

SOLENOID VALVES

4707 Massachusetts Ave. - P.O. Box 18128
 Indianapolis, Indiana 46218-0128
 Ph: 1-800-63 GOULD Fx: (317) 547-5234
 Web: <http://www.gouldvalve.com>
 E-mail: gouldvalve@gouldvalve.com

1/8" • 1/4" • 3/8" NPT

TYPE GX SERIES

2-WAY • PACKLESS • DIRECT ACTING
 GENERAL PURPOSE SOLENOID VALVES
 NORMALLY CLOSED OR NORMALLY OPEN • FRACTIONAL PORT

- ★ SIZES: 1/8", 1/4", 3/8" NPT • FRACTIONAL ORIFICE
- ★ MAT'L: ALL INTERNAL PARTS ARE 316 STAINLESS STEEL
- ★ FOR: CORROSIVE SERVICE-AIR-INERT GASES-WATER-OIL-STEAM
- ★ PRESSURES: 0 TO RATED MAXIMUM
- ★ TEMPERATURE: -360°F. MIN TO 450°F MAX. FLUID
- ★ MOUNTING: INSTALL IN HORIZONTAL LINE WITH COIL UPRIGHT AND ON TOP



SIZES 1/8" - 3/8" NPT FRACTIONAL PORT

★ SERVICE RATINGS

Pricing, Service & Electrical Ratings shown in the List Price Schedule.
 Valves will be furnished for 60 psi Air & Water Service and 120 VAC Unless Otherwise Specified.

| CORROSIVE SERVICE: AIR-WATER-OIL-INERT GAS 0 to Maximum Operating Pressure Differential 300°F. Max. Fluid Temperature Class F Coil 12, 24, 55, 120, 240, 480 VAC 50/60 Hz 12, 24, 32, 115, 230 VDC | MAXIMUM OPERATING PRESSURE DIFFERENTIAL | | | | | | | | | |
|--|---|-----------------------|---------|------|-------|-------|-------|------|-------|-------|
| | TYPE | | ORIFICE | 1/4" | 7/32" | 3/16" | 5/32" | 1/8" | 3/32" | 1/16" |
| | NORMALLY CLOSED | GX 26 WATTS MAX | AIR-GAS | 15 | 23 | 30 | 45 | 60 | 120 | 200 |
| WATER | | | 10 | 15 | 20 | 30 | 45 | 80 | 150 | |
| OIL | | | 5 | 8 | 10 | 15 | 27 | 40 | 75 | |
| GX5 26 WATTS MAX | | AIR-GAS | 40 | 82 | 120 | 175 | 300 | 300 | 300 | |
| | | WATER | 30 | 46 | 60 | 90 | 140 | 250 | 300 | |
| | | OIL | 15 | 24 | 32 | 45 | 75 | 130 | 230 | |
| NORM OPEN | GRX 26 WATTS MAX | AIR-GAS | 40 | 46 | 50 | 70 | 100 | 150 | 250 | |
| | | WATER | 28 | 33 | 36 | 60 | 70 | 100 | 200 | |
| | | OIL | 10 | 13 | 15 | 25 | 35 | 50 | 100 | |

| HIGH TEMP. SERVICE: AIR-INERT GASES-STEAM- HOT LIQUIDS 0 to Maximum Operating Pressure Differential 450°F. Max. Fluid Temperature Class N Coil 120, 240, 480 VAC 50/60 Hz, | MAXIMUM OPERATING PRESSURE DIFFERENTIAL | | | | | | | | | |
|---|---|-------------------------|---------|------|-------|-------|-------|------|-------|-------|
| | TYPE | | ORIFICE | 1/4" | 7/32" | 3/16" | 5/32" | 1/8" | 3/32" | 1/16" |
| | NORMALLY CLOSED | GX-1 28 WATTS MAX | AIR-GAS | 15 | 18 | 20 | 30 | 45 | 65 | 120 |
| WATER | | | 10 | 13 | 15 | 20 | 30 | 45 | 80 | |
| OIL | | | 5 | 6 | 7 | 10 | 15 | 20 | 40 | |
| STEAM | | | 15 | 18 | 20 | 30 | 45 | 65 | 120 | |
| NORMALLY OPEN | GRX-1 28 WATTS MAX | AIR-GAS | 28 | 32 | 35 | 50 | 70 | 100 | 150 | |
| | | WATER | 20 | 23 | 25 | 40 | 50 | 70 | 150 | |
| | | OIL | 7 | 8 | 10 | 16 | 25 | 35 | 70 | |
| | | STEAM | 28 | 32 | 35 | 50 | 70 | 100 | 150 | |

| | |
|--------------------------------|---|
| ADD -2 | EXPLOSION PROOF COIL HOUSING – NEMA 7 |
| ADD -3B, -3EP, -3T, -3V | LEAKPROOF PILOT SEAT: -3B (BUNA), -3EP ETHYLENE- PROPYLENE, -3T (TEFLON®) PTFE, -3V (VITON®) FLUOROCARBON |
| ADD -24 | WATER TIGHT COIL HOUSING - NEMA 4 & NEMA 7 |
| ADD -25 | DUST TIGHT COIL HOUSING - NEMA 5 & NEMA 7 |
| ADD -57 | MANUAL RESET, SAFETY SHUT-OFF, NO VOLTAGE RELEASE. |
| ADD -9 | SPECIAL CONSTRUCTION FOR CRYOGENIC APPLICATIONS. FLUID TEMPERATURE TO -360°F |

★ **CONSTRUCTION:** CLASS F & N COILS are Waterproof, Fungusproof, Molded of Filled Polyester with 18" Leads. 316 Stainless Steel PLUNGER TUBE is Welded into the 90° Angled 316 Stainless Steel BODY, providing side inlet and bottom outlet. The PILOT has a 316 SS JACKET Welded around a carbon steel CORE, that provides direct opening and closing of the valve. All COIL HOUSINGS have 1/2" threaded conduit connections.

1. **SPECIALS:** Teflon® Coated Pilot & other Special Assemblies Available. Non-Standard Coils are Available with Voltage, Wattage, and Lead Wire Length to your specifications. Consult Factory.
2. **TERMS AND CONDITIONS OF SALE:** See the List Price Schedule

PERFORMANCE, ORDERING AND INSTALLATION GUIDE

ORDERING DATA--SPECIFY PIPE SIZE, TYPE, FLUID, OPERATING PRESSURE, TEMPERATURE RANGE, ELECTRICAL SPECIFICATIONS, BACK PRESSURE (IF ANY).

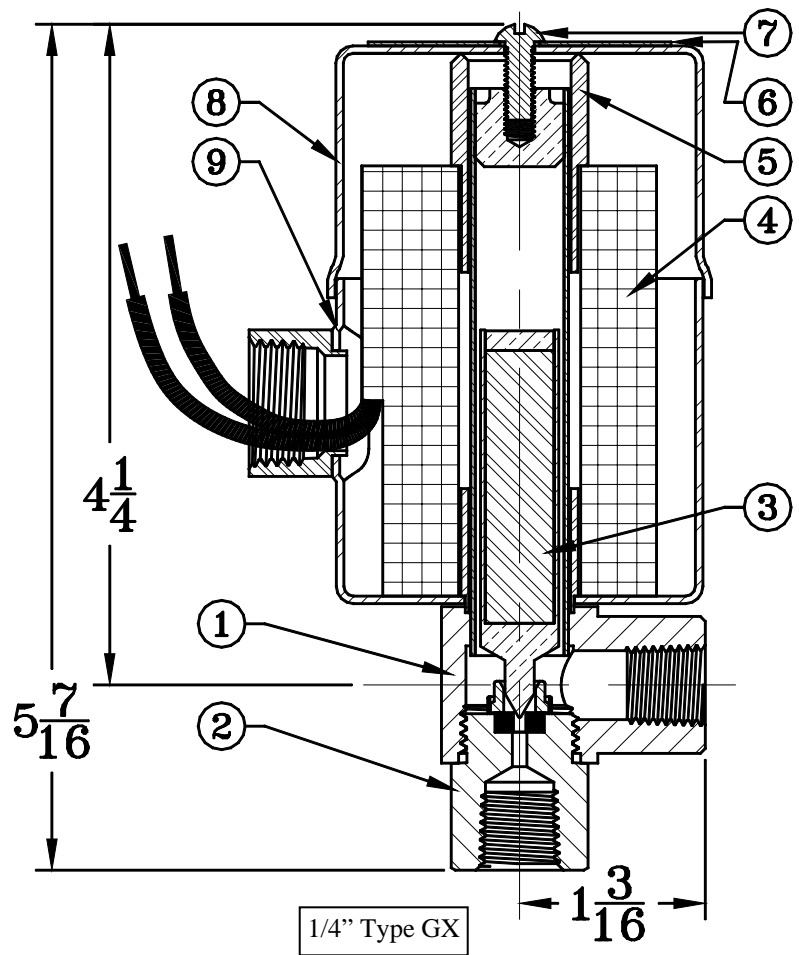
FLOW CHARACTERISTICS--SEE FLOW CURVES IN BULLETIN 5-FL, OR C_v FACTORS LISTED BELOW AND IN BULLETIN CP-1.

OPERATION—DIRECT ACTING FOR OPERATION FROM 0 TO RATED PRESSURE.

MOUNTING--MOUNT IN HORIZONTAL LINE WITH COIL VERTICAL AND ON TOP. INSTALL 40 MESH STRAINER (NOT LARGER) AHEAD OF VALVE. CHECK FOR PROPER COIL VOLTAGE. MAKE SURE THAT THE FLOW INLET IS ON THE SIDE AND THE OUTLET IS DOWN.

SERVICING--SOLENOID VALVES SHOULD BE FREQUENTLY CHECKED FOR OPERATION, CLEANLINESS, & INTERNAL WEAR - REPAIR KITS ARE FACTORY AVAILABLE --GIVE SIZE, TYPE, SERIAL NUMBER OR OPERATING DATA (VOLTAGE, PRESSURE, ETC.)

| # | Part Description | NEMA Rating | TYPES G, -2,-24,-25 | | |
|---|------------------------|-------------|---------------------|------------|------------|
| | | | 1/8" | 1/4" | 3/8" |
| 1 | Body | 1 | P1801GX | P1802GX | P1803GX |
| | XP Body | 4, 5, 7 | P1801GXXP | P1802GXXP | P1803GXXP |
| | N.O. Body | 1 | P1801GRX | P1802GRX | P180GRX |
| | N.O. XP Body | 4, 5, 7 | P1801GRXXP | P1802GRXXP | P1803GRXXP |
| 2 | Body Nut | ALL | 1811GXx | 1812GXx | 1813GXx |
| 3 | Pilot Assembly | 1 | P2421 | P2421 | P2421 |
| | XP Pilot Assembly | 4, 5, 7 | P2421 | P2421 | P2421 |
| | N.O. Pilot Assembly | 1 | P242R4 | P242R4 | P242R4 |
| | N.O. XP Pilot Assembly | 4, 5, 7 | P242R4 | P242R4 | P242R4 |
| 4 | Coil | ALL | | | |
| 5 | Top Nip | 1 | 115-2 | 115-2 | 115-2 |
| | XP End Plate | 4, 5, 7 | 113 | 113 | 113 |
| | N.O. Top Nip | 1 | 115-3 | 115-3 | 115-3 |
| 6 | Nameplate | ALL | 44-1x | 44-1x | 44-1x |
| 7 | Screw | ALL | 9 | 9 | 9 |
| 8 | Coil Cover | 1 | 89 | 89 | 89 |
| | XP Coil Cover | 4, 5, 7 | 42NC | 42NC | 42NC |
| | N.O. Coil Cover | 1 | 89NO | 89NO | 89NO |
| | N.O. XP Coil Cover | 4, 5, 7 | 42NO | 42NO | 42NO |
| | Bolts | 4, 5, 7 | 9-4 | 9-4 | 9-4 |
| | Washers | 4, 5, 7 | 46-3 | 46-3 | 46-3 |
| 9 | Coil Housing | 1 | 87 | 87 | 87 |
| | XP Coil Housing | 4, 5, 7 | 41A | 41A | 41A |



| Physical Dimensions | | | | | | | | | | |
|---|-------|-------|-------|-------|-------|------|-------|-------|-------|------|
| Orifice | 3/64" | 1/16" | 5/64" | 3/32" | 7/64" | 1/8" | 5/32" | 3/16" | 7/32" | 1/4" |
| C _v | 0.05 | 0.08 | 0.12 | 0.18 | 0.26 | 0.30 | .50 | .70 | 1.00 | 1.20 |
| Shipping Weight for all NEMA 1 Type GX Valves is 3 lbs | | | | | | | | | | |
| Shipping Weight for all NEMA 4, 5, & 7 Type GX (-2) Valves is 7 lbs | | | | | | | | | | |
| For Height Values of NEMA 4, 5, & 7 Valves Add 0.69" | | | | | | | | | | |
| For Height Values of Normally Open Valves Add 1.00" | | | | | | | | | | |
| For Height Values of Normally Open, NEMA 4, 5, & 7 Valves Add 1.75" | | | | | | | | | | |