

THE SPECIALTY MFG. CO.

5858 Centerville Road
St. Paul, MN 55127

Custom Is Our Specialty

ISO 9001:2015

MADE IN THE USA

The Specialty Mfg. Co. will quote alternate materials or customize our standard products when quantities ensure competitive pricing. **Contact Customer Service** at (651) 653-0599
FAX - (651) 653-0989
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810 SERIES PISTON CHECK VALVE

[Click here to design your valve in 3D using our online configurator.](#)



Design Considerations

- Incorporates piston with an embedded o-ring that seals on the seat
- Pressure in flow direction moves piston and seal off seat, exposing cross holes in the piston
- Compact design and has positive seal at very low back pressure or slight vacuum

Order Example:

Material	Inlet Port	Outlet Port	Seal	Spring
Brass	1/2 FNPT	1/2 MNPT	Viton®	5 psi

Part Numbers are a description of the valve as read left to right, Inlet Port to Outlet Port.

CHK BRS 810-8F8M-F, 5# = Brass Body and Ends, Piston Check Valve, 1/2 Female NPT Inlet x 3/8 Male NPT Outlet, Viton® Seals, 5 psi Spring

Material Option	BODY and PISTON – 316 Stainless, Brass RETAINER – 15-7 Stainless, Beryllium Copper
Plating Option	No Plating, Electroless Nickel Plating
Body Option	1/2 Female NPT Inlet x 1/2 Male NPT Outlet 1/2 Male NPT Inlet x 1/2 Male NPT Outlet *Brass Only* 1/2 Male NPT Inlet x 1/2 Female NPT Outlet
Seal Option	Buna-N, Ethylene Propylene, Fluoroelastomer (Viton®), Neoprene, Extreme Viton®, Aflas®, Perfluorelastomer, Silicone
Spring Option: Material – Cracking Pressure	302 Stainless – .33 psi, .5 psi, 1 psi, 2 psi, 5 psi, 12 psi No spring
Cv Value	2.2
Full Port	.375 in
Maximum Operating Pressure	500 psi
Temperature Range	*** NOT RATED FOR STEAM *** Buna-N -35°F to +250°F Ethylene Propylene (EPDM) -65°F to +300°F Fluoroelastomer (Viton®) -15°F to +400°F Neoprene -35°F to +250°F Extreme Viton® -6°F to +437°F Perfluorelastomer +5°F to +550°F Aflas® +25°F to +450°F Silicone -65°F to +400°F
Compatibility Statement	It is the sole responsibility of the system designer and user to select products suitable for their specific application requirements and to ensure proper installation, operation, and maintenance of these products. Material compatibility, product ratings and application details should be considered in the selection. Improper selection or use of products described herein can cause personal injury or product damage.
Pricing and Minimum Order Requirement	Our Minimum Order Requirements are \$150.00 Domestic - \$250.00 International. Pricing is based on the quantity ordered. Please indicate a typical order quantity or Estimated Annual Usage when requesting pricing.