

**"UNPARALLELED PERFORMANCE AND SAFETY UNDER PRESSURE!"**®



NuQuip®  
**Model HCV Series**  
Control Valves

- Pressures up to 20,000 psi (1,379 bar)
- Two position valve
- Double pilot air-actuated
- Multiple port sizes and types
- Base mounted design
- Stainless steel construction

## DESCRIPTION

NuQuip® Model HCV Series Control Valves are pneumatically-operated liquid control valves, specially designed for high pressures and high flow rates.

They are two-position valves that can be used for 2-way or 3-way functions. The integral air actuators provide rapid switching even at maximum operating liquid pressure, using only 60 to 100 psi air (4.2 to 6.9 bar air).

This control valve utilizes elastomer and metal-to-metal seals, to provide positive sealing and resistance to debris in the liquid stream. Multiple port choices are available, and custom designs will be considered.

## APPLICATION

The NuQuip® Model HCV Series Control Valve is well-suited for use in liquid control applications that require high pressures as well as high flows. These valves are available in 10,000 and 20,000 psi versions (689 and 1,379 bar versions), all with liquid paths optimized for maximum flow. The stainless steel construction and metal-to-metal seals make this valve very durable, with little maintenance required. The HCV can be used with water, oil, or other liquids.

## VALVE CONFIGURATION

Operation:	Double pilot air-actuated
Flow Capacity:	Optimized for each port size
Port Styles:	NPT or medium pressure
Seat Style:	Metal-to-metal
Mounting:	Base has 3/8"-16 tapped holes

## OPERATING CONDITIONS

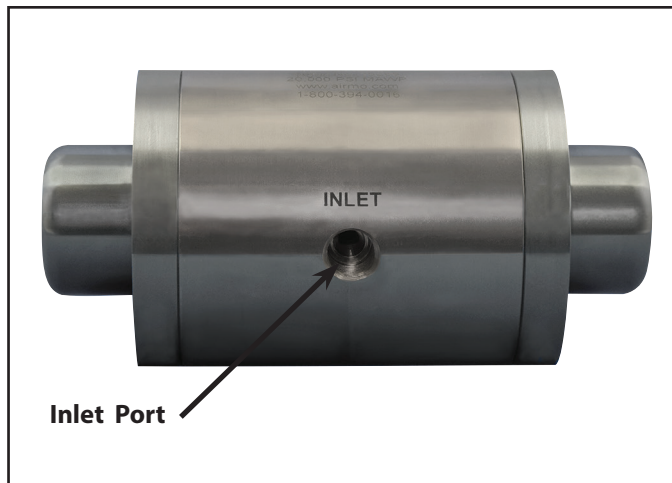
Maximum Pressure:	20,000 psi (1,379 bar)
Temperature:	32° F to 120° F (0° C to 49° C)
Services:	Water, oil, or other liquids

**MAXIMUM PRESSURE**  
**20,000 psi**  
**1,379 bar**

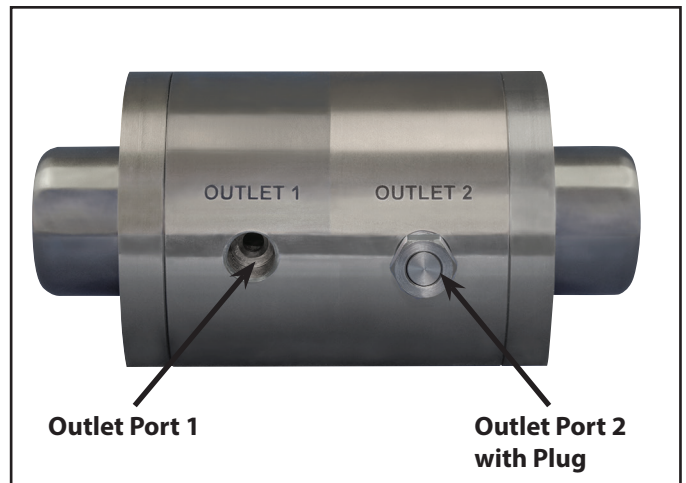
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### Control Valve Specifications

Model	Maximum Working Pressure		Liquid Port	Air Pressure		Pilot Port
	psi	bar		psi	bar	
HCV-10-06NPT	10,000	689	3/8" NPT	60 to 130	4.2 to 9.0	1/8" NPT
HCV-10-08NPT	10,000	689	1/2" NPT	60 to 130	4.2 to 9.0	1/8" NPT
HCV-10-12NPT	10,000	689	3/4" NPT	60 to 130	4.2 to 9.0	1/8" NPT
HCV-20-06MP	20,000	1,379	3/8" Medium Pressure	100 to 130	6.9 to 9.0	1/8" NPT
HCV-20-09MP	20,000	1,379	9/16" Medium Pressure	100 to 130	6.9 to 9.0	1/8" NPT
HCV-20-12MP	20,000	1,379	3/4" Medium Pressure	100 to 130	6.9 to 9.0	1/8" NPT



**Figure 1. Model HCV Control Valve Inlet Port Location.**



**Figure 2. Model HCV Control Valve Outlet Ports.**

*Note: All Model HCV Series Control Valves come with plug in Outlet Port 2 for operation as a 2-way valve. Remove the plug for 3-way operation.*



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