

FLUMT Series Electric Actuator

— Multi-Turn Design

Description



- FLUMT series actuators, are driving equipment for valves to achieve opening, closing, adjustment and control. This series of actuators have the characteristics of full-featured, reliable performance, advanced control system, small size, light weight convenient use and maintenance.
- FLUMT series actuators are suitable for valves with linear movements, such as gate valves, globe valves, diaphragm valves plunger valves, shut-off valves, water gates, etc, which can be used for bright stem valves and dark stem valves. The valve can be controlled remotely, collectively and automatically. It is widely used in electric power, metallurgy, petroleum, chemical, pharmaceutical, sewage treatment, agricultural irrigation and other industries.
- Top wheel arrangement makes the actuators easy to operate in less turns from all angles

Product Categories



- Divided by protection type: Outdoor and explosion-proof;
- Divided by connection method: Torque type and thrust type;
- Types: On Off type 8 intelligent modulators type with integral starter



Testing For All Actuators

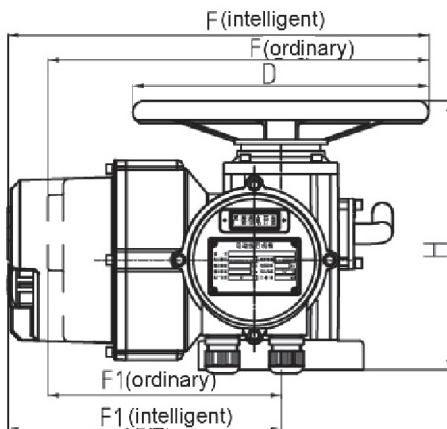


All actuators supplied by FLUTEC are individually tested, Testing is carried out to check the leakage in both internal and external, The angle of rotation and Torque values. All bodies are stamped with year, month of production, size and serial number.

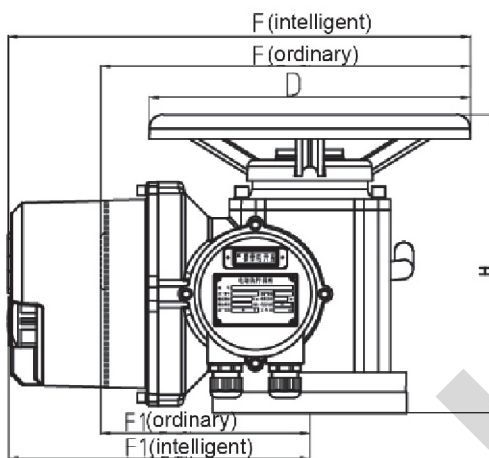
Main Specifications

Input Signal	4mA~20mA; Passive Contact	
Power Supply	Conventional	Three Phase: AC380V (50Hz)
	Special	Three Phase: AC660V, AV440V, AV415V (50Hz, 60Hz)
		Simplex:AC220V, AC110V (50Hz, 60Hz)
		Direct:DC12V, DC24V, DC48V
Basic Error Limit	≤1%	
Protection Class	IP65, IP68.....	
Explosion-proof Grade	Optional ExdII BT4, ExdII CT4;	
Ambient Temperature	-30°C~+70°C (Optional:-40°C~+100°C)	
Enviroment Humidity	≤95% (25°C)	
Two types of actuators Modulating type and On/Off type, Weatherproof Yes, but no Explosion proof (on request)		
Modulating Type: Intelligent and non intrusive, On/Off Type: Basic, non intelligent		
Modulating Type: DOL Starter Panel integrated in the actuator. On/Off Type: not integrated in the actuator, external setup needed		
Inbuilt Overload torque sensor: Monitors applied torque in real time to detect and indicate any overload conditions		
Valve Open/Close Sensor: Display window indicates the precise percentage of valve opening and closing position during operation		
Internal Control Power supply: 24VDC, Valve Open/Close feedback irrespective of availability of mains power supply		
Thermal protection sensor: Yes, overheating sensor is provided		
Motor working system: Standard long-term motor, F-class insulation, including motor winding thermostat, Motor rating: S2-15		
Paint and finish: RAL 7011, Cable Gland entries: G3/4		

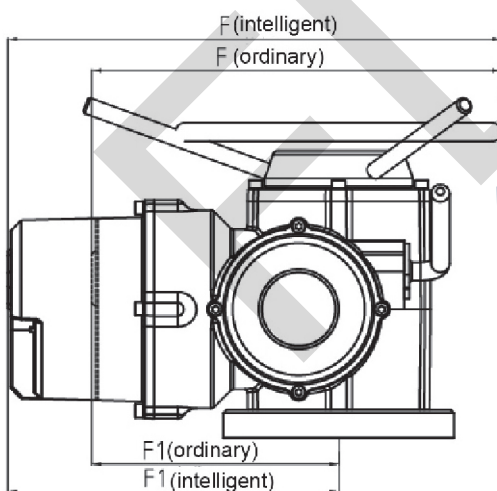
Dimensions



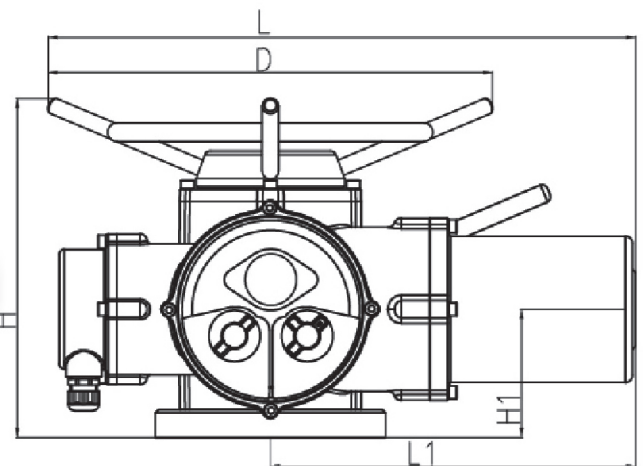
FLUMT50/FLUMT100/FLUMT150



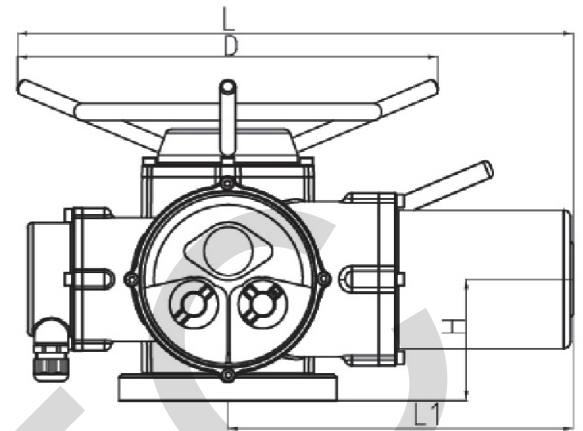
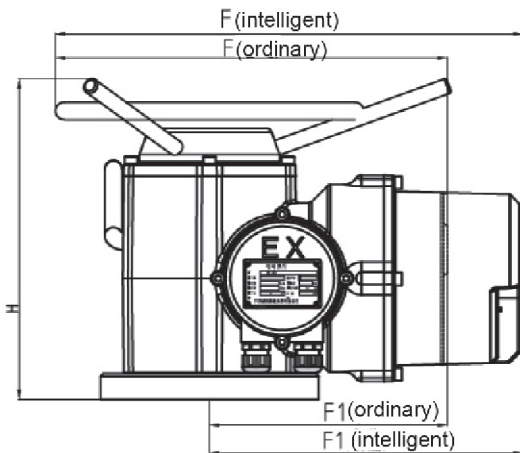
FLUMT200/FLUMT300



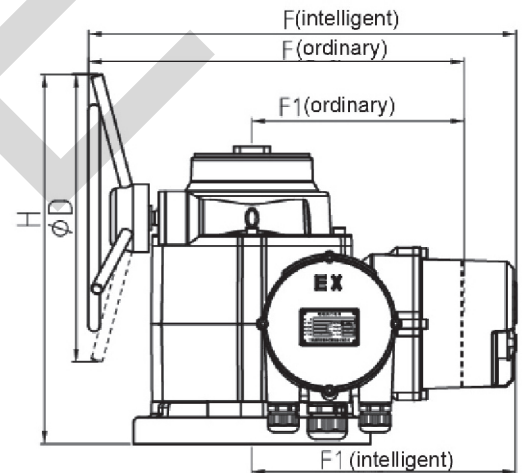
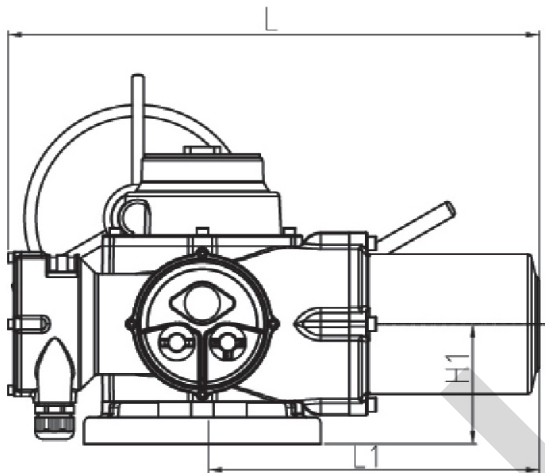
FLUMT450/FLUMT600



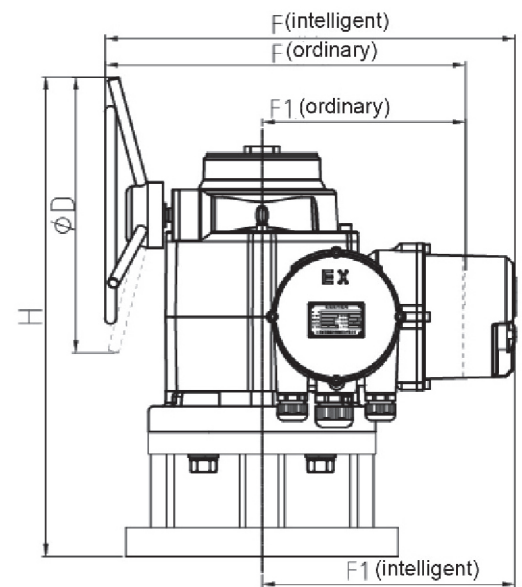
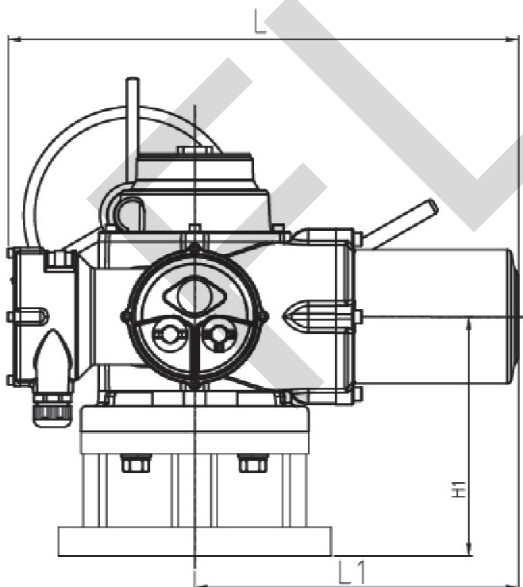
Dimensions



FLUMT900/FLUMT1200



FLUMT1800/FLUMT2500

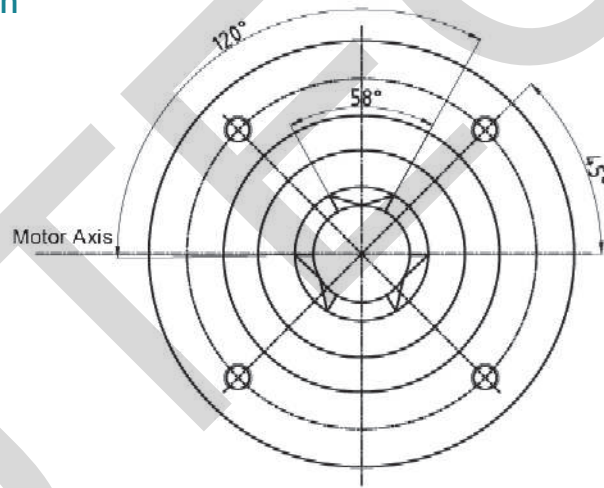


FLUMT3500/FLUMT5000/FLUMT7000/FLUMT10000

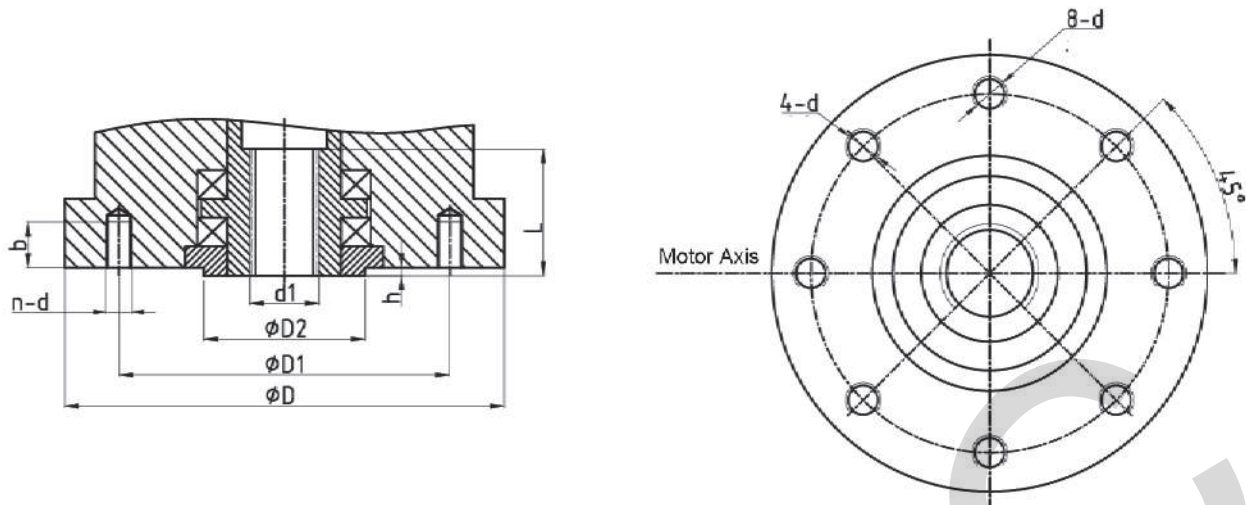
Model	H	H1	F		F1		D	(L)	L	(L1)	L1
			Ordinary	Intelligent	Ordinary	Intelligent					
FLUMT50/FLUMT100/FLUMT150	236	96	334	370	204	240	260	392	412	235	255
FLUMT200/FLUMT300	285	115	372	442	218	288	300	449	499	265	315
FLUMT450/FLUMT600	335	125	510	570	252	322	495	/	563	/	357
FLUMT900/FLUMT1200	352	141	517	587	252	322	508	577	637	360	420
FLUMT1800/FLUMT2500	515	167	524	596	296	368	400	/	748	/	470
FLUMT3500/FLUMT5000	684	348	524	596	296	368	400	/	748	/	470
FLUMT7000FLUMT10000	747	411	524	596	296	368	400	/	748	/	470

Technical drawing of a shaft-hub assembly showing dimensions for fit calculation. The drawing includes the following dimensions:

- ϕd_1 : Shaft diameter at the top of the hub.
- ϕd_2 : Shaft diameter at the bottom of the hub.
- ϕD_2 : Hub bore diameter at the bottom.
- ϕD_1 : Hub bore diameter at the top.
- ϕD : Total shaft diameter.
- b : Hub width.
- $n-d$: Distance from the left end of the shaft to the start of the hub bore.
- h : Hub thickness at the top.
- h_1 : Hub thickness at the bottom.
- h_2 : Hub thickness at the top.



Actuator Model	Flanged Model	Size detail of actuator output interface (Torque type JB2920)										
		D	D1	D2	d1	d2	n-d	b	Screw hole direction	h	h1	h2
FLUMT50 FLUMT100 FLUMT150	2#	145	120	90	33	45	4-M10	20	45°	8	2	5
	2#(I)	115	95	75	26	39	4-M8	20	45°	6	2	5
FLUMT200 FLUMT300	3#	185	160	125	42	58	4-M12	20	45°	10	2	5
	3#(I)	145	120	90	31.5	45	4-M10	20	45°	8	2	5
FLUMT450 FLUMT600	4#	225	195	150	52	68	4-M16	27	45°	12	2	5
FLUMT900 FLUMT1200	5#	275	235	180	62	78	4-M20	30	45°	14	2	5
	5#(I)	230	195	150	52	72	4-M16	27	45°	12	2	5
FLUMT1800 FLUMT2500	7#	330	285	220	72	98	4-M24	35	45°	16	3	6
FLUMT3500 FLUMT5000	8#	380	340	280	83	118	8-φ 22	40	22.5°	20	3	7
FLUMT7000 FLUMT10000	9#	430	380	300	93	128	8-φ 26	42	22.5°	22	3.5	7



FLUMT Series actuator interface dimensions (Thrust Type)

Actuator Model	Flanged Model	Size detail of actuator output interface (Thrust type GB12222)								
		D	D1	D2	d1 Trapezoid thread (max)	n-d	b	Screw hole direction	h	L
FLUMT50 FLUMT100 FLUMT150	F10	125	102	70	Tr28	4-M10	16	45°	3	40
FLUMT200 FLUMT300	F14	175	140	100	Tr36	4-M16	25	45°	4	55
FLUMT450 FLUMT600	F16	210	165	130	Tr44	4-M20	35	45°	5	70
FLUMT900 FLUMT1200	F25	300	254	200	Tr60	8-M16	30	45°	5	90
FLUMT1800 FLUMT2500	F30	350	298	230	Tr70	8-M20	35	22.5°	5	110
FLUMT3500 FLUMT5000	F35	415	356	260	Tr80	8-M30	45	22.5°	6	150

Technical Parameters

Model	Output Torque (N.m)	Output Speed (r/min)	Manual Speed Ratio (Handwheel/Output)	Motor Power (K)		Rated Current (A)		Reference Weight (kg)
				380V	220V	380V	220V	
FLUMT50	50	18/24	1:1	0.18	0.18	0.6	0.95	15.2
FLUMT100	100	18/24	1:1	0.25	0.28	0.85	1.2	15.8
FLUMT150	150	18/24	1:1	0.37	0.37	1.05	1.7	16.2
FLUMT200	200	18/24	1:1	0.55	0.55	1.3	2.5	24.2
	200	36/48	1:1	0.75	0.75	1.7	/	25.8
FLUMT300	300	18/24	1:1	0.75	0.75	1.7	/	25.8
	300	36/48	1:1	0.85	0.85	1.85	/	25.8
FLUMT450	450	18/24	1:1	0.85	0.85	1.85	/	63.2
	450	36/48	1:1	1.5	1.5	3.2	/	63.2
FLUMT600	600	18/24	1:1	1.5	1.5	3.2	/	65.2
	600	36/48	1:1	2.2	2.5	4.5	/	67.5
FLUMT900	900	18/24	1:1	2.2	/	4.5	/	68.5
	900	36/48	1:1	3.0	/	6.3	/	69.8
FLUMT1200	1200	18/24	1:1	3.0	/	6.3	/	69.8
	1200	36/48	1:21	4.0	/	8.5	/	73.5
FLUMT1800	1800	18/24	1:21	4.0	/	8.5	/	120
FLUMT2500	2500	18/24	1:21	5.0	/	10.5	/	125
FLUMT3500/FLUMT5000	3500/5000	8	1:60	5.0	/	10.5	/	200
FLUMT7000/FLUMT10000	7000/10000	4.5	1:107	5.5	/	11	/	260