

Technical data sheet

F7150-300SHP





Type overview

Туре	DN
F7150-300SHP	150

Technical data

Functional data	Valve size [mm]	6" [150]		
	Fluid	chilled or hot water, up to 60% glycol		
	Fluid Temp Range (water)	-22400°F [-30204°C]		
	Body Pressure Rating	ANSI Class 300		
	Flow characteristic	modified linear, unidirectional		
	Servicing	maintenance-free		
	Flow Pattern	3-way Mixing/Diverting		
	Leakage rate	0%		
	Controllable flow range	quarter turn, mechanically limited		
	Cv	1103		
	Maximum Velocity	32 FPS		
	Lug threads	3/4-10 UNC		
Materials	Valve body	Carbon steel full lug (ASME B16.34)		
	Stem	17-4 PH stainless steel		
	Seat	RPTFE		
	Pipe connection	ASME/ANSI class 300 flange		
	Bearing	glass backed PTFE		
	Disc	316 stainless steel		
Suitable actuators	Non-Spring	SY4		

Safety notes

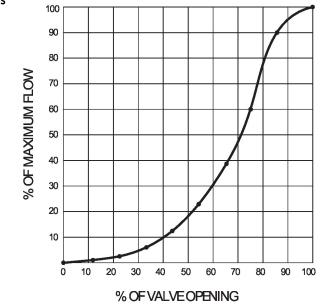


• WARNING: This product can expose you to lead which is known to the State of California to cause cancer and reproductive harm. For more information go to www.p65warnings.ca.gov



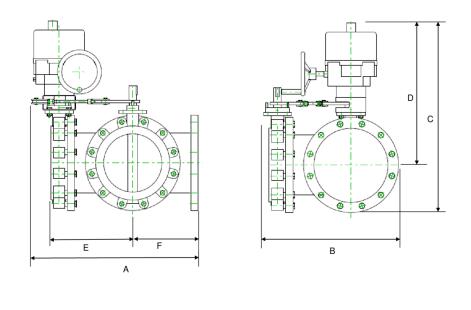


Flow/Mounting details



Dimensions

Туре	DN	Weight
F7150-300SHP	150	242.5 lb [110 kg]



Α	В	С	D	E	F	Number of Bolt Holes
22.5" [571]	17.0" [433]	28.3" [718]	22.0" [559]	10.8" [274]	8.5" [216]	12



On/Off, Floating point, Non fail-safe, 120 V





Technical data

Electrical data	Nominal voltage	AC 120 V		
	Nominal voltage frequency	50/60 Hz		
	Nominal voltage range	AC 96132 V		
	 Transformer sizing	253 VA		
	Current consumption	2.1 A		
	Auxiliary switch	2x SPDT, 1 mA5 A (3 A inductive), DC 5 VAC 250 V, 1 x 3° / 1 x 87°		
	Switching capacity auxiliary switch	1 mA5 A (3 A inductive), DC 5 VAC 250 V		
	Electrical Connection	Terminal blocks		
	Overload Protection	thermally protected 135°C cut-out		
	Internal Humidty Control	resistive heating element		
Functional data	Torque motor	400 Nm		
	Direction of motion motor	selectable with switch 0/1		
	Manual override	hand wheel		
	Angle of rotation	90°		
	Running Time (Motor)	19 s		
	Duty cycle value	30%		
	Noise level, motor	45 dB(A)		
	Position indication	top mounted domed indicator		
Safety data	Degree of protection IEC/EN	IP66/67		
	Degree of protection NEMA/UL	NEMA 4X		
	Enclosure	UL Enclosure Type 4X		
	Agency Listing	ISO, CE, cCSAus		
	Quality Standard	ISO 9001		
	Ambient humidity	Max. 100% RH		
	Ambient temperature	-22149°F [-3065°C]		
	Storage temperature	-40176°F [-4080°C]		
	Servicing	maintenance-free		
Weight	Weight	160 lb [72 kg]		
Materials	Housing material	die cast aluminium		
	Gear train	high alloy steel gear sets, self locking		



Technical data sheet

SY4-110

Product features			
	Application	SY Series actuators are fractional horsepower devices, and utilize full-wa Observe wire sizing and transformer sizing requirements. Proportional n connected to Belimo direct coupled (AF, AM, GMetc) actuator power su half-wave device. You MUST use a separate, dedicated transformer or po the SY actuator. Please do not connect other automation equipment to th source. You MUST use four wires (plus a ground) to control a proportion (See SY Wiring Section).	nodels CANNOT be opplies or any type of ower supply to power he dedicated SY supply
Accessories			
	Electrical accessories	Description	Туре
		Local electric disconnect for SY412 series actuator, AC 120 V, on/off Battery backup system for SY46 series actuator, AC 120 V, on/off Battery backup system for SY46 series actuator, AC 120 V, MFT Battery backup system for SY45 series actuator, AC 24 V, on/off Battery backup system for SY45 series actuator, AC 24 V, MFT	HOA-120V EXT-NSV-B03-120 EXT-NSV-B04-120 EXT-NSV-B13-24 EXT-NSV-B14-24
Electrical installation	on		
	A A	 Do not change sensitivity or dip switch setting with power applied. Power supply Common/Neutral and Control Signal "-"wiring to a common Terminals 4 and 6 need to be wired separately. Isolation relays must be used in parallel connection of multiple actuator control signal inputs. The relays should be DPDT. Isolation relays are required in parallel applications. The reason parallel isolation relays is that the motor uses two sets of windings, one for each energized to turn the actuator in a specific direction a voltage is generated the magnetic field created from the first. It's called back EMF. This is not actuator because the voltage generated in the second winding isn't community is connected to on the other actuators in the system, the actuation in both directions at once. The EMF voltage is always less than the supplices from the other reduces the torque output and causes overheating. Warning! Live electrical components! During installation, testing, servicing and troubleshooting of this product to work with live electrical components. Have a qualified licensed electric who has been properly trained in handling live electrical components period. 	s using a common applications need direction. When one is ted in the other due to an issue with one nected to anything so age energizes the ators are tying to turn y voltage due to the anded direction, the et, it may be necessary cian or other individua erform these tasks.



SY4-110

Electrical installation

Wiring diagrams AC/DC 110/120 or 220/230V

