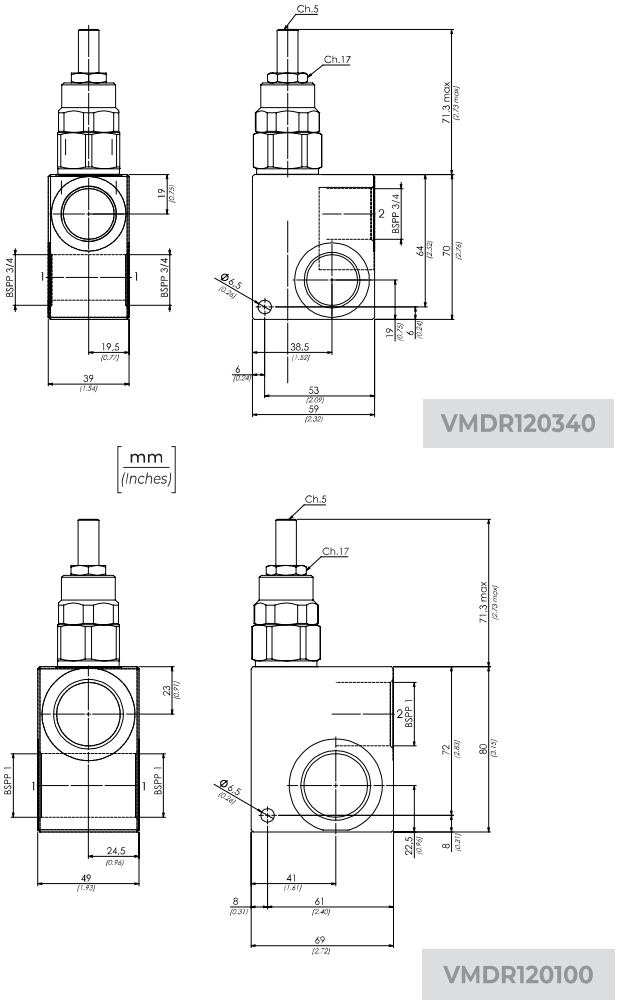
PERFORMANCES



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 Max contamination index	**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

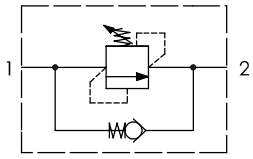
TIPO TYPE	**PORTATA MAX** (l/min) MAX FLOW (USgpm)	**PRESSIONE MAX** (bar) MAX PRESSURE (PSI)	**PESO APPROX** (kg) APPROX WEIGHT (lbt)
VMDR120340	**120** (31.7)	**350** (5075)	**1,1** (2.42)
VMDR120100			**1,7** (3.74)

CODICE ORDINAZIONE / ORDERING CODE

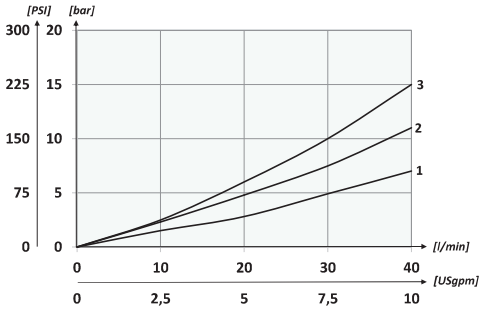
01	02	03
VSL		

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) **10/90 bar** (145/1305 PSI) max	**12 bar/al giro** (174 PSI/turn)	**1**
	MOLLA (SPRING) **20/210 bar** (290/3045 PSI) max	**30 bar/al giro** (435 PSI/turn)	**2**
	MOLLA (SPRING) **70/350 bar** (1015/5075 PSI) max	**65 bar/al giro** (943 PSI/turn)	**3**

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



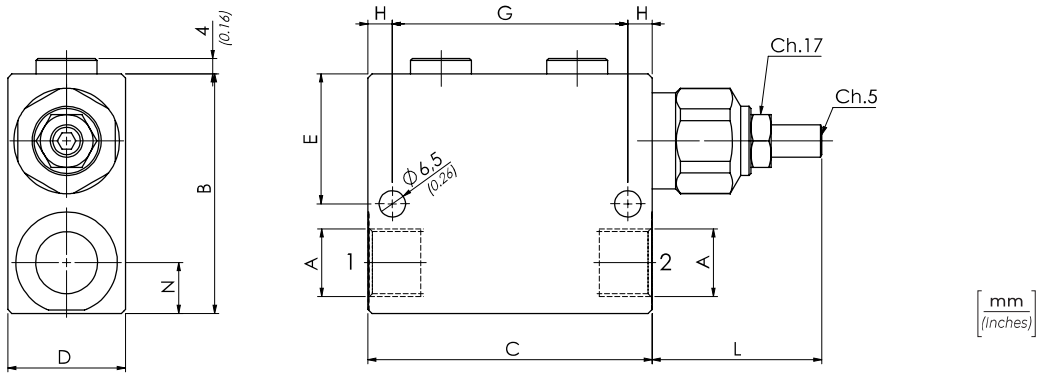
PERFORMANCES



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 Max contamination index	**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 la presenza di un filtro nel circuito idraulico per proteggere la valvola (filtrazione consigliata 15 µm)
A filter into the hydraulic circuit necessary to protect the valve (advised filtration 15 µm)



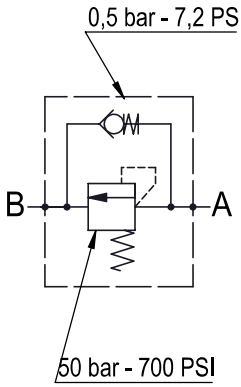
CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	A	PORTATA MAX MAX FLOW l/min-USgpm	PRESSIONE MAX MAX PRESSURE bar-PSI	mm - inch									PESO APPROX APPROX WEIGHT kg-lbt
				B	C	D	E	G	L	N	H	P	
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)

CODICE ORDINAZIONE
ORDERING CODE

01	02	03		
VSLH	380			

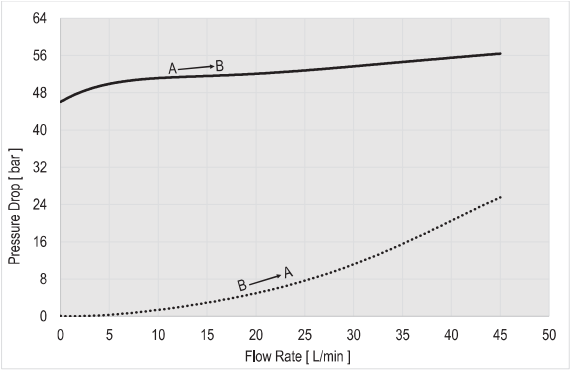
SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



01	VALVOLE DI SEQUENZA DIRETTE A TARATURA FISSA (IN-LINE SEQUENCE VALVES FIXED SETTING)		**VSLH**
02	DIMENSIONE (SIZE)	3/8	**380**
03	FILETTATURA (THREAD)	**BSPP 3/8**	**G**
		NPTF 3/8	**F**
04	TARATURA SEQUENZA (SETTING SEQUENCE)	50 bar * (725 PSI)	**50**
05	PRESSIONE DI APERTURA (CHECK VALVE CRACKING PRESSURE)	0.5 bar (7.25 PSI)	**05**

* PER TARATURE DIFFERENTI DALLO STD CONTATTARE UFFICIO COMMERCIALE
(FOR DIFFERENT SETTING OPTIONS CONTACT OUR CUSTOMER CARE)

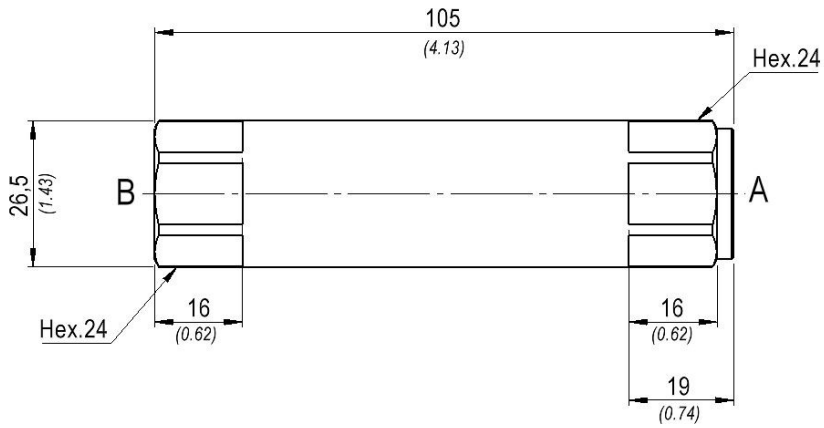
PERFORMANCES



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 Max contamination index	**ISO 4406:1999 Classe 18/16/13**
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 la presenza di un filtro nel circuito idraulico per proteggere la valvola (filtrazione consigliata 15 µm)
A filter into the hydraulic circuit necessary to protect the valve (advised filtration 15 µm)



mm
(Inches)

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)	**ATTACCHI A-B** PORTS A-B
VSLH380G50-0,5	**45** (12)	**350** (5075)	**0,35** (0.77)	**BSPP 3/8**
VSLH380F50-0,5				**NPTF 3/8**