

Technical data sheet

F6125HD





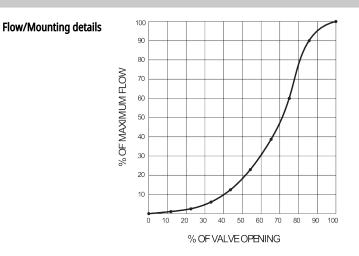


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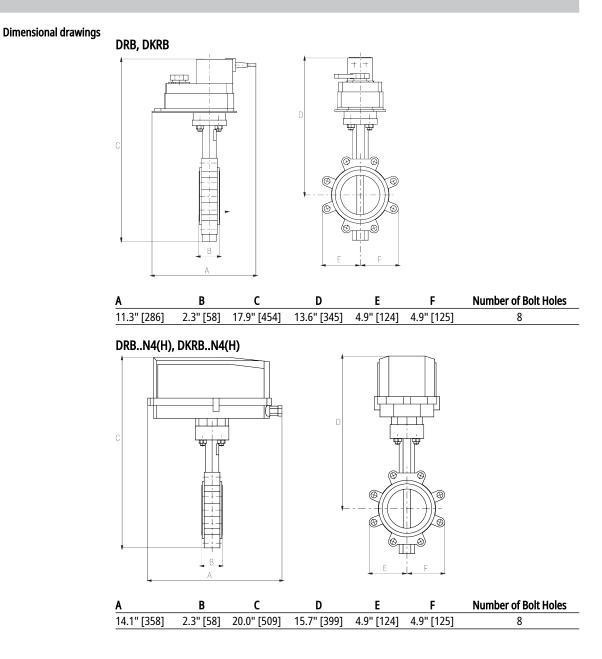
Functional data	Valve Size	5" [125]
	Fluid	chilled or hot water, up to 60% glycol
	Fluid Temp Range (water)	-22250°F [-30120°C]
	Body Pressure Rating	ANSI Class Consistent with 125, 232 psi CWP
	Close-off pressure ∆ps	200 psi
	Servicing	maintenance-free
	Rangeability Sv	10:1 (for 3070° range)
	Flow Pattern	2-way
	Leakage rate	0%
	Controllable flow range	90° rotation
	Cv	1022
	ANSI Class	Consistent with 125
	Body pressure rating note	232 psi CWP
	Maximum Velocity	12 FPS
	Lug threads	3/4-10 UNC
Materials	Valve body	Ductile cast iron ASTM A536
	Body finish	epoxy powder coating (blue RAL 5002)
	Stem seal	EPDM (lubricated)
	Seat	EPDM
	End fitting	for use with ANSI class 125/150 flanges
	Bearing	RPTFE
	Disc	304 stainless steel
	Gear operator materials	Gears - hardened steel
Suitable actuators	Non-Spring	DRB(X)
		PRB(X)
	Electronic fail-safe	PKRB(X)





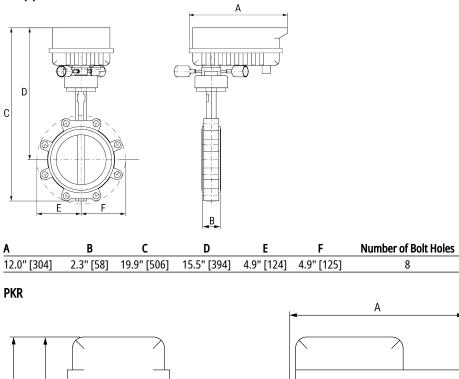


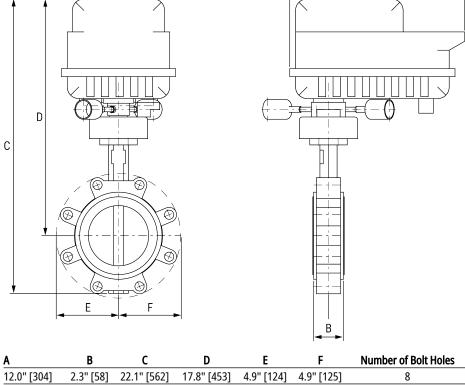
Dimensions













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

Technical data sheet

PKRXUP-MFT-T





Technical data

Electrical data	Nominal voltage	AC 24240 V / DC 24125 V
	Nominal voltage frequency	50/60 Hz
	Power consumption in operation	52 W
	Power consumption in rest position	9 W
	Transformer sizing	55 VA @ AC/DC 24 V (class 2 power source), 43 VA @ AC/DC 120 V, 68 VA @ AC 230 V
	Auxiliary switch	2 x SPDT, 3 A resistive (0.5 A inductive) @ AC 250 V, one set at 10°, one adjustable 090°
	Switching capacity auxiliary switch	3 A resistive (0.5 A inductive) @ AC 250 V
	Electrical Connection	Terminal blocks, (PE) Ground-Screw
	Overload Protection	electronic thoughout 090° rotation
Functional data	Communicative control	BACnet MS/TP Modbus RTU MP-Bus
	Operating range Y	210 V
	Operating range Y note	420 mA
	Input Impedance	100 kΩ 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
	Options positioning signal	variable (VDC, on/off, floating point)
	Position feedback U	210 V
	Position Feedback	210 V, Max. 0.5 mA, VDC variable
	Position feedback U note	Max. 0.5 mA
	Position feedback U variable	VDC variable
	Setting Fail-Safe Position	adjustable with Belimo Assistant App 0100% (default 0%)
	Bridging time	programmable 010 s (2 s default) delay before fail- safe activates
	Pre-charging time	520 s
	Direction of motion motor	reversible with app
	Direction of motion fail-safe	reversible with app
	Manual override	7 mm hex crank, supplied
	Angle of rotation	90°
	Running Time (Motor)	default 35 s, variable 30120 s
	Running time motor variable	30120 s
	Running time fail-safe	<30 s
	Noise level, motor	68 dB(A)
	Noise level, fail-safe	62 dB(A)
	Position indication	top mounted domed indicator
	Passive sensor inputs	2x (Pt1000, Ni1000, NTC10k2)



Safety data	Degree of protection IEC/EN	IP66/67	
	Degree of protection NEMA/UL	NEMA 4X	
	Enclosure	UL Enclosure Type 4X	
	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 temperature	-22122°F [-3050°C]	
	Ambient humidity	max. 95% r.H., non-condensing	
	Servicing	maintenance-free	
Weight	Weight	14 lb [6.4 kg]	
Materials	Housing material	Die cast aluminium and plastic casing	
fault/Configuration	manufacturing. If required, different para	ations of the PKRMFT actuator are assigned during ameters of the actuator can be ordered. These parameters are pre-set, the handheld ZTH US or using the Belimo App on a smart NFC) programming.	
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. 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 24240 V and DC 24125 V. Included is a smart heater with thermostat to eliminate condensation. T auxiliary switches are provided; one set at 10° open and the other is field adjustable. Running time is adjustable from 30120 seconds by using the Near Field Communication (NFC) app and a smart pho †Use 60°C/75°C copper wire size range 1228 AWG, stranded or solid. Use flexible metal conduit. Pu the listed conduit fitting device over the actuator's cable to butt against the enclosure. Screw in condi- connector. Jacket the actuators input wiring with listed flexible conduit. Properly terminate the condu-		
Factory settings	Default parameters for DC 210 V applica manufacturing. If required, different para	oltage 4000 V. Type of action 1. Control pollution degree 3. ations of the PKRMFT actuator are assigned during ameters of the actuator can be ordered. These parameters are ore-set, the handheld ZTH US or using the Belimo App on a smart	
	Materials fault/Configuration Application Operation	Enclosure Agency Listing Quality Standard Ambient temperature Ambient humidity Servicing Weight Materials Housing material fault/Configuration Default parameters for DC 210 V applic manufacturing. If required, different par variable and can be modified by factory p phone with Near Field Communications (Application PR Series valve actuators are designed w outdoor applications, the installed valve indoor applications the actuator can be in Operation The PR series actuator provides 90° of ro PR Series actuator uses a low power cons against overload. A universal power supp 24240 V and DC 24125 V. Included is auxiliary switches are provided; one set a adjustable from 30120 seconds by usin tUse 60°C/75°C copper wire size range 1 the listed conduit fitting device over the a connector. Jacket the actuators input wir a suitable junction box. Rated impulse Vor Befault parameters for DC 210 V applic manufacturing. If required, different par	

	Gateways Service tools	Description	Туре
		Gateway MP to BACnet MS/TP	UK24BAC
		Gateway MP to LonWorks	UK24LON
		Gateway MP to Modbus RTU	UK24MOD Type
		Description	
		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 parametrisable and communicative Belimo actuators, VAV controller and HVAC performance devices	ZTH US
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. Disconnect power. Provide overload protection and disconnect as required.



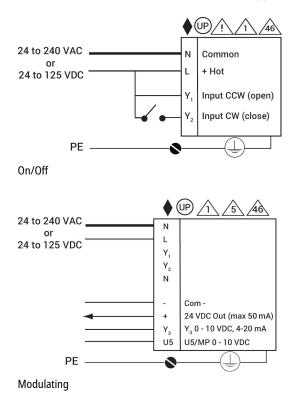
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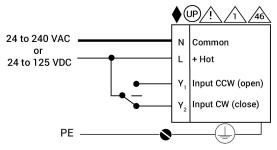
Two built-in auxiliary switches (2x SPDT), for end position indication, interlock control, fan startup, etc.

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

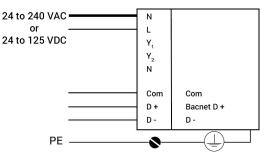
/ Warning! Live Electrical Components!

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.

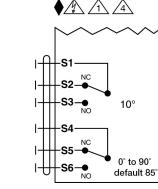




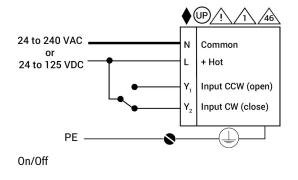
Floating Point

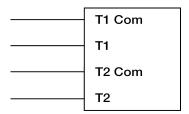


BACnet



Auxiliary Switches





Temperature Sensors