

SPECIFICATIONS—2-WAY NORMALLY CLOSED

OPERATING CONDITIONS

Media: Air, water, and other fluids compatible with standard Buna seals. Hot water, steam gasoline, and many oils require special seal materials - Consult representative or factory.

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. Consult factory for specifics.

Maximum Operating Pressure Differentials: See Catalog listings.

Burst Pressure: Series 20, 30, 50 - 5000 PSI Series 70 - 4000 PSI

Leakage: Bubble tight for standard valves

Vacuum: To 5 Microns - Consult factory

ELECTRICAL CHARACTERISTICS

Coil Voltage: Series 20 - 5 to 825 VAC 50-60 HZ. – 1.8 to 265V DC
 Series 30 - 5.2 to 650 VAC 50-60 HZ. – 2 to 240V DC
 Series 50 - 5.4 to 575 VAC 50-60 HZ. – 3.0 to 300V DC
 Series 70 - 12 to 1050 VAC 50-60 HZ. – 2.5 to 220V DC

Nominal Power:

Series	D.C.	A.C.	Series	D.C.	A.C.
20	9.5	7.7 Watts	50	7.0	6.0 Watts
30	8.0	7.0 Watts	70	16.0	18.0 Watts

Coil Construction: Non-molded Class A, Molded and potted Class F. (Class H optional)

Typical Response Time on Air: 4 - 16 Milliseconds—all series

MECHANICAL CHARACTERISTICS

Body: Stainless steel (standard) - Ser. 20, 50, & 70
 Brass (optional) - Ser. 20, 50, & 70 - Consult factory
 Brass (standard) - Ser. 30
 Aluminum (optional) - Ser. 50 - Consult factory

Orifice Diameter: See catalog listings

Porting: See catalog listings

Housing: Grommet & 1/2" NPT conduit - many options available.

Listings: Most valves are U.L. and CSA listed - Consult factory for specifics.

OPTIONS AVAILABLE: – 2 WAY NORMALLY CLOSED

FOR ILLUSTRATED OPTIONS SEE PAGES 76-81

FOR FLOW CHARTS SEE PAGES 95-97

HOUSING OPTIONS—see page 78

STRAIN RELIEF CONNECTOR
All Models

SINGLE AUTOMOTIVE
All Models except 52

DOUBLE AUTOMOTIVE
All Models except 52

"AN" CONNECTOR
All Models

SPLICE BOX HOUSING
All Models

JIC HOUSING
Model 22

YOKE
All Models

MOUNTING BRACKET
All Models

COIL OPTIONS—see page 79

MOLDED COIL
All Models

THIRD WIRE GROUND
All conduit Models

POTTED COIL & HOUSING
All Models

SPADE TERMINAL COIL - MOLDED
Models 22, 32, 52

HIGH TEMPERATURE MOLDED COIL
All Models

EUROPEAN DIN STYLE COIL
Model 22, 32

BODY OPTIONS—see page 80

METERING TO 1/8 ORIFICE
Model 22, 32, 52

METERING TO 1/4 ORIFICE
Model 22, 72

METERED BYPASS
Model 22

MANUAL OVERRIDE
Model 22*, 72**†

PORT OPTIONS—see page 81

BOTTOM ORIFICE PORT
All Models

BOTTOM CAVITY PORT
Model 22**, 32, 52, 72

PORT 90° LEFT
Model 22, 32, 72

MANIFOLD MOUNT
Model 22**, 32, 52, 72

FLANGE MOUNT
Models 22**, 72

PORT 90° RIGHT
Model 22, 32, 72

MISCELLANEOUS OPTIONS—see page 76

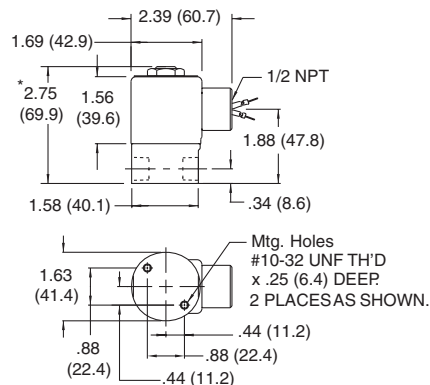
SILVER SHADING RING
All Models

ALUMINUM SHADING RING
All Models

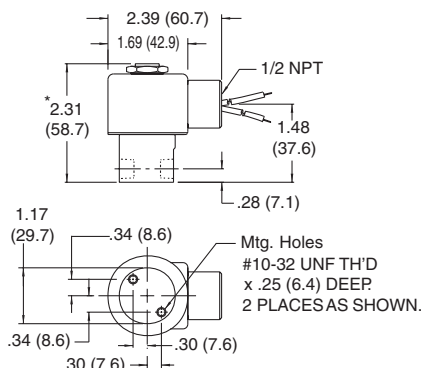
BUILT IN MUFFLER
All Models

UNIVERSAL MOUNTING BRACKET
Models 22, 32, 52, 72

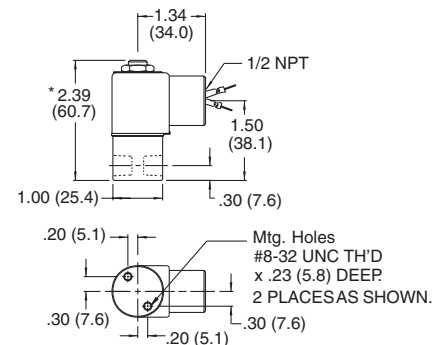
Note: Availability of certain options or combination of options may vary with quantity of units ordered - Consult representative or factory.



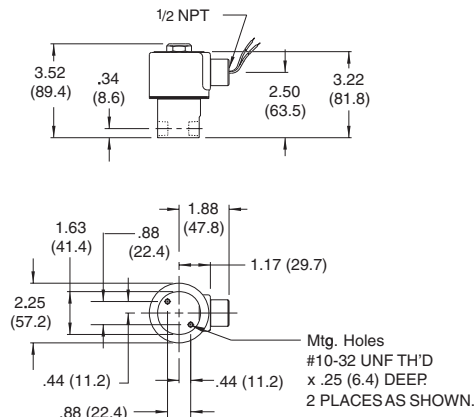
* ADD .165 (4.2) FOR SPADE TERMINAL COIL OPTION



* ADD .100 (2.5) FOR SPADE TERMINAL COIL OPTION



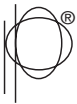
* ADD .232 (5.9) FOR SPADE TERMINAL COIL OPTION



* Not available over 250 psi

** Not available in 1/4" orifice & larger

† Not available over 300 psi



PETER PAUL

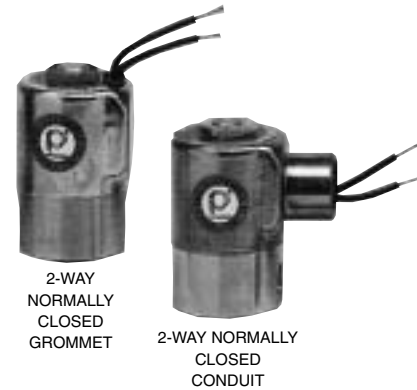
SOLENOID VALVES . . .

SERIES 20—MODEL 22

+MAX. OPER. PRESS. DIFF.		ORIFICE SIZE INLET EXH.	CV FACTOR INLET EXH.
AC	DC		
500	500	1/32	.024
250 (500)	250 (500)	3/64	.052
200 (400)	200 (400)	1/16	.095
125 (300)	125 (250)	3/32	.156
100 (200)	100 (200)	1/8	.284
75	50	5/32	.404
50	25	3/16	.500
20	5	1/4	.700
15	—	5/16	1.000

VALVE NUMBER

GROMMET HOUSING		CONDUIT HOUSING		REPAIR PACK WT. 0.25 LB
Grommet Valve WT. 1.06 LB.		Conduit Valve WT. 1.13 LB		
1/2 NPT PORTS	1/4 NPT PORTS	1/2 NPT PORTS	1/4 NPT PORTS	
22G7DGV	22G9DGV	22G7DCV	22G9DCV	K22GDD
22H7DGV	22H9DGV	22H7DCV	22H9DCV	K22HDD
22J7DGV	22J9DGV	22J7DCV	22J9DCV	K22JDD
22K7DGV	22K9DGV	22K7DCV	22K9DCV	K22KDD
22N7DGV	22N9DGV	22N7DCV	22N9DCV ✓	K22NDD
22O7DGV	22O9DGV	22O7DCV	22O9DCV	K22ODD
22P7DGV	22P9DGV	22P7DCV	22P9DCV	K22PDD
22R7DGV	22R9DGV	22R7DCV	22R9DCV	K22RDD
—	22S9DGV	—	22S9DCV	K22SDD

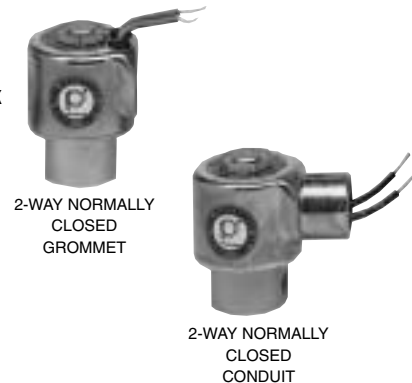


SERIES 30—MODEL 32

MAX. OPER. PRESS. DIFF.		ORIFICE SIZE INLET EXH.	CV FACTOR INLET EXH.
AC	DC		
*375 (650)	*375 (650)	1/32	.024
*280 (650)	*280 (650)	3/64	.055
275	250	1/16	.105
180	100	3/32	.195
130	80	7/64	.220
90	50	1/8	.275
60	25	5/32	.360
40	15	3/16	.400

VALVE NUMBER

GROMMET HOUSING		CONDUIT HOUSING		REPAIR PACK WT. 0.25 LB
Grommet Valve WT. 0.75 LB.		Conduit Valve WT. 0.75 LB		
1/2 NPT PORTS	1/4 NPT PORTS	1/2 NPT PORTS	1/4 NPT PORTS	
BRASS	STAINLESS	BRASS STEEL	STAINLESS STEEL	
32G5DGV	—	32G5DCV	—	K32GDD
32H5DGV	32H8DGV	32H5DCV	32H8DCV	K32HDD
32J5DGV	32J8DGV	32J5DCV	32J8DCV	K32JDD
32K5DGV	32K8DGV	32K5DCV	32K8DCV	K32KDD
32L5DGV	32L8DGV	32L5DCV	32L8DCV	K32LDD
32N5DGV ✓	32N8DGV	32N5DCV	32N8DCV	K32NDD
32O5DGV	32O8DGV	32O5DCV	32O8DCV	K32ODD
32P5DGV	32P8DGV	32P5DCV	32P8DCV	K32PDD

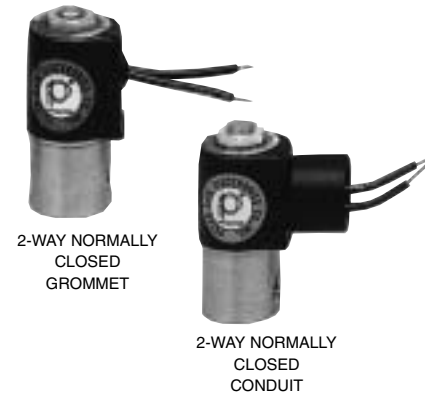


SERIES 50—MODEL 52

+MAX. OPER. PRESS. DIFF.		ORIFICE SIZE INLET EXH.	CV FACTOR INLET EXH.
AC	DC		
*500 (1000)	*250 (1000)	1/32	.022
*400 (700)	150 (450)	3/64	.055
200 (470)	100 (325)	1/16	.075
150 (270)	75 (210)	5/64	.134
100 (260)	45 (175)	3/32	.156
75 (135)	25 (100)	1/8	.230
40 (50)	10 (20)	5/32	.292

VALVE NUMBER

GROMMET HOUSING		CONDUIT HOUSING		REPAIR PACK WT. 0.19 LB
Grommet Valve WT. 0.38 LB.		Conduit Valve WT. 0.44 LB		
1/2 NPT PORTS	1/4 NPT PORTS	1/2 NPT PORTS	1/4 NPT PORTS	
52G8DGB	—	52G8DCB	—	K52GDD
52H8DGB	—	52H8DCB	—	K52HDD
52J8DGB ✓	—	52J8DCB	—	K52JDD
52V8DGB	—	52V8DCB	—	K52VDD
52K8DGB	—	52K8DCB	—	K52KDD
52N8DGB	—	52N8DCB	—	K52NDD
52O8DGB	—	52O8DCB	—	K52ODD



SERIES 70—MODEL 72

MAX. OPER. PRESS. DIFF.		ORIFICE SIZE INLET EXH.	CV FACTOR INLET EXH.
AC	DC		
500	500	3/32	.22
300	300	1/8	.35
225	225	5/32	.45
140	140	3/16	.55
100	100	1/4	.78

VALVE NUMBER

GROMMET HOUSING		CONDUIT HOUSING		REPAIR PACK WT. 0.38 LB
Grommet Valve WT. 2.00 LB.		Conduit Valve WT. 2.06LB		
1/2 NPT PORTS	1/4 NPT PORTS	1/2 NPT PORTS	1/4 NPT PORTS	
72K9DGV	—	72K9DCV	—	K72KDD
72N9DGV	—	72N9DCV	—	K72NDD
72O9DGV	—	72O9DCV	—	K72ODD
72P9DGV	—	72P9DCV	—	K72PDD
72R9DGV ✓	—	72R9DCV	—	K72RDD



WHEN ORDERING VALVES OR REPAIR PACKS ADD VOLTAGE AND FREQUENCY TO COMPLETE VALVE NUMBER.
 EXAMPLES: VALVE (72K9DGV-120/60) REPAIR PACK (K72KDD-AC) See repair pack reference page 82

*FKM seals not recommended for pressure ratings above 500 PSI

NOTE: The above checked (✓) Valves, but with optional molded coils, are most popular based on sales and likely to be in Distributor stock.