



# HIGH PRESSURE CHECK VALVE

## Lift Type

### Model 80N

The Model 80N Check Valve is a non-slam, lift type, non return valve that opens to allow flow in the required direction and smoothly closes drip tight to prevent back flow.

BERMAD 800 series valves are hydraulically operated, piston actuated globe valves for high pressure. Their full-bore body ensures unobstructed flow, and they are available in various models, sizes, patterns, and end connections.



### Features & Benefits

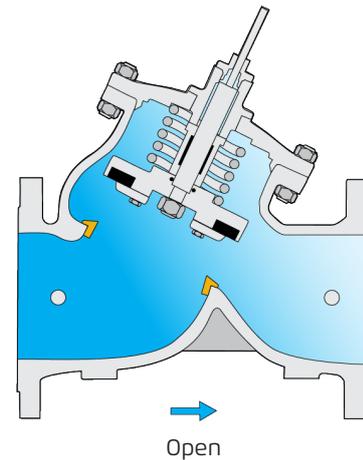
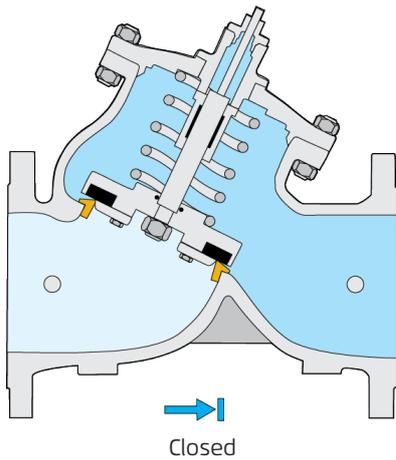
- Non-slam closing – Eliminates system surges
- In-line serviceable - Easy maintenance
- Flexible design - Easy addition of features
- "Y" or angle Pattern, wide body – Minimized pressure loss
- Semi-straight flow – Non-turbulent flow
- Stainless Steel raised seat - Cavitation damage resistant
- Obstacle free, full bore – Uncompromising reliability

### Typical Applications

- Pumping and booster station check valve
- Reduce surge by preventing backflow in uphill and vertical pipes
- Ensure one-way flow where required

### Typical Installation





This drawing refers to 1½ – 14"; DN40-350 sized valves only. For other sizes please refer to the Model's IOM.

## Main Valve

**Size Range:** 1½-20"; 40-500 mm

**Pattern:** "Y" (globe) & "A" (angle)

**Pressure Rating:** 40 bar

**End Connection:** Flanged, Threaded, Grooved

**Plug Types:** Flat disc

**Temperature Rating:** 80°C

*For 60–80°C consult factory*

### Standard Materials:

**Body & Cover:** Ductile Iron (1½-10"; 40-250 mm) ; Cast Steel (12-20"; 300-500 mm) & Carbon Steel Cover

**Bolts, Nuts & Studs:** Stainless Steel

**Internals:** Stainless Steel & Tin Bronze

**Seals:** Synthetic rubber

**Coating:** Dark blue Fusion bonded epoxy

*For other materials contact BERMAD*

## Notes

- Recommended continuous flow velocity: 0.3-6.0 m/sec; 1-20 ft/sec.
- Minimum operating pressure: 0.7 bar; 10 psi. For lower pressure requirements consult factory.

For detailed Engineering & Specification data, IOM and CAD Drawings, visit the Model Page on the [BERMAD](https://www.bermad.com) website.