



a In-line Finger Filter

b Plug

Description

Armaş "HCV" model valve is hydraulically controlled check valve which operates with line pressure and prevents back-flow in system. When downstream pressure value exceeds upstream pressure value, valve is closed as wholly sealed without causing surge. When upstream pressure value exceeds downstream pressure value, check valve is opened by itself slowly. So it damps pressure surges formed during start-up.

Features

- Opening-closing speed of check valve may easily be adjusted.
- Valve may be operated by mounting it in vertical or horizontal position in system
- Minimum opening pressure of valve is 0.7bar.

Adjustment

- Operate pump, open main valve on network and deliver water to the system.

Typical Application



1 Pump

2 Air Valve

3 Hydraulic Check Valve

Working Pressure Range	bar (kg/cm ²)	psi (pound/inch ²)
Standard	0,5-16 bar	7,5-240 psi
High Pressure (Optional)	0,5-25 bar	7,5-360 psi

Hydraulic Check Valve Sizing Table*

Valve Diameter	Proposed Ideal Flow Rate	Valve Diameter	Proposed Ideal Flow Rate
2" - 50 mm	15 m ³ /h	5" - 125 mm	100 m ³ /h
2 1/2" - 65 mm	24 m ³ /h	6" - 150 mm	130 m ³ /h
3" - 80 mm	36 m ³ /h	8" - 200 mm	225 m ³ /h
4" - 100 mm	56 m ³ /h	10" - 250 mm	350 m ³ /h
		12" - 300 mm	510 m ³ /h

* Recommended flow rate values for minimum head loss.

Troubleshooting

Failure	Causes	Correcting/Repair
Valve not opening	<ul style="list-style-type: none"> Line pressure may be low. 	<ul style="list-style-type: none"> Check upstream pressure and ensure required upstream pressure.
Valve not closing	<ul style="list-style-type: none"> Diaphragm may be punctured. Foreign substances may exist in diaphragm seat. Finger filter may be clogged. 	<ul style="list-style-type: none"> Check diaphragm and replace with the new one if it is punctured. Check diaphragm seat and remove foreign substances if any. Clean if it is clogged.

Order Information

Please submit following information to our sales department while ordering.

Maximum flow rate _____ m³/h

Maximum network/line pressure _____ bar

Main line size _____ mm

Valve connection type _____

Maximum upstream pressure _____ bar

Sample order form

Model	Connection	Size	Control Feature	Additional Features	Options
67-67D	F: Flanged (ISO-ANSI)	2"-16"	Hydraulic Check Valve	PG: Pressure Gauge SV-3: 3-Way Selector Valve	Position
66-66D-64	TH: Threaed (BSPT-NPT)	1½"-3"			Indicator
63-63D	VIC: Grooved End	2"-4"			
67	F	6"	HCV	PG	PIR