BL Hydraulic linear single-acting actuator



Description:

The BL actuator converts hydraulic energy into linear motion with thrust proportional to the applied pressure. The BL has no external moving parts during operation and has a built-in device for maintaining pressure at temperature variations. The BL is designed with built-in crossover valve and is equipped with a direct visual position indicator. The BL actuator can be operated in any kind of environment and can easily be adapted to all well-known globe valves, and all models are prepared for direct built-on modular control functions.

Manufacture:

The BL actuators are manufactured in accordance with the guidelines for quality system stated in the American standard ANSI/ASQC Z-1.15.

After assembly, each actuator is flushed to NAS 1638/10 standard and plugged. Flushing to NAS 1648/7 standard can be performed on request.

Classification:

Meets the requirements from the major classification and approval authorities like:

American Bureau of Shipping Rina Russian Register of Shipping Bureau of Veritas Germanischer Lloyd U.S. Coast Guard

Det Norske Veritas Lloyd's Register of Shipping

Main data:

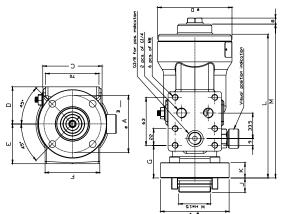
Temperature range:	-20°C to +80°C (-5°F to +180°F)
Housing:	GGG40 (Ductile Iron)
Piston:	GGG40 (Ductile Iron)
Output spindle:	Brass, other material on request
Indicator housing:	Brass MS 58
Intermediate flange:	St 52-3, (Carbon Steel)
Coating:	Primer: Min 40 micron, type Hempel EE 13140 Top coat: Min 25 micron alkyd, orange RAL 2002





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Main dimensions:



Dimensions:

Thrust	lbf	N
Weight	lb	Kg
Displacement	cu.in.	litres
Dimensions	inches	mm

	Thrust at	Thrust at				Dimensions Bottom View						Dimensions Front View													
Model	1550 psi (108 bar)	1950 psi (135 bar)	Stroke	Weight	Displace- ment	A	в	С	D	E	F	G	н	I	J	к	L	М	N	0	Р	R	s	т	U
BL 65	3057	3822	0.64	10	1	2.44	0.35	3.15	1.87	-	-	1.36	1.42	2.99	0.67	0.59	6.02	6.22	-	3.15	0.79	0.36	1.32	0.87	2.48
	13600	17000	16.25	4.5	0.021	62	9	80	47.5	-	-	34.5	36	76	17	15	153	158	-	80	20	9	33.5	22	63
BL 125	6295	7868	1.23	15	5	2.95	0.35	3.07	1.97	2.05	2.83	1.67	1.65	3.54	0.75	0.79	7.44	7.95	1.77	3.84	0.98	0.36	1.32	0.87	2.48
	28000	35000	31.25	7	0.082	75	9	78	50	52	72	42.5	42	90	19	20	189	202	45	97.5	25	9	33.5	22	63
BL 250	16636	20795	2.46	53	26	4.65	0.55	2.76	3.31	3.07	2.83	2.91	2.83	5.51	0.91	1.38	11.77	12.64	3.15	6.10	1.97	0.36	1.32	0.87	2.48
	74000	92500	62.5	24	0.428	118	14	70	84	78	72	74	72	140	23	35	299	321	80	155	50	9	33.5	22	63

Technical data:

End closing thrust (spring):

Viscosity of hydraulic oil:

Working Pressure:

Test pressure:

Burst test:

*Higher torques on request - For lower pressure supply consult factory.

Standard features:

The BL actuator for intermediate positions and fail set operation of globe valves:

- Unique and simple design with built-in crossover valve
- Easy installation on intermediate flange at globe valve
- Same unit for several valve sizes
- Will operate in sea air as well as sea water
- No external moving parts during operation
- Prepared for direct built-on modular control functions or LPU
- Direct visual position indicationBuilt-in device for maintaining pressure
- at temperature variations
- Hydraullic on/off position indication
- Electrical on/off or continuous position indication IP 68
- Connection block with fiter
- Pilot operated non-return valve
- Release valve

- Throttle valve
- Quick connection for emergency

135 bar (2000 psi)

min. 675 bar

15 to 200 cSt

17000-92500 N

1.5 x working pressure

- operation with portable hand pump - LPU mounting
- Epoxy coating
- On request special features as:
- Flushing valve built into the connection block making it possible to flush the system without disconnection of pipes

Note: Not Certified dimensional drawings. Such drawings are available on request. Contact factory with correct model designation and serial number. Important: Due to Emerson's continuing commitment to engineered product advancement, data presented herin is subject to change.

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