

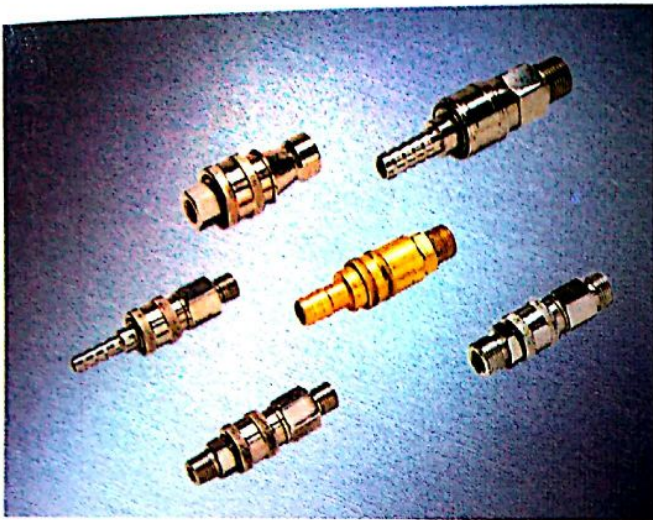


PHADTARE INDUSTRIES

HIGH PRESSURE VALVES & FITTINGS



"QUALITY IS ALWAYS THE RESULT OF AN INTELLIGENT EFFORTS"



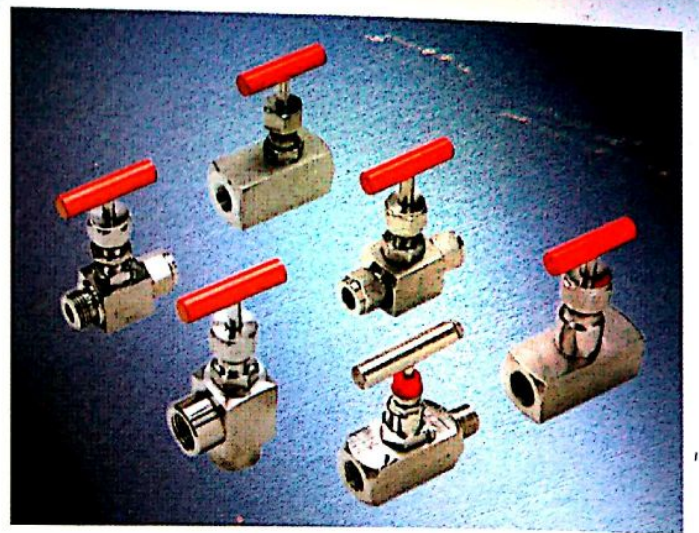
Size Range : 1/8" to 4"

QUICK RELEASE COUPLINGS

- Types**
- a) Single Check Valve (SC) :
Valved coupler & Plain adaptor.
 - b) Double Check Valve (DC) :
Valved coupler & valved adaptor.
 - c) Straight Through (ST) :
Plain coupler & adaptor.
- Applications** : Compressed Air, Gases, Oil, Chemicals, Fluids, etc.

MATERIAL OF CONSTRUCTION:

Body	: S.S, Brass, Carbon Steel
Ball	: S.S
Sealing	: Viton, PTFE
Spring	: S.S
Temperature	: -20° to 180° C
Working Pressure	: Up to 6000 psig
End Connections	: Screwed Female/Male, Hose & Tube Ends.



Size Range : 1/8" to 2"

NEEDLE VALVES

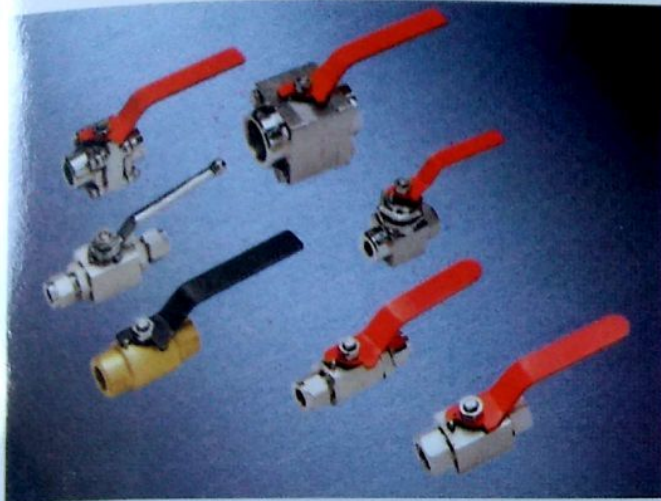
- Types** : Screwed, Integral, Union & 2 valves.
- Applications** : Hydraulic systems, Oxygen service, Instrumentation sampling systems, Test stands, High temp. to 700° F, Cooling oil lines.

MATERIALS OF CONSTRUCTION:

Body (With Integral Seat)	: S.S, Brass, Carbon Steel, Monel.
Stem	: S.S 316
Gland Packing	: PTFE, Grafoil.
Temperature	: -45° to 250° C
Working Pressure	: Up to 10,000 psig
Orifice Dia	: 1/8" (3mm) to 1/2" (12.7mm)
Handle	: Carbon Steel, Aluminium or S.S
End Connections	: Screwed Female / Male, Tube End, Socketweld, Buttweld & Flangend.

FEATURES:

Body	: 1 Piece, 2 piece union bonet type with lapped seat.
Stem	: Choice of replaceable stem tip, V point, regulating or blunt stems for exact flow requirements.
Needle tip	: Precision ground, lapped tip for perfect metal to metal sealing.
Lubrication	: Anti-seize lubricants on stem threads for easy operations & long life.
Gland	: Adjustable
Testing	: Each valve is 100% tested to ensure leak tightness at Seat Shell, & Gland.



Size Range : 1/8" to 4"

BALL VALVES

- Types :**
- 1) 2 way general purpose
 - 2) 1pc, 2pc, & 3pc design
 - 3) 3 way, 4 way & Panel Mounted
 - 4) Jacketed Fire Safe Design

Applications : High pressure instrument lines, on/off shore, Pneumatic system, Refineries, Pilot plants, Analyzer labs, Gas sampling Lines etc.

MATERIALS OF CONSTRUCTION:

Ball	: S.S316
Body	: S.S, Brass, Carbon steel, Monel.
Seats	: PTFE
Gland Packing	: S.S & PTFE
Inlet Gasket	: Viton & PTFE
Handle	: M.S colour coded & S.S.
Temperature	: -30° to 200° C
Working Pressure	: Up to 6000 psig
End Connections	: Screwed Female / Male, Tube Fittings, Socketweld, Buttweld & Flangend.

FEATURES:

- 1) Handle position indicates flow direction.
- 2) Straight through flow for minimum pressure drop.
- 3) Microfinished ball for positive sealing.
- 4) 90° actuation.
- 5) Low operating torques.
- 6) Two way installation.
- 7) Viton O-rings or teflon washers for increased corrosion resistance.
- 8) Each valve is 100% tested, to ensure leak-tightness at Seat, Shell & Gland.



Size Range : 1/8" to 4"

CHECK VALVES

Types : Globe type lift check valves.

Applications : Locks pressure in hydraulic cylinders. Prevents reversed flow to protect solenoids, regulators & pumps. Vent valve to purge a system. Low pressure IN-LINE Relief valve.

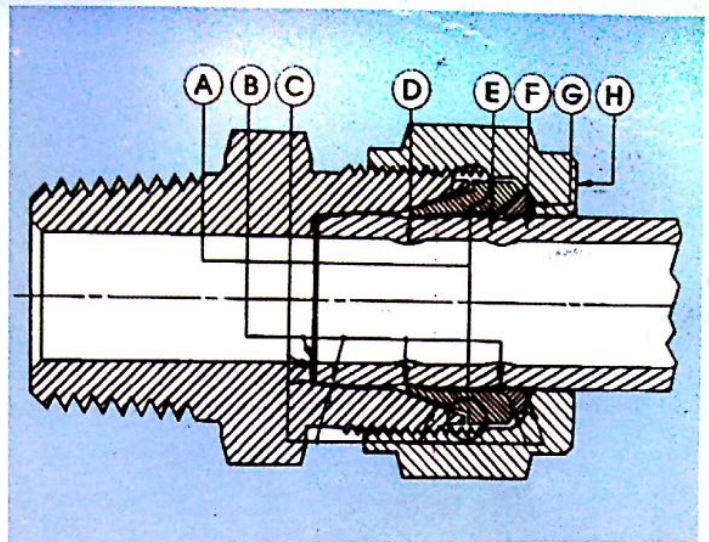
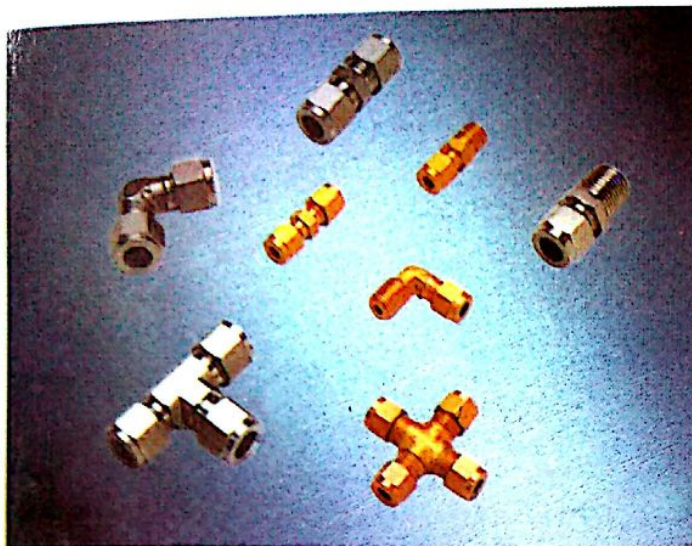
MATERIAL OF CONSTRUCTION:

Body	: S.S, Brass, Carbon Steel, Aluminium
Body Inlets	: S.S
'O' Ring	: Viton
Temperature	: -20° to 180° C
Working Pressure	: Nominal cracking pressure 5 psig & more. Max. back up pressure 6,000 psig.
End Connections	: Screwed Female/Male, Tube ends, Socketweld, Buttweld & Flangend.

FEATURES:

- 1) Lapped seat provides leak-tight shut-off.
- 2) Internal design guides flow around springs & not through coils, when valve is open.
- 3) Effective leak-tight closure with minimum flow resistance.
- 4) Choice of various cracking pressure.
- 5) 2 piece body permits interchangeability of end connections.

Note: Valves which are not actuated for a long period of time may initially open at higher than subsequent pressure.



TUBE FITTINGS

PI- Lock Tube fittings are carefully designed and manufactured to provide a leak-proof, torque free, seal at all tubing connections & eliminate costly, hazardous leaks in process & instrumentation tubings.

Types : Tube fittings available in four major types.

- a) Union : Male/Female connectors
- b) Elbows : Reducing connectors
- c) Tees : Combination End connections
- d) Cross : Bulk Head Union

Applications : Low & high pressure applications.

Material : S.S, Brass, Carbon steel

Tube O.D Size : 1/16"(2mm) to 1" (25mm)

Working Pressure : 10,000 to 5,000 psig for male threads.
6, 000 to 3,000 psig for female threads.

Temperature : -175° to 400° C depending on material.

End Connections : Screwed Male/Female, Tube ends.

FEATURES:

- a) No over tightening.
- b) Support among all components & full face contact.
- c) Vibration control due to full support.
- d) Reduction of tubing I.D. minimum.
- e) No torque transmitted to tubing.
- f) On make up, no rotation of tubing.
- g) Rear Ferrule locking action.
- h) Low torque for assembly.

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