



Advanced Butterfly Valve Technology  
for High Flow Applications.

# Innovative – User Friendly – Reliable

Butterfly Valves are fundamental components in hydronic systems. Unfortunately, most butterfly valves are less than ideal – they leak, their running times are not optimized for HVAC applications, they're heavy, it's hard to access wiring, and they cannot be put into operation quickly.

The new Belimo technologically advanced butterfly valve is the exception. Designed specifically for HVAC applications, it offers an intelligent, energy efficient, and reliable high flow solution with a focus on ease of installation, application flexibility, and longevity.

Innovative Design

Patent pending self-adjusting end stop algorithm ensures zero leakage at 200 psi close-off. Cost saving integrated electronic fail-safe operation in a NEMA 4X enclosure.

User Friendly

Near Field Communication (NFC) along with BACnet communication provide superior application data access for easy troubleshooting, commissioning, and programming.

Proven Reliability

Patented brushless DC motor technology reduces energy consumption up to 80% and ensures longevity and optimal system performance.



**BACnet communication** protocol provides useful data for advanced BMS control sequences



**Near Field Communication (NFC)** allows fast programming, commissioning and troubleshooting – even when the actuator is not powered it can be programmed



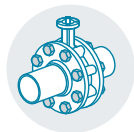
**NEMA 4X protection** for outdoor usage and protects the actuator against UV radiation, rain, snow, dirt, dust, and humidity



**Flexible position indicator** is viewable from long distances and any angle for easy troubleshooting



**Intelligent self-adjusting end stops** ensure an easy installation, less commissioning effort and adapts over the entire lifespan of the valve



**Ductile iron** valve body with a pressure rating of 232 psi



**0% Leakage rate** at 200 psi close-off pressure with the self-adjusting end stop algorithm ensures reliable operation throughout the entire life of the valve



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**Manual override** to desired valve position using detachable hand crank whether the actuator is off or powered on. Valve position is maintained until hand crank is removed

**Easy installation** with accessible connection box for wiring access, along with two bolt actuator mounting enable the valve assembly to be installed quickly

**Reduced height and weight** of the PR actuator allow for an optimized mechanical layout and easy installation



**Universal power supply** 24-240 VAC / 24-125 VDC requires only one actuator type which eases planning and increases flexibility for all applications



**80% less power consumption** with patented brushless DC motor technology saves energy and reduces transformer and wiring costs



**Electronic fail-safe option** provides security for safety sequences upon a loss of power



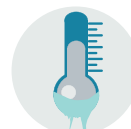
**Adjustable motor running time** from 30 to 120 seconds to satisfy application needs and avoid water hammer



**Smart heating logic** uses on-board temperature and humidity sensors within the actuator to activated heating elements to prevent condensation within the housing and improve actuator operating performance and longevity



**Thermal isolation** reduces heat transfer to the actuator and avoids condensation build-up



**Patent pending valve** designed specially for HVAC applications



### Electronic Fail-Safe Actuator





Unique electronics, software, and super capacitor technology not only enables user selection of fail position (0-100%) but also delays unnecessary actuator movements during short brown out conditions; avoiding changes in the HVAC and building automation system.

- Flexible configurations: on/off, floating point, modulating
- BACnet communication protocol provide superior application data access to execute advanced BMS control sequences
- NFC for quick adjustments and diagnostics

# The Most Intelligent Butterfly Valve on the Market

The resilient seated butterfly valves are designed to meet the needs of HVAC and commercial applications requiring zero leakage. The large Cv values provide an economical control valve solution for larger flow applications used in ANSI flanged piping systems. Typical applications include chiller and boiler isolation, primary bypass flow control, cooling tower isolation, large air handler coil control, and process control heat exchanger applications.

					Non-Spring Return	Electronic Fail-Safe		
								
	Model	Cv	Size		Close-off Pressure	On/Off, Floating Point	On/Off, Floating Point, Modulating	On/Off, Floating Point, Modulating
			Inches	DN				
2-Way	F6100HD	600	4	100	200 psi	PRBUP-3-T	PRXUP-MFT-T	PKRXUP-MFT-T
	F6125HD	1022	5	125		PRBUP-3-T	PRXUP-MFT-T	PKRXUP-MFT-T
	F6150HD	1579	6	150		PRBUP-3-T	PRXUP-MFT-T	PKRXUP-MFT-T
	F6200L	3136	8	200		PRBUP-3-T-200	PRXUP-MFT-T-200	PKRXUP-MFT-T-200
	F6250L	5340	10	250		PRBUP-3-T-250	PRXUP-MFT-T-250	PKRXUP-MFT-T-250
3-Way	F7100HD	600	4	100		PRBUP-3-T	PRXUP-MFT-T	PKRXUP-MFT-T
	F7125HD	1022	5	125		PRBUP-3-T	PRXUP-MFT-T	PKRXUP-MFT-T
	F7150HD	1579	6	150		PRBUP-3-T	PRXUP-MFT-T	PKRXUP-MFT-T
	F7200L	3136	8	200		PRBUP-3-T-200	PRXUP-MFT-T-200	PKRXUP-MFT-T-200
	F7250L	5340	10	250		PRBUP-3-T-250	PRXUP-MFT-T-250	PKRXUP-MFT-T-250
						<b>BACnet Included</b>		

- 100% duty cycle rating for increased actuator life.
- Saves energy with up to 80% less power consumption and reduces transformer and wiring costs.
- Self-adjusting close-off design provides zero leakage and improves system performance.
- Industry leading fail-safe function and universal power supply input 24-240 VAC / 24-125 VDC provides application flexibility.
- Unique position indication is viewable from long distances and any angle for easy troubleshooting.
- BACnet and NFC provide simplified setup and diagnostics, as well as superior application data access.



Belimo Americas

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