

3-WAY NORMALLY CLOSED Piped Exhaust

SPECIFICATIONS—3-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. (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

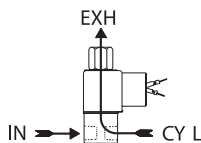
Orifice Diameter: See catalog listings

Porting: See catalog listings

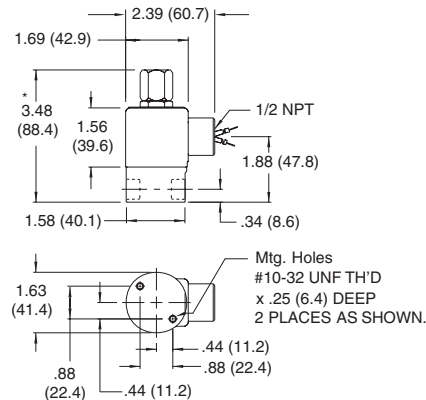
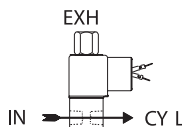
Housing: Grommet & 1/2" NPT conduit - many options available.

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

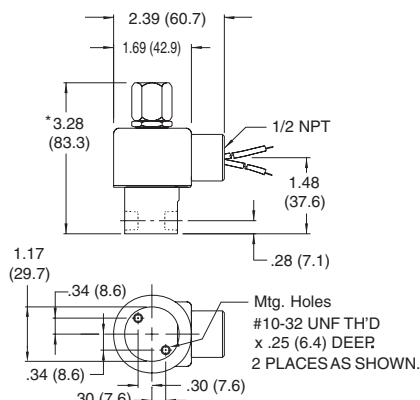
DE-ENERGIZED



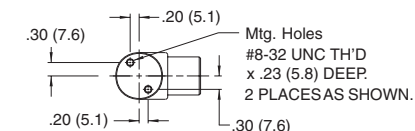
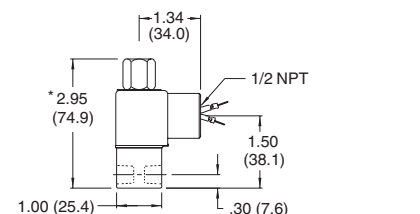
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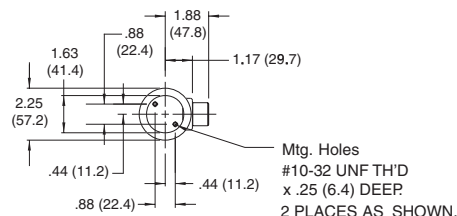
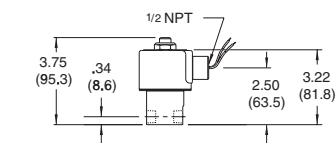
*ADD .165 (4.2) FOR SPADE TERMINAL COIL OPTION



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



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



OPTIONS AVAILABLE: –

3 WAY NORMALLY CLOSED PIPED EXHAUST 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 53

DOUBLE AUTOMOTIVE

All Models except 53

"AN" CONNECTOR

All Models

SPLICE BOX HOUSING

All Models

JIC HOUSING

Model 23

YOKE

All Models

MOUNTING BRACKET

All Models

COIL OPTIONS—see page 79

MOLDED COIL

All Models

POTTED COIL & HOUSING

All Models

THIRD WIRE GROUND

All conduit Models

SPADE TERMINAL COIL - MOLDED

Models 23, 33, 53

HIGH TEMPERATURE MOLDED COIL

All Models

EUROPEAN KIN STYLE COIL

Models 23, 33

BODY OPTIONS—see page 80

METERING TO 1/8 ORIFICE

Model 23, 33, 53

METERING TO 1/4 ORIFICE

Model 23, 73

METERED BYPASS

Consult Factory
Model 23

MANUAL OVERRIDE

Model 23*, 73**

METERED EXH. PORT

Model 23, 33

PORT OPTIONS—see page 81

BOTTOM ORIFICE PORT

All Models

BOTTOM CAVITY PORT

Model 23, 33, 53, 73**

PORT 90° LEFT

All Models except 53

MANIFOLD MOUNT

Model 23**, 33, 53, 73

FLANGE MOUNT

Models 23**, 73

PORT 90° RIGHT

All Models except 53

MISCELLANEOUS OPTIONS—see page 76

SILVER SHADING RING

All Models

ALUMINUM SHADING RING

All Models

BUILT IN MUFFLER

All Models

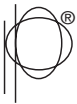
UNIVERSAL MOUNTING BRACKET

Models 23, 33, 53

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

* Not available over 250 psi

** Not available in 1/4" orifice

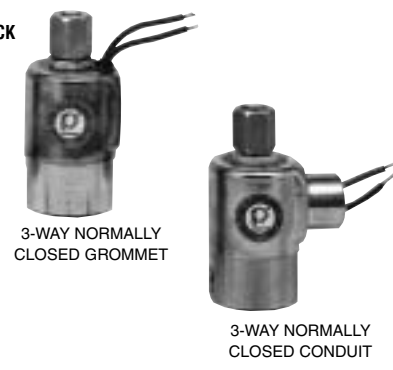


PETER PAUL

SOLENOID VALVES . . .

SERIES 20—MODEL 23

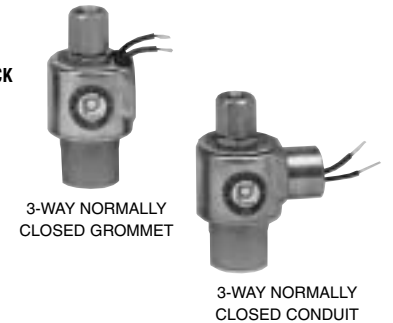
+MAX. OPER. PRESS. DIFF.		ORIFICE SIZE		CV FACTOR		VALVE NUMBER		REPAIR PACK WT. 0.25
AC	DC	INLET	EXH.	INLET	EXH.	GROMMET HOUSING	CONDUIT HOUSING	
						Grommet Valve WT. 1.13 LB.	Conduit Valve WT. 1.19 LB	
						1/8 NPT PORTS	1/4 NPT PORTS	1/8 NPT PORTS
400	400	1/32	1/32	.024	.024	23GG7XGV	23GG9ZGV	K23GGX
150 (200)	150 (200)	3/64	1/16	.052	.095	23HJ7XGV	23HJ9ZGV	K23HJX
100 (135)	100 (135)	1/16	1/16	.095	.095	23JJ7XGV	23JJ9ZGV	K23JJX
100 (135)	100 (135)	1/16	3/32	.095	.156	23JK7XGV	23JK9ZGV ✓	K23JKX
75 (100)	75 (100)	3/32	3/32	.156	.156	23KK7XGV	23KK9ZGV	K23KKX
50 (70)	50 (70)	1/8	3/32	.284	.156	23NK7XGV	23NK9ZGV	K23NKX
35 (40)	35 (40)	1/8	1/8	.284	.201	*23NN7XGV	*23NN9ZGV	K23NNX
20	20	3/16	3/32	.500	.156	23PK7XGV	23PK9ZGV	K23PKX
20	20	3/16	1/8	.500	.201	*23PN7XGV	*23PN9ZGV	K23PNX
15	-	1/4	3/32	.700	.156	23RK7XGV	23RK9ZGV	K23RKX
15	-	1/4	1/8	.700	.201	*23RN7XGV	*23RN9ZGV	K23RNX



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

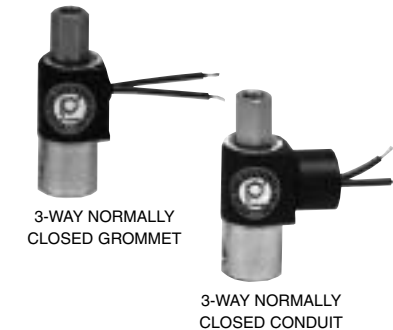
SERIES 30—MODEL 33

+MAX. OPER. PRESS. DIFF.		ORIFICE SIZE		CV FACTOR		VALVE NUMBER		REPAIR PACK WT. 0.25
AC	DC	INLET	EXH.	INLET	EXH.	GROMMET HOUSING	CONDUIT HOUSING	
						Grommet Valve WT. 0.75 LB.	Conduit Valve WT. 0.81 LB	
						1/8 NPT PORTS	1/8 NPT PORTS	
300	300	1/32	1/32	.024	.024	33GG5XGV	33GG5XCV	K33GGX
175	175	3/64	1/16	.052	.095	33HJ5XGV	33HJ5XCV	K33HJX
125	125	1/16	1/16	.095	.095	33JJ5XGV	33JJ5XCV ✓	K33JJX
75	75	3/32	3/32	.160	.160	33KK5XGV	33KK5XCV	K33KKX
50	50	1/8	3/32	.275	.160	33NK5XGV	33NK5XCV	K33NKX



SERIES 50—MODEL 53

+MAX. OPER. PRESS. DIFF.		ORIFICE SIZE		CV FACTOR		VALVE NUMBER		REPAIR PACK WT. 0.25
AC	DC	INLET	EXH.	INLET	EXH.	GROMMET HOUSING	CONDUIT HOUSING	
						Grommet Valve WT. 0.38 LB.	Conduit Valve WT. 0.44 LB	
						1/8 NPT PORTS	1/8 NPT PORTS	
200	200	1/32	1/32	.022	.020	53GG8XGB	53GG8XCB	K53GGX
150	150	3/64	3/64	.055	.048	53HH8XGB	53HH8XCB	K53HHX
150	150	3/64	1/16	.055	.075	53HJ8XGB	53HJ8XCB	K53HJX
100	100	1/16	1/16	.075	.075	53JJ8XGB ✓	53JJ8XCB	K53JJX
60	60	3/32	1/16	.156	.075	53KJ8XGB	53KJ8XCB	K53KJX
50	50	3/32	3/32	.156	.150	53KK8XGB	53KK8XCB	K53KKX
30	30	1/8	1/16	.230	.075	53NJ8XGB	53NJ8XCB	K53NJX
30	30	1/8	3/32	.230	.150	53NK8XGB	53NK8XCB	K53NKX



SERIES 70—MODEL 73

+MAX. OPER. PRESS. DIFF.		ORIFICE SIZE		CV FACTOR		VALVE NUMBER		REPAIR PACK WT. 0.25
AC	DC	INLET	EXH.	INLET	EXH.	GROMMET HOUSING	CONDUIT HOUSING	
						Grommet Valve WT. 2.00 LB.	Conduit Valve WT. 2.06 LB	
						1/4 NPT PORTS	1/4 NPT PORTS	
350	350	1/16	1/16	.09	.09	73JJ9ZGV	73JJ9ZCV	K73JJX
250	250	3/32	3/32	.22	.22	73KK9ZGV	73KK9ZCV	K73KKX
175	175	1/8	1/8	.35	.35	73NN9ZGV	73NN9ZCV	K73NNX
125	125	5/32	5/32	.45	.45	73OO9ZGV ✓	73OO9ZCV	K73OOX
100	100	3/16	3/16	.50	.50	73PP9ZGV	73PP9ZCV	K73PPX
50	50	1/4	3/16	.78	.50	73RP9ZGV	73RP9ZCV	K73RPX



WHEN ORDERING VALVES OR REPAIR PACKS ADD VOLTAGE AND FREQUENCY TO COMPLETE VALVE NUMBER.
 EXAMPLES: VALVE (73KK9ZGV-120/60) REPAIR PACK (K73KKX-AC) See repair pack reference page 82

†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.