LOW WATT VALUES



Note: This valve also available as an operator. Refer to following page.

Series 50 LW >> Model LW53

Low Wattage —3-Way Normally Closed — Exhaust to Atmosphere

General purpose for pneumatic and hydraulic applications. The versatility of these valves is increased to include the handling of hot air, hot water, refrigerants and many other media, by the use of different seals. Air and other fluids compatible with standard Buna seals. Hot water, steam, gasoline, oils, some hydraulic fluids, and many media require special seal materials.

- General purpose valve with reduced power consumption.
- · Increased versatility.
- For pneumatic and hydraulic application.

OPERATING CONDITIONS

Media: Air and other fluids compatible with standard Buna seals. Hot water, steam, gasoline, oils, some hydraulic fluids, and many media require special seal materials. (Series 50 pressure ratings may change due to the viscosity of the liquid.)*

Valve Temperature Range: Standard Valves - 0°F (-18°C) to 140°F (60°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: 12 to 370V AC 60 HZ, and 10.5 to 345V AC 50 HZ. — 6.0 to 120V DC

Nominal Power: AC - 2.5 Watts DC - 2.5 Watts

Coil Construction: Molded and potted Class F. (Class H optional)

Typical Response Time on Air: 4 - 16 Milliseconds

Operating Speed: Up to 600 CPM

Duty Cycle: Continuous

MECHANICAL CHARACTERISTICS

Body: Stainless Steel (Std.), Brass (Opt.) or Aluminum (Opt.)

Internal Components: Stainless Steel

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

Orifice Diameter: See table on proceeding page.

Porting: 1/8" NPT (Std.)

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

Listings: Most valves are UL and CSA listed — consult factory.

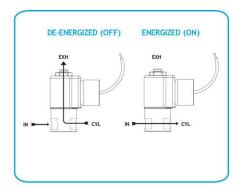
Life Expectancy: Millions of cycles, depending on application, lubrication, etc.

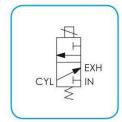
Valve Weight: Grommet Valve: 0.38 lbs, Conduit Valve: 0.44 lbs

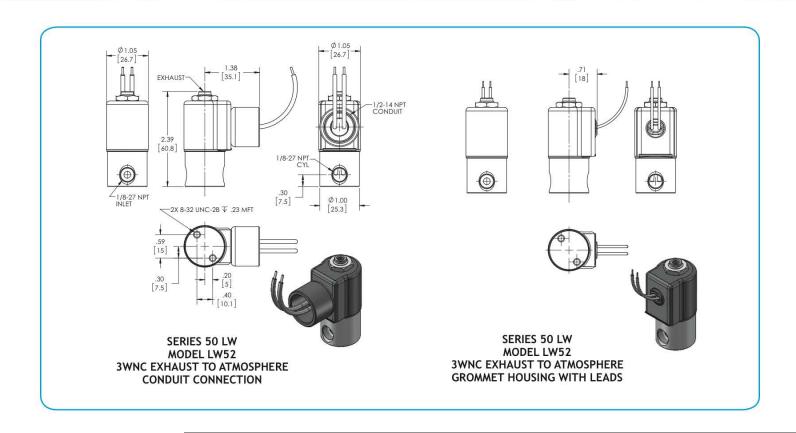
Repair Packs: See table on proceeding page.

Options: Alternate Port Locations, Metering and Alternate Elastomers*

 st Consult representative or factory for options and specifications.







VALVE SPECIFICATIONS

MAX. OPER.	PRESS. DIF	F.						
GAS LIQUID		UID	ORIFICE SIZE		CV FACTOR		VALVE NUMBER	
DC	AC	DC	N.C.	N.O.	N.C.	N.O.	GROMMET 1/8 NPT	CONDUIT 1/8 NPT
135	215	135	1/32	1/32	.022	.022	LW53GG8DGM	LW53GG8DCM
120	120	65	1/32	3/64	.022	.048	LW53GH8DGM	LW53GH8DCM
50	40	30	1/32	1/16	.022	.075	LW53GJ8DGM	LW53GJ8DCM
35	30	20	1/32	5/64	.022	.134	LW53GV8DGM	LW53GV8DCM
30	25	15	1/32	3/32	.022	.156	LW53GK8DGM	LW53GK8DCM
70	120	65	3/64	3/64	.055	.048	LW53HH8DGM	LW53HH8DCM
50	40	30	3/64	1/16	.055	.075	LW53HJ8DGM	LW53HJ8DCM
35	30	20	3/64	5/64	.055	.134	LW53HV8DGM	LW53HV8DCM
30	25	15	3/64	3/32	.055	.156	LW53HK8DGM	LW53HK8DCM
40	40	30	1/16	1/16	.075	.075	LW53JJ8DGM	LW53JJ8DCM
35	30	20	1/16	5/64	.075	.134	LW53JV8DGM	LW53JV8DCM
30	25	15	1/16	3/32	.075	.156	LW53JK8DGM	LW53JK8DCM
30	30	20	5/64	5/64	.134	.134	LW53VV8DGM	LW53VV8DCM
30	25	15	5/64	3/32	.134	.156	LW53VK8DGM	LW53VK8DCM
20	25	15	3/32	3/32	.150	.156	LW53KK8DGM	LW53KK8DCM
	DC 135 120 50 35 30 70 50 35 30 40 35 30 30 30 30 30	DC AC 135 215 120 120 50 40 35 30 30 25 70 120 50 40 35 30 30 25 40 40 35 30 30 25 40 40 35 30 30 25 40 40 35 30 30 25 40 40 35 30 30 25	DC AC DC 135 215 135 120 120 65 50 40 30 35 30 20 30 25 15 70 120 65 50 40 30 35 30 20 30 25 15 40 40 30 35 30 20 30 25 15 30 30 20 30 25 15 30 20 25 30 25 15	GAS LIQUID ORIFIC DC AC DC N.C. 135 215 135 1/32 120 120 65 1/32 50 40 30 1/32 35 30 20 1/32 30 25 15 1/32 70 120 65 3/64 50 40 30 3/64 35 30 20 3/64 35 30 20 3/64 30 25 15 3/64 40 40 30 1/16 35 30 20 1/16 30 30 25 15 1/16 30 30 25 5/64 30 25 15 5/64	AC DC N.C. N.O. 135 215 135 1/32 1/32 120 120 65 1/32 3/64 50 40 30 1/32 1/16 35 30 20 1/32 5/64 30 25 15 1/32 3/32 70 120 65 3/64 3/64 50 40 30 3/64 1/16 35 30 20 3/64 5/64 30 25 15 3/64 3/32 40 40 30 3/64 5/64 30 25 15 3/64 3/32 40 40 30 1/16 1/16 35 30 20 1/16 5/64 30 25 15 1/16 3/32 30 30 20 5/64 5/64 30 25 15 1/16 3/32 30 30 20 5/64 5/64 30 25 15 5/64 3/32	GAS LIQUID ORIFICE SIZE CV FAC DC AC DC N.C. N.O. N.C. 135 215 135 1/32 1/32 .022 120 120 65 1/32 3/64 .022 50 40 30 1/32 1/16 .022 35 30 20 1/32 5/64 .022 30 25 15 1/32 3/32 .022 70 120 65 3/64 3/64 .055 50 40 30 3/64 1/16 .055 35 30 20 3/64 5/64 .055 30 25 15 3/64 3/32 .055 40 40 30 1/16 1/16 .075 35 30 20 1/16 1/16 .075 35 30 20 1/16 5/64 .075 35	DC AC DC N.C. N.O. N.C. N.O. 135 215 135 1/32 1/32 .022 .022 120 120 65 1/32 3/64 .022 .048 50 40 30 1/32 1/16 .022 .075 35 30 20 1/32 5/64 .022 .134 30 25 15 1/32 3/32 .022 .156 70 120 65 3/64 3/64 .055 .048 50 40 30 3/64 1/16 .055 .075 35 30 20 3/64 3/64 .055 .048 50 40 30 3/64 1/16 .055 .075 35 30 20 3/64 5/64 .055 .134 30 25 15 3/64 3/32 .055 .156 40	GAS LIQUID ORIFICE SIZE CV FACTOR VALVE NUMBER DC AC DC N.C. N.O. N.C. N.O. GROMMET 1/8 NPT 135 215 135 1/32 1/32 .022 .022 LW53GG8DGM 120 120 65 1/32 3/64 .022 .048 LW53GH8DGM 50 40 30 1/32 1/16 .022 .075 LW53GJ8DGM 35 30 20 1/32 5/64 .022 .134 LW53GV8DGM 30 25 15 1/32 3/32 .022 .156 LW53GK8DGM 70 120 65 3/64 3/64 .055 .048 LW53HH8DGM 50 40 30 3/64 1/16 .055 .075 LW53HJ8DGM 35 30 20 3/64 5/64 .055 .134 LW53HV8DGM 30 25 15 3/64 3/32 .0

ORDERING INFORMATION:

WHEN ORDERING VALVES OR REPAIR PACKS ADD VOLTAGE AND FREQUENCY TO COMPLETE VALVE NUMBER. EXAMPLES: VALVE (LW53JJ8DGML 120/60) REPAIR PACK (KLW53JJD AC)

WHEN ORDERING OPERATORS ADD THE LETTER "O" TO THE FRONT OF THE VALVE NUMBER, REPLACE BODY PORT NUMBER WITH THE LETTER "D": EXAMPLE: OPERATOR (OLW53JJ8DGML 120/60)