

401 Series Two Way, No-Freeze 1" 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 401 Series Valve

- 1" carbon steel body standard
- 316L Stainless steel body and wetted parts available
- Topworks available in 45 in², 23 in² and 9 in² sizes
- Fail closed for safety
- Variety of trim plug and seat 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





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Specifications

Working Pressure:

1500 psig

Maximum Differential Pressure:

MAXIMUM DIFFERENTIAL PRESSURE (psig)					
Supply Pressure	9 sq.in Actuator	23 sq.in Actuator	45 sq.in Actuator		
15	300	1025	1500		
20	475	1450	1500		
25	625	1500	1500		
30	800	1500	1500		

Temperature:

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

Topworks:

Trim Size:

Pneumatic Actuated

1/2" (3/8"equivalent)

Pressed steel 23 in² diaphragm housing (standard) or 45 in² housing; nitrile diaphragm (nylon-reinforced); available Cast iron 9 in² housing 50 psig maximum supply pressure

Effective Area	Diameter
23 in ²	9"
45 in ²	10.5"
9 in ²	5.5"

CV Factor:

3.5

Material Selections	
Body: 401 401SS	Carbon steel 316L stainless steel
Trim Set:	Snap acting, 303 SST trim plug, 303 SST trim seat standard; Available in: Snap acting, 316 SST trim plug, 316 SST trim seat Snap acting, 17-4 PH SST plug, 17-4 PH SST 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, K500 Monel stem Fluorocarbon/316 SST packing gland, fluorocarbon seals, K500 Monel stem
Stem:	303 SST standard; K500 Monel available
NACE Package:	NACE materials include 316L SST body and wetted internal components, fluorocarbon/316SST packing gland, fluorocarbon seals, K500 Monel stem, 316 SST trim set
Maintenance Rebuild Kits:	Rebuild Kits available which include: valve packing gland, seals, trim set, valve stem, lock nuts and diaphragam

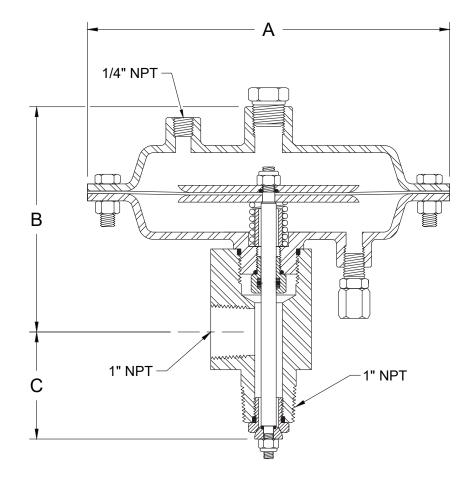


22262 Cuttler Road • New Caney, TX 77357 Phone 281-354-3699 • Fax 281-354-4475 www.PathwayControl.com

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Sample Model

MODEL 401-232-13A1



Dimensions for Standard Models					
	401-231	<u>401-232</u>	401-233		
<u>A</u>	5½"	9"	101/2"		
B	4%16"	5%"	6"		
С	211/16"	211/16"	211/16"		



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401 Series Two-Way No-Freeze 1" Angle Valve				
Ordering Chart Example: 401-2 3 2 - 1 3 A Select 401 or 401SS 401 401 401 2 1" Carbon steel body 0r 401SS 401SS 401SS 401SS 401SS 401SS 401SS	 (#) Option #, see Special Materials & Features below Other (as needed, add to end of model number) No visual indicator Heavy duty sealed visual indicator (on topworks 2 & 3) N NACE material - also choose: Trim Type 2 or 3 (with 17-4 PH SST exception)			
Image: Constant constraints CONNECTION 3 1" MNPT vessel connection, 1" FNPT outlet DIAPHRAGM OPERATED TOPWORKS 1 Spring under (9 in ² - fail closed) 2 Spring under (23 in ² - fail closed) 3 Spring under (45 in ² - fail closed)	SEALS & PACKING A Nitrile/brass packing gland, nitrile seals B Fluorocarbon/brass packing gland, fluorocarbon seals C Nitrile/316 SST packing gland, nitrile seals, K500 Monel stem D Fluorocarbon/316 SST packing gland, fluorocarbon seals, K500 Monel stem SPECIAL MATERIAL & FEATURES			
TRIM TYPE 1 Snap acting, 303 SST Plug, 303 SST Seat 2 Snap acting, 316 SST Plug, 316 SST Seat 3 Snap acting, 17-4 PH SST Plug, 17-4 PH SST Seat TRIM SIZE 3 ½" (%" equivalent)	 5 Used by Pathway to indicate custom material and/or feature. Placed in model number in the position it relates to (eg. trim plug, trim seat, etc.). When used, an option number will be assigned by Pathway (see below) (#) Option # (in parentheses at end of model number) Pathway will assign option number unique to custom material and/or features 			