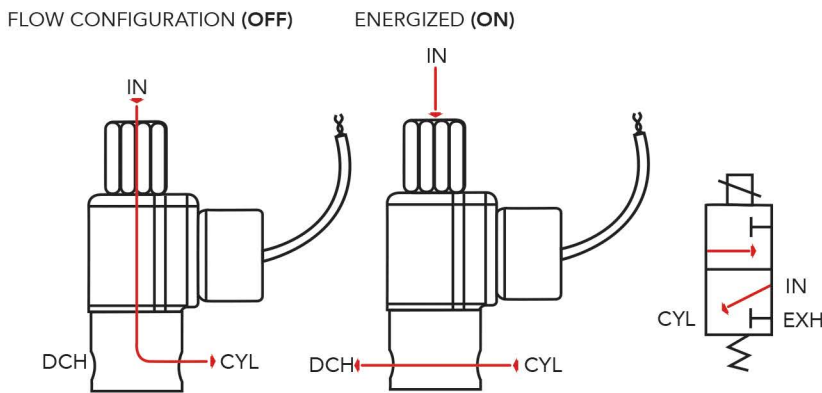


Solenoid Series 20 — Model 23

3-Way Normally Closed Valve (exhaust to atmosphere): A complete line of valves with a great selection of options and exceptional performance. The standard in the field of air, water and other fluids, compatible with standard Buna seals. Hot water, steam, gasoline and many oils require special seal materials.



Characteristics

1. The flagship valve initially created for fluid power industry.
2. Heavy duty — stainless steel.
3. A real workhorse with proven performance.
4. Greatest amount of options available, of all the valves.
5. Wide range of orifice sizes from: 1/32" to 1/4".

| VALVE SPECS + MAX. OPER. PRESS. DIFF. | | Orifice Size | | CV Factor | | Valve Number Grommet Housing | | Conduit Housing | |
|--|----------------------|--------------|------|-----------|------|------------------------------|-----------------------|-----------------------|-----------------------|
| AC | DC | N.C. | N.O. | N.C. | N.O. | 1/8 NPT Ports | 1/4 NPT Ports | 1/8 NPT Ports | 1/4 NPT Ports |
| 400 | 400 | 1/32 | 1/32 | .024 | .024 | 23GG7DGM | 23GG9DGM | 23GG7DCM | 23GG9DCM |
| 150 ⁽²⁰⁰⁾ | 150 ⁽²⁰⁰⁾ | 3/64 | 1/16 | .052 | .095 | 23HJ7DGM | 23HJ9DGM | 23HJ7DCM | 23HJ9DCM |
| 100 ⁽¹³⁵⁾ | 100 ⁽¹³⁵⁾ | 1/16 | 1/16 | .095 | .095 | 23JJ7DGM | 23JJ9DGM | 23JJ7DCM | 23JJ9DCM |
| 100 ⁽¹³⁵⁾ | 100 ⁽¹³⁵⁾ | 1/16 | 3/32 | .095 | .156 | 23JK7DGM | 23JK9DGM | 23JK7DCM | 23JK9DCM |
| 75 ⁽¹⁰⁰⁾ | 75 ⁽¹⁰⁰⁾ | 3/32 | 3/32 | .156 | .156 | 23KK7DGM | 23KK9DGM | 23KK7DCM | 23KK9DCM |
| 50 ⁽⁷⁰⁾ | 50 ⁽⁷⁰⁾ | 1/8 | 3/32 | .284 | .156 | 23NK7DGM | 23NK9DGM | 23NK7DCM | 23NK9DCM |
| 35 ⁽⁴⁰⁾ | 35 ⁽⁴⁰⁾ | 1/8 | 1/8 | .284 | .201 | 23NN7DGM [^] | 23NN9DGM [^] | 23NN7DCM [^] | 23NN9DCM [^] |
| 20 | 20 | 3/16 | 3/32 | .500 | .156 | 23PK7DGM | 23PK9DGM | 23PK7DCM | 23PK9DCM |
| 20 | 20 | 3/16 | 1/8 | .500 | .201 | 23PN7DGM [^] | 23PN9DGM [^] | 23PN7DCM [^] | 23PN9DCM [^] |
| 15 | — | 1/4 | 3/32 | .700 | .156 | 23RK7DGM | 23RK9DGM | 23RK7DCM | 23RK9DCM |
| 15 | — | 1/4 | 1/8 | .700 | .201 | 23RN7DGM [^] | 23RN9DGM [^] | 23RN7DCM [^] | 23RN9DCM [^] |

[^] VALVES WITH 1/8 N.O. ORIFICE ARE UL LISTED ONLY WHEN ORDERING VALVES OR REPAIR PACKS ADD VOLTAGE AND FREQUENCY TO COMPLETE VALVE NUMBER. EXAMPLES: VALVE (23JK9DGM-120/60) REPAIR PACK (K23JKD-AC)
+ Ratings in brackets are optional extended ratings; consult factory.



Solenoid Series 20 — Model 23 (continued)

Operating Conditions

| | |
|--|--|
| MEDIA: | Air, water and other fluids compatible with standard Buna seals. Hot water, steam, gasoline and many oils require special seal materials. (Series 20 pressure ratings may change due to the viscosity of the liquid.)* |
| VALVE TEMP RANGE: | Standard Valves - 0°F (-18°C) to 104°F (40°C) ambient; 0°F (-18°C) to 150°F (65°C) media. Optional valves can tolerate much higher or lower ambient and media temperatures. |
| MAX OPD: (operating pressure differential) | See table on page 1. |
| BURST PRESSURE: | 5000 PSI. |
| LEAKAGE: | Bubble tight for standard valves. |
| VACCUM: | To 5 microns. |



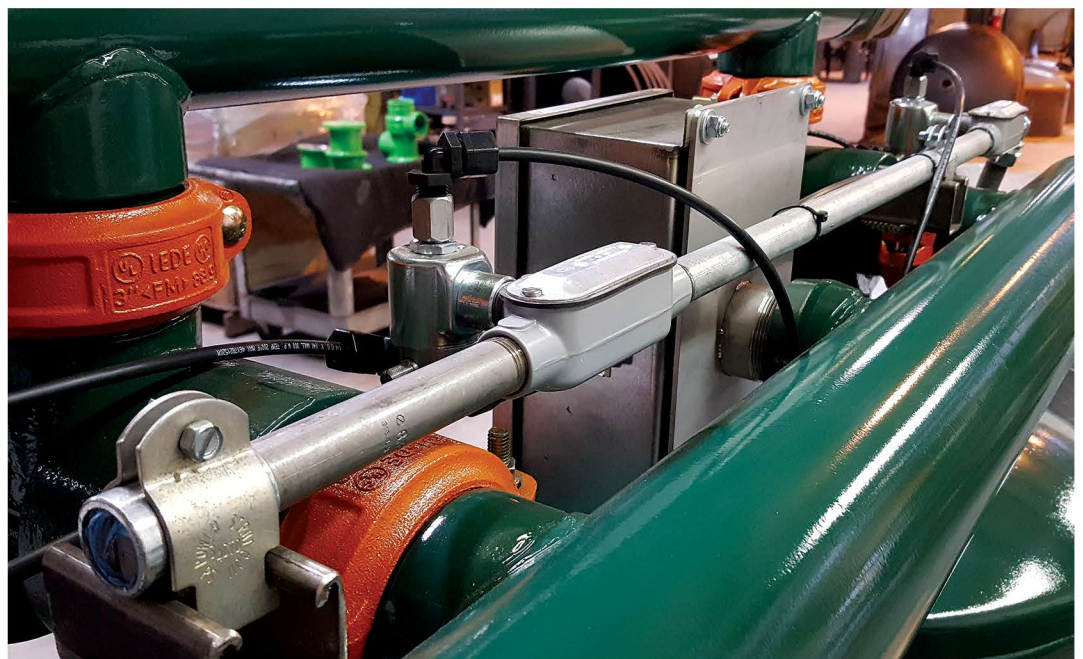
Mechanical

- 1. Body:** Stainless steel (Std.) or (Opt.)
- 2. Internal Components:** Stainless steel
- 3. Elastomers:** Nitrile (Buna) (Std.). Many other elastomers available*
- 4. Orifice Diameter:** See table on Page 1
- 5. Porting:** Standard 1/8" and 1/4" NPT (other ports available)
- 6. Housing:** Grommet and 1/2" NPT conduit - many options available*
- 7. Listings:** Most valves are UL and CSA listed.*
- 8. Life Expectancy:** Millions of cycles, depending on application, lubrication, etc.
- 9. Valve Weight:** Grommet Valve - 1.06 lb. Conduit Valve - 1.13 lb.
- 10. Repair Packs:** See table on Page 1
- 9. Options:** Alternate port locations, Metering, Manual Override, Alternate Elastomers, Spade Terminal Coil, European Style DIN, Explosion Proof and Magnetic Latching Coil

* Consult representative or factory for options and specifications

Electrical

- 1. Coil Voltage:** 6 to 825 VAC 60 Hz and 5 to 720 VAC 50Hz, — 1.8 to 265 VDC
- 2. Nominal Power:** AC - 8.7 Watts DC - 9.5 Watts
- 3. Coil Construction:** Molded (Std.), Non-molded Class A and Potted Class F or Class H (Opt.)
- 4. Operating Speed:** Up to 600 CPM
- 5. Duty Cycle:** Continuous



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