

Lever-Lock Handlever Actuators for Fisher® 8560, A41, and A11 Valves

The lever-lock handlever actuator is used for reliable manual operation of NPS 3 through 8 Fisher 8560, A41, and NPS 3 and 4 A11 high-performance butterfly valves. Spring loading secures the handlever in the notched quadrant plate, allowing the valve disk to be locked in intermediate positions.

Features

- **Rugged Construction**—Lever-lock handlever actuator consists of ductile iron quadrant plate, handle, and grip.
- **Monitoring Ease**—Lever-lock handlever configuration offers positive on/off and intermediate locked positions for throttling control.
- **Tamper Resistant**—Handle can be provided with padlock for tamper-resistant open/closed position.
- **Accessory Mounting Available**—Limit switches can be mounted to the handlever actuator for remote valve position indication.
- **Adjustable Travel Stops**—Positioning device available for setting repeatable stops from 0 to 90 degrees rotation.



W4896
Lever-Lock Handlever Actuator Mounted on Valve

Installation

The lever-lock handlever actuator is normally mounted on a valve at the factory. However, the handlever actuator can be field-mounted. Dimensions are shown in figure 1 and table 2.



Specifications

<p>Lever-Lock handlever Actuator Sizes</p> <p>See table 1</p> <p>Valve Compatibility</p> <ul style="list-style-type: none"> ■ Accepts 8560 and A41 valve Double-D shafts from 12.7 to 25.4 mm (1/2 to 1 inches) ■ Accepts A11 valve square-end shafts from 10.3 to 15.9 mm (13/32 to 5/8 inches) <p>Maximum Torque Output</p> <p>See table 1</p>	<p>Handlever Length</p> <p>Maximum of 432 mm (17 inches). See figure 1 and table 2</p> <p>Construction Materials</p> <p>Handle, quadrant plate, and handle grip are all ductile iron</p> <p>Dimensions and Approximate Weights</p> <p>See figure 1 and table 2</p> <p>Options</p> <ul style="list-style-type: none"> ■ Adjustable travel stops ■ Limits Switches
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Table 1. Handlever Actuator Sizes for Fisher 8560, A41, and A11 Valves Sizes, and Maximum Allowable Torque for Handlever Actuators

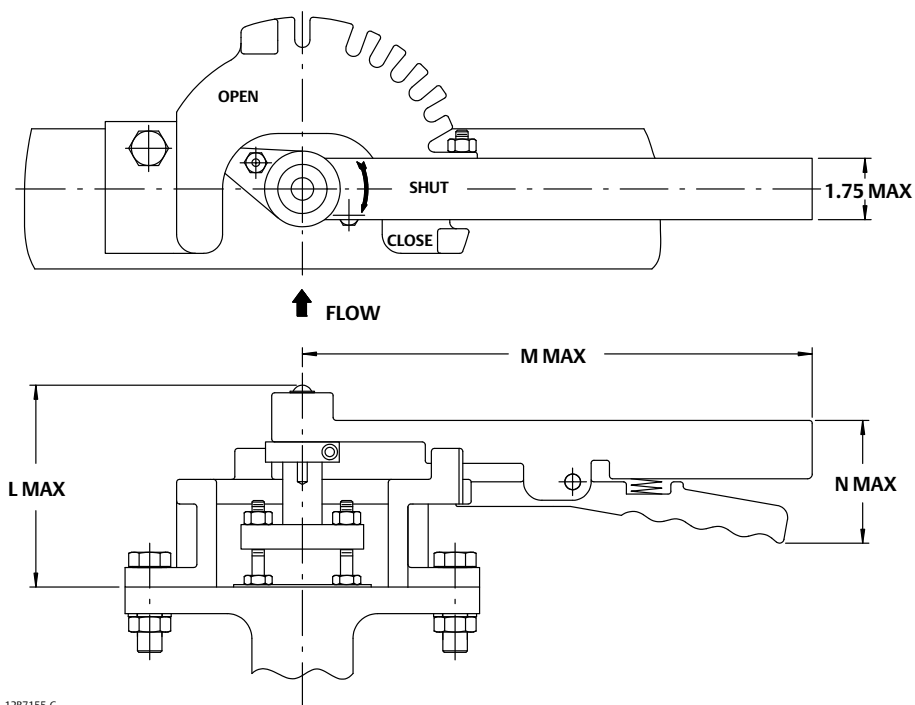
HANDLEVER ACTUATOR SIZE	VALVE SIZE, NPS	8560 AND A41 VALVES ⁽¹⁾		A11 VALVES ⁽²⁾
		CL150	CL300	CL600
		Maximum Allowable Torque, N•m		
I	3	58.2 ⁽³⁾	124.3	90.4
	4	124.3	---	---
II	4	---	163.9	163.9
	6	163.9	163.9	---
	6	163.9	---	---
HANDLEVER ACTUATOR SIZE	VALVE SIZE, NPS	Maximum Allowable Torque, Lbf•in		
I	3	515 ⁽³⁾	1100	800
	4	1100	---	---
II	4	---	1450	1450
	6	1450	1450	---
	6	1450	---	---

1. 8560 and A41 torque values are based on S17400 (17-4PH stainless steel) H1075 stem material.
 2. A11 torque values are based on S17400 (17-4PH stainless steel) H1025 stem material.
 3. Do not exceed this torque regardless of actuator size.

Table 2. Handlever Actuator Dimensions and Weights

VALVE SIZE, NPS	DIMENSION			HANDLEVER ACTUATOR WEIGHT
	L	M	N	
	mm			Kg
3	114	276	76	2.3
4	114	276	76	2.3
6	117	432	97	4.1
8	117	432	97	4.1
	Inches			Lbs
3	4.50	10.88	3.00	5
4	4.50	10.88	3.00	5
6	4.62	17.00	3.81	9
8	4.62	17.00 </td <td>3.81</td> <td>9</td>	3.81	9

Figure 1. Handlever Actuator Dimensions and Weights (also see table 2)



1287155-C

Ordering Information

When ordering, specify:

Application

1. Valve type number, size, and shaft diameter or shaft size with which the lever-lock handlever actuator will be used.
2. Valve disk rotation

Actuator

Refer to table 1 for maximum output torque and select the proper size of lever-lock handlever. For service conditions that require higher torque capabilities than those listed in table 1, use a manual gear actuator.

Valve

Refer to separate valve bulletins for ordering information.

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