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C264-2003	26	C264-60052	30	C284-00071	14	C284-60021	16	C374-2003	6
C264-2004	26	C264-6006	30	C284-0008	20	C284-60022	24	C374-2004	6
C264-2005	26	C264-60061	18	C284-00081	14	C284-6004	24	C374-2005	6
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C264-20061	18	C264-6009	30	C284-2002	24	C284-60061	16		

Quality from the Start

Sinclair Collins is an ISO 9001 registered facility. Bronze and stainless steel components are machined in our own facility. All components must meet our high performance specifications and quality control standards.

After assembly, each valve is fully tested at rated pressure prior to shipment and all material and workmanship are covered by a two-year warranty.

**WARNING**

FAILURE OR IMPROPER SELECTION OR IMPROPER USE OF THE PRODUCTS AND/OR SYSTEMS DESCRIBED HEREIN OR RELATED ITEMS CAN CAUSE DEATH, PERSONAL INJURY AND PROPERTY DAMAGE.

This document and other information from Parker Hannifin Corporation, its subsidiaries and authorized distributors provide product and/or system options for further investigation by users having technical expertise. It is important that you analyze all aspects of your application, including consequences of any failure, and review the information concerning the product or system in the current product catalog. Due to the variety of operating conditions and applications for these products or systems, the user, through its own analysis and testing, is solely responsible for making the final selection of the products and systems and assuring that all performance, safety and warning requirements of the application are met.

The products described herein, including without limitation, product features, specifications, designs, availability and pricing, are subject to change by Parker Hannifin Corporation and its subsidiaries at any time without notice.

Offer of Sale

The items described in this document are hereby offered for sale by Parker Hannifin Corporation, its subsidiaries or its authorized distributors. This offer and its acceptance are governed by the provisions stated in the full "Offer of Sale".

Valve Design

Sinclair Collins valves are designed and quality-built to provide long, trouble-free performance. They combine economical automatic operation with precision control and maximum dependability.

THE SERIES C264, C274, C284, C294 VALVES. These diaphragm-operated valves are produced in two basic types, hard-seat and soft-seat. The 500 psi (34 bar) hard-seat has a metal-to-metal seat and can be used in a majority of applications. In lower pressure applications where a hard-seated valve is not acceptable, the 400 psi (28 bar) soft-seated valve is recommended. This valve utilizes stainless steel-filled PTFE rings in the stems to provide bubbletight seal. Both of these valve types employ an exclusive swivel-stem design that reduces side load on the packer to assure smoother, faster operation and longer packer life. The chevron-packer is spring loaded and self-adjusting to reduce maintenance. The heat-treated stainless steel seat rings used in the hard-seat valves are skirted to provide minimum fluid by-pass and minimum shock during valve shift. In all 3-way valves, upper and lower seat rings are identical and interchangeable to simplify inventory and maintenance. Standard bodies are Navy-M bronze with stainless steel trim. Stainless steel/filler material spiral-wound gaskets are used. The 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 actuating 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 included on the individual catalog sheets. The large and small diaphragm actuators are interchangeable within a given size. The diaphragm assembly may be replaced with the valve under pressure but de-energized.

THE SERIES C244 VALVES. These diaphragm-operated 200 psi (14 bar) valves employ a single piece stem, as well as a new fixed height stem seal. The seal design has an integral spring which compensates for packer wear. Because only one seal is used, the cavity for the seal in the body is shallow and the bearing length in the body is correspondingly longer. The stainless steel upper seat cage, in addition to being drop-in, also serves as a diverter to help direct the flow through the valve. Standard bodies are cast bronze and the trim is of stainless steel. A spiral wound gasket consisting of stainless steel and filler material is also utilized to seal the upper seat. These valves are equipped with a single size diaphragm actuator per basic size. The actuator permits operation of the valve at a maximum rated pressure at any port with recommended actuating air pressure of 35 psi (2.4 bar). (If lesser line pressures are handled, lesser actuating air pressure can be used). The two piece top construction allows the diaphragm assembly to be changed in areas where head space is at a premium.

THE SERIES C304 VALVES. These 500 psi (34 bar) manifold mounted valves combine many of the features from the 500 psi (34 bar) hard-seated line-mounted valves with the numerous advantages of manifold mounting. These valves have spring-loaded stem packers, self-aligning stems, skirted stainless-steel seats, and bronze bodies. A cylinder operator is used for space savings. Manifold mounting simplifies original installation, reduces labor costs and saves energy by allowing piping to be insulated. The design allows for multiple valve manifolding as well as single-station installations. For in-service maintenance, the manifold valve is simply unbolted, removed and replaced in minutes.

LUBRICATION

1. Coat Packing Rings and Packer Bore with Dow Corning III Compound.

DIAPHRAGM REPLACEMENT

- Clean old rubber from surfaces.
- Insert all screws in cover and through diaphragm, do not elongate or re-punch holes in diaphragm.
- Assemble ring and install nuts loosely.
- Use valve piston to deform diaphragm against the cover and clamp in place.
- Tighten all nuts moderately.
- For more detailed instructions, see Bulletin H101.

"If it is possible that the ambient temperature may fall below freezing, the medium must be moisture free to prevent internal damage or unpredictable behavior."

Torque Requirements for 400 PSI & 500 PSI End Caps & Adapters			
Basic Valve Size	Thread	Torque	
		lb - ft	N - M
400 & 500	1-3/8 - 12	22±2	30±3
1/2"	1-3/4 - 12	95±5	129±7
1"	2-1/4 - 12	200±10	271±14
1½"	2-7/8 - 12	300±15	407±20

HOW TO ORDER

Refer to the Model Selection Charts and recommended Piping Connection charts on the following pages to order valves suitable for your Cv and pipe size requirements. If a 3-way valve is desired for 2-way service, it is necessary to plug the unused port. Refer to the Piping Connection chart as a guide. Complete Parts Data Charts are included for your convenience in ordering parts.

Valves for Steam and Hot & Cold Liquids



**500 psi
3-Way Valve**



**500 psi
Offset
2-Way Valve**



**200 psi
2-Way Valve**



**200 psi
3-Way Valve**



**400 & 500 psi
3-Way Valve**



**400 & 500 psi
3-Way Manifold Valve**



**400 & 500 psi
3-Way Valve**



**400 & 500 psi
Inline
2-Way Valve**

Soft Seated, 400 psi (28 bar) 2- & 3-Way Valves Tapped 1/4", 3/8"

SPECIFICATIONS

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

Pressure: Maximum Operating Pressure: 400 psi (28 bar)

Temperature Range: -40° TO 400°F (-40° TO 204°C)

This basic 1/4", soft seated valve is available in 2- and 3-Way types. These valves were designed for applications where a bubble-tight seal is required. This is done through the utilization of stainless steel reinforced PTFE rings on the stem.

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. The stem packer is spring loaded and self-adjusting for reduced maintenance and longer packer life. The stem is guided by an engineered proprietary polymer bearing pressed into the packer gland. Spiral wound gaskets consisting of stainless steel and filler material are utilized to seal the seats and adapter.

This valve is equipped with a single size diaphragm actuator. The actuator permits operation of the valve at the ratings shown in the Model Selection Chart. Two-piece construction is standard on this valve which allows the diaphragm assembly to be changed in areas where headspace is at a premium. The diaphragm assembly may be replaced with the valve under pressure but de-energized.

To order valves with Molded PTFE diaphragms, change the fourth digit in the Model Number to (6). Example: C266-0091

For dimensional data, see page 39.

Use 35 to 40 psi
(2.4 - 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 Closed Inline Piped	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

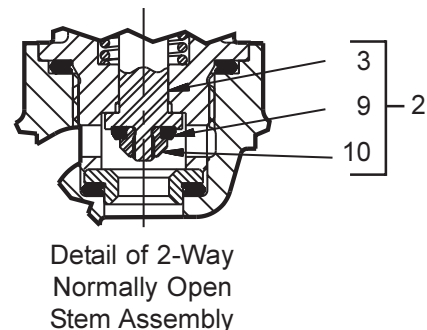
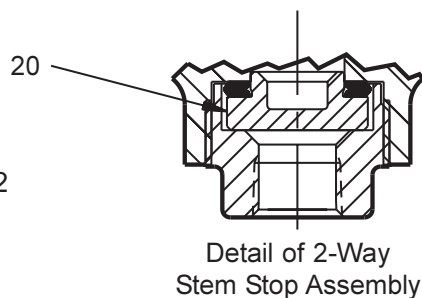
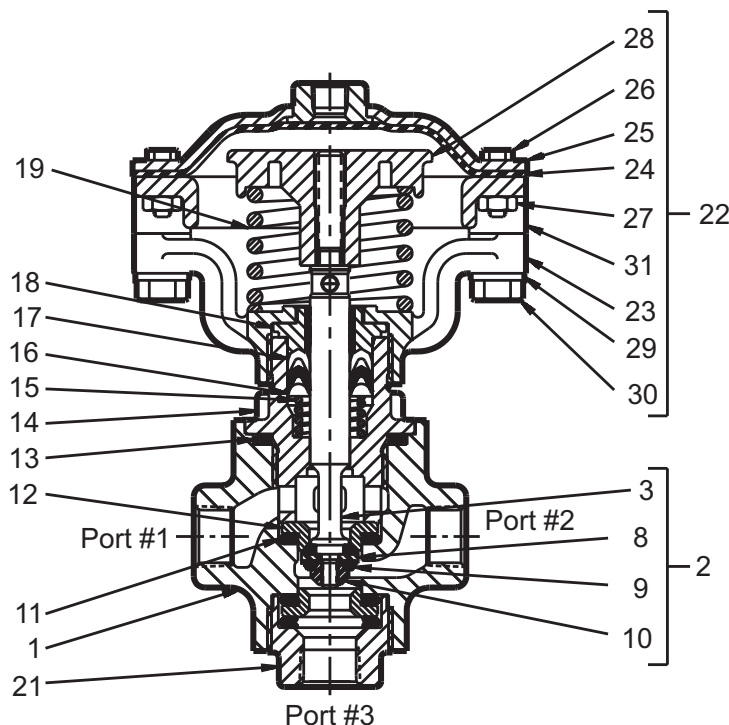
Model Selection Chart

Basic Valve Size	Port Tap (NPTF)	Description	Model Number	Pressure Rating		Cv			
						Port 1 to Port 2	Port 2 to Port 1	Port 2 to Port 3	Port 3 to Port 2
				psi	bar				
1/4"	1/4"	2WNC	C264-00091	400	28	3.35	3.75	-	-
	3/8"		C264-00101	400	28	3.05	3.25	-	-
	1/4"	2WNO	C284-00071	400†	28†	3.35	3.75	-	-
	3/8"		C284-00081	400†	28†	3.05	3.45	-	-
	1/4"	3WNC	C264-00131	400*	28*	3.35	3.75	4.15	4.25
	3/8"		C264-00141	400*	28*	3.05	3.25	4.90	4.25

CAUTION -See Chart Above

* When used as a **DIRECTIONAL CONTROL VALVE**, pressures up to 400 psi are permissible. As a **MIXING VALVE** pressures up to 400 psi at Port #1 are permissible, but pressure at Port #3 must not exceed 275 psi with 35 psi pressure. At 40 psi top pressure, 400 psi may be introduced at Port #3.

† Pressure rating shown is for inlet at Port #1. With inlet at Port #2 pressure must not exceed 275 psi with 35 psi top pressure. At 40 psi top pressure 400 psi may be introduced at Port #2.



Basic Valve Size & Type	1/4" 2-Way Normally Closed		1/4" 2-Way Normally Open		1/4" 3-Way Normally Closed		Description
	1/4" NPTF	3/8" NPTF	1/4" NPTF	3/8" NPTF	1/4" NPTF	3/8" NPTF	
Model No.	C264-00091	C264-00101	C284-00071	C284-00081	C264-00131	C264-00141	
Item No.	Part Number						Description
1	C093-258	C093-259	C093-258	C093-259	C093-258	C093-259	
2	C332-079	C332-079	C332-078	C332-078	C332-079	C332-079	Stem Assembly
3	D093-209	D093-209	D093-208	D093-208	D093-209	D093-209	Stem Only
8	C353-011	C353-011	-	-	C353-011	C353-011	Disc Holder
• 9	C343-067	C343-067	C343-067	C343-067	C343-067	C343-067	Seat Disc
10	C553-027	C553-027	C553-027	C553-027	C553-027	C553-027	Disc Nut
• 11	C383-063	C383-063	C383-063	C383-063	C383-063	C383-063	Seat Gasket
12	C963-147	C963-147	C963-147	C963-147	C963-147	C963-147	Seat Ring
• 13	C383-064	C383-064	C383-064	C383-064	C383-064	C383-064	Gasket
14	C013-015	C013-015	C013-015	C013-015	C013-015	C013-015	Adapter
15	D293-131	D293-131	D293-131	D293-131	D293-131	D293-131	Packer Spring
16	C713-017	C713-017	C713-017	C713-017	C713-017	C713-017	Packer Spreader
• 17	C242-024	C242-024	C242-024	C242-024	C242-024	C242-024	Packer Assembly
18	C603-030	C603-030	C603-030	C603-030	C603-030	C603-030	Retainer
19	D293-130	D293-130	D293-130	D293-130	D293-130	D293-130	Diaphragm Spring
20	D123-052	D123-052	D123-052	D123-052	-	-	Stem Stop
21	C213-196	C213-197	C213-196	C213-197	C213-196	C213-197	Bottom Cap
22	C392-050	C392-050	C392-050	C392-050	C392-050	C392-050	Diaphragm Assembly EPDM
	C392-070	C392-070	C392-070	C392-070	C392-070	C392-070	Diaphragm Assembly PTFE
23	D283-184	D283-184	D283-184	D283-184	D283-184	D283-184	Yoke
• 24	C333-056	C333-056	C333-056	C333-056	C333-056	C333-056	Diaphragm EPDM
	C333-067	C333-067	C333-067	C333-067	C333-067	C333-067	Diaphragm PTFE
25	M163-005	M163-005	M163-005	M163-005	M163-005	M163-005	Cover
26	H109-09	H109-09	H109-09	H109-09	H109-09	H109-09	Cap Screw
27	H064-16	H064-16	H064-16	H064-16	H064-16	H064-16	Hex Nut
28	C783-141	C783-141	C783-141	C783-141	C783-141	C783-141	Piston
29	H175-16	H175-16	H175-16	H175-16	H175-16	H175-16	Lock Washer
30	H096-84	H096-84	H096-84	H096-84	H096-84	H096-84	Cap Screw
31	M423-002	M423-002	M423-002	M423-002	M423-002	M423-002	Ring
	C242-056						Service Kit EPDM
	C242-081						Service Kit PTFE

• IN SERVICE KIT

400psi (34 bar), 3-Way Valves
Tapped 1/2", 3/4", 1", 1-1/4", 1-1/2", 2"Use 30 to 40 psi
(2.1 - 2.8 bar)
Air Pressure on Top**SPECIFICATIONS****MEDIA:** Steam • Hot or Cold Water • Air & Inert Gases**PRESSURE:** Maximum Operating Pressure: 400 psi (28 bar)**TEMPERATURE RANGE:** -40° TO 400°F (-40° TO 204°C)

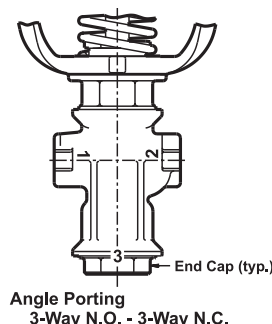
These soft seated valves were designed for applications where bubble-tight seal is required. This is done through stainless steel reinforced PTFE rings on the stem. Valve bodies are machined from the highest quality Navy-M bronze with stainless steel stem and seats, spring-loaded packers and stainless 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. Diaphragm springs are high quality spring steel and a proprietary coating is applied for maximum corrosion resistance.

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 their 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.

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 valves with Molded PTFE diaphragms, change the fourth digit to (6).

Example: C266-20051. For dimensional data, see page 40.

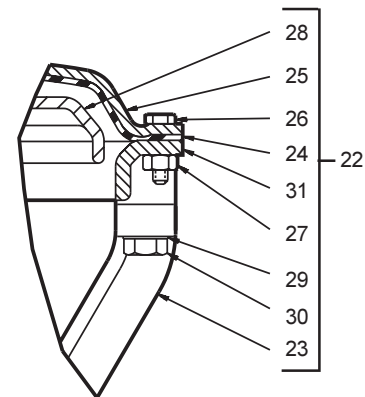
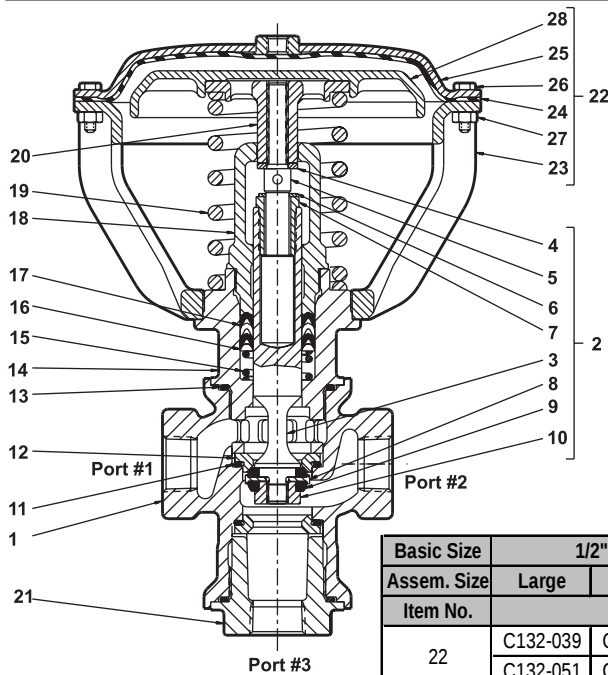


Valve Type		Piping Connection		
		Port 1	Port 2	Port 3
3-Way	Normally Open	Drain	Cylinder	Inlet
	Normally Closed	Inlet	Cylinder	Drain
3-Port	Directional Valve	Outlet	Inlet	Outlet
	Mixing Valve	Inlet	Outlet	Inlet

Model Selection Chart

Model Selection Chart											
Basic Valve Size	Port Tap (NPTF)	Description		Large Top		Small Top		Cv			
								Port 1 to Port 2	Port 2 to Port 1	Port 2 to Port 3	Port 3 to Port 2
				psi	bar	psi	bar				
1/2"	1/2"	3WNC	Model No.	C264-20051		C264-20131		6.6	7.3	8.0	8.0
			Pressure Rating	400	28.0	270 (1)	18.6				
	3/4"		Model No.	C264-20061		C264-20141		8.3	7.8	9.9	10.8
			Pressure Rating	400	28.0	270 (1)	18.6				
1"	1"	3WNC	Model No.	C264-40051		C264-40131		15.2	16.0	19.8	23.8
			Pressure Rating	400	28.0	230 (2)	15.9				
	1 1/4"		Model No.	C264-40061		C264-40141		19.2	20.8	24.2	27.5
			Pressure Rating	400	28.0	230 (2)	15.9				
1 1/2"	1 1/4"	3WNC	Model No.	C264-60051		C264-60131		30.2	28.8	38.5	43.0
			Pressure Rating	400	28.0	165 (3)	11.4				
	1 1/2"		Model No.	C264-60061		C264-60141		34.2	35.0	38.5	44.0
			Pressure Rating	400	28.0	165 (3)	11.4				
	2"		Model No.	C264-60191		C264-60231		37.5	40.0	45.5	54.5
			Pressure Rating	400	28.0	165 (3)	11.4				

- (1) When used as a **Directional Valve**, pressures must not exceed 270 psi. As a **Mixing Valve**, pressures up to 400 psi are permissible at Port 1. However, pressure at Port 3 must not exceed 110 psi.
- (2) When used as a **Directional Valve**, pressures must not exceed 230 psi. As a **Mixing Valve**, pressures up to 400 psi are permissible at Port 1. However, pressure at Port 3 must not exceed 105 psi.
- (3) When used as a **Directional Valve**, pressures must not exceed 165 psi. As a **Mixing Valve**, pressures up to 400 psi are permissible at Port 1. However, pressure at Port 3 must not exceed 40 psi.

Detail of 1-1/2"
2-Piece Yoke
Cover Assembly

Basic Size	1/2"		1"		1 1/2"		Description
Assem. Size	Large	Small	Large	Small	Large	Small	
Item No.	Part Numbers						
22	C132-039	C132-038	C132-040	C132-041	C132-048	C132-042	Diaphragm Assembly EPDM
	C132-051	C132-052	C132-053	C132-054	C132-055	C132-056	Diaphragm Assembly PTFE
23	D283-140	D293-139	D283-148	D283-146	D283-099	D283-063	Yoke
* 24	C333-053	C333-049	C333-051	C333-050	C333-052	C333-051	Diaphragm EPDM
	C333-069	C333-068	C333-070	C333-072	C333-071	C333-070	Diaphragm PTFE
25	C293-023	C293-018	C293-030	C293-091	C293-036	C293-030	Diaphragm Cover
26	H096-10	H096-10	H096-10	H096-10	H096-10	H096-10	Cap Screw
27	H060-03	H060-03	H060-03	H060-03	H060-03	H060-03	Hex Nut
28	C783-048	C783-032	C783-081	C783-061	C783-102	C783-071	Diaphragm Piston
29	-	-	-	-	H175-21	-	Lock Washer
30	-	-	-	-	H096-49	-	Cap Screw
31	-	-	-	-	C893-031	-	Ring
	C242-057	C242-058	C242-059	C242-060	C242-061	C242-062	Service Kit EPDM
	C242-088	C242-089	C242-090	C242-091	C242-092	C242-093	Service Kit PTFE

• IN SERVICE KIT

Basic Valve Size & Type Port Size Item No.	1/2" 3-Way N.C.		1" 3-Way N.C.		1½" 3-Way N.C.			Description
	1/2" NPTF	3/4" NPTF	1" NPTF	1¼" NPTF	1¼" NPTF	1½" NPTF	2" NPTF	
	Part Numbers							
1	C093-151	C093-152	C093-149	C093-148	C093-153	C093-150	C093-266	Body
2	C332-104	C332-104	C332-085	C332-085	C332-088	C332-088	C332-088	Stem Assembly
3	D090-30021	D090-30021	D093-212	D093-212	D093-214	D093-214	D093-214	Stem Only
4	D223-019	D223-019	D223-030	D223-030	-	-	-	Washer
5	D093-037	D093-037	D093-086	D093-086	D093-146	D093-146	D093-146	Swivel Stem
6	H132-04	H132-04	H132-05	H132-05	H132-06	H132-06	H132-06	Dust Washer
7	C643-002	C643-002	C643-006	C643-006	C643-010	C643-010	C643-010	Swivel Nut
8	C353-012	C353-012	C353-013	C353-013	C353-014	C353-014	C353-014	Disc Holder
• 9	C343-068	C343-068	C343-069	C343-069	C343-070	C343-070	C343-070	Seat Disc
10	C553-022	C553-022	C553-024	C553-024	C553-026	C553-026	C553-026	Disc Nut
• 11	C383-010	C383-010	C383-019	C383-019	C383-029	C383-029	C383-029	Seat Gasket
12	C963-148	C963-148	C963-149	C963-149	C963-150	C963-150	C963-150	Seat Ring
• 13	C383-022	C383-022	C383-028	C383-028	C383-032	C383-032	C383-032	End Gasket
14	C013-006	C013-006	C013-009	C013-009	C013-007	C013-007	C013-007	Adapter
15	D293-001	D293-001	D293-002	D293-002	D293-004	D293-004	D293-004	Packer Spring
16	C713-003	C713-003	C713-004	C713-004	C713-007	C713-007	C713-007	Packer Spreader
• 17	C242-021	C242-021	C242-022	C242-022	C242-023	C242-023	C242-023	Packer Assembly
18	C563-034	C563-034	C563-015	C563-015	C563-022	C563-022	C563-022	Gland Nut
19	D293-157	D293-157	D293-147	D293-147	D293-051	D293-051	D293-051	Diaphragm Spring
20	C883-006	C883-006	C883-008	C883-008	C883-009	C883-009	C883-009	Spring Retainer
21	C213-177	C213-178	C213-175	C213-176	C213-180	C213-181	C883-201	End Cap

Hard Seated, 500 psi, 2- & 3-Way Valves Tapped 1/4", 3/8"

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)

This basic 1/4" 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 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. 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.

This valve is equipped with a single size diaphragm actuator. The actuator permits operation of the valve at the ratings shown in the Model Selection Chart. Two-piece construction is standard on this valve which allows the diaphragm assembly to be changed in areas where head space is at a premium. The diaphragm assembly may be replaced with the valve under pressure but de-energized.

To order gas tested valves, add suffix (2) to the Model No. Example: C264-00092.

To order valves with molded PTFE diaphragms, change the fourth digit in the model No. to (6). Example: C266-0009.

* See Page 2.

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

For dimensional data, see page 39.

CAUTION - See Chart

(1) Pressure rating shown is for inlet at Port 3. With inlet at Port 2, pressures up to 500 psi are permissible.

(2) When used as a **Directional Valve**, pressures up to 500 psi are permissible. As a **Mixing Valve**, pressures up to 500 psi at Port 1 are permissible but pressure at Port 3 must not exceed 225 psi with 30 psi top pressure. At 40 psi top pressure, 500 psi may be introduced at Port 3.

(3) When used as a **Directional Valve**, pressures up to 500 psi are permissible. As a **Mixing Valve**, pressures up to 240 psi at Port 1 are permissible but pressure at Port 3 must not exceed 375 psi with 30 psi top pressure. At 40 psi top pressure, 500 psi may be introduced at Port 3.

(4) Pressure rating shown is for inlet at Port 1 with inlet at Port 2, pressures up to 500 psi are permissible.

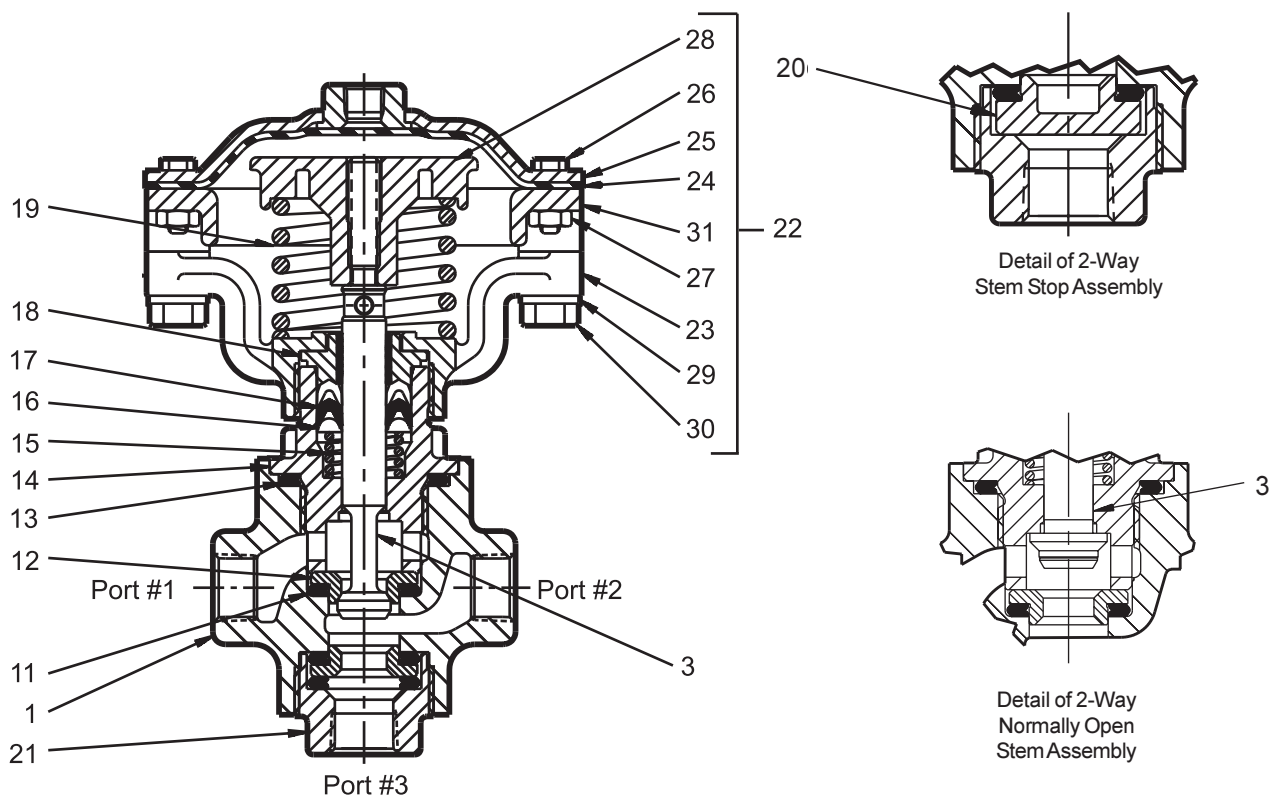
Use 30 to 40 psi
(2.1 - 2.8 bar)
Air Pressure on Top



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

Model Selection Chart

Basic Valve Size	Port Tap (NPTF)	Description	Model Number	Pressure Rating		Cv			
						Port 1 to Port 2	Port 2 to Port 1	Port 2 to Port 3	Port 3 to Port 2
				psi	bar				
1/4"	1/4"	2WNC	C264-0009	500	34.0	2.06	-	-	-
	3/8"	(Inline Porting)	C264-0010	500	34.0	2.57	-	-	-
	1/4"	2WNO	C284-0007	375 (4)	26.0	1.80	1.85	-	-
	3/8"	(Inline Porting)	C284-0008	375 (4)	26.0	1.95	2.25	-	-
	1/4"	2WNO	C264-0011	375 (1)	26.0	-	-	2.44	3.30
	3/8"	(Angle Porting)	C264-0012	375 (1)	26.0	-	-	2.35	2.62
	1/4"	3WNC	C264-0013	500 (2)	34.0	2.06	2.06	2.44	3.30
	3/8"		C264-0014	500 (2)	34.0	2.57	2.48	2.35	3.62
	1/4"	3WNO	C264-0015	375 (3)	26.0	2.06	2.06	2.44	3.30
	3/8"		C264-0016	375 (3)	26.0	2.57	2.48	2.35	3.62



Basic Valve Size & Type	1/4" 2-Way Normally Closed		1/4" 2-Way Normally Open		1/4" 3-Way Normally Closed		1/4" 3-Way Normally Open		Description
Port Size	1/4" NPTF	3/8" NPTF	1/4" NPTF	3/8" NPTF	1/4" NPTF	3/8" NPTF	1/4" NPTF	3/8" NPTF	
Model No.	C264-0009	C264-0010	C284-0007	C284-0008	C264-0013	C264-0014	C264-0015	C264-0016	
Item No.	Part Number								Description
1	C093-258	C093-259	C093-258	C093-259	C093-258	C093-259	C093-258	C093-259	
3	D093-205	D093-205	D093-204	D093-204	D093-205	D093-205	D093-205	D093-205	Stem
• 11	C383-063	C383-063	C383-063	C383-063	C383-063	C383-063	C383-063	C383-063	Seat Gasket
12	C963-145	C963-145	C963-145	C963-145	C963-145	C963-145	C963-145	C963-145	Seat Ring
• 13	C383-064	C383-064	C383-064	C383-064	C383-064	C383-064	C383-064	C383-064	Gasket
14	C013-015	C013-015	C013-015	C013-015	C013-015	C013-015	C013-015	C013-015	Adapter
15	D293-131	D293-131	D293-131	D293-131	D293-131	D293-131	D293-131	D293-131	Packer Spring
16	C713-017	C713-017	C713-017	C713-017	C713-017	C713-017	C713-017	C713-017	Packer Spreader
• 17	C242-024	C242-024	C242-024	C242-024	C242-024	C242-024	C242-024	C242-024	Packer
18	C603-030	C603-030	C603-030	C603-030	C603-030	C603-030	C603-030	C603-030	Retainer
19	D293-130	D293-130	D293-129	D293-129	D293-130	D293-130	D293-129	D293-129	Diaphragm Spring
20	D123-052	D123-052	D123-052	D123-052	-	-	-	-	Stem Stop
21	C213-196	C213-197	C213-196	C213-197	C213-196	C213-197	C213-196	C213-197	Bottom Cap
22	C392-050	C392-050	C392-050	C392-050	C392-050	C392-050	C392-050	C392-050	Diaphragm Assembly EPDM
	C392-070	C392-070	C392-070	C392-070	C392-070	C392-070	C392-070	C392-070	Diaphragm Assembly PTFE
23	D283-184	D283-184	D283-184	D283-184	D283-184	D283-184	D283-184	D283-184	Yoke
• 24	C333-056	C333-056	C333-056	C333-056	C333-056	C333-056	C333-056	C333-056	Diaphragm EPDM
	C333-067	C333-067	C333-067	C333-067	C333-067	C333-067	C333-067	C333-067	Diaphragm PTFE
25	M163-005	M163-005	M163-005	M163-005	M163-005	M163-005	M163-005	M163-005	Cover
26	H109-09	H109-09	H109-09	H109-09	H109-09	H109-09	H109-09	H109-09	Cap Screw
27	H064-16	H064-16	H064-16	H064-16	H064-16	H064-16	H064-16	H064-16	Hex Nut
28	C783-141	C783-141	C783-141	C783-141	C783-141	C783-141	C783-141	C783-141	Piston
29	H175-16	H175-16	H175-16	H175-16	H175-16	H175-16	H175-16	H175-16	Lock Washer
30	H096-84	H096-84	H096-84	H096-84	H096-84	H096-84	H096-84	H096-84	Cap Screw
31	M423-002	M423-002	M423-002	M423-002	M423-002	M423-002	M423-002	M423-002	Ring
	C242-049								Service Kit EPDM
	C242-080								Service Kit PTFE

• IN SERVICE KIT

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)

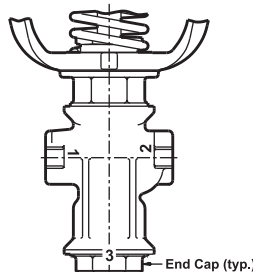
This basic 1/2" valve is available in 2-way and 3-way types. The 2-way normally closed valves are inline ported. The 2-way normally open valves may be ordered with angle or inline porting, as shown in the Model Selection Chart. The piping variations for the 3-way as well as the 2-way are shown in the 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 bottom 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."

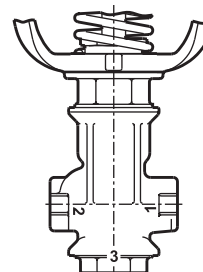
Use 30 to 40 psi
(2.1 - 2.8 bar)
Air Pressure on Top



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	CV							
			Large Top		Small Top					
			psi	bar	psi	bar	Port 1 to Port 2	Port 2 to Port 1	Port 2 to Port 3	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"	2WNC (Inline Porting)	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"	2WNO (Inline Porting)	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"	2WNO (Angle Porting)	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"	3WNC	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"	3WNO	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

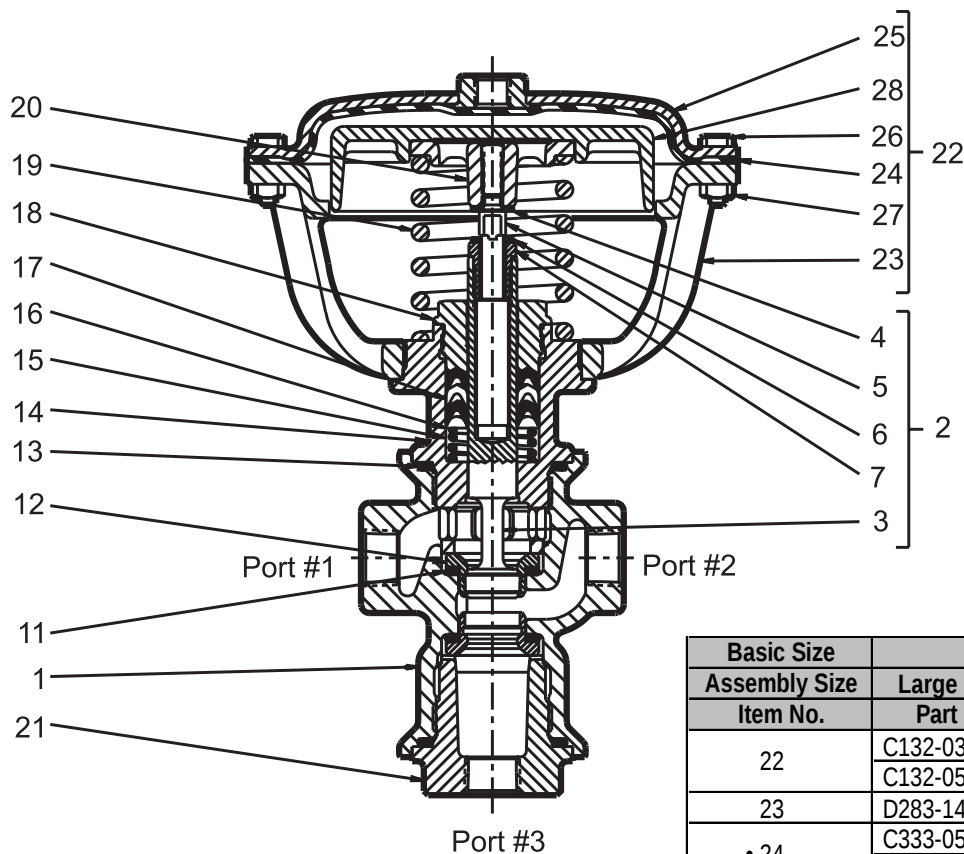
(1) Pressure rating shown is for inlet at Port 3. With inlet at Port 2, pressures up to 450 psi are permissible.

(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 permissible. 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 permissible.



Basic Size	1/2"		Description
Assembly Size	Large	Small	
Item No.	Part Numbers		
22	C132-039	C132-038	Diaphragm Assembly EPDM
	C132-051	C132-052	Diaphragm Assembly PTFE
23	D283-140	D283-139	Yoke
• 24	C333-053	C333-049	Diaphragm EPDM
	C333-069	C333-068	Diaphragm PTFE
25	C293-023	C293-018	Diaphragm Cover
26	H096-10	H096-10	Cap Screw
27	H060-03	H060-03	Hex Nut
28	C783-048	C783-032	Diaphragm Piston
	C242-050	C242-051	Service Kit EPDM
	C242-082	C242-083	Service Kit PTFE

• IN SERVICE KIT

Valve Type	2-Way Normally Closed (Inline Porting)		2-Way Normally Open (Inline Porting)		2-Way Normally Open (Angle Porting) 3-Way Normally Open		3-Way Normally Closed		Description
Port Size	1/2" NPTF	3/4" NPTF	1/2" NPTF	3/4" NPTF	1/2" NPTF	3/4" NPTF	1/2" NPTF	3/4" NPTF	
Item No.	Part Numbers								
1	C093-151	C093-152	C093-151	C093-152	C093-151	C093-152	C093-151	C093-152	Body
2	C332-007	C332-007	C332-007	C332-007	C332-007	C332-007	C332-007	C332-007	Stem Assembly
3	D093-088	D093-088	D093-088	D093-088	D093-088	D093-088	D093-088	D093-088	Stem Only
4	D223-019	D223-019	D223-019	D223-019	D223-019	D223-019	D223-019	D223-019	Washer
5	D093-037	D093-037	D093-037	D093-037	D093-037	D093-037	D093-037	D093-037	Swivel Stem
6	H132-04	H132-04	H132-04	H132-04	H132-04	H132-04	H132-04	H132-04	Dust Washer
7	C643-002	C643-002	C643-002	C643-002	C643-002	C643-002	C643-002	C643-002	Swivel Nut
• 11	C383-010	C383-010	C383-010	C383-010	C383-010	C383-010	C383-010	C383-010	Seat Gasket
12	C963-008	C963-008	C963-008	C963-008	C963-008	C963-008	C963-008	C963-008	Seat Ring
• 13	C383-022	C383-022	C383-022	C383-022	C383-022	C383-022	C383-022	C383-022	End Gasket
14	C013-006	C013-006	C013-006	C013-006	C013-006	C013-006	C013-006	C013-006	Adapter
15	D293-001	D293-001	D293-001	D293-001	D293-001	D293-001	D293-001	D293-001	Packer Spring
16	C713-003	C713-003	C713-003	C713-003	C713-003	C713-003	C713-003	C713-003	Packer Spreader
• 17	C242-021	C242-021	C242-021	C242-021	C242-021	C242-021	C242-021	C242-021	Packer Assembly
18	C563-034	C563-034	C563-034	C563-034	C563-034	C563-034	C563-034	C563-034	Gland Nut
19	D239-157	D239-157	D239-158	D239-158	D239-158	D239-158	D239-157	D239-157	Diaphragm Spring
20	C883-006	C883-006	C883-006	C883-006	C883-006	C883-006	C883-006	C883-006	Spring Retainer
21	C213-179	C213-179	C213-143	C213-143	C213-177	C213-178	C213-177	C213-178	End Cap

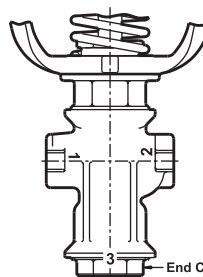
500 psi (34 bar), 2- & 3-Way Valves Tapped 1", 1-1/4"**SPECIFICATIONS****Media:** Steam • Hot or Cold Water • Air & Inert Gases***Pressure:** Maximum Operating Pressure: 500 psi (34 bar) ****Temperature Range:** -40° TO 450°F (-40° TO 232°C)

This basic 1" 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 end 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 actuators 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. **To order gas tested valves, add suffix (2) to the Model No. Example: C264-40012. To order valves with molded PTFE diaphragms, change the fourth digit to (6) Example: C266-4001. For dimensional data, see page 40. * See Page 2. ** See maximum pressure for individual valves in "Model Selection Chart."**

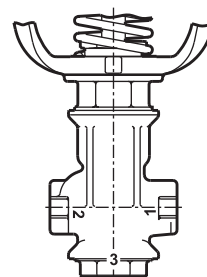
Use 30 to 40 psi
(2.1 - 2.8 bar)
Air Pressure on Top



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
	Normally Open	Drain	Cylinder	Inlet
3-Way	Normally Closed	Inlet	Cylinder	Drain
	Directional Valve	Outlet	Inlet	Outlet
3-Port	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		Small Top		Cv			
				psi	bar	psi	bar	Port 1 to Port 2	Port 2 to Port 1	Port 2 to Port 3	Port 3 to Port 2
1"	1	2WNC (Inline Porting)	Model No..	C264-4001		C264-4009		13.5	13.8	-	-
			Pressure Rating	500	34.0	375(3)	26.0				
	1¼"	2WNC (Inline Porting)	Model No..	C264-4002		C264-4010		17.2	16.5	-	-
			Pressure Rating	500	34.0	375(3)	26.0				
	1	2WNO (Inline Porting)	Model No..	C274-4001		C274-4003		13.2	12.6	-	-
			Pressure Rating	500	34.0	275(4)	19.0				
	1¼"	2WNO (Inline Porting)	Model No..	C274-4002		C274-4004		17.9	17.0	-	-
			Pressure Rating	500	34.0	275(4)	19.0				
	1	2WNO (Angle Porting)	Model No..	C264-4003		C264-4011		-	-	17.9	18.4
			Pressure Rating	500	34.0	275(1)	19.0				
	1¼"	2WNO (Angle Porting)	Model No..	C264-4004		C264-4012		-	-	24.8	26.0
			Pressure Rating	500	34.0	275(1)	19.0				
	1	3-Way	Model No..	C264-4005		C264-4013		13.5	13.8	17.9	18.4
			Pressure Rating	500	34.0	275(2)	19.0				
	1¼"	3-Way	Model No..	C264-4006		C264-4014		17.2	17.0	24.8	26.0
			Pressure Rating	500	34.0	275(2)	19.0				

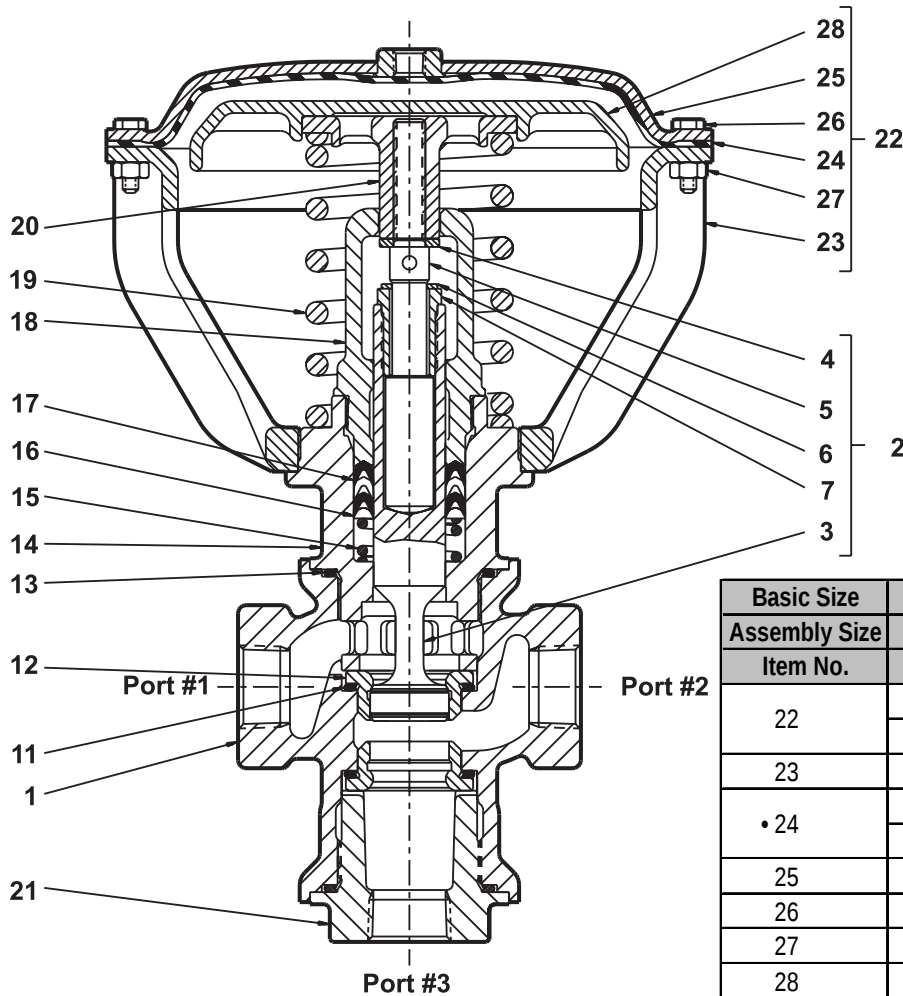
CAUTION - SEE CHART TO THE LEFT

(1) Pressure rating shown is for inlet at Port 3. With inlet at Port 2, pressures up to 350 psi are permissible.

(2) Pressure, rating shown is for valves piped **3-Way Normally Open**. For valves piped **3-Way Normally Closed**, pressures up to 500 psi are permissible. When used as a **Directional Valve**, pressures up to 350 psi are permissible. As a **Mixing Valve**, pressures up to 500 psi are permissible at Port 1. However, pressure at Port 3 must not exceed 275 psi.

(3) Pressure rating shown is for inlet at Port 2. With inlet at Port 1, pressures up to 500 psi are permissible.

(4) Pressure rating shown is for inlet at Port 1. With inlet at Port 2, pressures up to 350 psi are permissible.



Basic Size	1"		Description
Assembly Size	Large	Small	
Item No.	Part Numbers		
22	C132-040	C132-041	Diaphragm Assembly EPDM
	C132-053	C132-054	Diaphragm Assembly PTFE
23	D283-148	D283-146	Yoke
• 24	C333-051	C333-050	Diaphragm EPDM
	C333-070	C333-072	Diaphragm PTFE
25	C293-030	C293-091	Diaphragm Cover
26	H096-10	H096-10	Cap Screw
27	H060-03	H060-03	Hex Nut
28	C783-081	C783-061	Diaphragm Piston
	C242-052	C242-053	Service Kit EPDM
	C242-084	C242-085	Service Kit PTFE

• IN SERVICE KIT

Valve Type	2-Way Normally Closed (Inline Porting)		2-Way Normally Open (Inline Porting)		2-Way Normally Open (Angle Porting)		3-Way		Description
	1" NPTF	1½" NPTF	1" NPTF	1½" NPTF	1" NPTF	1½" NPTF	1" NPTF	1½" NPTF	
Item No.	Part Numbers								
1	C093-149	C093-148	C093-149	C093-148	C093-149	C093-148	C093-149	C093-148	Body
2	C332-022	C332-022	C332-022	C332-022	C332-022	C332-022	C332-022	C332-022	Stem Assembly
3	D093-147	D093-147	D093-147	D093-147	D093-147	D093-147	D093-147	D093-147	Stem Only
4	D223-030	D223-030	D223-030	D223-030	D223-030	D223-030	D223-030	D223-030	Washer
5	D093-086	D093-086	D093-086	D093-086	D093-086	D093-086	D093-086	D093-086	Swivel Stem
6	H132-05	H132-05	H132-05	H132-05	H132-05	H132-05	H132-05	H132-05	Dust Washer
7	C643-006	C643-006	C643-006	C643-006	C643-006	C643-006	C643-006	C643-006	Swivel Nut
• 11	C383-019	C383-019	C383-019	C383-019	C383-019	C383-019	C383-019	C383-019	Seat Gasket
12	C963-052	C963-052	C963-052	C963-052	C963-052	C963-052	C963-052	C963-052	Seat Ring
• 13	C383-028	C383-028	C383-028	C383-028	C383-028	C383-028	C383-028	C383-028	End Gasket
14	C013-009	C013-009	C013-009	C013-009	C013-009	C013-009	C013-009	C013-009	Adapter
15	D293-002	D293-002	D293-002	D293-002	D293-002	D293-002	D293-002	D293-002	Packer Spring
16	C713-004	C713-004	C713-004	C713-004	C713-004	C713-004	C713-004	C713-004	Packer Spreader
• 17	C242-022	C242-022	C242-022	C242-022	C242-022	C242-022	C242-022	C242-022	Packer Assembly
18	C563-015	C563-015	C563-015	C563-015	C563-015	C563-015	C563-015	C563-015	Gland Nut
19	D239-147	D239-147	D239-147	D239-147	D239-147	D239-147	D239-147	D239-147	Diaphragm Spring
20	C883-008	C883-008	C883-008	C883-008	C883-008	C883-008	C883-008	C883-008	Spring Retainer
21	C213-174	C213-174	C213-139	C213-139	C213-175	C213-176	C213-175	C213-176	End Cap

500 psi (34 Bar), 2- & 3-Way Tapped 1-1/4", 1-1/2", 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 1-1/2" basic, hard seated valves are available in 2-Way and 3-Way types. Valve 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. Skirted seats provide closed crossover for gradual reduction of flow prior to seating and minimal losses during cycling. Diaphragm springs are high quality spring steel and a proprietary coating is applied for maximum corrosion resistance.

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.

To order gas tested valves, add suffix (2) to the Model No. Example: C264-60012

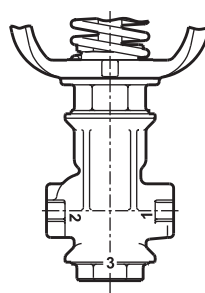
To order valves with Molded PTFE diaphragms, change the fourth digit to (6). Example: C266-6001. For dimensional data, see page 40

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

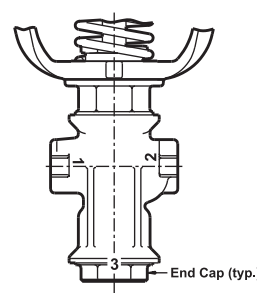
Use 30 to 40 psi
(2.1 - 2.8 bar)
Air Pressure on Top



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



Inline Porting
2-Way N.O.



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

Model Selection Chart

Basic Valve Size	Port Tap (NPTF)		Description	Large Top		Small Top		Cv			
				psi	bar	psi	bar	Port 1 to Port 2	Port 2 to Port 1	Port 2 to Port 3	Port 3 to Port 2
1½"	1¼"	2WNC (Inline Porting)	Model No.	C264-6001		C264-6009		31.9	29.7	-	-
			Pressure Rating	500	34.0	250	17.0				
	1½"		Model No.	C264-6002		C264-6010		35.0	32.9	-	-
			Pressure Rating	500	34.0	250	17.0				
2"	2"		Model No.	C264-6017		C264-6021		36.0	34.7	-	-
			Pressure Rating	500	34.0	250	17.0				
1½"	1¼"	2WNO (Inline Porting)	Model No.	C274-6001		C274-6003		31.9	29.7	-	-
			Pressure Rating	450(8)	31.0	200(7)	14.0				
	1½"		Model No.	C274-6002		C274-6004		35.0	32.9	-	-
			Pressure Rating	450(8)	31.0	200(7)	14.0				
2"	2"		Model No.	C274-6005		C274-6006		36.0	34.7	-	-
			Pressure Rating	450(8)	31.0	200(7)	14.0				
1½"	1¼"	2WNO (Angle Porting)	Model No.	C264-6003		C264-6011		-	-	43.2	48.5
			Pressure Rating	450(1)	31.0	200(2)	14.0				
	1½"		Model No.	C264-6004		C264-6012		-	-	45.0	49.9
			Pressure Rating	450(1)	31.0	200(2)	14.0				
2"	2"		Model No.	C264-6018		C264-6022		-	-	47.3	52.0
			Pressure Rating	450(1)	31.0	200(2)	14.0				
1½"	1¼"	3-WNC	Model No.	C264-6005		C264-6013		31.9	27.4	43.2	48.5
			Pressure Rating	500(3)	34.0	400(4)	28.0				
	1½"		Model No.	C264-6006		C264-6014		35.0	31.3	45.0	49.9
			Pressure Rating	500(3)	34.0	400(4)	28.0				
2"	2"		Model No.	C264-6019		C264-6023		36.0	34.7	47.3	52.0
			Pressure Rating	500(3)	34.0	400(4)	28.0				
1½"	1¼"	3-WNO	Model No.	C264-6007		C264-6015		31.9	27.4	43.2	48.5
			Pressure Rating	450(5)	31.0	200(6)	14.0				
	1½"		Model No.	C264-6008		C264-6016		35.0	31.3	45.0	49.9
			Pressure Rating	450(5)	31.0	200(6)	14.0				
2"	2"		Model No.	C264-6020		C264-6024		36.0	34.7	47.3	52.0
			Pressure Rating	450(5)	31	200(6)	14.0				

CAUTION - See Chart TO THE LEFT

(1) Pressure rating shown is for inlet at port 3 With inlet at port 2. pressures up to 500 psi are permissible.

(2) Pressure rating shown is for inlet at port 3. With inlet at port 2 pressures up to 215 psi are permissible.

(3) When used as a **Directional Valve**, pressure must not exceed 450 psi. As a **Mixing Valve**, pressures up to 500 psi are permissible at Port 1. However, pressure at Port 3 must not exceed 410 psi.

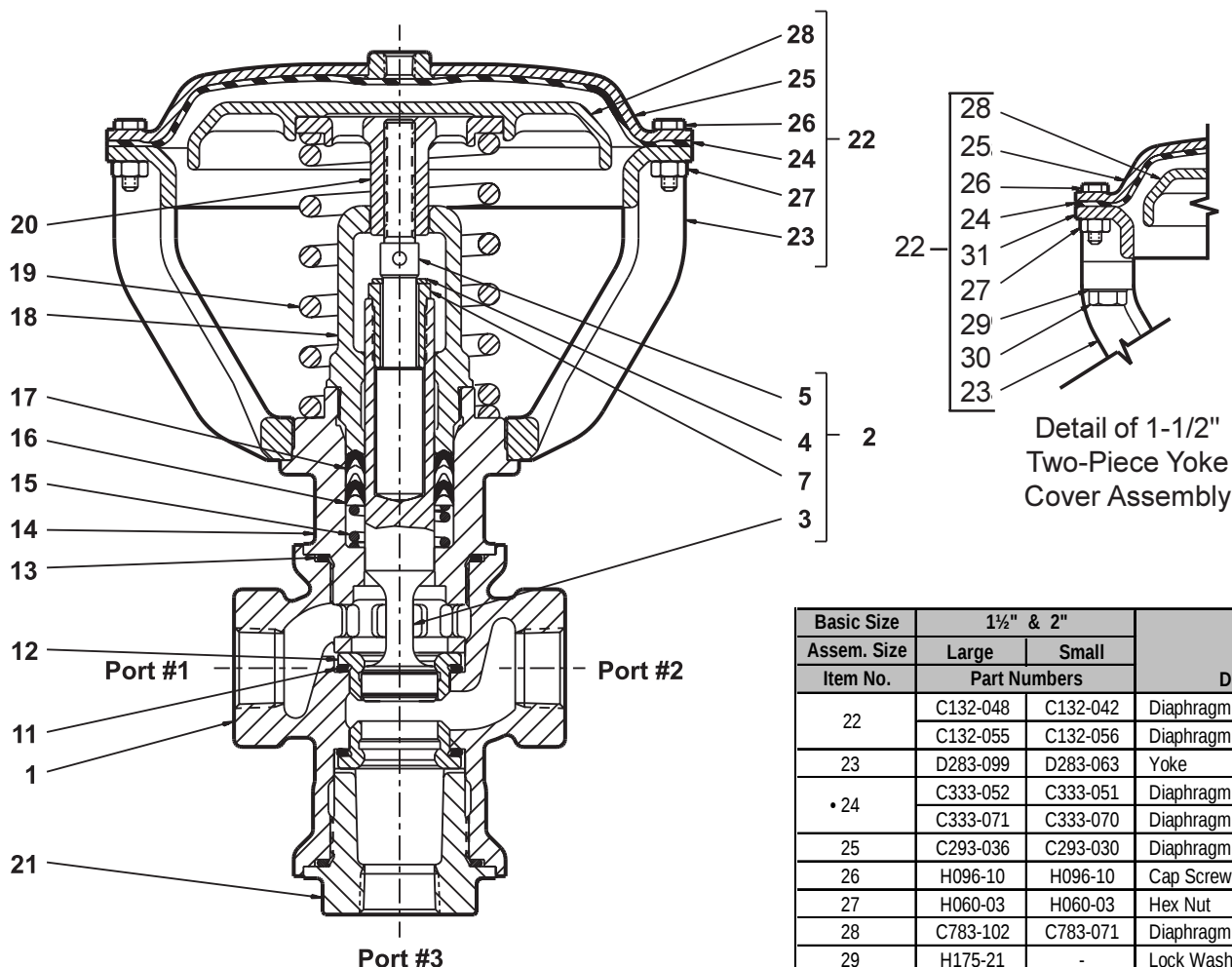
(4) When used as a **Directional Valve**, pressures must not exceed 215 psi. As a **Mixing Valve**, pressures up to 400 psi are permissible at Port 1. However, pressures at Port 3 must not exceed 200 psi.

(5) When used as a **Directional Valve**, pressures up to 500 psi are permissible. As a **Mixing Valve**, pressures up to 450 psi are permissible at Port 3. However, pressure at Port 1 must not exceed 400 psi.

(6) When used as a **Directional Valve**, pressures up to 215 psi are permissible. As a **Mixing Valve**, pressures up to 400 psi, are permissible at port 1. However, pressure at Port 3 must not exceed 200 psi.

(7) Pressure rating shown is for inlet at Port 1. With inlet at Port 2 pressures up to 215 psi are permissible.

(8) Pressure rating shown is for inlet at Port 1 With inlet at Port 2 pressures up to 500 psi are permissible.



Basic Size	1½" & 2"		Description
Assem. Size	Large	Small	
Item No.	Part Numbers		
22	C132-048	C132-042	Diaphragm Assembly EPDM
	C132-055	C132-056	Diaphragm Assembly PTFE
23	D283-099	D283-063	Yoke
• 24	C333-052	C333-051	Diaphragm EPDM
	C333-071	C333-070	Diaphragm PTFE
25	C293-036	C293-030	Diaphragm Cover
26	H096-10	H096-10	Cap Screw
27	H060-03	H060-03	Hex Nut
28	C783-102	C783-071	Diaphragm Piston
29	H175-21	-	Lock Washer
30	H096-49	-	Cap Screw
31	C893-031	-	Ring
	C242-054	C242-055	Service Kit EPDM
	C242-086	C242-087	Service Kit PTFE

• IN SERVICE KIT

Valve Type	2-Way Normally Closed (Inline Porting)			2-Way Normally Open (Inline Porting)			2-Way Normally Open (Angle Porting) 3-Way Normally Open			3-Way Normally Closed			Description
Port Item	1½"NPTF	1½"NPTF	2"NPTF	1½"NPTF	1½"NPTF	2"NPTF	1½"NPTF	1½"NPTF	2"NPTF	1½"NPTF	1½"NPTF	2"NPTF	
	Part Numbers												
1	C093-153	C093-150	C093-266	C093-153	C093-150	C093-266	C093-153	C093-150	C093-266	C093-153	C093-150	C093-266	Body
2	C332-044	C332-044	C332-044	C332-044	C332-044	C332-044	C332-044	C332-044	C332-044	C332-044	C332-044	C332-044	Stem Ass.
3	D093-173	D093-173	D093-173	D093-173	D093-173	D093-173	D093-173	D093-173	D093-173	D093-173	D093-173	D093-173	Stem Only
4	H132-06	H132-06	H132-06	H132-06	H132-06	H132-06	H132-06	H132-06	H132-06	H132-06	H132-06	H132-06	Dust Wash.
5	D093-146	D093-146	D093-146	D093-146	D093-146	D093-146	D093-146	D093-146	D093-146	D093-146	D093-146	D093-146	Swivel Stem
7	C643-010	C643-010	C643-010	C643-010	C643-010	C643-010	C643-010	C643-010	C643-010	C643-010	C643-010	C643-010	Swivel Nut
• 11	C383-029	C383-029	C383-029	C383-029	C383-029	C383-029	C383-029	C383-029	C383-029	C383-029	C383-029	C383-029	Seat Gasket
12	C963-085	C963-085	C963-085	C963-085	C963-085	C963-085	C963-085	C963-085	C963-085	C963-085	C963-085	C963-085	Seat Ring
• 13	C383-032	C383-032	C383-032	C383-032	C383-032	C383-032	C383-032	C383-032	C383-032	C383-032	C383-032	C383-032	End Gasket
14	C013-007	C013-007	C013-007	C013-007	C013-007	C013-007	C013-007	C013-007	C013-007	C013-007	C013-007	C013-007	Adapter
15	D293-004	D293-004	D293-004	D293-004	D293-004	D293-004	D293-004	D293-004	D293-004	D293-004	D293-004	D293-004	Pckr. Spring
16	C713-007	C713-007	C713-007	C713-007	C713-007	C713-007	C713-007	C713-007	C713-007	C713-007	C713-007	C713-007	Pckr. Sprdr.
• 17	C242-023	C242-023	C242-023	C242-023	C242-023	C242-023	C242-023	C242-023	C242-023	C242-023	C242-023	C242-023	Pckr. Ass.
18	C563-022	C563-022	C563-022	C563-022	C563-022	C563-022	C563-022	C563-022	C563-022	C563-022	C563-022	C563-022	Gland Nut
19	D239-051†	D239-051†	D239-051†	D239-054	D239-054	D239-054	D239-054	D239-054	D239-054	D239-051†	D239-051†	D239-051†	Dia. Spring
20	C883-009	C883-009	C883-009	C883-009	C883-009	C883-009	C883-009	C883-009	C883-009	C883-009	C883-009	C883-009	Spring Ret.
21	C213-182	C213-182	C213-182	C213-147	C213-147	C213-147	C213-180	C213-181	C213-201	C213-180	C213-181	C213-201	End Cap

† FOR NORMALLY CLOSED SMALL TOP USE D293-054.