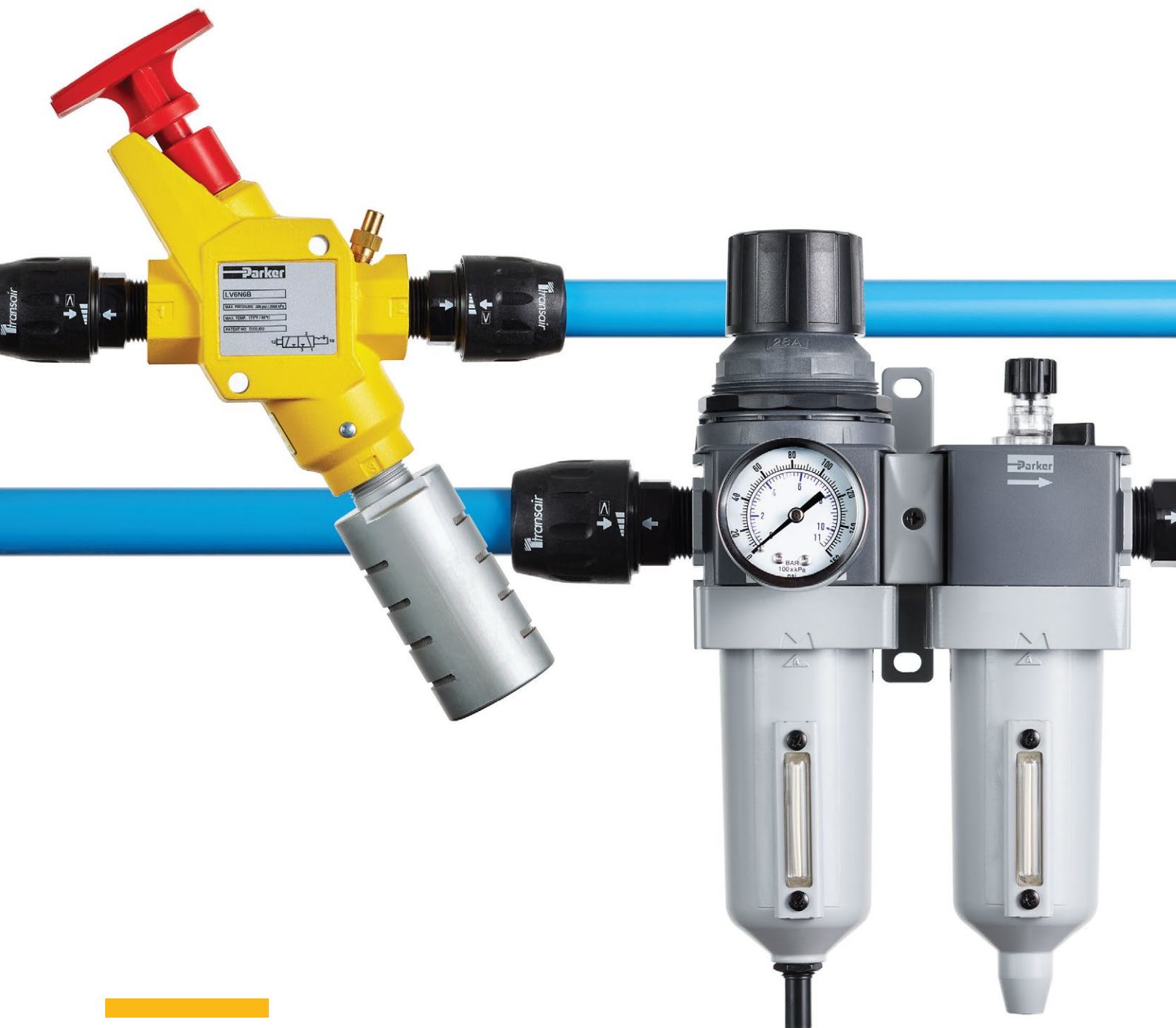




AIR PREPARATION SYSTEM LOCKOUT VALVES

with or without soft start
1/4 to 2 Body Ports



**WARNING – USER RESPONSIBILITY**

FAILURE OR IMPROPER SELECTION OR IMPROPER USE OF THE PRODUCTS DESCRIBED HEREIN OR RELATED ITEMS CAN CAUSE DEATH, PERSONAL INJURY AND PROPERTY DAMAGE.

- This document and other information from Parker-Hannifin Corporation, its subsidiaries and authorized distributors provide product or system options for further investigation by users having technical expertise.
- The user, through its own analysis and testing, is solely responsible for making the final selection of the system and components and assuring that all performance, endurance, maintenance, safety and warning requirements of the application are met. The user must analyze all aspects of the application, follow applicable industry standards, and follow the information concerning the product in the current product catalog and in any other materials provided from Parker or its subsidiaries or authorized distributors.
- To the extent that Parker or its subsidiaries or authorized distributors provide component or system options based upon data or specifications provided by the user, the user is responsible for determining that such data and specifications are suitable and sufficient for all applications and reasonably foreseeable uses of the components or systems.

SALE CONDITIONS

The items described in this document are available for sale by Parker Hannifin Corporation, its subsidiaries or its authorized distributors. Any sale contract entered into by Parker will be governed by the provisions stated in Parker's standard terms and conditions of sale (copy available upon request).

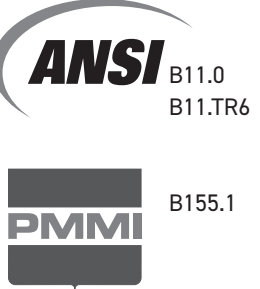
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If you have questions about the products contained in this catalog, or their applications, please contact:
Parker Hannifin EMEA Sàrl European Headquarters
parker.com/msge

PARKER IS PROTECTING YOUR MOST VALUABLE ASSETS...

 Standard 1910.147	• This applies to the servicing and maintenance of a machine or equipment. • Any new, replacement, repair, or renovation to a machine must include an energy isolation device that can accept a lock out device. • Lock out devices should not be used for any other purposes • Verification of energy isolation is required
 Standard Z244	• This applies to all machines • Lockout / tagout is the primary method of hazardous energy control • Machines shall be designed, manufactured, supplied, and installed with energy isolating devices
	• B11.0 applies to a broad range of machines, B11.TR6 is specific to machine tools, and B155.1 is specific to packaging and converting machines • Energy isolating device shall: • Be capable of being locked in the OFF position only • Be easy to operate • Have an exhaust port equal or greater than its supply port • Have a pressure indicator that is visible to an operator to verify line is relieved of pressure

...By offering the best in pneumatic safety for machine maintenance:



Traditional Ball Valve

- Not a dedicated energy isolation device ✗
- Not a full exhaust port ✗
- No verification of line exhaust ✗
- Can be locked ON ✗
- Not easily identifiable ✗



Parker Solution

- ✓ Dedicated energy isolation device
- ✓ Full exhaust port
- ✓ Verification of line exhaust
- ✓ Only lockable in OFF position
- ✓ Easily identifiable

Energy Isolation Safety Function

The Lockout valve is used to block the supply and remove the downstream pressure from the circuit or machine and allow the worker to lockout the pneumatic energy for safe machine access.

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.)

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

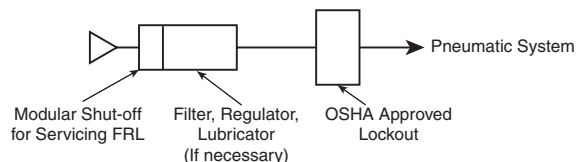
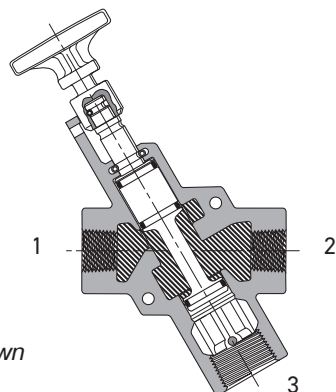


Figure 1.

LV / LVSS Operation

Normal Machine Operation – Valve Open

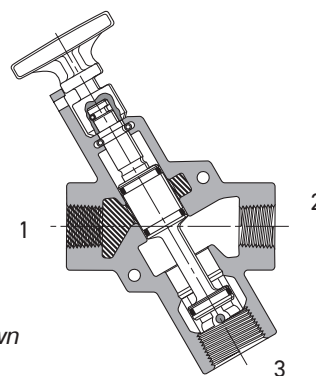
With the handle pulled outward. Inlet Port 1 is open to outlet Port 2. Exhaust Port 3 is blocked.



LV Series Shown Open

Lockout Operation – Valve Closed

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

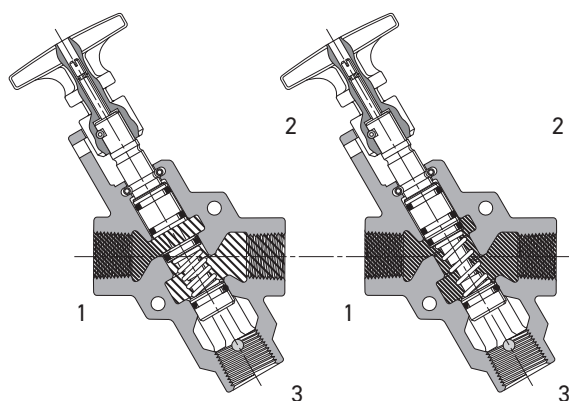


LV Series Shown Closed

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.

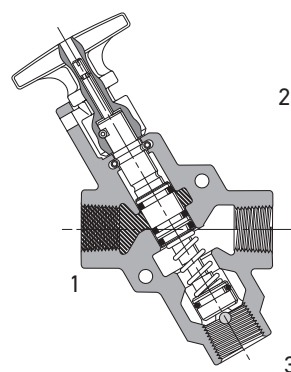


Open Pressure Building Up

Open Full Flow

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.



Closed

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 BSPP, SS LV only NPT

- 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

Operating information

Operating pressure:	LV	LVSS
Standard	1 to 20 bar	1 to 20 bar
High flow	1 to 20 bar	–
Operating temperature:	+4°C + 80°C	-1°C to +80°C
Operating media:	Clean, dry, compressed air (5 micron)	

Safety Category Cat. 1 PL b.

Standard



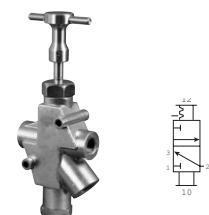
Port In/Out	Port Exhaust	dm ³ /s In/Out	dm ³ /s Exhaust	Wt (kg)	Part Number BSPP*
3/8	3/4	51	39	0,90	LV3B6B
1/2	3/4	77	43	0,90	LV4B6B
3/4	3/4	89	44	0,90	LV6B6B
3/4	1-1/4	142	97	1,45	LV6BAB
1	1-1/4	179	103	1,45	LV8BAB
1-1/4	1-1/4	208	105	1,45	LVABAB

High Flow



Port In/Out	Port Exhaust	dm ³ /s In/Out	dm ³ /s Exhaust	Wt (kg)	Part Number BSPP*
1-1/2	2	363	550	3,72	LVBBCB
2	2	437	565	3,72	LVCBCB

Stainless Steel



Port In/Out	Port Exhaust	dm ³ /s In/Out	dm ³ /s Exhaust	Wt (kg)	Part Number NPT*
1/4	1/4	23	22	1,72	LV2N2BSS
3/8	1/2	63	68	2,72	LV3N4BSS
1/2	1/2	63	68	2,72	LV4N4BSS
3/4	1	155	184	5,90	LV6N8BSS
1	1	155	184	5,90	LV8N8BSS
1-1/2	2	423	487	15,90	LVBNCBSS
2	2	423	487	15,90	LVCNCBSS

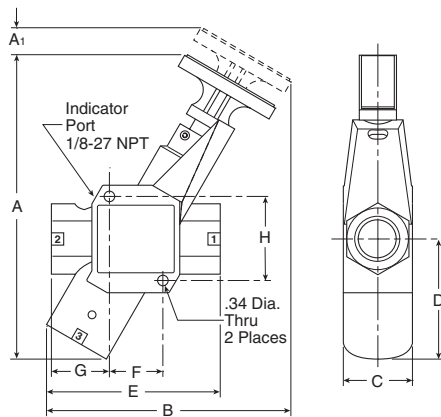
NOTE: Exhaust flow rates calculated using inlet pressure 100 psig (6.7 bar), pressure drop 5 psi (0.34 bar), air temp 68°F (20°C), and 36% relative humidity.

* Indicator air port is NPT thread

☐ Most popular.

LV Series, Exhaust Port - Standard, High Flow

Standard



Standard LV Series, 3/4" Exhaust Port Dimensions

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

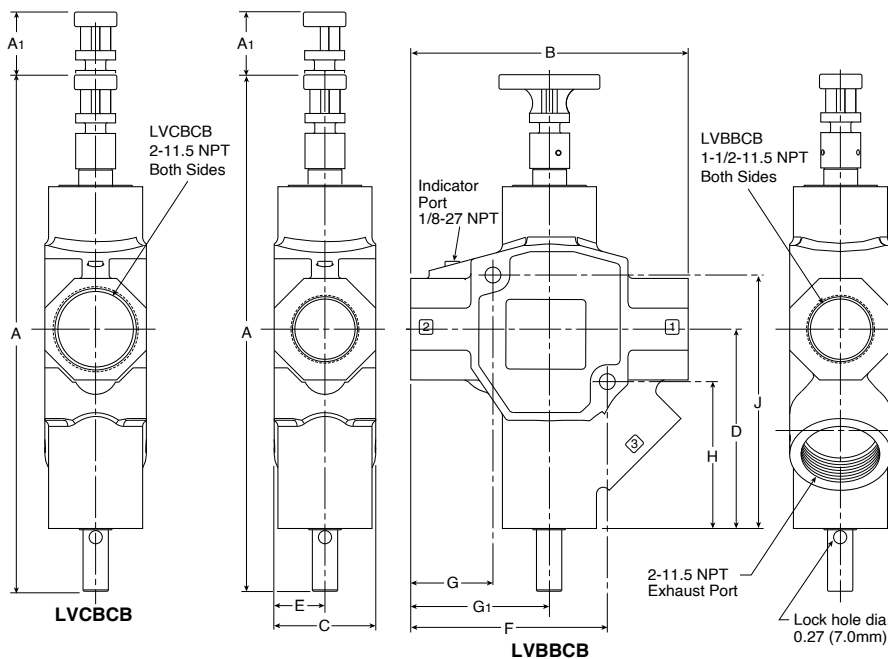
Inches (mm)

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

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

Inches (mm)

High Flow

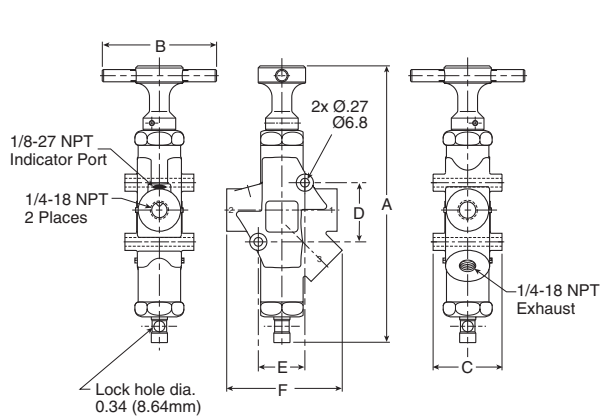


High Flow LV Series, 2" Exhaust Port Dimensions

A	A1	B
14.82	1.87	8.20
(376)	(47)	(208)
C	D	E
3.00	5.89	1.50
(76)	(150)	(38)
F	G	G1
5.81	2.43	4.10
(148)	(62)	(104)
H	J	
4.34	7.49	
(110)	(190)	

Inches (mm)

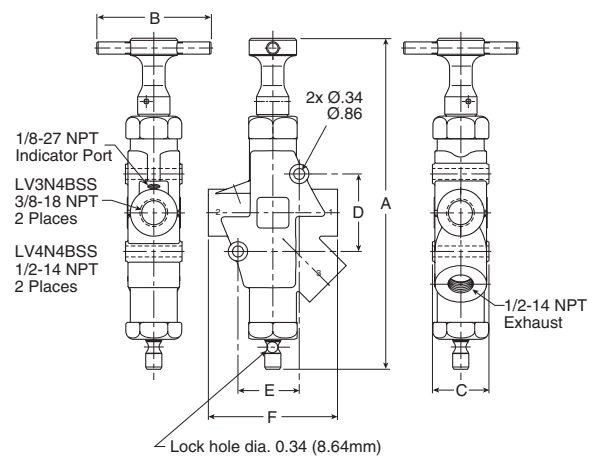
LV Series, Exhaust Port - Stainless Steel



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

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

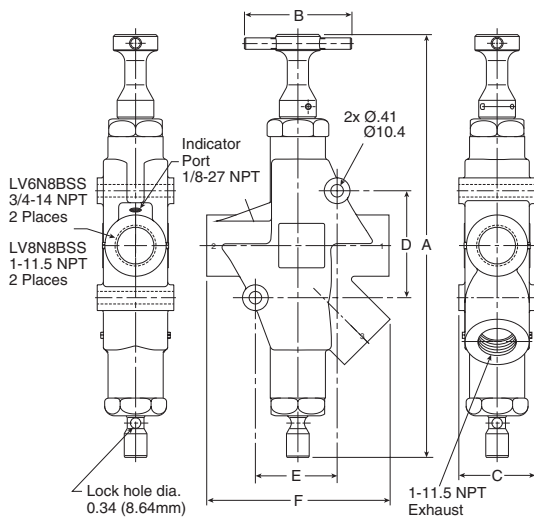
Inches (mm)



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

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

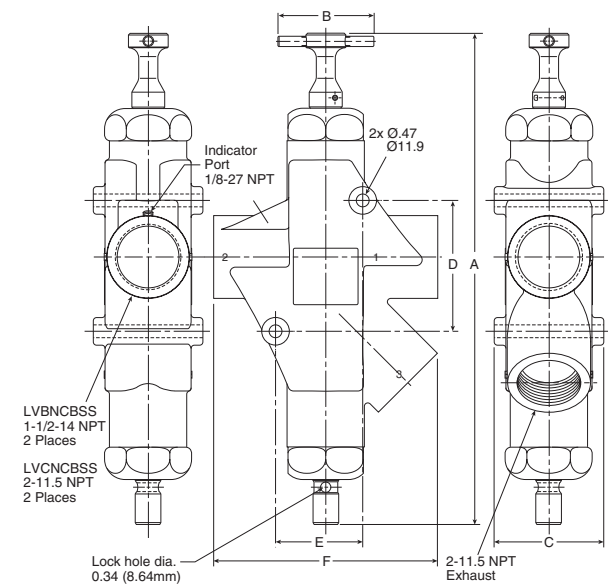
Inches (mm)



Stainless Steel LV Series, 1" Exhaust Port Dimensions

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

Inches (mm)



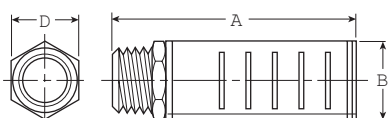
Stainless Steel LV Series, 2" Exhaust Port Dimensions

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

Inches (mm)

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: 17 bar max.

Operating temperature:* -18°C to +150°C

* 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 in mm			Part Numbers
		A	B	D	BSPT (R)
1/8"	115	1.85	0.81	0.63	ESB12MC
1/4"	129	1.85	0.81	0.63	ESB25MC
3/8"	219	3.31	1.26	1.00	ESB37MC
1/2"	549	3.31	1.26	1.00	ESB50MC
3/4"	893	4.56	2.01	1.62	ESB75MC
1"	1,013	4.56	2.01	1.62	ESB100MC
1-1/4"	1,486	5.69	2.88	—	ESB125MC
1-1/2"	1,580	5.69	2.88	—	ESB150MC

STAINLESS STEEL MUFFLERS

Corrosion resistant mufflers for harsh environments



Pipe Thread	Construction	Threads	Dimensions in mm		Part Numbers
			Width	Length	
1/4	Stainless steel	Male, NPT	14.2	44.5	5500A2004
1/2	Stainless steel	Male, NPT	22.1	69.7	5500A4004
1	Stainless steel	Male, NPT	33.3	98.3	5500A6004
2	Nickel plated	Male, NPT	60.2	139.7	5500A9004*

* Nickel plated



Visual Pop-up Indicator - Part #988A30

- Visual verification of line exhaust to comply with regulations
- Can be used on all LV or EZ part numbers



Stainless - Part # 1155H30

- Can be used on SS LV series to provide visual verification of line exhaust



Pressure Switch - Part # PPS1-2C3-RHM (DIN 9.4 mm)

- Signal verification of line exhaust
- Can be used on all LV, LVSS, or EZ part numbers
- Field adjustable set pressure point

NPT for indicator air port

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
- 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

Operating information

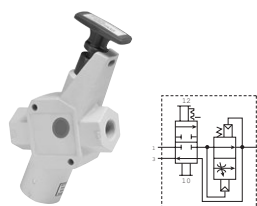
Operating pressure:	
Standard	15 to 300 PSIG
Operating temperature:	40°F to 175°F
Operating media:	Clean, dry, compressed air (5 micron)

Material specifications

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

[†] Trademark Magnalube

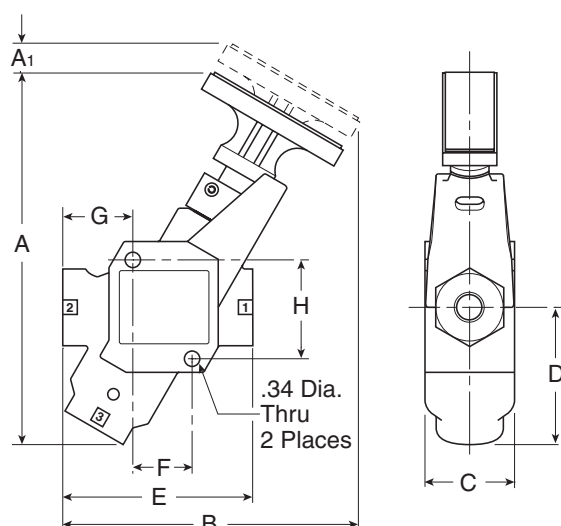
EZ Series



Port In/Out	Port Exhaust	dm ³ /s In/Out	dm ³ /s Exhaust	Wt (kg)	Part Number BSPP *
3/8	3/4	65	86	0,95	EZ03BB6
1/2	3/4	77	90	0,95	EZ04BB6
3/4	3/4	87	103	0,95	EZ06BB6
3/4	1-1/4	130	118	1,45	EZ06BBA
1	1-1/4	148	130	1,45	EZ08BBA
1-1/4	1-1/4	175	213991	1,45	EZ0ABBA

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. * Indicator air port is NPT thread

EZ Series, Exhaust Port - Standard Flow



Most popular.

EZ 3/4" Exhaust Port Dimensions

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

Inches (mm)

EZ 1-1/4" Exhaust Port Dimensions

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

Inches (mm)



Safety Guide For Selecting And Using Pneumatic Division Products And Related Accessories

WARNING:

FAILURE OR IMPROPER SELECTION OR IMPROPER USE OF PNEUMATIC DIVISION PRODUCTS, ASSEMBLIES OR RELATED ITEMS ("PRODUCTS") CAN CAUSE DEATH, PERSONAL INJURY, AND PROPERTY DAMAGE. POSSIBLE CONSEQUENCES OF FAILURE OR IMPROPER SELECTION OR IMPROPER USE OF THESE PRODUCTS INCLUDE BUT ARE NOT LIMITED TO:

- Unintended or mistimed cycling or motion of machine members or failure to cycle
- Work pieces or component parts being thrown off at high speeds.
- Failure of a device to function properly for example, failure to clamp or unclamp an associated item or device.
- Explosion
- Suddenly moving or falling objects.
- Release of toxic or otherwise injurious liquids or gasses.
- Before selecting or using any of these Products, it is important that you read and follow the instructions below.

1. GENERAL INSTRUCTIONS

- 1.1. Scope: This safety guide is designed to cover general guidelines on the installation, use, and maintenance of Pneumatic Division Valves, FRLs (Filters, Pressure Regulators, and Lubricators), Vacuum products and related accessory components.
- 1.2. Fail-Safe: Valves, FRLs, Vacuum products and their related components can and do fail without warning for many reasons. Design all systems and equipment in a fail-safe mode, so that failure of associated valves, FRLs or Vacuum products will not endanger persons or property.
- 1.3. Relevant International Standards: For a good guide to the application of a broad spectrum of pneumatic fluid power devices see: ISO 4414:1998, Pneumatic Fluid Power – General Rules Relating to Systems. See www.iso.org for ordering information.
- 1.4. Distribution: Provide a copy of this safety guide to each person that is responsible for selection, installation, or use of Valves, FRLs or Vacuum products. Do not select, or use Parker valves, FRLs or vacuum products without thoroughly reading and understanding this safety guide as well as the specific Parker publications for the products considered or selected.
- 1.5. User Responsibility: Due to the wide variety of operating conditions and applications for valves, FRLs, and vacuum products Parker and its distributors do not represent or warrant that any particular valve, FRL or vacuum product is suitable for any specific end use system. This safety guide does not analyze all technical parameters that must be considered in selecting a product. The user, through its own analysis and testing, is solely responsible for:
 - Making the final selection of the appropriate valve, FRL, Vacuum component, or accessory.
 - Assuring that all user's performance, endurance, maintenance, safety, and warning requirements are met and that the application presents no health or safety hazards.

- Complying with all existing warning labels and / or providing all appropriate health and safety warnings on the equipment on which the valves, FRLs or Vacuum products are used; and,
- Assuring compliance with all applicable government and industry standards.

- 1.6. Safety Devices: Safety devices should not be removed, or defeated.
- 1.7. Warning Labels: Warning labels should not be removed, painted over or otherwise obscured.
- 1.8. Additional Questions: Call the appropriate Parker technical service department if you have any questions or require any additional information. See the Parker publication for the product being considered or used, or call 1-800-CPARKER, or go to www.parker.com, for telephone numbers of the appropriate technical service department.

2. PRODUCT SELECTION INSTRUCTIONS

- 2.1. Flow Rate: The flow rate requirements of a system are frequently the primary consideration when designing any pneumatic system. System components need to be able to provide adequate flow and pressure for the desired application.
- 2.2. Pressure Rating: Never exceed the rated pressure of a product. Consult product labeling, Pneumatic Division catalogs or the instruction sheets supplied for Maximum pressure ratings.
- 2.3. Temperature Rating: Never exceed the temperature rating of a product. Excessive heat can shorten the life expectancy of a product and result in complete product failure.
- 2.4. Environment: Many environmental conditions can affect the integrity and suitability of a product for a given application. Pneumatic Division products are designed for use in general purpose industrial applications. If these products are to be used in unusual circumstances such as direct sunlight and/or corrosi-

ve or caustic environments, such use can shorten the useful life and lead to premature failure of a product.

- 2.5. **Lubrication and Compressor Carryover:** Some modern synthetic oils can and will attack nitrile seals. If there is any possibility of synthetic oils or greases migrating into the pneumatic components check for compatibility with the seal materials used. Consult the factory or product literature for materials of construction.
- 2.6. **Polycarbonate Bowls and Sight Gauges:** To avoid potential polycarbonate bowl failures:
 - Do not locate polycarbonate bowls or sight gauges in areas where they could be subject to direct sunlight, impact blow, or temperatures outside of the rated range.
 - Do not expose or clean polycarbonate bowls with detergents, chlorinated hydro-carbons, ketones, esters or certain alcohols.
 - Do not use polycarbonate bowls or sight gauges in air systems where compressors are lubricated with fire resistant fluids such as phosphate ester and di-ester lubricants.
- 2.7. **Chemical Compatibility:** For more information on plastic component chemical compatibility see Pneumatic Division technical bulletins Tec-3, Tec-4, and Tec-5
- 2.8. **Product Rupture:** Product rupture can cause death, serious personal injury, and property damage.
 - Do not connect pressure regulators or other Pneumatic Division products to bottled gas cylinders.
 - Do not exceed the Maximum primary pressure rating of any pressure regulator or any system component.
 - Consult product labeling or product literature for pressure rating limitations.

3. PRODUCT ASSEMBLY AND INSTALLATION INSTRUCTIONS

- 3.1. **Component Inspection:** Prior to assembly or installation a careful examination of the valves, FRLs or vacuum products must be performed. All components must be checked for correct style, size, and catalog number. DO NOT use any component that displays any signs of nonconformance.
- 3.2. **Installation Instructions:** Parker published Installation Instructions must be followed for installation of Parker valves, FRLs and vacuum components. These instructions are provided with every Parker valve or FRL sold, or by calling 1-800-CPARKER, or at www.parker.com.
- 3.3. **Air Supply:** The air supply or control medium supplied to Valves, FRLs and Vacuum components must be moisture-free if ambient temperature can drop below freezing

4. VALVE AND FRL MAINTENANCE AND REPLACEMENT INSTRUCTIONS

- 4.1. **Maintenance:** Even with proper selection and installation, valve, FRL and vacuum products service life may be significantly reduced without a continuing maintenance program. The severity of the application, risk potential from a component failure, and experience with any known failures in the application or in similar applications should determine the frequency of inspections and the servicing or replacement of Pneumatic Division products so that products are replaced before any failure occurs. A maintenance program must be established and followed by the user and, at Minimum, must include instructions 4.2 through 4.10.
- 4.2. **Installation and Service Instructions:** Before attempting to service or replace any worn or damaged parts consult the appropriate Service Bulletin for the valve or FRL in question for the appropriate practices to service the unit in question. These Service and Installation Instructions are provided with every Parker valve and FRL sold, or are available by calling 1-800-CPARKER, or by accessing the Parker web site at www.parker.com.
- 4.3. **Lockout / Tagout Procedures:** Be sure to follow all required lockout and tagout procedures when servicing equipment. For more information see: OSHA Standard – 29 CFR, Part 1910.147, Appendix A, The Control of Hazardous Energy – (Lockout / Tagout)
- 4.4. **Visual Inspection:** Any of the following conditions requires immediate system shut down and replacement of worn or damaged components:
 - Air leakage: Look and listen to see if there are any signs of visual damage to any of the components in the system. Leakage is an indication of worn or damaged components.
 - Damaged or degraded components: Look to see if there are any visible signs of wear or component degradation.
 - Kinked, crushed, or damaged hoses. Kinked hoses can result in restricted air flow and lead to unpredictable system behavior.
 - Any observed improper system or component function: Immediately shut down the system and correct malfunction.
 - Excessive dirt build-up: Dirt and clutter can mask potentially hazardous situations. Caution: Leak detection solutions should be rinsed off after use.
- 4.5. **Routine Maintenance Issues:**
 - Remove excessive dirt, grime and clutter from work areas.
 - Make sure all required guards and shields are in place.

- 4.6. Functional Test: Before initiating automatic operation, operate the system manually to make sure all required functions operate properly and safely.
- 4.7. Service or Replacement Intervals: It is the user's responsibility to establish appropriate service intervals. Valves, FRLs and vacuum products contain components that age, harden, wear, and otherwise deteriorate over time. Environmental conditions can significantly accelerate this process. Valves, FRLs and vacuum components need to be serviced or replaced on routine intervals.
- Service intervals need to be established based on:
- Previous performance experiences.
 - Government and / or industrial standards.
 - When failures could result in unacceptable down time, equipment damage or personal injury risk.
- 4.8. Servicing or Replacing of any Worn or Damaged Parts: To avoid unpredictable system behavior that can cause death, personal injury and property damage:
- Follow all government, state and local safety and servicing practices prior to service including but not limited to all OSHA Lockout Tagout procedures (OSHA Standard – 29 CFR, Part 1910.147, Appendix A, The Control of Hazardous Energy – Lockout / Tagout).
 - Disconnect electrical supply (when necessary) before installation, servicing, or conversion.
 - Disconnect air supply and depressurize all air lines connected to system and Pneumatic Division products before installation, service, or conversion.
 - Installation, servicing, and / or conversion of these products must be performed by knowledgeable personnel who understand how pneumatic products are to be applied.
 - After installation, servicing, or conversions air and electrical supplies (when necessary) should be connected and the product tested for proper function and leakage. If audible leakage is present, or if the product does not operate properly, do not put product or system into use.
 - Warnings and specifications on the product should not be covered or painted over. If masking is not possible, contact your local representative for replacement labels.
- 4.9. Putting Serviced System Back into Operation: Follow the guidelines above and all relevant Installation and Maintenance Instructions supplied with the valve FRL or vacuum component to insure proper function of the system.

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