

SPECIFICATIONS—3-WAY NORMALLY OPEN

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. (Series 50 pressure ratings may change due to the viscosity of the liquid-consult factory for de-rating)

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	8.7 Watts	50	7.0	6.0 Watts
30	8.0	8.0 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

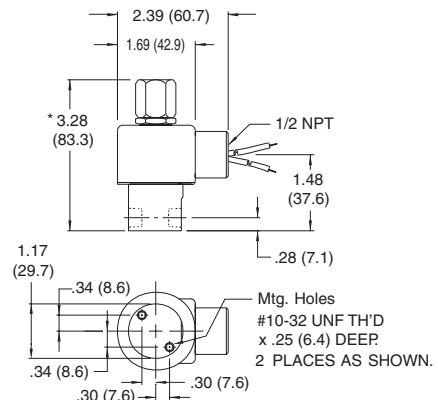
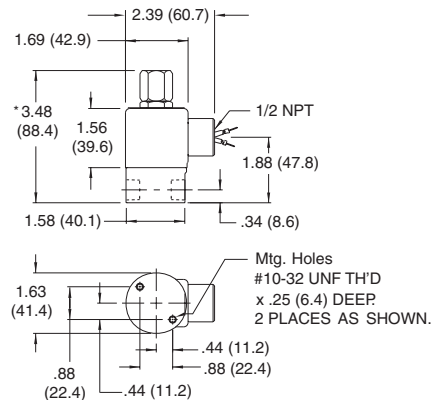
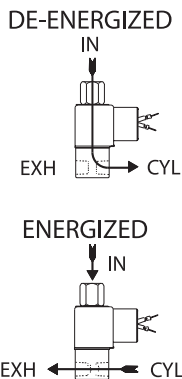
Body: Stainless steel (standard) - Ser. 20, 50, & 70
 Brass (standard) - Ser. 30
 Brass (optional) - Ser. 20, 50, & 70 - Consult factory
 Aluminum (optional) - Ser. 50 & 70 - Consult factory

Orifice Diameter: See catalog listings

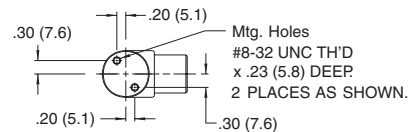
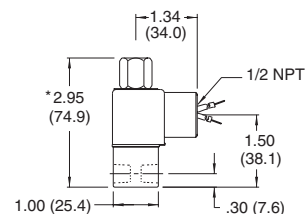
Porting: See catalog listings

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

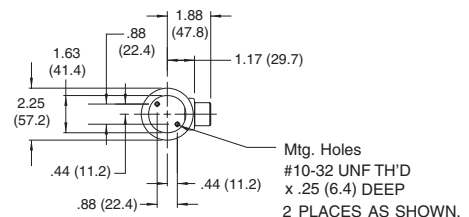
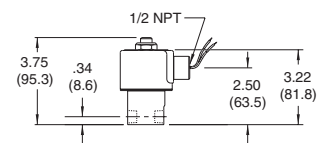
Listings: Most valves are U.L. and CSA listed - Consult factory for specifics.



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



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



OPTIONS AVAILABLE: – 3 WAY NORMALLY OPEN 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 54

DOUBLE AUTOMOTIVE
 All Models except 54

“AN” CONNECTOR
 All Models

SPLICE BOX HOUSING
 All Models

JIC HOUSING
 Model 24

YOKE
 All Models

MOUNTING BRACKET
 All Models

* Not available over 250 psi

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 24, 34, 54

HIGH TEMPERATURE MOLDED COIL
 All Models

EUROPEAN DIN STYLE COIL
 Models 24, 34

BODY OPTIONS—see page 80

METERING TO 1/8" ORIFICE
 Models 24, 34, 54

METERING TO 3/16" ORIFICE
 Model 74

MANUAL OVERRIDE
 24*, 74

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

PORT OPTIONS—see page 81

BOTTOM ORIFICE PORT
 All Models

BOTTOM CAVITY PORT
 All Models

PORT 90° LEFT
 All Models except 54

MANIFOLD MOUNT
 All Models

FLANGE MOUNT
 Models 24, 74

PORT 90° RIGHT
 All Models except 54

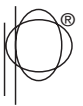
MISCELLANEOUS OPTIONS—see page 76

SILVER SHADING RING
 All Models

ALUMINUM SHADING RING
 All Models

BUILT IN MUFFLER
 All Models



UNIVERSAL MOUNTING BRACKET
 Models 24, 34, 54



**PETER
PAUL**



SOLENOID VALVES . . .

SERIES 20—MODEL 24



+MAX. OPER. PRESS. DIFF.		ORIFICE SIZE		CV FACTOR		VALVE NUMBER				REPAIR PACK WT. 0.25	 3-WAY NORMALLY OPEN GROMMET	 3-WAY NORMALLY OPEN CONDUIT
AC	DC	INLET	EXH.	INLET	EXH.	GROMMET HOUSING Grommet Valve WT. 1.06 LB. 1/4 NPT PORTS	CONDUIT HOUSING Conduit Valve WT. 1.13 LB 1/4 NPT PORTS					
400	400	1/32	1/32	.024	.024	24GG7XGV	24GG9ZGV	24GG7XCV	24GG9ZCV	K24GGX		
150 (225)	150	3/64	1/16	.052	.095	24HJ7XGV	24HJ9ZGV	24HJ7XCV	24HJ9ZCV	K24HJX		
100 (150)	100	1/16	1/16	.095	.095	24JJ7XGV	24JJ9ZGV	24JJ7XCV	24JJ9ZCV	K24JJX		
100 (150)	100	1/16	3/32	.095	.156	24JK7XGV	24JK9ZGV ✓	24JK7XCV	24JK9ZCV	K24JKX		
100 (125)	100	1/16	1/8	.095	.284	24JN7XGV	24JN9ZGV	24JN7XCV	24JN9ZCV	K24JNX		
75 (90)	75	3/32	1/8	.156	.284	24KN7XGV	24KN9ZGV	24KN7XCV	24KN9ZCV	K24KNX		
30	30	1/8	1/8	.201	.284	°24NN7XGV	°24NN9ZGV	°24NN7XCV	°24NN9ZCV	K24NNX		

°VALVES WITH 1/8 SLEEVE ORIFICE ARE UL LISTED ONLY



SERIES 30—MODEL 34

+MAX. OPER. PRESS. DIFF.		ORIFICE SIZE		CV FACTOR		VALVE NUMBER				REPAIR PACK WT. 0.25	 3-WAY NORMALLY OPEN GROMMET	 3-WAY NORMALLY OPEN CONDUIT
AC	DC	INLET	EXH.	INLET	EXH.	GROMMET HOUSING Grommet Valve WT. 0.75 LB. 1/4 NPT PORTS	CONDUIT HOUSING Conduit Valve WT. 0.81 LB 1/4 NPT PORTS					
300	300	1/32	1/32	.024	.024	34GG5XGV	34GG5XCV			K34GGX		
175	175	3/64	1/16	.052	.095	34HJ5XGV	34HJ5XCV ✓			K34HJX		
100	100	1/16	3/32	.095	.160	34JK5XGV	34JK5XCV			K34JKX		
60	60	3/32	1/8	.160	.275	34KN5XGV	34KN5XCV			K34KNX		

SERIES 50—MODEL 54

+MAX. OPER. PRESS. DIFF.		ORIFICE SIZE		CV FACTOR		VALVE NUMBER				REPAIR PACK WT. 0.25	 3-WAY NORMALLY OPEN GROMMET	 3-WAY NORMALLY OPEN CONDUIT
AC	DC	INLET	EXH.	INLET	EXH.	GROMMET HOUSING Grommet Valve WT. 0.38 LB. 1/4 NPT PORTS	CONDUIT HOUSING Conduit Valve WT. 0.44 LB 1/4 NPT PORTS					
150	150	1/32	1/32	.020	.022	54GG8XGB	54GG8XCB			K54GGX		
125	125	3/64	3/64	.048	.055	54HH8XGB ✓	54HH8XCB			K54HHX		
100	75	1/16	1/16	.075	.075	54JJ8XGB	54JJ8XCB			K54JJX		
75	45	1/16	3/32	.075	.156	54JK8XGB	54JK8XCB			K54JKX		
50	50	3/32	3/32	.150	.156	54KK8XGB	54KK8XCB			K54KKX		
40	25	3/32	1/8	.150	.230	54KN8XGB	54KN8XCB			K54KNX		

SERIES 70—MODEL 74

+MAX. OPER. PRESS. DIFF.		ORIFICE SIZE		CV FACTOR		VALVE NUMBER				REPAIR PACK WT. 0.25	 3-WAY NORMALLY OPEN GROMMET	 3-WAY NORMALLY OPEN CONDUIT
AC	DC	INLET	EXH.	INLET	EXH.	GROMMET HOUSING Grommet Valve WT. 2.00 LB. 1/4 NPT PORTS	CONDUIT HOUSING Conduit Valve WT. 2.06 LB 1/4 NPT PORTS					
350	350	1/16	1/16	.09	.09	74JJ9ZGV	74JJ9ZCV			K74JJX		
250	250	3/32	3/32	.22	.22	74KK9ZGV	74KK9ZCV			K74KKX		
175	175	1/8	1/8	.35	.35	74NN9ZGV	74NN9ZCV			K74NNX		
125	125	5/32	5/32	.45	.45	74009ZGV	74009ZCV			K7400X		
100	100	3/16	3/16	.50	.50	74PP9ZGV ✓	74PP9ZCV			K74PPX		

WHEN ORDERING VALVES OR REPAIR PACKS ADD VOLTAGE AND FREQUENCY TO COMPLETE VALVE NUMBER.
 EXAMPLES: VALVE (74KK9ZGV-120/60) REPAIR PACK (K74KKX-AC) See repair pack reference page 88

†Ratings in brackets are optional extended ratings; consult factory

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