

Specifications

**Hard Seated 500 psi (34 bar), 2-Way Valves
Tapped 1/2", 3/4", 1", 1-1/4", 1-1/2"**

SPECIFICATIONS

Media: Steam • Hot or Cold Water • Air & Inert Gases*

Pressure: Maximum Operating Pressure: 500 psi (34 bar)**

Temperature Range: -40° TO 450° F (-40° TO 232°C)

These valves are designed for the majority of applications where a 2-Way valve is required. The bodies are machined from the highest quality Navy-M bronze with stainless steel stem and seats, spring-loaded packers and stainless steel spiral-wound gaskets. The body, adapter and yoke are of cast bronze. The exclusive swivel stem design reduces side load on the stem packer for longer packer life.

These valves are available with a choice of large or small diaphragm actuators. The large actuator permits operation of the valve at maximum rated pressure at any port with 30 to 40 PSI (2.1 to 2.8 bar). The small actuator provides some savings in space, but its use reduces the usable operating pressure of the valve to the limits shown in the Model Selection Charts. The large and small diaphragm actuators are interchangeable within a given basic size. The actuator may be replaced with the valve under pressure but de-energized.

2WNO & 2WNC Valves may be ported backwards with the media pressure piped to Port No. 2. This brings the pressure under the seat, removing the stem packing from continuous pressure. For vacuum service, 2WNO & 2WNC Valves should be piped backwards with the vacuum to Port No. 2. This brings the vacuum under the seat and has no affect on the stem packing, which is designed to be pressurized from within. Internal areas in the valves are designed for higher Cv ratings. Higher Cv ratings offer faster recovery times for temperature and faster cycle rates.

To order gas tested valves, add suffix (2) to the Model No. **Example: C284-20012** To order valves with Molded PTFE diaphragms, change the fourth digit to (6). **Example: C286-2001**

* See Page 2.

** See maximum operating pressure for individual valves in "Model Selection Chart."

For dimensional data, see page 39.

Use 30 to 40 psi
(2.1 - 2.8 bar)
Air Pressure on Top



Model Selection Chart

Basic Valve Size	Port Tap (NPTF)	Description	Cv					
			Large Top		Small Top		Port 1 to Port 2	Port 2 to Port 1
			psi	bar	psi	bar		
1/2"	1/2"	2WNC	Model No. C284-2001		C284-2005		5.6	6.1
			Pressure Rating 500 34.0		450 31.0			
	3/4"	2WNC	Model No. C284-2002		C284-2006		7.4	7.0
			Pressure Rating 500 34.0		450 31.0			
	1/2"	2WNO	Model No. C284-2003		C284-2007		6.1	6.5
			Pressure Rating 500 34.0		375† 26.0			
3/4"	2WNO	Model No. C284-2004		C284-2008		7.6	8.0	
		Pressure Rating 500 34.0		375† 26.0				
1"	1"	2WNC	Model No. C284-4001		C284-4005		12.8	12.3
			Pressure Rating 500 34.0		375† 26.0			
	1 1/4"	2WNC	Model No. C284-4002		C284-4006		17.0	16.3
			Pressure Rating 500 34.0		375† 26.0			
	1"	2WNO	Model No. C284-4003		C284-4007		13.2	12.6
			Pressure Rating 500 34.0		275† 19.0			
1 1/4"	2WNO	Model No. C284-4004		C284-4008		17.9	17.0	
		Pressure Rating 500 34.0		275† 19.0				
1 1/2"	1 1/2"	2WNC	Model No. C284-6002		C284-6006		32.5	31.0
			Pressure Rating 500 34.0		250 17.2			
	1 1/2"	2WNO	Model No. C284-6004		C284-6008		32.0	32.9
			Pressure Rating 450‡ 31.0		200‡ 13.8			

‡ Pressure rating shown is for use with inlet at Port 2. If inlet is piped to Port 1, line pressures up to 500 psi are permissible.

† Pressure rating shown is for use with inlet at Port 2. If inlet is piped to Port 1, line pressures up to 350 psi are permissible.

