

# GENERAL PURPOSE VALVES



## Series 20 >> Model 21

### 2-Way Normally Open Valve

A complete line of valves with a great selection of options and exceptional proven performance. The standard in the field. Air, water, and other fluids compatible with standard Buna seals. Hot water, steam, gasoline, and many oils require special seal materials.

- The flagship valve initially created for fluid power industry.
- Heavy duty and made of stainless steel.
- A real workhorse with proven performance.
- It has the greatest amount of options available of all the valves.
- Wide range of orifice sizes from 1/32" to 1/8".

## 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 Temperature 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 much lower ambient and media temperatures.

**Maximum Operating Pressure Differentials:** See table on proceeding page.

**Burst Pressure:** 5000 PSI

**Leakage:** Bubble tight for standard valves.

**Vacuum:** To 5 Microns\*

## ELECTRICAL CHARACTERISTICS

**Coil Voltage:** 6 to 825V AC 60 HZ. and 5 to 720V AC 50 HZ. – 1.8 to 265V DC

**Nominal Power:** AC – 8.7 Watts DC – 9.5 Watts

**Coil Construction:** Non-molded Class A (Std.), Molded and Potted Class F or Class H (Opt.)

**Typical Response Time on Air:** 4 - 16 Milliseconds

**Operating Speed:** Up to 600 CPM

**Duty Cycle:** Continuous

## MECHANICAL CHARACTERISTICS

**Body:** Stainless Steel (Std.) or Brass (Opt.)

**Internal Components:** Stainless Steel

**Elastomers:** Nitrile (Buna) (Std.). Many other elastomers available.\*

**Orifice Diameter:** See table on proceeding page.

**Porting:** Standard 1/8" and 1/4" NPT (other ports available).\*

**Housing:** Grommet and 1/2" NPT conduit - many options available.\*

**Listings:** Most valves are UL and CSA listed.\*

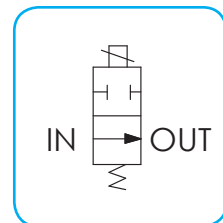
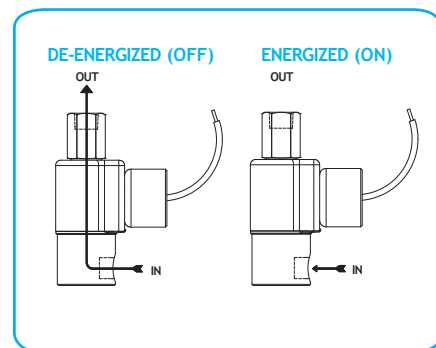
**Life Expectancy:** Millions of cycles, depending on application, lubrication, etc.

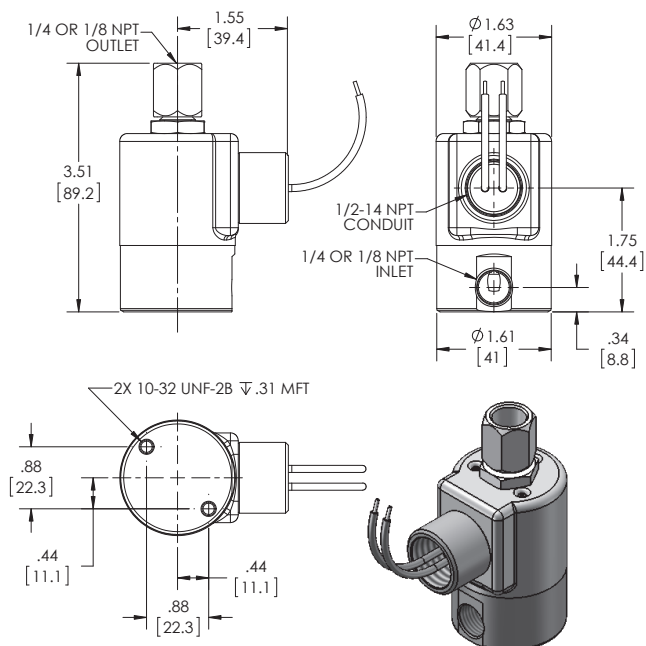
**Valve Weight:** Grommet Valve: 1.13 lb Conduit Valve: 1.19 lb

**Repair Packs:** See table on proceeding page.

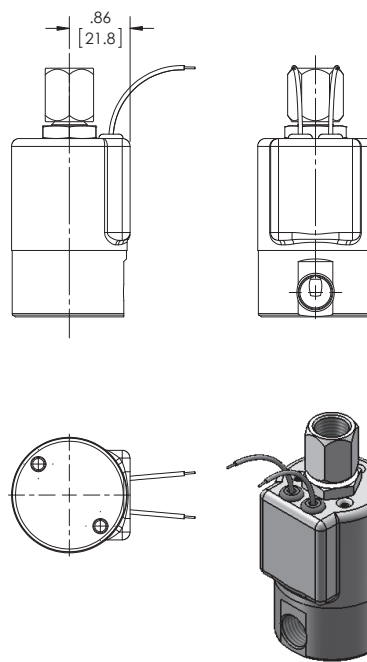
**Options:** Alternate Port Locations, Metering, Manual Override, Alternate Elastomers, Spade Terminal Coil, European Style DIN, Explosion Proof and Magnetic Latching Coil

\* Consult representative or factory for options and specifications.





**SERIES 20 MODEL 21  
2WNO  
CONDUIT COIL CONNECTION**



**SERIES 20 MODEL 21  
2WNO  
GROMMET HOUSING WITH LEADS**

## VALVE SPECIFICATIONS

+ MAX. OPER. PRESS. DIFF.		ORIFICE SIZE N.O.	CV FACTOR N.O.	VALVE NUMBER			
AC	DC			GROMMET HOUSING		CONDUIT HOUSING	
				1/8 NPT PORTS	1/4 NPT PORTS	1/8 NPT PORTS	1/4 NPT PORTS
400 (700)*	400 (700)*	1/32	.024	21G7XGV	21G9ZGV	21G7XCV	21G9ZCV
235 (500)	235 (500)	3/64	.053	21H7XGV	21H9ZGV	21H7XCV	21H9ZCV
150 (350)	150 (350)	1/16	.095	21J7XGV	21J9ZGV	21J7XCV	21J9ZCV
100 (150)	100 (150)	3/32	.156	21K7XGV	21K9ZGV	21K7XCV	21K9ZCV
35 (40)	35 (40)	1/8	.201	21N7XGV <sup>^</sup>	21N9ZGV <sup>^</sup>	21N7XCV <sup>^</sup>	21N9ZCV <sup>^</sup>

<sup>^</sup> VALVES WITH 1/8 N.O. ORIFICE ARE UL LISTED ONLY

\* FKM seals not recommended for pressure ratings above 500 PSI.

WHEN ORDERING VALVES OR REPAIR PACKS ADD VOLTAGE AND FREQUENCY TO COMPLETE VALVE NUMBER. EXAMPLES: VALVE (21J9ZGV-120/60) REPAIR PACK (K21JDX-AC).

+ Ratings in brackets are optional extended ratings; consult factory.