# F7125HD, 5", 3-Way Butterfly Valve Resilient Seat, 304 Stainless Steel Disc







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Technical Data			
Service	chilled, hot water, up to 60% glycol		
Flow Characteristic	modified linear		
Controllable Flow Range	90° rotation		
Valve Size	5 " [125]		
End Fitting	for use with ANSI class 125/150 flanges		
Body	ductile iron ASTM A536		
Body Finish	epoxy powder coated		
Seat	EPDM standard		
Shaft	416 stainless steel		
Bushings	RPTFE		
Disc	304 stainless steel		
Body Pressure Rating	200 psi at -20°F to +150°F		
ANSI Class	125		
Number of Bolt Holes	8		
Lug Threads	3/4-10 UNC		
Media Temperature Range (Water)	-22°F to 250°F [-30°C to 120°C]		
Close-Off Pressure	200 psi		
Rangeability	10:1 (for 30° to 70° range)		
Maximum Velocity	12 FPS		
Cv	1022		
Weight	112.4 lb [51 kg]		
Leakage	0%		
Servicing	maintenance free		

## **Application**

Valve is designed for use in ANSI flanged piping systems to meet the needs of bi-directional high flow HVAC hydronic applications with 0% leakage. Typical applications include cooling tower bypass, primary flow change-over systems, and large air handler coil control. Valve face-to-face dimensions comply with API 609 & MSS-SP-67, Completely assembled and tested, Ready for installation.

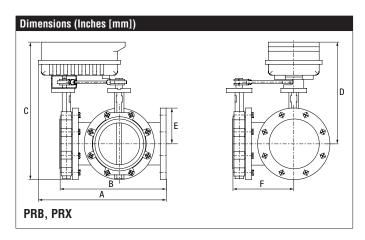
#### **Jobsite Note**

Valve assembly should be stored in a weather protected area prior to installation. Reference the butterfly valve installation instruction for additional

Flow/Cv								
Cv 10°	Cv 20°	Cv 30°	Cv 40°	Cv 50°	Cv 60°	Cv 70°	Cv 80°	Cv 90°
0.5	29	61	133	237	392	620	930	1022

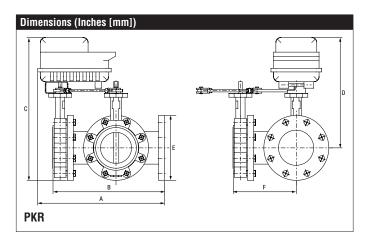
**Suitable Actuators** 

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Non		Non-Spring	Electronic Fail-Safe		
	F7125HD	PRB(X)	PKRB(X)		



A	В	C	D	E	F
19.55"	17.2"	19.74"	14.74"	5" [127]	9.7" [246.4]
[496.6]	[436.9]	[501.4]	[374.4]		





Α	В	С	D	Е	F
19.55"	17.2"	21" [533]	17.00"	10" [254]	9.7" [246.4]
[496.6]	[436 9]		[432]		

# PRXUP-3-T

## On/Off, Floating Point, Non Fail-Safe, 24-240 V, NEMA 4X





Technical Data	
Power Supply	24240 VAC, -20% / +10%, 50/60 Hz,
	24125 VDC, -20% / +10%
Power consumption in operation	20 W
Power consumption in rest	6 W
position	
Transformer sizing	20 VA @ 24 VAC/DC (class 2 power source), 23 VA @ 120 VAC/DC, 52 VA @ 230 VAC
Electrical Connection	terminal blocks
Overload Protection	electronic thoughout 0° to 90° rotation
Input Impedance	1000 Ω
Angle of rotation	90°
direction of rotation motor	reversible with app
Position indication	top mounted domed indicator
Manual override	7 mm hex crank, supplied
Running time motor	default 35 sec, variable 30120 sec
Ambient humidity	5 to 95% RH non condensing (EN 60730-1)
Ambient temperature	-22122 °F [-3050 °C]
Degree of Protection	IP66/67, NEMA 4X, UL Enclosure Type 4X
Housing material	aluminum die cast polycarbonate cover
Agency Listing	cULus acc. to UL60730-1A/-2-14, CAN/CSA
	E60730-1:02, CE acc. to 2004/108/EC and
Ni cha la alla anti-	2006/95/EC
Noise level, motor	68 dB (A)
Maintenance	maintenance free
Quality Standard	ISO 9001
Weight	13 lb [5.8 kg]
Auxiliary switch	2 x SPDT, 3A resistive (0.5A inductive) @
	250 VAC, one set at 10°, one adjustable 0°
	to 90°

#### **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

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 24-240 VAC and 24-125 VDC. 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 4000V. Type of action 1. Control pollution degree 3.



# PRXUP-3-T On/Off, Floating Point, Non Fail-Safe, 24-240 V, NEMA 4X

### **Wiring Diagrams**



Meets cULus requirements without the need of an electrical ground



Universal Power Supply (UP) models can be supplied with 24 VAC up to 240 VAC, or 24 VDC up to 125 VDC.



Disconnect power.



Two built-in auxiliary switches (2x SPDT), for end position indication,



interlock control, fan startup, etc.

Actuators may be controlled in parallel. Current draw and input

Provide overload protection and disconnect as required.



## 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.

