Date created, 03/16/2017 - Subject to change. Belimo Aircontrols (USA), Inc.

F6100HD, 4", 2-Way Butterfly Valve Resilient Seat, 304 Stainless Steel Disc

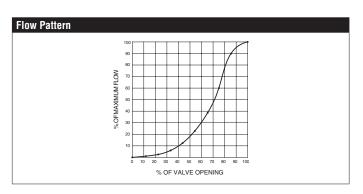








| chilled, hot water, up to 60% glycol |
|---|
| modified equal percentage |
| 90° rotation |
| 4" [100] |
| For use with ANSI Class 125/150 flanges |
| ductile iron ASTM A536 |
| epoxy powder coated |
| EPDM (lubricated) |
| EPDM |
| 416 stainless steel |
| RPTFE |
| 304 stainless steel |
| ANSI 125, standard class B |
| 8 |
| 5/8-11 UNC |
| -22°F to 250°F [-30°C to 120°C] |
| 200 psi |
| 10:1 (for 30° to 70° range) |
| 12 FPS |
| 600 |
| 12.6 lb [5.7 kg] |
| 0% |
| 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.

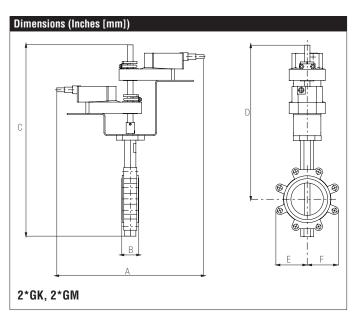
Jobsite Note

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° |
| 0.3 | 17 | 36 | 78 | 139 | 230 | 364 | 546 | 600 |

Suitable Actuators

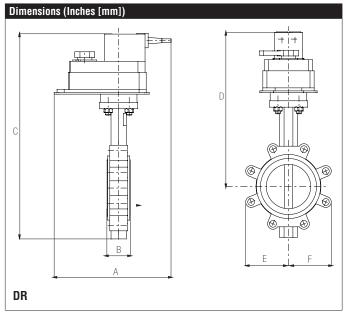
| | Non-Spring | Electronic Fail-Safe | | | |
|---------|--------------------------|----------------------|--|--|--|
| F6100HD | 2*GMB(X), DRB(X), PRB(X) | PKRB(X) | | | |



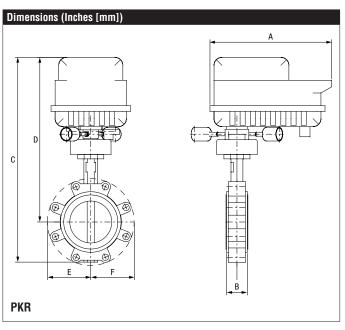
| Α | В | С | D | Е | F |
|-------------|------------|--------|--------|-------|-------|
| 17.9" [454] | 2.05" [52] | 22.88" | 18.50" | 3.94" | [100] |
| | | [580] | [470] | | |



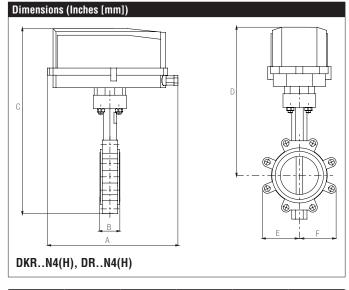
F6100HD, 4", 2-Way Butterfly Valve Resilient Seat, 304 Stainless Steel Disc



| | Α | В | С | D | Е | F |
|-----|---------|------------|-----------------|-----------|-------|-------|
| 8.5 | ' [217] | 2.05" [52] | 18.25" [464] | 21" [533] | 3.94" | [100] |

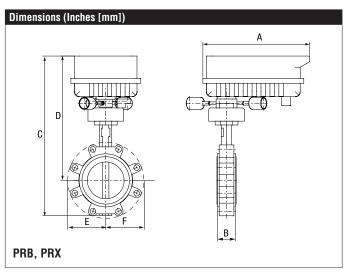


| | | | _ | | |
|---------|------------|-------------|--------|-------|---------|
| Α | В | C | D | E | F |
| 11.95" | 2.05" [52] | 20.4" [516] | 16.20" | 3.94" | ' [100] |
| [303.5] | | | [411] | | |



| А | В | С | D | Е | F |
|-------------|------------|-------------|--------|-------|-------|
| 14.1" [358] | 2.05" [52] | 20.4" [516] | 16.00" | 3.94" | [100] |
| | | | [406] | | |

F6100HD, 4", 2-Way Butterfly Valve Resilient Seat, 304 Stainless Steel Disc



| Α | В | С | D | E | F |
|---------|------------|---------|---------|-------|-------|
| 11.95" | 2.05" [52] | 17.86" | 13.92" | 3.94" | [100] |
| [303.5] | | [453.6] | [353.6] | | |

DRX24-MFT-T N4

Modulating, Non-Spring Return, 24 V, for 2 to 10 VDC or 4 to 20 mA





| | REG. EQUIP. |
|-------------------------------|---|
| Technical Data | |
| Power Supply | 24 VAC, ±20%, 50/60 Hz, 24 VDC, ±10% |
| Power Consumption Running | 12 W |
| Power Consumption Holding | 3 W |
| Transformer Sizing | 21 VA (class 2 power source) |
| Electrical Connection | screw terminal (for 22 to 12 AWG wire) |
| Overload Protection | electronic thoughout 0° to 90° rotation |
| Operating Range Y | 2 to 10 VDC, 4 to 20 mA w/ ZG-R01 (500 Ω, |
| | 1/4 W resistor), variable (VDC, floating point, |
| | on/off) |
| Input Impedance | 100 k Ω for 2 to 10 VDC (0.1 mA), 500 Ω for 4 |
| | to 20 mA, 1500 Ω for On/Off |
| Feedback Output U | 2 to 10 VDC, 0.5 mA max, VDC variable |
| Direction of Rotation (Motor) | reversible with built-in switch |
| Position Indication | dial |
| Manual Override | under cover |
| Running Time (Motor) | default 150 sec, variable 90150 sec |
| Ambient Humidity | 5 to 95% RH non condensing (EN 60730-1) |
| Storage Temperature Range | -40°F to 176°F [-40°C to 80°C] |
| Housing | NEMA 4X, IP66/67, UL Enclosure Type 4X |
| Housing Material | polycarbonate |
| Noise Level (Motor) | <45 dB (A) |
| Servicing | maintenance free |
| Quality Standard | ISO 9001 |
| Degree of Protection IEC/EN | IP66/67 |





Modulating, Non-Spring Return, 24 V, for 2 to 10 VDC or 4 to 20 mA

Wiring Diagrams



X INSTALLATION NOTES



Provide overload protection and disconnect as required.

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



Actuators may also be powered by 24 VDC.



A 500 Ω resistor (ZG-R01) converts the 4 to 20 mA control signal to 2



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



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.

