

Hard Seated 500 psi (34 bar), 2-Way 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 to allow for gravity drainage through the valve where evacuation of most of the fluid is desired. The valve stem design reduces wear on the packer, and all models incorporate the exclusive Sinclair Collins swivel stem design to reduce side load on the packer for longer packer life. The stem-packer is spring loaded and self-adjusting for reduced maintenance. Spiral wound gaskets consisting of stainless steel and filler material are utilized to seal the seats and adapter. The body, adapter and yoke are of cast bronze. Diaphragm springs are high quality spring steel and a proprietary coating is applied for maximum corrosion resistance. These valves are equipped with large or small size diaphragm actuators. The large actuator permits operation of the valve at maximum rated pressure at any port with recommended actuated air pressure of 40 psi (2.8 bar) (If lesser line pressures are handled, lesser air pressure can be used).

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 Chart. The large and small diaphragm actuators are interchangeable within a given size. The diaphragm actuator may be replaced with the valve under pressure but de-energized.

* See Page 2.

** See maximum 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. C294-2001		C294-2005		6.5	6.1
			Pressure Rating 500 34.0		450 31.0			
	3/4"	2WNC	Model No. C294-2002		C294-2006		8.4	7.6
			Pressure Rating 500 34.0		450 31.0			
	1/2"	2WNO	Model No. C294-2003		C294-2007		6.9	6.4
			Pressure Rating 500 34.0		375† 26.0			
3/4"	2WNO	Model No. C294-2004		C294-2008		8.8	8.1	
		Pressure Rating 500 34.0		375† 26.0				
1"	1"	2WNC	Model No. C294-4001		C294-4005		13.2	13.5
			Pressure Rating 500 34.0		375† 26.0			
	1 1/4"	2WNC	Model No. C294-4002		C294-4006		18.1	16.8
			Pressure Rating 500 34.0		375† 26.0			
	1"	2WNO	Model No. C294-4003		C294-4007		13.8	13.0
			Pressure Rating 500 34.0		275† 19.0			
1 1/4"	2WNO	Model No. C294-4004		C294-4008		17.9	16.3	
		Pressure Rating 500 34.0		275† 19.0				
1 1/2"	1 1/2"	2WNC	Model No. C294-6002		C294-6006		37.7	37.9
			Pressure Rating 500 34.0		250 17.2			
	1 1/2"	2WNO	Model No. C294-6004		C294-6008		36.0	37.2
			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.