

RE 18316-50/12.22 Replaces: 03.22

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Description

OV Series

Flow is always allowed to pass from A to B when pressure at A rises above the spring bias pressure and the poppet is pushed from the seat. The valve is normally closed (checked) from B to A; when sufficient pilot pressure is present at Pil port (X), the annular pilot area pushes the poppet from its seat and flow is allowed from B to A. Precision machining and hardening process allow virtually leak-free performance in the checked condition. The valve is available in different sizes and versions for different flow ranges, as specified by the tables of the Technical data, Performance diagrams and Dimensions.

Techni	cal	data	

Code	Pressure P max bar (psi)	Flow Q max I/min (gpm)	Weight kg (lbs)	Pilot ratio
OV 7	350 (5000)	15 (4)	0.75 (1.65)	14:1
OV 10	350 (5000)	35 (9)	1.04 (2.29)	5:1
OV 13	350 (5000)	50 (13)	1.42 (3.13)	5:1
OV 19	250 (3600)	100 (26)	2.3 (5.1)	3.2:1
OV 25	250 (3600)	150 (40)	4.3 (9.5)	3.2:1
OV 32	250 (3600)	150 (40)	4.5 (9.9)	3.2:1

Steel body, zinc plated

MTTFD: 150 years see RE 18350-51

Advantages

-Very compact design and inline mounting for space saving. -Mounting position is unrestricted. -Different values of cracking pressure are available for A-B flow (see the relevant table). -Six sizes provide great adaptability to the system.

Pilot operated check valves Single poppet type



19

90

20

FLOW - Q

120

30

10

0.5 0 0

Ó

0

30

10

60

Std. Cracking pressure

l/min

gpm

l/min

gpm

150

40

Х

0.5 bar (7.25 psi)

Dimensions



Ports size / Dimensions

	Ports size		Hex	L	
Code	A-B	Х	(inches)	mm (inches)	
OV 7	G 1/4	G 1/4	36 (1.42)	98 (3.86)	
OV 10	G 3/8	G 1/4	41 (1.61)	106 (4.17)	
OV 13	G 1/2	G 1/4	46 (1.81)	119 (4.69)	
OV 19	G 3/4	G 1/4	55 (2.17)	139 (5.47)	
OV 25	G 1	G 1/4	70 (2.76)	169 (6.65)	
OV 32	G 1-1/4	G 1/4	70 (2.76)	177 (6.97)	

Applications

Ideal to lock cylinders in a leak free mode in order lock or clamp loads. They are non-modulating ON-OFF valves suitable for holding applications, but unsuitable to control the motion of overrunning loads which would cause a loss of pilot pressure. They should not be used for paired cylinders and, when fitted to the cylinder annular chamber, the valve pilot ratio should be significantly higher than the cylinder ratio. In case of doubt, please consult us.

Ordering code



Do not specify for the standard pressure 0.5 bar (7.25 psi)

Note: The OV32 cracking pressure is 0.5 bar (7.25 psi)

Туре	Material number	Туре	Material number	Туре	Material number
OV 7	R932500363	OV 19/8	R932006936		
OV 10	R932500364	OV 19/15	R932006937		
OV 10/4	R932006932	OV 25	R932500369		
OV 10/5	R932006933	OV 25/4	R932006938		
OV 13	R932500366	OV 25/8	R932006939		
OV 13/4	R932006934	OV 25/10	R932006940		
OV 19	R932500367	OV 32	R932500370		

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Subject to change.