



Vertically Integrated, Made in the USA  
www.specialtymfg.com

## THE SPECIALTY MFG. CO.

5858 Centerville Road  
St. Paul, MN 55127

SMC will quote alternate materials or customize our standard products when quantities ensure competitive pricing.

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## 105 SERIES PISTON CHECK VALVE

1/2" NPT



### Design Considerations

- The 105 Series Piston Check Valve incorporates a 303 stainless steel piston with an embedded o-ring that seals on the seat.
- Pressure in the flow direction moves the piston and seal off the seat and exposes the cross holes in the piston.
- Maximum Operating Pressure of 1,000 psi covers a wide range of air and fluid applications.
- Positive seal at very low back pressure or slight vacuum.

### **Example of how to order**

<u>Material</u>	<u>Inlet Port</u>	<u>Outlet Port</u>	<u>Seal</u>	<u>Spring</u>
Brass	1/2 FNPT	1/2 FNPT	Buna	2.5 psi

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

**CHK BRS 105-8F8F-B,2.5#** = Brass Check Valve, 1/2 Female NPT Inlet x 1/2 Female NPT Outlet, Buna Seals, 2.5 psi Spring

### Specifications

<b>Material</b>	BODY - Brass, PISTON - 303 Stainless
<b>Body Option</b>	1/2 Female NPT Inlet x 1/2 Female NPT Outlet
<b>Seal Option</b>	Buna-N, Ethylene Propylene, Fluoroelastomer (Viton®), Neoprene *** Please ask us about Seal Materials not listed above. ***
<b>Plating Option</b>	No Plating Electroless Nickel Plating
<b>Spring Option: Cracking Pressure and Material</b>	2.5 psi - 302 Stainless 12 psi - 302 Stainless
<b>Maximum Flow Diameter</b>	0.442 in
<b>Cv</b>	3.8 with 1/2 Female NPT Ends
<b>Maximum Operating Pressure</b>	1000 psi
<b>Maximum Operating Temperature</b>	*** <b>NOT RATED FOR STEAM</b> ***  Buna-N -10°F to +250°F Ethylene Propylene (EPDM) -50°F to +300°F Fluoroelastomer (Viton®) -10°F to +375°F Neoprene -40°F to +250°F
<b>Compatibility Statement</b>	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.
<b>Pricing and Minimum Order Requirement</b>	Our Minimum Order Requirements are \$100.00 Domestic - \$250.00 International. Pricing is based on the quantity ordered. <b>Please indicate a typical order quantity or Estimated Annual Usage when requesting pricing.</b>

