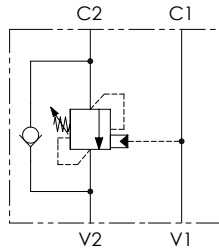
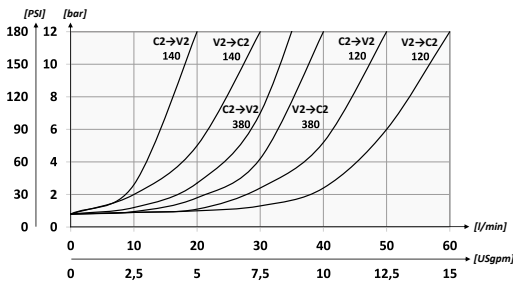


**Hydraulic circuit**



**Performances**



**Ordering code**

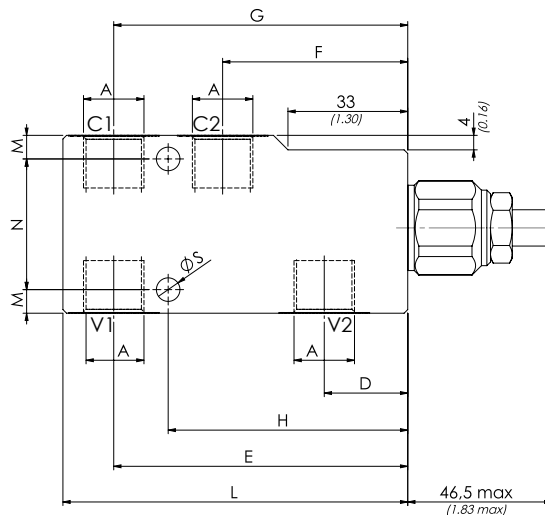
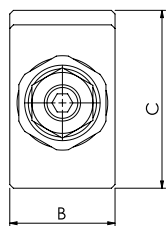
01	02	03	04	05
<b>VBCL</b>				

<b>01</b>	Single counterbalance valves for open center			<b>VBCL</b>	
<b>02</b>	Size	BSPP 1/4		<b>140</b>	
		BSPP 3/8		<b>380</b>	
		BSPP 1/2		<b>120</b>	
<b>03</b>	Spring	Rp 1:4.25	Press. increase <b>78 bar/al giro</b> (1131 PSI/turn)	(Std. setting) <b>Q=5 l/min 200 bar</b> (2900 PSI)	<b>1</b>
		Rp 1:8.75	Press. increase <b>160 bar/al giro</b> (2320 PSI/turn)		
<b>03</b>	Spring	Rp 1:4.25	Press. increase <b>135 bar/al giro</b> (1958 PSI/turn)	(Std. setting) <b>Q=5 l/min 350 bar</b> (5075 PSI)	<b>2</b>
		Rp 1:8.75	Press. increase <b>160 bar/al giro</b> (2320 PSI/turn)		
<b>04</b>	Material	Steel body + zinc-plated			<b>S</b>
		Steel body + zinc-nickel			<b>K</b>
<b>05</b>	Pilot ratio	1:4.25 Standard			<b>/</b>
		1:8.75			<b>8</b>

**Technical data**

Mineral oil	<b>ISO 6743/4 (DIN 51524)</b>		
Oil viscosity	<b>15-250 mm<sup>2</sup>/s (15 to 250 cSt)</b>		
Max contamination index with filter	<b>ISO 4406:1999 Classe 19/17/14</b>		
Oil temperature	<b>-20°C +80°C</b>	<b>-4°F + 176°F</b>	
Ambient temperature	<b>-20°C +50°C</b>	<b>-4°F + 122°F</b>	

It is necessary a filter use to protect the valve (advised filtration 15 µm)



[ mm  
(Inches) ]

**Technical characteristics**

Type	A	Max flow l/min-USgpm	Max pressure bar/PSI	B	C	D	E	F	G	H	L	M	N	S	Approx weight kg/lb
<b>VBCL140</b>	<b>BSPP 1/4</b>	<b>30 (7.9)</b>	<b>350 (5075)</b>	<b>29 (1.14)</b>	<b>49 (1.93)</b>	<b>23 (0.91)</b>	<b>58 (2.28)</b>	<b>51 (2.01)</b>	<b>81 (3.19)</b>	<b>66 (2.60)</b>	<b>95 (3.74)</b>	<b>6,5 (0.26)</b>	<b>36 (1.42)</b>	<b>6,5 (0.26)</b>	<b>0,98 (2.16)</b>
<b>VBCL380</b>	<b>BSPP 3/8</b>	<b>40 (10.6)</b>			<b>59 (2.32)</b>	<b>21 (0.83)</b>	<b>63 (2.48)</b>		<b>84 (3.31)</b>	<b>67,5 (2.66)</b>	<b>100 (3.94)</b>	<b>9,5 (0.37)</b>	<b>40 (1.57)</b>		<b>1,09 (2.40)</b>
<b>VBCL120</b>	<b>BSPP 1/2</b>	<b>60 (15.9)</b>			<b>59 (2.32)</b>	<b>21 (0.83)</b>	<b>63 (2.48)</b>		<b>84 (3.31)</b>	<b>67,5 (2.66)</b>	<b>100 (3.94)</b>	<b>9,5 (0.37)</b>	<b>40 (1.57)</b>		<b>1,09 (2.40)</b>