

Bulletin
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NOR'EAST™

CONTROLS



SINGLE SEATED VALVES

SERIES 4800 MODEL 4805



Previously manufactured by
Dezurik® and Honeywell®

Description:

The Model 4805 valve combines a light duty, cast iron valve with a pneumatic actuator for low-maintenance and high performance service. The spring-type actuator provides either direct or reverse action as specified.

Accessories:

- Top-mounted handwheel (direct-acting only)
- Top- and side-mounted positioners
- Top-mounted (direct-acting) or bottom-mounted (reverse-acting) Gradutrol positioner
 - o Allows start-pressure to be set anywhere between 3 and 10 psig.
 - o Span can be set at 3.6, 6 or 12 psig.
- Micro Switch precision switches
- Solenoids
- Air sets

SPECIFICATIONS

Actuator

Type	Pneumatic, diaphragm-actuated type 05. Direct or reverse acting with non-reversible body.
Construction	Anodized aluminum diaphragm cases and yoke.
Diaphragm Material	Molded of flexible Neoprene and convoluted to retain a constant effective area through the total stroke. Ambient temperature range of -29° to 71°C (-21° to -160°F).
Effective Diaphragm Material	Direct acting: 40 in ² (258 cm ²) Reverse acting: 38 in ² (245 cm ²)
Actuator Stem	Zinc-plated steel.
Spring	Totally enclosed and corrosion resistant. Ranges: 3 to 15 psig standard. (For other ranges, see Table 2)
Air Pressure (Air-to-diaphragm)	Normal: 18 or 26 psig (124 or 172 kPa). Maximum: 35 psig (241 kPa).
Air Connections	1/4" NPT.

Body

Type	Single-seated, straight-through. Non-reversible.
Material	Cast Iron
Sizes	Screwed end: 1/2, 3/4, 1 1/4, 1 1/2 and 2 inch.
Ratings	125 lb. ANSI

SPECIFICATIONS

Bonnet

Type	Plain: For process temperatures between 0° to 178°C (32° and 353°F).
Packing	Screwed Box: Spring-loaded Teflon V-Ring.

Trim

Material	Stainless steel.
Plugs	Modified linear V-port.
Seat Rings	Screwed into body, replaceable.
Valve Travel	3/4 inch (19mm).

ORDERING DATA

Please Specify:

- Valve Model 4805
- Body Material
- Size
- Bonnet
- Packing
- Trim material
- Spring range
- Accessories

Table 1 - Flow Coefficient Cv

Valve Size	Modified Linear V-Port
.5" 15mm	2.4 & 4.0
.75" 20mm	6.3
1" 25mm	10
1.25" 31.75mm	15
1.5" 40mm	23
2" 50mm	38

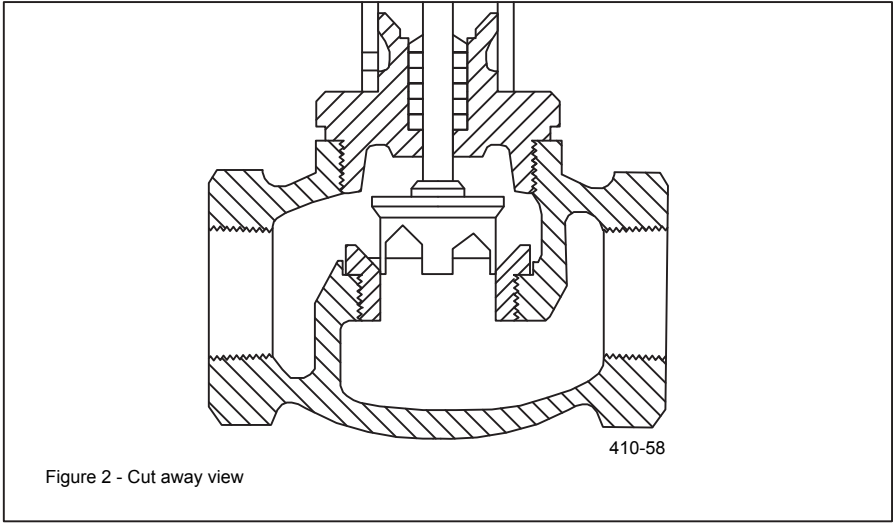


Table 2 - Maximum Pressure Differential in Closed Position

Air-to-Close							
Air Supply Psig.	Spring Range Psig.	Valve Size (inches) and Cv ()					
		1/2 (2.4 & 4.0)	3/4 (6.3)	1 (10)	1 1/4 (15)	1 1/2 (23)	2 (38)
18	3-15	120	120	120	60	35	15
	9-15	120	120	120	60	35	15
	3-9	125	120	120	125	125	90
25	3-15	125	125	125	125	125	125
	3-9	125	125	125	125	125	125
	9-15	125	125	125	125	125	125
Air-to-Open							
18	3-15	120	120	120	60	35	15
	9-15	120	120	120	60	35	15
	3-9	125	120	120	125	125	90

Dimensions

Note: $\frac{\text{Inches}}{\text{Millimeters}}$

Table 3 - Screwed Ends

Valve Size	A	B	C	D
	Plain Bonnet			
1/2 & 3/4	3.69	13.69	2.38	1.0
	94	348	60	25
1	4.5	13.63	2.31	1.38
	114	346	59	35
1 1/4	5.0	13.75	2.44	1.63
	127	349	62	41
1 1/2	5.5	13.75	2.44	1.88
	140	349	62	48
2	6.5	14.06	2.75	2.13
	165	357	70	54

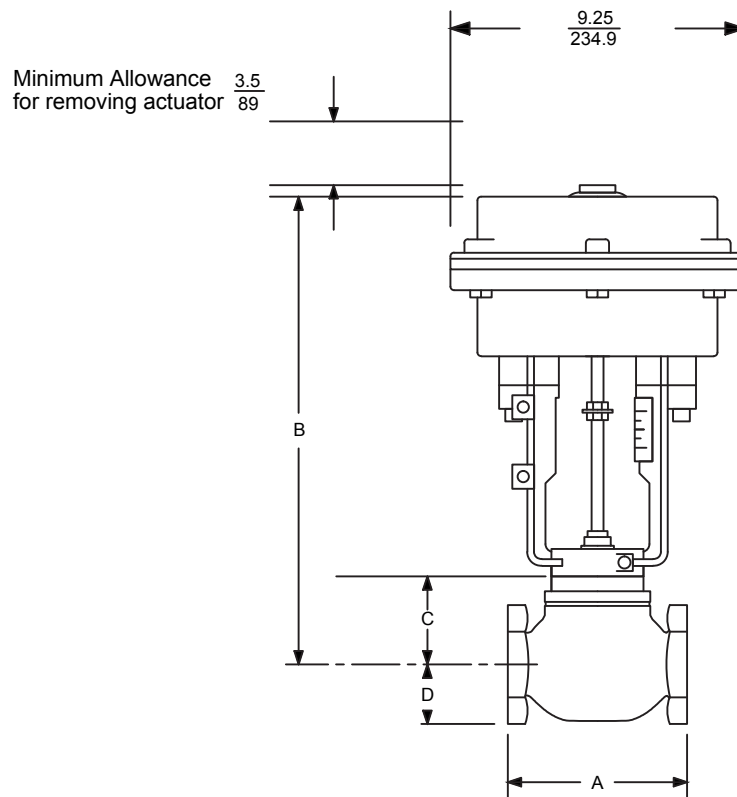


Figure 3

Add additional 1.25" (33mm) to actuator overall with reverse acting actuator

NOTES:

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