

Ball Valve

High purity, high pressure Ball valve

FEATURES:

- Panel mountable
- Made of 316L stainless steel
- Micro- Finished Floating Ball ensures Leak Proof Shut Off



TECHNICAL DATA:

Working pressure	Max. 206 bar (3000 psi)
Sizes	1/4" OD to 1" OD (Optional Screwed end available)
Oxygen use	Suitable

MATERIALS:

1. Handle	Nylon
2. Handle set screw	Steel Chrome-Plated
3. Stem	SS316/SS316L
4. Packing Bolt	SS316/SS316L
5. Gland packing	TFM 1600
6. Stem O - Ring	Viton
7. Panel Nut	SS304
8. Body	SS316/SS316L
9. Ball	SS316/SS316L
10. Seat	TFM 1600
11. Body O-Ring	Viton
12. End Cap	SS316/SS316L

Check Valve

High purity, high pressure Check valve

FEATURES:

- Body material in stainless Steel SS316/316L Cold Drawn bar
- Inline Check Valve Stops Reversed Flow in Order to Protect Instrumentation
- Made of 316L stainless steel
- With Viton O-ring
- Variable fixed cracking press springs, range from 1 to 25 psig

TECHNICAL DATA:

Working pressure	Max. 206 bar (3000 psi)
Sizes	1/2" OD, 1/4" OD, 1/4" MNPT, FNPT
Oxygen use	Suitable

MATERIALS:

1. Inlet Body	SS316/316L
2. Outlet Body	SS316/316L
3. Seal ring	Viton
4. Poppet	SS316/316L
5. Spring	SS304



In line Filter

High purity, high pressure Inline filter and T type filter

FEATURES:

- Body material in stainless Steel SS316/316L Cold Drawn bar
- Made of 316L stainless steel
- Nominal pore sizes for sintered element 0.5 μ m, 1 μ m, 5 μ m, 7 μ m.

TECHNICAL DATA:

Working pressure	Max. 206 bar (3000 psi)
Sizes	1/4" OD, 1/4" MNPT, FNPT
Oxygen use	Suitable

MATERIALS:

1. Inlet Body	SS316/316L
2. Outlet Body	SS316/316L
3. Seal ring	Viton
4. Poppet	SS316/316L
5. Spring	SS304



Integral Bonnet Needle Valve

High purity, high pressure needle valve

FEATURES:

- Forged body available with inline and angle pattern
- Panel mountable
- Made of 316L stainless steel



TECHNICAL DATA:

Purity	Up to 6.0
Working pressure	Max. 413 bar (6000 psi)
Flow coefficient	Cv = 0.17
Inlet / outlet ports	1/4" NPTM/BSPM, 1/4" NPTF/BSPF, 1/4" OD,
Oxygen use	Suitable

MATERIALS:



Item	Part Description	Qty.	Material
1	Handle	1	Phenolic Resins
2	Locking Nut	1	SS304
3	Stem	1	SS316/316L
4	Packing Nut	1	SS316/316L
5	Upper Gland	1	SS316/316L
6	Upper Packing	1	TFM1600
7	Lower Packing	1	TFM1600
8	Lower Gland	1	SS316/316L
9	Panel Nut	1	SS304
10	Body	1	SS316/316
11	Stem Tip	1	SS630

Proportional Relief Valve

High purity, high Proportional safety relief valve

FEATURES:

- Body material is stainless Steel SS316/316L
- Spring adjusts to provide desired set pressure
- Colour coded springs available for desired set pressures
- All relief valves can be factory pre-set according to customer specifications.
- The effect of system back pressure is minimized by the design of these valves

TECHNICAL DATA:

Set pressure range	3.4 to 200 bar
Sizes	1/2" OD, 1/4" OD, 1/4" MNPT, FNPT
Oxygen use	Suitable

MATERIALS:

1. Body	SS316/316L
2. Gasket	PTFE
3. Seat	SS316
4. Bonded disc	316 Bonded with Fluorocarbon FKM
5. Stem	SS316
6. O - Ring	Fluorocarbon EKM
7. O - Ring	Fluorocarbon FKM
8. Backup ring	PTFE
9. Bonnet	SS316
10. Spring support	SS316
11. Lock nut	SS316
12. Cap	Polypropylene
13. Label	Polyester
14. Spring	SS302
15. Plug	SS316



SS316 Tube Compression Fittings

FEATURES:

- Body material in stainless Steel SS316/316L
- Double ferrule fittings provide metal to metal seal connections, non-elastomeric seals for leak free
- ALTOKTM tube fittings are designed to have a maximum allowable working pressure that is higher than the any of the tubing
- Available in sizes from 1/4" OD to 1" OD
- In ALTOKTM Nut threads silver is coated to reduce the galling

MALE CONNECTORS

1. Body	SS316
2. Size	1/4" OD to 1" OD
3. Thread	Male NPT & BSP
4. Type	Double ferrule compression system.
5. Raw material	Hex Bar - ASTM A276



FEMALE CONNECTORS

1. Body	SS316
2. Size	1/4" OD to 1" OD
3. Thread	Female NPT & BSP
4. Type	Double ferrule compression system.
5. Raw material	Hex Bar - ASTM A276



UNION

1. Body	SS316
2. Size	1/4" OD to 1" OD
3. Type	Double ferrule compression system.
4. Raw material	Hex Bar - ASTM A276



REDUCING UNION

1. Body	SS316
2. Size	1/4" OD to 1" OD
3. Type	Double ferrule compression system.
4. Raw material	Hex Bar - ASTM A276



BULK HEAD UNIONS

1. Body	SS316
2. Size	1/4" OD to 1" OD
3. Type	Double ferrule compression system.
4. Raw material	Hex Bar - ASTM A276



ENDCAPS

1. Body	SS316
2. Size	1/4" OD to 1" OD
3. Thread	Female NPT & BSP (Optional)
4. Type	Double ferrule compression system.
5. Raw material	Hex Bar - ASTM A276



EQUAL TEE

1. Body	SS316
2. Size	1/4" OD to 1" OD
3. Type	Double ferrule compression system.
4. Raw material	Forged steel - ASTM A182



REDUCING TEE

1. Body	SS316
2. Size	1/4" OD to 1" OD
3. Type	Double ferrule compression system.
4. Raw material	Forged steel - ASTM A182



ELBOW

1. Body	SS316
2. Size	1/2" OD to 1" OD
3. Thread	Female NPT & BSP (Optional)
4. Type	Double ferrule compression system.
5. Raw material	Forged steel - ASTM A182



SS316 Tube Orbital weld Fittings

FEATURES:

- Body material in stainless Steel SS316/316L
- Butt weld fittings are of high precision machining component
- Available in sizes from 1/4" OD to 1" OD
- Straight parts are made of cold-rolled bar and special-shaped parts are made of forgings.

EQUAL TEE

1. Body	SS316
2. Size	1/4" OD to 1" OD
3. Type	Butt weld type / Orbital weld type
4. Raw material	Forged steel - ASTM A182



REDUCING TEE

1. Body	SS316
2. Size	1/4" OD to 1" OD
3. Type	Butt weld type / Orbital weld type
4. Raw material	Forged steel - ASTM A182



ELBOW

1. Body	SS316
2. Size	1/2" OD to 1" OD
3. Thread	Female NPT & BSP (Optional)
4. Type	Butt weld type / Orbital weld type
5. Raw material	Forged steel - ASTM A182



REDUCING UNION

1. Body	SS316
2. Size	1/4" OD to 1" OD
3. Type	Butt weld type / Orbital weld type
4. Raw material	Hex Bar - ASTM A276

