

400 Series

Two Way, No-Freeze 2" Angle Valve

Application

- Used for snap acting on-off control of higher pressure liquids or gas
- Oil and gas separators, gas scrubbers and liquid accumulators are typical applications
- Valve trim placement is inside the vessel in direct contact with process fluid to prevent freezing
- Pneumatic operated topworks
- NACE material packages available

Features and Benefits of the 400 Series Valve

- Carbon steel body with 2" vessel connection standard
- 316L Stainless steel body and wetted parts available
- Topworks available in 23 in² or 45 in² sizes
- Fail closed for safety
- Variety of trim plug and seat sizes and materials
- Packing gland and seals material options
- Rebuild kits available for all Pathway valves

Benefits of ALL Pathway Control Products

- Personalized service and support expertise
- Responsive, on-time delivery

• Time-tested & proven design providing dependable, long-term service

• Valves Made in USA







400 SeriesTwo Way, No-Freeze 2" Angle Valve

Specifications

Connection Size & Type: 2" MNPT vessel connection, 1" FNPT outlet

Working Pressure: 4000 psig max

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	MAXIMUM DIFFERENTIAL PRESSURE (psig)				
	23 sq.in Actuator 400-222		45 sq.in Actuator 400-223		
Supply Pressure	3/8" Orifice	1/2" Orifice	3/8" Orifice	1/2" Orifice	
15	850	500	2150	1500	
20	1600	1000	3450	2400	
25	2100	1450	4000	3600	
30	2100	1450	4000	4000	

Temperature: -20° F to +180° F; Available to +240° maximum temperature

Topworks:

Pneumatic Actuated Pressed steel diaphragm housing; nitrile diaphragm (nylon reinforced)

50 psig maximum supply pressure

Effective Area Diameter 23 in² 9" 45 in² 10.5"

Trim Size: CV Factor:

 1/4"
 2.0

 3/8"
 4.4

 1/2"
 5.5

Material Selections

Body:

400 Carbon steel 400SS 316L stainless steel

Trim Set: Snap acting, 316 SST trim plug, 303 SST trim seat standard;

Available in:

Snap acting, 316 SST trim plug, 316 SST trim seat Snap acting carbide trim plug, 17-4 PH SST trim seat

Seals & Packing: Molythane/brass packing gland, nitrile seals standard;

Available in:

Fluorocarbon/brass packing gland, fluorocarbon seals

Molythane/316 SST packing gland, nitrile seals, Nitronic 50 stem Fluorocarbon/316 SST packing gland, fluorocarbon seals, Nitronic 50 stem

Stem: 303 SST standard; Nitronic 50 available

NACE Package: NACE materials include 316L SST body and wetted internal

components, fluorocarbon/316 SST packing gland, fluorocarbon

seals, Nitronic 50 stem, 316 SST trim set

Maintenance

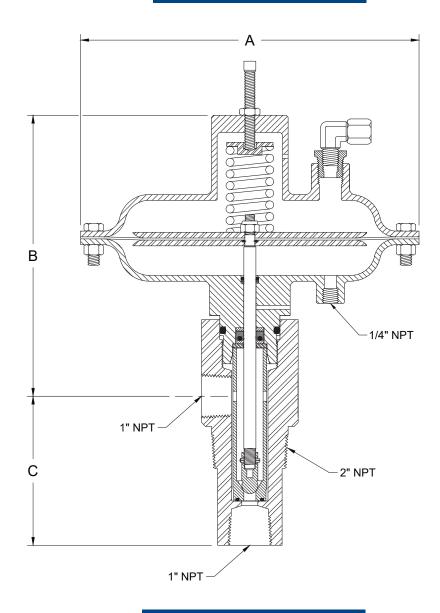
Rebuild Kits:Rebuild Kits available which include: valve packing gland, seals, trim set, valve stem, lock nut and diaphragam



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SAMPLE MODEL

MODEL 400-223-12A1



Dimensions for Standard Models

	400-222		400-223
A	9"		10½"
В	81/4"		85/8"
С	45/8"		43/8"

CAUTION:

Remove spring tension by backing off adjustment screw OR apply air pressure under diaphragm BEFORE removing topworks to prevent damage to trim.



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