Bulletin 783.05-3NE January 2016

# NOR EAST CONTROLS

## THREE WAY VALVES - MIXING SERIES 8300 MODEL 8305



Previously manufactured by Dezurik<sup>®</sup> and Honeywell<sup>®</sup>

#### 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 <b>dvitieutiom</b> i <b>Alloiwangce</b> 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		
<ul> <li>Solenoids</li> </ul>			
• 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)		<b>y</b>
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.						

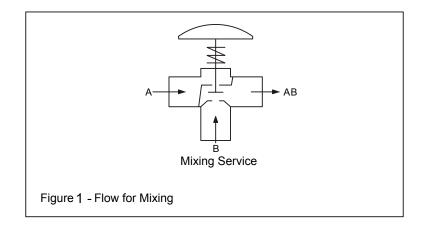
#### Trim

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

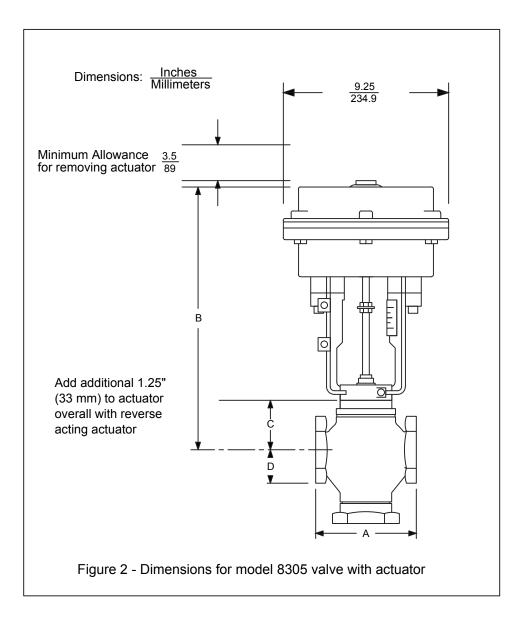
Plug	Nominal Valve Size (inches)						
	1/2	3/4	1	1 1/4	1 1/2	2	
Linear Contour	4.7	7.3	11.7	18.7	29.3	46.3	

#### 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

Products, auxiliaries and parts thereof, of Allagash International Group, LLC, a manufacturer of Nor' East Controls, are guaranteed for a period of one year from the date of shipment against defective workmanship and material only, when properly installed, operated and serviced in accordance with Allagash International Group, LLC recommendations. Replacement for items of Allagash International Group, LLC manufacture will be made free of charge if proved to be defective within such time. No claim for special or consequential damages, transportation, or labor shall be allowed. Purchaser shall be solely responsible for determining suitability for use and in no event shall Allagash International Group, LLC be liable in this respect. Equipment or parts manufactured by others but furnished by Allagash International Group, LLC does not guarantee resistance to corrosion, erosion, abrasion or other sources of failure, nor does Allagash International Group, LLC guarantee a minimum length of service. Failure of the purchaser to give prompt written notice of any alleged defect under this guarantee forthwith upon its discovery, or use and possession thereof after an attempt has been made and completed by someone other than Allagash International Group, LLC or an authorized representative to remedy defects therein, or failure to return products or parts for replacement as herein provided, of failure to install, operate, and maintain said products or parts according to instructions provided by Allagash International Group, LLC, of failure to pay the entire contract price when due, shall be a waiver of all rights under these representations.

The foregoing guarantee shall be null and void, if, after shipment from our factory, the item is modified in any way or component of another manufacturer, such as but not limited to; an actuator is attached to the item by valves & controls other than a Allagash International Group, LLC.

Factory Service Personnel. All orders accepted shall be deemed accepted subject to this guarantee, which shall be exclusive of any other previous guarantee, and this shall be the only effective guarantee or warranty binding on Allagash International Group, LLC, anything to the contrary contained in the purchase order, or represented by any agent or employee of Allagash International Group, LLC, in writing or otherwise, notwithstanding, including but not limited to implied warranties.

THE FOREGOING OBLIGATIONS ARE IN LIEU OF ALL OTHER OBLIGATIONS AND LIABILITIES INCLUDING WARRANTIES OF FITNESS OR MERCHANTABILITY OR OTHERWISE, EXPRESSED OR IMPLIED IN FACT OR BY LAW, AND STATE NOR'EAST CONTROLS AND EXCLUSIVE LIABILITY AND PURCHASER'S EXCLUSIVE REMEDY FOR ANY CLAIM IN CONNECTION WITH THIS SALE OR FURNISHING OF SERVICES, GOODS, OR PARTS, THEIR OWN DESIGN, SUITABILITY FOR USE, INSTALLATION OR OPERATION.

#### **Limitation of Liability**

In no event shall Allagash International Group, LLC, a Manufacturer of Nor' East Controls be liable for any direct, indirect, special or consequential damages whatsoever, and Allagash International Group, LLC liability, under no circumstances, will exceed the contract price for the goods and/or services for which liability is claimed. Any action for breach of contract must be commenced within 1 year after the cause of the action has occurred.



## 70 Ingersoll Drive, Portland ME 04103 . phone 207-781-8831 . fax 207-781-8830 ALLAGASHINTERNATIONAL.COM

#### Sales and Service

Allagash International Group, LLC representatives are located in major cities throughout the world. For the name of the representative nearest you, email us: sales@allagashinternational.com

Allagash International, Group LLC reserves the right to incorporate our latest design and material changes without notice or obligation. Design features, materials of construction and dimensional data, as described in this bulletin, are provided for your information only and should not be relied upon unless confirmed in writing by Allagash International, Group LLC. Certified drawings are available upon request.