

**W** *Oleoweb*  
**HYDRAULIC VALVES AND COMPONENTS**



**INSERT VALVES**

VALVOLE AD INSERTO



Codice ordinazione / Ordering code

01	02
<b>VUI</b>	

01	Valvole unidirezionali a sfera (Check valves - ball type)	<b>VUI</b>	
02	Dimensione (Size)	BSPP 1/4	<b>140</b>
		BSPP 3/8	<b>380</b>
		BSPP 1/2	<b>120</b>
		BSPP 3/4	<b>340</b>

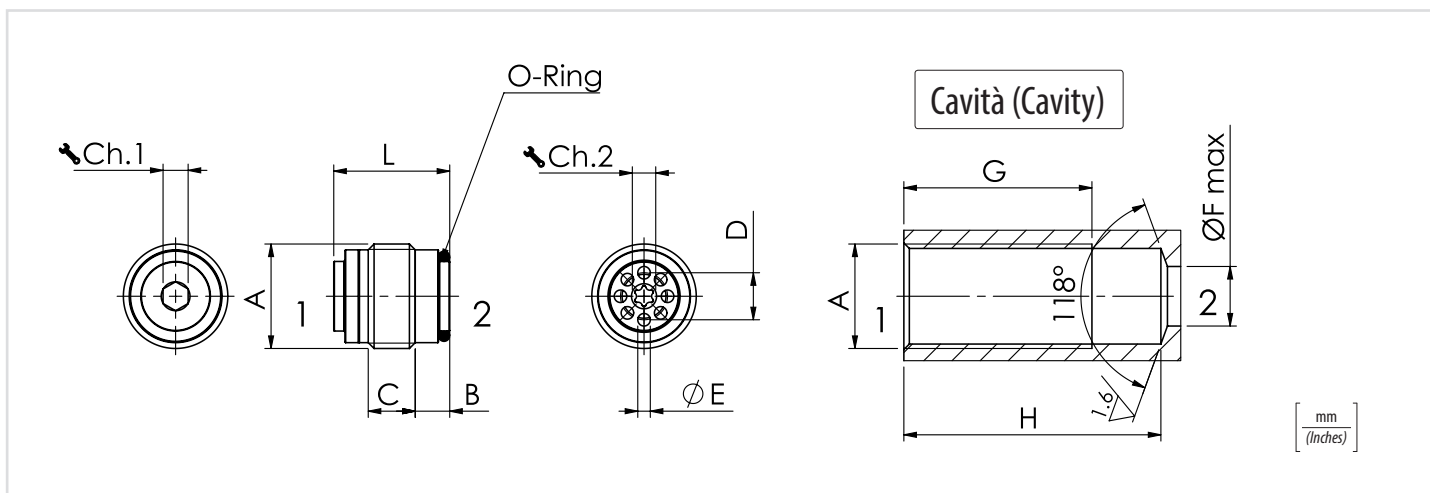
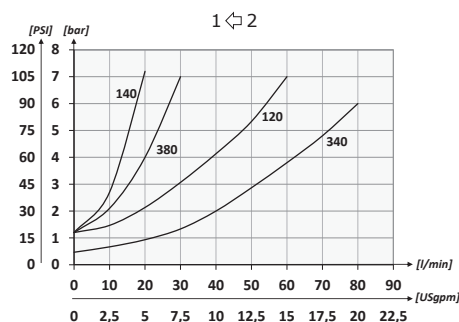
### Schema idraulico - Hydraulic circuit



### Dati tecnici - Technical data

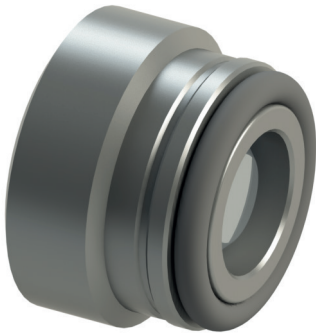
olio idraulico/Mineral oil	ISO 6743/4 (DIN 51524)	
Viscosità olio/Oil viscosity	15-250 mm <sup>2</sup> /s (15 to 250 cSt)	
Classe di contaminazione max con filtro Max contamination index with filter	ISO 4406:1999 Classe 19/17/14	
Temperatura dell'olio/Oil temperature	-20°C +80°C	-4°F +176°F
Temperatura 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 <sup>3</sup> /min - 5 gocce/min	0,015 in <sup>3</sup> /min - 5 drops/min
Pressione d'apertura/Cracking pressure	0,5 bar - 7.25 PSI	

### 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	Ch. 1	Ch. 2	Coppia di serraggio Tightening torque Nm/lbf ft	O-Ring	Peso approssimativo Approx weight kg/lb
<b>VUI140</b>	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)
<b>VUI380</b>	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)
<b>VUI120</b>	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)	22,5 (0.88)	6	5	10 (88)	14 x 1,78	0,033 (0.073)
<b>VUI340</b>	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)	28,5 (1.12)	8	8	20 (177)	18,72 x 2,62	0,07 (0.16)



Codice ordinazione Ordering code	01	02
	<b>VUC</b>	

01	Valvole unidirezionali ad otturatore (Check valves - poppet type)	<b>VUC</b>
02	Dimensione (Size)	BSP 1/4 <b>140</b>
		BSP 3/8 <b>380</b>

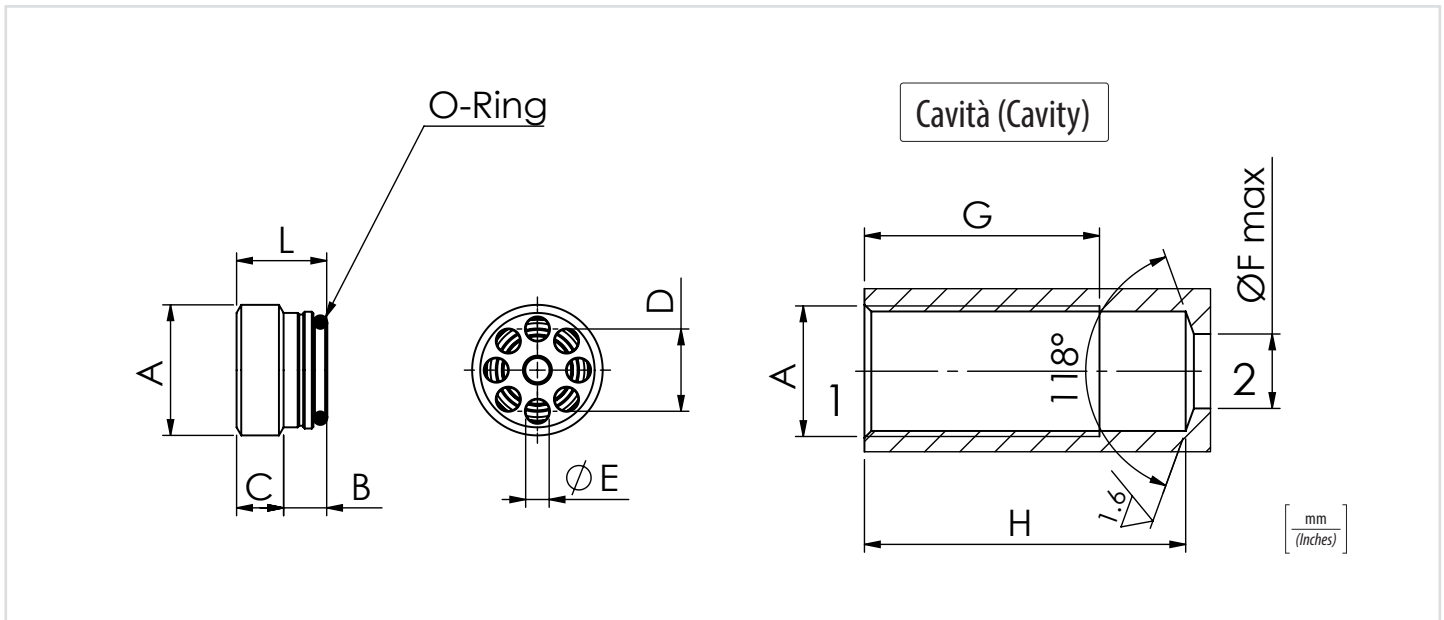
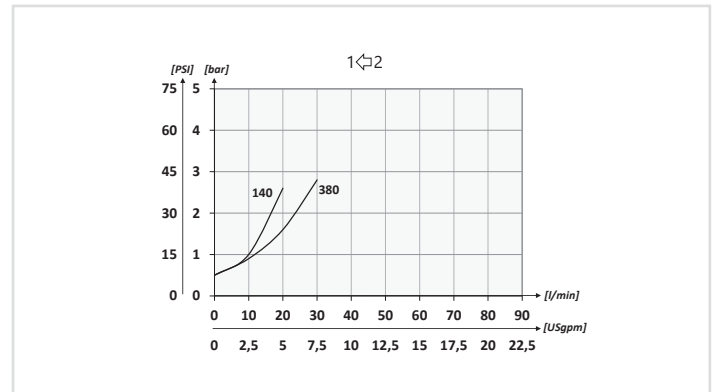
### Schema idraulico - Hydraulic circuit



### Dati tecnici - Technical data

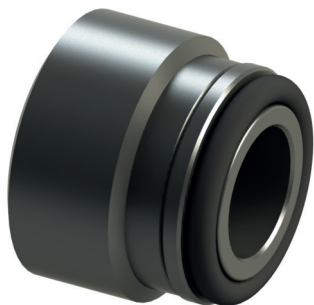
olio idraulico/Mineral oil	ISO 6743/4 (DIN 51524)	
Viscosità olio/Oil viscosity	15-250 mm <sup>2</sup> /s (15 to 250 cSt)	
Classe di contaminazione max con filtro Max contamination index with filter	ISO 4406:1999 Classe 19/17/14	
Temperatura dell'olio/Oil temperature	-20°C +80°C	-4°F + 176°F
Temperatura 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 <sup>3</sup> /min - 5 gocce/min 0,015 in <sup>3</sup> /min - 5 drops/min	
Pressione d'apertura/Cracking pressure	0,5 bar - 7.25 PSI	

### 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	Coppia di serraggio Tightening torque Nm/lbf ft	O-Ring	Peso approssimativo Approx weight kg/lb
<b>VUC140</b>	BSP 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)
<b>VUC380</b>	BSP 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	



Codice ordinazione / Ordering code

01	02
<b>VUP</b>	

<b>01</b>	Valvole unidirezionali a disco (Check valves - disk type)	<b>VUP</b>
<b>02</b>	Dimensione (Size)	BSPP 1/4
		BSPP 3/8
		BSPP 1/2
		BSPP 3/4

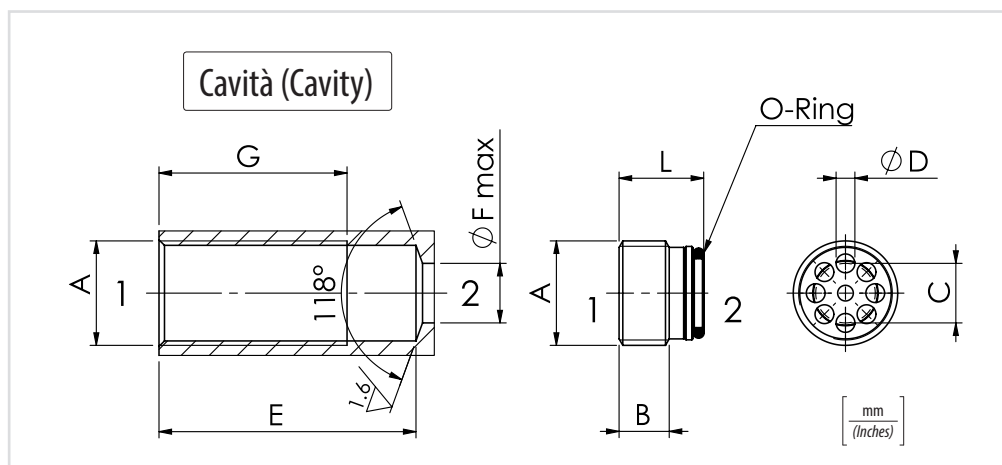
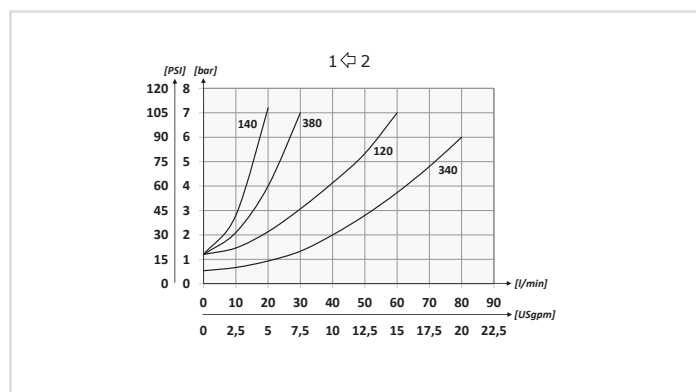
**Schema idraulico - Hydraulic circuit**



**Dati tecnici - Technical data**

Olio idraulico / Mineral oil	ISO 6743/4 (DIN 51524)
Viscosità olio / Oil viscosity	15-250 mm <sup>2</sup> /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 <sup>3</sup> /min - 5 gocce/min 0,015 in <sup>3</sup> /min - 5 drops/min
Pressione d'apertura / Cracking pressure	0,5 bar - 7.25 PSI

**Performances**



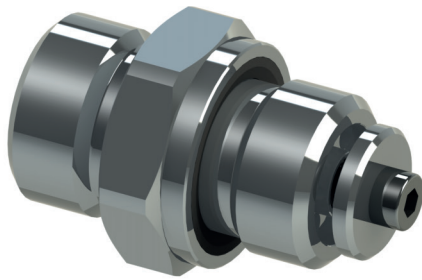
**Chiave - Tool**

Dimensione/Dimensions

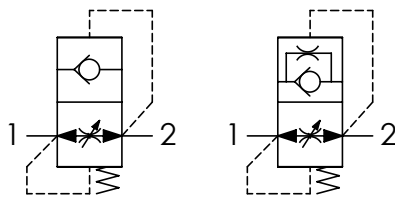
Tipo chiave / Tool's Type	Tipo / Type	Peso/kg / Weight/lb
61700005	VUP140	0,12 (0.27)
61700006	VUP380	0,13 (0.29)
61700003	VUP120	0,15 (0.33)
61700030	VUP340	0,18 (0.40)

**Caratteristiche tecniche - Technical characteristics**

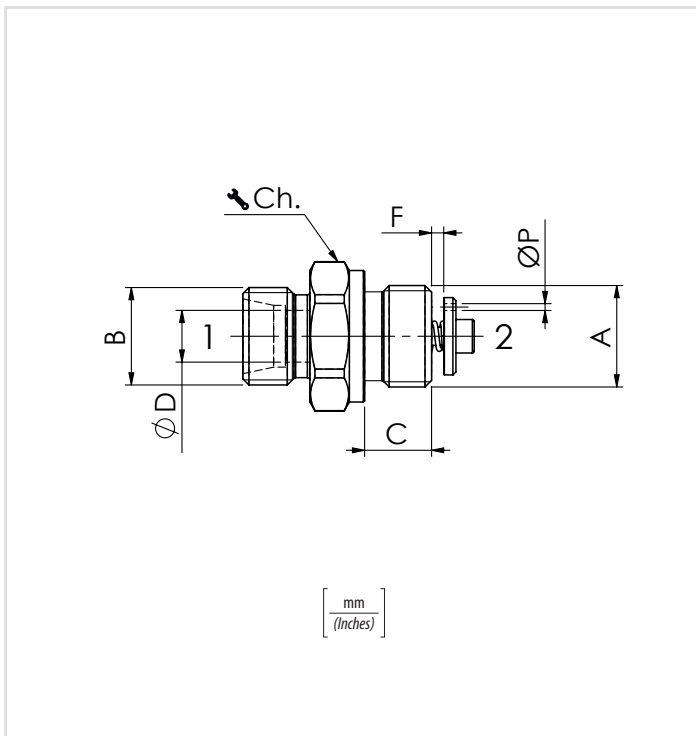
Tipo / Type	A	Portata max / Max flow / l/min-USgpm	Pressione max / Max pressure / bar/PSI	B	C	D	E	F	G	L	Coppia di serraggio / Tightening torque / Nm/lbf ft	O-Ring	Peso approssimativo / Approx weight / kg/lb
VUP140	BSPP 1/4	20 (5.3)	350 (5075)	6 (0.24)	7 (0.27)	2 (0.08)	24 (0.94)	7 (0.28)	22 (0.87)	10,2 (0.40)	6 (53)	9 x 1	0,006 (0.013)
VUP380	BSPP 3/8	35 (9.2)		8 (0.31)	9,5 (0.37)	3 (0.12)	29 (1.14)	9 (0.35)	27 (1.06)	13,5 (0.53)			
VUP120	BSPP 1/2	60 (15.9)		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)



### Schema idraulico - Hydraulic circuit



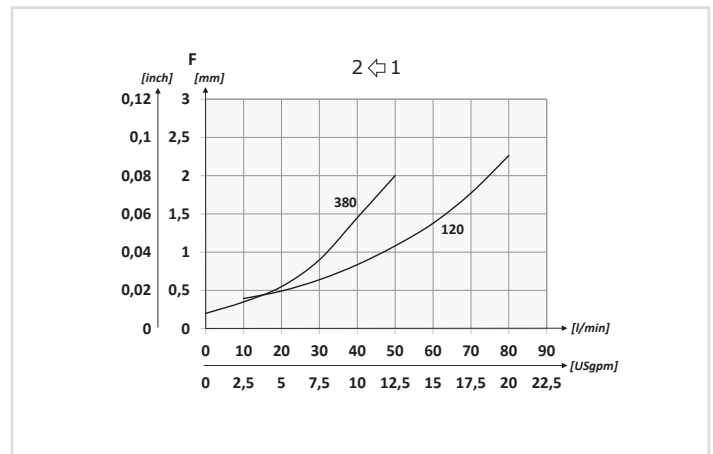
Con foro (With orifice)



Codice ordinazione Ordering code	01	02	03	04	05
	<b>VUBA</b>				

<b>01</b>	Valvole di sicurezza per tubazioni DIN (DIN hose burst valves)		<b>VUBA</b>
<b>02</b>	Dimensione (Size)	BSPP 3/8	<b>380</b>
		BSPP 1/2	<b>120</b>
<b>03</b>	Dimensione (Size)	<b>Tubo Ø 10</b> (For Ø 10 pipe)	<b>T10</b>
		<b>Tubo Ø 12</b> (For Ø 12 pipe)	<b>T12</b>
		<b>Tubo Ø 15</b> (For Ø 15 pipe, only for VUBA120)	<b>T15</b>
<b>04</b>	Regolazione (Setting)	Esempio: regolazione 0,7 mm (Example: setting 0.7 mm) <b>F 0,7</b>	<b>F...</b>
		Omettere se non richiesto (Omit if not required)	
<b>05</b>	Foro sul piattello (Orifice on flat poppet)	Esempio: foro 1,5 mm (Example: hole 1,5 mm) <b>P 1,5</b>	<b>P...</b>
		Omettere se non richiesto (Omit if not required)	

### Regolazione "F" - Setting "F"



### Dati tecnici - Technical data

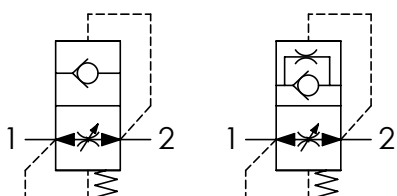
<b>Olio idraulico/Mineral oil</b>	ISO 6743/4 (DIN 51524)
<b>Viscosità olio/Oil viscosity</b>	15-250 mm <sup>2</sup> /s (15 to 250 cSt)
<b>Classe di contaminazione max con filtro</b> Max contamination index with filter	ISO 4406:1999 Classe 19/17/14
<b>Temperatura dell'olio/Oil temperature</b>	-20°C +80°C      -4°F + 176°F
<b>Temperatura ambiente/Ambient temperature</b>	-20°C +50°C      -4°F + 122°F
<b>È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)</b> It is necessary a filter use to protect the valve (advised filtration 15 µm)	
<b>Trafilamento massimo</b> Max leakage	<b>0,25 cm<sup>3</sup>/min - 5 gocce/min</b> 0,015 in <sup>3</sup> /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 approssimativo Approx weight kg/lb
<b>VUBA380T10</b>	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)
<b>VUBA380T12</b>				M18 x 1,5		12 (0.47)	22		40 (30)	
<b>VUBA380T15</b>				M22 x 1,5	15 (0.59)	24	70 (50)	0,060 (0.13)		
<b>VUBA120T15</b>	BSPP 1/2	80 (21.1)			13 (0.51)		27	85 (65)	70 (50)	0,077 (0.17)



Schema idraulico - Hydraulic circuit



Con foro (With orifice)

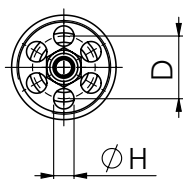
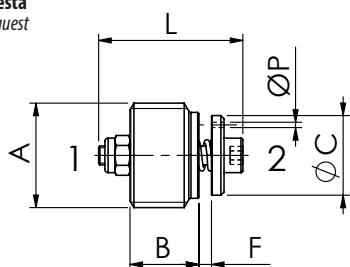
Codice ordinazione  
Ordering code

01	02	03	04
<b>VUBA</b>			

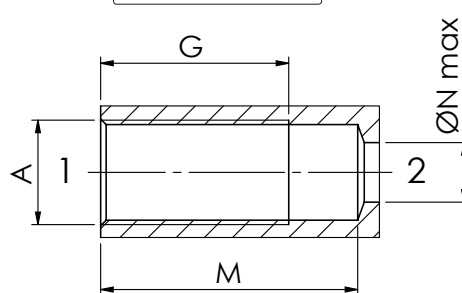
<b>01</b>	Valvole di sicurezza per tubazioni (Hose burst valves)	<b>VUBA</b>
<b>02</b>	Dimensione (Size)	BSPP 1/4 <b>140</b>
		BSPP 3/8 <b>380</b>
		BSPP 1/2 <b>120</b>
		BSPP 3/4 <b>340</b>
		BSPP 1 <b>100</b>
<b>03</b>	Regolazione (Setting)	Esempio: regolazione 0,7 mm (Example: setting 0.7 mm) <b>F 0,7</b>
		Omettere se non richiesto (Omit if not required)
<b>04</b>	Foro sul piattello (Orifice on flat poppet)	Esempio: foro 1,5 mm (Example: hole 1,5 mm) <b>P 1,5</b>
		Omettere se non richiesto (Omit if not required)

Regolazione F a richiesta  
F setting on request

Foro su piattello a richiesta  
Orifice on flat poppet on request

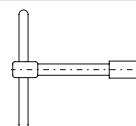


Cavità (Cavity)



Dati tecnici - Technical data

Olio idraulico/Mineral oil	ISO 6743/4 (DIN 51524)	
Viscosità olio/Oil viscosity	15-250 mm <sup>2</sup> /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 <sup>3</sup> /min - 5 gocce/min	0,015 in <sup>3</sup> /min - 5 drops/min



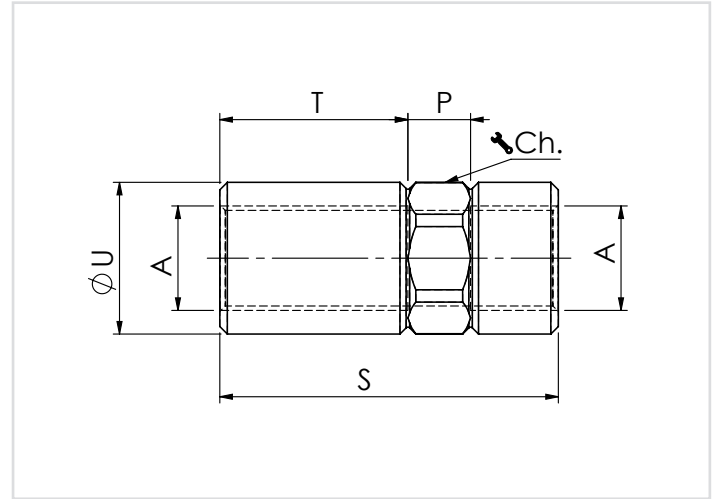
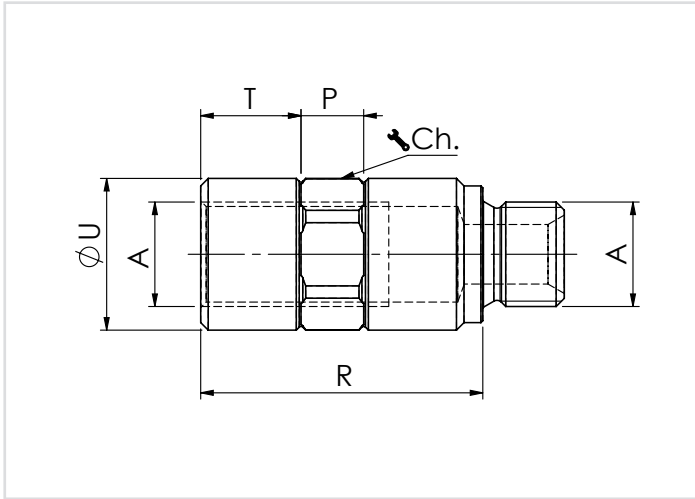
Chiave - Tool

Dimensione/Dimensions

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

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 approssimativo Approx weight kg/lb
<b>VUBA140</b>	<b>BSPP 1/4</b>	<b>25 (6.6)</b>	<b>350 (5075)</b>	<b>8,2 (0.32)</b>	<b>10,4 (0.41)</b>	<b>8 (0.31)</b>	<b>25 (0.98)</b>	<b>2,5 (0.10)</b>	<b>19 (0.75)</b>	<b>35 (1.38)</b>	<b>7 (0.28)</b>	<b>2 (1.5)</b>	<b>0,008 (0.017)</b>
<b>VUBA380</b>	<b>BSPP 3/8</b>	<b>50 (13.2)</b>		<b>11 (0.43)</b>	<b>12,7 (0.50)</b>	<b>10 (0.39)</b>	<b>30 (1.18)</b>	<b>3,25 (0.13)</b>	<b>23 (0.90)</b>	<b>41 (1.61)</b>	<b>9,5 (0.37)</b>	<b>3 (2.5)</b>	<b>0,014 (0.030)</b>
<b>VUBA120</b>	<b>BSPP 1/2</b>	<b>80 (21.1)</b>		<b>13 (0.51)</b>	<b>15 (0.59)</b>	<b>11,5 (0.45)</b>	<b>33 (1.30)</b>	<b>4 (0.16)</b>	<b>29 (1.14)</b>	<b>46 (1.81)</b>	<b>12 (0.47)</b>	<b>4 (3)</b>	<b>0,025 (0.055)</b>
<b>VUBA340</b>	<b>BSPP 3/4</b>	<b>150 (39.6)</b>		<b>18 (0.71)</b>	<b>18 (0.71)</b>	<b>14,5 (0.57)</b>	<b>42 (1.65)</b>	<b>5,2 (0.20)</b>	<b>34 (1.34)</b>	<b>55 (2.17)</b>	<b>16 (0.63)</b>	<b>10 (7.5)</b>	<b>0,054 (0.12)</b>
<b>VUBA100</b>	<b>BSPP 1</b>	<b>180 (47.5)</b>		<b>20 (0.79)</b>	<b>26 (1.02)</b>	<b>19 (0.75)</b>	<b>48 (1.89)</b>	<b>7 (0.28)</b>	<b>40 (1.57)</b>	<b>63 (2.48)</b>	<b>22 (0.87)</b>	<b>12 (9)</b>	<b>0,1 (0.22)</b>



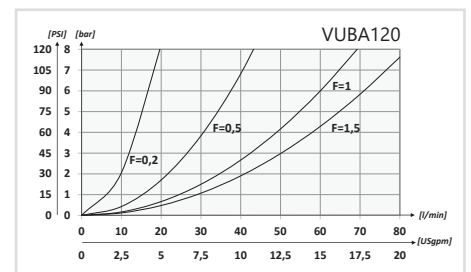
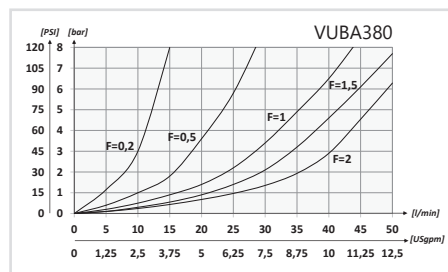
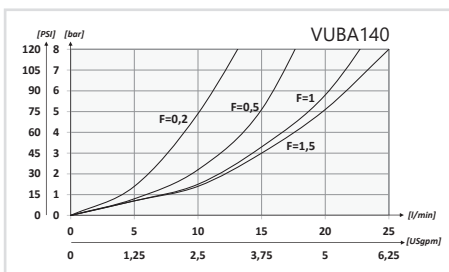
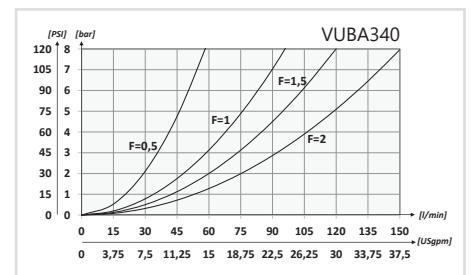
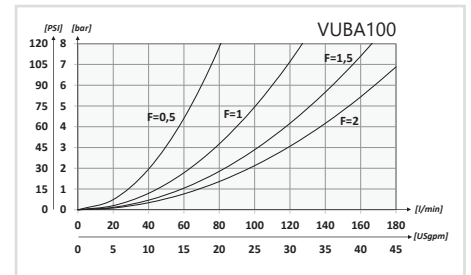
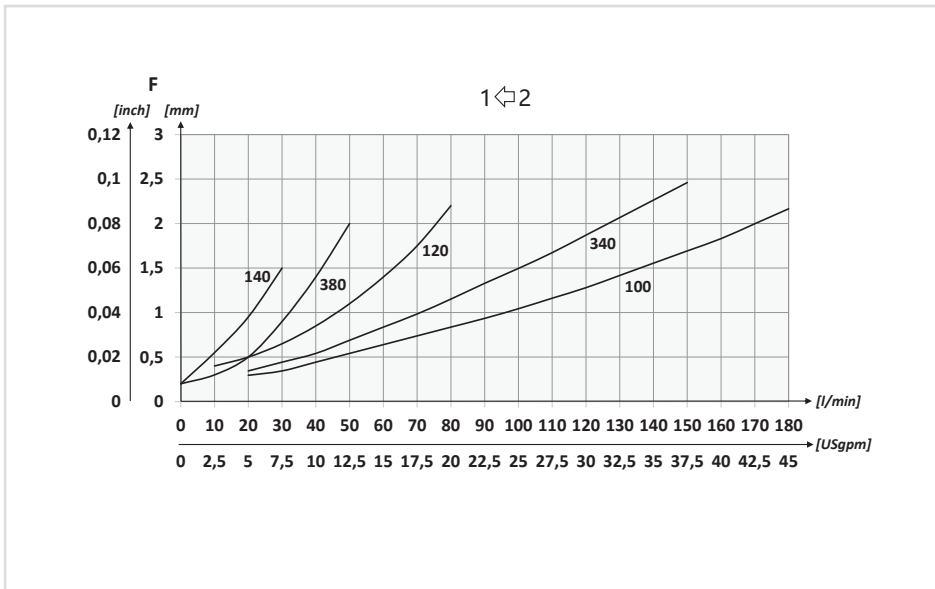
### Colonneta - Housings M/F

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

### Colonneta - Housings F/F

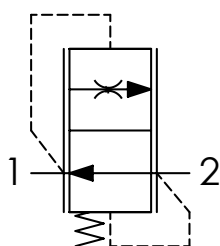
Tipo Type	A	S	P	T	U	Ch.	Peso approssimativo Approx weight kg/lb
<b>61100092</b>	BSPP 1/4	48 (1.89)	10 (0.39)	13 (0.51)	20.5 (0.80)	19	0.09 (0.20)
<b>61100093</b>	BSPP 3/8	54 (2.13)	10 (0.39)	30 (1.18)	24.2 (0.95)	22	0.11 (0.24)
<b>61100094</b>	BSPP 1/2	73 (2.87)	10 (0.39)	46.5 (1.83)	29.2 (1.14)	27	0.20 (0.44)
<b>61100095</b>	BSPP 3/4	74 (2.91)	12 (0.47)	44 (1.73)	35.5 (1.32)	32	0.27 (0.59)

### Regolazione "F" - Setting "F"





Schema idraulico - Hydraulic circuit



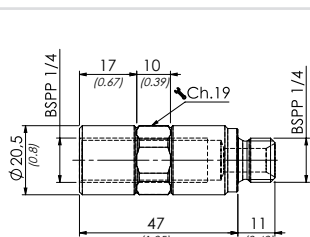
Codice ordinazione  
Ordering code

01	02
<b>VCC140</b>	

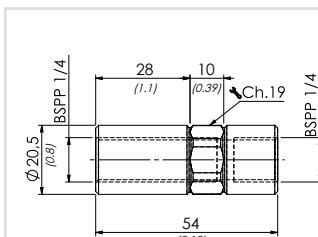
01	Valvole controllo discesa fisse compensate (Fixed flow control valves - pressure compensated)	VCC140
02	Portata controllata a 100 bar ± 10% (Controlled flow at 100 bar ± 10%)	1 l/min (0.26 USgpm) <b>1</b>
		2 l/min (0.53 USgpm) <b>2</b>
		3 l/min (0.79 USgpm) <b>3</b>
		4 l/min (1.06 USgpm) <b>4</b>
		5 l/min (1.32 USgpm) <b>5</b>
		6 l/min (1.58 USgpm) <b>6</b>
		7 l/min (1.85 USgpm) <b>7</b>
		8 l/min (2.11 USgpm) <b>8</b>
		9 l/min (2.38 USgpm) <b>9</b>
		10 l/min (2.64 USgpm) <b>10</b>
		11 l/min (2.90 USgpm) <b>11</b>
		12 l/min (3.17 USgpm) <b>12</b>

Tipo - Type  
**61100160**

Tipo - Type  
**61100159**



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

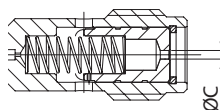


Peso approssimativo (Approx weight)  
**0,09 kg (0.20 lb)**

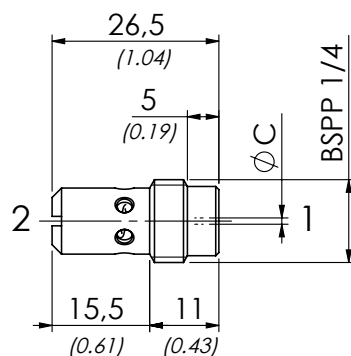
Dati tecnici - Technical data

Olio idraulico/Mineral oil	ISO 6743/4 (DIN 51524)
Viscosità olio/Oil viscosity	15-250 mm <sup>2</sup> /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
<b>È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)</b> It is necessary a filter use to protect the valve (advised filtration 15 µm)	

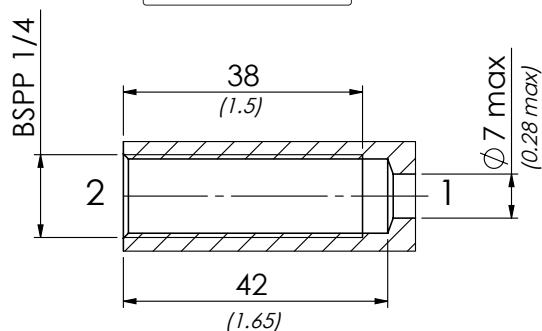
Tipo Type	Portata max Max flow l/min-USgpm	Pressione max Max pressure bar/PSI	Coppia di serraggio Tightening torque Nm/lbf ft	Peso approssimativo Approx weight kg/lb
<b>VCC140</b>	<b>12 (3.2)</b>	<b>250 (3625)</b>	<b>4 (3)</b>	<b>0,014 (0.031)</b>



Tipo (Type)	Ø C
<b>VCC1401</b>	<b>1 (0.04)</b>
<b>VCC1402</b>	<b>1,2 (0.05)</b>
<b>VCC1403</b>	<b>1,5 (0.06)</b>
<b>VCC1404</b>	<b>1,7 (0.07)</b>
<b>VCC1405</b>	<b>1,9 (0.07)</b>
<b>VCC1406</b>	<b>2,1 (0.08)</b>
<b>VCC1407</b>	<b>2,3 (0.09)</b>
<b>VCC1408</b>	<b>2,4 (0.09)</b>
<b>VCC1409</b>	<b>2,7 (0.11)</b>
<b>VCC14010</b>	<b>2,8 (0.11)</b>
<b>VCC14011</b>	<b>3,1 (0.12)</b>
<b>VCC14012</b>	<b>3,3 (0.13)</b>



Cavità (Cavity)

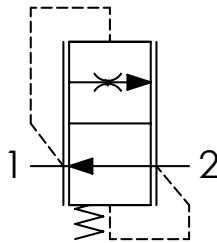


[ mm  
(Inches) ]





Schema idraulico - Hydraulic circuit



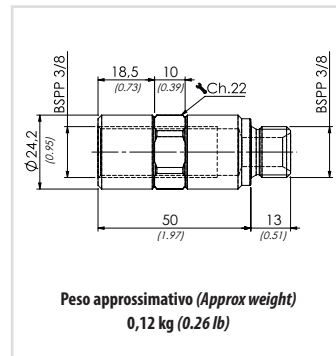
**Dati tecnici - Technical data**

olio idraulico/Mineral oil	ISO 6743/4 (DIN 51524)	
Viscosità olio/Oil viscosity	15-250 mm <sup>2</sup> /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
<b>È indispensabile l'utilizzo di un filtro per proteggere la valvola (filtrazione consigliata 15 µm)</b> It is necessary a filter use to protect the valve (advised filtration 15 µm)		

Codice ordinazione Ordering code	01	02
	<b>VCC380</b>	

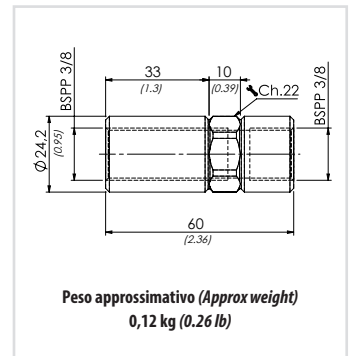
01	Valvole controllo discesa fisse compensate (Fixed flow control valves - pressure compensated)		<b>VCC380</b>
02	Portata controllata a 100 bar ± 10% (Controlled flow at 100 bar ± 10%)	1 l/min (0.26 USgpm)	1
		2 l/min (0.53 USgpm)	2
		3 l/min (0.79 USgpm)	3
		4 l/min (1.06 USgpm)	4
		5 l/min (1.32 USgpm)	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**



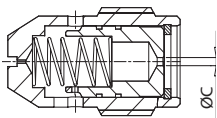
Peso approssimativo (Approx weight)  
**0,12 kg (0.26 lb)**

Tipo - Type  
**61100161**

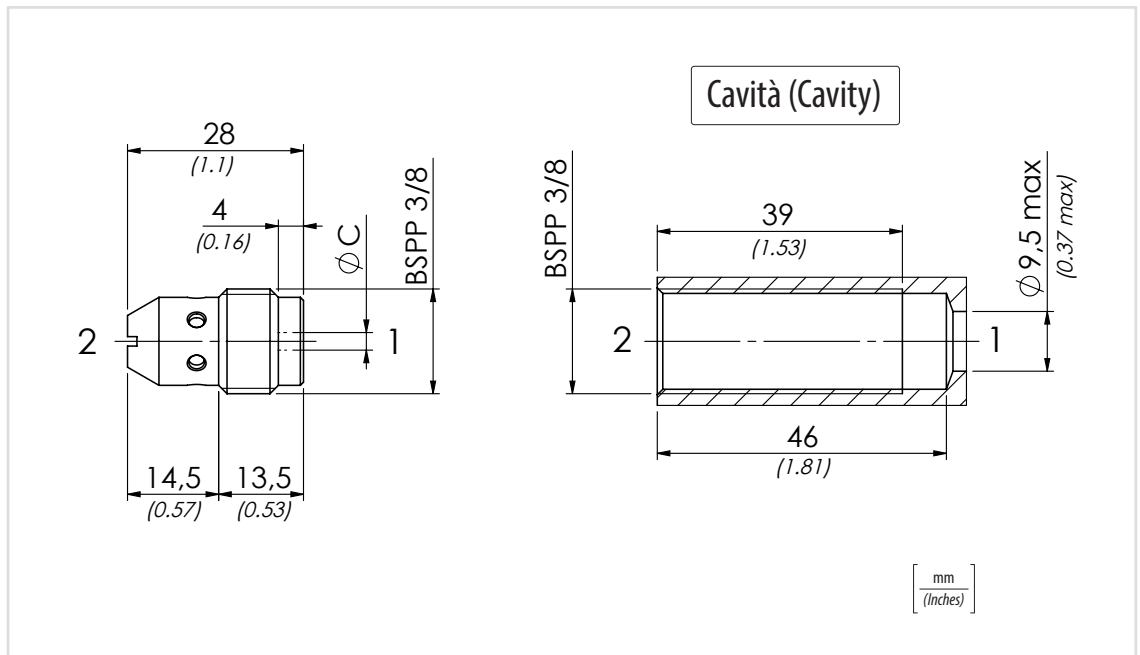


Peso approssimativo (Approx weight)  
**0,12 kg (0.26 lb)**

Tipo Type	Portata max Max flow l/min-USgpm	Pressione max Max pressure bar/PSI	Coppia di serraggio Tightening torque Nm/lbt ft	Peso approssimativo Approx weight kg/lb
<b>VCC380</b>	<b>18 (4.8)</b>	<b>250 (3625)</b>	<b>6 (4.5)</b>	<b>0,024 (0.053)</b>



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

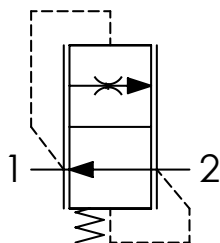


Cavità (Cavity)

mm  
(Inches)

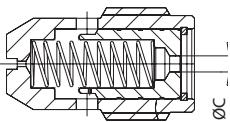


### Schema idraulico - Hydraulic circuit

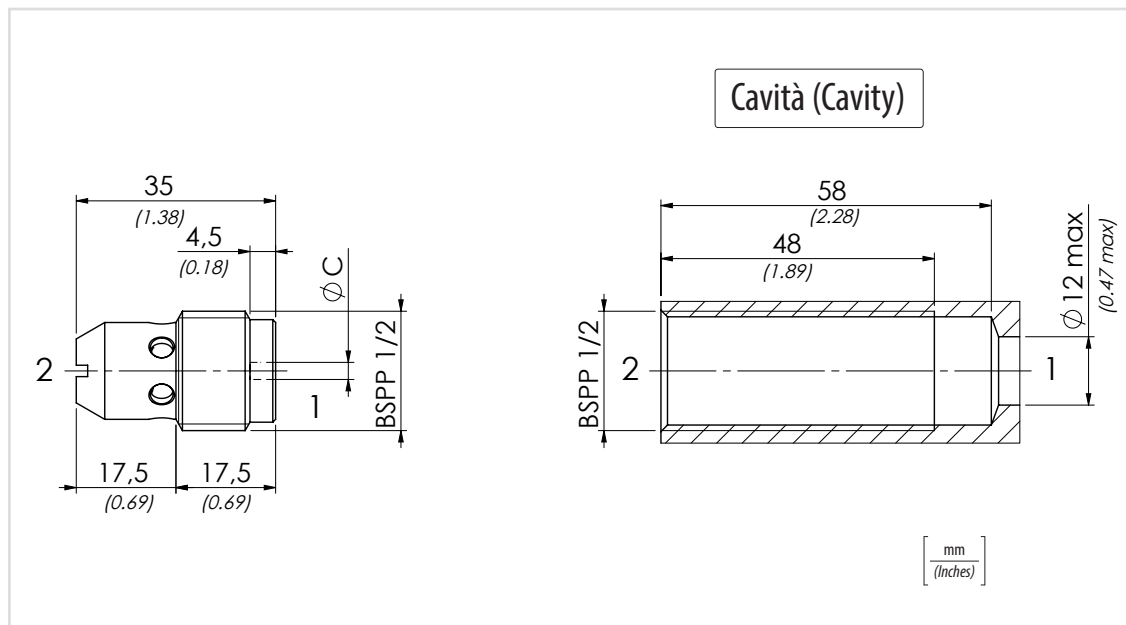


### Dati tecnici - Technical data

olio idraulico/Mineral oil	ISO 6743/A (DIN 51524)	
Viscosità olio/Oil viscosity	15-250 mm <sup>2</sup> /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)		



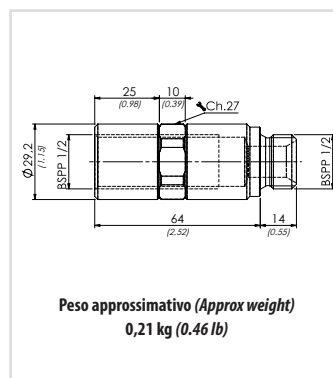
Tipo (Type)	Ø C
VSC1209	2,5 (0.10)
VSC12012	3 (0.12)
VSC12017	3,5 (0.14)
VSC12021	4 (0.16)
VSC12027	4,5 (0.18)
VSC12032	5 (0.20)
VSC12040	5,5 (0.22)
VSC12047	6 (0.24)



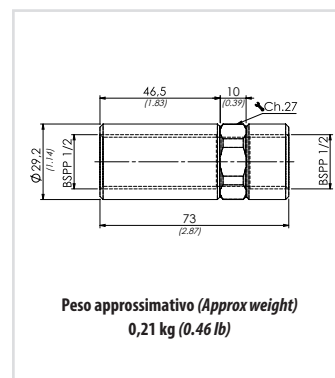
Codice ordinazione Ordering code	01	02
	<b>VSC120</b>	

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) <b>9</b>
		12 l/min (3.17 USgpm) <b>12</b>
		17 l/min (4.49 USgpm) <b>17</b>
		21 l/min (5.54 USgpm) <b>21</b>
		27 l/min (7.1 USgpm) <b>27</b>
		32 l/min (8.45 USgpm) <b>32</b>
		40 l/min (10.56 USgpm) <b>40</b>
47 l/min (12.4 USgpm) <b>47</b>		

Tipo - Type  
**61100033**



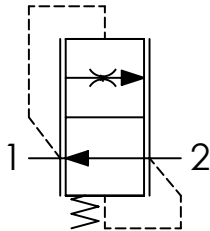
Tipo - Type  
**61100094**



Tipo Type	Portata max Max flow l/min-USgpm	Pressione max Max pressure bar/PSI	Coppia di serraggio Tightening torque Nm/lbf ft	Peso approssimativo Approx weight kg/lb
VSC120	47 (12.4)	250 (3625)	10 (7.5)	0,050 (0.11)

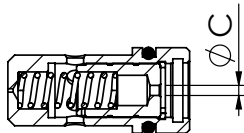


Schema idraulico - Hydraulic circuit



**Dati tecnici - Technical data**

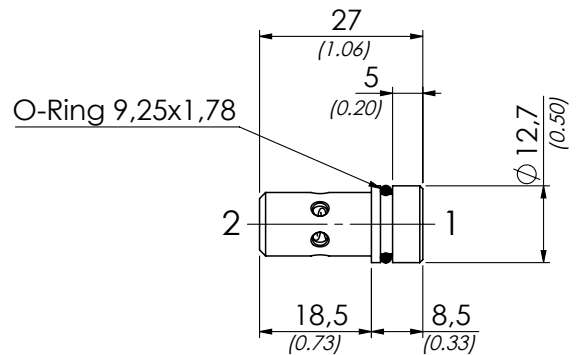
<b>Olio idraulico/Mineral oil</b>	ISO 6743/4 (DIN 51524)	
<b>Viscosità olio/Oil viscosity</b>	15-250 mm <sup>2</sup> /s (15 to 250 cSt)	
<b>Classe di contaminazione max con filtro</b> Max contamination index with filter	ISO 4406:1999 Classe 19/17/14	
<b>Temperatura dell'olio/Oil temperature</b>	-20°C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

01	02
<b>01</b>	<b>VSCR6</b>
<b>Ordering code</b>	

01	Valvole controllo discesa fisse compensate (Fixed flow control valves - pressure compensated)	VSCR6
	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
02	Portata controllata a 100 bar ± 10% (Controlled flow at 100 bar ± 10%)	
	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 approssimativo Approx weight kg/lb
VSCR6	12 (3.20)	250 (3625)	0,012 (0.026)

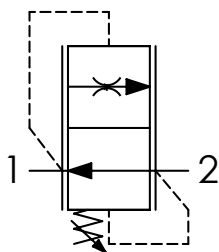
01 02 03 04

**Codice ordinazione**  
**Ordering code**

**VRD**



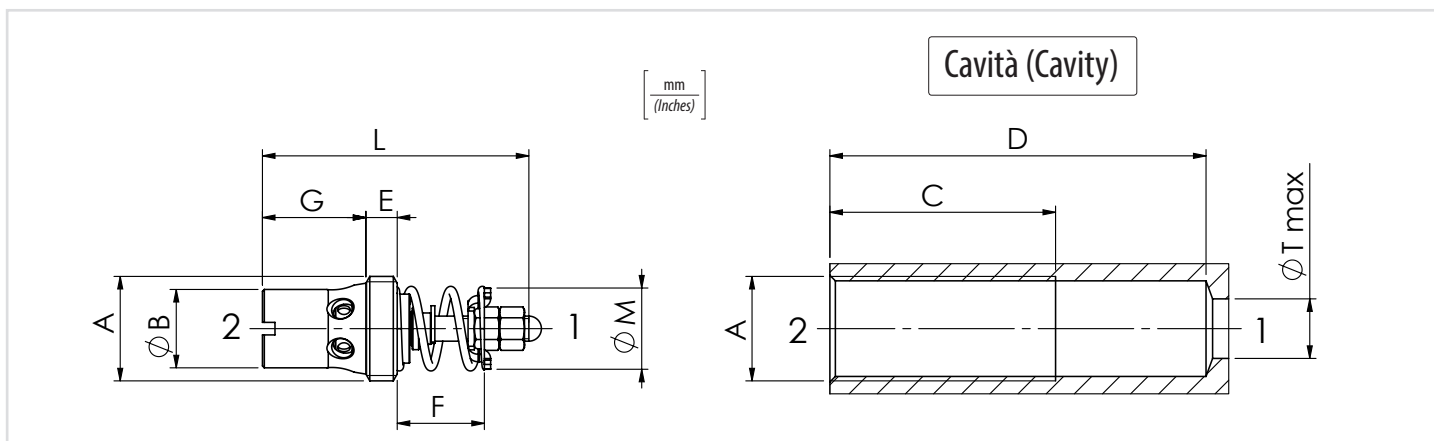
**Schema idraulico - Hydraulic circuit**



<b>01</b>	Valvole controllo discesa regolabili compensate (Adjustable flow control valves - pressure compensated)							<b>VRD</b>	
<b>02</b>	Dimensione (Size)	BSPP 1/4						<b>140</b>	
		BSPP 3/8						<b>380</b>	
		BSPP 1/2						<b>120</b>	
		BSPP 3/4						<b>340</b>	
<b>03</b>	Flusso controllato a 50 bar (Controlled flow at 50 bar)	A	B	C	D	E	F		
		l/min-USgpm							
		2/3,2 (0.5/0.8)	2,9/5,8 (0.8/1.5)	4,5/7,6 (1.2/2.0)	5,5/10,5 (1.5/2.8)	8/13,5 (2.1/3.6)	12/21 (3.2/5.5)		<b>VRD140</b>
		4/7,5 (1.1/2.0)	7/9,7 (1.8/2.6)	7,8/14 (2.1/3.7)	13/18 (3.4/4.8)	18/26 (4.8/6.9)	25/37 (6.6/9.8)		<b>VRD380</b>
		14/21 (3.7/5.5)	21,5/30 (5.7/7.9)	29,5/39 (7.8/10.3)	40/49 (10.6/12.9)	52,5/66 (13.9/17.4)	-		<b>VRD120</b>
	38/51 (10.0/13.5)	44/64 (11.6/16.9)	64/90 (16.9/23.8)	70/110 (18.5/29.0)	105/150 (27.7/39.6)	-	<b>VRD340</b>		
<b>04</b>	Regolazione (Setting)	Esempio: regolazione 15 mm (Example: setting 15 mm) <b>F 15</b>						<b>F</b> _ _	
		Omesso se non richiesto (Omitted if not required)							

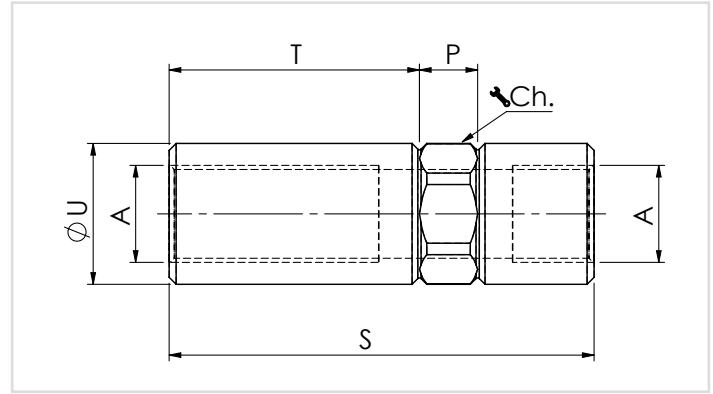
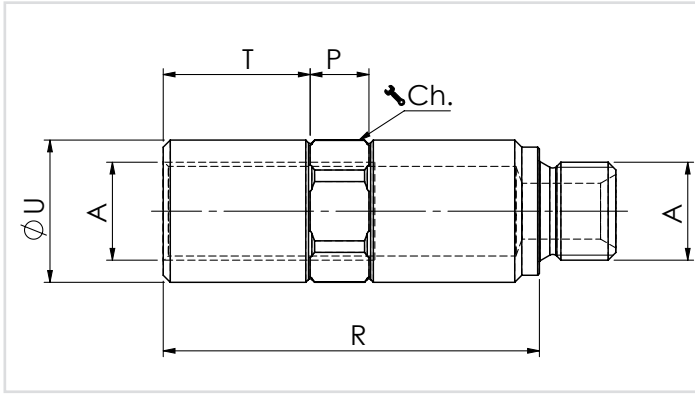
**Dati tecnici - Technical data**

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



**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 approssimativo Approx weight kg/lb	Coppia di serraggio Tightening Torque Nm/lbt ft
<b>VRD140</b>	<b>BSPP 1/4</b>	<b>20 (5.3)</b>	<b>300 (4350)</b>	<b>10 (0.39)</b>	<b>33 (1.30)</b>	<b>53 (2.09)</b>	<b>6 (0.24)</b>	<b>7 (0.28)</b>	<b>13,5 (0.53)</b>	<b>39 (1.54)</b>	<b>10 (0.39)</b>	<b>57 (2.24)</b>	<b>66 (2.60)</b>	<b>0,013 (0.029)</b>	<b>6 (4.5)</b>
<b>VRD380</b>	<b>BSPP 3/8</b>	<b>35 (9.2)</b>		<b>12,5 (0.49)</b>	<b>36 (1.42)</b>	<b>60 (2.63)</b>	<b>5 (0.20)</b>	<b>9,5 (0.37)</b>	<b>15,5 (0.61)</b>	<b>45 (1.77)</b>	<b>14 (0.55)</b>	<b>64 (2.52)</b>	<b>73 (2.87)</b>	<b>0,024 (0.053)</b>	<b>8 (6)</b>
<b>VRD120</b>	<b>BSPP 1/2</b>	<b>65 (17.2)</b>		<b>16 (0.63)</b>	<b>39 (1.54)</b>	<b>63 (2.48)</b>	<b>7 (0.28)</b>	<b>12 (0.47)</b>	<b>16 (0.63)</b>	<b>51 (2.01)</b>	<b>18 (0.71)</b>	<b>69 (2.72)</b>	<b>81 (3.19)</b>	<b>0,037 (0.082)</b>	<b>12 (9)</b>
<b>VRD340</b>	<b>BSPP 3/4</b>	<b>150 (39.6)</b>		<b>20 (0.79)</b>	<b>50 (1.97)</b>	<b>81 (3.19)</b>	<b>10 (0.39)</b>	<b>16 (0.63)</b>	<b>21 (0.83)</b>	<b>62 (2.44)</b>	<b>23 (0.91)</b>	<b>87 (3.43)</b>	<b>99 (3.90)</b>	<b>0,079 (0.18)</b>	<b>15 (11.25)</b>



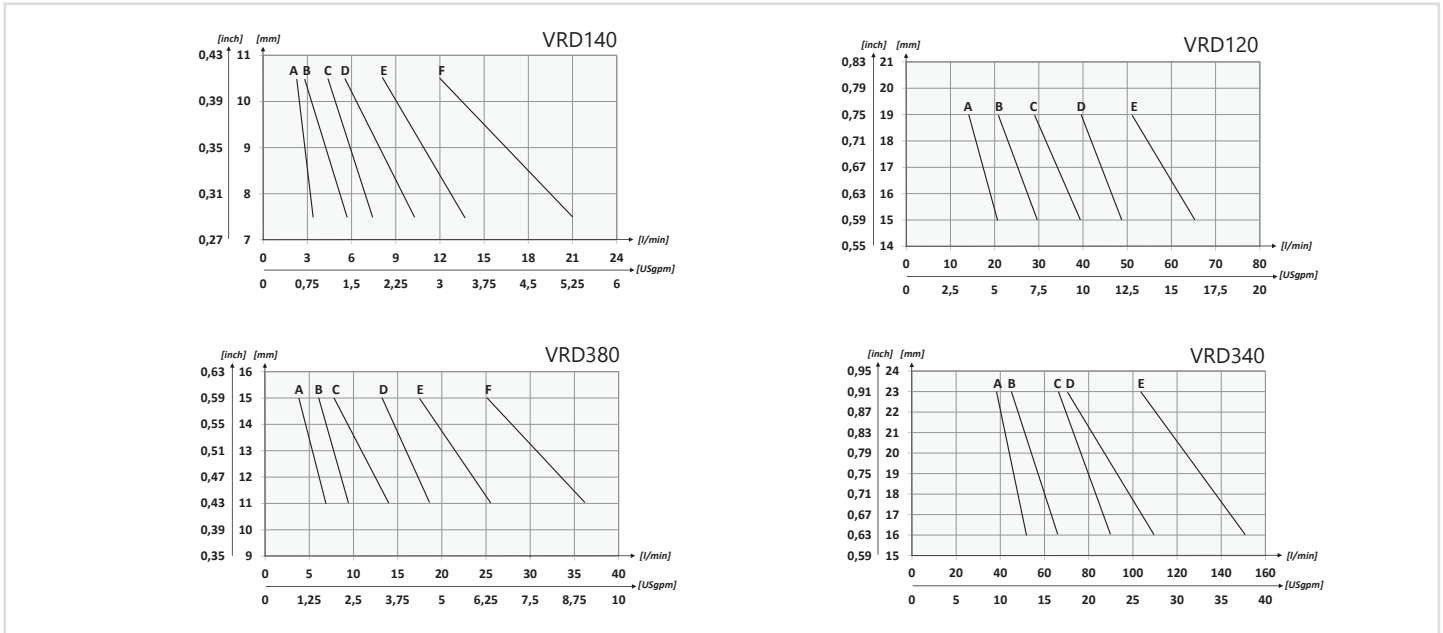
### Colonneta - Housing M/F

### Colonneta - Housing F/F

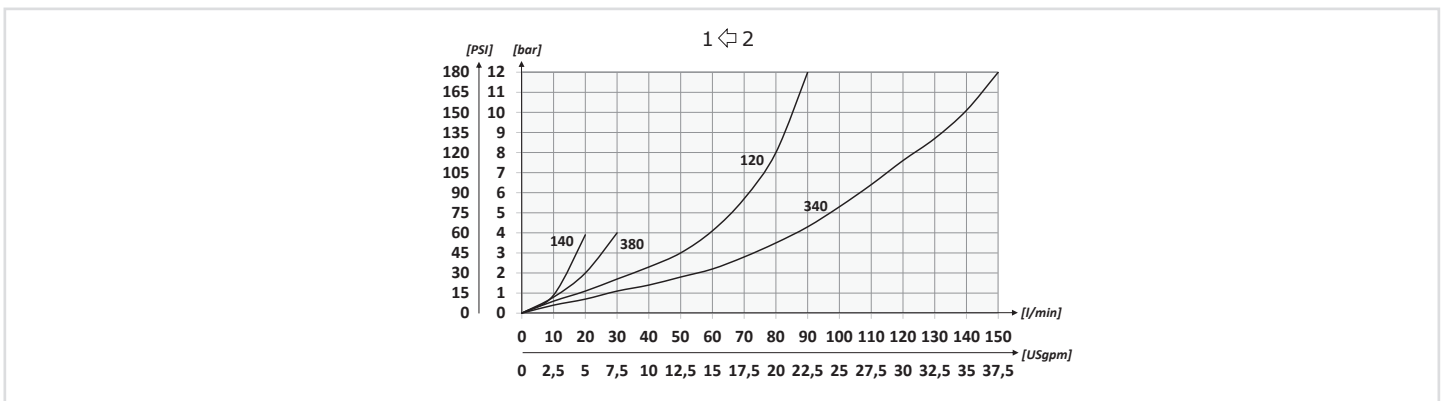
Tipo Type	A	R	P	T	U	Ch.	Peso approssimativo (kg) Approx weight (lb)
<b>61100057</b>	<b>BSPP 1/4</b>	<b>57 (2.24)</b>	<b>10 (0.39)</b>	<b>22 (0.87)</b>	<b>20.5 (0.81)</b>	<b>19</b>	<b>0.11 (0.16)</b>
<b>61100058</b>	<b>BSPP 3/8</b>	<b>64 (2.52)</b>	<b>10 (0.39)</b>	<b>25 (0.98)</b>	<b>24.5 (0.96)</b>	<b>22</b>	<b>0.14 (0.20)</b>
<b>61100059</b>	<b>BSPP 1/2</b>	<b>69 (2.71)</b>	<b>10 (0.39)</b>	<b>28 (1.10)</b>	<b>29.5 (1.16)</b>	<b>27</b>	<b>0.24 (0.30)</b>
<b>61100060</b>	<b>BSPP 3/4</b>	<b>87 (3.42)</b>	<b>12 (0.47)</b>	<b>36 (1.42)</b>	<b>35.5 (1.40)</b>	<b>32</b>	<b>0.34 (0.48)</b>

Tipo Type	A	S	P	T	U	Ch.	Peso approssimativo (kg) Approx weight (lb)
<b>61100051</b>	<b>BSPP 1/4</b>	<b>66 (2.60)</b>	<b>10 (0.39)</b>	<b>38 (1.50)</b>	<b>20.5 (0.81)</b>	<b>19</b>	<b>0.11 (0.16)</b>
<b>61100052</b>	<b>BSPP 3/8</b>	<b>73 (2.87)</b>	<b>10 (0.39)</b>	<b>43 (1.69)</b>	<b>24.5 (0.96)</b>	<b>22</b>	<b>0.12 (0.20)</b>
<b>61100053</b>	<b>BSPP 1/2</b>	<b>81 (3.19)</b>	<b>10 (0.39)</b>	<b>50.5 (1.99)</b>	<b>29.5 (1.16)</b>	<b>27</b>	<b>0.20 (0.33)</b>
<b>61100054</b>	<b>BSPP 3/4</b>	<b>99 (3.90)</b>	<b>12 (0.47)</b>	<b>57 (2.24)</b>	<b>35.5 (1.40)</b>	<b>32</b>	<b>0.29 (0.50)</b>

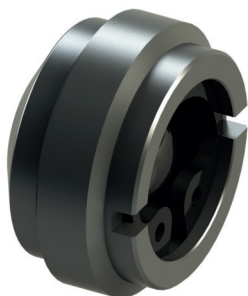
### Regolazione - Setting



### Performances

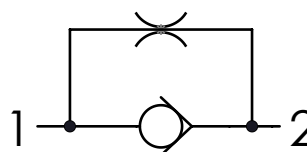


	01	02	03
<b>Codice ordinazione</b> <b>Ordering code</b>	<b>VS</b>	<b>380</b>	



<b>01</b>	Valvole unidirezionali con trafilamento (Check valves with gap)	<b>VS</b>
<b>02</b>	Dimensione (Size)	<b>380</b>
<b>03</b>	Tagli (Gaps)	2 tagli (2 gaps)
		4 tagli (4 gaps)

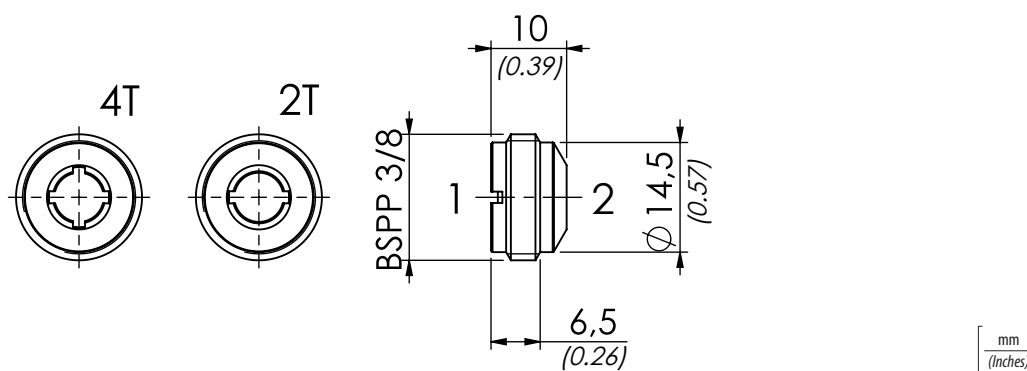
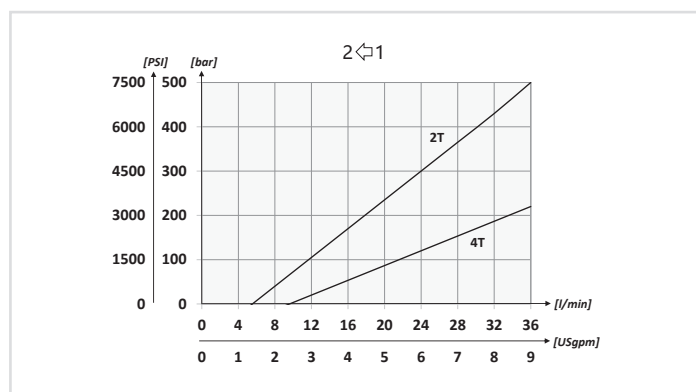
### Schema idraulico - Hydraulic circuit



### Dati tecnici - Technical data

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

### Performances



### Caratteristiche tecniche - Technical characteristics

Tipo Type	Portata max (l/min) Max flow (USgpm)	Pressione max (bar) Max pressure (PSI)	Coppia di serraggio (Nm) Tightening torque (bt in)	Peso approssimativo (kg) Approx weight (lb)
<b>VS380</b>	<b>35 (9.2)</b>	<b>500 (7250)</b>	<b>6 (4.5)</b>	<b>0,01 (0.022)</b>