

Bulletin  
648.05-3NE  
January 2016

# 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.
  - Span can be set at 3.6, 6 or 12 psig.
- Micro Switch precision switches
- Solenoids
- Air sets

## SPECIFICATIONS

### Actuator

<b>Type</b>	Pneumatic, diaphragm-actuated type 05. Direct or reverse acting with non-reversible body.
<b>Construction</b>	Anodized aluminum diaphragm cases and yoke.
<b>Diaphragm Material</b>	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).
<b>Effective Diaphragm Material</b>	Direct acting: 40 in <sup>2</sup> (258 cm <sup>2</sup> ) Reverse acting: 38 in <sup>2</sup> (245 cm <sup>2</sup> )
<b>Actuator Stem</b>	Zinc-plated steel.
<b>Spring</b>	Totally enclosed and corrosion resistant. Ranges: 3 to 15 psig standard. (For other ranges, see Table 2)
<b>Air Pressure (Air-to-diaphragm)</b>	Normal: 18 or 26 psig (124 or 172 kPa). Maximum: 35 psig (241 kPa).
<b>Air Connections</b>	1/4" NPT.

### Body

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

## SPECIFICATIONS

### Bonnet

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

### Trim

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

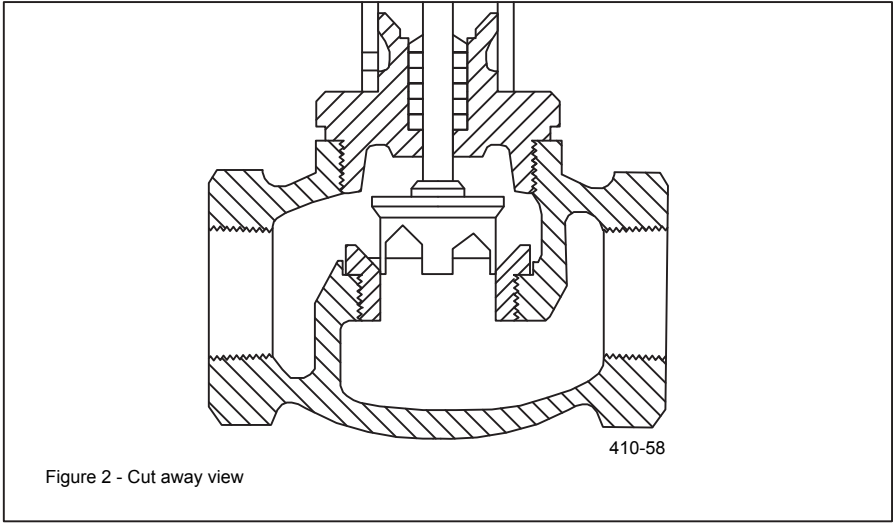
## ORDERING DATA

### 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	<b>3.69</b>	<b>13.69</b>	<b>2.38</b>	<b>1.0</b>
	94	348	60	25
1	<b>4.5</b>	<b>13.63</b>	<b>2.31</b>	<b>1.38</b>
	114	346	59	35
1 1/4	<b>5.0</b>	<b>13.75</b>	<b>2.44</b>	<b>1.63</b>
	127	349	62	41
1 1/2	<b>5.5</b>	<b>13.75</b>	<b>2.44</b>	<b>1.88</b>
	140	349	62	48
2	<b>6.5</b>	<b>14.06</b>	<b>2.75</b>	<b>2.13</b>
	165	357	70	54

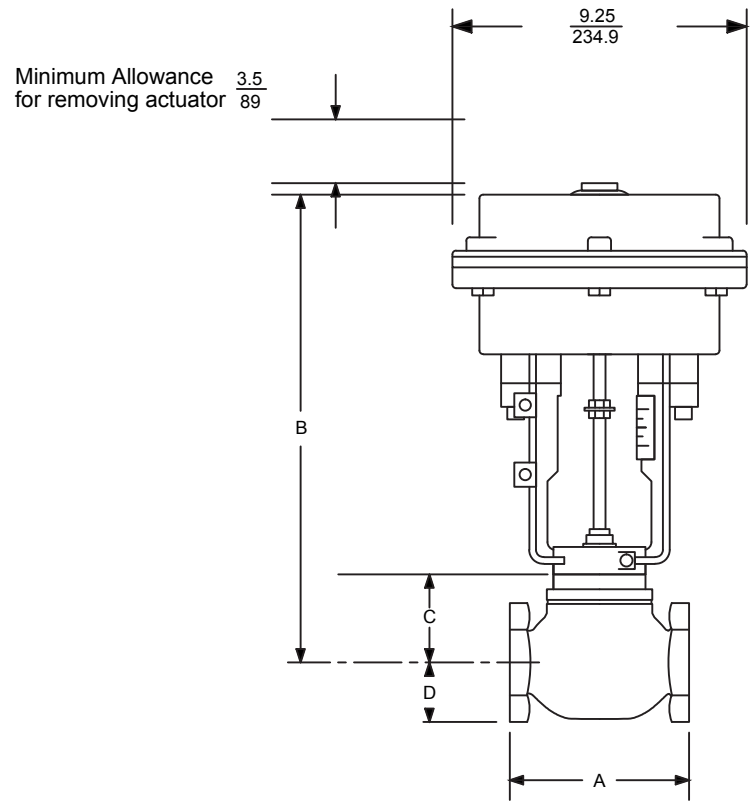


Figure 3

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

**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 will be repaired or replaced, only to the extent provided in the original manufacturer's warranty to Allagash International Group, LLC. 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](mailto: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.