Resilient Seat, 304 Stainless Steel Disc

Butterfly Valve with Lug types

- Disc 304 stainless steel
- Bubble tight shut-off
- Resilient seat
- Valve face-to-face dimensions comply with API 609 & MSS-SP-67
- Completely assembled and tested, ready for installation





Type overview	
Туре	DN
F7150HD	150

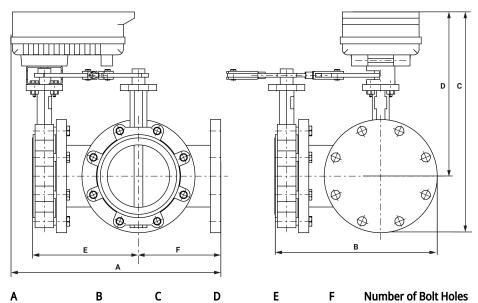
ype			DN
7150HD			150
echnical data			
Functi	ional data	Valve size [mm]	6" [150]
		Fluid	chilled or hot water, up to 60% glycol
		Fluid Temp Range (water)	-22250°F [-30120°C]
	·	Body Pressure Rating	ANSI Class Consistent with 125, 232 psi CWP
		Close-off pressure Δps	200 psi
	Ī	Flow characteristic	modified linear
		Servicing	maintenance-free
		Flow Pattern	3-way Mixing/Diverting
		Leakage rate	0%
		Controllable flow range	90° rotation
		Cv	1579
	·	Maximum Velocity	12 FPS
		Lug threads	3/4-10 UNC
	Materials	Valve body	Ductile cast iron ASTM A536
	Ī	Body finish	epoxy powder coating (blue RAL 5002)
		Stem	416 stainless steel
		Seat	EPDM
	-	Pipe connection	for use with ANSI class 125/150 flanges
		Bearing	RPTFE
		Disc	304 stainless steel
	-	Gear operator materials	Gears - hardened steel

Stem	416 stainless steel
Seat	EPDM
Pipe connection	for use with ANSI class 125/150 flanges
Bearing	RPTFE
Disc	304 stainless steel
Gear operator materials	Gears - hardened steel
Non-Spring	PRB(X)
Electrical fail-safe	PKRB(X)

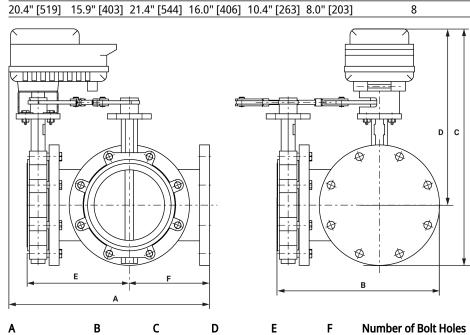
Dimensions			
Туре	DN	Weight	
F7150HD	150	140 lb [62 ka]	

Suitable actuators





Valve with PR Actuator



Valve with PK Actuator



Modulating, Non Fail-Safe, 24...240 V, NEMA 4X with BACnet

Technical data sheet









Technical data

Electrical da	ata
---------------	-----

Nominal voltage	AC 24240 V / DC 24125 V
Nominal voltage frequency	50/60 Hz
Nominal voltage range	AC 19.2264 V / DC 19.2137.5 V
Power consumption in operation	20 W
Power consumption in rest position	6 W
Transformer sizing	with 24 V 20 VA / with 240 V 52 VA
Auxiliary switch	2 x SPDT, 1 mA3 A (0.5 A inductive), DC 5 VAC 250 V (II, reinforced insulation), 1 x 10° / 1 x 090° (default setting 85°)
Switching capacity auxiliary switch	1 mA3 A (0.5 A inductive), DC 5 VAC 250 V (II, reinforced insulation)
Electrical Connection	Terminal blocks, (PE) Ground-Screw
Overload Protection	electronic thoughout 090° rotation

Data bus communication

Communicative control	BACnet MS/TP
	Modbus RTU
	MP-Bus

Functional data

Torque motor	160 Nm
Operating range Y	210 V
Operating range Y note	420 mA
Input Impedance	100 k Ω for 210 V (0.1 mA), 500 Ω for 420 mA, 1500 Ω for On/Off
Operating range Y variable	Start point 0.530 V End point 2.532 V
Operating modes optional	variable (VDC, on/off, floating point)
Position feedback U	210 V
Position feedback U note	Max. 0.5 mA
Position feedback U variable	VDC variable
Direction of motion motor	reversible with app
Manual override	7 mm hex crank, supplied
Angle of rotation	90°
Running Time (Motor)	35 s / 90°
Running time motor variable	30120 s
Noise level, motor	68 dB(A)
Position indication	integral pointer
Power source UL	Class 2 Supply

Safety data

Class 2 Supply	
IP66/67	
NEMA 4X	
UL Enclosure Type 4X	
	IP66/67 NEMA 4X



	recillical data sileet	PRAUF-WIFT-1
Safety data	Agency Listing	cULus acc. to UL60730-1A/-2-14, CAN/CSA E60730-1:02, CE acc. to 2014/30/EU and 2014/35/EU
	Quality Standard	ISO 9001
	Ambient humidity	Max. 100% RH
	Ambient temperature	-22122°F [-3050°C]
	Storage temperature	-40176°F [-4080°C]
	Servicing	maintenance-free
Weight	Weight	13 lb [5.9 kg]
Materials	Housing material	Die cast aluminium and plastic casing

Product features

Application

PR Series valve actuators are designed with an integrated linkage and visual position indicators. For outdoor applications, the installed valve must be mounted with the actuator at or above horizontal. For indoor applications the actuator can be in any location including directly under the valve.

Operation

Gateways

Description

The PR series actuator provides 90° of rotation and a visual indicator shows the position of the valve. The PR Series actuator uses a low power consumption brushless DC motor and is electronically protected against overload. A universal power supply is furnished to connect supply voltage in the range of AC 24...240 V and DC 24...125 V. Included is a smart heater with thermostat to eliminate condensation. Two auxiliary switches are provided; one set at 10° open and the other is field adjustable. Running time is field adjustable from 30...120 seconds by using the Near Field Communication (NFC) app and a smart phone.

†Use 60°C/75°C copper wire size range 12...28 AWG, stranded or solid. Use flexible metal conduit. Push the listed conduit fitting device over the actuator's cable to butt against the enclosure. Screw in conduit connector. Jacket the actuators input wiring with listed flexible conduit. Properly terminate the conduit in a suitable junction box. Rated impulse Voltage 4000 V. Type of action 1. Control pollution degree 3.

Accessories

Cateriays	2 con paren	.,,,,,
	Gateway MP to BACnet MS/TP	UK24BAC
	Gateway MP to Modbus RTU	UK24MOD
	Gateway MP to LonWorks	UK24LON
Electrical accessories	Description	Туре
	Service Tool, with ZIP-USB function, for programmable and	ZTH US
	communicative Belimo actuators, VAV controller and HVAC performance	
	devices	
Mechanical accessories	Description	Туре
	Hand crank for PR, PKR, PM	ZG-HND PR
Tools	Description	Туре
	Connection cable 10 ft [3 m], A: RJ11 6/4 ZTH EU, B: 3-pin Weidmüller and supply connection	ZK4-GEN
	Service Tool, with ZIP-USB function, for programmable and communicative Belimo actuators, VAV controller and HVAC performance devices	ZTH US

Type



Technical data sheet PRXUP-MFT-T

01DT-5BR

01DT-5ER 01DT-5ET

Sensors	Description	Туре
	Duct/Immersion sensor Temperature 6" [150 mm] x 0.24" [6 mm] Pt1000	01DT-5BN
	Duct/Immersion sensor Temperature 2" [50 mm] x 0.24" [6 mm] Pt1000	01DT-5BH
	Duct/Immersion sensor Temperature 4" [100 mm] x 0.24" [6 mm] Pt1000	01DT-5BL
	Duct/Immersion sensor Temperature 8" [200 mm] x 0.24" [6 mm] Pt1000	01DT-5BP
	Duct/Immersion sensor Temperature 18" [450 mm] x 0.24" [6 mm] Pt1000	01DT-5BT
		01DT-5EH
		01DT-5EL
		01DT-5EN
		01DT-5EP

Electrical installation

Meets cULus requirements without the need of an electrical ground connection.

(UP) Universal Power Supply (UP) models can be supplied with 24 V up to 240 V.

Duct/Immersion sensor Temperature 12" [300 mm] x 0.24" [6 mm]

Disconnect power.

Pt1000

A Provide overload protection and disconnect as required.

Two built-in auxiliary switches (2x SPDT), for end position indication, interlock control, fan startup, etc.

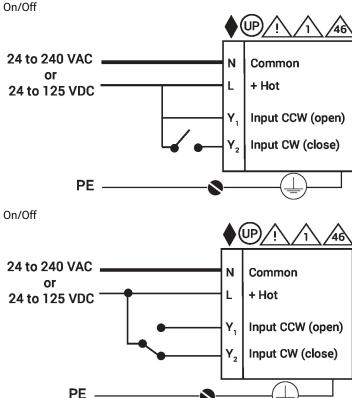
6 Only connect common to negative (-) leg of control circuits.

🔼 Actuators may be controlled in parallel. Current draw and input impedance must be observed.

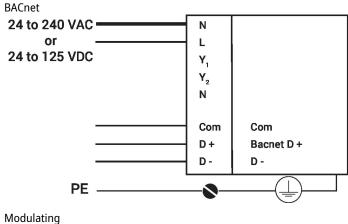
Warning! Live electrical components!

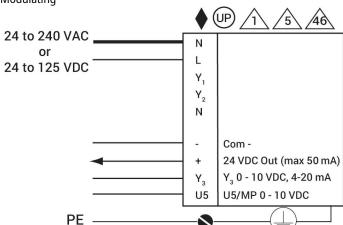
During installation, testing, servicing and troubleshooting of this product, it may be necessary to work with live electrical components. Have a qualified licensed electrician or other individual who has been properly trained in handling live electrical components perform these tasks. Failure to follow all electrical safety precautions when exposed to live electrical components could result in death or serious injury.

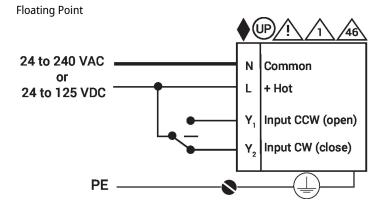




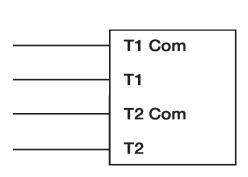


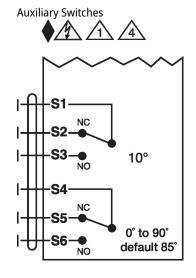






Temperature Sensors







Dimensions

