

# Pilot operated check, dual

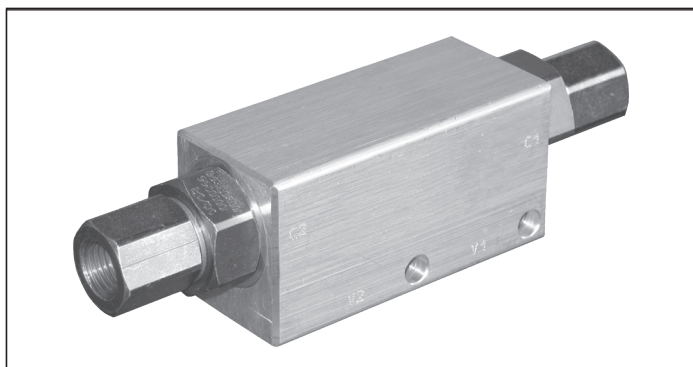
VSO-DE-DL

05.53.03 - X - 09 - Z

**RE 18307-21**

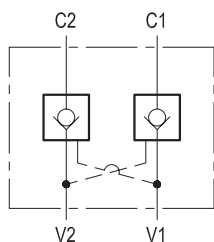
Edition: 03.2016

Replaces: 09.2011



## 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.

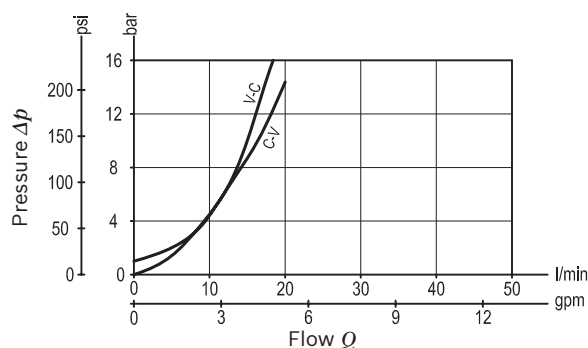


## Technical data

Max operating pressure port C2-C1	350 bar (5000 psi)
Max operating pressure port V2-V1	210 bar (3000 psi)
Max. flow	20 l/min. (5 gpm)
Weight	0.7 kg (1.5 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 <sup>2</sup> /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.

## Characteristic curve



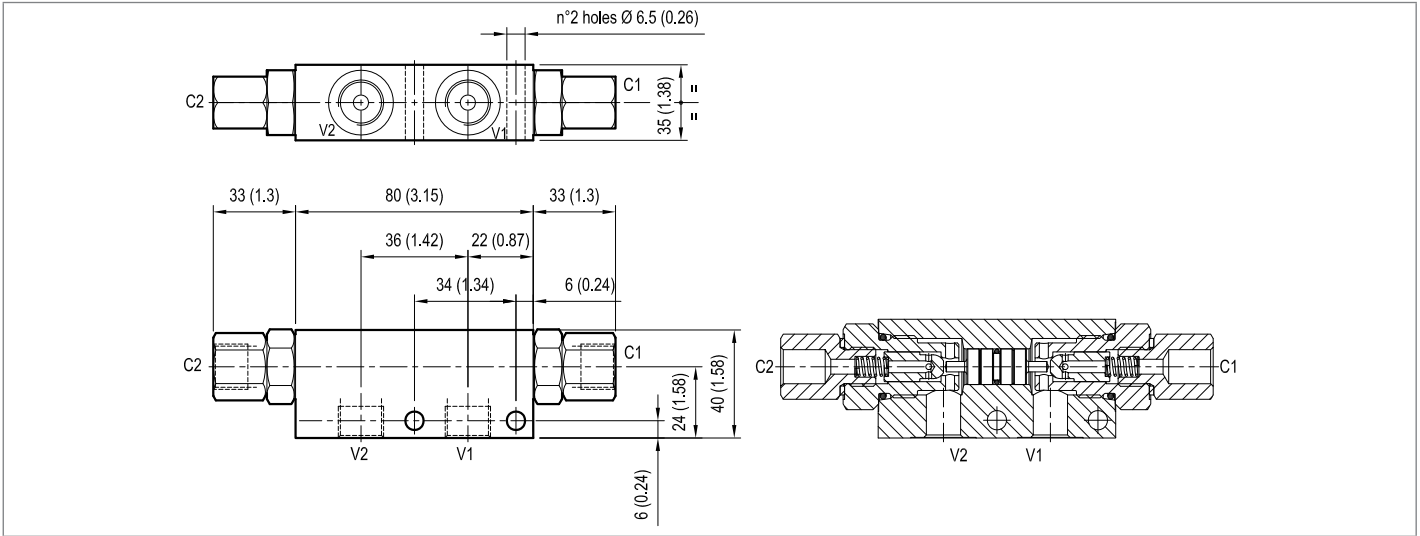
Ordering code

05.53.03		X	09	Z
Pilot operated check, dual				SPRINGS
O-Ring on pilot piston		Pilot ratio		Cracking pressure bar (psi)
00	No O-Ring	4 : 1		00 only for X=00 and X=37 3 (44)
10	With O-Ring	4 : 1		01 only for X=00, X=10 and X=37 8 (116)
37	No O-Ring	9 : 1		
Port sizes		V1 - V2	C1 - C2	
09		G 1/4	G 1/4	

Preferred types

Type	Material number	Type	Material number
055303000900000	R930002424	055303370901000	R930002438
055303370900000	R930002437	055303000901000	R930002425
055303100901000	R930002433		

Dimensions



**Bosch Rexroth Oil Control S.p.A.**  
Via Leonardo da Vinci 5  
P.O. Box no. 5  
41015 Nonantola – Modena, Italy  
Tel. +39 059 887 611  
Fax +39 059 547 848  
compact-hydraulics-pib@boschrexroth.com  
www.boschrexroth.com/compacthydraulics

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