

THE SPECIALTY MFG. CO.

Custom Is Our Specialty

5858 Centerville Road
St. Paul, MN 55127

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
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490 SERIES BALL CHECK VALVE

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



Design Considerations

- Designed for high pressure – light hydraulics, high pressure fluid or air applications where a positive seal is required
- Incorporates stainless ball on an elastomer seat with multiple end configuration options
- Will have a positive seal at very low back pressure or slight vacuum

Order Example:

<u>Material</u>	<u>Inlet Port</u>	<u>Outlet Port</u>	<u>Seal</u>	<u>Spring</u>
Brass	1/4 MNPT	1/4 FNPT	Buna-N	1 psi

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

CHK BRS 490-4M4F-B = Brass Body and Ends, Ball

Check Valve, 1/4 Male NPT Inlet x 1/4 Female NPT Outlet, Buna-N Seals, 1 psi Spring

Material Option	BODY and RETAINER – Brass BALL - 316 Stainless Steel
Plating Option	No Plating, Electroless Nickel Plating
Inlet Option	Female NPT - 1/4 or 3/8 Male NPT – 1/4 or 3/8
Outlet Option	Female NPT - 1/4 or 3/8 Male NPT – 1/4 or 3/8
Seal Option	Buna-N, Ethylene Propylene, Fluoroelastomer (Viton®)
Spring Option: Material – Cracking Pressure	302 Stainless – .5 psi, 1 psi, 3 psi, 6 psi, 10 psi, 30 psi, 40 psi, 55 psi, 70 psi Hastelloy® - 3 psi No spring
Cv Value	1.5
Full Port	.280 in
Maximum Operating Pressure	3000 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
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.