Instrumentation Solutions

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Tube Fittings

1. Body materials: 316 SS, 316L SS, 304 SS, 321 SS, Duplex 2205, titanium, alloy 400, alloy 625 and alloy C-276 .
2. Sizes range from 1/16" to 1 1/2" and 2 mm to 38 mm.
3. Precision machined components ensure perfect deformation of the ferrules and tubing.
4. Fittings are easy to disconnect and retighten.
5. Hardened threads with smooth surface finish avoid galling and help to extend the fitting service life.
6. Female nut threads are silver-plated to reduce the friction against the body threads.
7. Radius junction design with elbows provides smooth flow path.
8. Every fitting is stamped with size, material, and heat code.

Pipe Fittings

1. Body materials: 316 SS, 316L SS, 304 SS, 321 SS, Duplex 2205, titanium, alloy 400, alloy 625 and alloy C-276 .
2. Sizes range from 1/16" to 2" and M6 to M27.
3. End connections with NPT, ISO/BSP, SAE, and metric
4. Hardened threads and smoothed surface finishes extend fitting life and prevent sticking of the matching threads.
5. Radius junction design with elbows provides smooth flow path.
6. Every fitting is stamped with size, material, and heat code.

Weld Fittings

1. Body materials: 316 SS, 316L SS, 304 SS, 321 SS, Duplex 2205, titanium, alloy 400, alloy 625 and alloy C-276 .
2. Sizes range from 1/8" to 2" and 6 mm to 38 mm.
3. Maximum working temperature is 1000°F (538°C)
4. Radius junction design with elbows provides smooth flow path.
5. Every fitting is stamped with size, material, and heat code.

Quick-connects

1. Body materials: 316 SS, 316L SS, 304 SS, 321 SS, Duplex 2205, titanium, alloy 400, alloy 625 and alloy C-276 .

QC Series

1. Maximum working pressure: 3000 psig (207 bar)
2. Working temperatures:-10°F to 400°F (-23°C to 204°C) with Fluorocarbon FKM seal
   -10°F to 250°F (-23°C to 121°C) with Buna N seal
3. End connections:1/8" to 1/2" thread
   1/8" to 1/2" and 6 mm to 12 mm tube fitting
   1/4" to 1/2" hose connectors

QV Series

1. Maximum working pressure: 2000 psig (137 bar)
2. Working temperatures:-10°F to 400°F (-23°C to 204°C) with Fluorocarbon FKM seal
   -10°F to 250°F (-23°C to 121°C) with Buna N seal
3. End connections:1/8" to 1" female thread

QF Series

1. Maximum working pressure: 6000 psig (414 bar)
2. Working temperatures:-10°F to 400°F (-23°C to 204°C) with Fluorocarbon FKM seal
   -10°F to 250°F (-23°C to 121°C) with Buna N seal
3. End connections:1/8" to 1/2" thread
   1/4" to 1/2" and 6 mm to 12 mm tube fitting

Flared Tube Fittings

1. Body materials: 316 SS, 316L SS, 304 SS, 321 SS, Duplex 2205, titanium, alloy 400, alloy 625 and alloy C-276 .
2. Fittings are designed and manufactured in compliance with SAE J514.
3. Sizes range from 1/8" to 2" and 3 mm to 50 mm.
4. Female nut threads are silver-plated to minimize the friction with body threads.
5. Fittings are easy to disconnect and retighten.
6. Radius junction design with elbows provides smooth flow path.
7. Every fitting is stamped with size, material, and heat code.

Bar Stock Ball Valves

100B Series

1. Body materials: 316 SS, 316L SS, 304 SS, 321 SS, Duplex 2205, titanium, alloy 400, alloy 625 and alloy C-276 .
2. Maximum working pressure: 10000 psig (689 bar)
3. Working temperature: -40°F to 450°F (-40°C to 232°C)
4. End connections:
   1/4" to 1" and 6 mm to 25 mm tube fitting
   1/4 to 1 thread

Trunnion Ball Valves

60B and 60HB Series High Pressure Service

1. Body materials: 316 SS, 316L SS, 304 SS, 321 SS, Duplex 2205, titanium, alloy 400, alloy 625 and alloy C-276 .
2. Maximum working pressure: 10000 psig (689 bar)
3. Working temperature: -0°F to 450°F (-18°C to 232°C)
4. End connections: 1/8 to 1/4 female NPT
   1/4" to 1/2" and 6 mm to 12 mm tube fitting

High Performance Ball Valves

61B Series

1. Body materials: 316 SS, 316L SS, 304 SS, 321 SS, Duplex 2205, titanium, alloy 400, alloy 625 and alloy C-276 .
2. Maximum working pressure: 6000 psig (414 bar)
3. Working temperature: -65°F to 450°F (-54°C to 232°C)
4. End connections:
   1/8" to 3/4" and 3 mm to 20 mm tube fitting
   1/8 to 3/4 thread

One-piece Instrument Ball Valves

30B Series

1. Body materials: 316 SS, 316L SS, 304 SS, 321 SS, Duplex 2205, titanium, alloy 400, alloy 625 and alloy C-276 .
2. Maximum working pressure: 3000 psig (207 bar)
3. Working temperature: -65°F to 300°F (-54°C to 148°C)
4. Flow patterns: 2-way, 3-way, 4-way, 5-way, 6-way and 7-way
5. End connections:
   1/16 to 3/4 female thread
   1/8" to 3/4" and 3 mm to 20 mm tube fitting

3-piece Ball Valves

31B Series

1. Body materials: 316 SS, 316L SS, 304 SS, 321 SS, Duplex 2205, titanium, alloy 400, alloy 625 and alloy C-276 .
2. Maximum working pressure: 3000 psig (207 bar)
3. Working temperature: -20°F to 450°F (-28°C to 232°C)
4. End connections:
   1/8" to 2" thread
   1/8" to 2" pipe butt or socket weld
   1/2" to 2" and 12 mm to 50 mm tube butt or socket weld
   1/2" to 2" and 12 mm to 38 mm tube fitting

Hex Bar Stock Ball Valves

11B Series

1. Body materials: 316 SS, 316L SS, 304 SS, 321 SS, Duplex 2205, titanium, alloy 400, alloy 625 and alloy C-276 .
2. Maximum working pressure: 1000 psig (68.9 bar)
3. Working temperature: -20°F to 450°F (-28°C to 232°C)
4. End connections:
   1/4" to 1" and 6 mm to 25 mm tube fitting
   1/8 to 1 thread

General Utility Needle Valves

60N Series

1. Body materials: 316 SS, 316L SS, 304 SS, 321 SS, Duplex 2205, titanium, alloy 400, alloy 625 and alloy C-276 .
2. Maximum working pressure: 6000 psig (414 bar)
3. Working temperature: -65°F to 1200°F (-54°C to 649°C)
4. End connections:
   1/8" to 1" and M14 to M27 thread
   1/4" to 1" and 6 mm to 25 mm tube fitting
   3/8" to 1" and 10 mm to 28 mm weld

Forged Needle Valves

61N Series

1. Body materials: 316 SS, 316L SS, 304 SS, 321 SS, Duplex 2205, titanium, alloy 400, alloy 625 and alloy C-276 .
2. Maximum working pressure: 6000 psig (414 bar)
3. Working temperature: -65°F to 1200°F (-54°C to 649°C)
4. End connections:
   1/8" to 1" and M14 to M27 thread
   1/4" to 1" and 6 mm to 25 mm tube fitting
   3/8" to 1" and 10 mm to 28 mm weld

Union Bonnet Needle Valves

62N Series and 62HN Series

1. Body materials: 316 SS, 316L SS, 304 SS, 321 SS, Duplex 2205, titanium, alloy 400, alloy 625 and alloy C-276 .
2. Maximum working pressure:62N series: 6000 psig (414 bar)
   62NH series: 10000 psig (689 bar)
3. Working temperature: -65°F to 1200°F (-54°C to 649°C)
4. End connections:
   1/8" to 1" and M14 to M27 thread
   1/4" to 1" and 6 mm to 25 mm tube fitting
   3/8" to 1" and 10 mm to 20 mm weld

Rising Plug Valves

63N Series and 63GN Series

1. Body materials: 316 SS, 316L SS, 304 SS, 321 SS, Duplex 2205, titanium, alloy 400, alloy 625 and alloy C-276 .
2. Maximum working pressure: 6000 psig (414 bar)
3. Working temperature: -20°F to 400°F (-28°C to 204°C)
4. End connections:
   1/8" to 1/2" and M14 to M20 thread
   1/4" to 1/2" and 6 mm to 12 mm tube fitting

High-pressure Needle Valves

100N Series

1. Body materials: 316 SS, 316L SS, 304 SS, 321 SS, Duplex 2205, titanium, alloy 400, alloy 625 and alloy C-276 .
2. Maximum working pressure: 10000 psig (689 bar)
3. Working temperature: -65°F to 1200°F (-54°C to 649°C)
4. End connections:
   1/8" to 1" and M14 to M27 thread
   1/4" to 1" and 6 mm to 25 mm tube fitting
   3/8" to 3/4" and 10 mm to 20 mm weld

Outside Screw and Yoke Globe Pattern Needle Valves

101N Series

1. Body materials: 316 SS, 316L SS, 304 SS, 321 SS, Duplex 2205, titanium, alloy 400, alloy 625 and alloy C-276 .
2. Maximum working pressure: 10000 psig (689 bar)
3. Working temperature: -65°F to 1200°F (-54°C to 649°C)
4. End connections:
   1/4" to 1/2" thread
   1/4" to 1/2" and 6 mm to 12 mm tube fitting
   3/8" to 1/2" and 10 mm to 20 mm weld

Integral-Bonnet Needle Valves

50N Series

1. Body materials: 316 SS, 316L SS, 304 SS, 321 SS, Duplex 2205, titanium, alloy 400, alloy 625 and alloy C-276 .
2. Maximum working pressure: 5000 psig (345 bar)
3. Working temperature: -65°F to 600°F (-54°C to 315°C)
4. End connections:
   1/8" to 3/4" and M14 to M27 thread
   1/4" to 3/4" and 6 mm to 20 mm tube fitting

Nonrotating-stem Needle Valves

30N Series

1. Body materials: 316 SS, 316L SS, 304 SS, 321 SS, Duplex 2205, titanium, alloy 400, alloy 625 and alloy C-276 .
2. Maximum working pressure: 3000 psig (207 bar)
3. Working temperature: -65°F to 450°F (-54°C to 232°C)
4. End connections:
   1/8" to 1/2" and M14 to M20 thread
   1/8" to 1/2" and 3 mm to 12 mm tube fitting

Toggle Valves

03N Series

1. Body materials: 316 SS, 316L SS, 304 SS, 321 SS, Duplex 2205, titanium, alloy 400, alloy 625 and alloy C-276 .
2. Maximum working pressure: 300 psig (20.7 bar)
3. Working temperature: -65°F to 250°F (-54°C to 121°C)
4. End connections:
   1/8" to 1/2" and M14 to M20 thread
   1/8" to 1/2" and 3 mm to 12 mm tube fitting

Bellows-sealed Valves

BU and BS Series

1. Body materials: 316 SS, 316L SS, 304 SS, 321 SS, Duplex 2205, titanium, alloy 400, alloy 625 and alloy C-276 .
2. Maximum working pressure: 2500 psig (172 bar)
3. Working temperature: -20°F to 1200°F (-28°C to 649°C)
4. End connections:
   1/4" to 1" and 6 mm to 25 mm tube fitting
   3/8" to 1" and 10 mm to 25 mm weld

Bleed Valves and Purge Valves

1. Body materials: 316 SS, 316L SS, 304 SS, 321 SS, Duplex 2205, titanium, alloy 400, alloy 625 and alloy C-276 .

BL Series

1. Maximum working pressure: 10000 psig (689 bar)
2. Working temperature: -65°F to 850°F (-54°C to 454°C)
3. End connections:1/8" to 1/2" male thread

PU Series

1. Maximum working pressure: 4000 psig (276 bar)
2. Working temperature: -65°F to 600°F (-54°C to 315°C)
3. End connections:
   1/4" to 1" and 6 mm to 25 mm tube fitting
   1/8" to 1/2" thread)

Plug Valves

PV Series

1. Body materials: 316 SS, 316L SS, 304 SS, 321 SS, Duplex 2205, titanium, alloy 400, alloy 625 and alloy C-276 .
2. Maximum working pressure: 3000 psig (207 bar)
3. Working temperature: -10°F to 400°F (-23°C to 204°C)
4. End connections:
   1/8" to 1/2" and M14 to M20 thread
   1/4" to 1/2" and 6 mm to 12 mm tube fitting

Check Valves

CV, CH, CP, CA, CPA, CL and CW Series

1. Body materials: 316 SS, 316L SS, 304 SS, 321 SS, Duplex 2205, titanium, alloy 400, alloy 625 and alloy C-276 .
2. Maximum working pressure: 6000 psig (414 bar)
3. Working temperature: -65°F to 900°F (-54°C to 482°C)
4. End connections:
   1/8" to 1" and M14 to M27 thread
   1/8" to 1" and 3 mm to 25 mm tube fitting

Metering Valves

1. Body materials: 316 SS, 316L SS, 304 SS, 321 SS, Duplex 2205, t itanium, alloy 400, alloy 625 and alloy C-276 .
2. Maximum working pressure: 5000 psig (345 bar)
3. Working temperature: -65°F to 850°F (-54°C to 454°C)
4. End connections: 1/8" to 1/4" and 3 mm to 8 mm tube fitting
   1/8 to 1/4 NPT

Proportional Relief Valves

RV, RL and RM Series

1. Body materials: 316 SS, 316L SS, 304 SS, 321 SS, Duplex 2205, titanium, alloy 400, alloy 625 and alloy C-276 .
2. Maximum working pressure: 6000 psig (414 bar)
3. Working temperature: -10°F to 400°F (-23°C to 204°C)
4. End connections:
   1/8" to 1/2" thread
   1/4" to 1/2" and 6 mm to 12 mm tube fitting

Filters

FT, FB, F and FW Series

1. Body materials: 316 SS, 316L SS, 304 SS, 321 SS, Duplex 2205, titanium, alloy 400, alloy 625 and alloy C-276 .
2. Maximum working pressure: 6000 psig (414 bar)
3. Working temperature: -20°F to 900°F (-29°C to 482°C)
4. Nominal pore sizes for sintered element: 0.5, 2, 7, 15, 40, 60 and 80 µm
5. Nominal pore sizes for strainer element: 100, 150, 250 and 450 µm
6. End connections: 1/8" to 1/2" thread
   1/4" to 1/2" and 6 mm to 12 mm tube fitting

Excess Flow Valves

EF Series

1. Body materials: 316 SS, 316L SS, 304 SS, 321 SS, Duplex 2205, titanium, alloy 400, alloy 625 and alloy C-276 .
2. Maximum working pressure: 6000 psig (414 bar)
3. Working temperature: -10°F to 400°F (-23°C to 204°C)
4. End connections:
   1/8" to 1/2" thread
   1/4" to 1/2" and 6 mm to 12 mm tube fitting

Air Headers

1. Body materials: 316 SS, 316L SS, 304 SS, 321 SS
2. Maximum working pressure: 1000 psig (68.9 bar)
3. Working temperature: -15°F to 450°F (-26°C to 232°C)

Gauge Valves and Instrument Manifolds

60G, 60PG Series
2-valve, 3-valve and 5-valve Manifold Series

1. Body materials: 316 SS, 316L SS, 304 SS, 321 SS, Duplex 2205, titanium, alloy 400, alloy 625 and alloy C-276 .
2. Maximum working pressure: 6000 psig (414 bar)
3. Working temperature: -65°F to 1200°F (-54°C to 649°C)
4. Flange design meets the requirements of MSS SP 99

Block and Bleed Valves

1. Body materials: 316 SS, 316L SS, 304 SS, 321 SS, Duplex 2205, titanium, alloy 400, alloy 625 and alloy C-276 .
2. Pressure ratings in accordance with ASME B16.5
3. Flanged connections compatible with ASME B16.5

15 Series Tube Fittings

15,000 psi

1. Pressures up to 15,000 psig (1034 bar).
2. Available sizes are 1/4", 3/8",1/2", 9/16" and 3/4".
3. Temperature Rating: -325°F to 800°F (-198°C to 427°C).
4. Fittings are easy to disconnect and retighten.
5. Every fitting is stamped with size, material, and heat code.
6. Radius junction design with elbows provides smooth flow path.
7. Male nut threads are molybdenum disulfide-based lubricant to minimize the friction.
8. Hardened threads and smoothed surface finishes extend fitting life and prevent sticking of the matching threads.

20 Series Tube Fittings

20,000 psi

1. Pressures up to 20,000 psig (1379 bar).
2. Available sizes are 1/4", 3/8", 9/16", 3/4" and 1".
3. Temperature Rating: -325°F to 800°F (-198°C to 427°C).
4. Coned-and-Threaded Connection.
5. Metal-to-metal seal provides perfect leak-tight service from critical vacuum to high pressure.
6. Anti-vibration connection components available.
7. Fittings are easy to disconnect and retighten.
8. 316 stainless steel is standard material. Other materials are available upon request.
9. Every fitting is stamped with size, material, and heat code.

60 Series Tube Fittings

60,000 psi

1. Pressures up to 60,000 psig (4137 bar).
2. Available sizes are 1/4", 3/8", 9/16".
3. Temperature Rating: -325°F to 800°F (-198°C to 427°C).
4. Coned-and-Threaded Connection.
5. Metal-to-metal seal provides perfect leak-tight service from critical vacuum to high pressure.
6. Anti-vibration connection components available.
7. Fittings are easy to disconnect and retighten.
8. Material is high tensile 316 stainless steel.
9. Every fitting is stamped with size, material, and heat code.

Needle Valves

N15 Series----15,000 psig (1034 bar).
N20 Series----20,000 psig (1379 bar).
N30 Series----30,000 psig (2068 bar).
N60 Series----60,000 psig (4137 bar).

1.Non-rotating stem and bar stock body design.
2.Easy to assemble and replace packing.
3.Metal-to-metal seating achieves ideal shut off, longer stem/seat service lifetime for abrasive flow, excellent corrosion resistance and greater durability for repeated on/off cycles.
4.Nylon is the standard packing material, RPTFE glass and Graphite also available.
5.Extend stuffing box valve with of Graphite can be operated to 1200°F (649°C).
6.The material of packing gland and stem sleeve have been selected to achieve reduced handle torque and extended thread cycle life.
7.The material of body is 316 SS, The material of valve stem is 17-4PH SS.
8.Options for Vee or Regulating stem tips.
9.The locking device of packing gland is reliable.
10.Five flow patterns are available.

Ball Valves

15B Series----15,000 psig (1034 bar).
20B Series----20,000 psig (1379 bar).

1.One-piece, trunnion mounted style, ideal for severe duty applications.
2.Two-way and three-way valve configurations.
3.PEEK seats offer excellent resistance to chemicals, heat, and wear/abrasion.
4.Full-port flow path minimizes pressure drop.
5.316 cold worked stainless steel construction.
6.Viton o-rings for operation from 0°F (-17.8°C) to 400°F (204°C).
7.Optional o-rings available for high-temperature applications.
8.Wide selection of tube and pipe end fittings available.
9.Electric and pneumatic actuator options. Please contact the FINELOK for details of actuator options.

Forged Steel Globe Valves

Size: 1/4 ~ 2" (8 ~ 50 mm)
Class: 150 ~ 4500

Specifications

1.Design: ANSI B16.34
2.Testing: ANSI B16.34 and API 598
3.Marking: MSS-SP-25
4.Socket weld ends: ASME B16.11
5.Butt weld ends: ASME B16.25
6.Threaded ends: ASME B1.20.1
7.Flanged: ASME B16.5

Forged Steel Gate Valves

Size: 1/4 ~ 2" (8 ~ 50 mm)
Class: 150 ~ 2500

Specifications

1.Design: ANSI B16.34, API 602
2.Testing: ANSI B16.34 and API 598
3.Marking: MSS-SP-25
4.Socket weld ends: ASME B16.11
5.Butt weld ends: ASME B16.25
6.Threaded ends: ASME B1.20.1
7.Flanged: ASME B16.5

Forged Metal-seated Ball Valves

Size: 1/4 ~ 2" (8 ~ 50 mm)
Class: 150 ~ 2500

1.Working temperature: -20°F to 1500°F (-28°C to 816°C)
2.Seat wear compensation by free floating ball design
3.Hardness over 900HV by advanced HVOF coating technology
4.The ball forced to load into the seat by a high-strength belleville spring
5.Low operating torque
6.Blowout proof stem
7.Positive handle stop
8.Designed according to ASME B16.34, tested according to API 598