

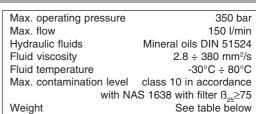
VPF... / VPM...

VPF / VPM... IN LINE MOUNTING

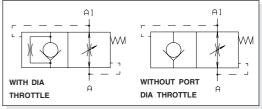
ONE-WAY CHECK VALVES

One-way check valves type VP.. are mounted directly onto the cylinder ports to prevent uncontrolled load drop in case of hydraulic system failure. A disc supported in the raised position by a spring allows $A \rightarrow A1$ free flow. Under normal conditions reverse flow A1→A takes place as usual, but should the reverse (reaction) flow rate go beyond the value set for the valve, the disc will position itself in such a way as to interrupt completely or partially the A1 \rightarrow A a flow. Total or partial A1 \rightarrow A flow shut-off is ensured in the first case by a nearly perfect disk seal on the valve seat, which allows the load blocking in the position it happens to be at the moment of failure. In the second case, on the other hand, a choked opening provided on the disk allows for a blow-by to take place in the direction A1→A, such as to make the load drop slowly. These valves are manufactured in heat-treated steel.

For the correct use it is advisable to carry out adjustment "C" so that the reaction flow is 1.5 times the flow rate of the system.



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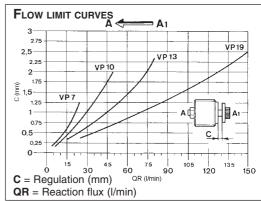


Table 1 - Reaction flow settings (I/min)								
Valve type	Α	В	С	D	E	F	G	Н
VP*07	4	6	10	16	25*			
VP*10	6	10	16	25	40	50*		
VP*13	16	25	40	50	60	80*		
VP*19	25	40	50	60	80	100	1251	50*
(*)Standard setting if is omit the code								

TABLE 2	Ø THROTTLE PORT DIA REQUEST						
Valve type	D	Ø	Ø	Ø	Ø		
VP07	1/4"BSP	0.5	0.8	1			
VP10	3/8"BSP	0.5	8.0	1.2	1.5		
VP13	1/2"BSP	0.5	8.0	1.2	1.5		
VP19	3/4"BSP	0.5	1.2	1.5	2		

ORDERING CODE

VP*

F = Check valve with internal thread **M** = Check valve

with internal/external thread

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Size: 07 / 10 / 13 / 19

*

Reaction flow setting (I/min) see Table 1

Omit for setting standard (*) A/B/C/D/E/F/G/H

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Ø throttle port dia - see Table 2 (omit if not required)

05 = 0.5 mm

08 = 0.8mm

10 = 1 mm

15 = 1.5 mm

20 = 2 mm

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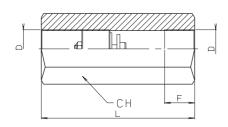
No variant

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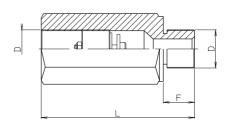
Serial No.

For "VP"one-way cartridge check valves, see Chapter V.

OVERALL DIMENSIONS



Valve type	L	F	D	СН	Weight (Kg)
VPF07	48	12	1/4"BSP	19	0.075
VPF10	52	12	3/8"BSP	22	0.097
VPF13	62	14	1/2"BSP	27	0.160
VPF19	72	16	3/4"BSP	36	0.350



Valve	L	F	D	СН	Weight
type					(Kg)
VPM07	50	12	1/4"BSP	19	0.075
VPM10	58	12	3/8"BSP	22	0.105
VPM13	70	14	1/2"BSP	27	0.185
VPM19	78	16	3/4"BSP	36	0.365