

VALVOLE A INSERTO

INSERT VALVES

Valvole a inserto per il controllo della portata, di sicurezza anti rottura tubo e di regolazione della velocità di discesa degli attuatori.

Flow control valves, Hose burst valves, Descent Speed control valves pressure compensated.





CODICE ORDINAZIONE ORDERING CODE

01	02
VUI	

01	VALVOLE UNIDIREZIONALI A SFERA (CHECK VALVES - BALL TYPE)		VUI
02	DIMENSIONE (SIZE)	BSPP 1/4	140
		BSPP 3/8	380
		BSPP 1/2	120
		BSPP 3/4	340

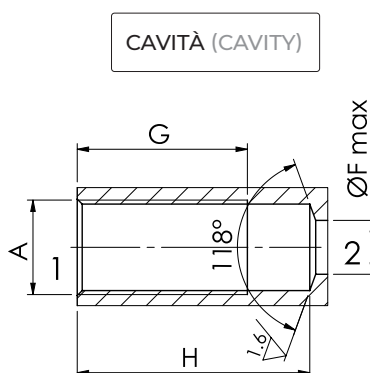
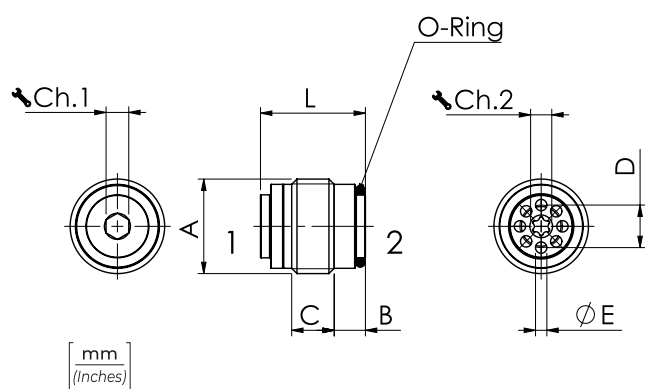
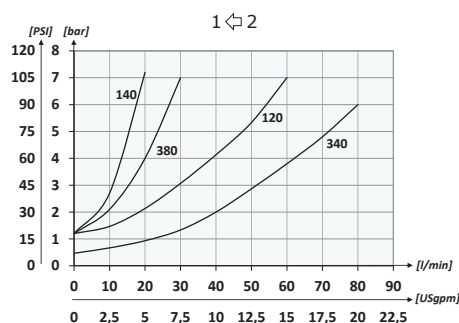
SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



DATI TECNICI / TECHNICAL DATA

Olio idraulico - Mineral oil	ISO 6743/4 (DIN 51524)
Viscosità olio - Oil viscosity	15-250 mm²/s (15 to 250 cSt)
Classe di contaminazione max con filtro Max contamination index with filter	ISO 4406:1999 Classe 19/17/14
Temperatura dell'olio - Oil temperature	-20°C +80°C -4°F +176°F
Temperatura ambiente - Ambient temperature	-20°C +50°C -4°F +122°F
È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm) It is necessary a filter use to protect the valve (advised filtration 15 µm)	
Trafilamento massimo Max leakage	0,25 cm³/min - 5 gocce/min 0,015 in³/min - 5 drops/min
Pressione d'apertura - Cracking pressure	0,5 bar - 7.25 PSI

PERFORMANCES



**È POSSIBILE
INSTALLARE LA VALVOLA
IN ENTRAMBI I VERSI**

**IT'S POSSIBLE
TO INSTALL THE VALVE
IN BOTH DIRECTIONS**

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	CH. 1	CH. 2	COPPIA DI SERRAGGIO TIGHTENING TORQUE Nm-lbt ft	O-RING	PESO APPROX APPROX WEIGHT kg-lbt
VUI140	BSPP 1/4	20 (5.3)	350 (5075)	5,5 (0.22)	6 (0.24)	6 (0.24)	1,3 (0.05)	7 (0.28)	28 (1.10)	31 (1.22)	17 (0.67)	3	Torx T15	4 (35)	9 x 1	0,01 (0.022)
VUI380	BSPP 3/8	30 (7.9)			7,5 (0.30)	7,5 (0.30)	2 (0.08)	9 (0.35)	31 (1.22)	34 (1.34)	18,5 (0.73)	4	Torx T15	6 (53)	10,82 x 1,78	0,018 (0.040)
VUI120	BSPP 1/2	50 (13.2)			7 (0.28)	8,5 (0.34)	10 (0.39)	2,5 (0.10)	12 (0.47)	35 (1.38)	38 (1.50)	6	5	10 (88)	14 x 1,78	0,033 (0.073)
VUI340	BSPP 3/4	80 (21.1)			8 (0.31)	12,5 (0.49)	14 (0.55)	3 (0.12)	16 (0.63)	41 (1.61)	45 (1.77)	8	8	20 (177)	18,72 x 2,62	0,07 (0.16)

VUC VALVOLE UNIDIREZIONALI A OTTURATORE

CHECK VALVES - POPPET TYPE



CODICE ORDINAZIONE
ORDERING CODE

01
VUC

02

01	VALVOLE UNIDIREZIONALI AD OTTURATORE (CHECK VALVES - POPPET TYPE)		VUC
02	DIMENSIONE (SIZE)	BSPP 1/4	140
		BSPP 3/8	380

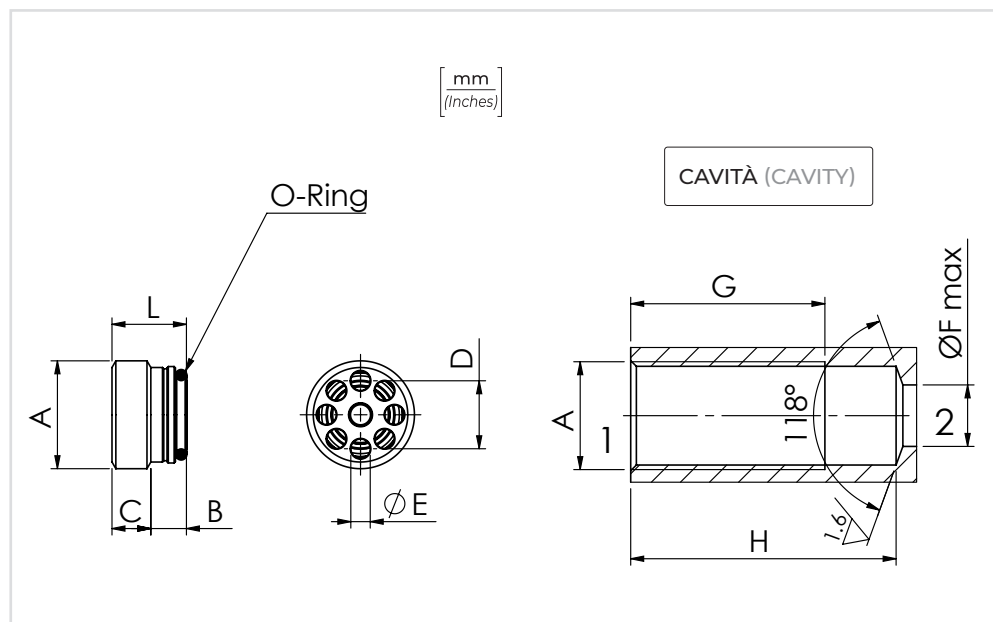
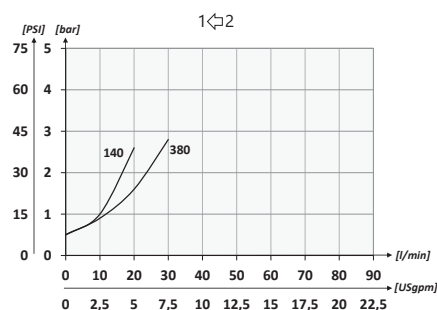
SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



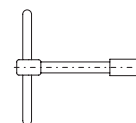
DATI TECNICI / TECHNICAL DATA

Olio idraulico - Mineral oil	ISO 6743/4 (DIN 51524)		
Viscosità olio - Oil viscosity	15-250 mm²/s (15 to 250 cSt)		
Classe di contaminazione max con filtro Max contamination index with filter	ISO 4406:1999 Classe 19/17/14		
Temperatura dell'olio - Oil temperature	-20°C +80°C	-4°F +176°F	
Temperatura ambiente - Ambient temperature	-20°C +50°C	-4°F +122°F	
È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm) It is necessary a filter use to protect the valve (advised filtration 15 µm)			
Trafilamento massimo Max leakage	0,25 cm³/min - 5 gocce/min 0,015 in³/min - 5 drops/min		
Pressione d'apertura - Cracking pressure	0,5 bar - 7.25 PSI		

PERFORMANCES



CHIAVE
TOOL



DIMENSIONE
(DIMENSIONS)

TIPO CHIAVE TOOL'S TYPE	TIPO TYPE	PESO (kg) WEIGHT (lb)
61700003	VUC120	0,15 (0.33)
61700031	VUC340	0,18 (0.40)

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	COPPIA DI SERRAGGIO TIGHTENING TORQUE Nm-lbt ft	O-Ring	PESO APPROX APPROX WEIGHT kg-lbt
VUC140	BSPP 1/4	20 (5.3)	350 (5075)	4 (0.16)	5 (0.20)	7 (0.28)	2,2 (0.94)	7 (0.28)	22 (0.87)	24 (0.94)	9 (0.35)	6 (53)	9 x 1	0,01 (0.022)
VUC380	BSPP 3/8	30 (7.9)		5,5 (0.22)	6 (0.24)	10,5 (0.41)	3 (0.12)	9 (0.35)	27 (1.06)	29 (1.14)	11,5 (0.45)	6 (53)	10,82 x 1,78	

VUP VALVOLE UNIDIREZIONALI A DISCO

CHECK VALVES - DISK TYPE



CODICE ORDINAZIONE
ORDERING CODE

01
VUP

02

01	VALVOLE UNIDIREZIONALI A DISCO (CHECK VALVES - DISK TYPE)		VUP
02	DIMENSIONE (SIZE)	BSPP 1/2	120
		BSPP 3/4	340

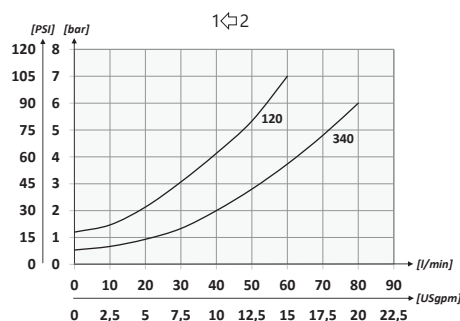
SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



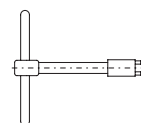
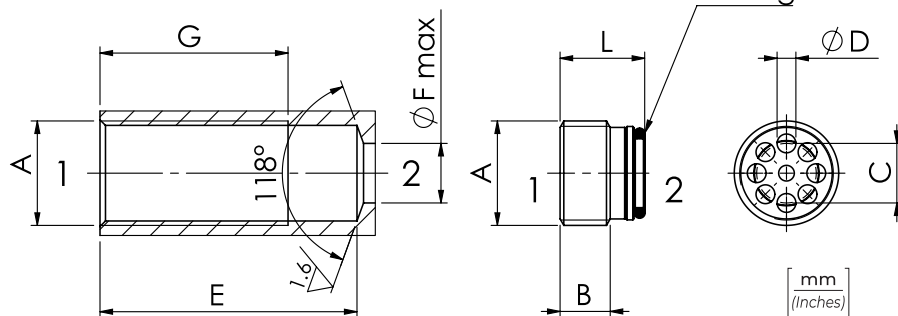
DATI TECNICI / TECHNICAL DATA

Olio idraulico - Mineral oil	ISO 6743/4 (DIN 51524)
Viscosità olio - Oil viscosity	15-250 mm ² /s (15 to 250 cSt)
Classe di contaminazione max con filtro Max contamination index with filter	ISO 4406:1999 Classe 19/17/14
Temperatura dell'olio - Oil temperature	-20°C +80°C -4°F +176°F
Temperatura ambiente - Ambient temperature	-20°C +50°C -4°F +122°F
È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm) It is necessary a filter use to protect the valve (advised filtration 15 µm)	
Trafilamento massimo Max leakage	0,25 cm ³ /min - 5 gocce/min 0,015 in ³ /min - 5 drops/min
Pressione d'apertura - Cracking pressure	0,5 bar - 7.25 PSI

PERFORMANCES



CAVITÀ (CAVITY)



CHIAVE
TOOL

DIMENSIONE
(DIMENSIONS)

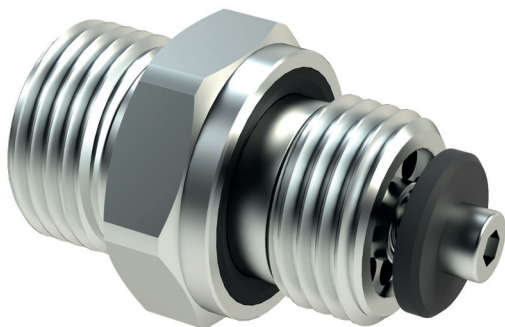
TIPO CHIAVE TOOL'S TYPE	TIPO TYPE	PESO (kg) WEIGHT (lb)
61700003	VUP120	0,15 (0.33)
61700030	VUP340	0,18 (0.40)

CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

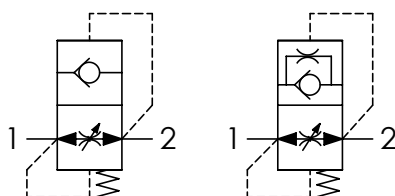
TIPO TYPE	A	PORTATA MAX MAX FLOW l/min-USgpm	PRESSIONE MAX MAX PRESSURE bar-PSI	B	C	D	E	F	G	L	COPPIA DI SERRAGGIO TIGHTENING TORQUE Nm-lbt ft	O-Ring	PESO APPROX APPROX WEIGHT kg-lbt
VUP120	BSPP 1/2	60 (15.9)	350 (5075)	10 (0.39)	12 (0.47)	4 (0.16)	32 (1.26)	12 (0.47)	29 (1.14)	16,1 (0.63)	10 (88)	14 x 1,78	0,02 (0.044)
VUP340	BSPP 3/4	80 (21.1)		10,5 (0.41)	16 (0.63)	4,75 (0.19)	37 (1.46)	16 (0.63)	33 (1.30)	20,2 (0.80)	20 (177)	18,72 x 2,62	0,043 (1.12)

VUBA-DIN VALVOLE DI SICUREZZA PER TUBAZIONI DIN

DIN HOSE BURST VALVES

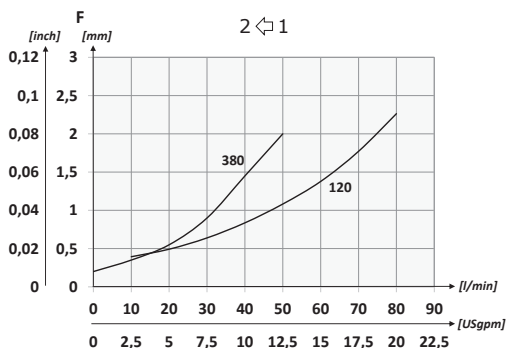


SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



CON FORO
(WITH ORIFICE)

REGOLAZIONE "F" / SETTING "F"



DATI TECNICI / TECHNICAL DATA

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

CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

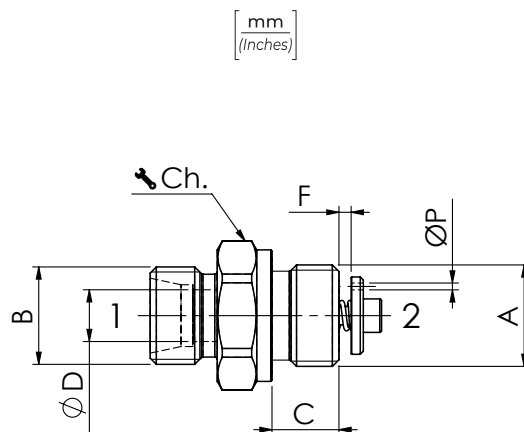
TIPO TYPE	A	PORTATA MAX MAX FLOW l/min-USgpm	PRESSIONE MAX MAX PRESSURE bar-PSI	B	C	D	Ch.	COPPIA MAX DI SERRAGGIO RACCORDO (Nm) MAX FITTING TIGHTENING TORQUE (lbt in)	COPPIA MAX DI SERRAGGIO TUBO (Nm) MAX TIGHTENING TORQUE FOR HOSE (lbt in)	PESO APPROX APPROX WEIGHT kg-lbt
VUBA380T10	BSPP 3/8	50 (13.2)	315 (4568)	M16 x 1,5	11 (0.43)	10 (0.39)	22	70 (50)	20 (15)	0,044 (0.097)
VUBA380T12				M18 x 1,5		12 (0.47)	22		40 (30)	
VUBA380T15				M22 x 1,5	13 (0.51)	15 (0.59)	24	85 (65)	70 (50)	0,060 (0.13)
VUBA120T15	BSPP 1/2	80 (21.1)					27			0,077 (0.17)

CODICE ORDINAZIONE ORDERING CODE	01	02	03	04	05
VUBA					

01	VALVOLE DI SICUREZZA PER TUBAZIONI DIN (DIN HOSE BURST VALVES)		VUBA
02	DIMENSIONE (SIZE)	BSPP 3/8	380
		BSPP 1/2	120
03	DIMENSIONE (SIZE)	Tubo Ø 10 (For Ø 10 pipe)	T10
		Tubo Ø 12 (For Ø 12 pipe)	T12
		Tubo Ø 15 (For Ø 15 pipe, only for VUBA120)	T15
04	REGOLAZIONE (SETTING)	Esempio: regolazione 0,7 mm (Example: setting 0.7 mm) F 0,7	F__
		*Omettere se non richiesto (Omit if not required)	
05	FORO SUL PIATTELLO (ORIFICE ON FLAT POPPET)	Esempio: foro 1,5 mm (Example: hole 1.5 mm) P 1,5	P__
		Omettere se non richiesto (Omit if not required)	

*Se ommesso questo valore, le valvole vengono fornite senza alcuna taratura di fabbrica e i dadi non sono serrati. Per garantire il loro corretto funzionamento è necessario che venga eseguito il settaggio da parte dell'installatore finale.

If omitted this value, the valves are supplied without factory setting and nuts are not tightened. For the correct operating it is needed a calibration of the valve made by final installer.

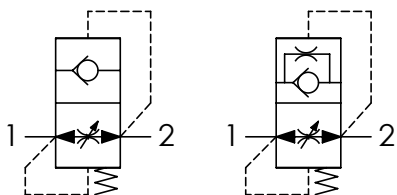


VUBA VALVOLE DI SICUREZZA PER TUBAZIONI

HOSE BURST VALVES



SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



CON FORO
(WITH ORIFICE)

CODICE ORDINAZIONE ORDERING CODE

01	02	03	04
VUBA			

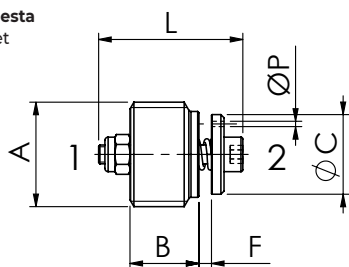
01	VALVOLE DI SICUREZZA PER TUBAZIONI (HOSE BURST VALVES)	VUBA
02	DIMENSIONE (SIZE)	BSPP 1/4
		BSPP 3/8
		BSPP 1/2
		BSPP 3/4
		BSPP 1
03	REGOLAZIONE (SETTING)	Esempio: regolazione 0,7 mm (Example: setting 0.7 mm) F 0,7
		Omettere se non richiesto (Omit if not required)
04	FORO SUL PIATTELLO (ORIFICE ON FLAT POPPET)	Esempio: foro 1,5 mm (Example: hole 1.5 mm) P 1,5
		*Omettere se non richiesto (Omit if not required)

*Se ommesso questo valore, le valvole vengono fornite senza alcuna taratura di fabbrica e i dadi non sono serrati. Per garantire il loro corretto funzionamento è necessario che venga eseguito il settaggio da parte dell'installatore finale.

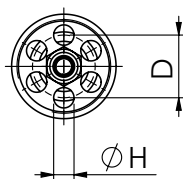
If omitted this value, the valves are supplied without factory setting and nuts are not tightened. For the correct operating it is needed a calibration of the valve made by final installer.

Regolazione F a richiesta
F setting on request

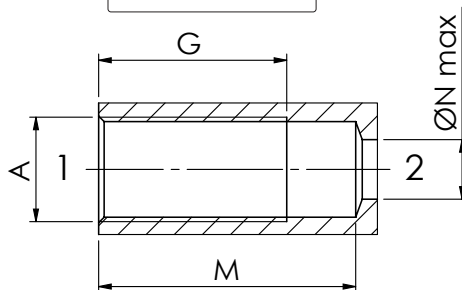
Foro su piattello a richiesta
Orifice on flat poppet
on request



[mm]
[Inches]

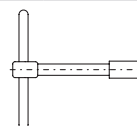


CAVITÀ (CAVITY)



DATI TECNICI / TECHNICAL DATA

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



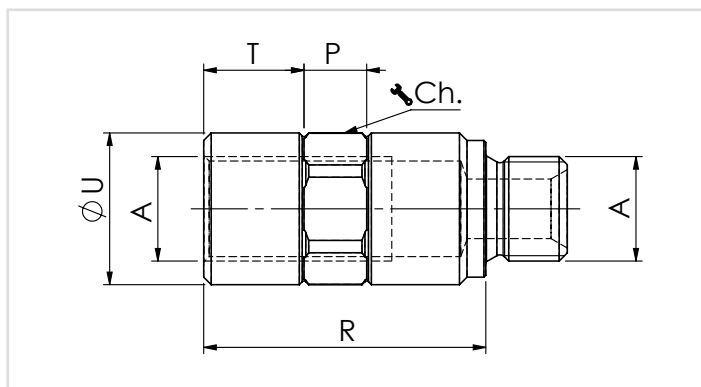
CHIAVE
TOOL

Dimensione/Dimensions

Tipo chiave Tool's Type	Tipo Type	Peso/Weight kg-lbt
61700001	VUBA140	0,12 (0.27)
61700002	VUBA380	0,13 (0.29)
61700003	VUBA120	0,15 (0.33)
61700004	VUBA340	0,18 (0.40)

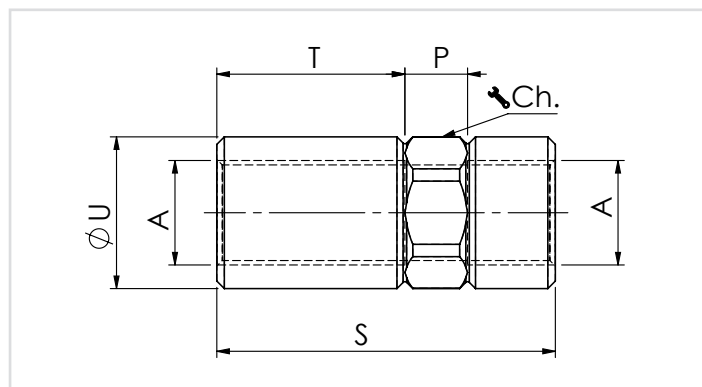
CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	A	PORTATA MAX MAX FLOW l/min-USgpm	PRESSIONE MAX MAX PRESSURE bar-PSI	B	C	D	G	H	L	M	N	COPPIA DI SERRAGGIO TIGHTENING TORQUE Nm-lbt ft	PESO APPROX APPROX WEIGHT kg-lbt
VUBA140	BSPP 1/4	25 (6.6)	350 (5075)	8,2 (0.32)	10,4 (0.41)	8 (0.31)	25 (0.98)	2,5 (0.10)	19 (0.75)	35 (1.38)	7 (0.28)	2 (1.5)	0,008 (0.017)
VUBA380	BSPP 3/8	50 (13.2)		11 (0.43)	12,7 (0.50)	10 (0.39)	30 (1.18)	3,25 (0.13)	23 (0.90)	41 (1.61)	9,5 (0.37)	3 (2.5)	0,014 (0.030)
VUBA120	BSPP 1/2	80 (21.1)		13 (0.51)	15 (0.59)	11,5 (0.45)	33 (1.30)	4 (0.16)	29 (1.14)	46 (1.81)	12 (0.47)	4 (3)	0,025 (0.055)
VUBA340	BSPP 3/4	150 (39.6)		18 (0.71)	18 (0.71)	14,5 (0.57)	42 (1.65)	5,2 (0.20)	34 (1.34)	55 (2.17)	16 (0.63)	10 (7.5)	0,054 (0.12)
VUBA100	BSPP 1	180 (47.5)		20 (0.79)	26 (1.02)	19 (0.75)	48 (1.89)	7 (0.28)	40 (1.57)	63 (2.48)	22 (0.87)	12 (9)	0,1 (0.22)



COLONNETTE - HOUSINGS M/F

TIPO TYPE	A	R	P	T	U	Ch.	PESO APPROX APPROX WEIGHT kg-lbt
61100087	BSPP 1/4	39 (1.53)	10 (0.39)	13 (0.51)	20.5 (0.80)	19	0.07 (0.16)
61100088	BSPP 3/8	45 (1.77)	10 (0.39)	16 (0.63)	24.5 (0.96)	22	0.10 (0.22)
61100089	BSPP 1/2	52 (2.05)	10 (0.39)	19 (0.75)	29.5 (1.16)	27	0.17 (0.37)
61100090	BSPP 3/4	61 (2.40)	12 (0.47)	23 (0.90)	35.5 (1.32)	32	0.26 (0.57)
61100091	BSPP 1	67 (2.63)	15 (0.59)	25.5 (1)	44.5 (1.75)	41	0.4 (0.88)

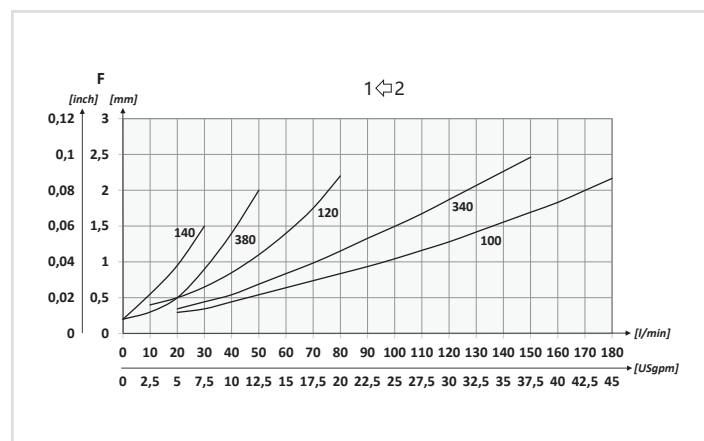


COLONNETTE - HOUSINGS F/F

TIPO TYPE	A	S	P	T	U	Ch.	PESO APPROX APPROX WEIGHT kg-lbt
61100092	BSPP 1/4	48 (1.89)	10 (0.39)	13 (0.51)	20.5 (0.80)	19	0.09 (0.20)
61100093	BSPP 3/8	54 (2.13)	10 (0.39)	30 (1.18)	24.2 (0.95)	22	0.11 (0.24)
61100094	BSPP 1/2	73 (2.87)	10 (0.39)	46.5 (1.83)	29.2 (1.14)	27	0.20 (0.44)
61100095	BSPP 3/4	74 (2.91)	12 (0.47)	44 (1.73)	35.5 (1.32)	32	0.27 (0.59)

TARATURA SETTING mm	Portata (l/min) - Flow rate (Usgpm) Tolleranza ± 10% - Tolerance ± 10%				
	VUBA140	VUBA380	VUBA120	VUBA340	VUBA100
0	0	0	0	0	0
0,1	3,0 (0,8)	3,0 (0,8)	4,0 (1,1)	9,0 (2,4)	3,5 (0,9)
0,2	6,0 (1,6)	6,0 (1,6)	8,0 (2,1)	18,0 (4,8)	7,0 (1,8)
0,3	9,3 (2,5)	10,0 (2,6)	12,7 (3,3)	25,3 (6,7)	12,0 (3,2)
0,4	12,7 (3,3)	14,0 (3,7)	17,3 (4,6)	32,7 (8,6)	17,0 (4,5)
0,5	16,0 (4,2)	18,0 (4,8)	22,0 (5,8)	40,0 (10,6)	22,0 (5,8)
0,6	17,0 (4,5)	20,5 (5,4)	26,5 (7,0)	48,5 (12,8)	27,5 (7,3)
0,7	18,0 (4,8)	23,0 (6,1)	31,0 (8,2)	57,0 (15,0)	33,0 (8,7)
0,8	19,2 (5,1)	25,0 (6,6)	34,0 (9,0)	61,7 (16,3)	39,0 (10,3)
0,9	20,3 (5,4)	27,0 (7,1)	37,0 (9,8)	66,3 (17,5)	45,0 (11,9)
1	21,5 (5,7)	29,0 (7,7)	40,0 (10,6)	71,0 (18,7)	51,0 (13,5)
1,1	22,3 (5,9)	30,0 (7,9)	42,5 (11,2)	77,0 (20,3)	53,5 (14,1)
1,2	23,0 (6,1)	31,0 (8,2)	45,0 (11,9)	83,0 (21,9)	56,0 (14,8)
1,3	23,7 (6,2)	32,3 (8,5)	47,7 (12,6)	88,7 (23,4)	60,7 (16,0)
1,4	24,3 (6,4)	33,7 (8,9)	50,3 (13,3)	94,3 (24,9)	65,3 (17,2)
1,5	25,0 (6,6)	35,0 (9,2)	53,0 (14,0)	100,0 (26,4)	70,0 (18,5)
1,6	25,4 (6,7)	36,4 (9,6)	55,8 (14,7)	106,0 (28,0)	72,4 (19,1)
1,7	26,0 (6,9)	37,0 (9,8)	58,6 (15,5)	111,0 (29,3)	74,8 (19,7)
1,8	26,3 (7,0)	38,7 (10,2)	61,4 (16,2)	116,0 (30,6)	77,2 (20,4)
1,9	26,7 (7,0)	40,3 (10,6)	64,2 (16,9)	120,0 (31,7)	79,6 (21,0)
2	27,0 (7,1)	42,0 (11,1)	67,0 (17,7)	124,0 (32,7)	82,0 (21,6)

REGOLAZIONE "F" / SETTING "F"

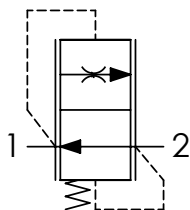


VCC140 VALVOLE CONTROLLO DISCESA FISSE COMPENSATE

FIXED FLOW CONTROL VALVES - PRESSURE COMPENSATED



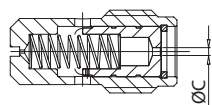
SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



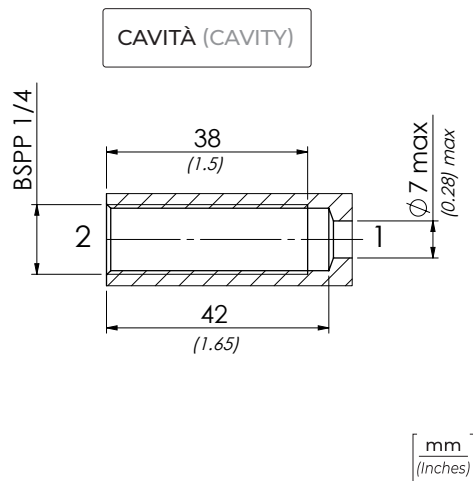
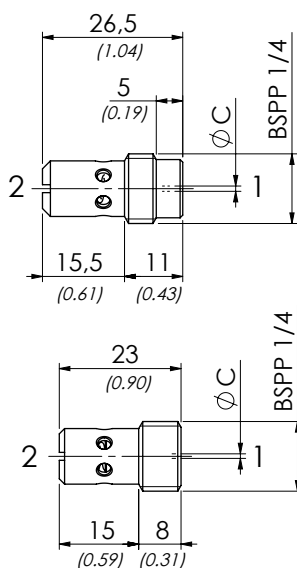
TIPO TYPE	PORTATA MAX MAX FLOW l/min-USgpm	PRESSIONE MAX MAX PRESSURE bar-PSI	COPPIA DI SERRAGGIO TIGHTENING TORQUE Nm-lbf ft	PESO APPROX APPROX WEIGHT kg-lbf
VCC140	15 (3.96)	250 (3625)	4 (3)	0,014 (0.031)

DATI TECNICI / TECHNICAL DATA

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



TIPO (TYPE)	Ø C
VCC1401	1 (0.04)
VCC1402	1,2 (0.05)
VCC1403	1,5 (0.06)
VCC1404	1,7 (0.07)
VCC1405	1,9 (0.07)
VCC1406	2,1 (0.08)
VCC1407	2,3 (0.09)
VCC1408	2,4 (0.09)
VCC1409	2,7 (0.11)
VCC14010	2,8 (0.11)
VCC14011	3,1 (0.12)
VCC14012	3,3 (0.13)
VCC14015	5 (0.20)

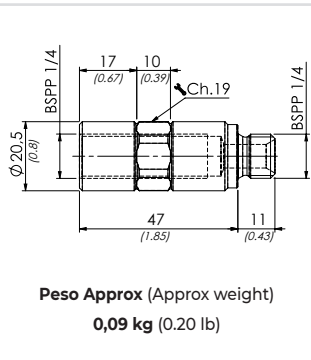


CODICE ORDINAZIONE ORDERING CODE

01	02	03
VCC140		

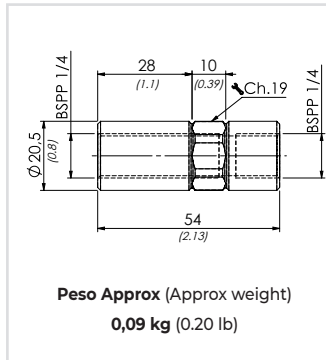
01	VALVOLE CONTROLLO DISCESA FISSE COMPENSATE (FIXED FLOW CONTROL VALVES - PRESSURE COMPENSATED)	VCC140
02	PORTATA CONTROLLATA A 100 BAR ± 10% (CONTROLLED FLOW AT 100 BAR ± 10 %)	1 l/min (0.26 USgpm) 1
		2 l/min (0.53 USgpm) 2
		3 l/min (0.79 USgpm) 3
		4 l/min (1.06 USgpm) 4
		5 l/min (1.32 USgpm) 5
		6 l/min (1.58 USgpm) 6
		7 l/min (1.85 USgpm) 7
		8 l/min (2.11 USgpm) 8
		9 l/min (2.38 USgpm) 9
		10 l/min (2.64 USgpm) 10
		11 l/min (2.90 USgpm) 11
		12 l/min (3.17 USgpm) 12
		15 l/min (3.96 USgpm) 15
03	VERSIONE (VERSION)	L = 26,5 (1.02)
		L = 23 (0.90) C

TIPO / TYPE 61100160



Peso Approx (Approx weight)
0,09 kg (0.20 lb)

TIPO / TYPE 61100159



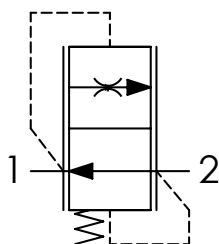
Peso Approx (Approx weight)
0,09 kg (0.20 lb)

VCC380

VALVOLE CONTROLLO DISCESA FISSE COMPENSATE FIXED FLOW CONTROL VALVES - PRESSURE COMPENSATED



SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



DATI TECNICI / TECHNICAL DATA

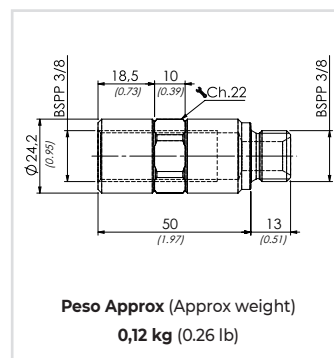
Olio idraulico - Mineral oil	ISO 6743/4 (DIN 51524)
Viscosità olio - Oil viscosity	15-250 mm²/s (15 to 250 cSt)
Classe di contaminazione max con filtro Max contamination index with filter	ISO 4406:1999 Classe 19/17/14
Temperatura dell'olio - Oil temperature	-20°C +80°C -4°F +176°F
Temperatura ambiente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

CODICE ORDINAZIONE
ORDERING CODE

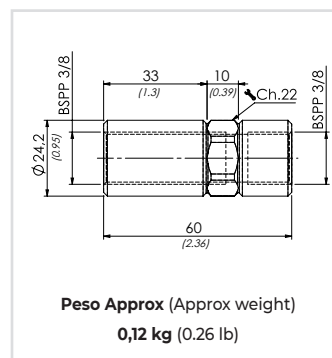
01	02
VCC380	

01	VALVOLE CONTROLLO DISCESA FISSE COMPENSATE (FIXED FLOW CONTROL VALVES - PRESSURE COMPENSATED)	VCC380
02	PORTATA CONTROLLATA A 100 BAR ± 10% (CONTROLLED FLOW AT 100 BAR ± 10 %)	1 l/min (0.26 USgpm) 1
		2 l/min (0.53 USgpm) 2
		3 l/min (0.79 USgpm) 3
		4 l/min (1.06 USgpm) 4
		5 l/min (1.32 USgpm) 5
		6 l/min (1.58 USgpm) 6
		7 l/min (1.89 USgpm) 7
		8 l/min (2.11 USgpm) 8
		9 l/min (2.38 USgpm) 9
		10 l/min (2.64 USgpm) 10
		11 l/min (2.90 USgpm) 11
		12 l/min (3.17 USgpm) 12
		16 l/min (4.22 USgpm) 16
		18 l/min (4.75 USgpm) 18

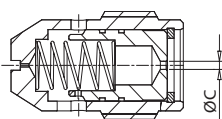
TIPO / TYPE
61100162



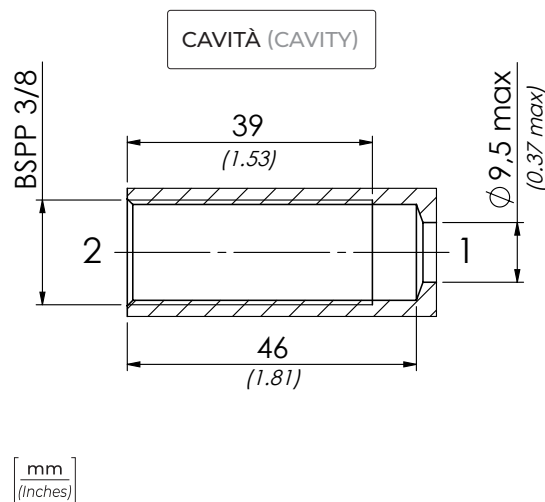
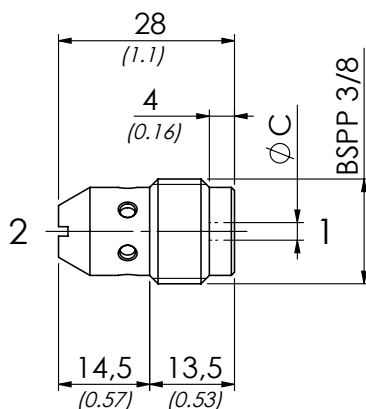
TIPO / TYPE
61100161



TIPO TYPE	PORTATA MAX MAX FLOW l/min-USgpm	PRESSIONE MAX MAX PRESSURE bar-PSI	COPPIA DI SERRAGGIO TIGHTENING TORQUE Nm-lbt ft	PESO APPROX APPROX WEIGHT kg-lbt
VCC380	18 (4.8)	250 (3625)	6 (4.5)	0,024 (0.053)



TIPO (TYPE)	Ø C
VCC3801	0,6 (0.02)
VCC3802	1,4 (0.06)
VCC3803	1,7 (0.07)
VCC3804	2 (0.08)
VCC3805	2,3 (0.09)
VCC3806	2,6 (0.10)
VCC3807	2,8 (0.11)
VCC3808	3,1 (0.12)
VCC3809	3,3 (0.13)
VCC38010	3,5 (0.14)
VCC38011	3,7 (0.15)
VCC38012	4 (0.16)
VCC38016	5 (0.12)
VCC38018	5,5 (0.22)

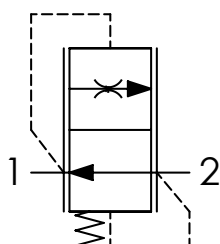


VSC120 VALVOLE CONTROLLO DISCESA FISSE COMPENSATE

FIXED FLOW CONTROL VALVES - PRESSURE COMPENSATED

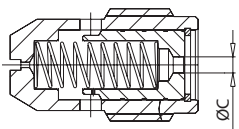


SCHEMA IDRAULICO / HYDRAULIC CIRCUIT

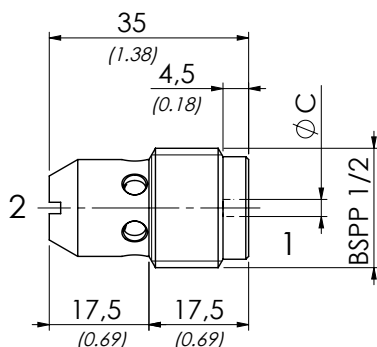


DATI TECNICI / TECHNICAL DATA

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

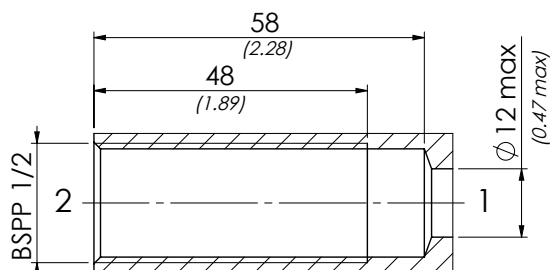


TIPO (TYPE)	Ø C
VSC1209	2 (0.08)
VSC12012	2,5 (0.10)
VSC12015	3 (0.12)
VSC12017	3,2 (0.13)
VSC12021	3,5 (0.14)
VSC12025	4 (0.16)
VSC12027	4,2 (0.17)
VSC12032	4,5 (0.18)
VSC12035	5 (0.20)
VSC12040	5,5 (0.22)
VSC12047	6 (0.24)



mm
(Inches)

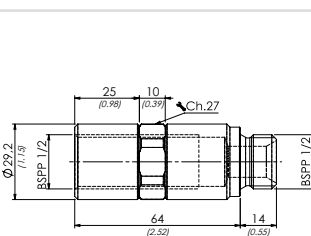
CAVITÀ (CAVITY)



	01	02
CODICE ORDINAZIONE ORDERING CODE	VSC120	

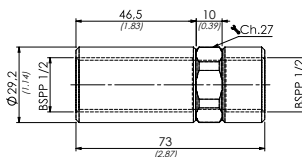
01	VALVOLE CONTROLLO DISCESA FISSE COMPENSATE (FIXED FLOW CONTROL VALVES - PRESSURE COMPENSATED)		VSC120
02	PORTATA CONTROLLATA A 100 BAR ± 10% (CONTROLLED FLOW AT 100 BAR ± 10 %)	9 l/min (2.38 USgpm)	9
		12 l/min (3.17 USgpm)	12
		15 l/min (3.96 USgpm)	15
		17 l/min (4.49 USgpm)	17
		21 l/min (5.54 USgpm)	21
		25 l/min (6.60 USgpm)	25
		27 l/min (7.1 USgpm)	27
		32 l/min (8.45 USgpm)	32
		35 l/min (9.24 USgpm)	35
		40 l/min (10.56 USgpm)	40
		47 l/min (12.4 USgpm)	47

TIPO / TYPE 61100033



Peso Approx (Approx weight)
0,21 kg (0.46 lb)

TIPO / TYPE 61100094



Peso Approx (Approx weight)
0,21 kg (0.46 lb)

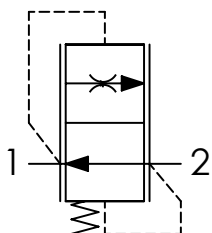
TIPO TYPE	PORTATA MAX MAX FLOW l/min-USgpm	PRESSIONE MAX MAX PRESSURE bar-PSI	COPPIA DI SERRAGGIO TIGHTENING TORQUE Nm-lbt ft	PESO APPROX APPROX WEIGHT kg-lbt
VCC120	47 (12.4)	250 (3625)	10 (7.5)	0,050 (0.11)

VSCR6 VALVOLE CONTROLLO DISCESA FISSE COMPENSATE

FIXED FLOW CONTROL VALVES - PRESSURE COMPENSATED

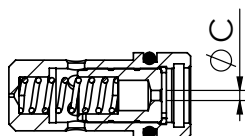


SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



DATI TECNICI / TECHNICAL DATA

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



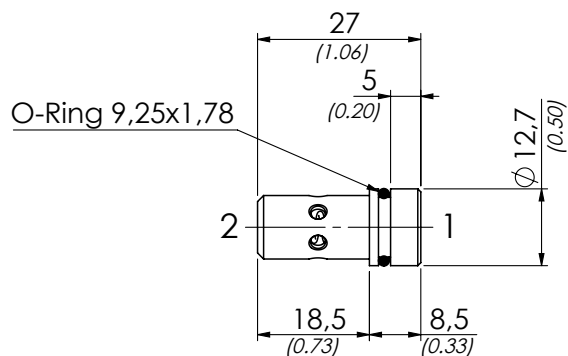
TIPO (TYPE)	Ø C
VSCR61	1 (0.04)
VSCR62	1,2 (0.05)
VSCR63	1,5 (0.06)
VSCR64	1,7 (0.07)
VSCR65	1,9 (0.07)
VSCR66	2,1 (0.08)
VSCR67	2,3 (0.09)
VSCR68	2,4 (0.09)
VSCR69	2,7 (0.11)
VSCR610	2,8 (0.11)
VSCR611	3,1 (0.12)
VSCR612	3,3 (0.13)

CODICE ORDINAZIONE
ORDERING CODE

01
VSCR6

02

01	VALVOLE CONTROLLO DISCESA FISSE COMPENSATE (FIXED FLOW CONTROL VALVES - PRESSURE COMPENSATED)	VSCR6
02	PORTATA CONTROLLATA A 100 BAR ± 10% (CONTROLLED FLOW AT 100 BAR ± 10 %)	1 l/min (0.26 USgpm) 1
		2 l/min (0.53 USgpm) 2
		3 l/min (0.79 USgpm) 3
		4 l/min (1.06 USgpm) 4
		5 l/min (1.32 USgpm) 5
		6 l/min (1.58 USgpm) 6
		7 l/min (1.85 USgpm) 7
		8 l/min (2.11 USgpm) 8
		9 l/min (2.38 USgpm) 9
		10 l/min (2.64 USgpm) 10
		11 l/min (2.90 USgpm) 11
		12 l/min (3.17 USgpm) 12



[mm
(Inches)]

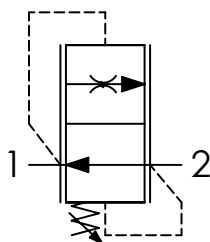
TIPO TYPE	PORTATA MAX MAX FLOW l/min-USgpm	PRESSIONE MAX MAX PRESSURE bar-PSI	PESO APPROX APPROX WEIGHT kg-lbt
VSCR6	12 (3.20)	250 (3625)	0,012 (0.026)

VRD VALVOLE CONTROLLO DISCESA REGOLABILI COMPENSATE

ADJUSTABLE FLOW CONTROL VALVES - PRESSURE COMPENSATED



SCHEMA IDRAULICO / HYDRAULIC CIRCUIT



DATI TECNICI / TECHNICAL DATA

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

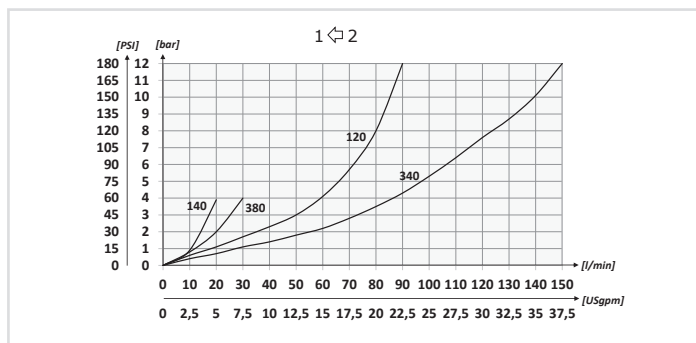
01	02	03	04
CODICE ORDINAZIONE ORDERING CODE	VRD		

01	VALVOLE CONTROLLO DISCESA REGOLABILI COMPENSATE (ADJUSTABLE FLOW CONTROL VALVES - PRESSURE COMPENSATED)						VRD	
02	DIMENSIONE (SIZE)	BSPP 1/4					140	
		BSPP 3/8					380	
		BSPP 1/2					120	
		BSPP 3/4					340	
03	FLUSSO CONTROLLATO A 50 BAR (CONTROLLED FLOW AT 50 BAR)	A	B	C	D	E	F	
		l/min-USgpm						
		1,4/4,2 (0,37/1,11)	2,4/7,8 (0,63/2,06)	3,8/9 (1/2,38)	6/13,4 (1,58/3,54)	8,6/17,5 (2,27/4,62)	12,2/24 (3,22/6,34)	VRD140
		1,7/3,7 (0,45/0,98)	3/5,5 (0,79/1,45)	5/10,5 (1,32/2,77)	10/18 (2,64/4,75)	16,5/25,4 (4,36/6,71)	19,5/33 (5,15/8,71)	VRD380
		15,5/23,8 (4,09/6,28)	19,7/32,5 (5,20/8,58)	22,8/38,4 (6,02/10,14)	32/51,4 (8,45/13,57)	40,5/71,6 (10,69/18,9)	-	VRD120
		39,8/57,1 (10,51/15,07)	45,2/68,2 (11,93/18)	63,2/83,3 (16,68/21,99)	67/107 (17,69/28,25)	105/151 (27,72/39,86)	-	VRD340
04	REGOLAZIONE (SETTING)	ESEMPIO: REGOLAZIONE 15 MM (EXAMPLE: SETTING 15 MM) F 15						F__
		(TOLLERANZA IN PORTATA ± 10%) (TOLERANCE OF SETTING FLOW RATE ± 10%)						
		*OMESSO SE NON RICHIESTO (OMITTED IF NOT REQUIRED)						

*Se ommesso questo valore, le valvole vengono fornite senza alcuna taratura di fabbrica e i dadi non sono serrati. Per garantire il loro corretto funzionamento è necessario che venga eseguito il settaggio da parte dell'installatore finale.

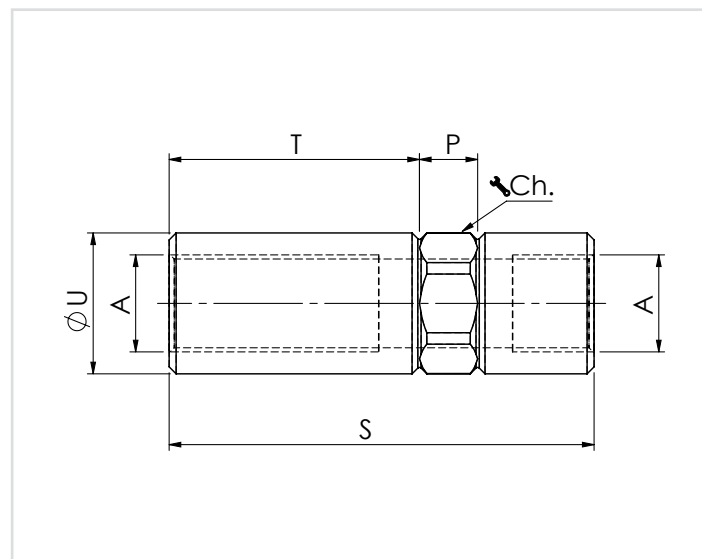
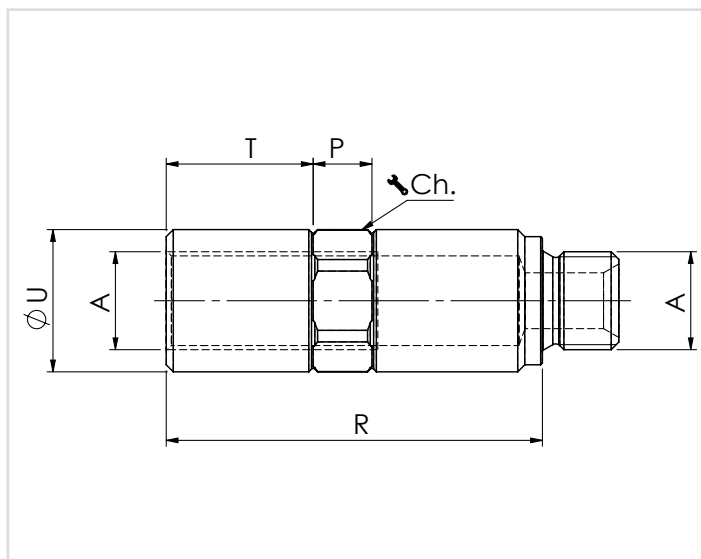
If omitted this value, the valves are supplied without factory setting and nuts are not tightened. For the correct operating it is needed a calibration of the valve made by final installer.

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	T	G	L	M	R	S	PESO APPROX APPROX WEIGHT kg-lbt	COPPIA DI SERRAGGIO TIGHTENING TORQUE Nm-lbt ft
VRD140	BSPP 1/4	20 (5.3)	300 (4350)	10 (0.39)	33 (1.30)	53 (2.09)	6 (0.24)	7 (0.28)	13,5 (0.53)	39 (1.54)	10 (0.39)	57 (2.24)	66 (2.60)	0,013 (0.029)	6 (4.5)
VRD380	BSPP 3/8	35 (9.2)		12,5 (0.49)	36 (1.42)	60 (2.63)	5 (0.20)	9,5 (0.37)	15,5 (0.61)	45 (1.77)	14 (0.55)	64 (2.52)	73 (2.87)	0,024 (0.053)	8 (6)
VRD120	BSPP 1/2	65 (17.2)		16 (0.63)	39 (1.54)	63 (2.48)	7 (0.28)	12 (0.47)	16 (0.63)	51 (2.01)	18 (0.71)	69 (2.72)	81 (3.19)	0,037 (0.082)	12 (9)
VRD340	BSPP 3/4	150 (39.6)		20 (0.79)	50 (1.97)	81 (3.19)	10 (0.39)	16 (0.63)	21 (0.83)	62 (2.44)	23 (0.91)	87 (3.43)	99 (3.90)	0,079 (0.18)	15 (11.25)



COLONNETTE - HOUSING M/F

TIPO TYPE	A	R	P	T	U	Ch.	PESO APPROX APPROX WEIGHT kg-lbt
61100057	BSPP 1/4	57 (2.24)	10 (0.39)	22 (0.87)	20.5 (0.81)	19	0.11 (0.16)
61100058	BSPP 3/8	64 (2.52)	10 (0.39)	25 (0.98)	24.5 (0.96)	22	0.14 (0.20)
61100059	BSPP 1/2	69 (2.71)	10 (0.39)	28 (1.10)	29.5 (1.16)	27	0.24 (0.30)
61100060	BSPP 3/4	87 (3.42)	12 (0.47)	36 (1.42)	35.5 (1.40)	32	0.34 (0.48)

COLONNETTE - HOUSING F/F

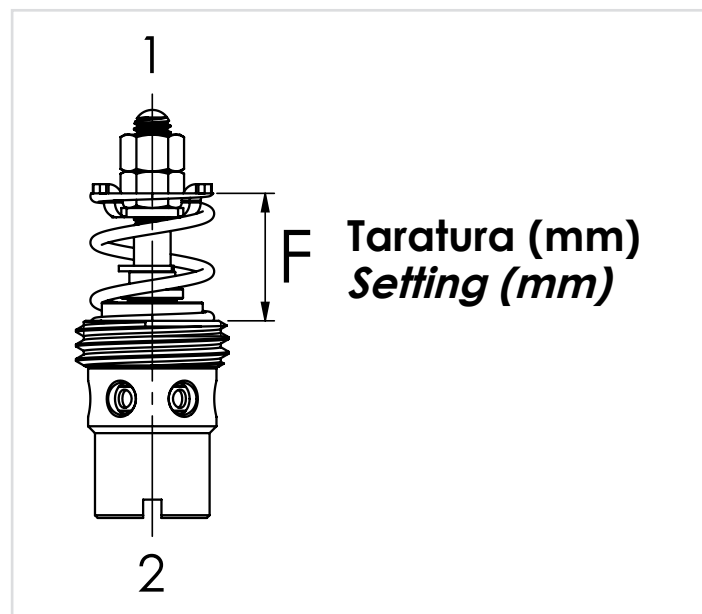
TIPO TYPE	A	S	P	T	U	Ch.	PESO APPROX APPROX WEIGHT kg-lbt
61100051	BSPP 1/4	66 (2.60)	10 (0.39)	38 (1.50)	20.5 (0.81)	19	0.11 (0.16)
61100052	BSPP 3/8	73 (2.87)	10 (0.39)	43 (1.69)	24.5 (0.96)	22	0.12 (0.20)
61100053	BSPP 1/2	81 (3.19)	10 (0.39)	50.5 (1.99)	29.5 (1.16)	27	0.20 (0.33)
61100054	BSPP 3/4	99 (3.90)	12 (0.47)	57 (2.24)	35.5 (1.40)	32	0.29 (0.50)

TARATURA SETTING mm	F _—	VRD140 Portata (l/min) - Flow rate (Usgpm)					
		A	B	C	D	E	F
10		1,4 (0,37)	2,4 (0,63)	3,8 (1,00)	6 (1,58)	8,6 (2,27)	12,2 (3,22)
9		1,9 (0,50)	3,1 (0,82)	4,7 (1,24)	7,6 (2,01)	10,3 (2,72)	15,4 (4,07)
8		2,1 (0,55)	3,8 (1,00)	5,6 (1,48)	8,9 (2,35)	12 (3,17)	18,6 (4,91)
7		3,3 (0,87)	5,9 (1,56)	7,2 (1,90)	10,6 (2,80)	13,1 (3,46)	18,8 (4,96)
6		4,2 (1,11)	7,8 (2,06)	9 (2,38)	13,4 (3,54)	17,5 (4,62)	24 (6,34)

TARATURA SETTING mm	F _—	VRD340 Portata (l/min) - Flow rate (Usgpm)				
		A	B	C	D	E
23		39,8 (10,51)	45,2 (11,93)	63,2 (16,68)	67 (17,69)	105 (27,72)
22		42,1 (11,11)	48 (12,67)	65,7 (17,34)	69,7 (18,40)	112,5 ((29,70)
21		45,1 (11,91)	51,8 (13,68)	68 (17,95)	76,6 (20,22)	119 (31,42)
20		47 (12,41)	54,9 (14,49)	70,7 (18,66)	81,9 (21,62)	126,2 (33,32)
19		50,2 (13,25)	58,1 (15,34)	73,4 (19,38)	90,1 (23,79)	133,7 (35,30)
18		51,8 (13,68)	62,3 (16,45)	77,1 (20,35)	95 (25,08)	140,2 (37,01)
17		54,5 (14,39)	64,8 (17,11)	80,2 (21,17)	101 (26,66)	145,4 (38,39)
16		57,1 (15,07)	68,2 (18,00)	83,3 (21,99)	107 (28,25)	151 (39,86)

TARATURA SETTING mm	F _—	VRD380 Portata (l/min) - Flow rate (Usgpm)					
		A	B	C	D	E	F
15		1,7 (0,45)	3 (0,79)	5 (1,32)	10 (2,64)	16,5 (4,36)	19,5 (5,15)
14		2,3 (0,61)	3,8 (1,00)	6,2 (1,64)	13 (3,43)	20 (5,28)	23,4 (6,18)
13		2,6 (0,69)	4,7 (1,24)	8,2 (2,16)	15,6 (4,12)	22 (5,81)	26,9 (7,10)
12		3 (0,79)	5,2 (1,37)	9,4 (2,48)	16,6 (4,38)	23,5 (6,20)	29,8 (7,87)
11		3,7 (0,98)	5,5 (1,45)	10,5 (2,77)	18 (4,75)	25,4 (6,71)	33 (8,71)

TARATURA SETTING mm	F _—	VRD120 Portata (l/min) - Flow rate (Usgpm)				
		A	B	C	D	E
20		15,5 (4,09)	19,7 (5,20)	22,8 (6,02)	32 (8,45)	40,5 (10,69)
19		17 (4,49)	21,7 (5,73)	25,8 (6,81)	35,4 (9,35)	44,3 (11,70)
18		18 (4,75)	24,3 (6,42)	28 (7,39)	38,7 (10,22)	49,3 (13,02)
17		19,4 (5,12)	26,2 (6,92)	31,2 (8,24)	41,8 (11,04)	54,8 (14,47)
16		20,4 (5,39)	28,1 (7,42)	33,5 (8,84)	44 (11,62)	59,2 (15,63)
15		21,6 (5,70)	29,2 (7,71)	34,2 (9,03)	46,2 (12,20)	62,9 (16,61)
14		22,6 (5,97)	31 (8,18)	36,1 (9,53)	49,2 (12,99)	67,7 (17,87)
13		23,8 (6,28)	32,5 (8,58)	38,4 (10,14)	51,4 (13,57)	71,6 (18,90)



VS VALVOLE UNIDIREZIONALI CON TRAFILAMENTO

CHECK VALVES WITH LEAKAGE

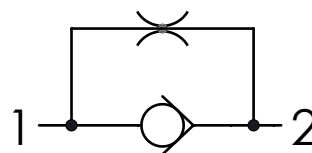


CODICE ORDINAZIONE ORDERING CODE

01	02	03
VS	380	

01	VALVOLE UNIDIREZIONALI CON TRAFILAMENTO (CHECK VALVES WITH LEAKAGE)		VS
02	DIMENSIONE (SIZE)	BSPP 3/8	380
03	TAGLI (GAPS)	2 tagli (2 gaps)	2T
		4 tagli (4 gaps)	4T

SCHEMA IDRAULICO / HYDRAULIC CIRCUIT

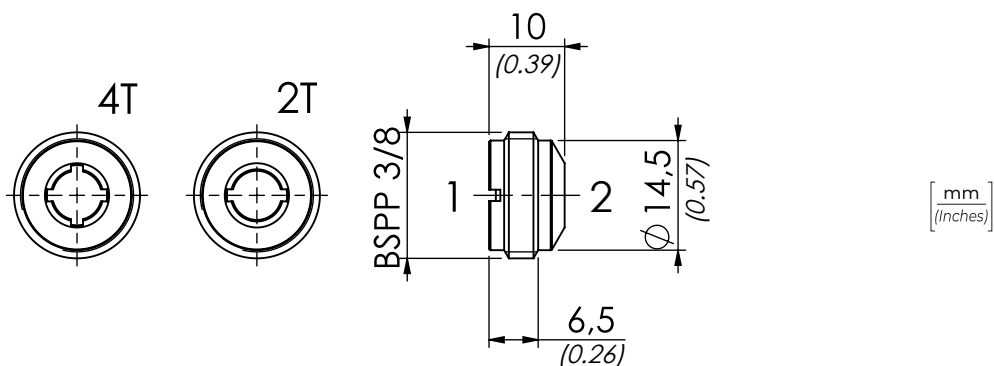
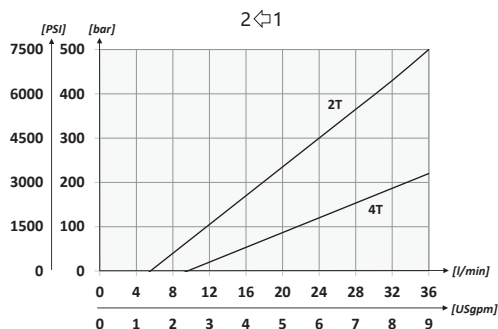


DATI TECNICI / TECHNICAL DATA

Olivo idraulico - Mineral oil	ISO 6743/4 (DIN 51524)
Viscosità olio - Oil viscosity	15-250 mm ² /s (15 to 250 cSt)
Classe di contaminazione max con filtro Max contamination index with filter	ISO 4406:1999 Classe 19/17/14
Temperatura dell'olio - Oil temperature	-20°C +80°C -4°F +176°F
Temperatura ambiente - Environment temperature	-20°C +50°C -4°F +122°F

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

PERFORMANCES



CARATTERISTICHE TECNICHE / TECHNICAL CHARACTERISTICS

TIPO TYPE	PORTATA MAX MAX FLOW l/min-USgpm	PRESSIONE MAX MAX PRESSURE bar-PSI	COPPIA DI SERRAGGIO TIGHTENING TORQUE Nm-lbt ft	PESO APPROX APPROX WEIGHT kg-lbt
VS380	35 (9.2)	500 (7250)	6 (4.5)	0,01 (0.022)