

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
E-Mail - info@specialtymfg.com

450 SERIES POPPET CHECK VALVE

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



Design Considerations

- Poppet provides a positive seal down to approx. 1/2 psi back pressure
- Standard body is a one piece design
- Optional 45 degree flare ends are available on the alternate multi-end body
- UL / UR configurations are available and rated to 500 psi

Order Example:

Material	Inlet Port	Outlet Port	Seal	Spring
Brass	1/4 FNPT	1/4 FNPT	Viton®	1 psi

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

CHK BRS 450-4F4F-F = Brass Body and Ends, Poppet Check Valve, 1/4 Female NPT Inlet x 1/4 Female NPT Outlet, Viton® Seals, 1 psi Spring

Material Option	BODY, POPPET and STOP – Brass
Plating Option	No Plating, Electroless Nickel Plating
Body Option	1/4 Female NPT Inlet x 1/4 Female NPT Outlet 3/8 Male NPT Inlet x 1/4 Female NPT Outlet 1/4 Female Flare Inlet x 1/4 Male Flare Outlet 1/4 Male Flare Inlet x 1/4 Male Flare Outlet 1/4 Male Flare Inlet x 1/4 Female Flare Outlet 3/8 Male Flare Inlet x 3/8 Male Flare Outlet
Seal Option	Buna-N, Ethylene Propylene, Fluoroelastomer (Viton®), Neoprene
Spring Option: Material – Cracking Pressure	302 Stainless – 1 psi No spring
Cv Value	Varies, contact us to discuss
Full Port	.280 in
Maximum Operating Pressure	1200 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
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.