

VP...

VP... ONE-WAY CARTRIDGE CHECK VALVES

For the correct use it is

advisable to carry out ad-

justment "C" so that the

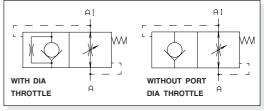
reaction flow is 1.5 times

the flow rate of the system.

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

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 →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 heattreated steel.

 $\begin{array}{cccc} \text{Max. operating pressure} & 350 \text{ bar} \\ \text{Max. flow} & 150 \text{ l/min} \\ \text{Hydraulic fluids} & \text{Mineral oils DIN 51524} \\ \text{Fluid viscosity} & 2.8 \div 380 \text{ mm}^2\text{/s} \\ \text{Fluid temperature} & -30^{\circ}\text{C} \div 80^{\circ}\text{C} \\ \text{Max. contamination level} & \text{class 10 in accordance} \\ & \text{with NAS 1638 with filter } \beta_{25}\text{>75} \\ \text{Weight} & \text{See table below} \\ \end{array}$



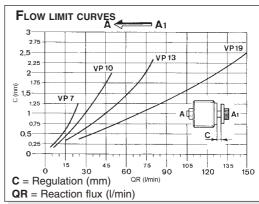


Table 1 - Reaction flow settings (I/min)										
Valve type	A	В	С	D	E	F	G	Н		
VP*07	4	6	10	16	25*					
VP*10	6	10	16	25	40	50*				
VP*13	16	25	40	50	60	80*				
VP*19	25	40	50	60	80	100	1251	50*		
(*)Standard setting if is omit the code										

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	0.8	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

Check valve (cartridge only)

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Size: 07 / 10 / 13 / 19

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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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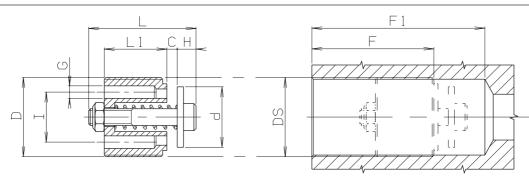
No variant

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Serial No.

For "VP*" in line mounting oneway check valves, see Chapter VI.

OVERALL DIMENSIONS



Valve type	Reaction flow (I/min)	PRESSURE max. (bar)	I	G	D/DS	d	L1	С	Н	L	F	F1	Weight (Kg)
VP07	25	350	8.5	2.4	1/4"BSP	9.5	8	es	4.5	19	24	35	0.007
VP10	50	350	11	3.5	3/8"BSP	12.5	11	≧	5	23	26	37	0.012
VP13	80	350	13	4.5	1/2"BSP	15	13	Ö	6	29	30	45	0.020
VP19	150	350	16	6	3/4"BSP	18.5	18	See	6.5	34	38	54	0.040