

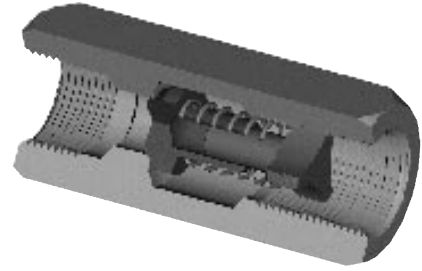
Check Valves

C-Series

Especially designed for the control of hydraulic and pneumatic systems. Allows full-flow in one direction only.

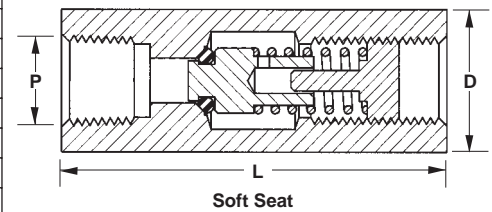
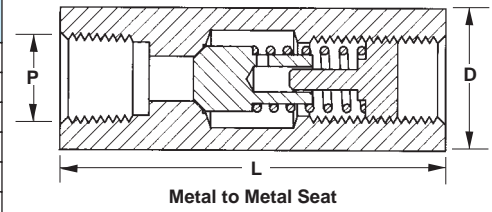
Features:

- Efficient in line design provides high flow capability with low pressure drop.
- Soft seat poppet assures leak free service. Durable all metal poppets standard on all other models.
- Steel valves are zinc plated with "golden glow" chromate for double corrosion protection.
- Versatile design can be mounted in any position.



Ordering Information:

| Part Number | Seating Option | Inlet/Outlet Connections FNPT P | Length L | Wrenching Hex Size D | Cv | Maximum Operating Pressure |
|-------------------------------------|----------------|---------------------------------|----------|----------------------|-----|----------------------------|
| Stainless Steel Check Valves | | | | | | |
| C250SS | METAL | 1/4" | 2 3/8" | 13/16" | .87 | 5000 PSIG |
| C375SS | METAL | 3/8" | 2 1/2" | 1" | 2.3 | 5000 PSIG |
| C500SS | METAL | 1/2" | 3" | 1 1/8" | 3.5 | 5000 PSIG |
| C750SS | METAL | 3/4" | 3 5/8" | 1 1/2" | 5.2 | 5000 PSIG |
| C250SSL | SOFT | 1/4" | 2 3/8" | 13/16" | .87 | 250 PSIG |
| C375SSL | SOFT | 3/8" | 2 1/2" | 1" | 2.3 | 250 PSIG |
| C500SSL | SOFT | 1/2" | 3" | 1 1/8" | 3.5 | 3000 PSIG |
| C750SSL | SOFT | 3/4" | 3 5/8" | 1 1/2" | 5.2 | 3000 PSIG |
| Brass Body Check Valves | | | | | | |
| C250B | METAL | 1/4" | 2 3/8" | 13/16" | .87 | 3000 PSIG |
| C375B | METAL | 3/8" | 2 1/2" | 1" | 2.3 | 3000 PSIG |
| C500B | METAL | 1/2" | 3" | 1 1/8" | 3.5 | 3000 PSIG |
| C750B | METAL | 3/4" | 3 5/8" | 1 1/2" | 5.2 | 3000 PSIG |
| C250BL | SOFT | 1/4" | 2 3/8" | 13/16" | .87 | 250 PSIG |
| C375BL | SOFT | 3/8" | 2 1/2" | 1" | 2.3 | 250 PSIG |
| C500BL | SOFT | 1/2" | 3" | 1 1/8" | 3.5 | 3000 PSIG |
| C750BL | SOFT | 3/4" | 3 5/8" | 1 1/2" | 5.2 | 3000 PSIG |
| Steel Check Valves | | | | | | |
| C250S | METAL | 1/4" | 2 3/8" | 13/16" | .87 | 5000 PSIG |
| C375S | METAL | 3/8" | 2 1/2" | 1" | 2.3 | 5000 PSIG |
| C500S | METAL | 1/2" | 3" | 1 1/8" | 3.5 | 5000 PSIG |
| C750S | METAL | 3/4" | 3 5/8" | 1 1/2" | 5.2 | 5000 PSIG |
| C250SL | SOFT | 1/4" | 2 3/8" | 13/16" | .87 | 250 PSIG |
| C375SL | SOFT | 3/8" | 2 1/2" | 1" | 2.3 | 250 PSIG |
| C500SL | SOFT | 1/2" | 3" | 1 1/8" | 3.5 | 3000 PSIG |
| C750SL | SOFT | 3/4" | 3 5/8" | 1 1/2" | 5.2 | 3000 PSIG |



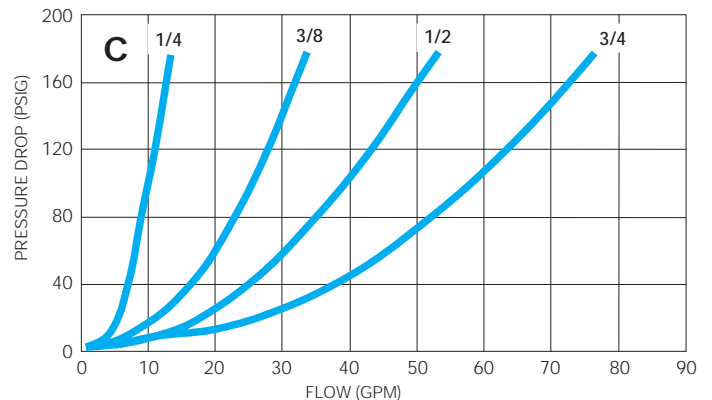
Specifications:

| | |
|----------------------------|--|
| Maximum Operating Pressure | See Ordering Information |
| Temperature Range | -20°F to +212°F |
| CV Factor | See Ordering Information |
| Cracking Pressure | 5 PSIG Standard, call for other settings |

Materials:

| | |
|---------------------|--|
| Body | ASTM B 16 Brass, 12L14 Steel, or 303 Stainless Steel |
| Spring | Stainless Steel |
| Piston | Stainless Steel |
| Piston Seat - soft- | Viton |

Performance



Check Valves

BC & PC Series

Compact, versatile design for the control of air and liquids.
Allows full-flow in one direction.

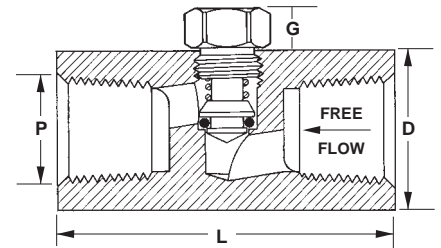
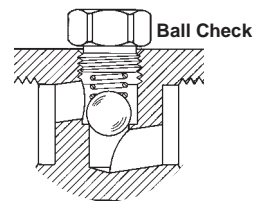
Features:

- Piston check design for leak-free air service.
- Ball check design for heavy duty liquid service.
- Low cracking pressures and smooth operation provide efficient service.
- Steel valves are zinc-plated and sealed with "golden glow" chromate for double corrosion protection.



Ordering Information:

| Part Number | Body Material | Check Style | P (NPT) Female | D (In.) Hex | L (In.) | G (In.) | Orifice Diameter (In.) | CV | Cracking Pressure (PSIG) |
|-------------|---------------|-------------|----------------|-------------|----------|---------|------------------------|-----|--------------------------|
| PCI25B | Brass | Piston | 1/8 | 1 1/16 | 1 1/2 | 9/32 | .203 | .21 | 10 |
| PC250B | | | 1/4 | 7/8 | 2 | 5/16 | | | |
| PC375B | | | 3/8 | 1 1/16 | 2 1/4 | 1 1/32 | | | |
| PC500B | | | 1/2 | 1 5/16 | 2 2 1/32 | 3/8 | | | |
| BC125B | Brass | Ball | 1/8 | 1 1/16 | 1 1/2 | 9/32 | .203 | .21 | 11 |
| BC250B | | | 1/4 | 7/8 | 2 | 5/16 | | | |
| BC375B | | | 3/8 | 1 1/16 | 2 1/4 | 1 1/32 | | | |
| BC500B | | | 1/2 | 1 5/16 | 2 2 1/32 | 3/8 | | | |
| BC250S | Steel | Ball | 1/4 | 7/8 | 2 | 5/16 | .203 | .45 | 7 |
| BC375S | | | 3/8 | 1 1/16 | 2 1/4 | 1 1/32 | | | |
| BC500S | | | 1/2 | 1 5/16 | 2 2 1/32 | 3/8 | | | |
| BC750S | | | 3/4 | 1 5/8 | 3 | 1 5/32 | | | |



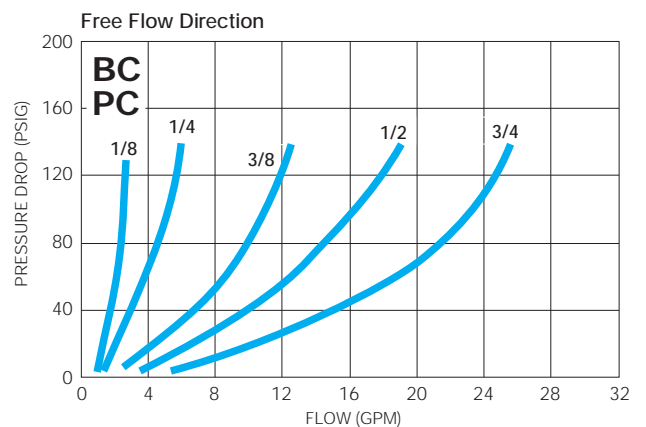
Specifications:

| | |
|----------------------------|------------------------------------|
| Maximum Operating Pressure | |
| "BC" Models | 5000 PSIG Steel 2000 PSIG Brass |
| "PC" Models | 2500 PSIG Steel 2000 PSIG Brass |
| Temperature Range | -20°F to +212°F |
| CV Factor | See Ordering Information |

Materials:

| | |
|--------------------------------|-----------------------------------|
| Body | 12L14 Steel or ASTM B16 Brass |
| Piston Assembly "PC" Models | Stainless Steel with Viton O-Ring |
| Ball, "BC" Models | Stainless Steel |
| Spring | Stainless Steel |
| Plug | Steel or Brass |

Performance



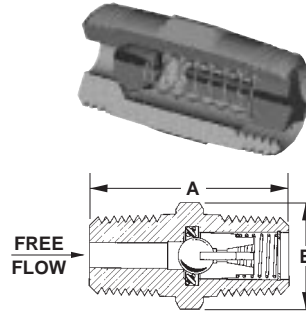
Check Valves

CMM Series

Space saving, in-line design for the control of air and liquids.

Features:

- Metal to Metal seal for leak-free liquid service.
- O-ring design for leak-free air service.
- Steel valves are zinc-plated and sealed with clear chromate for double corrosion protection.



Specifications:

| | |
|----------------------------|--------------------------|
| Maximum Operating Pressure | See Ordering Information |
| Temperature Range | -20°F to +400°F |
| Cracking Pressure | See Ordering Information |
| CV Factor | See Ordering Information |

Ordering Information:

| Part Number | Body Material | Seal | Port Size (NPT) Male | A (In.) | B (In.) Hex | Orifice Diameter (In.) | CV | Cracking Pressure (PSIG) | Maximum Pressure (PSIG) |
|-------------|---------------|-------|----------------------|---------|-------------|------------------------|----|--------------------------|-------------------------|
| CMM250B | Brass | Metal | 1/4 | 1 5/32 | 9/16 | 3/16 | .5 | 7 | 1000 |
| CMM250B-L | | Viton | | | | | | | |
| CMM375B | | Metal | | | | | | | |
| CMM250S | Steel | Metal | 1/4 | 1 5/32 | 9/16 | 3/16 | .5 | 7 | 3000 |
| CMM250S-L | | Viton | | | | | | | |
| CMM375S | | Metal | | | | | | | |

Materials:

| | |
|----------|--------------------------------|
| Body | ASTM B 16 Brass or 12L14 Steel |
| Ball | Stainless Steel |
| Retainer | Brass or Steel |
| Spring | Stainless Steel |

8830E Excess Flow Check Series

Designed to automatically close when air flow exceeds a safe level. For use on all compressed air hoses leading to air tools and pneumatic components.

Features:

- Re-sets automatically.
- In-line design for easy installation.

Operation:

During normal operation, a specially molded seal (A) is held away from its seat (B) by spring (C). Air flow is allowed to pass through the orifice (D). When a sudden surge of air flow occurs which exceeds the rated flow of the valve, the resulting pressure differential forces the spring to compress and the seal to contact its seat as in figure 2. After the cause of the higher air flow is repaired, air passing through orifice (E) slowly builds downstream pressure until the differential is low enough for the spring to return the seal to its normal position.

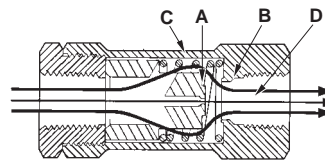
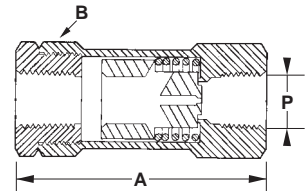
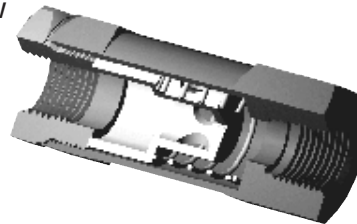


fig. 1 Normal flow condition

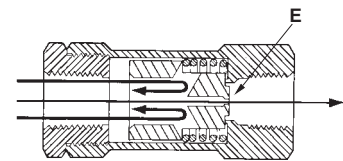


fig. 2 Shut-off condition

Specifications:

| | |
|----------------------------|-----------------|
| Maximum Operating Pressure | 250 PSIG Air |
| Temperature Range | -40°F to +250°F |

Materials:

| | |
|--------|-----------------|
| Body | Aluminum |
| Seat | Delrin |
| Spring | Stainless Steel |

Ordering Information:

| Part Number | P (NPT) Female | A (In.) | B (In.) Hex | Approximate closing flow rate (Standard cubic feet per minute/air) | | | | | | | Pressure Drop to Close Valve @ 100 PSIG |
|-------------|----------------|---------|-------------|--|-----|-----|-----|-----|-----|-----|---|
| | | | | (Inlet Pressure PSIG) | | | | | | | |
| | | | | 25 | 50 | 90 | 125 | 150 | 200 | 250 | |
| 8830E3 | 3/8 | 3 1/2 | 1 3/8 | 29 | 38 | 48 | 56 | 60 | 69 | 76 | 1 1/2 to 3 |
| 8830E4 | 1/2 | | | 50 | 65 | 80 | 90 | 100 | 115 | 125 | 3 to 5 |
| 8830E6 | 3/4 | 5 | 2 1/4 | 140 | 175 | 200 | 260 | 280 | 320 | 360 | 1 1/2 to 4 |
| 8830E8 | 1 | | | 210 | 265 | 340 | 395 | 425 | 490 | 540 | 5 to 7 |

*To obtain closing flow rates at an inlet pressure, P, that is not shown above, use the following formula:

$$\text{Closing Flow} = \frac{\text{SCFM at 100 PSIG}}{(P + 14.7) / 104.7}$$

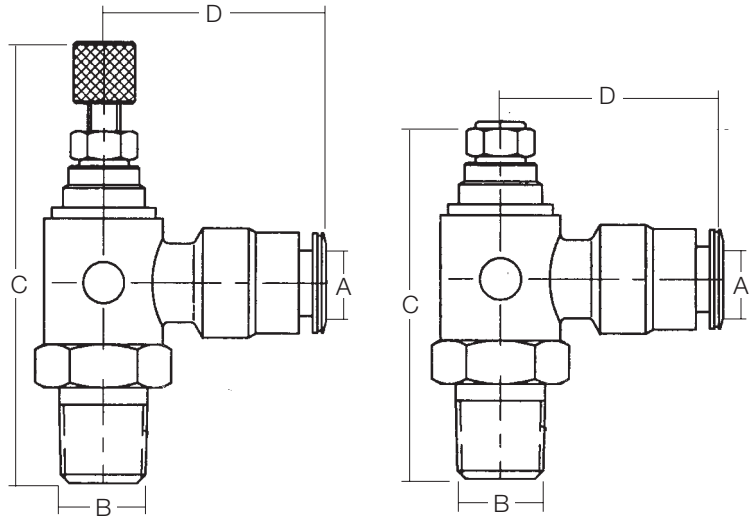
Compact Pneumatic Flow Controls With Push-In-Tube Connection

Features:

- Compact design permits mounting directly on pneumatic cylinder.
- Push-In-Tube connections allow convenient tube assembly without the need for tools or other components.
- Tubing easily installed by pushing into outlet and released by pressing collet and pulling.
- Available with convenient knurled knob or tamper resistant recessed screwdriver slot.
- Valves are nickel plated for corrosion protection.
- Unique cup seal provides positive seal during metered flow.
- Precision long-tapered stem provides accurate control.
- Tube Port rotates fully after mounting.

Specifications:

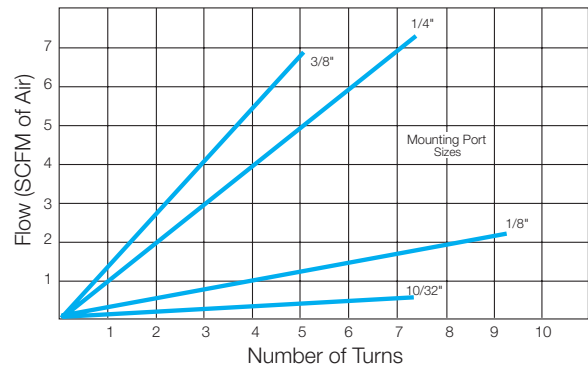
Operating Pressure 15 to 150 PSIG
 Temperature Range +32° F to +176° F
 Body Material OT58 Brass Body with Nickel Plating
 Seal Material Buna-N



Ordering Information:

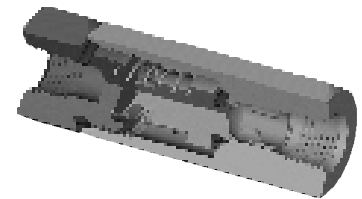
| Part Number | Actuation | A Tube Port O.D. | B Mounting Port | C Height (Valve Open) | D | |
|-------------|---------------------------|------------------|-----------------|-----------------------|----------|---------|
| RAM 53-02 | Knurled Knob | 5/32" | 1/8" NPT | 1 1/8" | 7/8" | |
| RAM 4-02 | | 1/4" | | | | 1 1/16" |
| RAM 4-04 | | 3/8" | 1/4" NPT | | 2 1/4" | 1 1/8" |
| RAM 6-04 | | | 3/8" NPT | | 2 5/8" | 1 3/16" |
| RAM 6-06 | Recessed Screwdriver Slot | 5/32" | 1/8" NPT | 1 1/2" | 7/8" | |
| RAS 4-02 | | 1/4" | | | | 1 3/16" |
| RAS 4-04 | | 3/8" | 1/4" NPT | | 1 5/8" | 1 1/8" |
| RAS 6-04 | | | 3/8" NPT | | 1 13/16" | 1 3/16" |
| RAS 6-06 | | | | | | |

Performance



CW-series check valves

- A check valve specifically designed and manufactured for the car wash/pressure washing industry.
- Unique two piece construction allows the user to dis-assemble the valve, clean and replace seals as necessary.
- Both valves which are available in 1/4" and 3/8"NPTF contain O-rings of Viton7 and Buna-N for long-lasting durability.
- Maximum operating pressure on each valve is 200 psi.
- Cracking pressure is 5 psig.



| Valve Number | Material | Thread (Both Ends) | A - Length (in) | B - Width (in) |
|--------------|---------------------|--------------------|-----------------|----------------|
| CW250BL | ASTM B 16 Brass | 1/4 NPTF | 3.03 | 1.00 |
| CW375BL | ASTM B 16 Brass | 3/8 NPTF | 3.03 | 1.00 |
| CW250SSL | 303 Stainless Steel | 1/4 NPTF | 3.03 | 1.00 |
| CW375SSL | 303 Stainless Steel | 3/8 NPTF | 3.03 | 1.00 |

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