

402 Series Two Way, 1" Angle Valve

Application

- Used for snap acting on-off control of higher pressure liquids or gas
- Oil and gas separators, gas scrubbers or any liquid accumulators are a few applications
- NACE material packages available

Features and Benefits of the 402 Series Valve

- 1" carbon steel body standard; other connections available
- 316L Stainless steel body and wetted parts available
- Topworks available in 45 in², 23 in² and 9 in² sizes
- Variety of trim plug and seat materials
- Packing gland and seals material options
- Custon connections available
- Inline serviceability of internal components
- Fail closed for safety
- 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





402 Series Two Way, 1" Angle Valve				
	Vo Way, T Angle Valve			
Specifications Connection Size & Type:	1" MNPT vessel connection, 1" FNPT outlet standard 1" RF or RTJ flanged from 150# to 900# Smaller NPT connections available upon request			
Working Pressure:	4000 psig max			
Maximum Differential Pressure:	Topworks9"23"45"Supply PSIG20302030 $\frac{\text{Orifice}}{\frac{1}{4}"}$ 570550125040004000 $\frac{3}{8}"$ 250675625185028853305 $\frac{1}{2}"$ 170450425125019252205			
Temperature:	-20°F to +180°F; available to +240°F			
Topworks- Pneumatic Actuated:	Pressed steel 23 in² or 45 in² diaphragm housing; Cast iron 9 in²diaphragm housing; nitrile diaphragm (nylon reinforced)50 psig maximum Supply pressureEffective AreaDiameter $45 in²$ $10.5"$ $23 in²$ $9"$ $9 in²$ $5.5"$			
Trim Size: ^{1/8} " ^{1/4} " ^{3/8} " ^{1/2} " Material Selections	CV Factor: 0.4 2.2 4.6 8.4			
Body: 402 402SS	Carbon steel 316L stainless steel			
Trim Set:	Snap acting or Throttling 17-4 PH SST trim set standard; Available in: Snap acting or Throttling Carbide trim plug, 17-4 PH SST trim seat Snap acting or Throttling Carbide-K coating trim set Snap acting or Throttling Acetal soft 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, K500 Monel stem Fluorocarbon/316 SST packing gland, fluorocarbon seals, K500 Monel stem			
Stem Material:	303 SST standard; K500 Monel available			
NACE Package:	NACE materials include 316L SST body and wetted internal components, fluorocarbon/316 SST packing gland, fluorocarbon seals, K500 Monel stem, 316 SST trim set			

Maintenance

Rebuild Kits:

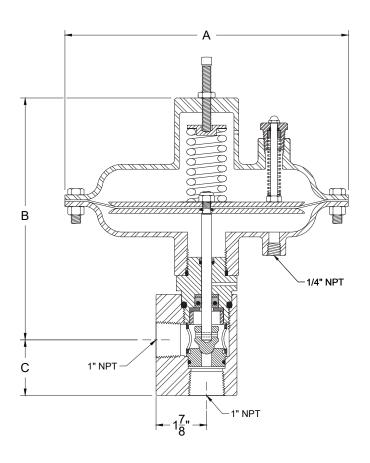


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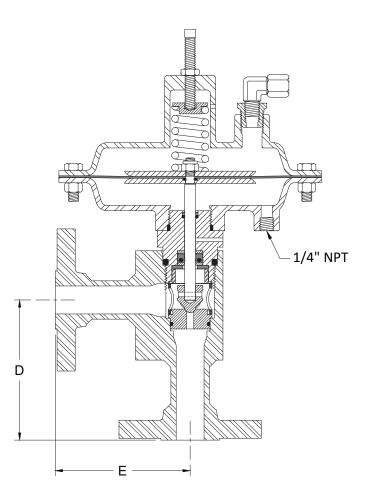
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MODEL 402-113-12A1

MODEL 402-13B2-11A1



Dimensions for Standard Models				
	<u>402-113</u>	<u>402-112</u>	<u>402-11</u>	
А	10½"	9"	51/2"	
В	9¼"	7¾"	7¼"	
С	21/16"	21/16"	21/16"	



FLANGED MODELS

Dimensions for Flanged Models				
<u>1" Flange</u>	<u>D</u>	E		
150# RF	47/16"	4¼"		
300# RF	413/16"	4%"		
600# RF	51/16"	5"		
900# RF	5 1/8 "	5%"		
150# RTJ	45%"	47/16"		
300# RTJ	5"	413/16"		
600# RTJ	51/16"	5"		
900# RTJ	51/8"	5%"		

CAUTION:

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



402 Series Two Way, 1" Angle Valve				
Ordering Chart Example: Select 402 or 402SS 402 VALVE SIZE 402 1 1" Carbon steel body or 402SS VALVE SIZE 402SS 1 1" 316L Stainless steel body	402 - 1 1 2 - 1 2 A 2 (#) Option #, see Special Materials & Features below (#) Option #, see Special Materials & Features & Fe			
CONNECTION 1 1" FNPT inlet, 1" FNPT outlet 3 Flanged - add letter from Flange Chart FLANGE CLASS/TYPE CHART	SEALS & PACKING A Nitrile/molythane/brass packing gland, nitrile seals B Fluorocarbon/brass packing gland, fluorocarbon seals C Nitrile/molythane/316 SST packing gland, nitrile seals K500 Monel stem D Fluorocarbon/316 SST packing gland, fluorocarbon			
Add when using connection 3 A 150# RF B 300# RF C 600# RF D 900# RF F 150# RTJ G 300# RTJ H 600# RTJ J 900# RTJ	seals, K500 Monel stem TRIM SIZE 0 ½%"(Throttling in 17-4 PH SST only) 1 ¼" 2 ¾" 3 ½"			
DIAPHRAGM OPERATED TOPWO 1 Spring on top (9 in² - fail closed) 2 Spring on top (23 in² - fail closed) 3 Spring on top (45 in² - fail closed) TRIM TYPE 1 Sector at ices 17, 4 DU SCT	RKS 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			
 Snap acting 17-4 PH SST Throttling 17-4 PH SST Snap acting carbide Throttling carbide Snap acting carbide-K coating 				

Throttling carbide-K coating 7 Snap acting acetal - soft trim 8

Throttling acetal - soft trim 9