

Pilot operated check, dual

VSO-DE-FC2

05.53.02 - X - Y - Z

RE 18307-20

Edition: 09.2019

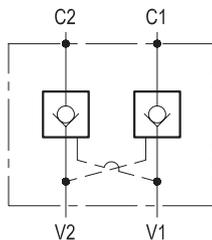
Replaces: 03.2016



Description

Flow is allowed to pass in one direction (V1 to C1 or V2 to C2), then the valve remains closed (checked) in both reverse directions (C1 to V1 or C2 to V2) in order to hold and lock in position the cylinder or other actuators; reverse flow is possible only when sufficient pilot pressure is applied at V2 or V1, which act as cross connected pilot ports, and the pilot piston lifts the poppet from its seat overcoming cylinder port pressure. For better safety and compact assembly, C1 and C2 ports are flanged (gasket mounted) directly on the actuator.

In case of valve application in redundancy systems it is especially recommended to use version with sealed pilot piston.



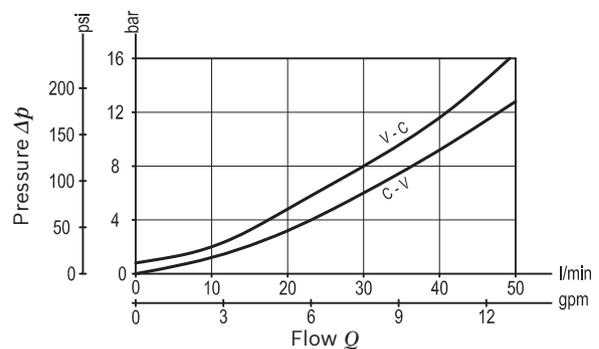
Technical data

Operating pressure	up to 210 bar (3000 psi)
Max. flow	50 l/min. (13 gpm)
Weight	1.06 kg (2.3 lbs)
Manifold material	Aluminium
Note: aluminium bodies are often strong enough for operating pressures exceeding 210 bar (3000 psi), depending from the fatigue life expected in the specific application. If in doubt, consult our Service Network.	
Flange seal kit ¹⁾	E00000000000008 (R930004538)
Fluid	Mineral oil (HL, HLP) according DIN 51524
Fluid temperature range	-30 °C to 100 (-22 to 212 °F)
Viscosity range	10 to 500 mm ² /s (cSt)
Recommended degree of fluid contamination	Class 19/17/14 according to ISO 4406
Other technical data	see data sheet 18350-50
The version with O-Ring and heavier spring is generally recommended.	

Note: for applications outside these parameters, please consult us.

¹⁾ Seal for 10 valves

Characteristic curve



Ordering code

05.53.02	X	Y	Z
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O-Ring on pilot piston	Pilot ratio
00 No O-Ring	3.2 : 1
10 With O-Ring	3.2 : 1
25 With O-Ring	6 : 1

Port sizes	V1 - V2	C1 - C2
03	G 1/2	Ø7 (0.28)

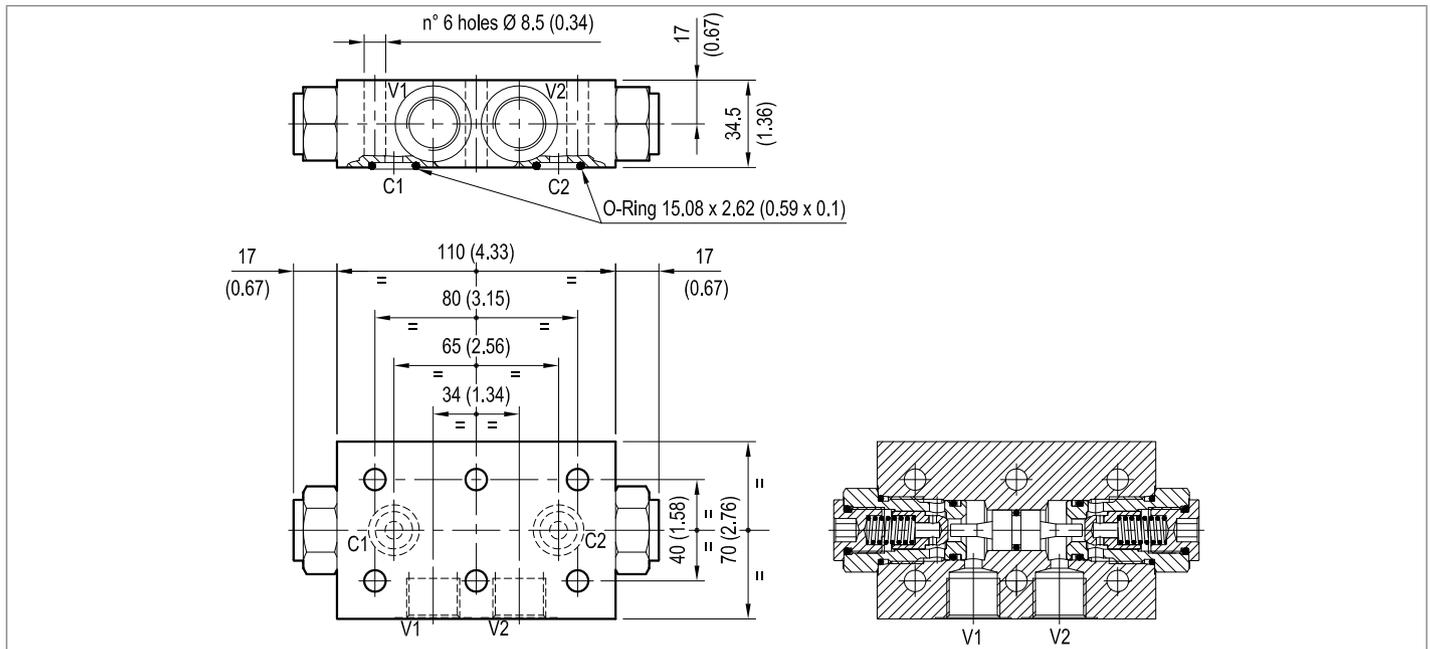
SPRINGS	
Cracking pressure bar (psi)	
00	only for X=00 1 (15)
01	only for X=00, X=10 and X=25 8 (116)

Preferred types

Type	Material number
055302000300000	R930002408
055302000301000	R930002409

Type	Material number
055302100301000	R930002412
055302250301000	R930002416

Dimensions



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