

RE 18316-51/10.09

1/2

Pilot operated check valves Poppet type, with pre-opening

В



OVP 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 pre-opening poppet from its seat and oil starts flowing from B to A; as pilot pressure increases, also the main poppet is lifted from its seat and the opening area B-A becomes larger. 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.

Technical data

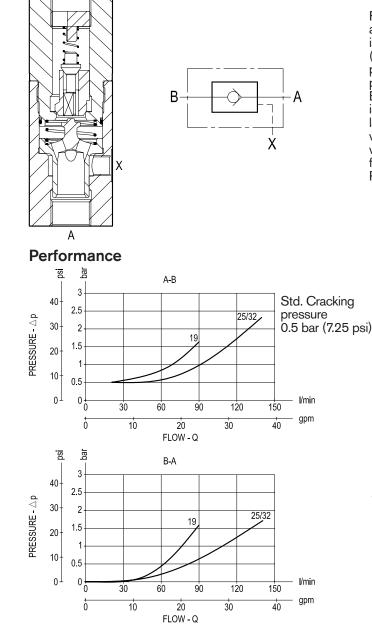
	Code	Pressure P max bar (psi)	Flow Q max I/min (gpm)	Weight kg (lbs)	Pilot ratio		
					Main opening	Pre opening	
	OVP 19	250 (3600)	100 (26)	2.6 (5.8)	1:4.5	1:11	
)	OVP 25	250 (3600)	150 (40)	5.0 (11)	1:4	1:13	
	OVP 32	250 (3600)	150 (40)	5.2 (11.5)	1:4	1:13	
	Steel body zinc plated						

Steel body, zinc plated

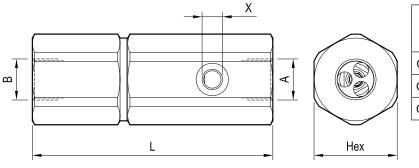
Advantages

-Very compact design and inline mounting for space saving. -Mounting position is unrestricted.

-Three sizes provide great adaptability to the system.



Dimensions



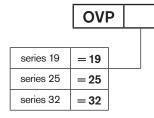
Ports size / Dimensions

	Ports	size	Hex	L
Code	A-B	Х	mm (inches)	mm (inches)
OVP 19	G 3/4	G 1/4	55 (2.17)	159 (6.26)
OVP 25	G 1	G 1/4	70 (2.76)	186 (7.32)
OVP 32	G 1-1/4	G 1/4	70 (2.76)	193 (7.60)

Applications

Ideal to lock cylinders in a leak free mode in order lock or clamp loads. They are ON-OFF valves suitable for holding applications; the pre-opening does provide a degree of smooth opening and allows some motion control, but these valves are not designed to control 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 main pilot ratio should be significantly higher than the cylinder ratio. In case of doubt, please consult us.

Ordering code



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Cracking pressure (free flow) is always 0.5 bar (7.25psi)

9	Material number	Туре	Material number	Туре	Material number	
'P19	R932500377					
/P25	R932500378					
VP32	R932500379					
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ax +39 052	Emilia, Italy 22 517 277 22 517 125 control.com		The data specified above only serve to describe the product. No statements concerning a certain condition or suitability for a certain application can be derived from our information. The information given does not release the use from the obligation of own judgment and verification. It must be remembered our products are subject to a natural process of wear and aging.			

Subject to change.