

Bulletin
V5013-12
January 2016

NOR'EAST™

CONTROLS



GLOBE VALVES MIXING & DIVERTING V5013 Series



Previously manufactured by
Dezurik® and Honeywell®

Description:

The Nor' East Series 8600 (mixing) and Series 8900 (diverting) cage valves are designed for light industrial applications. The spring-type pneumatic diaphragm actuation is available as either direct or reverse acting as specified.

Accessories:

- Side mounted positions, pneumatic and electro pneumatic
- Limit switches
- Top mounted Handwheel
- Air Filter regulator
- Transducer
- Solenoid

SPECIFICATIONS

Actuator

Type 05 (For 2-1/2 and 3-inch)	Pneumatic diaphragm-actuated. Direct or reverse acting
Construction	Anodized aluminum diaphragm cases and yokes
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 (-20° to 160°F).
Effective Diaphragm Area	Direct acting: 40 in ² (258 cm ²) Reverse acting: 38 in ² (245 cm ²)
Actuator Stem	Zinc-plated steel.
Spring	Total enclosed and corrosion resistant. Range: 3 to 15 psig standard. (For other ranges, see Table 2).
Air Pressure (Air-to-diaphragm)	Normal: 18 or 25 psig (124 or 172 kPa) Maximum Operating: 35 psig (241 kPa)
Air Connections	1/4" NPT.
Type 01 (For 4, 5, 6, & 8-inch)	Pneumatic, diaphragm-actuated. Direct or reverse acting.
Construction	Pressed steel diaphragm case plates and heavy duty, cast iron yoke. Finished in blue corrosion-resistant enamel.
Diaphragm Material	Molded of Buna N with nylon insert. Ambient temperature of -29° to 82°C (-20° to 180°F). Other materials are available for high or lower temperatures.
Spring	Totally enclosed. Range: 3 to 15 psig standard. (For other ranges, see Table 2).
Air Pressure (Air-to-diaphragm)	Normal: 18 or 25 psig (124 or 172 kPa). Maximum: 50 psig (344 kPa).
Air Connections	1/4" NPT.

Body

Type	Three-way, mixing or diverting with single piece body and cage type inner valve construction.
Material	Cast iron.
Sizes	Model 8605 and 8905: 2-1/2 and 3 inch. Model 8601 and 8901: 4, 5, 6 and 8 inch.
Ratings	Flanged ends: 125 lb or ANSI in all sizes.

Bonnet

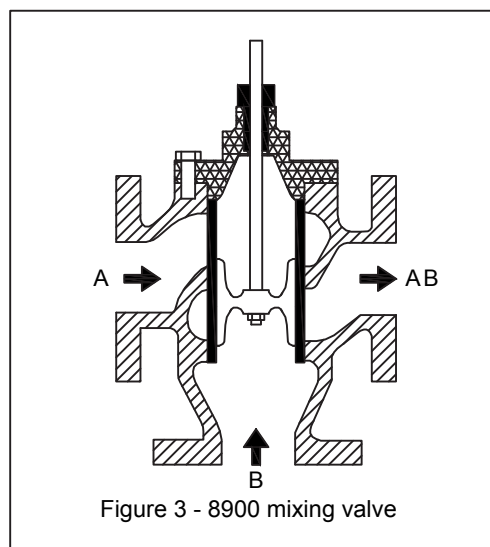
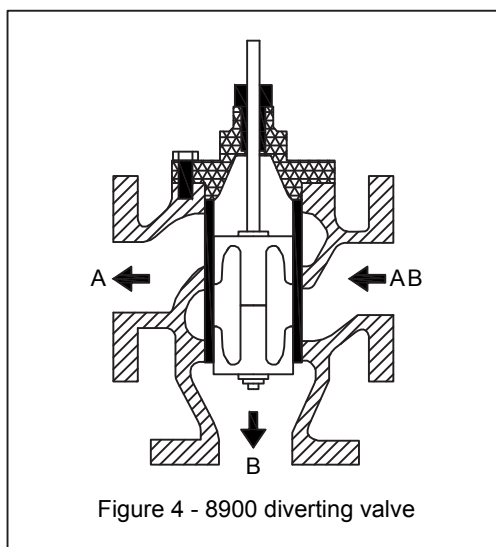
Packing	Screwed Box: Valve sizes: 2-1/2, 3, 4, 5 and 6 inch. Spring-loaded Teflon V-rings. Bolted Box: 8-inch valve. Spring-loaded Teflon V-rings.
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Trim

Seats	Replaceable bronze. Both seats held in place by bronze cage and sealed in body by rubber o-rings.
Plug	Bronze; linear characteristic.
Valve Travel	(See Table 2).

Sizing Data

Table 1 - FLOW COEFFICIENT Cv						
Plug Type	Valve Size (Inches)					
	2-1/2	3	4	5	6	8
Linear	63	100	160	250	360	600



ORDERING DATA

Please Specify:

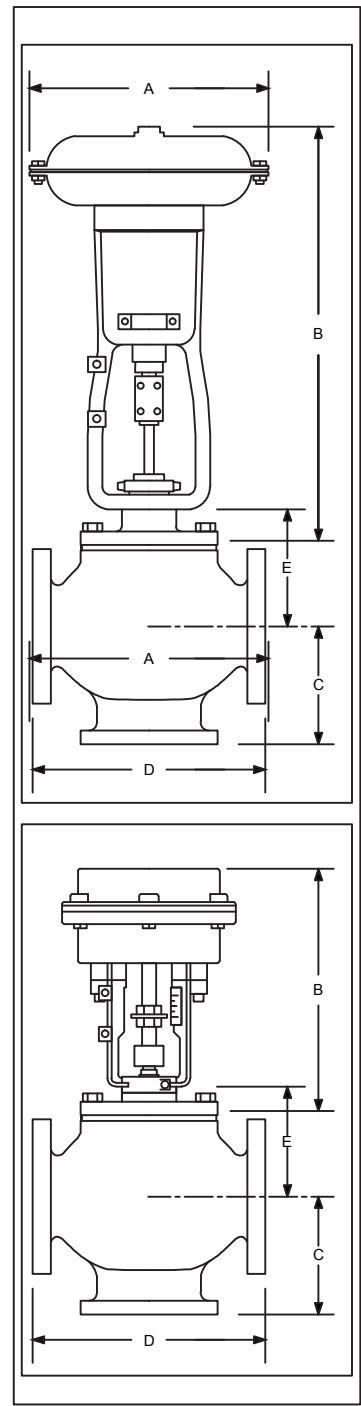
- Valve Model 8601 or 8605 (mixing service)
- Valve Model 8901 or 8905 (diverting service)
- Size
- Body Rating
- Packing
- Spring Range
- Actuator Size
- Action (refer to Table 3)
- Accessories

TABLE 2 - MAXIMUM PRESSURE DIFFERENTIALS IN CLOSED POSITION								
Actuator Type, Size & Travel ()	Air Supply Psig	Spring Range Psig	Valve Size (inches)					
			2-1/2	3	4	5	6	8
05 (3/4)	18	3-15	15	10	-			
		6-12	40	25	-			
	25	9-15	50	45	-			
01-13 (1-1/2)	18	3-15	-	-	15	9	6	
	25	7-15	-	-	50	35	24	
01-15 (2)	18	3-15	-	-	-	-	-	6
		3-9	-	-	-	-	-	10
	40	6-30	-	-	-	-	-	23
01-18S (2)	18	3-15	-	-	-	-	-	10
		4.5-10	-	-	--	-	-	19
	25	6-16.5	-	-	-	-	-	25
	40	8-29	-	-	--	-	-	40

TABLE 3 - VALVE ACTION		
Type	Direct Actuator (increased air signal)	Reverse Actuator (increased air signal)
8600 Mixing	Closes bottom port	Closes top port
8900 Diverting	Closes top port	Closes bottom port

TABLE 4 - MODELS 8601 AND 8901								
DIRECT ACTUATOR								
Valve Size	Actuator Size	A	B	C 125 Iron	C 250 Iron	D 125 Iron	D 250 Iron	E
4	13	15.0 381	27.63 702	8.69 221	9.5 241	10.0 330	14.5 368	7.5 191
5	13	15.0 381	28.13 715	9.63 245	10.18 259	15.0 381	16.75 425	8.0 203
6	13	15.0 381	28.94 735	10.69 272	11.18 284	16.5 419	18.62 473	8.8 224
8	15	17.5 445	34.63 880	14.0 356	14.62 371	21.38 543	22.38 568	9.25 235
	18S	20.5 521	38.13 969	14.0 356	14.62 371	21.38 543	22.38 568	9.25 235
REVERSE ACTUATOR								
4	13	15.0 381	30.38 772	8.69 221	9.5 241	13.0 330	14.5 368	7.5 191
5	13	15.0 381	30.88 784	9.63 245	10.18 259	15.0 381	16.75 425	8.0 203
6	13	15.0 381	31.69 805	10.69 272	11.18 284	16.5 419	18.62 473	8.8 224
8	15	17.5 445	38.38 975	14.0 356	14.62 371	21.38 543	22.38 568	9.25 235
	18S	20.5 521	41.63 1057	14.0 356	14.62 371	21.38 543	22.38 568	9.25 235

TABLE 5 - MODELS 8605 and 8905								
Valve Size	Actuator Size	A	B	C 125 Iron	C 250 Iron	D 125 Iron	D 250 Iron	E
2-1/2	05	9.25 235	15.94 405	6.44 164	7.0 178	9.5 241	11.5 292	4.63 118
3	05	9.25 235	16.56 421	6.63 168	7.5 191	11.0 279	12.5 318	5.25 133



REPAIR PARTS LIST

2 1/2" V5013-B1003 (Mixing)		
Description	Part Number	Qty Req.
Gasket	30067859 859	1
Packing	30041035 854	5
O-Ring	30684011 001	2
Seat Ring	30067842 905	2
Packing Nut	30067857 107	1
Spring flange	30041086 107	1
Spring	30041084 218	1
Stem head	30041088 107	1
Stem	30067837 316	1
Plug	30067832 760	1

3" V5013-C1019 (Diverting)		
Description	Part Number	Qty Req.
Gasket	30067860 859	1
Packing	30041035 854	5
O-Ring	30067531 891	2
Seat Ring	30067843 905	2
Packing Nut	30067857 107	1
Spring flange	30041086 107	1
Spring	30041084 218	1
Stem head	30041088 107	1
Stem	30067872 316	1
Plug	30067867 760	2

2 1/2" V5013-C1001 (Diverting)		
Description	Part Number	Qty Req.
Gasket	30067859 859	1
Packing	30041035 854	5
O-Ring	30684011 001	2
Seat Ring	30067842 905	2
Packing Nut	30067857 107	1
Spring flange	30041086 107	1
Spring	30041084 218	1
Stem head	30041088 107	1
Stem	30067871 316	1
Plug	30067866 760	2

4" V5013-B1029 (Mixing)		
Description	Part Number	Qty Req.
Gasket	30067861 859	1
Packing	30041036 854	6
O-Ring	30067533 891	2
Seat Ring	30067844 905	2
Packing Nut	30067858 001	1
Spring flange	30041087 107	1
Spring	30041085 218	1
Stem head	30041089 235	1
Stem	30067839 316	1
Plug	30067834 760	1

3" V5013-B1011 (Mixing)		
Description	Part Number	Qty Req.
Gasket	30067860 859	1
Packing	30041035 854	5
O-Ring	30067531 891	2
Seat Ring	30067843 905	2
Packing Nut	30067857 107	1
Spring flange	30041086 107	1
Spring	30041084 218	1
Stem head	30041088 107	1
Stem	30067838 316	1
Plug	30067833 760	1

4" V5013-C1027 (Diverting)		
Description	Part Number	Qty Req.
Gasket	30067861 859	1
Packing	30041036 854	6
O-Ring	30067533 891	2
Seat Ring	30067844 905	2
Packing Nut	30067858 001	1
Spring flange	30041087 107	1
Spring	30041085 218	1
Stem head	30041089 235	1
Stem	30067873 316	1
Plug	30067868 760	2

REPAIR PARTS LIST

5" V5013-B1037 (Mixing)		
Description	Part Number	Qty Req.
Gasket	30067862 859	1
Packing	30041036 854	6
O-Ring	30067535 891	2
Seat Ring	30685316 001	2
Packing Nut	30067858 001	1
Spring flange	30041087 107	2
Spring	30041085 218	1
Stem head	30041089 235	1
Stem	30067840 316	1
Plug	30067835 100	1

6" V5013-C1043 (Diverting)		
Description	Part Number	Qty Req.
Gasket	30067863 859	1
Packing	30041036 854	6
O-Ring	30067856 891	2
Seat Ring	30067849 100	2
Packing Nut	30067858 001	1
Spring flange	30041087 107	2
Spring	30041085 218	1
Stem head	30041089 235	1
Stem	30067875 316	1
Plug	30067870 100	2

5" V5013-C1035 (Diverting)		
Description	Part Number	Qty Req.
Gasket	30067862 859	1
Packing	30041036 854	6
O-Ring	30067535 891	2
Seat Ring	30685316 001	2
Packing Nut	30067858 001	1
Spring flange	30041087 107	2
Spring	30041085 218	1
Stem head	30041089 235	1
Stem	30067874 316	1
Plug	30067835 100	2

6" V5013-B1045 (Mixing)		
Description	Part Number	Qty Req.
Gasket	30067863 859	1
Packing	30041036 854	6
O-Ring	30067856 891	2
Seat Ring	30067849 100	2
Packing Nut	30067858 001	1
Spring flange	30041087 107	2
Spring	30041085 218	1
Stem head	30041089 235	1
Stem	30067841 316	1
Plug	30067836 100	1

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