

# Leak-free Hydraulic Piping Shutoff use of High-Pressure Water, Air, Slurry, Acid, Gas Flow **Control Valve**

Made in India



**PERFORMANCE MEETS  
HIGHEST-TEMPERATURE SAFE  
FEATURES**

[www.hicHydraulic.com](http://www.hicHydraulic.com)

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Ball as per IS 9884, API 598



Needle per ISO 10423



Butterfly per ISO 5752



Gate per ISO 5996



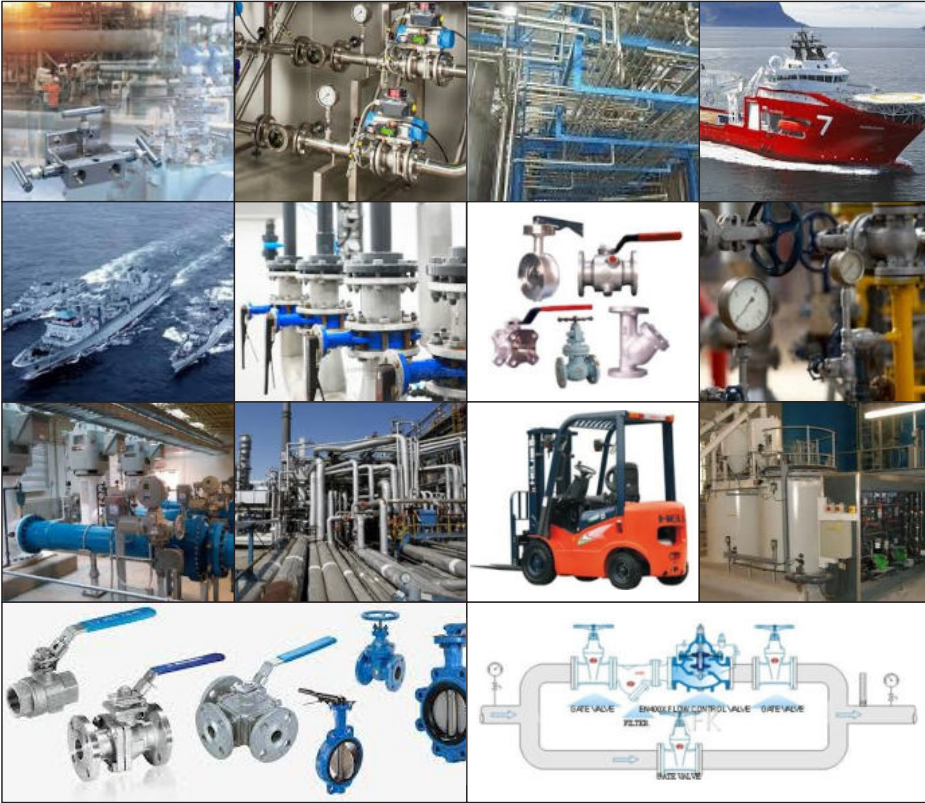
Non-Return per IS 5312



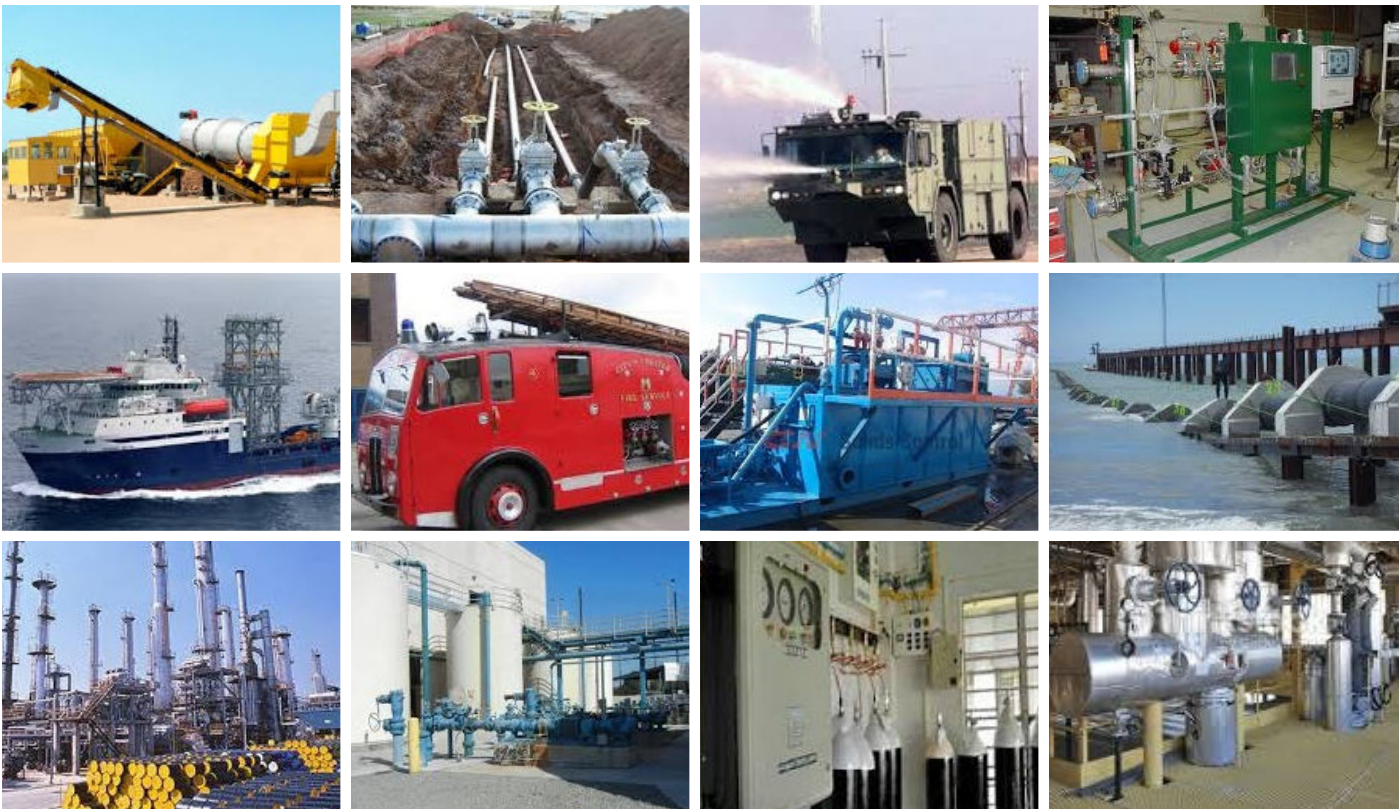
**Installation & Warranty  
Information**

**HIC**  
**UNIVERSAL**  
True Performance Rubbers

**Wish**  
**Safe Pressure**  
**& Temperature**  
**Flow-Rate Control**  
**of Water, Steam,**  
**Gas, Chemical**



**Manufacturing Range at: [www.UniversalDelhi.org](http://www.UniversalDelhi.org)**  
**Profile at: [www.hicRubber.com](http://www.hicRubber.com)**



## Thank You for Purchasing HIC "UNIVERSAL" High Pressure Control Valve

HIC International Co.'s Manufactured Quality Stainless Steel SS304, Carbon Steel, Forged Steel, Brass Body High Pressure Safe Flow Control Valves superseding IS 9884, API 598, ISO 10423, ISO 5752, ISO 5996, IS 5312 standards Leak-free High Pressure and Temp. Hydraulic Piping Shut-off aspect Advantage assures Long Life Reliability.



### Ultra High-Temperature and Extreme-Pressure Fluid Flow Control Valves Installation **Tips**

1. **Correct Fitting** be done near threading using Teflon tape or gland material for lasting performance.
2. **Seal Material** of Teflon PTFE or Nitrile, Ball & Gland-Nut of SS304, MS Handle is used & on leakage near lever, replace with new one.
3. **Maintenance Ease** is achieved by using Three-Pc. Round-Body design of Full-Bore / Regular-Port pattern either in SS304/CF8 or MS/ASTM A216 GR WCB with Screwed or Socket Weld or Flanged ends **Ball** valve.
4. **High Pressure Flow** up to 500 bar test pressure is achieved by using Full-Bore design of Single-Pc. forged Square-Body pattern either in SS304/316/C. Steel with BSP/NPT female-male Threaded ends **Ball** valve.
5. **Low-Pressure Flow** up to 70 bar TP is got by using Regular-Port or Full-Bore design of forged Round-Body in SS304/316/CF8m/MS/ASTMA216 with screwed or Class ASA 150 & equivalent Flanged ends **Ball** valve.
6. **Manifold Flow** up to 100 bar Test Pressure is achieved by using 3way 'T' port for bi-directional flow & 'L' port design for one direction flow **Ball** valve.
7. **Best Precise Flow Control** is achieved by using **Needle** valve ideal for instrumentation line & gases handling up to 350 bar WP.
8. **Quarter-Turn Wastewater Control** is achieved by using **Butterfly** Wafer type valve.
9. **Isolation Tight Shut-off** is achieved by using **Gate** valve for infrequent use.
10. **No Back-flow** is achieved by using **Non-Return** valve for condensate & sump.
11. **Throttle Flow** is achieved by using **Globe** valve for subsea ship tank, cryogenic transfer pumps.
12. **No Leakage Bubble Tight Shut-off** is achieved by using **Plug** valve for natural gas piping, refineries vapor flow pipeline.

**Disclaimer:** Information's, written and verbal are provided by HIC, relative to its **flow control valve** which it determines to be reliable & no liabilities of whatsoever nature in regards to its uses. The purchaser of HIC UNIVERSAL brand **high pressure control valves** should determine for itself the suitability of such **steel** products.



# Why HIC Universal Flow Control Valves?

**HIC  
UNIVERSAL**  
True Performance Rubbers

- **Tested Steel Body Materials in Screwed, Flanged, Butt Weld-able**  
Apt Pressure Safe Fluid Control SS304 Corrosion Resistant Stainless, Ultra Pressure & Temp. up to 450° C Rating Carbon Steel, Isolation Piping Light Weight Forged Steel, Cold Temp. Resistant Brass
- **Leak-Free Seat Seals CFT, FKM Viton, GFT, GRAPHOIL, NBR, PEEK, POM, PTFE, MQ Safely Controls Different Flow Media**  
Regulates Steam (CFT), Acids (FKM Viton), Chemicals (GFT), Fire (GRAPHOIL), Hydrocarbon (NBR), Nuclear Radiation (PEEK), Natural Gas (POM), Cryogenic (PTFE Teflon), Hot Air (MQ Silicone)
- **High Pressure Shut-Off 2-Way Water Flow, Three Way L or T Port Mixing, 4 Way Multi Diverting Full & Reduced Bore up to 1000 bar BALL Type**
- **Low Torque Precise Gas Regulating up to 500 bar, ASA300# Pressure Instrumentation Control NEEDLE Type**
- **High Capacity Quarter-Turn, Low Pressure Drop Flow up to ASA150# Pressure Wafer BUTTERFLY Type**
- **Leak-Tight Acid & Alkali Flow Shut-Off up to ASA300# Pressure GATE Type**
- **Exact Throttle of Chlorine Gas and Frequent Control of Turbine Oil, Feed-Water up to ASA300# Pressure GLOBE Type**
- **Anti-Reverse Steam Flow Check Types Straight, Swing, Lift-Up up to ASA1500# Pressure NON RETURN Type**
- **Rugged Control of Slurry, Vapor up to ASA150# Pressure Swift On or Off PLUG Type**



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## WARRANTY CERTIFICATE

The goods tailor-made, supplied as per buyer's P.O. specifications is warranted against any manufacturing defects for 12 months from the date of Invoice, and assume liability of repairing free of cost in the event of any manufacturing defects.

HIC Int. shall be under no liability in respect of any defect in the goods arising from any drawing, design or specification supplied by the Client. Goods claimed to be in default must be returned to HIC's factory at client cost; cost for return transport prepaid.



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