

Configure your exact valve



SCAN ME

## 687 Series Poppet Check Valve



### Design Considerations

- The 687 Poppet Check Valve incorporates a thin elastomer disc supported by a poppet that seals on the seat
- Pressure in the flow direction moves the seal off the seat at about 1/3 psi before pressure builds enough to move the poppet away from the seat
- Maximum operating pressure of 125 psi covers a wide range of air and fluid applications
- Compact design with a light cracking pressure, high flow rate, and a positive seal at very low back pressure or slight vacuum
- An embedded O-Ring Poppet is supplied for cracking pressure applications 1/2 psi and higher
- Hastelloy® is a superior chemically resistant spring material

### Specifications:

<b>Material</b>	Black Glass Filled Polypropylene, White Glass Filled Polypropylene Black PVDF (Kynar®)
<b>Inlet End</b>	3/4 Female and Male NPT
<b>Outlet End</b>	3/4 Female and Male NPT
<b>Seal Option</b>	Buna-N, Ethylene Propylene, Fluoroelastomer (Viton®), Silicone, AFLAS® *** Please ask us about Seal Materials not listed above. ***
<b>Spring Option: Cracking Pressure and Material</b>	1/3 psi - 302 Stainless (Disc Poppet) .5 psi - 302 Stainless (O-Ring Poppet) 1 psi - 302 Stainless (O-Ring Poppet) 2 psi - 302 Stainless (O-Ring Poppet) 9 psi - 302 Stainless (O-Ring Poppet) 1/3 psi - Hastelloy® (Disc Poppet) .5 psi - Hastelloy® (O-Ring Poppet) .7 psi - Hastelloy® (O-Ring Poppet) 1.5 psi - Hastelloy® (O-Ring Poppet) 3 psi - Hastelloy® (O-Ring Poppet) 7 psi - Hastelloy® (O-Ring Poppet) No Spring
<b>Maximum Flow Diameter</b>	0.812 in
<b>Cv</b>	12.5 with 3/4 Female NPT Ends
<b>Maximum Operating Pressure</b>	125 psi
<b>Maximum Operating Temperature</b>	140 °F

### Example of how to order:

Material	Inlet Port	Outlet Port	Seal	Spring
White Glass Filled Polypropylene	3/4 Female NPT	3/4 Female NPT	Buna	1/3 psi

**Part Number** WFP CHK 687-12F12F-B,DP,1/3#

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

WFP CHK 687-12F12F-B,DP,1/3# = White Glass Filled Polypropylene Check Valve, 3/4 Female NPT Inlet x 3/4 Female NPT Outlet, Disc Poppet, Buna Seals, 1/3 psi Spring