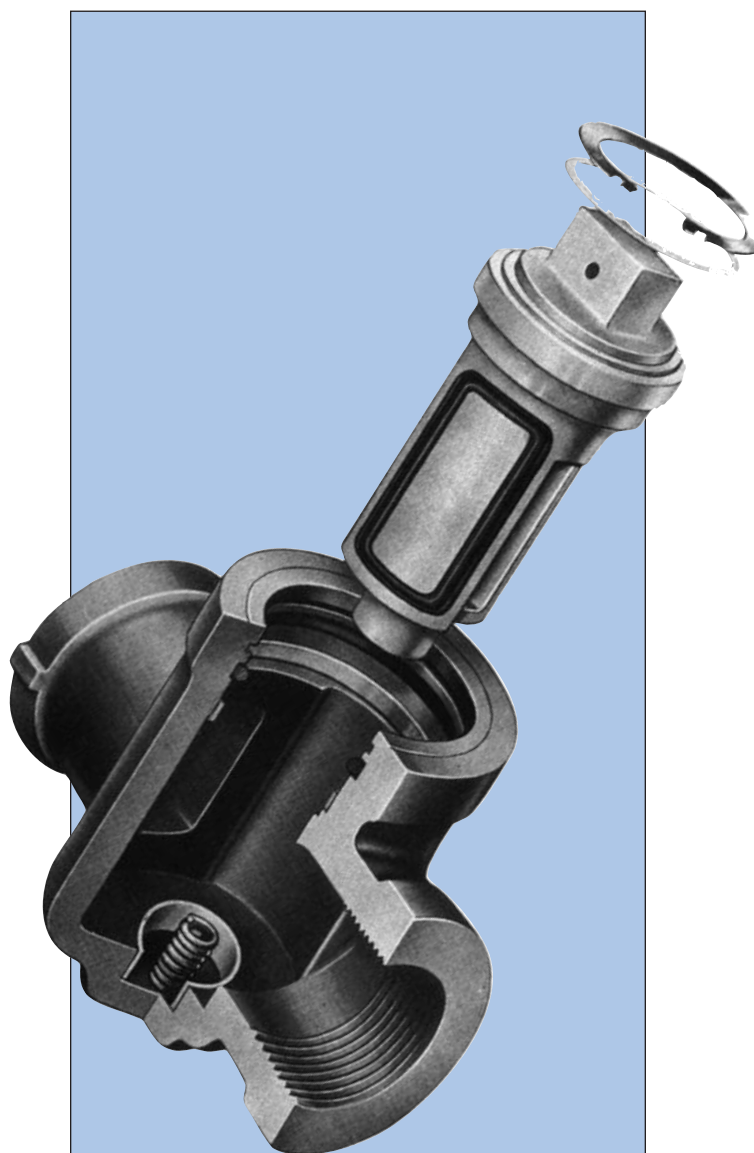


# MILLIKEN

# MILLCENTRIC

625 SERIES

— ECCENTRIC PLUG VALVE —



UL Listed



CGA and AGA  
Approved

# MILLIKEN

## MILLCENTRIC

### 625 SERIES

AGA / CGA, UL LISTED

## — ECCENTRIC PLUG VALVE —

The Milliken criteria of quality, reliability, safety and value are embodied in the MILLCENTRIC Series 625 Eccentric plug valve. The Milliken Series 625 combines proven design and quality construction to provide long life. Ideal for HVAC, Natural Gas, and Hot and Chilled water services.

#### FEATURES

- Compact Size
- Lightweight Construction
- High Flow Capacity
- UL Listed and CSA (AGA-CGA) Approved

#### PRESSURE RATING

1/2" - 4" ANSI 125                      175PSI  
 BODY HYDROTEST = TWICE RATED PRESSURE  
 SEAT TEST = 120% OF RATED PRESSURE

#### BODY

Millcentric valve body casting is of ASTM A-126 Class B Cast Iron. End connections and body thickness conform to ANSI B 16.1 Class 125. Valves meet MSS Standards in 1/2" and 3/4" where ANSI standards are not available.

#### BODY SEAL

Dead tight shutoff is assured without the use of sealant lubricants, by a resilient seal molded into a groove in the plug face. When the plug is closed, the seal is compressed against the seat. The metal of the plug face also contacts the seat to provide a secondary seal for safety. Gas Industry fire tests showed the secondary seal provides near bubble tight shutoff with the resilient seal burned away.

#### STEM SEAL

A variety of stem seal materials provide maintenance free sealing that matches the valve performance and assures long life and reliability.

#### PLUG

Plug materials resist corrosion and prolong seat life.

Plug materials:

- 1/2" - 2"     Bronze
- 2 1/2" - 4"     Electroless Nickel Plated Cast Iron

#### BEARINGS

Permanently lubricated bearings in the upper and lower plug journals resist corrosion and assure easy operation without lubrication. Valve operation is just as easy whether the valve is operated once a day or once a year.

#### SEAT

A baked on thermoplastic seat coating provides extra corrosion resistance to minimize plug wear.

#### ORDERING INFORMATION MILLCENTRIC VALVE - SERIES 625

Valve Type	Designation
ANSI CLASS 125	625

#### End Connection

Threaded	S
Flanged	F

#### Plug and Stem Seal

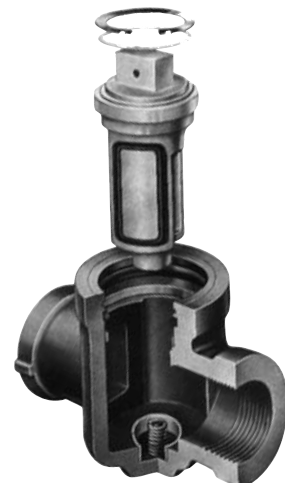
EPDM	0
Buna N	1
Viton	2

#### Accessories

Lever	H
Memory Stop	M
Locking Device	L
2" Square Nut	N

**EXAMPLE:** 1" 625-S-1-H

1" Threaded ANSI 125 Valve with Buna N Plug and Stem Seal, Lever Operated.



## Elastomers Available for Plug and Stem Seals

### Buna N

A general purpose material sometimes referred to as Nitrile or HYCAR with a -20°F to 225°F temperature range. Used on sewage, water, hydrocarbon and mineral oils.



AGA and CGA (CSA) Approved  
for a variety of applications

### Viton

Retention of mechanical properties at high temperature is an important feature of this synthetic elastomer. The temperature range is -10°F to 400°F. Also has excellent resistance to oils, fuels, lubricants and most mineral acids and aromatic hydrocarbons.



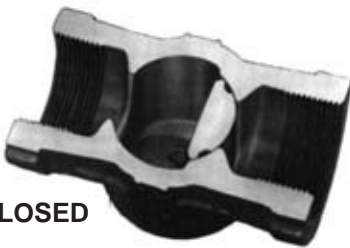


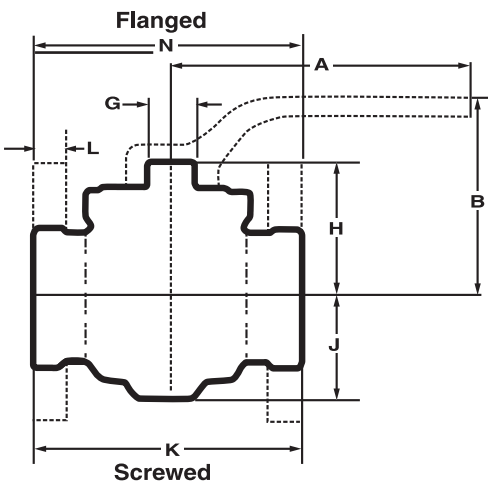
U.L. Listed for a variety of applications

### EPDM

An excellent polymer for use on chilled water through to LP steam applications having a temperature range of -35°F to 250°F. Resistance to many acids, alkalis, detergents, phosphate esters, alcohols and glycols is an added benefit.

Contact Milliken Valve  
for complete Listing Details

 <p><b>OPEN</b></p> <p>Series 625 Eccentric Action and resilient seating assure lasting dead tight shutoff. As the plug rotates 90 degrees from open to closed, it moves into a raised eccentric seat. In the OPEN position, flow is straight through and flow capacity is high.</p>	 <p><b>CLOSING</b></p> <p>As the plug closes, it moves toward the seat without scraping the seat or body walls so there is no plug binding or wear. Flow is still straight through making the throttling characteristic of this valve ideal for manual throttling of gasses and liquids.</p>	 <p><b>CLOSED</b></p> <p>In the closed position, the plug makes contact with the seat. The resilient plug seal is pressed firmly into the seat for dead-tight shutoff. Eccentric plug and seat design assure lasting shutoff because the plug continues to move into the seat until firm contact and seal is made.</p>
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- F - Width of plug operating nut
- L - Cast Iron Flanges
- V - Dimension from valve centerline to top of optional drip cap

		SIZES									
		1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	
DIMENSIONS	A	in	4.00	4.00	5.00	5.00	6.00	6.00	8.00	10.00	12.00
		mm	101.6	101.6	127.0	127.0	152.4	152.4	203.2	254.0	304.8
	B	in	3.50	3.63	4.00	4.25	4.38	4.75	5.50	5.75	6.88
		mm	88.9	92.2	101.6	108.0	111.3	120.7	139.7	146.1	174.8
	F	in	0.50	0.50	0.50	0.50	0.50	0.50	0.50	1.44	1.59
		mm	12.7	12.7	12.7	12.7	12.7	12.7	12.7	36.6	40.4
	G	in	0.81	0.81	1.13	1.13	1.13	1.13	1.63	1.44	1.59
		mm	20.6	20.6	28.7	28.7	28.7	28.7	41.4	36.6	40.4
	H	in	2.03	2.16	2.47	2.72	2.81	3.16	3.94	4.65	5.94
		mm	51.6	54.9	62.7	69.1	71.4	80.3	100.1	118.1	150.9
	J	in	1.25	1.44	1.69	1.88	2.00	2.31	2.88	3.25	4.25
		mm	31.8	36.6	42.9	47.8	50.8	58.7	73.2	82.6	108.0
	K	in	3.25	3.75	4.25	4.75	5.00	5.50	6.88	7.50	9.25
		mm	82.6	95.3	108.0	120.7	127.0	139.7	174.8	190.5	235.0
	L	in	0.38	0.41	0.44	0.50	0.56	0.63	0.69	0.75	0.94
		mm	9.7	10.4	11.2	12.7	14.2	16.0	17.5	19.1	23.9
N	in	4.25	4.63	5.00	5.50	6.50	7.00	7.50	8.00	9.00	
	mm	108.0	117.6	127.0	139.7	165.1	177.8	190.5	203.2	228.6	
V	in	2.13	2.28	2.81	3.00	3.19	3.47	4.19	4.69	6.00	
	mm	54.1	57.9	71.4	76.2	81.0	88.1	106.4	119.1	152.4	
WEIGHTS	NPT	lb	1.75	2.50	3.75	5.25	6.25	9.00	15.00	22.00	47.00
		kg	0.79	1.13	1.70	2.38	2.83	4.08	6.80	9.98	21.32
	FLG	lb	4.00	4.50	6.75	8.25	11.00	15.25	24.00	32.00	61.00
		kg	1.81	2.04	3.06	3.74	4.99	6.92	10.88	14.51	27.66
	Lever	lb	0.75	0.75	1.00	1.00	1.00	1.00	2.00	2.25	4.00
		kg	0.34	0.34	0.45	0.45	0.45	0.45	0.91	1.02	1.81

Dimensional data provided for information only, Contact Milliken Valve for certified drawings.

Milliken reserves the right to make changes in materials, designs, dimensions and specifications without notice.

**TECHNICAL SPECIFICATION  
ECCENTRIC PLUG VALVE  
AGA / CGA, UL LISTED  
1/2" - 4"**

Valves shall be of the non-lubricated eccentric type, with an elastomer "O" Ring seal between the body and plug. The elastomer shall be suitable for the service intended.

Valve body walls and end connections should conform to all applicable ANSI 125 Standards. Valves shall meet MSS Specifications for 1/2" and 3/4" sizes where ANSI Standards are not applicable.

Valve bodies shall be of ASTM A-126 Class B cast iron, and shall be furnished with a corrosion resistant seal on the internal body cavity. Flanged valves shall be in accordance with ANSI B16.1 Class 125/150, including facing, drilling and flange thickness. Threaded end valves shall meet NPT standards.

Plugs 1/2" to 2" shall be of ASTM B61 Bronze material. Plugs 2 1/2" to 4" shall be of ASTM A-126 Class B cast iron with a corrosion resistant electroless nickel coating to prolong seat life.

Plugs shall have a resilient elastomer seal molded into a groove in the plug face to assure dead tight shutoff.

Valves shall be furnished with corrosion resistant permanently lubricated bearings in the upper and lower plug journals.

Each valve shall be given a hydrostatic and seat test with the test results being certified when required by the customer. Valves shall be designed and manufactured to shut off bubble tight at 175 psi.

Plug valves shall be Millcentric Series 625 as manufactured by Milliken Valve Company of Bethlehem, Pennsylvania.



**2625 Brodhead Road  
Suite 100**

**Bethlehem, PA 18020-9081**

**Phone: 610-861-8803**

**FAX: 610-861-8094**