



Air Preparation Products Airline Accessories	
Drains	N2-N4
Lockout Valves	N5-N11
AirGuard Protection System	N12-N13
Mufflers	N14-N19



Drains

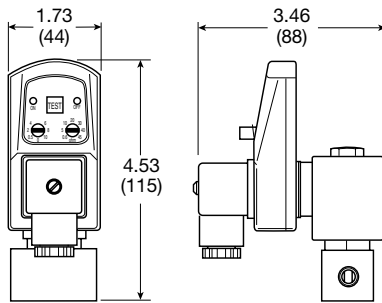
Automatic Electrical Drain Valve - WDV3-G

The WDV3 Electrical Drain is designed to remove condensate from compressors, compressed air dryers and receivers up to any size, type or manufacturer.



Benefits

- Does not air-lock during operation
- Compressed air systems up to any size
- The direct acting valve is serviceable
- Suitable for all types of compressors
- Test (micro-switch) feature
- High time cycle accuracy
- Large (4.5mm) valve orifice



Operating information

Operating pressure:	230 psig (16 bar)
Ambient operating temperature:	34°F to 130°F (1.1°C to 54°C)
Voltages:	115VAC, 230/50-60Hz, 24VDC
Coil insulation:	Class H, 340°F (171.1°C)
Current rating:	4mA maximum
Timer –	
Open time	.5 to 10 sec., adjustable
Cycle time	.5 to 45 min., adjustable

Material specifications

Valve body	Brass / stainless steel
Enclosure (IP65 / NEMA 4)	ABS plastic
Internal parts	Brass / stainless steel
Valve seals	FPM (Fluorocarbon)

Automatic Electrical Drain Valve

Port Size	Primary Voltage	Weight (kg)	Model Number
1/4	120VAC	1.8 (0.8 kg)	WDV3-G12BL
1/4	230VAC	1.8 (0.8 kg)	WDV3-G22BL
3/8	120VAC	1.8 (0.8 kg)	WDV3-G13BL
3/8	230VAC	1.8 (0.8 kg)	WDV3-G23BL
1/2	120VAC	1.8 (0.8 kg)	WDV3-G14BL
1/2	230VAC	1.8 (0.8 kg)	WDV3-G24BL
1/2	24VDC	1.8 (0.8 kg)	WDV3-G34BL



Drains

Drains

Lockout
Valves

AirGuard

Mufflers

Ball Valve /
Plug Valves

Quick Cou-
plings

Hose
Products

Fittings

N

Airline Accessories

ED Zero Air Loss Condensate Drains

Zero air loss condensate drains are designed for economical removal of unwanted water, oil emulsions, and other liquids. These drains will only open when liquid is present and will not allow any compressed air to escape from the system.



Operating information

Maximum pressure:	232 psig (16 bar)
Ambient operating temperature:	35°F to 140°F (1.6°C to 60°C)
Voltages optional – NPT	115/50-60Hz, standard
BSPP ports	230/50-60Hz & 24VDC

Zero Air Loss Condensate Drains

Port Size (NPT)	Compressor Aftercooler (scfm)*	Capacity Refrigeration Dryer (scfm)**	Filter (scfm)	Drain Capacity per Day (gal/liter)	Model Number	Service Kit
1 @ 3/8 (in), 1 @ 3/8 (out)	—	—	424	6 (22.7)	ED3002N115-K	SKED3000N115
1 @ 1/2 (in), 1 @ 3/8 (out)	141	282	1,413	13 (49.2)	ED3004N115-K	SKED3000N115
2 @ 1/2 (in), 1 @ 3/8 (out)	247	494	2,472	23 (87.1)	ED3007N115-K	SKED3000N115
2 @ 1/2 (in), 1 @ 3/8 (out)	1,059	2,119	10,594	100 (378.5)	ED3030N115-K	SKED3000N115
2 @ 1/2 (in), 1 @ 3/8 (out)	3,532	7,063	35,315	330 (1,249.2)	ED3100N115-K	SKED3000N115

* Based on 100 PSI working pressure, air compressor inlet at 77°F (25°C) at 60% RH, air discharge temperature of 95°F (35°C) following the aftercooler, pressure dewpoint of 37°F (2.8°C) after the refrigerated dryer.

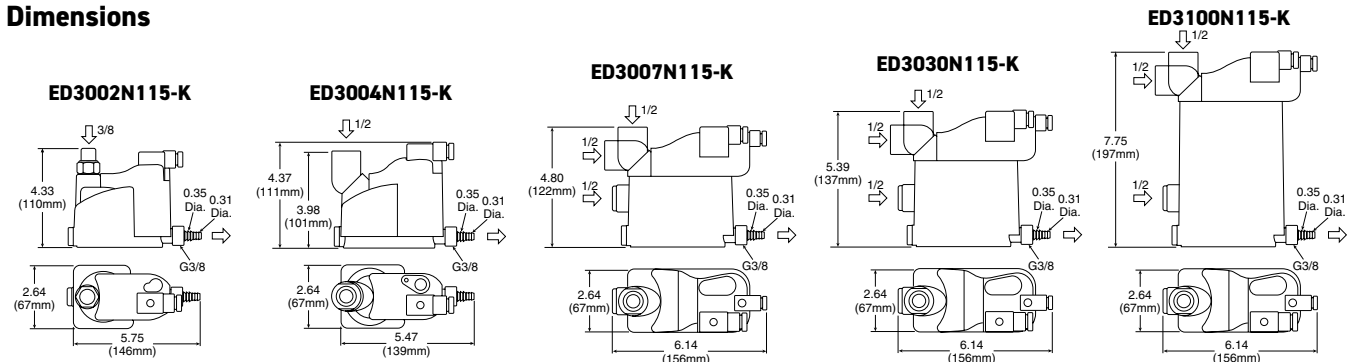
** Condensate from aftercooler or refrigerated dryer to be drained upstream – only for residual oil content or small quantities of condensate.

Note: A 6 ft. line cord will be included with each drain.

Where Are Condensate Drains Used?

Compressor with Aftercooler	Receiver Tank	Filter	Air Dryer	Drip Leg
Removes the condensate that is collected after the air cools in the aftercooler	Removes the condensate that is collected when the air cools inside of the receiver tank	Removes the condensate that is collected in the filter bowl	Removes the condensate that is collected in the air dryer	Point-of-use applications: removes the condensate from compressed air pipes in a plant

Dimensions



Most popular.

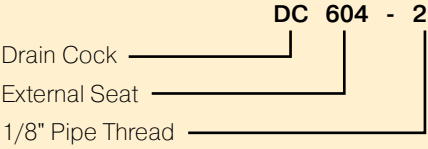


Drain Cocks

Drain cocks are manufactured in external seats. Hand tightening provides a metal - to - metal seal.

Drain Cock Nomenclature

Example:



Operating information

Operating pressure: 150 psig (150 bar)

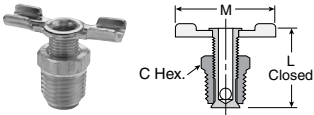
Temperature ranges:

Internal seal -65°F to 250°F (-53.9°C to 12.1°C)

External seal -25°F to 250°F (-31.7°C to 12.1°C)

Operating fluid: Air, water, gas and certain other fluids

Note: Lubricant may not be compatible with some fluids, contact factory for special fluid requirements.



External Seal - Drain Cock DC604

Temperature Range: -25° to 250°F

Part Number	Pipe Thread	C Hex	L	M
DC604-2*	1/8	7/16	.85	1.25
DC604-4	1/4	9/16	1.00	1.38
DC604-6*	3/8	11/16	1.22	1.68

*When assembled handle wings are down facing



LV / LVSS Series

Lockout valves are installed in pneumatic drop legs, or individual pneumatic control lines. In accordance with OSHA procedures, lockout valves are used during maintenance and service procedures of pneumatically (air) operated equipment.

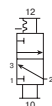
- Used for compliance with OSHA 29 CFR part 1910
- 1/4" to 2" pipe sizes. NPT or BSPP
- Yellow cast aluminum body with red handle or stainless steel (NACE MR0175 / ISO 15156)
- Inline or surface mountable
- Built in port for pressure verification to meet ANSI B11 and PMMI B155 requirements
- Fluorocarbon slipper seals for easy shifting, even after long periods of inactivity

Material specifications

Description	LV	LVSS
Body:	Cast aluminum alloy	Stainless steel
Handle:	Plastic	Stainless steel
Spool:	Aluminum	Stainless steel
Seals:	Carboxylated nitrile	Fluorocarbon
Detent spring:	Stainless steel	Stainless steel
Grease:	Magnalube G [†]	Magnalube G [†]

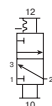
[†] Trademark Magnalube

Standard



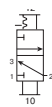
Port in/out	Port Exhaust	SCFM in/out	SCFM Exhaust	Wt (lb)	Part Number *
3/8	3/4	107.7	81.1	2.0	LV3N6B
1/2	3/4	161.4	90.9	2.0	LV4N6B
3/4	3/4	187.7	93.2	2.0	LV6N6B
3/4	1-1/4	297.7	204	3.2	LV6NAB
1	1-1/4	375	216	3.2	LV8NAB
1-1/4	1-1/4	436.4	221	3.2	LVANAB

High Flow



Port in/out	Port Exhaust	SCFM in/out	SCFM Exhaust	Wt (lb)	Part Number *
1-1/2	2	761.4	1156	8.2	LVBNCB
2	2	918.2	1186	8.2	LVCNCB

Stainless Steel



Port in/out	Port Exhaust	SCFM in/out	SCFM Exhaust	Wt (lb)	Part Number *
1/4	1/4	48.6	47.2	3.8	LV2N2BSS
3/8	1/2	131.6	142	6.0	LV3N4BSS
1/2	1/2	131.6	142	6.0	LV4N4BSS
3/4	1	325	386	13	LV6N8BSS
1	1	325	386	13	LV8N8BSS
1-1/2	2	889	1023	35	LVBNCBSS
2	2	889	1023	35	LVCNCBSS

NOTE: Exhaust flow rates calculated using inlet pressure 100 psig (6.7 bar), pressure drop 5 psi (0.34 bar), air temp 68°F (20°C), and 36% relative humidity.

* For BSPP ports, change 4th digit from "N" to "B"

 Most popular.



Operating information

Operating pressure:	LV	LVSS
Standard	15 to 300 PSIG	15 to 300 PSIG
High flow	15 to 300 PSIG	—
Operating temperature:	40°F to 175°F	30°F to 175°F
Operating media: Clean, dry, compressed air (5 micron)		



Lockout Valves

EZ Series

The EZ series meets all the same standards as the LV series with the added feature of a soft start when opened. There are still 2 detented positions for the handle (push close, pull to open), but when pulled open, an adjustable needle valve controls the rate of pressure build-up. This can protect equipment during start up after maintenance. The EZ is distinguishable from the LV series by the blue dot on the label.

Features

- Combines lockout and soft-start functions in a single unit
- Used in systems for compliance with OSHA standard 29 CFR part 1910
- 3/8 Inch to 1-1/4 inch pipe sizes
- Cv's from 3.7 to 13.7
- 3/4 and 1-1/4 inch: exhaust ports available
- Exhaust port threaded for installation of silencer or line for remote exhausting
- Inline or surface mountable
- Yellow cast aluminum body with red handle. Blue dot on body indicates EZ Series valve
- Fluorocarbon slipper seals for easy shifting, even after long periods of inactivity



3/4" Exhaust Shown

Operating information

Operating pressure:	Standard	15 to 300 PSIG
Operating temperature:		40°F to 175°F
Operating media:	Clean, dry, compressed air (5 micron)	

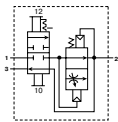
Material specifications

Description

Body:	Cast aluminum alloy
Handle:	Plastic
Spool:	Aluminum
Seals:	Carboxylated nitrile
Detent spring:	Stainless steel
Grease:	Magnalube G [†]

[†] Trademark Magnalube

EZ Series



Port in/out	Port Exhaust	SCFM in/out	SCFM Exhaust	Wt (lb)	Part Number *
3/8	3/4	136.4	181	2.1	EZ03NB6
1/2	3/4	161.4	189	2.1	EZ04NB6
3/4	3/4	181.9	216	2.1	EZ06NB6
3/4	1-1/4	272.7	248	3.2	EZ06NBA
1	1-1/4	311.4	273	3.2	EZ08NBA
1-1/4	1-1/4	368.2	291	3.2	EZ0ANBA

NOTE: Exhaust flow rates calculated using inlet pressure 100 psig (6.7 bar), pressure drop 5 psi (0.34 bar), air temp 68°F (20°C), and 36% relative humidity.

* For BSPP ports, change 5th digit from "N" to "B"

☐ Most popular.



Lockout Valves

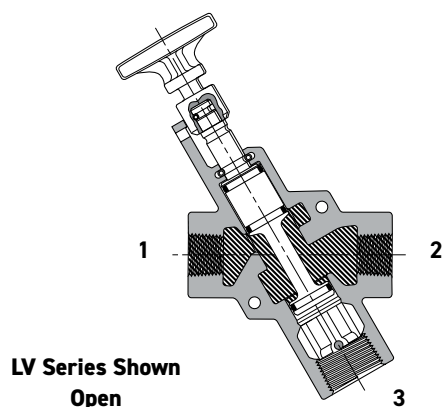
Applications

Lockout valves are installed in pneumatic drop legs, or individual pneumatic control lines (see Figure 1). In accordance with OSHA procedures, EZ valves are used during maintenance and service procedures of pneumatically (air) operated equipment. Prior to servicing, the red handle is pressed inward, blocking pressure and relieving all downstream air pressure. A padlock is installed through the locking hasp, preventing accidental actuation during the maintenance procedure. Following maintenance, the padlock is removed and the red handle is pulled outward, gradually returning air pressure to the system. (For complete Lockout / Tagout procedures, consult OSHA Standard 29 CFR Part 1910 in U.S. Federal Register/Vol. 54 No. 169, Friday, September 1, 1989 / Page 36644.)

LV / LVSS Operation

Normal Machine Operation – Valve Open

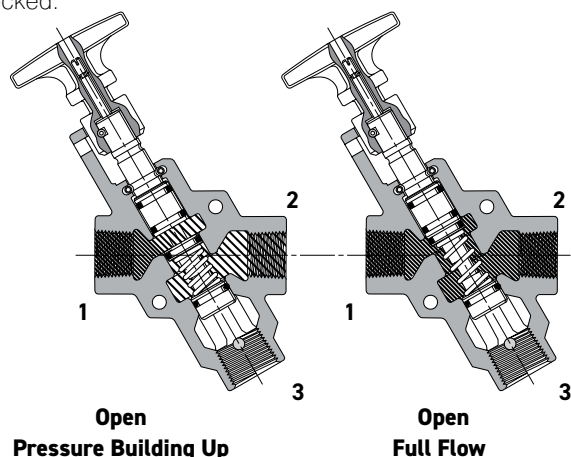
With the handle pulled outward. Inlet Port 1 is open to outlet Port 2. Exhaust Port 3 is blocked.



EZ Operation

Normal Machine Operation – Valve Open

When the red handle is pulled outward, the adjustable needle valve (accessed through the top of the handle) setting determines the rate of pressure buildup. When downstream pressure reaches the full flow described in the specifications below, Inlet Port 1 is open to outlet Port 2. Exhaust Port 3 is blocked.



Air Preparation Products Accessories

Mounting

Valves can be inline mounted or surface mounted using the two mounting holes provided in the valve body. Mount valves in plain view with the handle oriented for accessibility.

Placement of Lockout Device

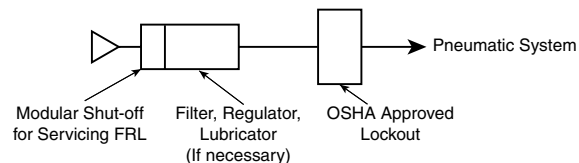
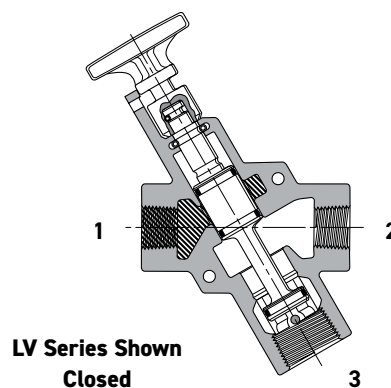


Figure 1.

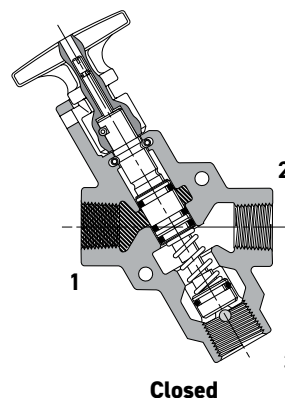
Lockout Operation – Valve Closed

With the handle pushed inward. Inlet Port 1 is blocked. Outlet Port 2 is open to Exhaust Port 3.



Lockout Operation – Valve Closed

When the red handle is pushed inward, the Inlet Port 1 is blocked. Downstream air is exhausted through Exhaust Port 3.



Lockout Valves

Corrosion resistant mufflers for harsh environments



Port Size	Construction	Threads	Dimensions In. (Mm)		Part Number
			Width	Length	
1/4	Stainless steel	Male, NPT	0.56 (14.2)	1.75 (44.5)	5500A2004
1/2	Stainless steel	Male, NPT	0.87 (22.1)	2.75 (69.7)	5500A4004
1	Stainless steel	Male, NPT	1.31 (33.3)	3.87 (98.3)	5500B6004
2	Nickel plated	Male, NPT	2.37 (60.2)	5.50 (139.7)	5500A9004*

* Nickel plated

High Flow Silencers



Part Number *	ES25MC	ES37MC	ES50MC	ES75MC	ES100MC	ES125MC	ES150MC	ES200FC
Pipe size	1/4	3/8	1/2	3/4	1	1-1/4	1-1/2	2
Flow (scfm)	129	219	549	893	1013	1486	1580	1580
Hex In. (mm)	0.63 (16)	1.00 (25)	1.00 (25)	1.62 (41)	1.62 (41)	—	—	3.00 (76)
Length In. (mm)	1.85 (47)	3.31 (84)	3.31 (84)	4.56 (116)	4.56 (116)	5.69 (145)	5.69 (145)	6.44 (164)

* NPT ports standard, for BSPT ports, add a "B" after the "S"

Pop-up Pressure Indicator



Brass – Part # **988A30** – Can be used on all LV or EZ series to provide visual verification of line exhaust



Stainless – Part# **1155H30** – Can be used on SS LV series to provide visual verification of line exhaust

Pressure Switch



- Part # **PPS1-2C3-RHM** (DIN 9.4mm connector)
- Part # **PPS1-2C3-RWL** (18" leads)
- Signal verification of line exhaust
- Field adjustable set point

Drains

Lockout Valves

AirGuard

Mufflers

Ball Valve / Plug Valves

Quick Couplings

Hose Products

Fittings

N

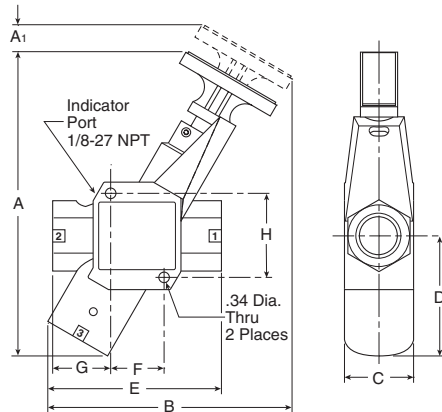
Airline Accessories



Lockout Valves

LZ Series, Exhaust Port - Standard, High Flow

Standard



Compact LV Series, 3/4" Exhaust Port Dimensions

A	A1	B	C	D	E
8.32 (211)	0.64 (16)	6.60 (168)	2.00 (51)	3.06 (78)	4.24 (108)

F	G	H
1.32 (111)	1.56 (40)	2.21 (56)

Inches (mm)

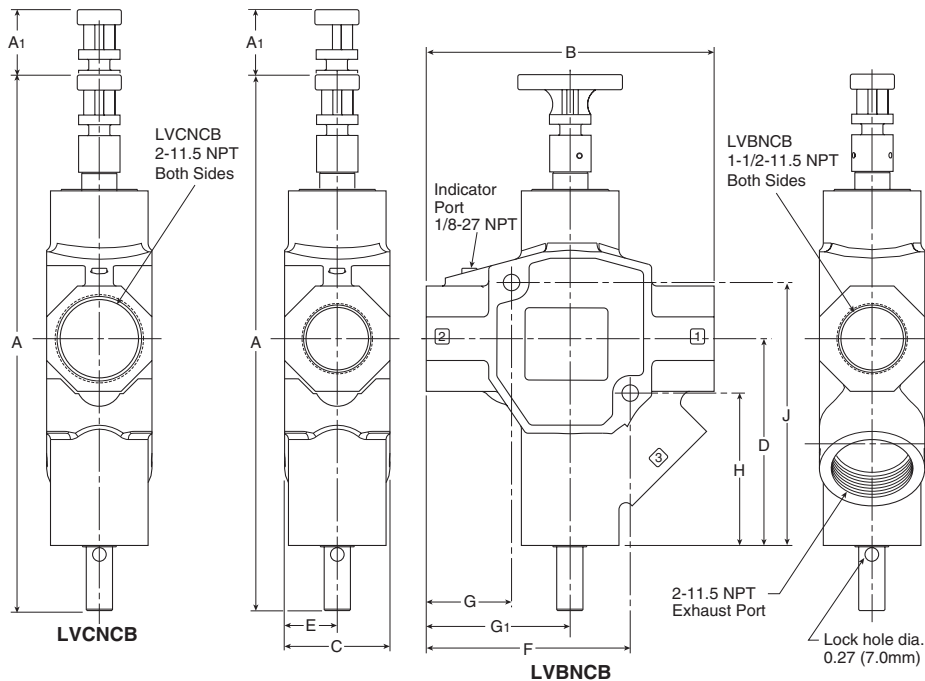
Compact LV Series, 1-1/4" Exhaust Port Dimensions

A	A1	B	C	D	E
9.91 (252)	0.85 (22)	7.95 (202)	2.25 (57)	3.91 (99)	5.65 (144)

F	G	H
1.74 (44)	1.89 (48)	2.74 (70)

Inches (mm)

High Flow



**High Flow LV Series,
2" Exhaust Port Dimensions**

A	A1	B
14.82 (376)	1.87 (47)	8.20 (208)

C	D	E
3.00 (76)	5.89 (150)	1.50 (38)

F	G	G1
5.81 (148)	2.43 (62)	4.10 (104)

H	J
4.34 (110)	7.49 (190)

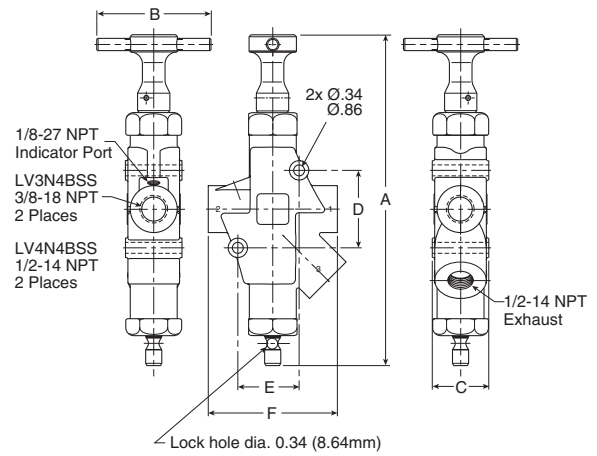
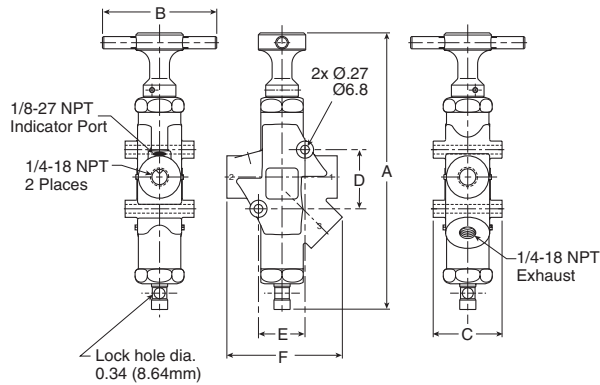
Inches (mm)



Lockout Valves

LZ Series, Exhaust Port - Standard, High Flow

Stainless Steel



Stainless Steel LV Series, 1/4" Exhaust Port Dimensions

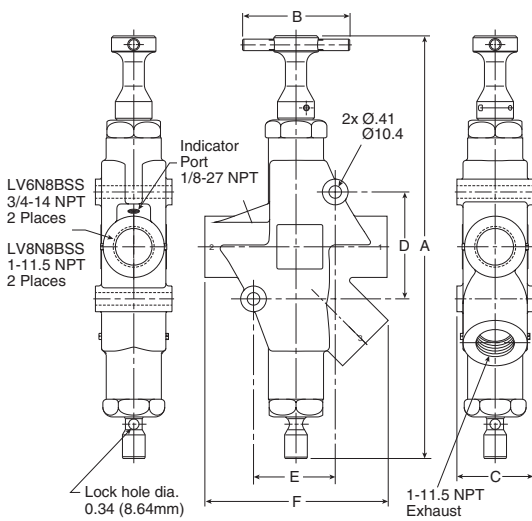
A	B	C	D	E	F
8.47 (215)	3.50 (89)	2.11 (54)	1.81 (46)	1.43 (36)	3.54 (90)

Inches (mm)

Stainless Steel LV Series, 1/2" Exhaust Port Dimensions

A	B	C	D	E	F
10.24 (260)	3.50 (89)	1.75 (45)	2.40 (61)	1.90 (48)	4.00 (102)

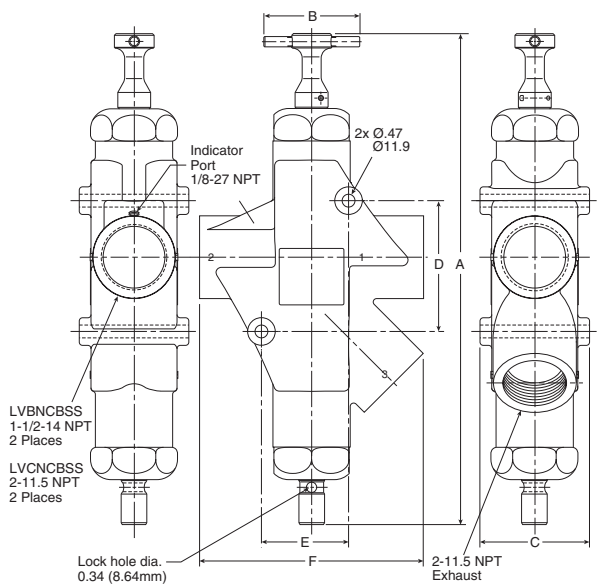
Inches (mm)



Stainless Steel LV Series, 1" Exhaust Port Dimensions

A	B	C	D	E	F
13.80 (351)	3.50 (89)	2.50 (64)	3.49 (89)	2.67 (68)	5.99 (152)

Inches (mm)



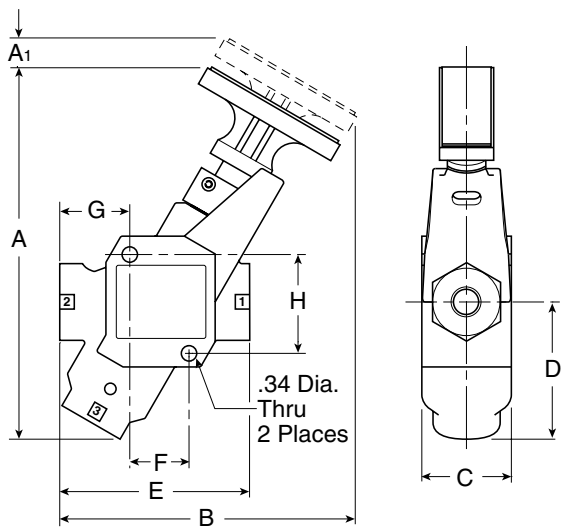
Stainless Steel LV Series, 2" Exhaust Port Dimensions

A	B	C	D	E	F
17.92 (455)	3.50 (89)	4.00 (102)	4.77 (121)	3.18 (81)	8.16 (207)

Inches (mm)



EZ Series, Exhaust Port - Standard Flow



EZ 3/4" Exhaust Port Dimensions

A	A1	B	C	D
8.32 (211)	0.64 (16)	6.60 (168)	2.00 (51)	3.06 (78)
E	F	G	H	
4.24 (108)	1.32 (111)	1.56 (40)	2.21 (56)	

Inches (mm)

EZ 1-1/4" Exhaust Port Dimensions

A	A1	B	C	D
9.91 (252)	0.85 (22)	7.95 (202)	2.25 (57)	3.91 (99)
E	F	G	H	
5.65 (144)	1.74 (44)	1.89 (48)	2.74 (70)	

Inches (mm)

Drains	Lockout Valves	AirGuard	Mufflers	Ball Valve / Plug Valves	Quick Couplings	Hose Products	Fittings	N	Airline Accessories
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AirGuard Protection System



Product Features:

- **Maintenance Friendly**
Repair possible while plant is still operating
- **Economic**
Competitive pricing
- **Complies with EU Standard**
EN 983 - § 5.3.4.3.2
- **Reliable and Tamperproof**
No adjustment necessary
- **Complies with ISO Standard**
4414 - § 5.4.5.11.1
- **Complies with MSHA Regulation**
30CFR 56.13021, 57.13021 and 57.1730
- **Lightweight**
Compact size
- Compatible with all Pneumatic Systems
- Can be used as a Flow Blocker
- **TUV Approval**
No. 01-02-0145
- **EU Registered Utility**
Model No. 0025 73 525
- **Complies with OSHA Regulation Standard**
29CFR 1926.302 (Partial)

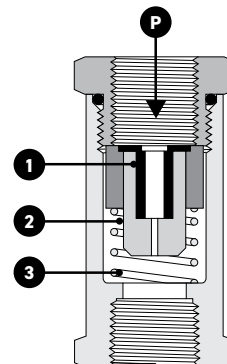
Protect your most important assets: your employees and their equipment!

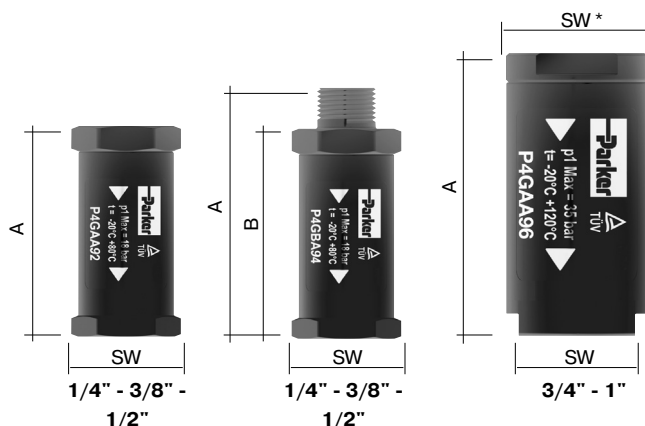
The AirGuard offers simple but efficient protection of a broken compressed-air hose. The air supply is immediately shut off by the AirGuard, should the volume of air exceed a set value. This "value" is factory preset and is set to allow normal air consumption when using air tools.

Should the air consumption exceeds the set value, e.g. the air line is severed, then the internal piston instantly shuts off the main flow. An integral bleed hole allows some air to flow though. This enables the line pressure to automatically reset the AirGuard once the main line break is repaired.

Function:

(P) is the inlet. Air passes the piston (1) and continues through the seat (3). The air flow, passing the piston, is slowed down by means of length wise grooves on the outer side of the piston. If the flow is too high, the air cannot pass the piston quickly enough, and the piston is forced against the spring (2) and towards the seat. The maximum flow is shown in the graph. If the value indicated is exceeded e.g. if the hose suddenly breaks - the air supply is automatically shut of. An integral bleed hole allows some air to flow though. This enables the line pressure to automatically reset the AirGuard once the main line break is repaired.



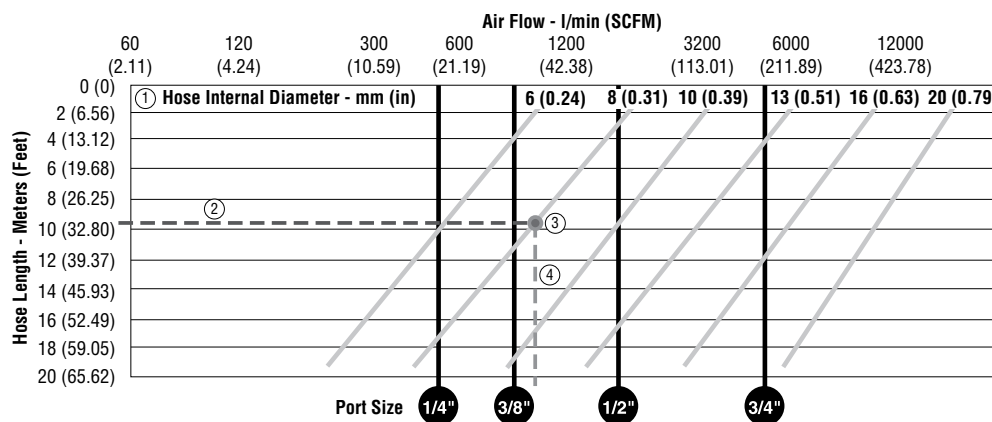


Weight and Dimensions metric (imperial)

Thread Connection	Dimensions inch (mm)			Weight oz. (g)	Max. Inlet Pressure	Temp. Range	Material	P1 Inlet Thread	P2 Outlet Thread	Part Number NPT
	A	B	SW							
1/4"	1.89 (48)	-	.87 (22)	1.06 (30)	255 psig (18 bar)	-4°F to 176°F (-20°C to 80°C)	Housing: Aluminum Piston: Polyacetal	Female	Female	P4GAA92
1/4"	2.28 (58)	49 (1.93)	.87 (22)	1.27 (36)				Male	Female	P4GBA92
3/8"	2.32 (59)	-	1.10 (28)	2.05 (58)				Female	Female	P4GAA93
3/8"	2.80 (71)	59 (2.32)	1.10 (28)	2.19 (62)				Male	Female	P4GBA93
1/2"	2.56 (65)	-	1.22 (31)	2.75 (78)				Female	Female	P4GAA94
1/2"	3.15 (80)	65 (2.56)	1.22 (31)	3.00 (85)	500 psig (35 bar)	-4°F to 248°F (-20°C to 120°C)	Housing: Aluminum Piston: Aluminum	Male	Female	P4GBA94
3/4"	2.99 (76)	-	1.18/1.42* (30/36*)	3.77 (107)				Female	Female	P4GAA96
1"	3.94 (100)	-	1.61/1.97* (41/50*)	10.58 (300)				Female	Female	P4GAA98

How to Select the Optimal Size of an AirGuard

Information based on an inlet pressure of 7 bar (100 psig)



- Determine the internal diameter of the hose, tube or pipe being used (1) (see specification Hose-internal Diameter, diagonal line).
- Determine the length of the hose, tube or pipe (2) (Hose length in meters).
- Define the intersection of point a and b, and mark a vertical line downwards (3) (4) In the example chart (dot 3) and the dashed line (4).
- The next vertical black line, left of the intersection line (4) tells the correct AirGuard size (in inches).
- Important: Every flow value to the right of the respective vertical line (black) would activate the AirGuard in case of a bursting hose, pipe or tube. All AirGuard sizes right of the intersection line (4) are too big and will not close up.
- Example:** Which air fuse should be used for a hose, pipe or tube bearing 8 mm inner diameter and 10 meters of length - follow the 10 meter line (2) to the intersection point (dot 3). Now the next left black line marks the correct size.
- Result:** The correct size in our example is the AirGuard 3/8"



EM Series & Muffler / Flow Controls

EM Series - Sintered Bronze Muffler / Filters

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



EM Series

Pipe Thread	Overall Length	Hex Size	Part Number
M5	.75	5/16"	EMM5
1/8"	1.00	7/16"	EM12
1/4"	1.32	9/16"	EM25
3/8"	1.54	11/16"	EM37
1/2"	1.85	7/8"	EM50
3/4"	2.29	1-1/16"	EM75
1"	2.91	1-5/16"	EM100
1-1/4"	3.25	1-11/16"	EM125
1-1/2"	3.69	2"	EM150

Operating information

Operating pressure: 250 psig (Air)
Cracking pressure 1 to 2 psig

Operating temperature:* 0°F to 300°F

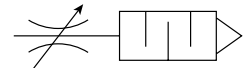
* Ambient temperatures below freezing require moisture-free air. Ambient temperatures below freezing and above 180° require lubricants especially selected for suitability at these temperatures. Pneumatic valves should be used with filtered and lubricated air.

Muffler / Flow Controls

Muffler / flow controls provide an acceptable exhaust noise level and effectively meter exhaust. Installed in valve exhaust ports, they control cylinder piston speeds throughout a wide range. The adjusting screw cannot be accidentally blown out, can be locked to maintain setting. Brass and bronze construction. Clean with commonly used solvents.

Muffler / Flow Controls

Pipe Thread	Overall Length	Hex Size	Part Number
1/8"	1.15	9/16"	045020002
1/4"	1.42	1/2"	045040004
3/8"	1.49	11/16"	045060060
1/2"	1.77	7/8"	045080080
3/4"	1.98	1-1/16"	045120012
1"	2.15	1-5/16"	045160016



Operating information

Operating pressure: 250 psig (Air)
Cracking pressure 1 to 2 psig

Operating temperature:* 0°F to 300°F

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

 Most popular.



Breather Vents

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.

Breather Vent

Pipe Thread	Overall Length	Hex Size	Part Number
1/8"	0.44	7/16"	047020002
1/4"	0.63	9/16"	047040004
3/8"	0.75	11/16"	047060006
1/2"	0.88	7/8"	047080008
3/4"	1.00	1-1/8"	047120012
1"	1.31	1-5/16"	047160016
1-1/4"	1.41	1-11/16"	047200020
1-1/2"	1.50	2"	047240024



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

Operating information

Operating pressure: 150 psig (Air) max.

Operating temperature:* 0°F to 300°F

Material:

Breather vent: Sintered bronze,

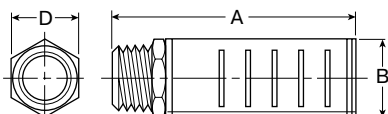
Housing: Zinc plated steel

* Ambient temperatures below freezing require moisture-free air.

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

ES Series - Silencer

The 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.



Operating information

Operating pressure: 250 psig (Air) max.

Operating temperature:* 0°F to 300°F

* Ambient temperatures below freezing require moisture-free air.

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

ES Series - Silencer

Pipe Thread	Flow scfm @ 100 psig inlet	Dimensions			Part Numbers	
		A	B	D	NPTF	BSPT (R)
1/8"	115	1.85	0.81	0.63	ES12MC	ESB12MC
1/4"	129	1.85	0.81	0.63	ES25MC	ESB25MC
3/8"	219	3.31	1.26	1.00	ES37MC	ESB37MC
1/2"	549	3.31	1.26	1.00	ES50MC	ESB50MC
3/4"	893	4.56	2.01	1.62	ES75MC	ESB75MC
1"	1,013	4.56	2.01	1.62	ES100MC	ESB100MC
1-1/4"	1,486	5.69	2.88	—	ES125MC	ESB125MC
1-1/2"	1,580	5.69	2.88	—	ES150MC	ESB150MC

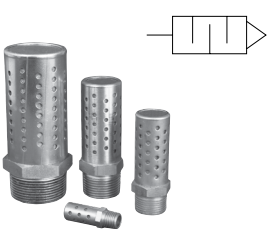
 Most popular.



Stainless Steel Mufflers

Stainless Steel Mufflers

Corrosion resistant mufflers for harsh environments



Port Size	Construction	Threads	Dimensions In. (mm)		Part Number
			Width	Length	
1/4	Stainless steel	Male, NPT	0.56 (14.2)	1.75 (44.5)	5500A2004
1/2	Stainless steel	Male, NPT	0.87 (22.1)	2.75 (69.7)	5500A4004
1	Stainless steel	Male, NPT	1.31 (33.3)	3.87 (98.3)	5500A6004
2	Nickel plated	Male, NPT	2.37 (60.2)	5.50 (139.7)	5500A9004*

* Nickel plated

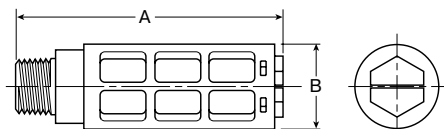
Drains
Lockout Valves
AirGuard
Mufflers
Ball Valve / Plug Valves
Quick Couplings
Hose Products
Fittings
N
Airline Accessories



ASN Air Line Silencer, Plastic

- Compact
- Lightweight
- Easy to Install
- Excellent Noise Reduction
- Protects Components from Contamination
- NPT and BSPT Threads Available

The plastic silencer is designed to give excellent noise reduction with a minimum effect on air efficiency. The "Trimline" design allows for locating the silencer in the tightest places without extra plumbing or fittings. Fits directly into the exhaust port of most commercial valves. Open surface area of element allows for rapid discharge of air without undesirable back pressure.



Operating information

Operating pressure:	0 to 150 psig (0 to 10 bar, 0 to 1034 kPa)
Operating temperature:	14°F to 140°F (-10°C to 60°C)

Material Specifications

Body	Acetal (Plastic)
Element	Polyethylene

ASN Air Line Silencer, Plastic

Thread Size	A (mm)	B (mm)	Maximum Flow (scfm) 100 psig inlet	Sound Pressure Level (dBA)		Part Number	
				20 psig inlet	100 psig inlet	NPT	BSPT
M5	0.43 (11)	0.32 (8)	15	69	79	AS-5	
1/8"	1.57 (40)	0.63 (16)	51	69	81	ASN-6	AS-6
1/4"	2.56 (65)	0.83 (21)	124	67	84	ASN-8	AS-8
3/8"	3.35 (85)	0.98 (25)	247	83	98	ASN-10	AS-10
1/2"	3.74 (95)	1.18 (30)	370	69	96	ASN-15	AS-15

Most popular.

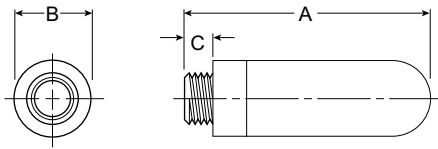
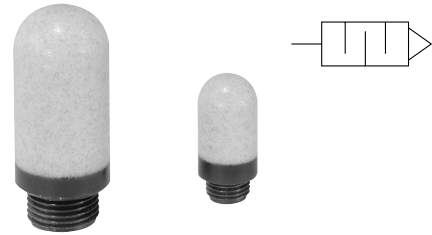


P6M Series, Air Line Silencers

P6M G Thread Air Line Silencer, Plastic

- All Plastic Ultra Light Weight Versions
- High Noise Level Reduction
- Low Back Pressure Generation

The plastic silencer is designed to give excellent noise reduction with a minimum effect on air efficiency. The "Trimline" design allows for locating the silencer in the tightest places without extra plumbing or fittings. Fits directly into the exhaust port of most commercial valves. Open surface area of element allows for rapid discharge of air without undesirable back pressure.



Operating information

Operating pressure:	0 to 246 psig (0 to 17 bar, 0 to 1700 kPa)
Operating temperature:	
Plastic	14°F to 176°F (-10°C to 80°C)
Metal	14°F to 165°F (-10°C to 74°C)
Efficiency	92%

P6M G Thread, Air Line Silencer, Plastic

Port Thread	A	Diameter B	C	Weight (grams)	Part Number
M5	0.91 (23)	0.26 (6,5)	0.16 (4)	0.01	P6M-PAC5
G1/8	1.14 (29)	0.55 (14)	0.24 (6)	0.02	P6M-PAB1
G1/4	1.34 (34)	0.67 (17)	0.24 (6)	0.04	P6M-PAB2
G3/8	2.36 (60)	0.98 (25)	0.35 (9)	0.06	P6M-PAB3
G1/2	2.52 (64)	0.98 (25)	0.43 (11)	0.10	P6M-PAB4
G3/4	5.51 (140)	1.50 (38)	0.55 (14)	0.50	P6M-PAB6
G1	6.30 (160)	1.89 (48)	0.79 (20)	0.62	P6M-PAB8

 Most popular.



ECS Reclassifier, Air Line Muffler

The ECS (Muffler-Reclassifier) eliminates unwanted oil mist and reduces exhaust noise from pneumatic valves, cylinders and air motors.

- 99.97% Oil Removal Efficiencies
- 25 dBA Noise Attenuation
- 1/2" NPT and 1" NPT
- Disposable Units
- Continuous or Plugged Drain Option
- Metal Retained Construction
- Fast Exhaust Time

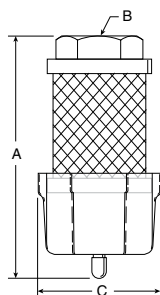
Improve Overall Plant Environment

Exhaust oil mist and noise pollution have a direct impact on worker productivity.

Oil aerosol mist from lubricators and compressors is pervasive and enters the industrial plant environment through the exhaust ports of valves, cylinders and air motors. This rapidly expanding exhaust also produces sudden and excessive noise.

The ECS (Muffler-Reclassifier) is 99.97% efficient at removing the oil aerosols. The ECS also acts as a silencer to lower the dBA levels below O.S.H.A. requirements.

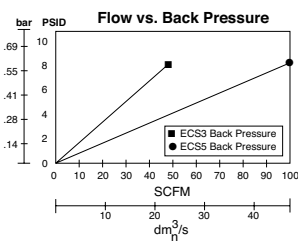
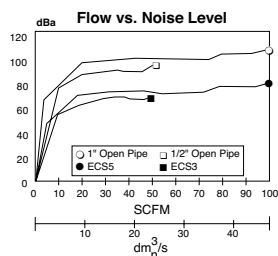
The result is a cleaner, quieter environment which equates to greater work productivity and safety.



ECS Reclassifier, Air Line Muffler

Thread Size	A	B	C	Part Number
1/2	5.30 (135mm)	1/2" NPT	2.57 (65mm)	ECS3
1	7.30 (185mm)	1" NPT	2.57 (65mm)	ECS5

Performance Characteristics



Most popular.



Operating information

Maximum line pressure:	100 psig (6.8 bar)
Maximum operating temperature:	125°F (52°C)

Operation

Compressor oils and lubricating oils are exhausted from valves, cylinders and air motors into the ECS. Oil aerosols are “coalesced” into larger droplets and gravity pulls them into the attached drain sump. The sump can then be drained manually or by using a 1/4" ID plastic tube drain. The air flowing into the ECS is also muffled or silenced as it enters the inside of the ECS and passes through the filter media into the atmosphere.

Proven Technology

The ECS units are constructed from the same materials that go into our oil removal coalescing filter elements.

The seamless design insures media uniformity and strength. This proven technology provides high coalescing efficiency with low pressure drop.

The filter media is supported by cylindrical perforated steel retainers both inside and out. These retainers, fully plated for excellent corrosion resistance, give the ECS units high rupture strength in either flow direction. These filters can also be used as high efficiency inlet or bypass filters for vacuum pumps, or breather elements to protect the air above critical process liquids.

ECS3 / ECS5

The ECS solves two problems inherent in compressed air exhaust from valves, cylinders and air motors - oil mist removal and noise abatement.

The ECS will improve your industrial plant environment, thereby improving worker productivity.



Drains
Lockout Valves
AirGuard
Mufflers
Ball Valve / Plug Valves
Quick Couplings
Hose Products
Fittings
N
Airline Accessories

