

Air Line Accessories

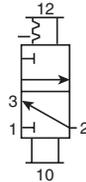
LV Series Valves

Operating Pressure Range

0 to 300 PSIG (0 to 2068 kPa)

Operating Temperature Range (Ambient)

32°F to 175°F (0 to 80°C)

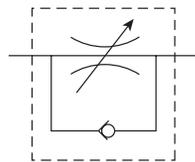


Port size inlet & outlet (port 1 & 2)	Port size exhaust (port 3)	Part No.
3/8	3/4	LV3N6B
1/2	3/4	LV4N6B
3/4	3/4	LV6N6B
3/4	1-1/4	LV6NAB
1	1-1/4	LV8NAB
1-1/4	1-1/4	LVANAB

Silencers sold separately

Micrometer Flow Control Valves

"337" Series 1/8" to 3" Port



Component Materials

Body Material: Brass
Needle: Stainless steel
Check Seal: Urethane
Needle Seals: Buna N (Viton optional)

Knob: Aluminum
Spring: Stainless steel
Retainer: Zinc-plated steel
Set Screw: Steel

The "337" Series flow control valves are manufactured with a fine tapered needle providing precise flow control, even at low flow rates. The perimeter of the adjustment knob features numerical micrometer position markings providing a visual indication of the setting. Once the desired flow is selected, a set screw can be tightened to maintain the setting.

These valves are available with NPTF ports in 1/8", 1/4", 3/8", 1/2" and 3/4" sizes. This series is recommended for pneumatic service.

Valve Specifications

Maximum Operating Pressure
 250 PSI (1725 kPa)

Cracking pressure for return check poppet –
 1 to 2 PSIG (7 to 14 kPa)

Operating Temperature
 Standard: 0° to 180°F (-18° to 82°C)

Extended temperature: 0° to 300°F (-18° to 150°C)
 (consult factory)

* Ambient temperatures below freezing require moisture-free air. Ambient temperatures below freezing and above 180°F require lubricants especially selected for suitability at these temperatures. Pneumatic valves should be used with filtered and lubricated air.

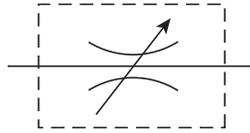
Port Size	Model	Flow (SCFM†)	
		Adj.	Free Flow
1/8" NPT	00337 1000	15	32
1/4" NPT	00337 1001	28	75
3/8" NPT	00337 1002	59	139
1/2" NPT	00337 1003	126	183
3/4" NPT	00337 1004	140	327

† At 100 PSIG (690 kPa) inlet pressure with full pressure drop.

Air Line Accessories

Needle Valves

"338" Series 1/8" to 3/4" Port



Component Materials

Body Material: Brass

Internal Components: Stainless steel

Seals: Nitrile (Viton® optional)

The "338" Series needle valves bi-directionally meter the flow of air through the valve.

This series features a fine tapered needle providing precise flow of air in both directions. Numerical micrometer position markings are stamped on the perimeter of the adjustment knob which provide a visual indication of the setting. Once the desired flow is selected, a set screw can be tightened to maintain the setting.

These valves are available with NPTF ports in 1/8", 1/4", 3/8", 1/2" and 3/4" sizes. This series is recommended for pneumatic service.

Valve Specifications

Maximum Operating Pressure

250 PSIG (1725 kPa)

Operating Temperature

Standard: 0° to 180°F (-18° to 82°C)

Extended Temperature: 0° to 300°F (-18° to 150°C) optional

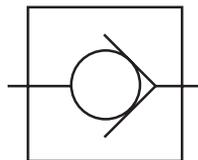
* Ambient temperatures below freezing require moisture-free air. Ambient temperatures below freezing and above 180°F require lubricants especially selected for suitability at these temperatures. Pneumatic valves should be used with filtered and lubricated air.

Port Size	Model	Flow† (SCFM)
1/8" NPT	W 00338 1100	15
1/4" NPT	W 00338 1101	28
3/8" NPT	W 00338 1102	59
1/2" NPT	W 00338 1103	126
3/4" NPT	W 00338 1104	140

† At 100 PSIG (690 kPa) inlet pressure with full pressure drop.

Check Valves

"339" Series 1/8" to 3/4" Port



"339" Series check valves allow free flow in one direction and provide positive checked (zero flow) in the reverse direction. These valves are available with NPTF ports in 1/8", 1/4", 3/8", 1/2" and 3/4" sizes. This series is recommended for pneumatic service.

Valve Specifications

Maximum Operating Pressure

250 PSIG (1725 kPa)

Cracking pressure: 1 to 2 PSIG (7 to 14 kPa)

Operating Temperature

Standard: 0° to 180°F (-18° to 80°C)

Extended Temperature: 0° to 300°F (-18° to 150°C)

Component Materials

Body Material: Brass

Internal Components: Brass / Stainless steel / Zinc-plated steel

Seals: Urethane (standard),
Viton® (optional)

Port Size	Model	Flow† (SCFM)
1/8" NPT	W 00339 3000	35
1/4" NPT	W 00339 3001	75
3/8" NPT	W 00339 3002	143
1/2" NPT	W 00339 3003	162
3/4" NPT	W 00339 3004	323

† At 100 PSIG (690 kPa) inlet pressure with full pressure drop.

Air Line Accessories

BSL Series - Sintered Bronze Muffler/Filters



Maximum Operating Pressure:
250 PSIG (1725 kPa) – air

Operating Temperature:
0° to 300°F (-18° to 150° C)



Muffler/filters effectively reduce air exhaust noises to an industry accepted level with minimum flow restriction. They protect valves, impact wrenches, screwdrivers and other air tools by preventing dirt and other foreign matter from entering the system. Non-corrosive, they can be cleaned with many common solvents.

Pipe Thread	Model Number
1/8" NPT	BSL-N1
1/4" NPT	BSL-N2
3/8" NPT	BSL-N3
1/2" NPT	BSL-N4

Breather Vents



Maximum Operating Pressure:
250 PSIG (1725 kPa) – air

Operating Temperature:
0° to 300°F (-18° to 150° C)

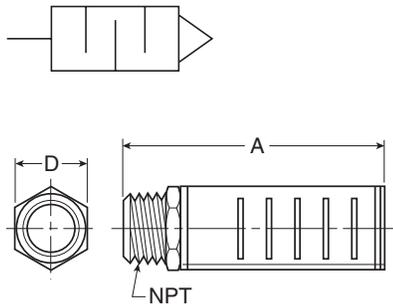
NOTE: Breather vents should not be used as exhaust mufflers.

* Ambient temperatures below freezing require moisture-free air. Ambient temperatures below freezing and above 180°F require lubricants especially selected for suitability at these temperatures. Pneumatic valves should be used with filtered and lubricated air.

These low silhouette versions of the muffler/filter are useful where space is a problem and/or to prevent contamination. Use for vacuum relief or pressure equalization in gear boxes, oil tanks, reservoirs, etc. Non-corrosive.

Pipe Thread	Model Number
1/8" NPT	BSLM-N1
1/4" NPT	BSLM-N2
3/8" NPT	BSLM-N3
1/2" NPT	BSLM-N4

ES Series Silencer



This silencer is designed to give superior performance in noise control with a minimum effect on air efficiency. "Trimline" design allows location in the tightest places without extra plumbing and fittings. Fits directly into the exhaust port of more than 90% of present commercial valves. Slotted body permits rapid discharge of air without undesirable back pressure. Unique nylon screen element resists dirt buildup or clogging.

Maximum Operating Pressure:
250 PSIG (1725 kPa) – air

Operating Temperature:
0° to 300°F (-18° to 150° C)

Pipe Thread	Model Number	Dimensions (inch)		Flow SCFM @ 100 PSIG (700 kPa) inlet
		A	D	
1/8" NPT	ES12MC	2.31	0.68	115
1/4" NPT	ES25MC	2.41	0.97	129
3/8" NPT	ES37MC	3.06	1.38	219
1/2" NPT	ES50MC	3.19	1.38	549
3/4" NPT	ES75MC	4.69	1.62	893
1" NPT	ES100MC	4.69	1.62	1013
1 1/4" NPT	ES125MC	5.69	–	1486
1 1/2" NPT	ES150MC	5.69	–	1580

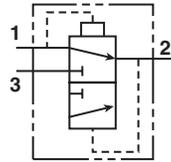
Note: For conversion factors see page 54



Air Line Accessories

Shuttle Valves

1/8" to 3/8" Ports



Shuttle valves determine a single pneumatic output from two separate inputs. If pressure is applied to both ports simultaneously, the valve will select the port with the high pressure.

Valve Specifications

Maximum Operating Pressure:

200 PSIG Maximum (1725 kPa)
3 PSIG (20 kPa) Minimum: Differential pressure

Operating Temperature:

0° to 160°F* (-18° to 70°C)

Component Materials

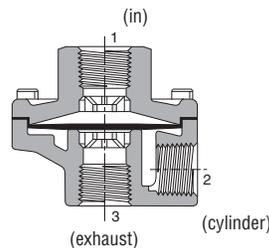
Body Material: Aluminum
Internal Components: Aluminum
Seals: Nitrile

* Ambient temperatures below freezing require moisture-free air. Ambient temperatures below freezing and above 180°F require lubricants especially selected for suitability at these temperatures. Pneumatic valves should be used with filtered and lubricated air.

Port Size	Model Number	Flow (C _v)
1/8" NPT	N164 1001	0.32
1/4" NPT	N164 2003	1.65
3/8" NPT	N164 3003	2.02

Quick Exhaust & Shuttle Valves

"OR" Series - 1/8" thru 3/4" Ports



Quick exhaust valves provide rapid exhaust of control air when placed between control valve and actuator. They can also be used as shuttle valves. Diaphragm materials are available in urethane, Nitrile, fluorocarbon, and PTFE to meet a wide variety of operating conditions.

Valve Specifications

Operating Pressure (Air)

Maximum: 150 PSIG (1000 kPa)
Minimum: 3 PSIG (20 kPa)

Operating Temperature:

Urethane: 0° to 180°F* (-18° to 80°C)
Viton®: 0°F to 400°F (-18° to 200°C)
Teflon®: 0°F to 500°F (-18° to 260°C)

Component Materials

Body Material: Die cast aluminum
Seals: Nitrile with urethane
Diaphragm: Standard – Urethane
Optional – Viton®, Teflon®,
or Nitrile (depending on size)

Note: This valve can be used as

1. Quick exhaust valve
2. Shuttle valve
3. Positive seal check valve

Please consult Wainbee (1-888-924-6233) for application information.

* Ambient temperatures below freezing require moisture-free air. Ambient temperatures below freezing and above 180°F require lubricants especially selected for suitability at these temperatures. Pneumatic valves should be used with filtered and lubricated air.

Standard Urethane Diaphragm

Port NPT			Flow (SCFM) [†]	Model Number
1	2	3		NPTF
1/8"	1/8"	1/8"	70	OR12B
	1/8"	1/4"	70	OR12NB
1/4"	1/4"	1/4"	90	OR25B
	1/4"	3/8"	150	OR25NB
	3/8"	3/8"	240	OR25PB
3/8"	3/8"	3/8"	240	OR37B
1/2"	1/2"	1/2"	450	OR50B
3/4"	3/4"	3/4"	550	OR75B

[†] At 100 PSIG (690 kPa) inlet pressure with full pressure drop.

Note: For conversion factors see page 54

