



Steel Control Valves & Camlock Quick Couplings

Technical Specifications

Conforming IS 9884, ISO 10423 & 7121 & 5752, MIL-C- 27487, ISO 7241



Regulate Flow Pathway Leak-Free !

Control de las válvulas de cierre de acero Libre de fugas

الصمامات الحديدية خالية من التسرب

Fuite protégée commande à fermeture de vannes en acier

HIC
UNIVERSAL
True Performance Rubbers





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Specification of Steel Control Valves & Couplings

Classified under HS Code 8481, 8414, 8412



About HIC

HIC International Co Inc, formed in 1988 manufacturing industrial **steel and rubber** products **ISO 9001** certified producer of **Hydraulic high pressure control valve camlock fitting**, Safety rubber mat sheet, **Conveyor Belt Idler Pulley, Power Transmission belt drive coupling, Hydraulic hose valve quality** exporters of HIC **Universal brand** to industrial traders distributors of USA, Australia, UAE, Singapore, China, South Africa, UK, Germany, Taiwan having manufacturing factories in Delhi and Ghaziabad UP of India.

Total Quality Management principles are followed and True Performance is thus assured.

HIC Universal High Pressure Ball Valves ensures unrestricted straight through flow in industrial services & maintenance like steam flow, gas transmission, fluid pressure, water flow, etc used widely in chemicals, fertilizers, hydraulic equipments, pharmaceuticals, petrochemicals, refineries, other business industries.

HIC Universal High Pressure Needle Valves ensures **easy installation on fluid handling line connections** in industrial services such as gas flow control, water flow, pneumatic valve control, etc used in instrumentations, laboratories, paper mills, process control systems in power plants, refineries and others.

HIC Universal **Camlock Couplings** and cam fittings ensures **no separation of line pressure** used widely in industries, namely, breweries, chemicals, dyes, fertilizers, inks, mining, petroleum, paper mills, textiles and other industrial establishments.



HIC Universal **Quick Release Couplings (Q.R.C.)** ensures instant, **positive and leak-proof connections** in services such as compressed air flow, hydraulic fluids, flow control, liquids, phosphoric acid, liquid ammonia, refrigeration, steam, vacuum, various gases, water flow and other applications.



Why HIC Universal Steel Control Valves?



Tested Body Materials

of Corrosion Resistant SS304, Higher Pressure
Withstanding Capacity Carbon Steel, Isolation Applications
Light Weight Forged Steel, Cold Resistant Brass

Leak-Free Sealing

to Handle Different Flow Medium like, CFT for **Steam**, FKM
Viton for **Acids**, GFT for **Chemicals**, GRAPHOIL for **Fire**, NBR
for **General Purpose & Hydrocarbon**, PEEK for **Nuclear
Radiation**, POM for **Natural Gas**, PTFE Teflon for **Cryogenic
& Chemicals**, MQ Silicone for **Hot Air**

High Pressure Water Flow

2-Way or Three Way or 4 Way Control
by **BALL & BUTTERFLY** Valve

Exact Throttle of Chlorine and Oil Control

by **GLOBE** Valve

Anti-Reverse Steam Flow Check

by **NON RETURN** Valve

Swift On or Off Slurry and Vapour Control

by Rugged **PLUG** Valve

Tight Shut-Off Acid & Alkali Flow Control

by **GATE** Valve

Low Torque Precise Gas Regulating

Instrumentation Control by Stainless Steel **NEEDLE** Valve

Why HIC Universal Camlock Quick Coupling?



Safe Transfer of Flammable Liquids
& Dry Powders
with CAMLOCK COUPLING and CAM FITTING

Fast Connections without Sweats
with CAM Groove COUPLING

Positive Connect Disconnect
Hydraulic Steam & Pneumatic Air
with QUICK RELEASE COUPLING

Push and Pull Mechanism
Simple to Use QRC

Piping System hydraulic pneumatic gas liquids flow pressure control safe direct-acting fittings ball valves manufactured of forged stainless steel SS316 / SS304 / carbon steel / investment casting body, while quick release coupling check valve coupler adaptor set manufactured of stainless steel SS316L / SS304 / carbon steel chrome plated body, whereas camlock coupling plus cam arm groove coupling fittings such as coupler-adaptor-dust cap-dust plug manufactured of aluminium stainless steel SS304 / SS316 / carbon steel and needle valves manufactured of stainless steel SS304, SS316 body material industrial valves produced with seal material of Teflon PTFE or nitrile NBR or silicone or viton rubber selected based on high pressure flow media and resistance to temperature, proof pressure tested piping valves made in India by HIC Universal.

HIC Universal Ball control valves, Quick Release Coupling check valve, Camlock coupling, Needle flow control valves, Globe control valves, Gate control valves, Lubricated Plug flow control valves and Wafer type Butterfly valves are **Original Choice** by industrial piping contractors, plumbing consultants and storage oil tank manufacturers in India, China, Ireland, Mexico USA North America, Canada, Latin America, Germany, UK, Singapore, Taiwan, Australia, South Africa, Myanmar, Indonesia, Kingdom of Saudi Arabia, Qatar, Kuwait, UAE, Malaysia and other Asian countries.

RANGE of High Pressure Valves

Flow Pressure Control HIC Piping Components



Ball Valve



Non Return Valve



Butterfly Valve



Needle Valve



Globe Valve



Gate Valve



Plug Valve

- ❖ High Pressure Flow Control Valve Full Bore Single piece Square Body for pressure 150# - 300# up to 8" NB.
- ❖ Plumbing & Irrigation Water Valve Low Pressure Round Body for pressure till 70 bar up to 4" NB.
- ❖ Pump & Pipe Valve 3 piece Round Body Nil Maintenance Management for pressure 150# - 300# up to 8" NB.
- ❖ Flanged Ball Valve Medium Pressure 3 Piece Round Body Nil Repair Maintenance for pressure 150# -300# up to 8" NB.
- ❖ Stainless Steel Industrial Valve Low Pressure Round Reduced Port for pressure till 50 bar up to 1" NB.
- ❖ 3 Way Valve Stainless Steel Ball 'T' port i.e., bi-directional flow, 'L' port i.e., one direction flow for pressure till 400 bar up to 6" NB.
- ❖ 3 piece Round Body 1/8" (3mm) to 4" NB (100mm) for pressure 300# - 800# till 2" NB.
- ❖ Straight Pattern Stainless Steel Regulating Needle Valve for pressure till 500 bar up to 2" NB.
- ❖ Angular Pattern Flow Meter Needle Valve (in Stainless Steel/ Carbon Steel/ Brass) for pressure till 500 bar up to 2" NB.
- ❖ Wafer/Swing/Lift-up/Straight Pattern Types Cast Steel/Forged Steel/SS Non Return Check Valve for pressure 150#,300#, 1500#, 700 bar up to 12" NB.
- ❖ Wafer/Flanged Types Cast Iron/CS/SS Butterfly Valve for pressure 150# up to 16" NB.
- ❖ Forged Steel/Cast Steel/SS Globe Valve for pressure 300#, 1500# up to 12" NB.
- ❖ Forged Steel/CS/SS Gate Valve for pressure 300#, 1500# up to 12" NB.
- ❖ Self Lubricating Type 2 Way/3 Way CI/CS/SS Plug Valve for pressure 150# up to 3" NB.

RANGE of Quick Couplings

Connect Disconnect Air & Fluid HIC Pneumatic Hydraulic Fittings



Quick Release Coupling

- ❖ **Slurry Viscose** sticky material transfer **hydraulic Camlock couplings** in stainless steel SS 304, SS 316, aluminium, brass in 1/2" (12.5 mm) to 6" (150 mm) sizes in **Threaded** BSP-NPT and **Flanged** as per ANSI B16.5 150 class RF or ASA 150 class coupler adaptor sets.
- ❖ Quick connector cam arm **Coupler** male (part **B**), female (part **D**); Adaptor female (part **A**), male (part **F**); Hose Shank coupler (part **C**). Adaptor (part **E**).
- ❖ **QRC-T** coupling disconnect quick **through** type for industrial application up to **350 bar** working pressure in stainless steel SS 304, carbon steel, brass in 1/4" to 2" BSP-NPT thread sizes.
- ❖ **QRC-VV** check valve **ISO A-7241 Duo Check** stucchi interchangeable for hydraulic application up to **350 bar** wp in stainless steel SS 304, SS316, carbon steel in 1/4" to 3" sizes coupler and adaptor sets.
- ❖ **Steam** flow quick couplings up to **200 deg C** temperature **Seal** material suggested is **Silicon** while rubber seal **Viton** up to **250 deg C** high temp. Use.
- ❖ **QRC-HP** hydraulic **High Pressure** couplings Double Shut-off walther USA interchangeable up to **980 bar** wp in carbon steel in 1/4" to 3/4" sizes coupler and adaptor sets.
- ❖ **QRC-JS** **High Pressure Jack Screw** couplings Double Check innerpack American interchangeable up to **735 bar** wp in carbon steel in 1/4" to 1/2" sizes coupler and adaptor sets.
- ❖ **QRC-V** **Air** couplings SV 10 **Single Check** pneumatic nitto Japan interchangeable up to **20 bar** wp in carbon steel, SS304, SS316, brass in 1/4" to 2" sizes coupler and adaptor sets.
- ❖ **QRC-Snap-tite Style** quick disconnect couplings liquid ammonia flow use adflow American interchangeable non-return valve in SS316, SS304 in 1/4" to 2" sizes coupler and adaptor sets.
- ❖ **QRC-Push Pull** quick connect hydraulic couplings snap-tite interchangeable up to **315 bar** wp **construction vehicles** usage in SS304, brass in 1/4" to 1-1/2" sizes.
- ❖ **QRC-Trailer Break ISO-5675** agricultural farm equipment couplings up to **345 bar** wp in SS304, brass in 1/4" to 1-1/4" sizes.
- ❖ **QRC-Poppet Style** hose couplings quick disconnect in configuration double shut off, single check, straight through up to **750 bar** wp in SS304, carbon steel, brass, aluminium, SS316 in 1/4" to 6" sizes.

2-Way High Pressure Ball Valve 1000 Bar Max

Fire Safe Screwed End Control Valves Produced by HIC

2-Way High Pressure ball valve Screwed End sizes used by manufacturers of fire extinguishing system, industrial piping contractors of gas engineering, process plant, earth moving equipment producers for advantageous reason being reliable for very frequent on-off operations, that can transfer most liquids at high temperature where large flow is required instantly for safety systems.



2-Way High Pressure Ball Valve 400 Bar Max

Flanged End Naval, Wastewater Control Valves Produced by HIC

2-Way High Pressure ball valve Flanged End sizes used by manufacturers of shipboard equipment, wastewater treatment equipment, naval oxygen-free water lines and industrial piping contractors for advantageous reason being easier to replace when required just by taking out flange fastener bolts and reliable for very frequent on-off operations, that can transfer most liquids at high temperature where large flow is required above 1" size in general.



2-Way Medium Pressure Ball Valve 100 Bar Max

Threaded Ends Trailer, Mud Pump Control Valves Produced by HIC

2-Way Medium Pressure ball valve Threaded Connectors sizes used by manufacturers of trailer diesel pump, mud pump producers and industrial piping contractors for advantageous reason being increased flow rates due to compact coned-and-threaded connection reliable for very frequent on-off operations, that can transfer most liquids at high temperature.



2-Way Low Pressure Ball Valve 70 Bar Max

Threaded Ends Asphalt Release Sprayer Valves Produced by HIC

2-Way Low Pressure ball valve **Threaded Connectors** sizes used by manufacturers of road construction equipment, cold water tank producers and plumbing consultants for advantageous reason being full flow passage needing no manual readjustment of seals, have total shut-off capability of pressure flow in both directions.



2-Way Reduced Port Ball Valve 50 Bar Max

Threaded Ends Chemical Injection Pump Valves Produced by HIC

2-Way Reduced Port ball valve **Threaded Ends** sizes used by manufacturers of chemical injection pump and industrial piping contractors for advantageous reason being economical quick shut-off capability, have flow capacity 1 size less than the valve's pipe size.



3 Pc Cryogenic Isolation Ball Valve #800 Max

Threaded-Socket/Weld-Butt/Weldable Ends Steam Rated Valves Produced by HIC

3 Pc Screwed End ball valve **Threaded-Socket Weld-Butt Weldable Ends** sizes used by manufacturers of subsea isolation system, marine equipment producers and steam pipeline contractors for advantageous reason being bi-directional flow handling is superb due to bubble-tight seal system low torque design, thus no leakage and ease of maintenance.



2 Way 1Pc 2Pc or 3Pc Flanged Ball Valve #300 Max

Forklift Hydraulic Control valves Produced by HIC

2 Way Flanged ball valve 1pc or 2pc or 3pc sizes used by manufacturers of forklift hydraulic part control, chemical process pump and hydraulic control system components producers for advantageous reason being full flow passage that needs no manual re-adjustment of seals, serves as a convenient shut-off leakage-free flow of an operating medium in both the directions.



3 Way L or T Port Flanged Ball Valve #300 Max

Military, Aircraft Fire Truck Fluid Mixer Valves Produced by HIC

3 Way Flanged ball valve 'L' port and 'T' port sizes used by manufacturers of military-aircraft fire truck and fire protection system producers for advantageous reason of 3 Way Diverter Flange Valve being allows product to be mixed or shut-off, anti-blow out stem design serves in diverting flow pressure either 'L' port 3 way valve configuration to flow in 1 direction or 'T' port configuration 3 way valve intended for bi-directional flow.



3 Way Directional Flow Threaded Ball Valve 400 Bar Max

Petrochemical, Beverage L or T Port Diverter Valves Produced by HIC

3 Way Threaded 'L' port and 'T' port ball valve sizes used by manufacturers of petrochemical piping fabricators, beverages industry expert consultants and pipelines contractors for advantageous reason of 3 Way diverter threaded piping valve being allows product to be mixed or shut-off, serves in diverting flow pressure either 'L' port 3 way valve configuration to flow in 1 direction or 'T' port configuration 3 way valve intended for bi-directional flow.



4 Way Multiport Threaded Ball Valve 400 Bar Max

4 Way Threaded Multiport Ball Valve Produced by HIC

4 Way Threaded Multiport ball valve sizes used by manufacturers of chemical dosing systems and industrial piping contractors for advantageous reason being blow-out proof stem design cost reducing feature as can get same functionality in place of using plural number of valves, serves in diverting flow pressure either 'L' port 4 way valve configuration to flow in 1 direction or 'T' port configuration 4 way valve intended for bi-directional flow.



4 Way Multiport Flanged Ball Valve #300 Max

Gas Mixing Valves Produced by HIC

4 Way Flanged Multiport ball valve sizes used by manufacturers of gas control mixer panel equipment, gas mixing systems and industrial piping contractors for advantage reason of Four Way multiport diverter valve being blow-out proof stem design cost reducing feature as can get same functionality in place of using plural number of valves, serves in diverting flow pressure either 'L' port 4 way valve configuration to flow in 1 direction or 'T' port configuration 4 way valve intended for bi-directional flow.



Wafer Type Check Non Return Valve #150 Max

Steam Control, Natural Gas Flow Control NRV Produced by HIC

Wafer Check valve sizes used by manufacturers of power plant steam systems, natural gas pipeline fabricators and industrial piping contractors as advantage of Wafer type non-return valve being one-way valve that allows flow in one direction meaning which forward flow, thus prevents flooding and protects strainers, flow-meters as well as control valves due to anti-reverse flow design.





Swing Type Check Non Return Valve #300 Max

Feed Water and Fuel Pump Control NRV Produced by HIC

Swing Check valve sizes used by manufacturers of feed water systems, fuel line pump system and plumbing contractors as advantage of Swing type non-return valve being produces high resistance to flow in open position in one direction only, and closes automatically in the event of reverse flow.



Lift Type Check Non Return Valve #1500 Max

Condensate Drain and Sump Discharge NRV Produced by HIC

Lift Check valve sizes used by manufacturers of feed water systems, fuel line pump system and plumbing contractors as advantage of Lift type non-return valve being maintenance-free design that reduces the damages caused by water-hammer of the linked pressure surges causing a wave of pressure up and down the pipe work, and that prevents back-flow.



Straight Pattern Check Non Return Valve 700 Bar Max

Steam Turbine, Oil Pump Control NRV Produced by HIC

Straight Check valve sizes used by manufacturers of turbine steam systems, oil transfer pump and piping consultants as advantage of Straight pattern non-return valve being allows flow in one direction with straight pipe upstream avoids premature as well as vibration, thus helps to protect processes.



Straight Port High Pressure Needle Valve 500 Bar Max

Screwed End & Flanged Refrigeration, Gas Regulating Valves Produced by HIC

Straight Needle valve sizes used by manufacturers of mobile refrigeration system, gas handling equipment and industrial piping consultants as advantage of Straight port needle valve being allows precise control of fluid flow at low flow rates, convenient for vertical inline pipe fitting.



Angle Needle High Pressure Valve 500 Bar Max

Screwed End & Flanged Instrumentation Process Control Valves Produced by HIC

Angle Needle valve sizes used by manufacturers of instrumentation process control systems and piping consultants as advantage of Angle type needle valve being inlet and outlet ports are at 90 degree angle to provide precise control of fluid flow or gases, and, flow regulators are so designed that can be mounted directly onto the cylinder ports.



High Pressure Gate Valve #1500 Max

Oilfield Flow Control Socket/Butt-Weld/Threaded/Flanged Ends Shut-off Valves

High Pressure Gate valve sizes used by manufacturers of oilfield equipment, power generation equipment producers and industrial piping contractors as advantage of Control gate valve being tight shut-off and very little resistance to flow of air, oil, gas, heavy liquids, reliable for infrequent operation to isolate the downstream line from the upstream.



High Pressure Throttle Globe Valve #1500 Max

Subsea Ship Tank Flow Control Socket/Butt-weld/Threaded/Flanged Ends Valves

High Pressure Globe valve sizes used by manufacturers of subsea ship tank, cryogenic transfer pumps producers and plumbing consultants as advantage of Throttle globe valve being efficient throttling of vapours, gases or corrosive substances is achieved by just a 90 degree turn to open fully to get instant fluid flow, reliable for frequent operation in processes where pressure drop changes are expected to a great extent.



Lubricated Plug Type Quarter-Turn Valve #150 Max

Refinery Vapour Line, Slurry Shut-off Socket/Butt-weld/Threaded/Flanged End Valves

Lubricated Plug valve sizes used by manufacturers of natural gas piping system, oil piping system, refineries vapour flow pipeline and slurry pipeline as advantage of Self-Lubricating plug valve being quarter-turn rotational motion unique sealant system and blowout proof stem design ensures positive bubble tight shut-off, thus no leakage and absolutely maintenance-free.



Butterfly Wafer Valve #150 Max

Sewage Wastewater Flow Control Valves Produced by HIC

Butterfly Wafer valve sizes used by manufacturers of sewage treatment plant, industrial wastewater treatment consultants as advantage of Wafer type butterfly valve being corrosion resistant quarter-turn operation with tight shut-off capability that does not transfer piping system weight directly through the valve body.



Butterfly Flanged HVAC Valve #150 Max

Sanitary Water Flow Control Valves Produced by HIC

Butterfly Flanged valve sizes used by manufacturers of sanitary pipe fittings, HVAC control system producers and industrial plumbing contractors as advantage of Flange type butterfly valve being corrosion resistant tight shut-off good flow control and low drop in pressure of liquids or slurry, reliable for frequent on-off operation in processes where a small percentage of total pressure drop is permitted by the valve and superb substitute for gate valves installed in water.



Double Check Valve Quick Connect Coupling 500 Bar Max

Ammonia, Steam Hydraulic Disconnect Couplings Produced by HIC

Double Check Valve quick release coupling sizes used by manufacturers of hydraulic tools, jack hammers and snow plow equipment producers as advantage of Double Shut-Off quick coupling being push-pull mechanism of adaptor plus coupler minimizes fluid loss upon disconnection, fast-easy and quick leak-proof connections between delivery lines and pressure hose pipes by virtue of internally fitted valve action.



Snap-tite USA design pattern Quick Disconnect Couplings with built-in anti-reverse flow non-return valve also manufactured by HIC.

Single Check Valve Quick Release Coupling 10 Bar Max

Air Shut-off Pneumatic Couplings Produced by HIC

Single Check Valve quick release coupling sizes used by manufacturers of pneumatic tool, air cylinders and car wash equipment producers as advantage of Single Shut-Off pneumatic quick release coupling being push-pull mechanism of adaptor and built-in check valve into coupler only minimizes fluid loss upon disconnection.

Chicago USA design pattern Quick Release Couplings also manufactured by HIC.



Straight Through Quick Disconnect Coupling

Viscose Fluid Hose Connection Thru-Flow Couplings Produced by HIC

Straight Through quick coupling sizes used by manufacturers of food processing machinery, lubrication fittings and glycol water producers as advantage of Straight Through quick release coupling being maximum flow capabilities having no check valves that offers minimum pressure drop of any quick disconnect coupling allowing to be thoroughly cleaned, ideal for high viscosity fluid and where back-up valves are fitted for regulating and closing the line.



ISO7241 Part A Hydraulic Double Shut-off Quick Coupling

High Pressure Poppet Style Valves Quick Connect Hose Couplings Produced by HIC

Hydraulic Quick Connect coupling as per ISO7241 Part A sizes used by manufacturers of earth moving equipment, construction machinery producers and industrial piping contractors as advantage of Quick Connect coupling being half-for-half interchangeable, unique poppet-style valves plus captive wall seal ensures superb leak-free high pressure fluid transfer handling.



Cam & Groove Coupling and Camlock Fittings

Tanker Liquid, Dry Powder Transfer Adapter, Coupler, Hose Shank, Dust Plug

Camlock coupling sizes used by manufacturers of oil tanker, pharmaceutical tanks, viscous liquid pump, slurry pump producers and industrial piping contractors as advantage of Camlock coupling being safe transfer of volatile and flammable liquids imply secure connections to tanks including dry powders bulk handling, thus ensuring no separation of line pressure plus safe clean working environment.



Packed in sea-worthy jute or HDPE bags or wooden box-crate.

Order Quantity Minimums

Numbers of HIC Control Valves, Camlock & Quick Couplings Supplied

Ball valve, 2-Way High Pressure Ball valve, 2-Way Medium Pressure Ball valve, 2-Way Low Pressure Ball valve, 2-Way Reduced Port Ball valve, 2-Way 3Pc Threaded Ball valve, 2-Way Single Pc Flanged Ball valve, 2-Way 2Pc Flanged Ball valve, 2-Way 3Pc Flanged End Ball valve, 3-Way Ball valve, 4Way Ball valve, Minimum order quantity in Assortment sizes or single size NUMBERS 02.



Non return valve, Straight Pattern Check valve, Lift-Up Pattern Check valve, Swing Check valve, Wafer Check valve, Minimum order quantity in Assortment sizes or single size NUMBERS 02.



Needle valve, High Pressure Straight Port Needle valve, Angle Needle valve, Flanged Needle valve, Minimum order quantity in Assortment sizes or single size NUMBERS 02.

Gate valve, Butt-Weld Gate valve, Socket weld Gate valve, Screwed end Gate valve, Flanged Gate valve, Minimum order quantity in Assortment sizes or single size NUMBERS 02.

Globe valve, Minimum order quantity in Assortment sizes or single size NUMBERS 02.



Plug valve, Lubricated 2Way Plug valve, Self Lubricating 3 way Plug valve, Minimum order quantity in Assortment sizes or single size NUMBERS 02.



Butterfly valve, Wafer Butterfly valve, Butterfly Flanged type valve, Minimum order quantity in Assortment sizes or single size NUMBERS 02.

Quick Release Coupling, Single Check Valve Air Quick coupling, Hydraulic Double Check Valve Quick coupling, Straight Through Hose Instant coupling, Double Shut-Off High Pressure Quick Coupler, Hose Coupler, Hose Adaptor, Minimum order quantity in Assortment sizes or single size NUMBERS 06.



Camlock Coupling, Camlock Coupler, Camlock Adaptor, Camlock Dust Plug, Minimum order quantity in Assortment sizes or single size NUMBERS 04.

Nomenclature of Ball Valves

Size, Test Pressure, Body Material, Seal to Control Flow: Technical Data

3 WAY-4WAY	
Pressure	S/E- up to 400 Bar F/E-Up to 300#
Size	1/4" [6MMNB]- 6" [150MMNB]
Material made-up	Carbon Steel/ Stainless Steel
Body & Stem Seal	PTFE/NBR/FPM
Temp. Range	20°C + 150°C
Ball Seat	POM/PEEK/PTFE/GFT
End Connection	Screwed-BSP(ISO-228 T1) NPT Male/Female – Flanged ASA/BS
Accessories	Gear Box, Actuators, locking device, limit switches proximity switches(for position indication and remote controls)



2 WAY High Pressure	
Pressure	up to 1000 Bar
Size	1/4" [6MMNB]- 4" [100MMNB]
Material made-up	Carbon Steel/ Stainless Steel
Body & Stem Seal	PTFE/NBR/FPM
Temp. Range	40°C + 200°C
Ball Seat	POM/PEEK/PTFE/GFT/CFT
End Connection	Screwed-BSP(ISO-228 T1) NPT Male/Female Extended Nipple, Male Threads DIN 2353 L / DIN- 2353 S
Accessories	Gear Box, Actuators, locking device, limit switches proximity switches(for position indication and remote controls)



Nomenclature of Ball Valves

2 WAY High Pressure

Pressure	up to 400 Bar
Size	1/2" [12MMNB]- 4" [100MMNB]
Material made-up	Carbon Steel/ Stainless Steel
Body & Stem Seal	PTFE/NBR/FPM
Temp. Range	40°C + 200°C
Ball Seat	POM/PEEK/PTFE/GFT/CFT
End Connection	SAE -4 Bolt 3000 PSI and SAE -4 Bolt 6000 PSI
Accessories	Actuators, locking device

Design - HIC 01240



2 WAY 1PC/2PC/3PC Flanged End

Pressure	150# - 300#
Size	1/2" [12MMNB]- 8" [200MMNB]
Material made-up	Cast Steel/ Stainless Steel
Body & Stem Seal	PTFE/Grafoil
Temp. Range	20°C + 150°C
Ball Seat	PTFE/GFT/CFT
End Connection	ASA/BS/DIN
Accessories	Gear Box, Actuators, locking device, limit switches proximity, switches(for position indication and remote controls)

Design - HIC 01230 / 01240F



ANSI 150#

Size NB	A	B	C	D	E	F	G
15	108	35	11	89	4	60	16
20	118	43	13	98	4	70	16
25	127	51	14	108	4	79	16
40	165	73	14	127	4	98	16
50	178	92	16	152	4	121	19
65	190	105	17	178	4	140	19
80	203	127	19	190	4	152	19
100	229	157	24	229	8	190	19
125	254	186	24	254	8	216	22
150	267	216	25	279	8	241	22
200	292	270	29	343	8	298	22

ANSI 300#

Size NB	A	B	C	D	E	F	G
15	140	35	14.2	95	4	66.6	16
20	152	43	15.8	117.5	4	82.5	19
25	165	51	17.5	124	4	89	19
40	191	73	21	156	4	114	22
50	216	92	22	165	8	127	22
65	241	105	25	190	8	149	22
80	282	127	29	209	8	168	22
100	305	157	32	254	8	200	22
125	381	186	35	279	8	235	22
150	403	216	37	318	12	270	22
200	419	270	41	381	12	330	25

Nomenclature of Ball Valves

ANSI 600#

Size NB	A	B	C	D	E	F	G
15	165	35	20.5	95	4	66.6	16
20	190	43	22.6	117.5	4	82.5	19
25	216	51	23.8	124	4	89	19
40	241	73	28.6	156	4	114.3	22
50	292	92	31.7	165	8	127	19
65	330	105	34.8	190	8	149	22
80	356	127	38.1	209	8	168	22
100	432	157	44.5	273	8	216	25.4
125	--	186	44.5	330	8	266.5	28.4
150	559	216	54.1	355.6	12	292.1	28.4
200	--	--	--	--	--	--	--

TEST PRESSURE

CLASS	HYDROSTATIC	SEAT TEST	AIR TEST
150#	31.5 kg/cm ²	22 kg/cm ²	7 kg/cm ²
300#	79 kg/cm ²	58 kg/cm ²	7 kg/cm ²

2 WAY Low Pressure

Pressure	Up to 70 Bar
Size	1/4" [6MMNB]- 4" [100MMNB]
Material made-up	Cast Steel/ Stainless Steel
Body & Stem Seal	PTFE/NBR
Temp. Range	40°C + 150°C
Ball Seat	PTFE/GFT/CFT
End Connection	Screwed-BSP (ISO-228 T1) NPT Male/Female Extended Nipple.
Accessories	Locking device

Design - HIC 01240S



2 WAY 3PC Screwed End

Pressure	300# - 800#
Size	1/2" [12MMNB]- 2" [50MMNB]
Material made-up	Forged Steel/ Cast Steel/ Stainless Steel
Body & Stem Seal	PTFE/Grafoil
Temp. Range	20°C + 150°C
Ball Seat	PTFE/GFT/CFT
End Connection	Screwed-BSP (ISO-228 T1) NPT Male/Female Extended Nipple. Socket Weld/Butt Weldable Type
Accessories	Actuators, Locking device

Design - HIC 01430



Nomenclature of Ball Valves

2 WAY Medium Pressure

Pressure	Up to 100 Bar
Size	1/8 " [3MMNB]- 4" [100MMNB]
Material made-up	Forged Steel/ Stainless Steel
Body & Stem Seal	PTFE/NBR
Temp. Range	40°C + 150°C
Ball Seat	PTFE/GFT/CFT
End Connection	Screwed-BSP (ISO-228 T1) NPT Male/Female Extended Nipple.
Accessories	Actuators, Limit Switches

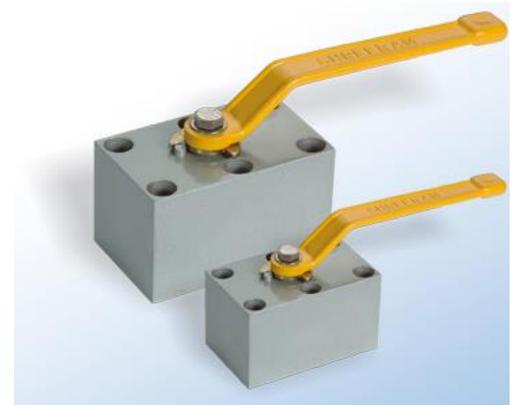
Design - HIC 01830



2-3 WAY Compact

Pressure	Up to 1000 Bar
Size	1/4 " [6MMNB]- 2" [50MMNB]
Material made-up	Carbon Steel/ Stainless Steel
Body & Stem Seal	PTFE/NBR/FPM
Temp. Range	40°C + 200°C
Ball Seat	POM/PEEK/PTFE
End Connection	Valve Body is flanged directly to the manifold with 'O' Ring face seals.
Accessories	Actuators, Locking device, limit switches, proximity switches (for position indication and remote controls)

Design - HIC 01830



Nomenclature of Ball Valves

2 WAY Reduced Port

Pressure	Up to 50 Bar
Size	1/8 " [3MMNB]- 1" [25MMNB]
Material made-up	Mild Steel/ Stainless Steel/ Brass
Body & Stem Seal	PTFE/NBR
Temp. Range	40°C + 150°C
Ball Seat	PTFE
End Connection	Screwed-BSP (ISO-228 T1) NPT Male/Female

Design - HIC 01410



2 WAY Direct Mounting Flange

Pressure	Up to 1000 Bar
Size	1/4 " [6MMNB]- 4" [100MMNB]
Material made-up	Carbon Steel/ Stainless Steel
Body & Stem Seal	PTFE/NBR/FPM
Temp. Range	40°C + 200°C
Ball Seat	POM/PEEK/PTFE/GFT/CFT
End Connection	Screwed-BSP (ISO-228 T1) NPT Male/Female Extended Nipple, Male Threads DIN 2353 L / DIN- 2353 S
Accessories	Gear Box, Actuators, locking device, limit switches proximity switches(for position indication and remote controls)

Design - HIC 01240DM



Nomenclature of Ball Valves

2 WAY with SAE Split Flange

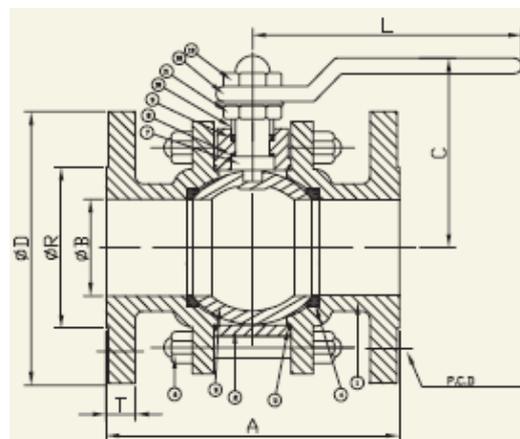
Pressure	Up to 400 Bar
Size	1/2", 3/4", 1" Block Body Type 1 1/4", 1 1/2", 2" Forged Body Type
Material made-up	Carbon Steel/ Stainless Steel
Body & Stem Seal	PTFE/NBR/FPM
Temp. Range	40°C + 200°C
Ball Seat	POM/PEEK/PTFE/GFT/CFT
End Connection	SAE Spli Flange NPT
Accessories	Gear Box, Actuators, locking device, limit switches proximity switches(for position indication and remote controls) Spare Seal Kits & 'O' Rings

Design - HIC **01820SF**



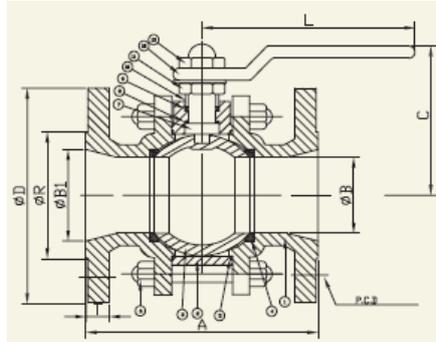
GA Drawing of Ball Valves

3 PC Ball Valves Full Bore Flanged End ASA – 150# & 300#

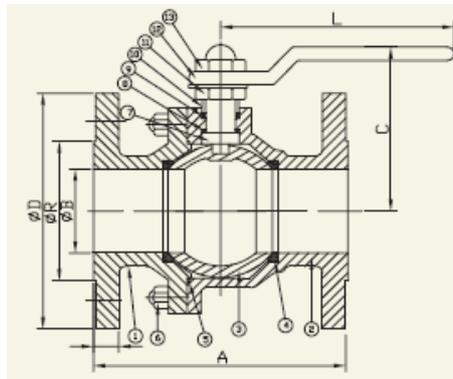


GA Drawing of Ball Valves

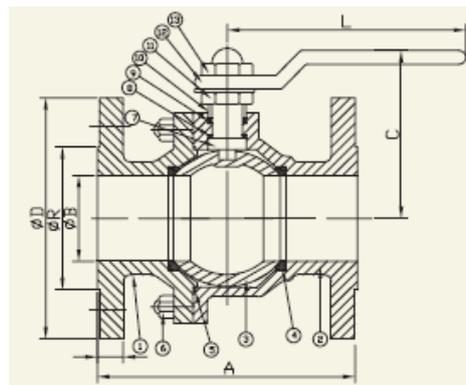
3 PC Ball Valves Reduced Bore Flange End ASA – 150# & 300#



2 PC Ball Valves Full Bore Flanged End ASA – 150# & 300#

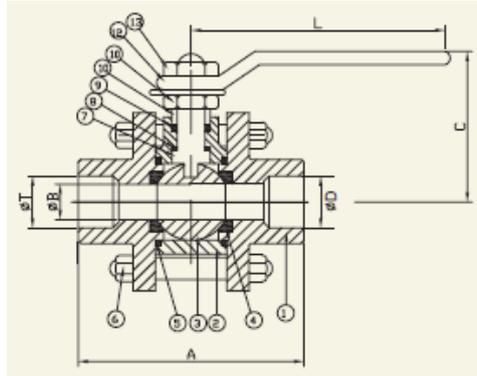


2 PC Ball Valves Reduced Bore Flange ASA – 150# & 300#

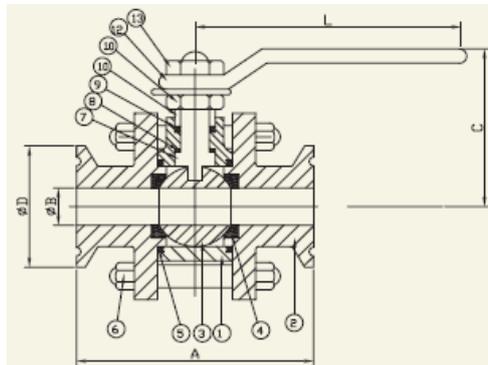


GA Drawing of Ball Valves

3 PC Ball Valves Socket Weld End ASA – 150



3 PC Ball Valves T.C End ASA – 150



Nomenclature of Non Return Valves

Size, Test Pressure, Body Material to Check One Direction Flow: Technical Data

Non Return/ Check	
Pressure	CV1 – 70 Bar CV2 – 1500# CV3 – 300# CV4 – 150#
Size	CV1 [Straight Pattern] 1/4 " [6MMNB]- 2" [50MMNB] CV2 [Lift Up] 1/2 " [12MMNB]- 2" [50MMNB] CV3 [Swing Type] 1 " [25MMNB]- 8" [200MMNB] CV4 [Wafer Type] 2 " [50MMNB]- 12" [300MMNB]
Material made-up	Cast Steel/ Forged Steel/ Stainless Steel/ Brass
End Connection	SE/SW/FE-ASA/BS

Design - HIC **01820SF**



Nomenclature of Butterfly Valves

Size, Test Pressure, Body Material to Control Flow: Technical Data

Wafer & Flanged Type	
Pressure	150#
Size	2 " [50MMNB]- 16" [400MMNB]
Material made-up	Cast Iron/ Cast Steel/ Stainless Steel
Body & Disc Liner	Nitrile/ EPDM/ PTFE
End Connection	Wafer & Flanged type – ASA/BS

Design - HIC **BTFV1**



Nomenclature of Needle Valves

Size, Test Pressure, Body Material, Seal to Regulate Flow: Technical Data

Straight Port- NV1 Angle Type NV2	
Pressure	S/E up to 500 Bar F/E up to 300#
Size	1/8 " [3MMNB]- 2" [50MMNB]
Material made-up	Carbon Steel/ Stainless Steel /Brass/ CA 104
Body & Stem Seal	PTFE/NBR/FPM/Grafoil
Temp. Range	20°C + 500°C
End Connection	Screwed-BSP (ISO-228 T1) NPT Male/Female – Flanged ASA/BS



Nomenclature of Globe Valves

Size, Test Pressure, Body Material, Seal to Control Throttling: Technical Data

Globe	
Pressure	1500# 300#
Size	1/2 " [12MMNB]- 2" [50MMNB] 1 " [25MMNB]- 12" [300MMNB]
Material made-up	Forged Steel/ Cast Steel /Stainless Steel
Body & Stem Seal	PTFE/Grafoil
End Connection	GLV1 – Screwed/Socket/Butt Weldable GLV2 – ASA/BS/DIN

Design - HIC GLV1/GLV2



DIMENSION TABLE ND 40

Size NB	L	B	F	D	T	E	G
15	130	45	65	95	14	4	14
20	150	58	75	105	16	4	14
25	160	68	85	115	16	4	14
40	200	88	--	150	16	4	16
50	230	102	125	165	18	4	19
65	290	122	145	185	18	8	19
80	310	138	160	200	20	8	19
100	350	158	190	220	20	8	19
125	400	188	220	270	25	8	27
150	480	212	250	285	26	8	27
200	600	265	320	375	30	12	30

TEST PRESSURE				
CLASS	150 PSIG HYDROSTATIC		PNEUMATIC TEST	MAX TEMP
	BODY	SEAT & BACK SEAT		
ND 40	60 kg/cm ²	40 kg/cm ²	7 kg/cm ²	454 C

Nomenclature of Gate Valves

Size, Test Pressure, Body Material, Seal to Control Flow: Technical Data

Gate	
Pressure	1500# 300#
Size	1/2 " [12MMNB]- 2" [50MMNB] 1 " [25MMNB]- 12" [300MMNB]
Material made-up	Forged Steel/ Cast Steel /Stainless Steel
Body & Stem Seal	PTFE/Grafoil
End Connection	GTV1 – Screwed/Socket/Butt Weldable GTV2 – ASA/BS/DIN

Design - HIC **GTV1/GTV2**



DIMENSION TABLE – 150#

Size NB	25	40	50	65	80	100	125	150	200
A	127	165	178	190	203	229	254	267	292
B	51	73	92	105	127	157	186	216	270
F	79.2	98.5	121	140	152	190	216	241	298
D	108	127	152	178	190	229	254	279	343
T	14	14	16	17	19	24	24	25	29
E	4	4	4	4	4	8	8	8	8
G	16	16	19	19	19	22	22	22	22

TEST PRESSURE

CLASS	HYDROSTATIC		PNEUMATIC TEST	WORKING TEMP
	BODY	SEAT & BACK SEAT		
150	30 kg/cm ²	22 kg/cm ²	7 kg/cm ²	500 F Max

Nomenclature of Plug Valves

Size, Test Pressure, Body Material, Seal to Shut-Off Vapour: Technical Data

Self Lubricating Type 2 WAY – 3 WAY	
Pressure	150#
Size	1 " [25MMNB]- 3" [80MMNB]
Material made-up	Cast Iron/ Cast Steel /Stainless Steel
Body & Stem Seal	PTFE/Grafoil
End Connection	Screwed/Flanged ASA/BS

Design - HIC PLGV2/PLGV3

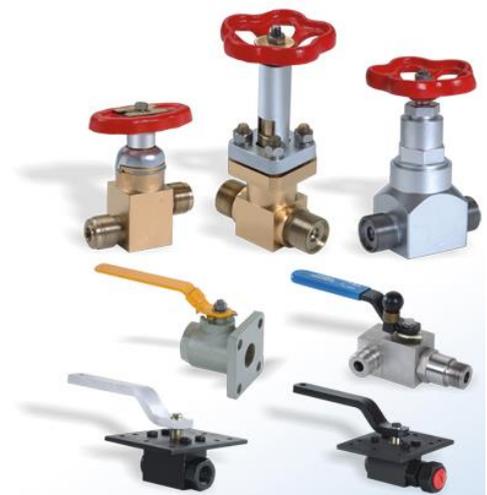


Nomenclature of Angle Type Cylinder Valves

Tailor-made for Warship and Submarine projects: Technical Data

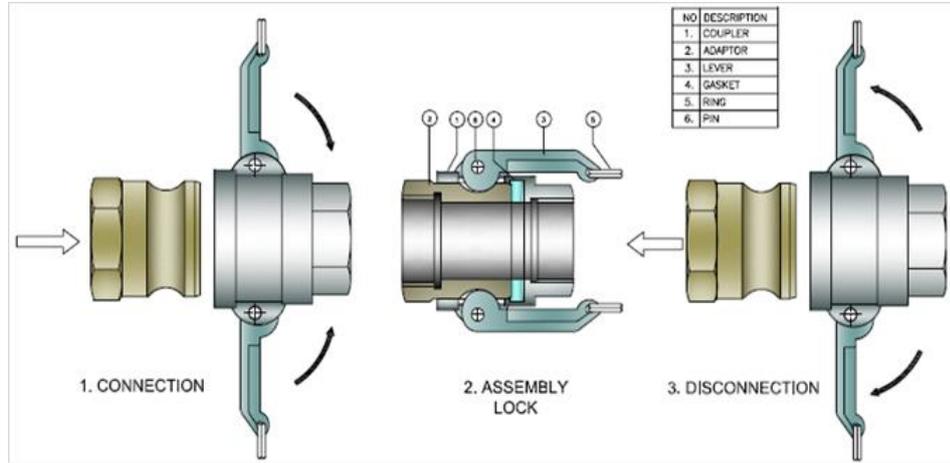
Angle Type
Plate mounting Ball valve for bitumen sprayer
Screwed X Flanged end Flush Bottom Type Ball valve
Valves developed for warship and submarine projects

Design - HIC 0500ATC

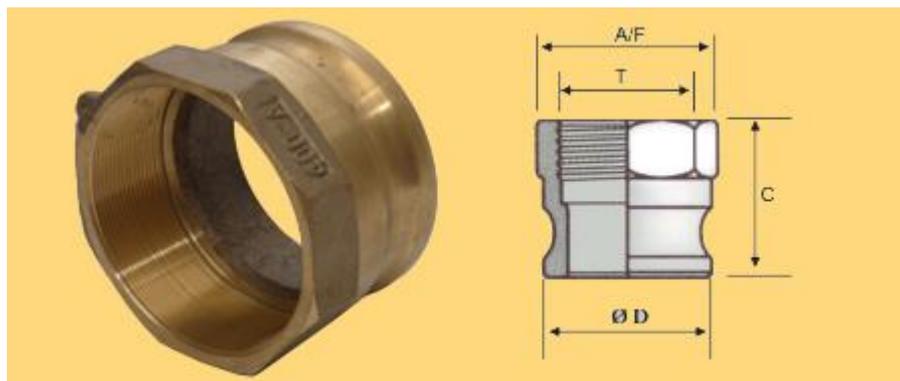


Nomenclature of Camlock Coupling

Size, Dimension to Handle Liquid, Mud, Viscose, Cargo Drill Water: Technical Data



Camlock Female Adaptor A



Serial No.	Camlock Size	A/F	C	ØD
1	1/2"	25	40	22.7
2	3/4"	33	43.6	32.1
3	1"	38.5	48.1	36.7
4	1 1/4"	48	55	45.5
5	1 1/2"	54	55.5	53.4
6	2"	66.5	62	63
7	2 1/2"	80.5	86.3	75.8
8	3"	96	70.2	91.5
9	4"	130.5	79.9	119.5
10	5"	155.5	80.9	145.5
11	6"	183.5	94.1	176.3

All dimensions are in mm; dimensions subject to change without notice please.

Camlock Male Coupler B



Serial No.	Camlock Size	A	B	C
1	1/2"	119.4	54.7	54.1
2	3/4"	113.0	53.0	49.3
3	1"	133.1	63.2	63.5
4	1 1/4"	180.0	84.0	66.0
5	1 1/2"	190.6	82.1	72.6
6	2"	198.6	94.1	84.7
7	2 1/2"	210.0	109.2	83.9
8	3"	253.2	132.8	92.5
9	4"	272.2	160.4	93.2
10	5"	354.0	200.0	115.5
11	6"	422.0	258.0	112.0

All dimensions are in mm; dimensions subject to change without notice please.

Camlock Hose Coupler C



Serial No.	Camlock Size	A	B	C	H	ØD
1	1/2"	114.0	52.0	84.0	52.3	15.2
2	3/4"	113.9	52.0	84.0	52.3	20.9
3	1"	120.5	60.2	106.9	60.9	26.1
4	1 1/4"	177.0	80.0	112.0	57.0	34.6
5	1 1/2"	189.4	83.6	112.5	68.5	39.7
6	2"	193.7	95.0	129.6	79.7	52.5
7	2 1/2"	211.0	106.8	139.2	87.0	65.9
8	3"	241.9	133.5	162.1	104.7	77.1
9	4"	263.0	158.0	163.0	93.0	102.5
10	5"	336.0	200.0	191.5	125.0	131.2
11	6"	402.7	229.3	230.0	165.0	149.6

All dimensions are in mm; dimensions subject to change without notice please.

Camlock Female Coupler D



Serial No.	Camlock Size	A	B	C	A/F
1	1/2"	105.0	46.0	42.5	25.5
2	3/4"	115.0	53.0	46.0	32.0
3	1"	133.3	61.3	55.3	38.5
4	1 1/4"	177.0	80.0	63.0	50.0
5	1 1/2"	188.0	92.3	66.0	54.5
6	2"	198.4	100.7	75.7	66.5
7	2 1/2"	211.3	111.7	82.3	81.5
8	3"	244.2	134.4	87.2	94.5
9	4"	280.0	163.0	100.9	124.0
10	5"	306.4	192.0	106.3	153.5
11	6"	418.9	245.2	113.0	185.0

All dimensions are in mm; dimensions subject to change without notice please.

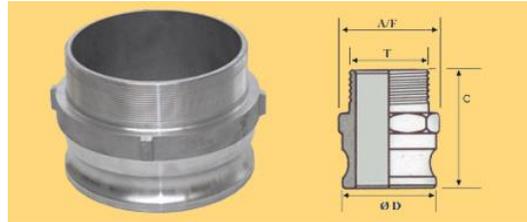
Camlock Hose Adaptor E



Serial No.	Camlock Size	ØD1	C	ØH	ØD	L
1	1/2"	34.0	70.5	15.0	32.5	38.0
2	3/4"	32.7	87.0	22.0	32.1	51.3
3	1"	41.5	99.0	27.0	36.7	54.7
4	1 1/4"	54.5	110.0	34.0	45.5	56.0
5	1 1/2"	55.4	114.4	39.2	53.4	60.6
6	2"	66.7	131.5	52.6	63.0	69.7
7	2 1/2"	81.1	142.5	66.5	75.8	80.3
8	3"	101.5	144.1	79.4	91.5	81.3
9	4"	123.7	175.2	102.3	119.5	141.2
10	5"	166.5	199.2	132.0	146.0	121.4
11	6"	209.1	246.7	157.5	175.3	159.9

All dimensions are in mm; dimensions subject to change without notice please.

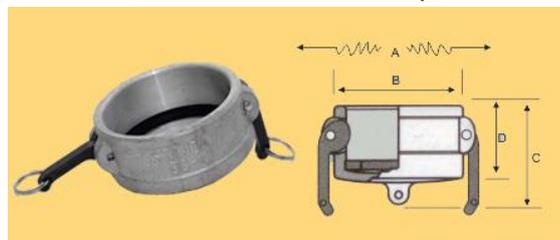
Camlock Male Adaptor F



Serial No.	Camlock Size	A/F	C	ØD
1	1/2"	34.0	49.0	32.0
2	3/4"	32.5	55.0	32.1
3	1"	40.0	66.0	36.7
4	1 1/4"	48.0	77.0	45.5
5	1 1/2"	55.5	76.8	53.4
6	2"	65.0	86.6	63.0
7	2 1/2"	81.0	99.5	75.8
8	3"	92.5	100.0	91.5
9	4"	120.5	113.3	119.5
10	5"	156.0	130.4	146.0
11	6"	179.5	139.8	175.8

All dimensions are in mm; dimensions subject to change without notice please.

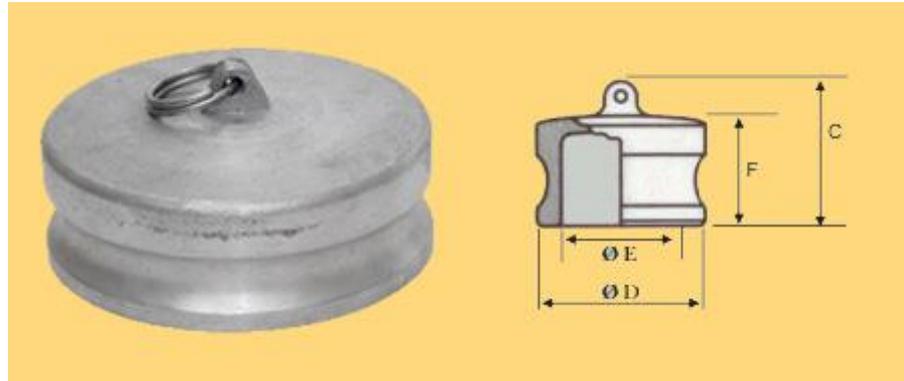
Camlock Dust Cap



Serial No.	Camlock Size	A	B	C	D
1	1/2"	117.0	60.0	46.0	38.0
2	3/4"	117.0	60.0	46.0	38.0
3	1"	135.0	69.0	51.0	41.0
4	1 1/4"	177.0	80.0	54.0	44.0
5	1 1/2"	149.0	87.0	57.0	47.0
6	2"	159.0	97.0	65.0	54.0
7	2 1/2"	207.0	111.0	70.0	54.0
8	3"	253.0	137.0	70.0	59.0
9	4"	278.0	162.0	74.0	61.0
10	5"	305.0	189.0	75.0	62.0
11	6"	413.0	260.0	85.0	71.0

All dimensions are in mm; dimensions subject to change without notice please.

Camlock Dust Plug



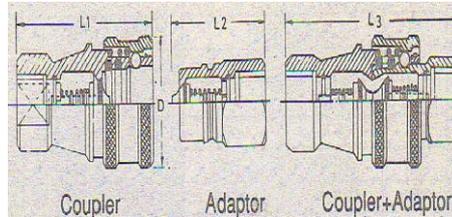
Serial No.	Cam Groove Coupling Size	ØD	ØE	F	C
1	1/2"	32.6	14.0	29.0	37.0
2	3/4"	32.6	19.0	29.0	37.0
3	1"	36.5	24.0	32.0	42.0
4	1 1/4"	45.4	27.0	39.0	51.0
5	1 1/2"	53.3	36.0	41.0	51.0
6	2"	63.0	45.0	49.0	60.0
7	2 1/2"	75.8	57.5	46.0	58.0
8	3"	92.0	71.0	53.0	64.0
9	4"	119.4	80.0	53.0	66.0
10	5"	146.0	86.0	54.0	67.0
11	6"	176.0	86.0	54.0	68.0

All dimensions are in mm; dimensions subject to change without notice please.

Nomenclature of Quick Coupling

Size, Dimension of Hydraulic and Pneumatic Air to Handle Flow: Technical Data

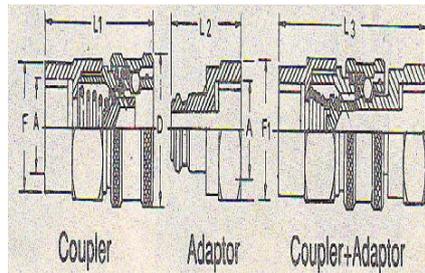
QRC DOUBLE CHECK Type Design (QRC-VV)



Sr. No.	Size	Type	C	A	C+A	Maximum Diameter in MM	Working Pressure in PSI	Test Pressure PSI
			L1 in mm	L2 in mm	L3 in mm			
1	1/8" BSP	QRC-VV1	44	33	58	23	4000	6000
2	1/4" BSP	QRC-VV2	58	40	72	32	4000	6000
3	3/8" BSP	QRC-VV3	66	46	80	38	4000	6000
4	1/2" BSP	QRC-VV4	71	50	90	44	3500	5000
5	3/4" BSP	QRC-VV5	77	55	98	48	3000	4500
6	1" BSP	QRC-VV6	85	63	112	58	3000	4500
7	1-1/4" BSP	QRC-VV7	94	65	120	72	2000	3000
8	1-1/2" BSP	QRC-VV8	113	80	144	89	2000	3000
9	2" BSP	QRC-VV9	127	88	152	105	1000	2000

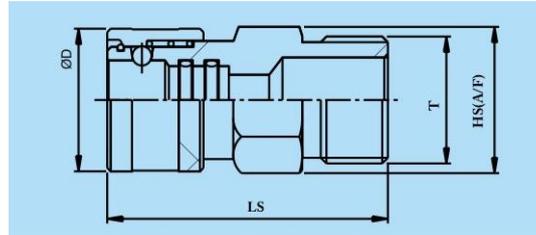
* Manufacture of other type & style undertake for which please send used specimen sample and details as indicated in min. Information required while sending enquiry be sent.

QRC SINGLE CHECK Type Design (QRC-V)



Sr. No.	Size	Type	A	D in mm	F in mm	F1 in mm	L1 in mm	L2 in mm	L3 in mm	W.P PSI
1	1/8"	QRC-V1	1/8" BSP	19	16	14	41	27	54	500
2	1/4"	QRC-V2	1/4" BSP	24	21	19	53	33	70	500
3	3/8"	QRC-V3	3/8" BSP	24	22	22	55	35	73	500
4	1/2"	QRC-V4	1/2" BSP	34	28	28	68	42	89	500
5	3/4"	QRC-V5	3/4" BSP	40	35	32	83	46	107	500
6	1"	QRC-V6	1" BSP	42	50	40	84	50	111	500
7	1-1/4"	QRC-V7	1-1/4" BSP	49	50	50	89	54	120	500

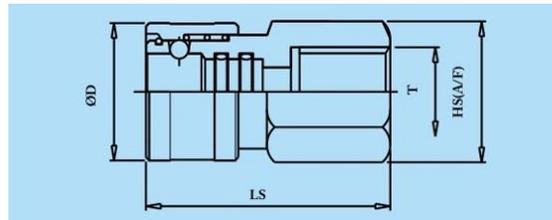
Coupling Socket Male - straight through



Serial No.	Straight Through Coupling Socket (M) Size	ØD	HS	LS
1	1/4"	29.0	22.0	39.0
2	3/8"	29.0	22.0	39.0
3	1/2"	34.0	32.0	51.8
4	3/4"	38.0	32.0	50.0
5	1"	51.0	41.0	72.0
6	1-1/4"	62.5	55.0	82.0
7	1-1/2"	62.5	55.0	82.0
8	2"	78.0	70.0	87.0
9	2-1/2"	124.5	114.0	103.8
10	3"	124.5	114.0	103.8

All dimensions are in mm; dimensions subject to change without notice please.

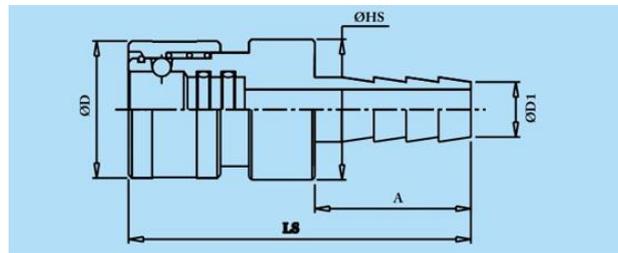
Coupling Socket Female - straight through



Serial No.	Straight Through Coupling Socket (F) Size	ØD	HS	LS
1	1/4"	29.0	22.0	39.0
2	3/8"	29.0	22.0	39.0
3	1/2"	34.0	32.0	44.3
4	3/4"	38.0	32.0	41.0
5	1"	51.0	41.0	53.0
6	1-1/4"	62.5	55.0	64.0
7	1-1/2"	62.5	55.0	64.0
8	2"	78.0	70.0	65.5
9	2-1/2"	124.5	114.0	80.5
10	3"	124.5	114.0	80.5

All dimensions are in mm; dimensions subject to change without notice please.

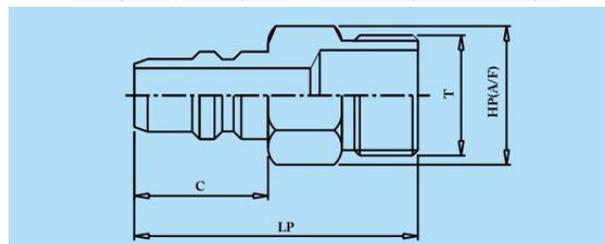
Coupling Socket Hose - straight through



Serial No.	Straight Through Coupling Hose Socket Size	ØD	ØHS	ØD1	A	LS
1	1/4"	29.0	24.0	6.8	28.0	52.0
2	3/8"	29.0	24.0	10.5	29.8	53.8
3	1/2"	34.0	32.0	15.0	38.0	67.3
4	3/4"	38.0	34.2	21.0	45.0	79.0
5	1"	51.0	49.0	27.5	57.0	98.0
6	1-1/4"	62.5	62.5	33.5	60.3	110.3
7	1-1/2"	62.5	62.5	39.5	60.3	110.3
8	2"	78.0	76.2	53.0	73.0	124.0
9	2-1/2"	124.5	120.0	65.5	80.0	140.0
10	3"	124.5	120.0	78.1	100.0	160.0

All dimensions are in mm; dimensions subject to change without notice please.

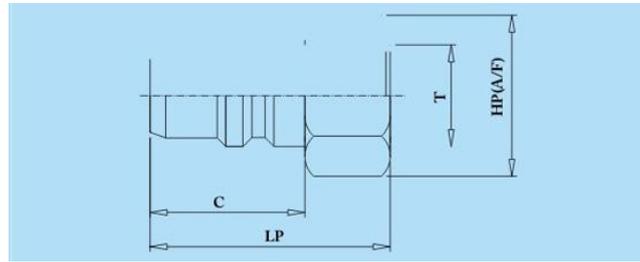
Coupling Plug Male - straight through



Serial No.	Straight Through Coupling Plug Size Male	HP	C	LP
1	1/4"	17.0	22.5	42.5
2	3/8"	17.0	22.5	42.5
3	1/2"	22.0	25.5	49.5
4	3/4"	27.0	23.0	49.0
5	1"	37.0	31.5	66.5
6	1-1/4"	50.0	33.0	72.0
7	1-1/2"	50.0	33.0	72.0
8	2"	65.0	39.0	83.0
9	2-1/2"	114.0	35.0	98.0
10	3"	114.0	35.0	98.0

All dimensions are in mm; dimensions subject to change without notice please.

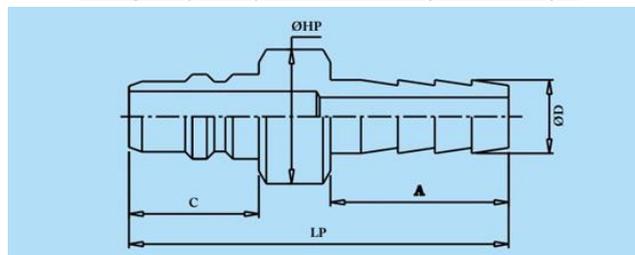
Coupling Plug Female - straight through



Serial No.	Straight Through Coupling Plug Size Female	HP	C	LP
1	1/4"	17.0	22.5	37.5
2	3/8"	22.0	22.5	37.5
3	1/2"	27.0	25.5	43.5
4	3/4"	32.0	23.0	42.0
5	1"	41.0	31.5	53.5
6	1-1/4"	55.0	33.0	60.0
7	1-1/2"	55.0	33.0	60.0
8	2"	70.0	39.0	67.0
9	2-1/2"	114.0	35.0	72.0
10	3"	114.0	35.0	72.0

All dimensions are in mm; dimensions subject to change without notice please.

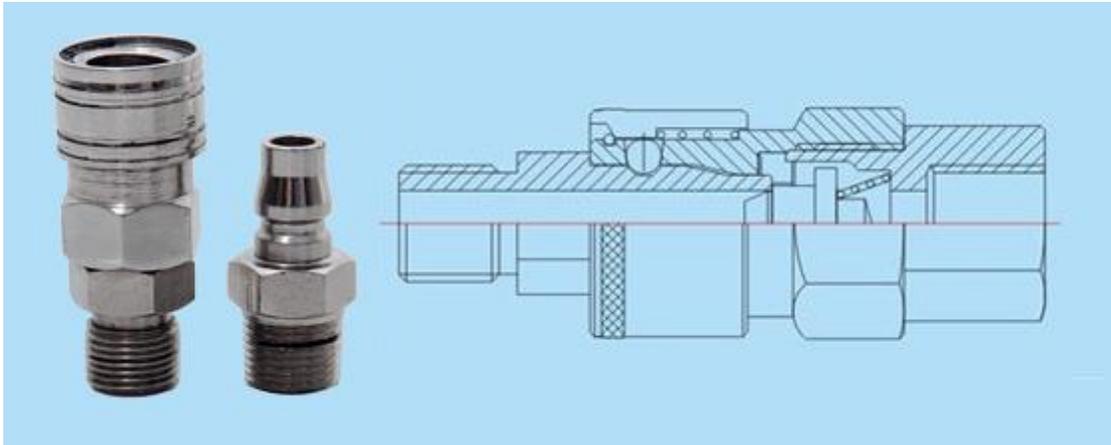
Coupling Plug Hose - straight through



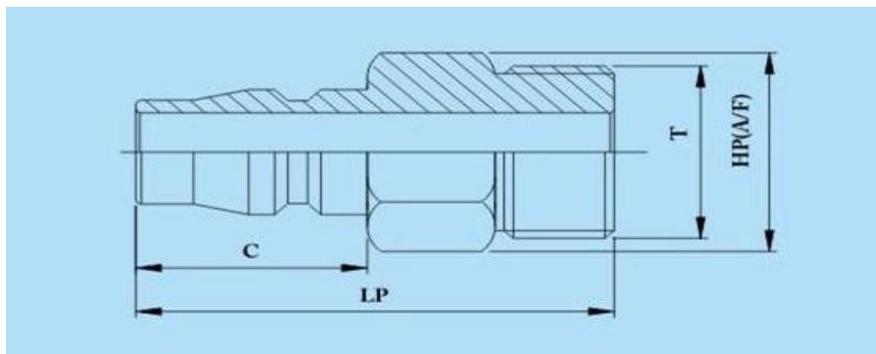
Serial No.	Straight Through Coupling Hose Plug Size	ØHP	ØD	A	C	LP
1	1/4"	17.0	6.8	28.0	22.5	54.5
2	3/8"	17.0	10.5	29.8	22.5	56.3
3	1/2"	22.0	15.0	38.0	25.5	66.5
4	3/4"	25.4	21.0	45.0	23.0	72.0
5	1"	38.0	27.5	57.1	31.5	94.6
6	1-1/4"	50.0	33.5	60.3	33.0	99.3
7	1-1/2"	50.0	39.5	60.3	33.0	99.3
8	2"	62.5	53.0	73.0	39.0	120.0
9	2-1/2"	99.5	65.5	80.0	35.0	135.0
10	3"	99.5	78.1	100.0	35.0	155.0

All dimensions are in mm ; dimensions subject to change without notice please.

Air Couplings Quick Release-SV 10



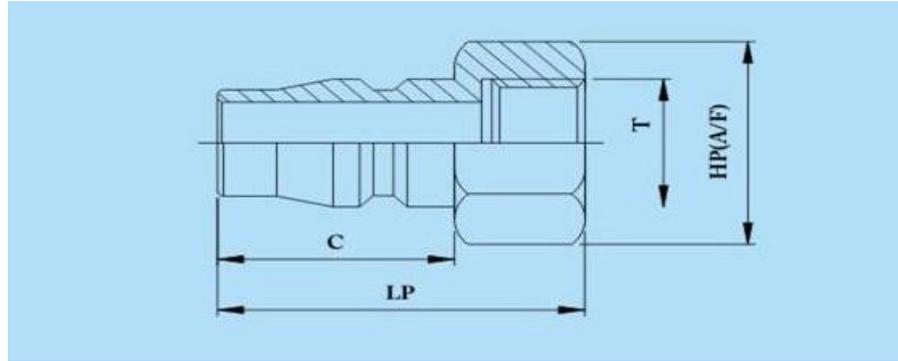
Quick Coupling Plug Male pneumatic-SV 10



Serial No.	Quick Pneumatic Coupling Plug Size Male (SV 10)	HP	C	LP
1	1/4"	14.0	20.0	40.0
2	3/8"	23.0	20.0	41.0
3	1/2"	23.0	20.0	46.0
4	1/2"	23.0	23.5	50.0
5	3/4"	32.0	23.5	55.0
6	1"	35.0	23.5	63.0

All dimensions are in mm; dimensions subject to change without notice please.

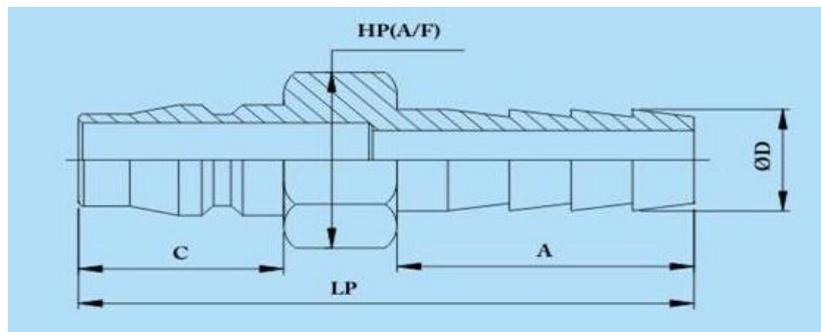
Quick Coupling Plug Female pneumatic-SV 10



Serial No.	Quick Pneumatic Coupling Plug Size Female (SV 10)	HP	C	LP
1	1/4"	17.0	20.0	35.0
2	3/8"	21.0	20.0	36.0
3	1/2"	24.0	20.0	39.0
4	1/2"	29.0	23.5	41.0
5	3/4"	35.0	23.5	45.0
6	1"	41.0	23.5	54.0

All dimensions are in mm; dimensions subject to change without notice please.

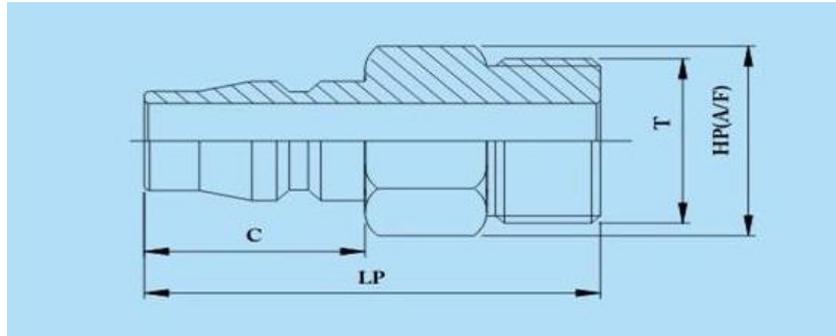
Quick Coupling Plug Hose pneumatic-SV 10



Serial No.	Quick Pneumatic Coupling Hose Plug Size (SV 10)	HP	C	A	LP
1	1/4"	16.0	20.0	30.0	55.0
2	3/8"	18.0	20.0	30.0	55.0
3	1/2"	18.0	20.0	32.0	57.0
4	1/2"	22.0	23.5	35.0	65.0
5	3/4"	30.0	23.5	43.0	73.0
6	1"	34.0	23.5	50.0	81.0

All dimensions are in mm; dimensions subject to change without notice please.

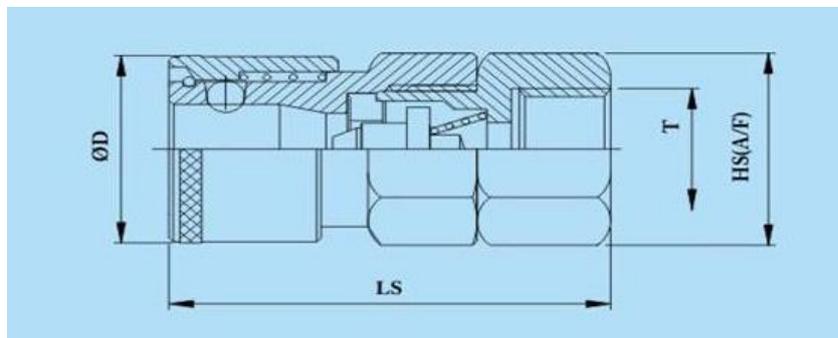
Quick Coupling Socket Male pneumatic-SV 10



Serial No.	Quick Pneumatic Coupling Male Socket Size (SV 10)	HS	ØD	LS
1	1/4"	19.0	25.0	51.5
2	3/8"	19.0	25.0	52.5
3	1/2"	22.0	25.0	53.5
4	1/2"	29.0	35.0	64.0
5	3/4"	32.0	35.0	66.0
6	1"	36.0	35.0	71.0

All dimensions are in mm; dimensions subject to change without notice please.

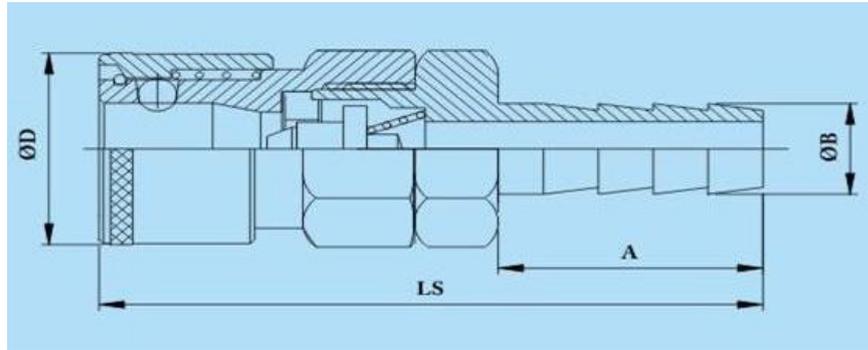
Quick Coupling Socket Female pneumatic-SV 10



Serial No.	Quick Pneumatic Coupling Female Socket Size (SV 10)	HS	ØD	LS
1	1/4"	19.0	25.0	48.5
2	3/8"	21.0	25.0	49.5
3	1/2"	24.0	25.0	51.0
4	1/2"	29.0	35.0	62.0
5	3/4"	32.0	35.0	64.0
6	1"	41.0	35.0	68.0

All dimensions are in mm; dimensions subject to change without notice please.

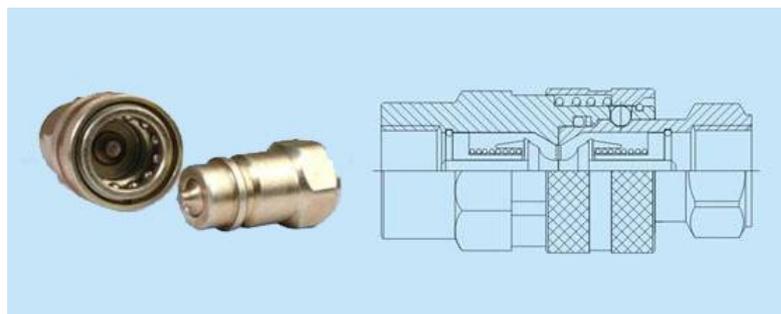
Quick Coupling Socket Hose pneumatic-SV 10



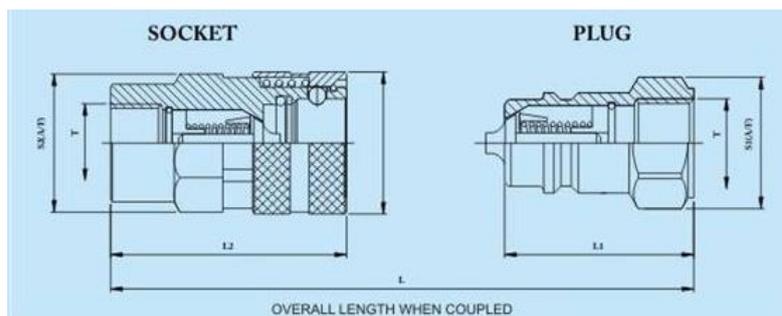
Serial No.	Quick Pneumatic Coupling Hose Socket Size (SV 10)	ØD	A	LS
1	1/4"	25.0	30.0	67.5
2	3/8"	25.0	30.0	67.5
3	1/2"	25.0	32.0	70.5
4	1/2"	35.0	36.0	83.0
5	3/4"	35.0	45.0	91.0
6	1"	35.0	55.0	97.0

All dimensions are in mm; dimensions subject to change without notice please.

Hydraulic coupling quick release-ISO A 7241



Quick Coupling ISO A 7241 hydraulic



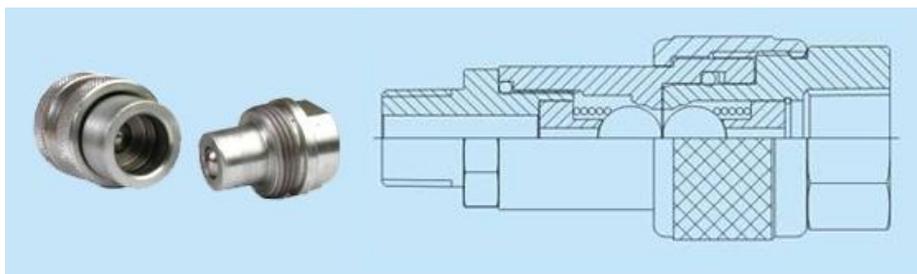
Serial No.	Hydraulic Quick Coupling ISO A 7241 Size	L1	L2	S1	S2	ØD1	L
1	1/4"	32.0	47.0	19.0	19.0	26.0	64.8
2	3/8"	38.0	56.0	22.0	27.0	31.0	76.4
3	1/2"	46.0	67.2	27.0	32.0	38.0	91.0
4	3/4"	55.0	82.0	36.0	38.0	48.0	109.4
5	1"	63.0	97.0	41.0	46.0	54.0	126.0

All dimensions are in mm; dimensions subject to change without notice please.

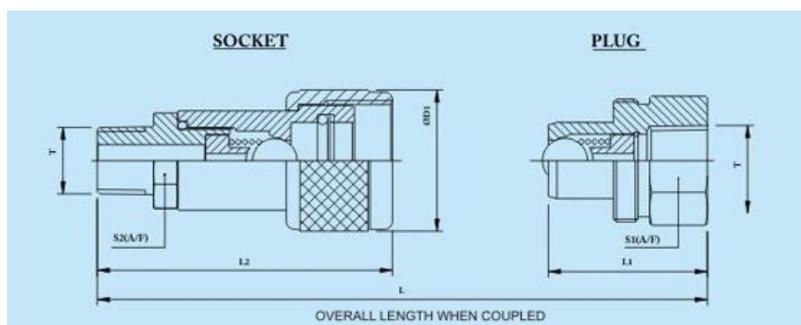
Hydraulic High Pressure Quick Couplings-HP



SPECIFICATIONS	High Pressure Quick Coupling Range
Size	1/4" to 3/4"
Working Pressure	Up to 980 Bar
Material	Carbon Steel

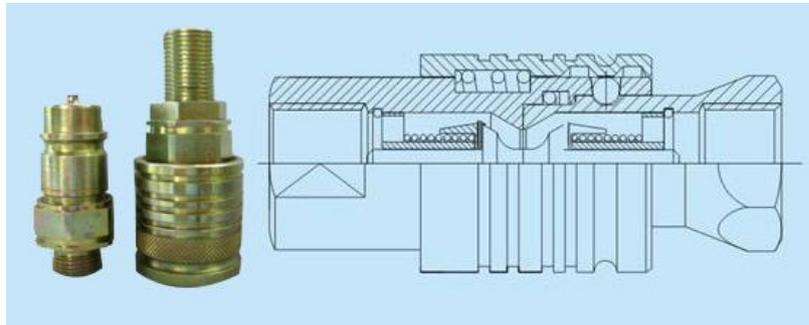


Hydraulic High Pressure Jack Screw Couplings-JS

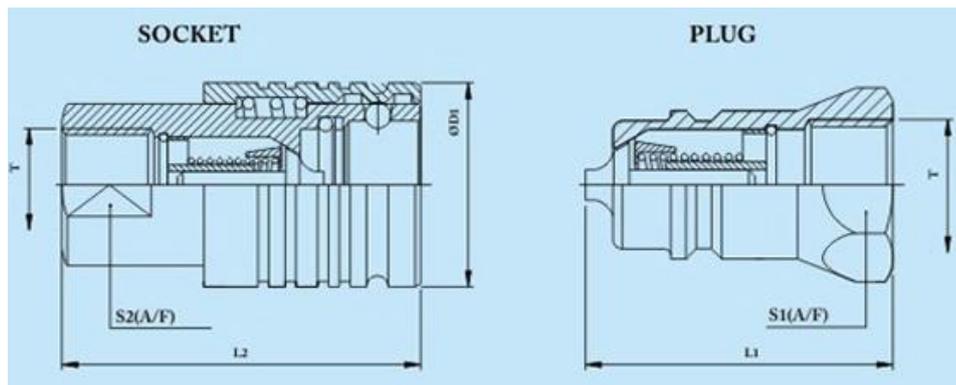


Serial No.	High Pressure Jack Screw Coupling Size	L1	L2	S1	S2	ØD1	L
1	1/4"	39.0	60.0	27.0	19.0	30.0	81.0
2	3/8"	39.0	73.5	32.0	24.0	35.0	87.0

All dimensions are in mm; dimensions subject to change without notice please.



Push Pull hydraulic construction equipment couplings



Push Pull Male Plug with Female Thread

Serial No.	Push Pull Coupling Male Plug Size	L1	S1
1	3/8" NPTF	40.6	24.0
2	1/2" NPTF	49.5	27.0

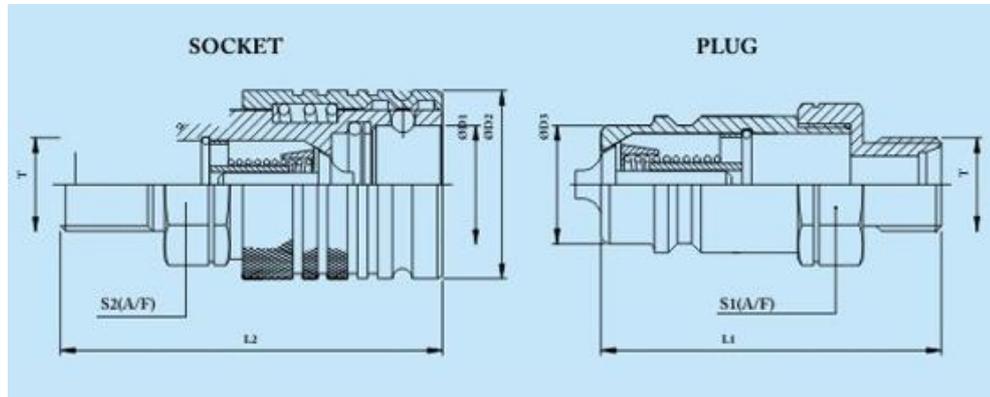
All dimensions are in mm; dimensions subject to change without notice please.

Push Pull Female Socket with Female Thread

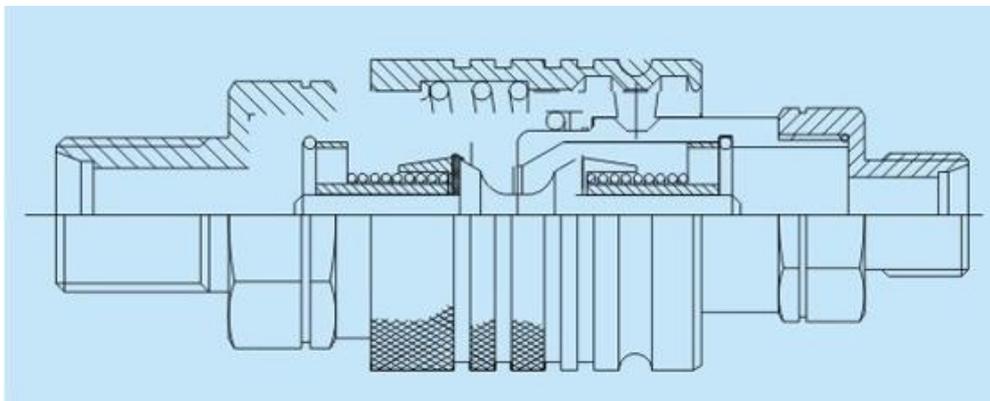
Serial No.	Push Pull Coupling Female Socket Size	L2	ØD1	S2
1	3/8" NPTF	58.7	33.3	20.6
2	1/2" NPTF	68.0	38.0	24.0

All dimensions are in mm; dimensions subject to change without notice please.

Push Pull Agricultural-Coupling-Male



Push Pull Agricultural-Coupling-Male



Push Pull Agricultural-Coupling-Male

Serial No.	Push Pull Coupling Male Plug Female Thread Size	L1	ØD3	S1
1	18 x 1.5	68.0	20.5	27.0
2	22 x 1.5	68.0	20.5	27.0
3	22 x 1.5(Short)	56.0	20.5	27.0

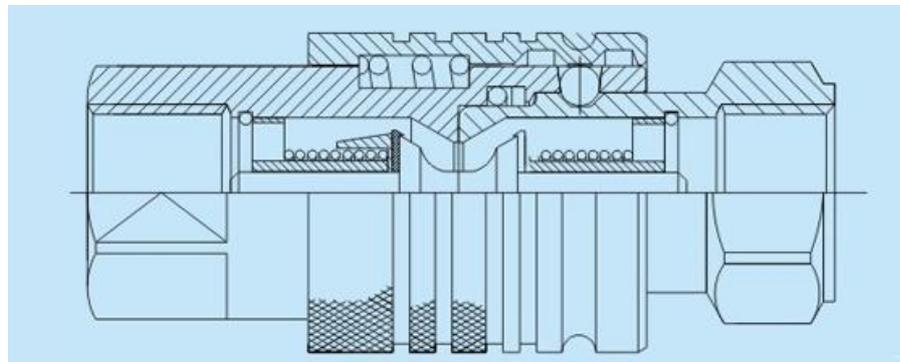
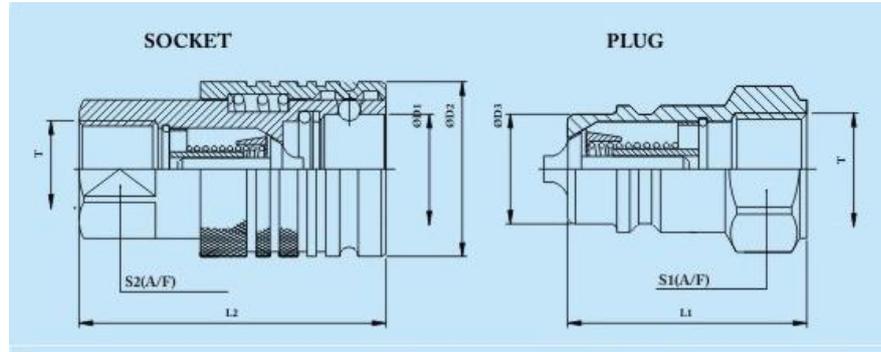
All dimensions are in mm ; dimensions subject to change without notice please.

Push Pull Agricultural Female Socket with Female Thread

Serial No.	Push Pull Coupling Female Socket Female Thread Size	L2	ØD1	ØD1	S2
1	1/4" BSP		23.9	38.0	27.0
2	3/8" BSP		23.9	38.0	27.0
3	1/2" BSP		23.9	38.0	27.0
4	18 x 1.5	84.0	23.9	38.0	27.0
5	22 x 1.5	84.0	23.9	38.0	27.0
6	22 x 1.5(Short)	72.0	23.9	38.0	27.0

All dimensions are in mm ; dimensions subject to change without notice please.

Push Pull Agricultural Coupling Female



Push Pull Agricultural Coupling Female

Serial No.	Push Pull Coupling Male Plug Female Thread Size	L1	ØD3	S1
1	1/2" BSP	46.0	20.5	27.0
2	18 x 1.5	57.0	20.5	30.0
3	22 x 1.5	57.0	20.5	30.0
4	7/8" - 14 UNF	58.0	20.5	30.0
5	3/4" - 16 UNF	58.0	20.5	30.0

All dimensions are in mm ; dimensions subject to change without notice please.

Push Pull Agricultural Female Socket with Female Thread

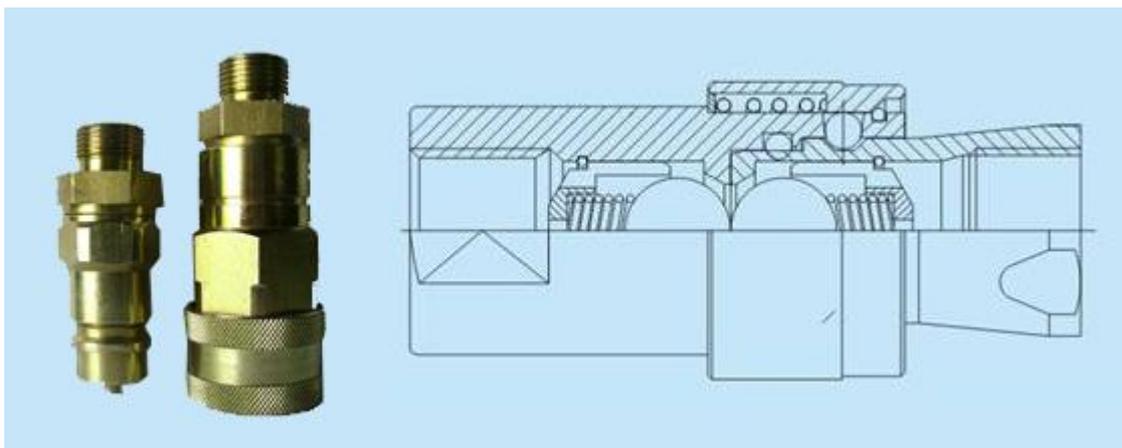
Serial No.	Push Pull Coupling Female Socket Female Thread Size	L2	ØD1	ØD1	S2
1	1/2" BSP	66.0	23.9	38.0	27.0
2	18 x 1.5	73.0	23.9	38.0	30.0
3	22 x 1.5	73.0	23.9	38.0	30.0
4	7/8" - 14 UNF	74.0	23.9	38.0	30.0
5	3/4" - 16 UNF	74.0	23.9	38.0	30.0
6	3/4" - 16 UNF	83.2	23.9	38.0	27.0

All dimensions are in mm; dimensions subject to change without notice please.

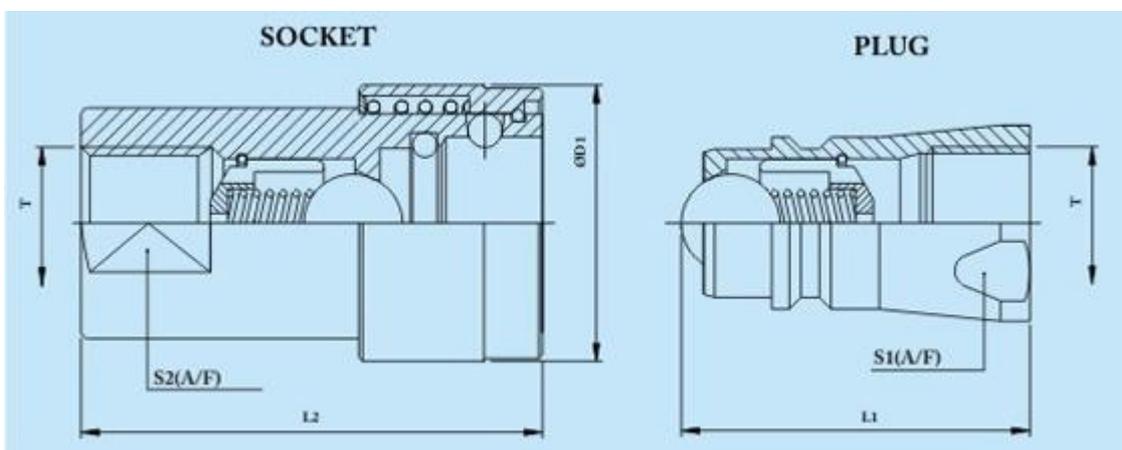
Trailer Break ISO 5675 agricultural farm equipment quick couplings



SPECIFICATIONS-Trailer Break agricultural couplings	
Conforms to ISO - 5675 / 7241 A	
End Fittings BSP / NPT / UNF	
Connectors as required	



Poppet Style hose couplings quick disconnect type



Poppet Style Agricultural Coupling Male Plug with Female Thread

Serial No.	Poppet Type Coupling Male Plug Female Thread Size	L1	S1
1	1/4" NPTF	33.3	19.0
2	3/8" NPTF	41.0	24.0
3	1/2" NPTF	48.4	27.0
4	3/4" NPTF	46.0	33.3
5	1" NPTF	71.0	41.5

All dimensions are in mm; dimensions subject to change without notice please.

Poppet Style Agricultural Coupling Female Socket With Female Thread

Serial No.	Poppet Type Coupling Female Socket Female Thread Size	L2	ØD1	S2
1	1/4" NPTF	49.3	27.0	22.5
2	3/8" NPTF	59.0	34.0	24.0
3	1/2" NPTF	68.0	38.0	27.0
4	3/4" NPTF	89.0	48.3	35.0
5	1" NPTF	97.6	53.0	41.5

All dimensions are in mm; dimensions subject to change without notice please.

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



Selection of Industrial Control Valve

Hydraulic, Pneumatic High Pressure Fluid Flow HIC Valves Guide *

Follow simple steps for as to How to select ball valve or globe valve or butterfly valve or needle valve or non-return valve or gate valve or quick release coupling or cam groove coupling with respect to fluid conveyed for hydraulic pneumatic pressure control of industrial processes:-

Step 1 of HIC Universal control valve Selection:

Fluid Passed medium - Control valve through which fluid to be conveyed like Liquid or Gas or Solids, and, based on flowing medium proper valve is to be selected for desired application.

Step 2 of HIC Universal control valve Selection:

Nature of Fluid to flow - Select suitable industrial valve based on type of fluid whether liquid or gas or solids, and these fluid's nature.

Where valve has to handle liquid except gas or solids, nature of LIQUID is whether Neutral Water or neutral Oil OR Corrosive Acid or corrosive Alkaline OR Hygienic Beverages or Slurry.

Water valve application is quite suitable to be used with Gate valve or Ball valve or Plug valve or Butterfly valve.

Oil valve application is quite suitable to be used with Ball valve or Globe valve or Butterfly valve or Plug valve or Needle valve.

Acid valve application is quite suitable to be used with Gate valve or Ball valve or Globe valve or Butterfly valve.

Alkaline valve application is quite suitable to be used with Gate valve or Ball valve or Globe valve or Butterfly valve.

Beverages valve and Food grade valve application is quite suitable to be used with Butterfly valve or Ball valve.

Slurry valve application is quite suitable to be used with Plug valve or Ball valve or Butterfly valve.

Similarly, where valve has to handle gas, nature of GAS is whether Neutral Air or neutral Steam OR Corrosive Acid Vapours or corrosive Chlorine or Vacuum.

Air control valve application is quite suitable to be used with Gate valve or Needle valve or Globe valve or Ball valve or Non Return valve or Plug valve or Butterfly valve.

Steam valve application is quite suitable to be used with Non-Return valve or Ball valve or Needle valve or Globe valve.

Vapour control valve application is quite suitable to be used with Plug valve or Butterfly valve or Ball valve or Needle valve.

Chlorine service valve application is quite suitable to be used with Ball valve or Globe valve.





Valve has to otherwise handle solids except liquid or gas, nature of SOLIDS is whether Lubricating Powder such as Graphite or Talcum application, Gate valve or other types found suitable.

Step 3 of HIC Universal control valve Selection:

Functionality of valve and Design pattern - Identify if valve is required for 2-way valve for flow, pressure or temperature control or a 3-way mixing or anti-reverse flow or diverting application valve, thus, control valve selection can be made by following valve features and meeting function criteria:-

Ball valves > Quick On or Off flow, easy to clean.

Globe valves > Exact Throttling but high pressure drop, Very Good flow control, difficult to clean.

Butterfly valves > High Capacities flow control capability, low pressure drop.

Plug valves > Very Swift On or Off conditions are more rugged, but expensive.

Non Return valves or **Check valves** > High Resistance to flow in one direction only, anti-reverse flow.

Gate valves > Infrequent operation, tight shut-off.

Step 4 of HIC Universal control valve Selection:

Size plus End Connection of valve choice – Nominal Bore size MM or Inch of valve be chosen for pipe connection and Threaded size or Flanged class table reference or Socket weld or Butt-Weld.

Flow Capacity in lb/hr is also estimated for valve.

Step 5 of HIC Universal control valve Selection:

Body Material of valve to be chosen – Select Body material if significant for piping valve compatibility as per flow media handling application, characteristics of metal for quick reference stated below:-

Carbon Steel valve A-216 WCB grade > Higher pressure ratings withstanding capacity than stainless steel valve.

Stainless Steel valve SS304 quality > Resists corrosion outstandingly and high pressure ratings withstanding capacity slightly lower than carbon steel valve.

Cast Steel valve > High pressure ratings withstanding capacity for pipeline size above 2" size.

Forged Steel valve > High and low Temperature withstanding capacity including pressure with good sealing performance, lighter in weight valve superb for isolation applications below 3" size.

Brass valve > Extreme Cold climatic conditions withstanding capacity, good for water and air services application.





Step 6 of HIC Universal control valve Selection:

Pressure Rating of valve – Pressure rating at the valve inlet minimum and maximum operating or working pressure be known for the purpose of selecting from vast range of industrial valves models design pattern suitable for application.

Step 7 of HIC Universal control valve Selection:

Seat Material and Temperature at the valve inlet – Valve seat material must be selected based upon flow medium service application plus resistance to temperature and operating pressure resistance withstanding capacity, characteristics of valve seat properties for quick reference stated below:-

CFT valve seat material > Carbon graphite filled Teflon sealing, good for Steam services to withstand temperature of -50°F to + 450 °F.

FKM valve seat material > Viton elastomer sealing superb for Concentrated Acids, except steam application for all rated pressures valve to withstand temperature of -20°F to + 400 °F.

GFT valve seat material > Glass fibres filled Teflon sealing, good Chemical resistance plus super Thermal Conductivity superior to Virgin Teflon PTFE for very low cold flow services.

GRAPHOIL valve seat material > Fire rated quality sealing for any flow media to withstand temperature of -70°F to + 1000 °F.

NBR valve seat material > Nitrile synthetic rubber sealing superb for Hydrocarbon and general purpose services to withstand temperature of -13°F to + 212°F equivalent -25°C to + 100°C.

PEEK valve seat material > Carbon reinforced polyetherether ketone sealing excellent Chemical Resistant suitable for Nuclear radiation, Tobacco services up to 4500 psi pressure rating to withstand temperature of + 600°F.

POM valve seat material > Delrin sealing good Hydraulic Oil Resistant plus Natural Gas resistance except oxygen and steam services up to 6000 psi pressure rating to withstand temperature of -70°F to + 180°F.

PTFE valve seat material > Virgin Teflon sealing superb Chemical Resistance plus good for Cryogenic material flow application except molted alkali metals services to withstand temperature of -430°F to + 450°F.

VMQ valve seat material > Silicone elastomer sealing superb for Hot Air plus Chlorinated Diphenyls except steam or water or petroleum fluid services to withstand temperature of -58°F to + 356°F equivalent -50°C to + 180°C.

*check Disclaimer, please



Purchase Enquiry Info

Ball, Needle, Butterfly, Globe, Plug, Gate Valve or Camlock, QRC Min. Information to Be Sent

(Email at: belts@universaldelhi.org ; universal@hic-india.com or Call +91 11 2874 5120)

HIC ships control ball check valve pneumatic hydraulic coupling conforming IS 9884 tailor-made to buyer's order specifications to different countries including India. Please send following information in English to quote prices:

1. **Size** of Valve or Coupling nominal bore MM or Inch, **End Connection** Threaded BSP or NPT female-male or Flanged Class ASA-DIN-BS or Socket weld or Butt-weld
2. **Pattern** of valve or coupling design, ball or globe or needle or plug or gate or butterfly or non-return or quick release Coupling or camlock Coupling
3. **Pressure** working, bar or psi
4. **Application** medium to flow, air or gas or liquid or vapour or water or steam
5. **Body** plus **Seal** material of valve
6. **Temperature** degrees Max of fluid
7. **Quantity**- Numbers



Shipment Handling and Delivery Time

Bulk quantity orders are packed in sea-worthy jute or HDPE in Boxes shipped via sea in less than container loads (LCL) /FCL or by air. Sea freight (BL) or Air freight (AWB) charges payable at destination.

Small orders are shipped overseas via **DHL** or **FedEx** or **Aramex** courier, for which your Authorization Account number be sent to be booked on "Freight To Collect" basis, together with complete acceptable physical address and phone or mobile number.

Domestic orders are dispatched to any destination in **India** by Road Transport, Gati or TCI or ARC or Jaipur Golden on COD basis.

Shipping Time, generally within 3-5 weeks or as stipulated in quote and accepted order.

Organization Structure

Industrial supply manufacturing company having dedicated team of 63 skilled work forces includes Rubber Technologist, Chemists, Engineers and Skilled Labor's, Management Experts viz., Plant Manager, Quality Control Inspector, Lab In charge and I.T specialists. Majority of operations are automatic.

Production Capacity of Hydraulic Flow Products

	<u>Approximate Qty. per annum</u>
1. High Pressure Ball Valve, Stainless steel Needle Valve, gate valve, Butterfly valve, Globe valve , plug valve , Non Return Valve http://www.rubber-steel-industrial-products.com/control-valve-manufacturer/index.htm	50,000 nos.
2. Camlock Coupling and Fittings SS304 and SS316,Quick Air Coupling Single Check Valve, Hydraulic Quick Release Coupling Double Check Valve http://www.rubber-steel-industrial-products.com/check-valve-manufacturer/index.htm	75,000 nos.
3. Armoured Suction Hose. Delivery rubber hose, Flexible Fuel Hose, Fire Fighting Hose and Reel, Stainless Steel Corrugated Metal Hose, Braided Industrial Hoses http://www.rubber-steel-industrial-products.com/rubber-hose-manufacturer/index.htm http://www.rubber-steel-industrial-products.com/flexible-hose-manufacturer/index.htm http://www.rubber-steel-industrial-products.com/hydraulic-hose-manufacturer/index.htm	1,25,000 mts.

Visakhapatnam Steel Plant (721354), NALCO (3072), Subhash Projects (EM-10,18), Heavy Engg. Corp.(6003), Bokaro Steel (72621), Salem Steel(000155), Gujarat State Road(000118), ACC (944), Army Base(512/ABW-LP/76), NTPC(H8267), etc.

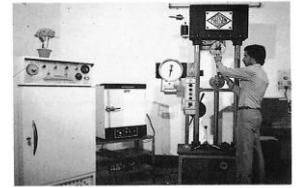
* Price List & terms on specific enquiry please.

Quality Assurance Plan

HIC Steel Piping Valves and Hose Quick Couplings Testing Parameters

Quality piping valves plus hose couplings manufactured in ISO 9001 certified HIC factories in India with Production Supervisors conducting routine pre-manufacture checks and post-manufacture tests as to :

- 100% Physical checks with respect to dimensions,
- 100% Chemical checks w.r.t. MOC,
- 20% Random physical tests



Tensile Strength & Elongation Testing Machine

Test Certificate & Warranty

HIC Manufacturer's Lab TC of Hydraulic Valve, Camlock, QRC Supplied

Quality hydraulic valves couplings conforming IS 9884, British BS 6755, API 598, ISO 683, DIN-ISO 1219 for ball valves, ISO 228 T1 for pipe threads, BS 5351, German DIN 2826 for quick release coupling, ISO 7241 for interchange hose coupling, DIN 2838, US Military MIL-C-27487 for camlock coupling, ISO 10423 for needle valves, ISO 7121 for globe valve, ISO 5752 for butterfly valve, ISO 5996 for gate valves-HIC manufacturers modern in-house Lab Test Certificate issued with respect to Nominal Bore size MM or INCH, Hydraulic Pressure Test for 120 seconds duration at room temperature of valve Body or Disc and Seat BAR or PSI, Pneumatic Air Pressure Test of valve Body and Seat BAR, Material of construction Chemical Capacity Analysis of Body or Disc, Side Piece, Ball, Seal, Seat, Stem, besides other tests.

Warranty of one year against any manufacturing defects in HIC manufactured **pipe fitted high pressure valve and hydraulic hose coupling** product.

Third Party Inspections by DNV, RITES, EIL, QSS, SGS, also arranged in HIC's valves factory or by Government Approved Laboratory, Test Certificate issue fee charges directly reimbursed by buyers.

Legalization by Embassy or Chambers of Commerce **Attestation** of export shipping Invoice and other documents also provided towards export of Indian Origin control valves and stainless steel coupling products if demanded on actual fee remitted by importers directly to HIC and or cost added up in Invoice.

Manufacturing & Testing Equipments



Belt Press

Exporters-Importers of industrial products having latest manufacturing machinery and advanced testing equipments.

Steel Products Production Machinery



Belting Calander

Banbury Rubber Mixer, Dispersion Kneader(s), Mixing Mill(s) 2 Roll, Calander Machine (3Roll), Jointing Machine, Rubber Bale Cutter, Hydraulic Presses (2 daylight), Hydraulic Press (single daylight), Hydraulic Finishing Press, Belt Endlessing M.C.(Vulcaniser), Sundry Machines viz. Lathes, Shaper, Generator sets, Hydraulic Jacks, etc.

Steel Products Quality Testing Apparatus as per ISO :



Manufacturing Hydraulic Press

B.O.D. Incubator (seasoning chamber), Hot Air Ageing Oven, Physical Balance, Tensile Testing Machines, Abrasion Tester(as per DIN), Drum Friction Tester (as per Canadian stds), Scott Flex Tester (as per railways), Dumbbell Dies, Yarn Testing Machine, etc. **Calibrated** periodically. Indigenous technology with latest technical Indian knows how, however, no collaboration made so far.

Quality Control

It is in between process checks that are strongly checked & lodged in register to ensure finished rubber product meeting quality standards.

Test Certificate (TC) of our Lab, wherever, applicable, is **forwarded** along with the supply.



Shut-off Leak Free.

Rust-Proof.

Positive Thru-Flow.

Steel Control Valves & Camlock Quick Couplings

TRUSTED BY MACHINERY OEMs OF OIL REFINERY, FIRE SAFETY, PAPER, CHEMICALS, GAS, DOCKYARD SINCE 1988

www.hic3wayvalves-iran.com | www.camlockquickcoupling.com | www.hiccheckvalves-africa.com

HIC International Co Inc

D-136, Shankar Road

New Delhi 110060 India | Asia

Phone: + 91 (011) 2874 5120, 6547 2400, 3296 1400

Fax: 009111 28742791

E-mail: universal@hic-india.com, belts@universaldelhi.org

Contact Person: Mr Anil Gupta - President, Ms Priyum - Exports Head



HIC India Headquarters

