"UNPARALLELED PERFORMANCE AND SAFETY UNDER PRESSURE!" ®

NuQuip®

Model CV Series
Check Valves

- Pressures up to 30,000 psi (2,068 bar)
- Zero leak design
- Low cracking pressure of 5 psi (0.3 bar)
- Multiple port and seal options
- Precision-machined stainless steel construction

DESCRIPTION

The NuQuip® Model CV Series Check Valve is an in-line, piston style valve offering a zero leak design for applications requiring working pressures up to 30,000 psi (2,068 bar). The check valve is built with a spring-tension mechanism and a low cracking pressure of 5 psi (0.3 bar). When the pressure drops below the cracking pressure limit, the spring will close the valve to prevent back-flow into the liquid stream.

APPLICATION

The NuQuip® Model CV Series Check Valve is used in hydrostatic pressure systems to monitor the flow of liquids and prevent backflow in the opposite direction. The zero leak design prevents leaks from entering the system fluids. Available in working pressures up to 30,000 psi (2,068 bar).

MATERIALS

Body: Heat-treated, stainless steel

VALVE CONFIGURATION

Port Sizes: 0.13 in. to 0.50 in.
(3.2 mm to 12.7 mm)
Port Styles: NPT, MS, HP, MP, Type M, Tube OD Seal

OPERATING CONDITIONS

Maximum Pressure: 30,000 psi (2,068 bar)
Cracking Pressure: 5 psi (0.3 bar)
Temperature: 32º F to 120º F (0º C to 49º C)
Services: Water, oil, and other liquids

PRESSURE RATINGS

Model	Maximum Working Pressure*		Port Size	Port Type
	psi	bar		
CV10	10,000	690	3/4" - 1"	NPT
CV20	15,000	1,034	1/4" - 1/2"	NPT
	20,000	1,380	3/8" - 1"	M/P
	20,000	1,380	9/16" - 1"	Type M
	20,000	1,380	3/8" - 5/8"	MS
CV30	15,000	1,034	1/4" - 1/2"	NPT
	20,000	1,380	1/4" - 1/2"	MS
	20,000	1,380	1/4" - 3/4"	M/P
	30,000	2,068	9/16" - 1"	Type M
	30,000	2,068	1/4" - 9/16"	H/P

* Maximum working pressure is dependent on port size and port type.

LEGEND

NPT = National Pipe Thread
MS = Military Specification MS33649 (O-ring boss)
H/P = High-pressure
M/P = Medium-pressure
Type M = Cone seal common on high-pressure hoses

AIRMO INC. ®
PRESSURE TECHNOLOGIES