



# GENERANT

Valves & **BI-Lok** Fittings



# Check Valves

## High Pressure Check Valve (HPCV)



**Design:** Severe Service, High Pressure, Poppet Type Check Valve.  
**Size:** 1/4" to 1/2"  
**Configuration:** Male band Female NPT.  
**Materials of Construction:** Brass and Stainless Steel up to 10,000 Psi MAWP  
 Many standard seal material & Crack Pressures.  
 Available Cleaned for Oxygen Service.

## Poppet Check Valve (PCV)



**Design:** Compact, Poppet Type Instrumentation Check Valve.  
**Size:** 1/8" to 1/2"  
**Configuration:** Male NPT, Female NPT and BI-Lok Dual Ferrule Tube Connection.  
**Materials of Construction:** Brass and Stainless Steel up to 3,000 Psi MAWP  
 Many standard seal materials and crack pressures.  
 Available Cleaned for Oxygen Service.

## Inline Check Valve (ICV)



**Design:** Compact, Economical, Low to Medium Pressure, Poppet Type Check Valve.  
**Size:** 1/4" to 3/4"  
**Configuration:** Male NPT and Female NPT.  
**Materials of Construction:** Brass and Stainless Steel up to 800 Psi MAWP  
 Many standard seal materials and crack pressures.  
 Available Cleaned for Oxygen Service.

## Check Valve (CV)



**Design:** High Flow, Poppet Type Check Valve.  
**Size:** 1/8" to 2"  
**Configuration:** Female by Female NPT.  
**Materials of Construction:** Brass to 3,000 Psi, Stainless Steel up to 4,500 Psi MAWP  
 Many standard seal materials and crack pressures.  
 Available Cleaned for Oxygen Service.

## One Piece Check Valve (OPC)



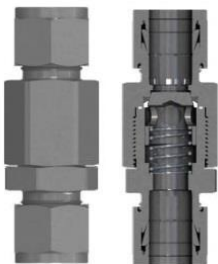
**Design:** Adjustable Crack Pressure, One Piece Body, Poppet Type Check Valve.  
**Size:** 1/4" and 1/2"  
**Configuration:** Male NPT and Female NPT.  
**Materials of Construction:** Brass and Stainless Steel up to 3,000 Psi MAWP  
 Many standard seal materials and crack pressures.  
 Available Cleaned for Oxygen Service.

## Adjustable Check Valve (ACV)



**Design:** Adjustable Crack Pressure, One Piece Body, Poppet Type Check Valve.  
 Field Adjustable and/or Supplied Factory Preset.  
**Size:** 1/4" and 1/2"  
**Configuration:** Male NPT and Female NPT.  
**Materials of Construction:** Brass and Stainless Steel up to 3,000 Psi MAWP  
 Many standard seal materials.  
 Available Cleaned for Oxygen Service.

## Poppet Check Valve 6,000 PSI (CVP)



**Design:** Compact, Poppet Type Instrumentation Check Valve. Optimized For Natural Gas Vehicle Fueling Systems.  
**Size:** 1/4" to 1"  
**Configuration:** BI-Lok Dual Ferrule Tube Connection & Face Seal.  
**Materials of Construction:** Stainless Steel up to 6,000 Psi MAWP  
 Many standard seal materials and crack pressures.  
 Available Cleaned for Oxygen Service.

## Cartridge Check Valve (CCV)



Generant offers a variety of Cartridge Check valves in various materials of Construction that are easily manifold mounted. From 5/16" to 1-1/4" OD and pressures up to 6,000 Psi. These offer system designers flexibility in tight areas and eliminate inlet and outlet connections.

# Relief Valves

## Vent Relief Valve (VRV)



**Design:** Compact, High Accuracy, Internally Adjusted, Direct Acting Pressure Relief Valve. Factory Preset Crack Pressures from 0.50 to 150 Psi. Excellent Reseal Performance. Inline or Vent to Atmosphere.  
**Size:** 1/8" & 1".  
**Configuration:** Male NPT, Female NPT, SAE, JIC and BSPT.  
**Materials of Construction:** Brass, Aluminum and Stainless Steel. Many standard seal materials. Available Cleaned for Oxygen Service.

## Vent Relief Valve High Pressure (VRVH)



**Design:** Compact, High Accuracy, Internally Adjusted, Direct Acting Pressure Relief Valve. Factory Preset Crack Pressures from 150-600 Psi.  
**Size:** 1/8" & 1/4".  
**Configuration:** Male NPT, Female NPT, SAE, JIC and BSPT.  
**Materials of Construction:** Brass & Stainless Steel. Many standard seal materials. Available Cleaned for Oxygen Service.

## Industrial Relief Valve (IRV)



**Design:** Factory Preset Stainless Steel. 10-700 Psi.  
**Size:** 1/4" to 1/2"  
**Configuration:** Male NPT, Female NPT, Face Seal and BI-Lok Dual Ferrule Tube Connection.

## High Pressure Relief Valve (HPRV)



**Design:** High Flow, Tamper Proof Design, Direct Acting Pressure Relief Valve. Inline, Manual Pull Ring Override or Vent to Atmosphere. Factory Preset Crack Pressures from 10-2400 Psi.  
**Size:** 1/8" to 3/4".  
**Configuration:** Male NPT, Female NPT, SAE, JIC and BSPT.  
**Materials of Construction:** Brass & Stainless Steel. Many standard seal materials. Available Cleaned for Oxygen Service.

# Needle Valves

## Forged Needle Valve (FNV)



**Design:** Brass (3000 Psi) and Stainless Steel (5000 Psi) Forged Body, Integral Bonnet.  
**Size:** 1/8" to 1/2" Straight or Angle.  
**Configuration:** Male NPT, Female NPT and BI-Lok Dual Ferrule Tube Connection.  
**Features:** Metal to Metal Stem or Optional Soft Tip (PCTFE) Panel Mount Standard 100% Factory Tested Available Cleaned for Oxygen Service.

# Ball & Plug Valves

## High Pressure Instrument Ball Valve (IBV)



**Design:** Quarter Turn Shut Off.  
**Pressure Rating:** 6,000 Psi @ 100° F (3:1 SF) Per NFPA 52 (2013) 4,750 Psi Per ASME B31.3 (2012) 4,400 Psi  
**Size:** 1/4" to 3/4"  
**Configuration:** Female NPT, O-Ring Face Seal and BI-Lok Dual Ferrule Tube Connection.  
**Features:** Stainless Steel Construction. Micro-Finished Floating Ball, Large Orifice for High Flow Efficiency. 100% Factory Tested.

## Precision Metering Valve (PMV)



**Design:** Brass (3000 Psi) and Stainless Steel (5000 Psi) Forged Body, Integral Bonnet Metering Valve.  
**Size:** 1/8" to 1/2" Straight or Angle.  
**Configuration:** Male NPT, Female NPT and BI-Lok Dual Ferrule Tube Connection.  
**Features:** Metal to Metal Stem or Optional Soft Tip (PCTFE) Panel Mount Standard 100% Factory Tested Available Cleaned for Oxygen Service.

## Plug Valve (SOV)



**Design:** Quarter Turn Shut Off. Brass and Stainless Steel.  
**Pressure Rating:** 3,000 Psi  
**Size:** 1/8" to 1/2"  
**Configuration:** Male NPT, Female NPT, and BI-Lok Dual Ferrule Tube Connection.  
**Features:** Low Torque Design with High Flow Rates and Zero Leak Shut-Off. Optional Downstream Vent for Low Pressure Applications. 100% Factory Tested.

## **BI-Lok® Tube Fittings**



***Meeting Your Requirements  
Exceeding Your Expectations***

### **The Proven Alternative**

Since 1981 **BI-Lok®** Tube Fittings have provided high integrity, leak free service in the most critical of industrial and instrumentation applications. A commitment to quality and product performance has always been our primary goal. You can be confident that using **BI-Lok®** Tube Fittings in your applications will continue to provide the performance and reliability you demand. **BI-Lok®** Tube Fittings are not only interchangeable, but component by component intermixable with other popular brands of like design dual ferrule tube fittings.

### **Superior Corrosion Resistance**

**BI-Lok®** Series D Dual Ferrule Stainless Steel Tube Fittings offer superior corrosion resistance by utilizing the Internationally patented **Nv Pionite Surface Treatment** Technology. This innovative surface hardening treatment yields a stable austenite structure layer while maintaining corrosion resistance. **Only the leading edge of the rear ferrule is treated.** Although this requires additional steps in the manufacturing process, the result is consistent low make up torque without the need to reduce the mass of the rear ferrule.

**Distributed by:**

