



Nexus Fittings Solutions

Precision in Every Connection



Why Choose us?

- Premium Quality
- Competitive Pricing
- Ready Stock
- Fast Delivery
- Technical Support
- PAN India Supply

About us

Engineering Precision. Delivering Reliability.



At Nexus Fittings Solutions, we specialize in the manufacturing and supply of high-performance stainless steel tubes, pneumatic fittings, instrumentation tube fittings, valves, manifolds, and fluid system components designed for critical industrial applications.

Built on the principles of precision engineering, uncompromising quality, and customer-centric innovation, we provide reliable flow control and fluid transfer solutions that meet the demanding requirements of industries including Oil & Gas, Petrochemicals, Pharmaceuticals, Chemical Processing, Food & Beverage, Power Generation, Semiconductor, Marine, and Industrial Automation.

Every product we deliver is manufactured with stringent quality standards to ensure superior performance, leak-free operation, corrosion resistance, and long service life. Our commitment extends beyond supplying products, we strive to become a trusted engineering partner by offering technical expertise, dependable service, and customized solutions that help our customers enhance productivity, safety, and operational efficiency.

Industries Served:



Oil & Gas



Chemical



Petrochemical



Pharmaceutical



Food & Beverage



Power



Water Treatment



OEM & Automation

Our Vision:

To become a globally recognized leader in fluid system and industrial connection solutions by setting new benchmarks in quality, innovation, and engineering excellence.

We aspire to be the preferred partner for industries worldwide by delivering reliable products, sustainable solutions, and exceptional customer value while contributing to safer and more efficient industrial operations.

Our Mission:

To manufacture and deliver world-class stainless steel tubes, pneumatic fittings, instrumentation fittings, valves, and fluid system solutions that consistently exceed customer expectations.

To build enduring relationships based on trust, integrity, transparency, and responsive customer service.

To establish Nexus Fittings Solutions as a symbol of reliability, quality, and engineering excellence across international markets

INHOUSE TEST FACILITIES AT NEXUS

- Hydro Pressure Test up to 20000 psi
- Pneumatic Test up to 2000 psi
- Impulse Testing From 0 to 6000 psi
- Vibration Test
- Vacuum Test
- Temperature Cycling Test
- Rotary Flex Test
- Flexure Fatigue Test
- Tensile Test for Tube Fittings

Nexus Fitting Solutions are Tested & Approved as per ASTM F 1387-99 (2005)
Nexus Valves are tested & approval as Per MSS-SP-99-2016A

AVAILABILITY & APPLICABLE STANDARDS FOR THREADS OFFERED

- American National Pipe Thread (NPT): ANSI B1.20.1
- ISO Parallel Pipe Thread (British Standard Pipe Thread): BS 2779, ISO 228/1, DIN 259, JIS B 0202, IS 2643
- ISO Taper Pipe Thread (British Standard Pipe Taper Thread): BS 21, ISO 7/1, DIN 2999, JIS B0203, IS 554

NEXUS PRODUCT RANGE

- Tube Fittings Compression Type
- Instrument Pipe Fittings
- Needle Valves
- Ball Valves
- Valve Manifolds
- Bleed Plugs
- Check Valves / Non Return Valves
- Safety / Pressure Relief Valves
- Gauge Cocks
- Air Headers / Air Manifolds / Air Distributor
- Condensate Pots / Catch Pots / Seal Pots
- Syphons
- Snubbers
- Quick Release Couplings
- Swivel Adaptors
- Flanges
- Thermowells
- Socket Weld & Screwed Pipe Fittings
- Butt Weld Pipe Fittings
- PTFE / Nylon / PU Tube & Fittings
- Copper Tube (Bare & With PVC Insulation)
- Impulse Tube / Seamless Pipes
- Tube / Pipe Clamps
- Hose & Hose Fittings
- Gate / Globe Valves
- Toggle Valves

ORDERING INFORMATION

HOW TO ORDER TUBE FITTINGS

To Order: Male Connector ½" Tube OD × ½" NPT Male SS316

Example Model No.:
Nexus Model No.: SS - MC - 8 - 8M

SS

Material Grade

Material Grade	MOC (*)
SS 316	SS
SS 316L	SSL
SS 304	S4
SS 304L	S4L
Brass	B
Alloy 400	ML
Alloy 600	INC
Alloy 276	HC
PTFE	T
Carbon Steel	CS

MC

Item Designator

8

8M

Pipe Thread Type & Size

Size (Metric)	MPT (*) Male	FPT (*) Female	PSW (*) For Inch	PBW (*) For Inch
1/16 Inch	1M	1F	-	-
1/8 Inch	2M	2F	25W	2BW
1/4 Inch	4M	4F	45W	4BW
3/8 Inch	6M	6F	65W	6BW
1/2 Inch	8M	8F	85W	8BW
3/4 Inch	12M	12F	125W	12BW
1 Inch	16M	16F	165W	16BW
1-1/4 Inch	20M	20F	205W	20BW
1-1/2 Inch	24M	24F	245W	24BW
2 Inch	32M	32F	325W	32BW

Note: Above are NPT Threads. For BSP add -B and for BSPT add -BT at the end.

Tube OD (Fractional)

Size (Fractional)	TOD (*) For Inch	TPE (*) For Inch
1/16 Inch	1	1 TX
1/8 Inch	2	2 TX
3/16 Inch	3	3 TX
1/4 Inch	4	4 TX
5/16 Inch	5	5 TX
3/8 Inch	6	6 TX
1/2 Inch	8	8 TX
5/8 Inch	10	10 TX
3/4 Inch	12	12 TX
7/8 Inch	14	14 TX
1 Inch	16	16 TX
1-1/4 Inch	20	20 TX
1-1/2 Inch	24	24 TX
2 Inch	32	32 TX

Tube OD (Metric)

Size (Metric)	TOD (*) For MM	TPE (*) For MM
3 MM	3 MM	3 MMTX
4 MM	4 MM	4 MMTX
6 MM	6 MM	6 MMTX
8 MM	8 MM	8 MMTX
10 MM	10 MM	10 MMTX
12 MM	12 MM	12 MMTX
14 MM	14 MM	14 MMTX
15 MM	15 MM	15 MMTX
16 MM	16 MM	16 MMTX
18 MM	18 MM	18 MMTX
20 MM	20 MM	20 MMTX
22 MM	22 MM	22 MMTX
25 MM	25 MM	25 MMTX
28 MM	28 MM	28 MMTX
32 MM	32 MM	32 MMTX
38 MM	38 MM	38 MMTX

Terms used

“*” : Designator Code
 “MM” : Milli Meter
 “TOD” : Tube Outer Diameter
 “TPE” : Tube Plain End
 “MPT” : Male Pipe Thread (NPT)
 “FPT” : Female Pipe Thread (NPT)
 “PSW” : Pipe Socket Weld
 “PBW” : Pipe Butt Weld
 “MOC” : Material Of Construction

General Terms used

“OD” : Outer Diameter Of Tube
 “NPT” : National Pipe Threads
 “BSP” : British Standard Pipe Threads
 “BSPT” : British Standard Taper Threads
 “NACE” : National Association Of Corrosion Engineers
 “SW” : Socket Weld
 “BW” : Butt Weld
 “psi” : Pounds per Square Inch

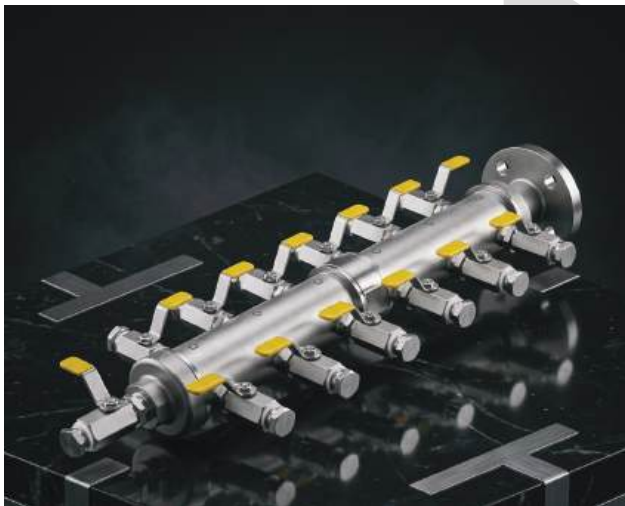
Dust Cap Colour Coding For Needle and Manifold Valves



Product Catagories:

Stainless Steel Tubes:

Stainless steel tube fittings are typically manufactured using two ferrules. One ferrule is placed on the front side of the tubing, and the other is on the back. The two ferrules hold the tubing securely in place and make a seal. The front edge of the ferrule must be hard enough to grip the tubing, while the back edge must be soft enough to allow the tubing to deform plastically. This helps prevent the tubing from coming out of the tube. SS Tube Fittings can endure vacuum conditions and higher pressure vibrations. The fittings are also reusable, so they are easy to assemble.



Instrument Air Header:

Air Headers designed for safe, efficient compressed air distribution in pneumatic and instrumentation systems. Manufactured from stainless steel, carbon steel, brass, or alloy steel, they ensure leak-proof performance, durability, and compliance with ASME, ANSI, and DIN standards. Ideal for oil & gas, power, chemical, and water treatment industries.



Ball Valve:

Ball Valves designed for precise and reliable ON/OFF flow control in instrumentation, gas sampling, pneumatic, and process systems. Machined from solid bar stock, these valves deliver exceptional strength, tight sealing, and I Leak-proof performance under high pressure. Ideal for demanding industrial environments, they are available in multiple end connections and materials to suit various applications.



Double Ferrule Compression Fittings:

Double Ferrule Fittings work on the proven principle of ferrules swaging to the tube when tightened with a spanner. When the nut is tightened the ferrule impresses on the tube to make a leak-proof connection. Available in numerous configurations and sizes, our Double Ferrule Compression Fittings are made up of four parts consisting of a body, front ferrule, back ferrule, and nut. On the same principle we also make wide range of Instrument Valves



Union

The Union Ferrule Fitting provides a secure and reusable connection between two tubes, allowing easy assembly, maintenance, and leak-proof performance even in high-pressure conditions.



Connector

The Cross Ferrule Fitting is used where four tubes intersect. It ensures equal flow distribution, strong sealing, and high-pressure endurance in complex instrumentation setups.



Elbow

Elbows are designed to change the flow direction of fluids and gases, typically at 45° or 90° angles. Manufactured from premium grade ss, they offer excellent resistance to corrosion, high pressure. These fittings ensure leak-proof performance.



Tee

Tee Ferrule Fittings are used for branching fluid or gas flow. Available in both equal and reducing tee designs, they offer flexibility for diverse applications.



Adapter

Adaptors are designed to join components with different thread types, sizes, or connection ends. Engineered for reliable and leak-proof performance, these adaptors provide excellent resistance.



Bulk Head

The Bulkhead Union enables secure tube connections through a panel or wall, ensuring leak-free transitions while maintaining complete system integrity.

Manifolds Valve:

Manifold Valves engineered for high-accuracy differential pressure measurement. These valves integrate isolation, equalization, and venting in one compact unit, reducing the need for multiple fittings. Manufactured with premium materials like stainless steel and exotic alloys, they deliver leak-proof performance, easy installation, and long-term reliability for oil & gas, petrochemical, and process industries.



Needle Valves:

Needle Valves designed for precision flow control in critical applications. Built with stainless steel, carbon steel, and exotic alloys, these valves offer leak-proof performance, excellent throttling capability, and high pressure ratings. Ideal for instrumentation, oil & gas, power generation, and water treatment industries, our needle valves ensure accurate flow regulation with durability and reliability.



Barrel Nipple:

Barrel Nipples are precision threaded fittings used to connect two female-threaded components in piping and instrumentation systems. They are manufactured to provide superior mechanical strength, durability, and excellent resistance to corrosion and chemicals. Available in various lengths and thread standards, SS barrel nipples are ideal for high-pressure applications in process industries, water treatment plants, petrochemical installations, and pneumatic systems.



Our Clients:



IndianOil



TATA POWER

SIEMENS



BHARAT PETROLEUM CORP. LTD.



Reliance

adani
Power



ESSAR
OIL & GAS



FORBES
MARSHALL

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