

Series VBO - VBU blocking valves

Unidirectional valves (VBU) and bidirectional valves (VBO) Ports G1/8, G1/4, G3/8 and G1/2





- » Series VBU: unidirectional valves with operating pressure from 0.3 to 10 bar
- » Series VBO: bidirectional valves with operating pressure from 0 to 10 bar
- » Direct mounting on cylinders or on distribution and fluid control blocks

These unidirectional and bidirectional blocking valves have been realised in order to enable mounting directly on cylinders.

They can be used as high flow valves for blows, cleaning of pieces, filling of volumes.

For these applications it is suggested to connect the supply to port 2 (having the mail thread).

These valves can be mounted directly also on distribution and fluid control blocks.

GENERAL DATA

Construction poppet type

Valve group unidirectional and bidirectional blocking valve

Materials Brass - NBR seals - stainless steel springs - PTFE

Mounting by male thread

Ports G1/8 - G1/4 - G3/8 - G1/2

Position in any position

Operating temperature O°C ÷ 80°C (with dry air -20°C)

Operating pressure VBU: 0,3 ÷ 10 bar, VBO: 0 ÷ 10 bar

Nominal pressure 6 bar Nominal flow see graph

Nominal diam. G1/8 ø 5,5 mm - G1/4 ø 8 mm - G3/8 ø 11 mm - G1/2 ø 15 mm

Fluid filtered air, without lubrication. If lubricated air is used, it is recommended to use oil ISO VG32. Once applied, the lubrication should

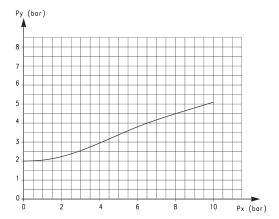
never be interrupted.



CODING EXAMPLE

VB	U	1/8
VB	SERIES: VB	
U	VERSIONS: U = unidirectional O = bidirectional	
1/8	PORTS: G1/8 G1/4 G3/8 G1/2	

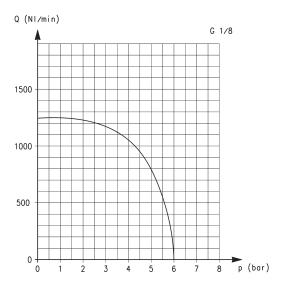
DIAGRAM OF THE PILOT PRESSURE



This diagram shows the relation between working pressure (Px) and pilot pressure required in order to operate the valve (Py). The opening pressure of the unidirectional valve is 0,3 bar.

SERIES VBO AND VBU BLOCKING VALVES

FLOW DIAGRAMS OF UNIDIRECTIONAL AND BIDIRECTIONAL VALVES



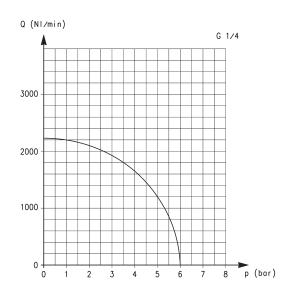


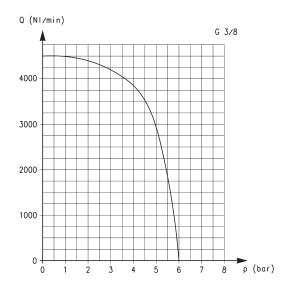
Diagram for valves VBU and VBO with G1/8 ports.

 ${\tt Q}$ is the flow measured in Nl/min and determined with an inlet pressure of 6 bar.

Diagram for valves VBU and VBO with G1/4 ports.

 ${\tt Q}$ is the flow measured in Nl/min and determined with an inlet pressure of 6 bar.

FLOW DIAGRAMS OF UNIDIRECTIONAL AND BIDIRECTIONAL VALVES



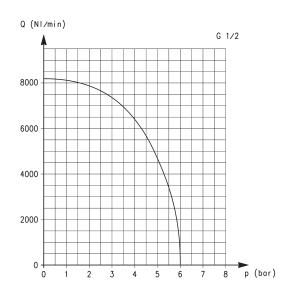


Diagram for valves VBU and VBO with G3/8 ports.

 ${\bf Q}$ is the flow measured in NI/min and determined with an inlet pressure of 6 bar.

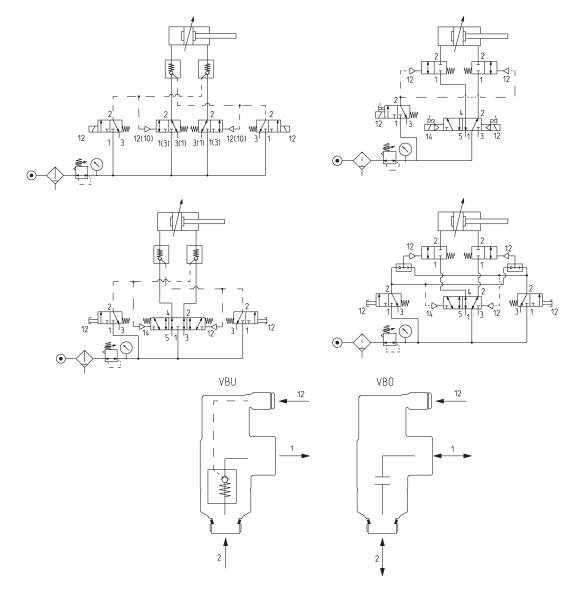
Diagram for valves VBU and VBO with G1/2 ports.

 ${\tt Q}$ is the flow measured in NI/min and determined with an inlet pressure of 6 bar.

C₹ CAMOZZI



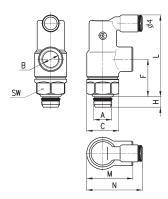
VBU = UNIDIRECTIONAL blocking valve VBO = BIDIRECTIONAL blocking valve



SERIES VBO AND VBU BLOCKING VALVES

Unidirectional blocking valve



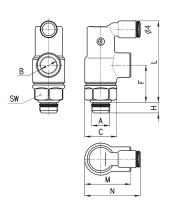


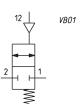


DIMENSIONS										
Mod.	Α	В	С	F	Н	L	М	N	SW	
VBU 1/8	1/8	1/8	16,9	20	5,5	43	24,5	30	15	
VBU 1/4	1/4	1/4	20,5	25	7	50	32,2	33,5	19	
VBU 3/8	3/8	3/8	26,8	33	8	67	40	39,5	24	
VRII 1/2	1/2	1/2	30	45.5	9	85.7	52	48	27	

Bidirectional blocking valve







DIMENSIONS										
Mod.	Α	В	С	F	Н	L	М	N	SW	
VBO 1/8	1/8	1/8	16,9	20	5,5	43	24,5	30	15	
VBO 1/4	1/4	1/4	20,5	25	7	50	32,2	33,5	19	
VBO 3/8	3/8	3/8	26,8	33	8	67	40	39,5	24	
VBO 1/2	1/2	1/2	30	45,5	9	85,7	52	48	27	