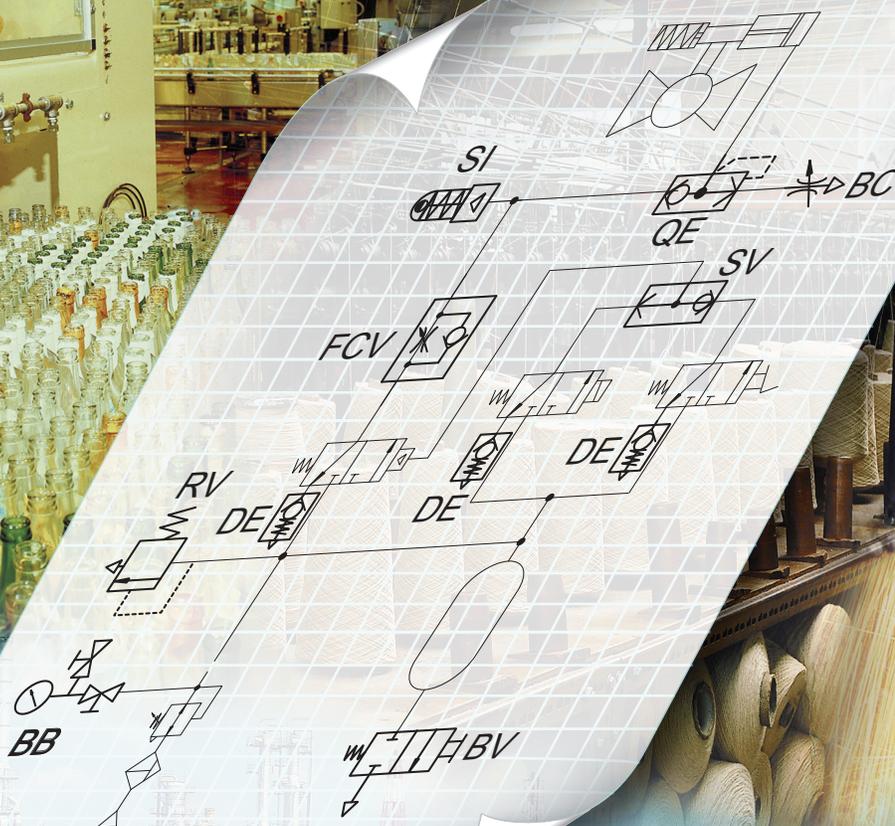




ACCESSORIES FOR AIR VALVES & AIR SYSTEMS



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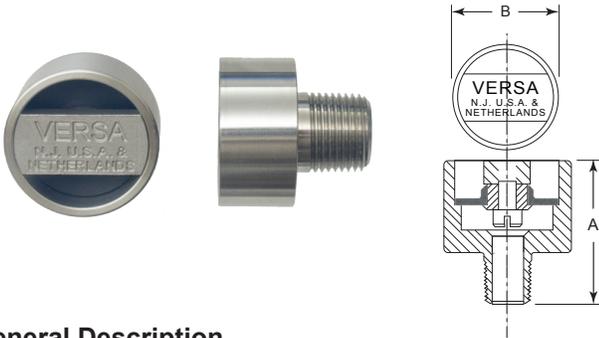
Warranty Back Cover

DUST EXCLUDERS VENT SCREENS

(For Pneumatic Application Only)

a range of unique Dust Excluders and Vent Screens made from Aluminum or 316 Stainless Steel

Dust Excluders



General Description

Versa Dust Excluders are available in aluminum and 316 Stainless Steel. They are screwed into the exhaust port of a directional control valve and offer effective protection against dirt, dust, moisture and insects entering the valve, through the exhaust port, without obstructing the flow.

Functional Description

The function of the Versa Dust Excluder is based on a flexible seal resting on a large diameter seat.

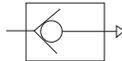
This principle offers:

- Tightly closed exhaust port
- Low 'break away' pressure
- Large flow capacity
- Self cleaning action.

Materials Aluminum body with NBR (Nitrile) seal
316 Stainless Steel body with CR (Neoprene) seal

Pressures Range: 0 to 200 psi (14 bar) pneumatic

Flow Symbol

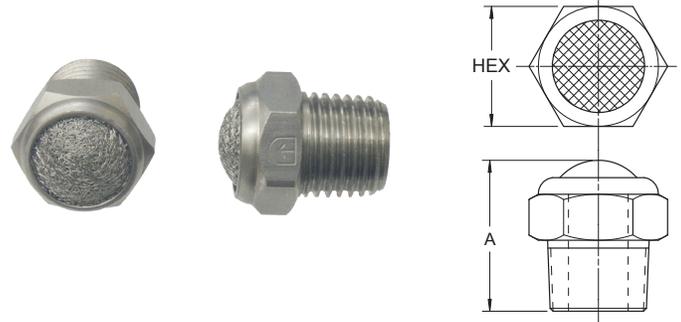


Mounting

For best protection Dust Excluders are preferably mounted such that the outlet opens to the side or down.

†conforms to NACE standard MR-01-75

Vent Screen



General Description

Versa Vent Screens are available in 316 Stainless Steel. Threaded into the exhaust port of a directional control valve they offer effective protection against dirt, dust and insects entering the valve, with minimal effect on flow.

Functional Description

The function of the Versa Vent Screen is based on a special designed stainless steel wire screen.

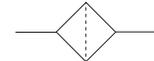
This principle offers:

- Low profile
- High mechanical resistance
- Sound damping
- Exceptional corrosion resistance

Materials 316 Stainless Steel

Pressures Range: 0 to 300 psi (20 bar) pneumatic

Flow Symbol



Mounting

For best protection Vent Screens are preferably mounted such that the outlet opens to the side or down.

†conforms to NACE standard MR-01-75

Sizes/Connections/Types/Dimensions/Weights

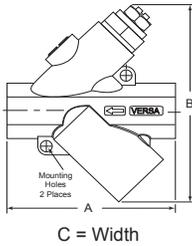
| D U S T E X C L U D E R | DUST EXCLUDER | | | | | | | | |
|--|---------------|----------------|------------------|-------------------------|------------|-----------------|-------------|---------------------|-----------------|
| | THREAD SIZE | PRODUCT NUMBER | | DIMENSIONS IN INCH (MM) | | | | Weights in lbs (kg) | |
| | | ALUMINUM | STAINLESS STEEL† | ALUMINUM | | STAINLESS STEEL | | ALUMINUM | STAINLESS STEEL |
| | | | A | B | A | B | | | |
| 1/8" NPT | DE-2 | | 1.56" (40) | 1.25" (32) | | | | 0.07 (0.03) | |
| 1/4" NPT | DE-3 | DE-3-316 | 1.56" (40) | 1.25" (32) | 1.18" (30) | 1.25" (32) | 0.07 (0.03) | 0.15 (0.07) | |
| 3/8" NPT | DE-4 | DE-4-316 | 1.62" (41) | 1.25" (32) | 1.25" (32) | 1.25" (32) | 0.07 (0.03) | 0.17 (0.08) | |
| 1/2" NPT | DE-5 | DE-5-316 | 1.62" (41) | 1.25" (32) | 1.25" (32) | 1.25" (32) | 0.07 (0.03) | 0.19 (0.09) | |
| 3/4" NPT | DE-6 | DE-6-316 | 2.0" (51) | 1.37" (35) | 2.0" (51) | 1.37" (35) | 0.11 (0.05) | 0.30 (0.13) | |
| 1" NPT | DE-7 | DE-7-316 | 2.0" (51) | 1.37" (35) | 2.0" (51) | 2.0" (51) | 0.12 (0.06) | 0.30 (0.13) | |

| V E N T S C R E E N | VENT SCREEN | | | | |
|--|-------------|-----------------------------|-------------|---------------|------------------|
| | THREAD SIZE | PRODUCT NUMBER MATERIAL 316 | A | HEX | WEIGHTS lbs (kg) |
| | | | | | |
| 1/8" NPT | MFS-2-316 | 0.69 (17.5) | .5 (12.7) | 0.02 (0.009) | |
| 1/4" NPT | MFS-3-316 | 0.88 (22.4) | .625 (15.9) | 0.038 (0.017) | |
| 3/8" NPT | MFS-4-316 | 1.00 (25.4) | .75 (19) | 0.04 (0.018) | |
| 1/2" NPT | MFS-5-316 | 1.19 (30.2) | 1.0 (25.4) | 0.048 (0.02) | |
| 3/4" NPT | MFS-6-316 | 1.50 (38.1) | 1.12 (28.4) | 0.08 (0.036) | |
| 1" NPT | MFS-7-316 | 1.63 (41.4) | 1.5 (38.1) | 0.08 (0.036) | |

FLOW CONTROL CHECK NEEDLE

a Family of Stainless Steel “FULL” Flow Control Valves

Flow Control Valve



C = Width

General Description

Versa Products Company's Flow Control Valve (FCV) is a 316 stainless steel, NACE compliant* device combining a check and needle valve to control the speed of pneumatic actuators and cylinders.

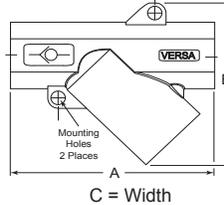
The FCV allows unrestricted full flow in one direction and adjustable flow in the reverse.

Functional Description

The key to Versa's full flow is the internal design and the Versa "shuttle." This combination provides a larger surface area and yields much higher flows than controls utilizing ball checks. When the flow is reversed, placing pressure on the "shuttle" it rapidly opens to a high flow orifice that instantly empties the volume in the line.

Flow adjustment is controlled by Versa's proven needle design from our "Bleed Control" family of products.

Check Valve



C = Width

General Description

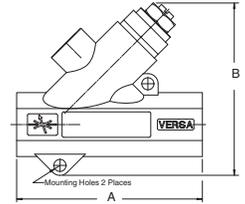
Versa Products Company's Check Valve (CV) is a 316 stainless steel, NACE compliant* device designed to prevent reverse flow in a pneumatic circuit.

The CV allows unrestricted full flow in one direction and blocked Bubble Tight flow in the reverse.

Functional Description

The Versa Check Valve uses a pilot spring assist "shuttle" to block the reverse flow. As the line pressure drops the "shuttle" is moved by the spring and air from the downstream side, into its seat, blocking reverse flow. The maintained air pressure and the spring assure a positive seal.

Needle Valve



C = Width

General Description

Versa Products Company's Needle Valve (NV) is a 316 stainless steel, NACE compliant* device designed to meter flow in a pneumatic circuit.

Functional Description

The flow can be gradually adjusted from zero (closed) to maximum (full open, 10 turns). Constant flow can be secured at the required setting by tightening the lock nut. Flow adjustment is controlled by Versa's proven needle design from our "Bleed Control" family of products.

Specifications FCV CV NV

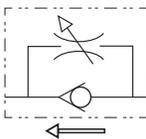
Materials: 316 Stainless Steel: Body, Shuttle, Cap, & valve stem; meets NACE*
Seals: FKM (standard), low temp Buna (option -44)

Mounting: In line with piping or by mounting holes provided. Not orientation sensitive.

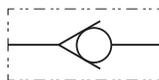
Temperature: 5° F to 300°F (-15°C to 149°C)
-40° F to 200°F (-40°C to 93°C) w/ option -44

Pressure: 400 psi (27.5 bar).

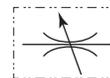
Flow Symbol



Flow Symbol



Flow Symbol



| Part number, Flow rate, Weight & Dimensions | | | | | | | | | | | | | | | | |
|---|----------------|----------------------|------------------------|------------------|----------------|------|------------------|----------------|----------|----------------------|-------------|-------------|-------------|-------------|-------------|-----------------|
| THREAD SIZE | PRODUCT NUMBER | Cv | | Weights lbs (kg) | CV | | NV | | | Dimensions Inch (mm) | | | | | | |
| | | Controlled Direction | Uncontrolled Direction | | PRODUCT NUMBER | Cv | Weights lbs (kg) | PRODUCT NUMBER | Cv | Weights lbs (kg) | A | B FCV | B CV | B NV | C | Mounting Hole Ø |
| ¼" | FCV-3-316 | 0** to 2.0 | 2.0 | 0.70 (0.32) | CV-3-316 | 2.0 | 0.54 (0.24) | NV-3-316 | 0 to 2.0 | 0.50 (0.22) | 2.5 (63.5) | 3.23 (82.0) | 2.3 (58.4) | 2.59 (65.7) | 1 (25.4) | .22 (5.6) |
| ½" | FCV-5-316 | 0** to 5.0 | 5.0 | 1.1 (0.5) | CV-5-316 | 5.0 | 0.86 (0.4) | NV-5-316 | 0 to 5.0 | 0.9 (0.4) | 3.35 (85.2) | 4.1 (104.1) | 2.84 (72.2) | 3.1 (79) | 1.25 (31.8) | .22 (5.6) |
| 1" | FCV-7-316 | 0** to 9.5 | 13.6 | 3.9 (1.8) | CV-7-316 | 13.6 | 3.1 (1.4) | — | — | — | — | — | — | — | — | — |

*conforms to NACE standard MR-01-75

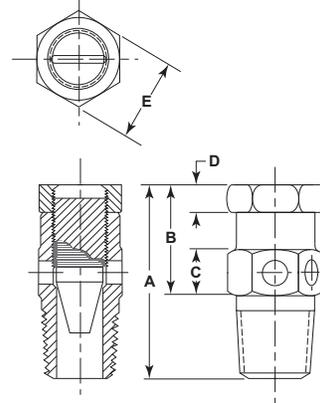
** Not pressure tight at shutoff for safety reasons

†For hydraulic service contact factory

BLEED CONTROL VALVES

(For Pneumatic application Only)

a range of Bleed Control Valves in different sizes, made of Brass or 316 Stainless Steel



General Description

Versa Bleed Control Valves provide an economical, effective flow control in pneumatic applications.

They can be screwed into the exhaust port of any Versa directional control valve to offer "built-in" cylinder speed control.

Functional Description

The Versa Bleed Control Valve has a precision machined needle. The flow area, through which the air - or any other gas - passes to the atmosphere, can be finely adjusted by turning the needle in or out. After the Bleed Control Valve has been adjusted to suit, it can be securely locked at its setting with the lock nut provided.

With a Versa 5/2 or 5/3 four-way valve - having a separate exhaust port for each side of a double acting cylinder - the speed in one direction of stroke may be set at a different speed than the other stroke.

Flow

Exhausting flow can be gradually adjusted from zero (closed) to maximum (full open). Constant flow can be secured at the required setting by tightening the lock nut.

Materials

All parts: - Brass or 316 Stainless Steel†

Pressure

Range: 0 to 200 psi (14 bar) air

Flow Symbol
valve exhaust port



Sizes/Connections/Types/Dimensions/Weights

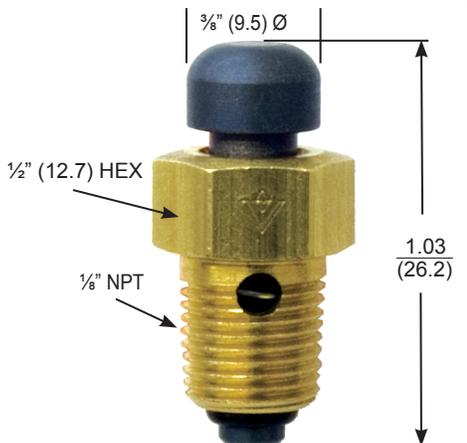
| CONNECTIONS | | PRODUCT NUMBER | | DIMENSIONS IN INCH (MM) | | | | | WEIGHTS |
|-------------|-------|-----------------|--------------|-------------------------|--------------|-------------|--------------|-------------|---------|
| PORT SIZE | BRASS | STAINLESS STEEL | A | B | C | D | E | lbs (Kg) | |
| 1/8" NPT | BC-2 | | 1.31" (33.3) | 0.75" (19.1) | 0.31" (7.9) | 0.19" (4.8) | 0.56" (14.3) | 0.07 (0.03) | |
| 1/4" NPT | BC-3 | BC-3-316 | 1.31" (33.3) | 0.75" (19.1) | 0.31" (7.9) | 0.19" (4.8) | 0.56" (14.3) | 0.08 (0.04) | |
| 3/8" NPT | BC-4 | BC-4-316 | 1.56" (39.7) | 0.94" (23.8) | 0.38" (9.5) | 0.25" (6.4) | 0.69" (17.5) | 0.13 (0.06) | |
| 1/2" NPT | BC-5 | BC-5-316 | 1.63" (41.3) | 1.00" (25.4) | 0.38" (9.5) | 0.25" (6.4) | 0.88" (22.2) | 0.15 (0.07) | |
| 3/4" NPT | BC-6 | BC-6-316 | 2.44" (61.9) | 1.50" (38.1) | 0.50" (12.7) | 0.25" (6.4) | 1.31" (33.3) | 0.55 (0.25) | |
| 1" NPT | BC-7 | BC-7-316 | 2.44" (61.9) | 1.50" (38.1) | 0.50" (12.7) | 0.25" (6.4) | 1.31" (33.3) | 0.62 (0.28) | |

†Conforms to NACE standard MR-01-75

BLEED VALVES

(For Pneumatic Applications Only)

a low cost, simple way to manually or mechanically control bleed functions



Functional Description

These versatile valves can be used to operate a bleed pilot control valve. Bleed valves are used to vent pressure from one end of the control valve to allow pressure from the opposite end to shift the spool, changing the flow pattern

Installation can be made directly on the pilot cap or at a remote location by simply running a single line from the bleed button valve to the pilot cap.

Materials

Body: Brass
Plunger & Spring: 440 & 302 Stainless Steel
Seals: NBR (Nitrile)

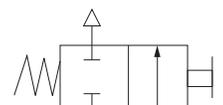
Pressures

Range: 0 to 200 psi (0 to 14 bar) air

Product Number

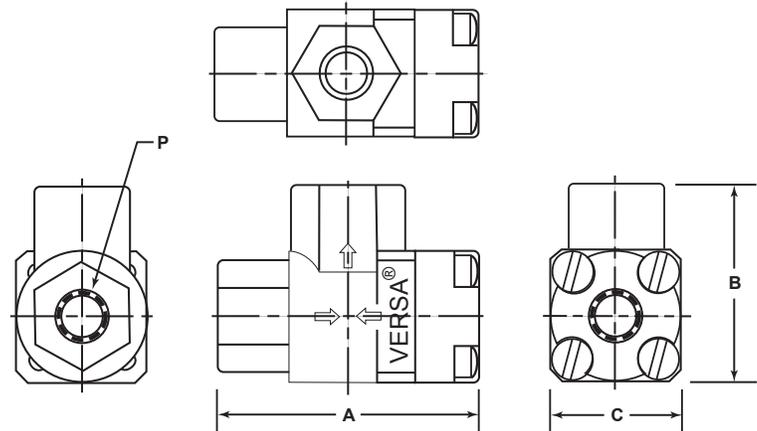
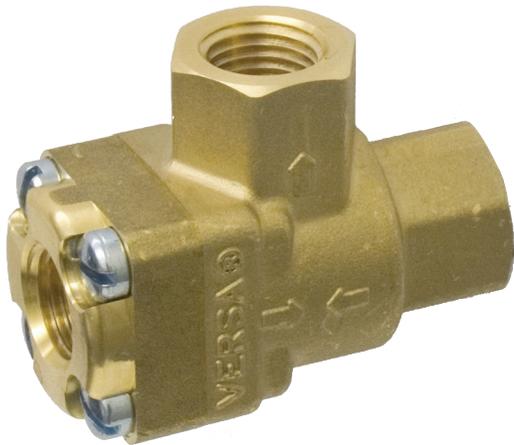
BV-2

Flow Symbol



SHUTTLE VALVES

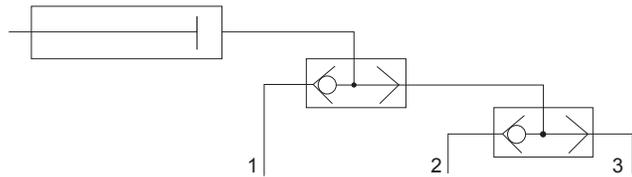
a range of Shuttle Valves made of 316 Stainless or Brass in various sizes



General Description

Versa Shuttle Valves are constructed of solid Brass or 316 Stainless Steel, with resilient seals providing tight shut off. Shuttle valves are 3/2 valves, primarily used to charge and discharge a pressure line or chamber from two - or more - sources.

A typical schematic is shown below:



Functional Description

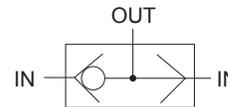
Shuttle Valves have a free moving shuttle that blocks one of two inlet ports while the other inlet port is connected to the (common) outlet port. When a pressure signal enters the port blocked by the shuttle, it will cause the shuttle to shift over to close the opposite inlet port. The shuttle will stay there while the line or chamber connected to the outlet port is charged and/or discharged and will only shift when pressure is applied to the inlet port it is blocking at that time.

In logic terms a shuttle valve is an 'OR' - function.

Pressures

Range: Pneumatic: 5 to 200 psi (0.35 to 14 bar)
Hydraulic: 5 to 500 psi (0.35 to 35 bar)

Flow Symbol



Mounting

Preferably with the center line of the two inlet ports horizontal. As shown in the drawing above

Materials

| | | |
|----------|---------------|----------------------|
| Type: | Brass | Stainless Steel |
| Body: | Brass | 316 Stainless Steel† |
| Shuttle: | Nylon (Zytel) | 316 Stainless Steel† |
| Seals: | NBR (Nitrile) | FKM (Fluorocarbon) |
| Screws: | Plated Steel | 316 Stainless Steel† |

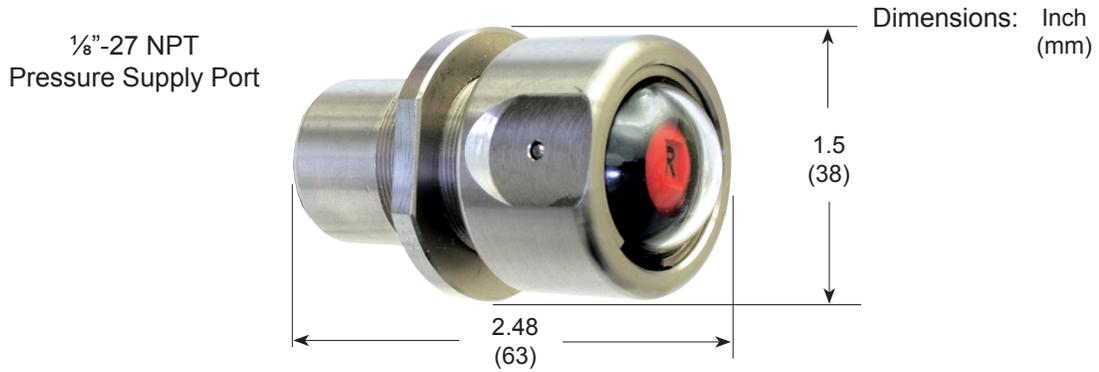
Sizes/Connections/Types/Dimensions/Weights

| "P" | Product Number | | Dimensions In Inch (mm) | | | Flow Cv | | Weights in lbs (kg) | |
|----------|----------------|-----------------|-------------------------|-----------|-----------|---------|-----------------|---------------------|-----------------|
| | Brass | Stainless Steel | "A" | "B" | "C" | Brass | Stainless Steel | Brass | Stainless Steel |
| 1/4" NPT | SV-3 | SV-3-316 | 2.0" (51) | 1.5" (38) | 1.0" (25) | 1.8 | 1.9 | 0.57 (0.26) | 0.33 (0.15) |
| 3/8" NPT | SV-4 | | 2.5" (64) | 1.9" (48) | 1.3" (32) | 4.5 | — | 1.10 (0.50) | — |
| 1/2" NPT | SV-5 | SV-5-316 | 2.5" (64) | 1.9" (48) | 1.3" (32) | 4.9 | 5.1 | 1.10 (0.50) | 0.65 (0.29) |
| 3/4" NPT | SV-6 | | 3.5" (89) | 2.8" (70) | 1.5" (38) | 7.3 | — | 2.16 (0.98) | — |

†conforms to NACE standard MR-01-75

STATUS INDICATOR

a Pressure Indicator, made from 316 Stainless Steel



General Description

Some applications require visual indication when a system is pressurized or when a system has lost pressure. The Versa Status Indicator provides such a display within a stainless steel shell that can be mounted as an integral part of a panel. Viewing the panel provides the operator with an instantaneous evaluation of the pressure condition in the system or systems being monitored.

Materials:

Body and internal wetted metal parts– 316 Stainless Steel†
 Working seals– FKM (Fluorocarbon)
 Lens–poly carbonate (sealed to prevent moisture intrusion), resistant to ultraviolet rays

Pressure Range:

0 to 200 psi (14 bar)

Functional Description

Versa's Status Indicator provides visual indication of pressure in a system. The standard product displays a green field when a minimum of 8 psi (0.55 bar) to a maximum of 200 psi (14 bar) is present. Complete loss of pressure causes the indicator to display a red field, marked with the recognition character "R". Other field colors are available. See Types/Weights below.

Mounting:

Panel hole opening 1" (25.4 mm) ø
 Can be mounted in any orientation with maximum panel thickness 0.50" (12.7 mm) with one panel nut; maximum panel thickness 0.21" (5.3 mm) with two panel nuts (suffix -43E)

*For hydraulic service consult factory.
 †conforms to NACE standard MR-01-75

Types/Weights

| Product Number | Operating Pressure Range | | Weights |
|----------------|--------------------------|--------------------------------------|-----------------------|
| | Depressurized | Pressurized | |
| SI-2-316 | 0 psi (0 bar) | 8 psi (0.55 bar) to 200 psi (14 bar) | } 0.50 lbs. (0.23 kg) |
| SI-2-316-403GR | Red (R) | Green | |
| SI-2-316-403YG | Green (G) | Red | |
| SI-2-316-403GY | Yellow (Y) | Green | |
| SI-2-316-403BG | Green (G) | Yellow | |
| SI-2-316-403BR | Black (B) | Green | |
| | Black (B) | Red | |

QUICK EXHAUST VALVES

(For Pneumatic Application Only)



QE-3-316
1/4" NPT x 3/8" NPT



QE-5-316
1/2" NPT x 3/4" NPT



QE-6-316
3/4" NPT x 1" NPT

General Description

A Quick Exhaust Valve is a 3/2 valve with extra large exhaust orifice, designed to be fitted directly at a cylinder port connection. The main purpose of a Quick Exhaust Valve is to get extra fast movement of the cylinder rod or valve actuator.

Functional Description

A quick Exhaust Valve is a three-ported valve with one inlet port, one cylinder port and a larger exhaust port.

When the inlet port is pressurized, the exhaust port is closed by the "Flapper" ("Shuttle" on QE-6-316) and the inlet port is connected to the cylinder port.

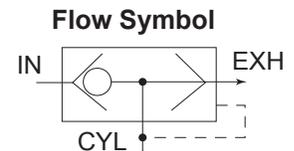
When pressure falls at the inlet of the Quick Exhaust Valve the cylinder port is automatically opened to the exhaust and the cylinder is rapidly depressurized.

Temperature range:

| | |
|---------------|----------------------------------|
| QE-3 | -20°F (-29°C) to +200°F (+93°C) |
| QE-3-316 | |
| QE-5-316 | |
| QE-6-316 | -30°F (-34°C) to +250°F (+121°C) |
| Standard | |
| Optional -EP* | -60°F (-51°F) to +300°F (+149°C) |

* Seal material: Ethylene Propylene

| Weights | lbs (kg) |
|----------|-------------|
| QE-3 | 1.12 (0.53) |
| QE-3-316 | 0.81 (0.37) |
| QE-5-316 | 2.16 (0.98) |
| QE-6-316 | 2.44 (1.11) |



Sizes / Connections / Product Numbers & Pressures / Materials / Flow

| Size* | | PRODUCT NUMBER | PRESSURES | FLOW Cv | | MATERIALS | | |
|-------------|----------|----------------|---------------------------|---------|---------|--------------------------------------|--|------------------------|
| Inlet & Cyl | Exhaust | | | Inlet | Exhaust | Body | Seals | Fasteners |
| 1/4" NPT | 3/8" NPT | QE-3 | 5-150 psi (0.35 - 10 bar) | 3.0 | 3.3 | Electroless Nickel plated Brass | FKM (Fluorocarbon) O rings CR (Neoprene) coated nylon flapper | 316 Stainless Steel |
| 1/4" NPT | 3/8" NPT | QE-3-316 | 5-150 psi (0.35 - 10 bar) | | | | | |
| 1/2" NPT | 3/4" NPT | QE-5-316 | 5-150 psi (0.35 - 10 bar) | 3.8 | 8.8 | Investment cast 316L Stainless Steel | | |
| 3/4" NPT | 1" NPT | QE-6-316 | 15-175 psi (1 - 12 bar) | 4.6 | 13.6 | (conforms to NACE MR-01-75) | | |

* For 1 1/2" Quick Exhaust consult factory

ELECTRIC QUICK EXHAUST VALVES

(For Pneumatic Application Only)

Functional Description

The Electric Quick Exhaust Valve is a three-way, NC, 3/2 valve with extra large exhaust orifice in order to provide extra fast movement of the cylinder rod, or to exhaust systems rapidly. When the solenoid is energized, the outlet port is connected to the inlet port and the exhaust port is closed. When the solenoid is de-energized, the inlet port is closed and the outlet port is connected to the exhaust port, providing rapid evacuation of the system.

Construction

Body: 316 Stainless Steel. (Conforms to NACE standard MR-01-75)
 Solenoid Operator: 304, 430F & 302 Stainless Steel (wetted parts)
 Seals: FKM (Fluorocarbon) O ring seals;
 CR (Neoprene) coated nylon flapper.
 Screws: Stainless Steel



| Function | Size | | E5QE | | | | | | E4QE | | | | EQE | | | |
|------------------------------------|-------|-------|---|---------|-------|---------------------|---------|---------|---------------------------------|---------------------|---------|---------|--|--------------------|---------|---------|
| | | | General purpose, NEMA 1 (none) General purpose, NEMA 4/4X (-PC) UL/CSA, flying lead 1/2" conduit hub (-XX) ATEX, flying leads M20 conduit hub (-XN) FM/CSA, Intrinsic Safe, DIN (-XIS*) | | | | | | CSA/ATEX, junction box (-XDB*1) | | | | ATEX, (m) junction box (-XMA*) ATEX, (i) junction box (-XIF*) | | | |
| 3-Way 3/2 Normally Closed | Basic | Ports | | | PSI | Part Number | Flow Cv | | PSI | Part Number | Flow Cv | | PSI | Part Number | Flow Cv | |
| | | Inlet | Outlet | Exhaust | | | Inlet | Exhaust | | | Inlet | Exhaust | | | Inlet | Exhaust |
| | 1/4 | 1/4 | 1/4 | 3/8 | 5-150 | E5QE-30304-316-*.** | 0.06 | 3.3 | 5-150 | E4QE-30304-316-*.** | 0.06 | 3.3 | | | | |
| | | | | | 5-100 | E5QE-30404-316-*.** | 0.106 | 3.3 | 5-125 | E4QE-30404-316-*.** | 0.106 | 3.3 | | | | |
| | 1/2 | 1/4 | 1/2 | 3/4 | 5-150 | E5QE-50304-316-*.** | 0.06 | 8.8 | 5-150 | E4QE-50304-316-*.** | 0.06 | 8.8 | 5-150 | EQE-50203-316-*.** | 0.022 | 8.8 |
| | | | | | 5-100 | E5QE-50404-316-*.** | 0.106 | 8.8 | 5-125 | E4QE-50404-316-*.** | 0.106 | 8.8 | 5-150 | EQE-50304-316-*.** | 0.06 | 8.8 |

* Specify Suffix Options from chart below. **Specify Voltage.

| SUFFIX CHART (for additional specifications Description contact factory) | Suffix | | |
|---|---------------------------------|-------------------------------|-----------------------------|
| General Purpose | E5QE | E4QE | EQE |
| NEMA 1, 1/2" Conduit, 24" wire leads (standard no suffix required) | None | | |
| NEMA 4, 4X 1/2" Conduit, 24" wire leads | -PC | | |
| Hazardous Location | | | |
| UL/CSA Explosion Proof, 1/2" Conduit, 24" wire leads. Other available options: -LB Low watt -PC Potted Coil -ST Stainless housing | -XX | | |
| ATEX/IEC Flame Proof (d), M20 Conduit, 24" wire leads. Other available options: -LB Low watt -PC Potted Coil -ST Stainless housing | -XN | NA | NA |
| FM/CSA Intrinsic Safe, Spade terminals. Other available options: -HC DIN Connector, Pg9 cord grip -HCC DIN Connector, 1/2" conduit Note: Part number changes to E5QE-30202-316 and E5QE-50202-316. Pressure is 5-115 psi (0.3-7.9 bar) and Inlet Flow is 0.02 Cv (.32 Kv) | -XISC (FM/CSA) -XISX6 (ATEX) | | |
| ATEX/IECEx/CSA Flame Proof (d), Increased Safety(e), Enclosure/Dust (td) Class I, Div I, Grp B,C,D - Class I, Div II, Grp E,F,G- Class I, Div III, integral junction box | | -XDBS1 (M20) -XDBT1 (1/2") | |
| ATEX/IECEx Encapsulated (mb), Increased Safety (e) Enclosure/Dust (td) integral junction box | NA | NA | -XMAA (M20) -XMAF (1/2") |
| Intrinsic Safe (ia), integral junction box | | | -XIFA (M20) -XIFF (1/2") |

HAZARDOUS LOCATION JUNCTION BOX

CSA, ATEX, IEC & INMETRO Approved!

Versa Products Company, Inc. offers a stainless steel junction box with terminals to allow the installation of equipment such as solenoid valves, switches, indicators and other electronic devices. These small effective boxes allow easy wiring in hazardous wet locations simplifying insulation and reduced space. Simple screw off cover design reduces the hassle of lost parts and screws at installation. These explosion and weather protected electrical boxes are manufactured to be certified in accordance with agencies around the world. The junction box is manufactured in stainless steel assuring resistance to environmental issues yielding a long durable product life.

| Specifications: | |
|---------------------------|---|
| Description: | Junction Box |
| Area Certification: | ATEX/IECEX/INMETRO Ex d e IIC Gb *CSA Class I, Div. 1 Groups B, C, D *CSA Class II, Div. 1 Groups E, F and G; Class III |
| Ingress Protection: | IP 66 |
| Materials of Construction | |
| Body: | 316 Stainless Steel |
| Cover: | 316 Stainless Steel |
| Seal: | Viton |
| Connections: | 1/2" NPT or M20 (2 places) Integral 2 or 4 position terminal strip |

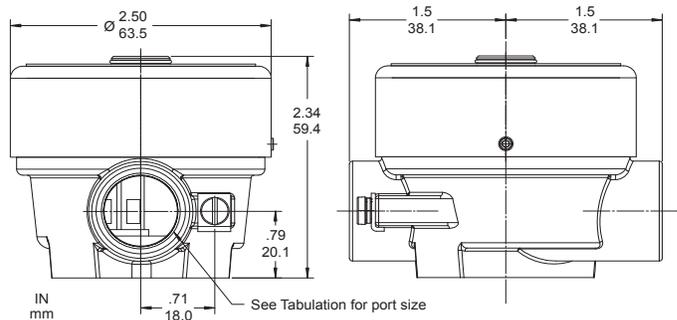
*CSA 1/2" NPT conduit hub only.

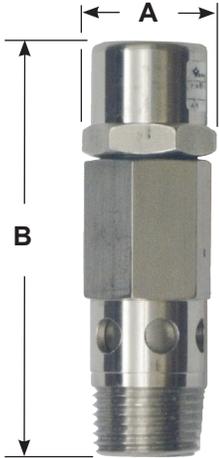


Agency Approvals



| Part Number | 1/2" NPT* | M20 | 2 position | 4 position |
|------------------|-----------|-----|------------|------------|
| P-1102-27V-VJBT | X | | X | |
| P-1102-27V-VJBTC | X | | | X |
| P-1102-27V-VJBS | | X | X | |
| P-1102-27V-VJBSC | | X | | X |





PRESSURE RELIEF VALVE

1/4" and 1/2" NPT, 316 stainless steel, high flow pressure relief valve, with factory set and tested pressure settings (For Pneumatic Application Only)

| Size | Part Number | Pressure Range | Weight | | Dimension | |
|----------|-------------|----------------|--------|------|-----------|-------|
| | | | lbs | kg | A | B |
| 1/4" NPT | RV-3-316-* | 30 to 150 psi | 0.16 | 0.07 | 0.69" | 2.13" |
| 1/2" NPT | RV-5-316-* | 15 to 150 psi | 0.38 | 0.17 | 0.875" | 3.06" |

* Add relief pressure to part number in 5 psi increments from 60 to 150 psi for 1/4" & 15 to 150 psi for 1/2".

Block & Bleed

a Block and Bleed gauge monitoring valve assembly



BB-3-316

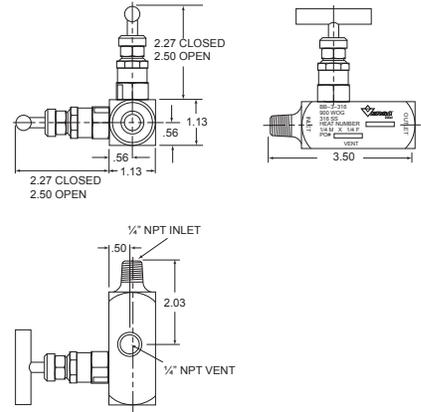
Materials:

Body and valve stems:
316 Stainless Steel

Pressures:

Operating Pressure Range:
0 to 800 psig (0 to 54.4 bar)

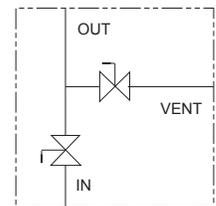
Media: Water, Oil & Gas



The Versa Block and Bleed valve is a traditional isolation valve. It consists of "block" and "vent" needle valves to isolate and vent downstream pressure during gauge changes.



AR-190-316-1 valve extension



Versa
 has been
 supplying the
 oil and gas
 industry with
 pneumatic
 and hydraulic
 components
 for over 50
 years. We
 have built a
 reputation
 for quality
 that is
 unsurpassed
 in the market
 for high
 performance
 solenoids,
 pneumatic
 relays, resets
 and pilot
 valves

WARNINGS REGARDING THE DESIGN APPLICATION, INSTALLATION AND SERVICE OF VERSA PRODUCTS

The warnings below must be read and reviewed before designing a system utilizing, installing, servicing, or removing a Versa product. Improper use, installation or servicing of a Versa product could create a hazard to personnel and property.

DESIGN APPLICATION WARNINGS

Versa products are intended for use where compressed air or industrial hydraulic fluids are present. For use with media other than specified or for non-industrial applications or other applications not within published specifications, consult Versa.

Versa products are not inherently dangerous. They are only a component of a larger system. The system in which a Versa product is used must include adequate safeguards to prevent injury or damage in the event of system or product failure, whether this failure be of switches, regulators, cylinders, valves or any other system component. System designers must provide adequate warnings for each system in which a Versa product is utilized. These warnings, including those set forth herein, should be provided by the designer to those who will come in contact with the system.

Where questions exist regarding the applicability of a Versa product to a given use, inquiries should be addressed directly to the manufacturer. Confirmation should be obtained directly from the manufacturer regarding any questioned application prior to proceeding.

INSTALLATION, OPERATION AND SERVICE WARNINGS

Do not install or service any Versa product on a system or machine without first depressurizing the system and turning off any air, fluid, or electricity to the system or machine. All applicable electrical, mechanical, and safety codes, as well as applicable governmental regulations and laws must be complied with when installing or servicing a Versa product.

Versa products should only be installed or serviced by qualified, knowledgeable personnel who understand how these specific products are to be installed and operated. The individual must be familiar with the particular specifications, including specifications for temperature, pressure, lubrication, environment and filtration for the Versa product which is being installed or serviced. Specifications may be obtained upon request directly from Versa. If damages should occur to a Versa product, do not Operate the system containing the Versa product. Consult Versa for technical information.

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 Fax: 201-843-2931

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 The Netherlands
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 Fax: 01131-55-368-1909

LIMITED WARRANTY DISCLAIMER AND LIMITATION OF REMEDIES

Versa's Series products are warranted to be free from defective material and workmanship for a period of ten years from the date of manufacture, provided said products are used in accordance with Versa specifications. Versa's liability pursuant to that warranty is limited to the replacement of the Versa product proved to be defective provided the allegedly defective product is returned to Versa or its authorized distributor. Versa provides no other warranties, expressed or implied, except as stated above. There are no implied warranties of merchantability or fitness for a particular purpose. Versa's liability for breach of warranty as herein stated is the only and exclusive remedy and in no event shall Versa be responsible or liable for incidental or consequential damages.



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