Bulletin 783.05-3NE January 2016

NOR EAST CONTROLS

THREE WAY VALVES - MIXING SERIES 8300 MODEL 8305



Previously manufactured by Dezurik[®] and Honeywell[®]

Dimensions: Inches Millimeters

Description:

Nor'East Series 8300	3-Way Brass globe valves are designed for light duty, m	ixing applications. These valves	5
are available in 1/2 t	hrough 2-inch sizes screwed ends. The spring-type pneun	natic diaphragm actuator is	↓ I
available as either di tions.	rect or reverse action as specified. Figure 1 shows the flo	w dvitieutiom i Alloiwangce pp <u>tica</u> - for removing actuator 89	
			<u>†</u> †
Accessories:			
• Top-mounted hand	dwheel (direct-acting actuator)		
• Side-mounted pos	itioners		
Micro Switch preci	sion switches		
 Solenoids 			
• Air sets		E	B
Actuator			
Туре	Pneumatic, diaphragm-actuated type 05. Direct or reverse acting	g. Add additional 1.25"	
Construction	Cast aluminum diaphragm cases and yoke.	(33 mm) to actuator	
Diaphragm Material	Molded of flexible Neoprene and convoluted to retain a constan stoke. Ambient temperature range of -29° to 71°C (-21° to -160°	t effective area through the total acting actuator	
Effective Diaghragm Material	Direct acting: 40 in² (258 cm²) Reverse acting: 38 in² (245 cm²)		y
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) for reverse acting, 50 psig (345 kPa) for direct acting.	
Air Connections	1/4" NPT.	Figure 3 - Dimensio	ns for mod
De de :			

Body

Туре	hree-way, globe-type body for mixing service.			
Material	Brass			
Sizes	Screwed end: 1/2, 3/4, 1, 1 1/4, 1 1/2 and 2 inch.			
Ratings	150 psi			

Bonnet

Туре	Type Plain: For process temperatures between 40° and 250°F (4.4 and 121°C)						
Packing	Spring-loaded, carbon fiber reinforced PTFE V-rings.						

Trim

Material	Brass
Plug	Linear contour plug stem-guided for throttling or two position (on-off) control.
Valve Travel	3/4 inch (19mm).
Leakage	Maximum allowable leakage under factory testing is 0.01% of rated Cv.
Sizing Data	(see Tables 1 and 2)
Dimensions	(see Table 3 and Figure 2)

ORDERING DATA

Please Specify:

- Valve Model 8305
- Size
- Spring Range
- Air-to-Open or Air-to-Close
- Accessories

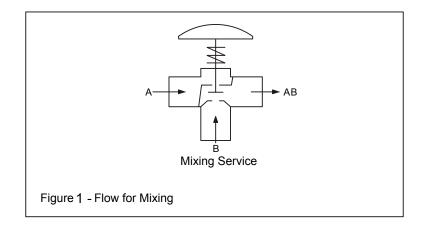


Table 1 - Flow Coefficient Cv

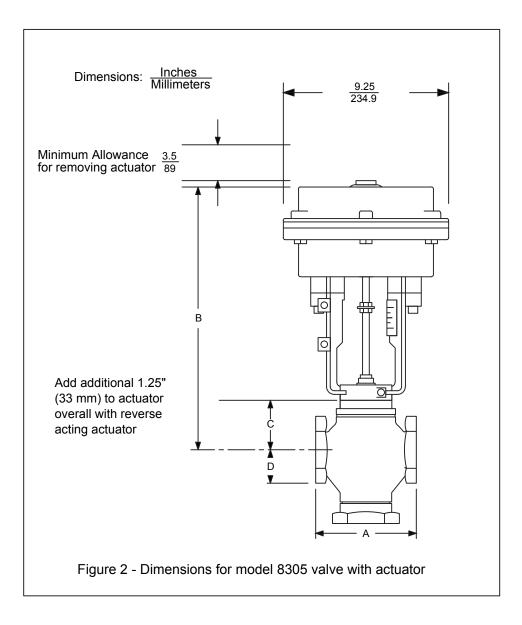
Plug	Nominal Valve Size (inches)						
	1/2	3/4	1	1 1/4	1 1/2	2	
Linear Contour	4.7	7.3	11.7	18.7	29.3	46.3	

Table 2 - Maximum Pressure Differentials in Closed Positions

		Air Supply	Spring Range	Valve (inche					
Service	Control	Psig	Psig	1/2	3/4	1	1 1/4	1 1/2	2
Mixing	Throttling or	18	3 - 15, 3 - 9, 9 - 15	50	50	50	50	35	15
On-Off	25	3 - 15, 3 - 9	50	50	50	50	35	15	
			9 - 15	50	50	50	50	50	50

Table 3 - Dimensions

Valve Size	А	В	С	D
1/2	3-1/4"	12-7/8"	1-9/16"	2-9/16"
	(83mm)	(327mm)	(39.7mm)	(65mm)
3/4	3-1/4"	12-7/8"	1-9/16"	2-9/16"
	(83mm)	(327mm)	(39.7mm)	(65mm)
1	4-1/16"	12-7/8"	1-9/16"	2-5/8"
	(103mm)	(327mm)	(39.7mm)	(66.5mm)
1 1/4	4-3/16"	12-7/8"	1-9/16"	2-7/8"
	(106mm)	(327mm)	(39.7mm)	(72.5mm)
1 1/2	4-3/4"	13-1/8"	1-13/16"	' 3"
	(120mm)	(333mm)	(46.5mm)	(77mm)
2	5-1/4"	13-1/8"	1-13/16"	3-5/16"
	(134mm)	(333mm)	(46.5mm)	(83.5mm)



NOTES:

NOTES:

Guarantee

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