

# FLOWTREN 700-R REPAIRABLE ACTUATOR



Flowtrend® 700-R Series Actuator is a Flowtrend manufactured replacement for the Tri-Clover® 700 Series Actuator. Flowtrend's parts and products are not Alfa Laval® parts and products, and Alfa Laval® does not endorse, approve or warrant Flowtrend's parts or products, or their use.

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[WWW.FLOWTREN.COM](http://WWW.FLOWTREN.COM)

# FLOWTREN

SMARTER, FASTER FLUID HANDLING SOLUTIONS

## Flowtrend Replacement for the Tri-Clover® Non-Repairable Actuators

Pneumatic valve actuator featuring a unique design that offers a repairable option. Its heavy-duty construction and precise components ensure positive alignment under severe conditions.

### FEATURES

- Caged spring for safe service
- Corrosion resistant coated springs
- Long lasting stem bushings, coupled with PTFE split bushings
- Cylinder walls are 3mm thick to prevent damage to the glide path of the piston
- Exterior surfaces are 32Ra finish
- Intended to be interchangeable with Tri-Clover® non-repairable actuators
- Actuation is easily changed from normally open to normally closed
- Compatible with Tri-Clover® and Burkert® control and indication tops

### FUNCTIONS

- Pneumatic downward movement, spring return [NO]
- Pneumatic upward movement, spring return [NC]
- Pneumatic downward and upward movement [A/A]
- Actuator for intermediate position of valve plug as option

### AIR SUPPLY SPECIFICATIONS

- Max air pressure: 100psi
- Air filter regulator is recommended
- Heavy duty spring options are available to hold against higher product pressures. Heavy duty springs will require additional air supply pressure to overcome the spring

### Minimum Air Pressure Requirements

VALVE SIZE	STROKE (in)	VOLUME (cu in)
1"	.75	11.1
1.5" [3" short stroke]	1	14.80
1.5" [3" long stroke]	2	29.50
4" short stroke HP	2	50.00
4" long stroke HP	4	95.00
Type 15 diaphragm	1	18.00

## TECHNICAL DATA

### Type 10 (normally open)

Shut-off valve holding pressures

70 psi air pressure supplied to actuator

SHORT STROKE [STANDARD]*			
SIZE	ELAS-TOMER PLUG	TR PLUG	STROKE LENGTH
1"	105 psi	110 psi	.75"
1.5"	120 psi	110 psi	1"
2"	80 psi	70 psi	1"
2.5"	35 psi	20 psi	1"
3"	20 psi	15 psi	1"
4"	35 psi	20 psi	2"

LONG STROKE [STANDARD]*			
SIZE	ELAS-TOMER PLUG	TR PLUG	STROKE LENGTH
1"	N/A	N/A	N/A
1.5"	120 psi	110 psi	2"
2"	125 psi	120 psi	2"
2.5"	60 psi	50 psi	2"
3"	45 psi	40 psi	2"
4"	40 psi	20 psi	4"

### Type 10 (normally open)

Shut-off valve holding pressures

90 psi air pressure supplied to actuator

SHORT STROKE [STANDARD]*			
SIZE	ELAS-TOMER PLUG	TR PLUG	STROKE LENGTH
1"	105 psi	105 psi	.75"
1.5"	150 psi	150 psi	1"
2"	150 psi	150 psi	1"
2.5"	90 psi	80 psi	1"
3"	70 psi	60 psi	1"
4"	80 psi	75 psi	2"

LONG STROKE [STANDARD]*			
SIZE	ELAS-TOMER PLUG	TR PLUG	STROKE LENGTH
1"	N/A	N/A	N/A
1.5"	150 psi	150 psi	2"
2"	150 psi	150 psi	2"
2.5"	120 psi	110 psi	2"
3"	80 psi	70 psi	2"
4"	100 psi	80 psi	4"

### Type 20 (normally closed)

Shut-off valve holding pressures [standard\*\*]

SHORT STROKE [STANDARD]*			
SIZE	ELAS-TOMER PLUG	TR PLUG	STROKE LENGTH
1"	105 psi	110 psi	.75"
1.5"	140 psi	140 psi	1"
2"	90 psi	90 psi	1"
2.5"	55 psi	55 psi	1"
3"	40 psi	40 psi	1"
4"	65 psi	65 psi	2"

LONG STROKE [STANDARD]*			
SIZE	ELAS-TOMER PLUG	TR PLUG	STROKE LENGTH
1"	N/A	N/A	**
1.5"	140 psi	140 psi	2"
2"	90 psi	90 psi	2"
2.5"	60 psi	55 psi	2"
3"	32 psi	25 psi	2"
4"	45 psi	40 psi	4"

### Type 20 (normally closed)

Optional "HP" high pressure actuator (6" diameter actuator)

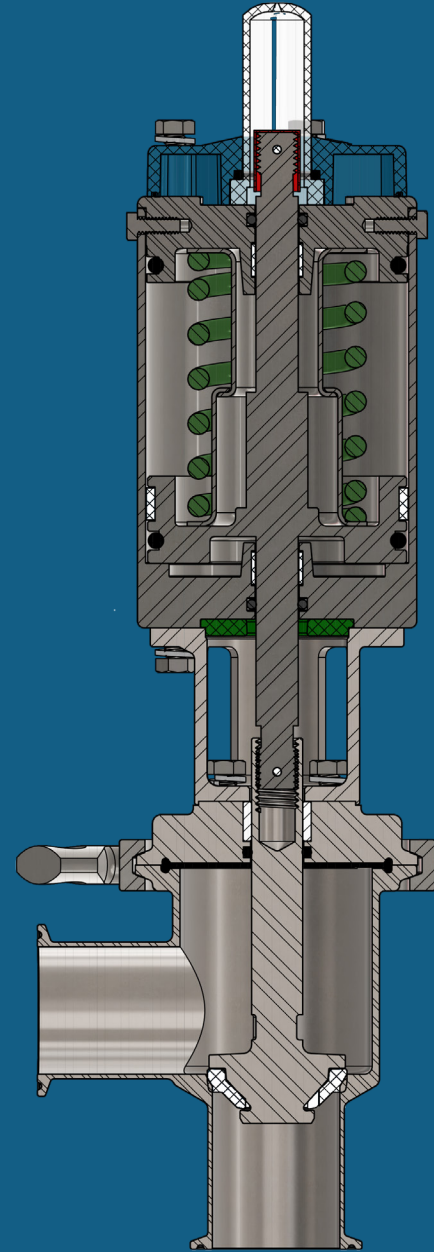
SHORT STROKE [STANDARD]*			
SIZE	ELAS-TOMER PLUG	TR PLUG	STROKE LENGTH
2.5"	110 psi	110 psi	1"
3"	95 psi	90 psi	1"

LONG STROKE [STANDARD]*			
SIZE	ELAS-TOMER PLUG	TR PLUG	STROKE LENGTH
2.5"	115 psi	110 psi	2"
3"	100 psi	95 psi	2"

\*4.5" diameter actuator is standard on 1"-3" valves. A 6" diameter actuator is supplied with a 4" valve. The 6" diameter actuator is available as a heavy-duty option for the 3" valve

\*\*On a standard actuator, 30 psi is required to offset the spring force when fully extended. 60 psi is required to fully compress the spring

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