

### 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





ype overview		
уре		DN
750HD		50
echnical data		
Functional data	Valve size [mm]	2" [50]
	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 CWF
	Close-off pressure Δps	200 psi
	Flow characteristic	modified linear
	Servicing	maintenance-free
	Flow Pattern	3-way Mixing/Diverting
	Leakage rate	0%
	Controllable flow range	90° rotation
	Cv	115
	Maximum Velocity	12 FPS
	Lug threads	5/8-11 UNC
Materials	Valve body	Ductile cast iron ASTM A536
	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
Suitable actuators	Non-Spring	AMB(X) GMB(X)

**Dimensions** 

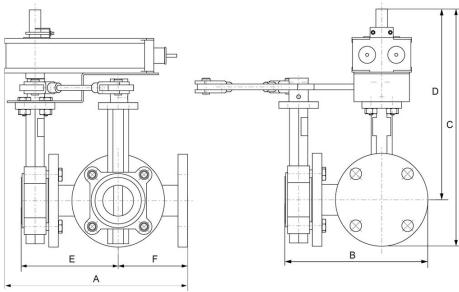
Type F750HD Weight

30.1 lb [14 kg]

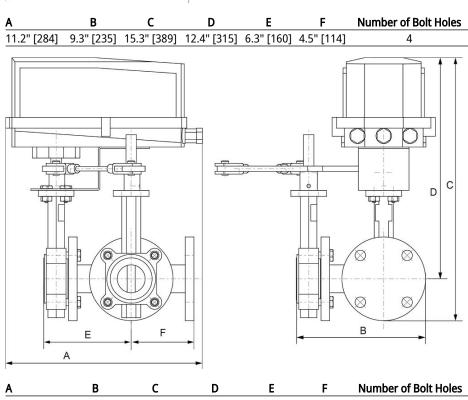
DN

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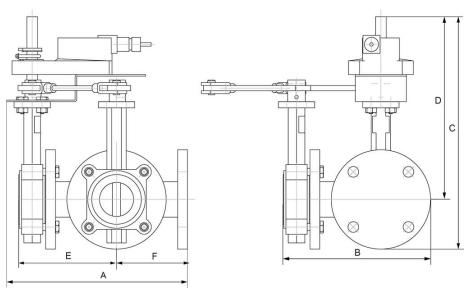
Valve with AF-X1 Actuator



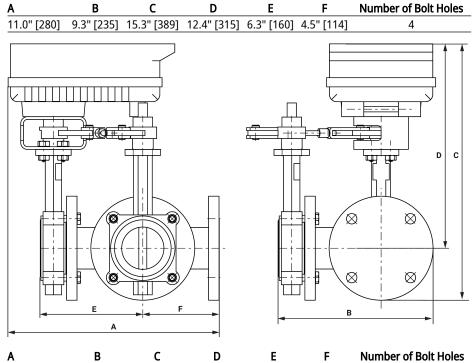
Valve with GM..N4 Actuator

Α	В	C	D	Ε	F	<b>Number of Bolt Holes</b>
13.5" [343]	10.0" [254]	18.9" [480]	16.0" [406]	6.3" [160]	4.5" [114]	4





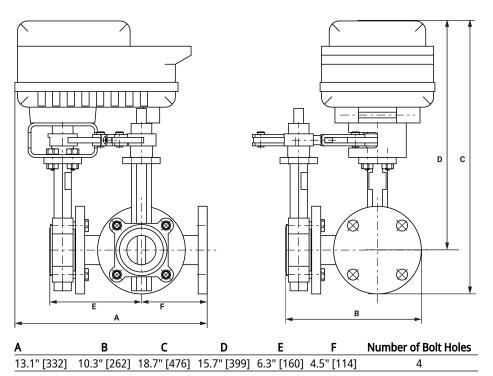
Valve with AM/GM Actuator



13.1" [332] 10.2" [260] 17.0" [433] 13.9" [354] 6.3" [160] 4.5" [114]

Valve with PR Actuator





Valve with PK Actuator

www.belimo.com

24 V

Technical data sheet

GMCX24-3-T-X1 N4







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Electrical data	Nominal voltage	AC/DC 24 V
	Nominal voltage frequency	50/60 Hz
	Nominal voltage range	AC 19.228.8 V / DC 21.628.8 V
	Power consumption in operation	8 W
	Power consumption in rest position	2.5 W
	Transformer sizing	11 VA
	Electrical Connection	Terminal blocks
	Overload Protection	electronic throughout 095° rotation
Functional data	Direction of motion motor	selectable with switch 0/1
	Manual override	under cover
	Angle of rotation	Max. 95°
	Angle of rotation note	adjustable with mechanical stop
	Running Time (Motor)	35 s / 90°
	Running time motor note	constant, independent of load
	Noise level, motor	45 dB(A)
	Position indication	Mechanically, 520 mm stroke
Safety data	Power source UL	Class 2 Supply
	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 humidity	Max. 100% RH
	Ambient temperature	-22122°F [-3050°C]
	Ambient temperature note	-4050°C for actuator with integrated heating
	Storage temperature	-40176°F [-4080°C]
	Servicing	maintenance-free
Weight	Weight	7.2 lb [4.5 kg]
Materials	Housing material	Die cast aluminium and plastic casing

**Footnotes** †Rated Impulse Voltage 800V, Type action 1, Control Pollution Degree 3.



#### **Accessories**

Electrical accessories	Description	Туре
	Battery backup system, for non-spring return models	NSV24 US
	Battery, 12 V, 1.2 Ah (two required)	NSV-BAT
Factory add-on option only	Description	Туре
	Heater, with adjustable thermostat	N4 Heater Add-on

#### **Electrical installation**

## **X** INSTALLATION NOTES

Provide overload protection and disconnect as required.

Actuators may also be powered by DC 24 V.

For triac sink the Common connection from the actuator must be connected to the Hot connection of the controller. Position feedback cannot be used with a triac sink controller; the actuator internal common reference is not compatible.

🛕 IN4004 or IN4007 diode. (IN4007 supplied, Belimo part number 40155).

Actuators are provided with a numbered screw terminal strip instead of a cable.

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

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.

# Wiring diagrams

