

# Lever-Lock Handlever Actuators for Type A41 and A11 Valves

The lever-lock handlever actuator (see figure 1) is used for reliable manual operation of NPS 3 through 8 Type A41 and NPS 3 and 4 Type A11 high-performance butterfly valves. Spring loading secures the handlever in the notched quadrant plate, allowing the valve disc 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.

## Note

**Neither Emerson, Emerson Process Management, nor any of their affiliated entities assumes responsibility for the selection, use and maintenance of any product. Responsibility for the selection, use, and maintenance of any product remains with the purchaser and end-user.**



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Figure 1. 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 2 and table 2.



# Lever-Lock Handlever Actuator

## Specifications

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

HANDLEVER ACTUATOR SIZE	VALVE SIZE, NPS	TYPE A41 VALVES <sup>(1)</sup>		TYPE A11 VALVES <sup>(2)</sup>	
		CL150	CL300	CL600	
		Maximum Allowable Torque, N•m			
I	3	58.2 <sup>(3)</sup>	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			
		3	515 <sup>(3)</sup>	1100	800
		4	1100	---	---
II	4	---	1450	1450	
	6	1450	1450	---	
	6	1450	---	---	

1. Type A41 torque values are based on S17400 (17-4PH stainless steel) H1075 stem material.  
 2. Type 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	3.81	9

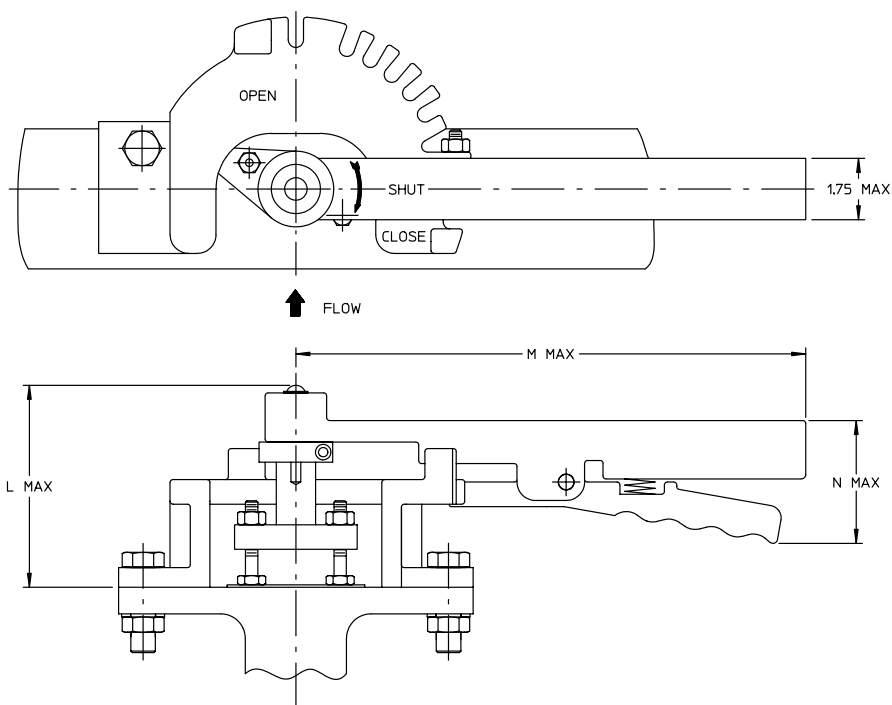


Figure 2. Handlever Actuator Dimensions and Weights (also see table 2)

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# Lever-Lock Handlever Actuator

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## 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 disc 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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### Emerson Process Management

Marshalltown, Iowa 50158 USA

Cernay 68700 France

Sao Paulo 05424 Brazil

Singapore 128461

[www.Fisher.com](http://www.Fisher.com)

