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

SPECIFICATIONS

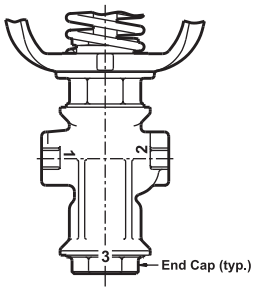
MEDIA: Steam • Hot or Cold Water • Air & Inert Gases*
PRESSURE: Maximum Operating Pressure: 500 psi (34.5 bar)**
TEMPERATURE RANGE: -40° TO 450°F (-40° TO 232°C)

This basic 1/2" valve is available in 2-way and 3-way types. The 2-way normally closed valves are inline ported. The 2-way normally open valves may be ordered with angle or inline porting, as shown in the Model Selection Chart. The piping variations for the 3-way as well as the 2-way are shown in the Piping Connection chart. 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, adapter and botom cap. 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 actuator may be replaced with the valve under pressure but de-energized. **To order gas tested valves, add suffix (2) to the Model No. Example: C264-20012. To order valves with molded PTFE diaphragms, change the fourth digit to (6). Example: C266-2001. For dimensional data, see page 40.**

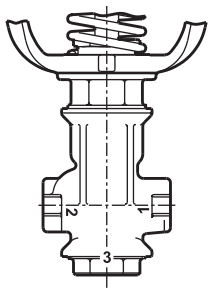
* See Page 2. ** See maximum pressure for individual valves in "Model Selection Chart."

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

Valve Type		Piping Connection Port 1	Port 2	Port 3
2-Way	Normally Open Angle Piped	Plugged	Cylinder or Inlet	Inlet or Cylinder
	Normally Open Inline Piped	Cylinder	Inlet	Plugged
	Normally Closed	Inlet	Cylinder	Plugged
3-Way	Normally Open	Drain	Cylinder	Inlet
	Normally Closed	Inlet	Cylinder	Drain
3-Port	Directional Valve	Outlet	Inlet	Outlet
	Mixing Valve	Inlet	Outlet	Inlet



Angle Porting
2-Way N.O. - 2-Way N.C
3-Way N.O. - 3-Way N.C.



Inline Porting
2-Way N.O.

Model Selection Chart

Basic Valve Size	Port Tap (NPTF)	Description		Large Top psi	Large Top bar	Small Top psi	Small Top bar	CV Port 1 to Port 2	CV Port 2 to Port 1	CV Port 2 to Port 3	CV Port 3 to Port 2
1/2"	1/2"	2WNC (Inline Porting)	Model No.	C264-2001		C264-2009		6.2	6.3	-	-
			Pressure Rating	500	34.0	450	31.0				
	3/4"		Model No.	C264-2002		C264-2010		7.5	6.8	-	-
			Pressure Rating	500	34.0	450	31.0				
	1/2"	2WNO (Inline Porting)	Model No.	C274-2001		C274-2003		6.1	6.5	-	-
			Pressure Rating	500	34.0	375(5)	26.0				
	3/4"		Model No.	C274-2002		C274-2004		7.6	8.0	-	-
			Pressure Rating	500	34.0	375(5)	26.0				
	1/2"	2WNO (Angle Porting)	Model No.	C264-2003		C264-2011		-	-	7.4	8.8
			Pressure Rating	500	34.0	375(1)	26.0				
	3/4"		Model No.	C264-2004		C264-2012		-	-	9.6	12.0
			Pressure Rating	500	34.0	375(1)	26.0				
	1/2"	3WNC	Model No.	C264-2005		C264-2013		6.2	6.3	7.4	8.8
			Pressure Rating	500	34.0	500(2)	34.0				
	3/4"		Model No.	C264-2006		C264-2014		7.6	6.8	9.6	12.0
			Pressure Rating	500	34.0	500(2)	34.0				
	1/2"	3WNO	Model No.	C264-2007		C264-2015		6.2	6.3	7.4	8.8
			Pressure Rating	500 (3)	34.0	375(4)	26.0				
	3/4"		Model No.	C264-2008		C264-2016		7.6	6.8	9.6	12.0
			Pressure Rating	500 (3)	34.0	375(4)	26.0				

CAUTION - SEE CHART TO THE LEFT

(1) Pressure rating shown is for inlet at Port 3. With inlet at Port 2, pressures up to 450 psi are permissible.

(2) When used as a **Directional Valve**, pressures must not exceed 340 psi. As a **Mixing Valve**, pressures up to 500 psi are permissible at Port 1. However, pressure at Port 3 must not exceed 325 psi.

(3) When used as a **Mixing Valve**, pressures up to 500 psi are permissible at Port 3. However, pressures at Port 1 must not exceed 400 psi.

(4) When used as a **Directional Valve**, pressures up to 450 psi are permissable. As a **Mixing Valve**, pressures up to 400 psi are permissible at Port 1; pressures up to 450 psi at Port 3.

(5) Pressure rating shown is for inlet at Port 1. With inlet at Port 2 pressures up to 450 psi are permissable.