

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

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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

Lever-Lock handlever Actuator Sizes

See table 1

Valve Compatibility

- Accepts Type A41 valve Double-D shafts from 12.7 to 25.4 mm (1/2 to 1 inches)
- Accepts Type A11 valve square-end shafts from 10.3 to 15.9 mm (13/32 to 5/8 inches)

Maximum Torque Output

See table 1

Handlever Length

Maximum of 432 mm (17 inches). See figure 2 and table 2

Construction Materials

Handle, quadrant plate, and handle grip are all ductile iron

Dimensions and Approximate Weights

See figure 2 and table 2

Options

- Adjustable travel stops
- Limits Switches

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 ⁽¹⁾		TYPE 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			
		3	515 ⁽³⁾	1100	800
		4	1100	---	---
II	4	---	1450	1450	
	6	1450	1450	---	
	6	1450	---	---	

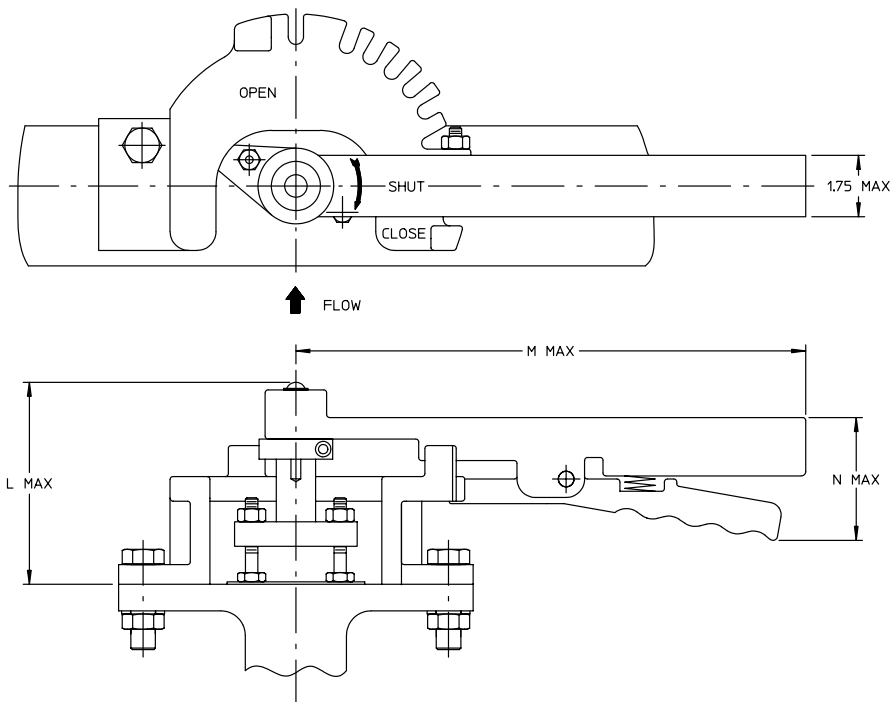
1. Type A41 torque values are based on S17400 (17-4PH stainless steel) H1075 stem material.

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



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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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