

Pilot operated check, single vented pilot piston

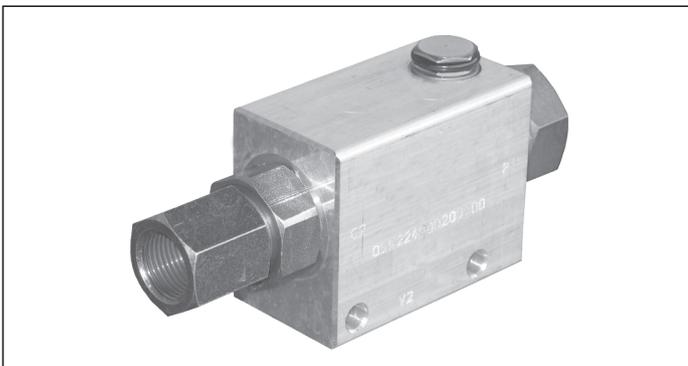
VSO-SE-PS

05.52.24 - X - Y - Z

RE 18307-11

Edition: 09.2019

Replaces: 03.2016



Technical data

Operating pressure	up to 210 bar (3000 psi)
Max. flow	30 l/min. (8 gpm)
Pilot ratio	10 : 1
Weight	0.5 kg (1.1 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.	
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

Whenever possible, it is recommended to remove the air bleed plug and to connect the port (G 1/8) to tank.

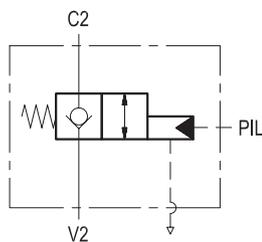
The version with heavier spring is generally recommended.

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

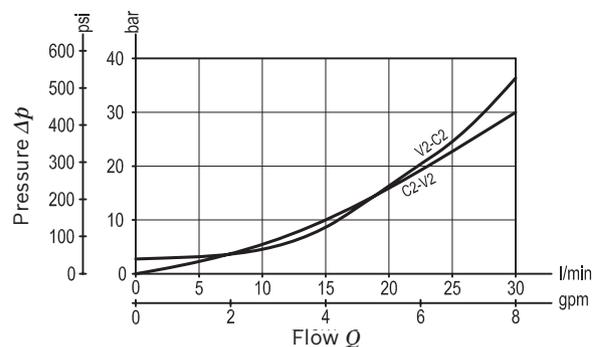
Description

Flow is allowed to pass from V2 to C2 when pressure at V2 rises above the spring bias pressure and the poppet is pushed from its seat. The valve is normally closed (checked) from C2 to V2; when sufficient pilot pressure is present at Pil the pilot piston acts to push the poppet from its seat and flow is allowed from C2 to V2. The pilot piston is vented and the pilot pressure required to push the poppet from its seat is independent from any back-pressure at V2 port.

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



Characteristic curve



Ordering code

05.52.24	X	Y	Z
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O-Ring on pilot piston

00 No O-Ring

Port sizes

V2

C2

Pil

02

G 3/8

G 3/8

G 1/4

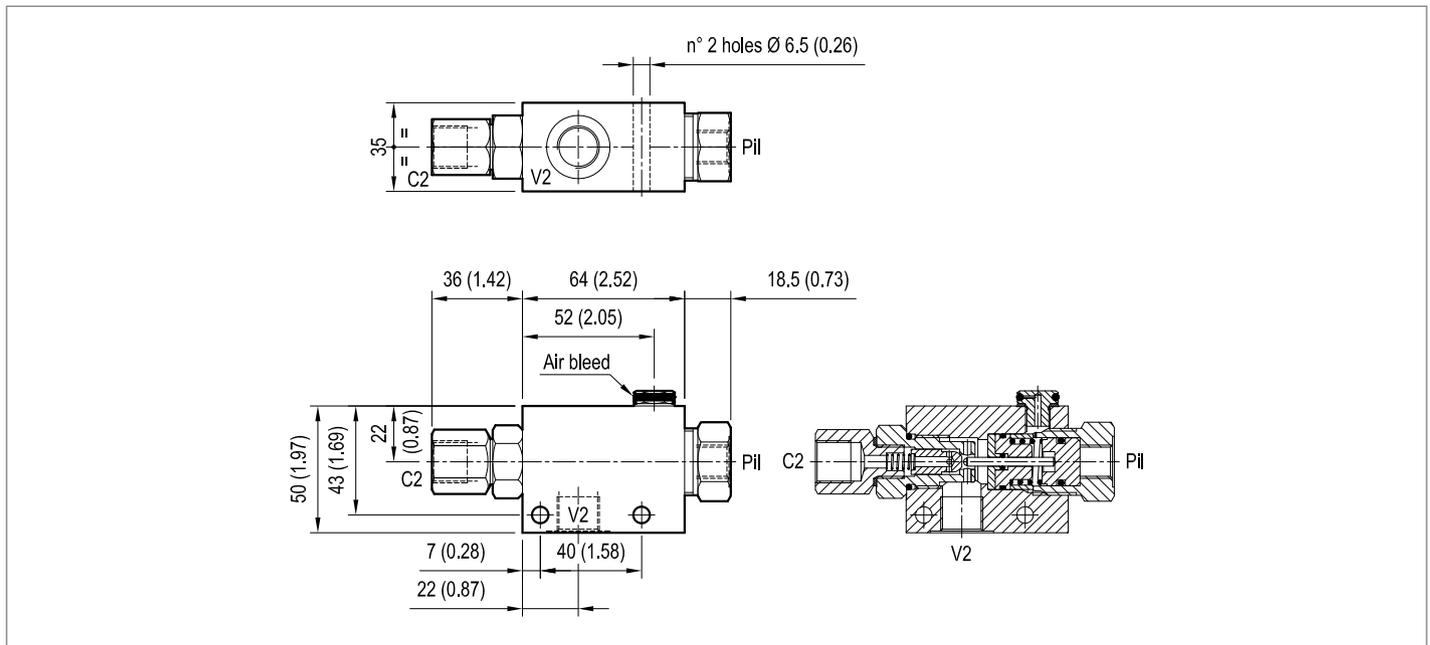
	SPRINGS
	Cracking pressure bar (psi)
00	2 (29)
01	8 (116)

Preferred types

Type	Material number
055224000200000	R930002335
055224000201000	R930002336

Type	Material number

Dimensions



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