

Two-Way, Balanced Piston, Higher Pressure Valve

#### **Application**

- Designed for bubble tight shut off on high differential pressures
- 8900 Series Valves replaces high pressure, double ported valves and provides positive closure
- Commonly used for shutting in of oil or gas wells
- NACE compliant materials available

#### Features and Benefits of the 8900 Series Valve

- Carbon steel body standard
- 316L stainless steel body available to CF3M specifications in 1" size and CF8M in 2" size
- Fails closed at high pressure without depending on an internal spring; provides added safety
- In-line serviceability of internal components
- Stainless steel stem, piston housing and seat provides longer field life
- Soft trim provides bubble tight shut off
- Variety of trim plug and seat materials available including hard trim
- · 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 and castings Made in USA



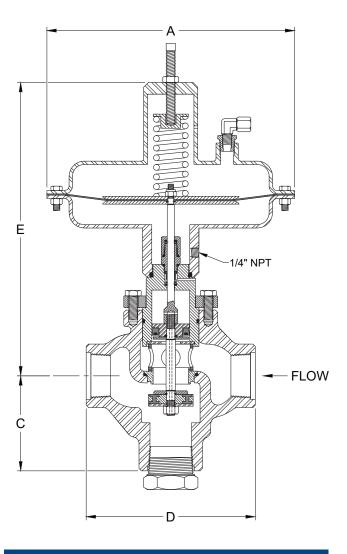


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## Sample Models

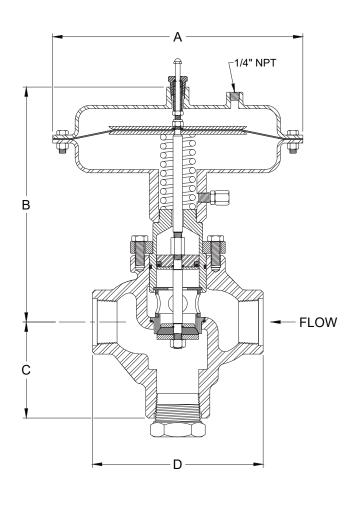
### 8900-211-11A1

### Fail Open



### 8900-212-12A2

## Fail Closed



## Flanged Models Dimensions

Flange	Face to Face	W.P. @ 100°F
1" 150# RF or RTJ		
2" 150# RF or RTJ		
1" 300# RF or RTJ		
2" 300# RF or RTJ	10¼"	720 psig
1" 600# RF or RTJ	7¾"	1440 psig
2" 600# RF or RTJ	10%"	1440 psig
1" 900# RF or RTJ	10¾"	1500 psig
2" 900# RF or RTJ	14"	1500 psig

V	alve Dimensions	5	
Size	1"	2"	
A	10½"	133/16"	
В	75/8"	123/8"	
C	21/8"	51/16"	
D	6½"	9"	
E	N/A	155/8"	

Special Face to Face available on flanged and beveled connections.



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Specifications

Size: 1" Tee Body 2" Tee Body

Working Pressure: 1500 psig 1500 psig

**Temperature:** 20°F to +180°F standard; available to +240°F

**Topworks:** Pressed steel with nylon reinforced nitrile diaphragm;

50 psig maximum supply pressure.

Effecive Area: 45 sq. in. 62 sq. in.

**Cv Factor:** 18 48

Material

Body: 8900 - Cast steel

8900SS - 316L Stainless steel

Stainless steel; Nitronic 50 available

**Piston:** Brass; Nitronic 50 available

**Packing:** Molythane; fluorocarbon available

**Trim Seat:** Stainless steel, removable; available 316 SST, Hastelloy, 17-4 PH SST

**Trim Plug:** Steel with molded nitrile standard; trim plug inserts available in acetal,

polyurethane, PTFE; hard trim available in 303 SST; 316 SST; Hastelloy;

17-4 PH SST

**Piston Housing:** Stainless steel; 316 SST Available

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

fluorocarbon/316 SST packing gland, fluorocarbon seals, 316 SST lower stem, Nitronic 50 piston, PTFE or molded fluorocarbon trim plugs, or

hard trim selection

Maintenance

**Rebuild Kits:** Rebuild Kits available which include: valve packing, seals, trim plug,

valve stem, lock nuts and diaphragm



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Ordering Chart Example:

 $8900 - \frac{2}{4} + \frac{1}{4} + \frac{2}{4} - \frac{1}{4} + \frac{2}{4} + \frac{1}{4}$ 

(#) Option #, see Special Materials & Features below

8900 VALVE SIZE		
	8900	
1	1" Carbon steel body	
2	2" Carbon steel body	

or

	8900SS VALVE SIZE	
8900SS		
1	1" 316L Stainless steel body	
2	2" 316L Stainless steel body	

CONNECTION	
1	Threaded
3	Flanged - add letter from Flange Chart
4	Beveled for weld

FLANGE CLASS/TYPE CHART Add when using connection 3		
Α	150# RF	
В	300# RF	
С	600# RF	
D	900# RF	
Е	1500# RF	
F	150# RTJ	
G	300# RTJ	
Н	600# RTJ	
J	900# RTJ	
K	1500# RTJ	

TOPWORKS			
	Diaphragm Operated		
1	Spring on top - fail open		
2	Spring under - fail closed		
Adaptor for Hydraulic Electric Actuator			
6	Adaptor, actuator H10/11-B2		
7	Adaptor, actuator H30/31-B10/21		

TRIM SEAT	
1	303 SST standard
2	316 SST
Н	Hastelloy
P	17-4 PH SST

	Other (as needed, add to end of model number)	
-[	1	No visual indicator
	2	Heavy duty sealed visual indicator
	4	Open Yoke (for high temperature or position indicator)
	N	NACE material - also choose: Trim Seat 2, H or P (with exception) Trim Plug exclude 8; P (available with exception) Seals & Packing C or D
	P	Nickel-plated non-stainless wetted parts
	S	Stress relief for welded flanges

	SEALS & PACKING		
-	A	Molythane packing, nitrile seals; brass piston	
	В	Fluorocarbon packing, fluorocarbon seals; brass piston	
	С	Molythane packing, nitrile seals; Nitronic 50	
		piston, 316 SST retainer, Nitronic 50 lower stem	
	D	Fluorocarbon packing, fluorocarbon seals; Nitronic 50 piston; 316 SST packing, fluorocarbon seals,	
		Nitronic 50 lower stem	

	TRIM PLUG	
1	Molded nitrile/steel	
2	Acetal	
3	Polyurethane	
4	TFE glass-filled	
7	Molded fluorocarbon/steel	
8	303 SST hard trim	
9	316 SST hard trim	
Н	Hastelloy hard trim	
P	17-4 PH SST hard trim	

#### **SPECIAL MATERIAL & FEATURES**

- 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