

SteelAsia Distribution

Bringing the **World** closer to you

Your One-Stop Global Supply Solution Partner



Industrial Supply



PROCESS, PLUMBING & FIRE FIGHTING VALVES

Description

Valves are mechanical devices that generally controls the flow and pressure within a system or process with the function of stopping/starting flow, reducing or increasing flow, controlling the direction of flow, regulating flow or process pressure and relieving pressure of piping system. They are essential components of a piping system that conveys liquids, gases, vapors, slurries etc. Different types of valves have different features and functional capabilities. Some valves are self-operated while others manually or with an actuator or pneumatic or hydraulic is operated.

Size Range

- **Types of Valves:** Check, Gate, Globe, Ball, Butterfly, Plug, Knife Gate, Pressure/Safety Relief, Cryogenic, Plumbing, Anti-slam Check Valves and other special valves
- **Size:** 1/2" to 4" (Forged Valves) / 3" to 24" (Cast Valves) / Special cast valves size above 24" can be requested
- **Materials:** Carbon Steel, Stainless Steel, Duplex (UNS31803), Nickel Alloy, Chrome Alloy, Moly Alloy, Bronze, Brass, Copper and other grades

Grade/Trim/Design Specification/Test Standard

- ✓ A216 (WCA, WCB, WCC), A352 LCB/LCC, ASTM A351 CF8/CF8M, A105, A350 LF1/LF2 and etc
- ✓ API Trim #1 to 18, 13% Cr, Type 410 Stainless Steel, 13% Cr, Type 410 plus Hardfacing, Type 316 Stainless, Monel, Alloy 20, Nace and Full Stellite
- ✓ Pressure: Class 150 to 4500
- ✓ Design Specification: API 600, 602, 603, 6A, 6D and etc
- ✓ Test Standard: API 598, 607, 6FA, ASME B16.34 and etc





STEEL PLATE

Description

Steel plates are one of the many types of steel that can be produced, other types include steel bars, sheets, slabs, rolls, and more. Steel plates are often used for structural and construction applications, pressure vessels, marine and offshore equipment, and military applications.

Sizes Range

- **Thickness:** 1.2mm to 150mm / > 150mm available upon request
- **Size:** 4 x 8 ft, 5 x 20 ft and other custom size available



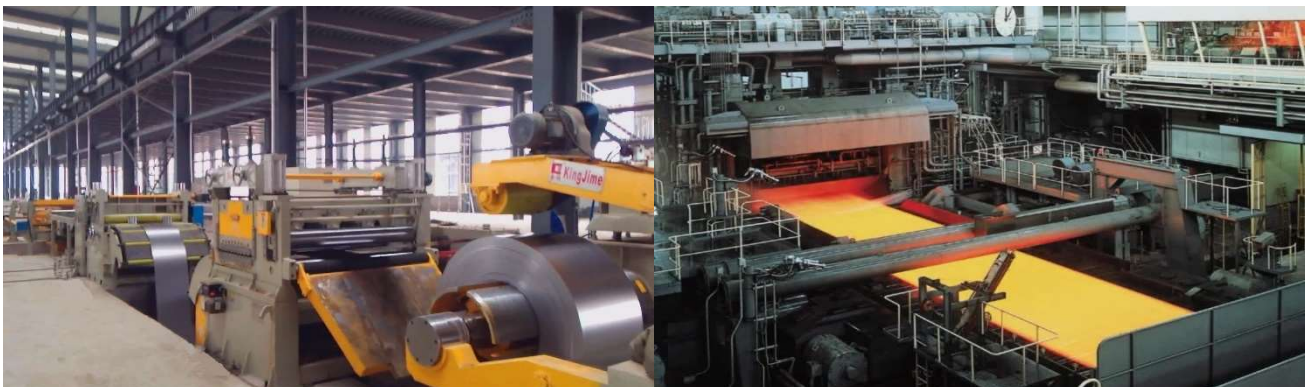
Specification/Grade

• Carbon Steel

- ✓ ASTM A36, A283 (Grade A/B/C/D), A572 (Gr. 42/50/60/65)
- ✓ ASTM A516 (Gr. 55/60/65/70)
- ✓ ASTM A285 (Gr. A/B/C)
- ✓ EN10025 S235, S275, S355 (JR/J0/J2/K2 + N)
- ✓ JIS G3101 SS330, SS400, SS490, SS540
- ✓ JIS G3106 SM300, SM490 (Gr. A/B/C)
- ✓ ABS (Gr. A/B/D/E) + H, API 2W (Gr. 42/50/60)

• Stainless Steel

- ✓ 300 Series : 304, 304L, 304H, 316, 316L, 317L, 321, 321H, etc.
- ✓ Duplex: LDX 2101, Duplex 2205, Duplex 2507, etc.
- ✓ Nickel Alloy: Alloy 20, Alloy 200, Alloy 400, Alloy 600, Alloy 800, etc.
- ✓ Alloy 800HT, Alloy C-276, etc.





STRUCTURAL STEEL

Description

Structural steel is a category of steel construction material that is produced with a particular cross section or shape, and some specified values of strength and chemical composition. The word structural steel includes a broad variety of low carbon and manganese steels that are used in great numbers for civil and marine engineering applications. Structural steels are manufactured in section and plate shapes and are normally used in bridges, buildings, ships, and pipelines.

Types of Structural Steel

- Angle Bar (Equal / Unequal)
- Universal Beam / Column
- Channel / Tapered / Parallel Flange
- Lip Channel / C & Z Purlin
- Hollow Section (Square / Rectangle / Circular)
- Bar (Flat / Round / Square)
- Sheet Pile
- Structural Tee



Specification/Grade

• Long Products

- ✓ BS4360 43A / 50B
- ✓ AS3679 (250 / 300 / 350)
- ✓ ASTM A36, A283 (Grade A/B/C/D), A572 (Grade 42/50/60/65), ASTM A516 (Grade 55/60/65/70)
- ✓ EN10025 S235, S275, S355 (JR/J0/J2/K2 + N)
- ✓ JIS G3101 SS330, SS400, SS490, SS540
- ✓ JIS G3106 SM300, SM490 (A/B/C)
- ✓ JIS G3136 SN300, SN490 (A/B/C)
- ✓ JIS A 5528 SY295/JIS A 5523 SYW 295
- ✓ S513/IS277/IS10748/IS1079
- ✓ G240 MPA/G340 MPA/G550 MPA, Z120GSM / Z275 GSM & Z180 GSM

• Stainless Steel

- ✓ 300 Series : 304, 304L, 304H, 316, 316L, 317L, 321, 321H, etc.
- ✓ Duplex: LDX 2101, Duplex 2205, Duplex 2507, etc.
- ✓ Nickel Alloy: Alloy 20, Alloy 200, Alloy 400, Alloy 600, Alloy 800, etc.
- ✓ Alloy 800HT, Alloy C-276, etc.

** Hot rolled & laser fused available*



DEFORMED / REINFORCEMENT BAR

Description

Deformed bar, also known as rebar (short for reinforcement bar), is a steel bar or mesh of steel wires used as tension devices in reinforced concrete and reinforced masonry structures to strengthen and hold the concrete in tension. Deformed bar's surface is often patterned to form a better bond with the concrete.

Size Range

- **Size:** 9mm to 50mm
- **Weight:** 0.5kg/m to 15.43kg/m

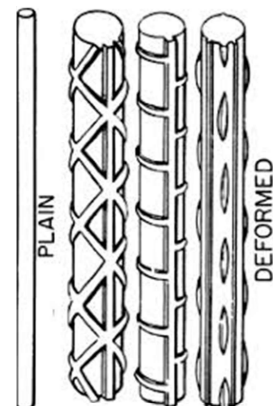
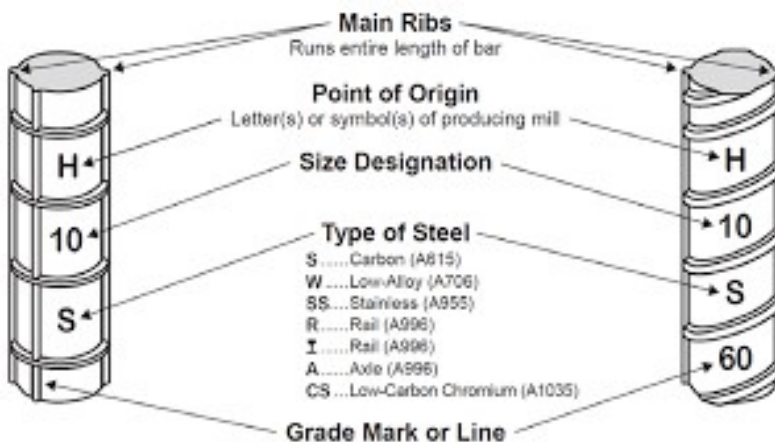


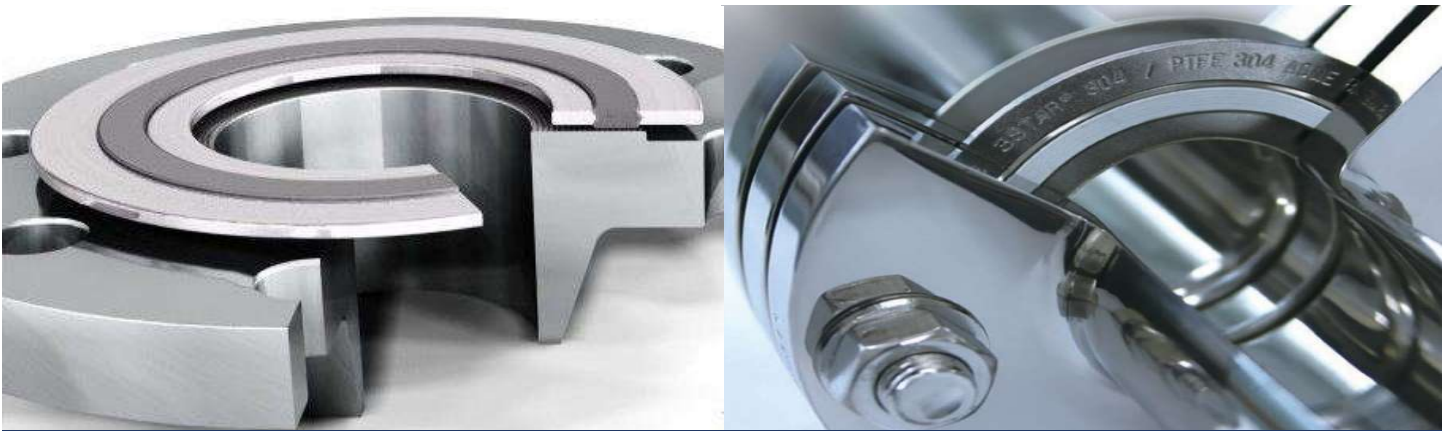
Specification/Grade

- **Medium Tensile Deformed Bar**
 - ✓ SNI BJTS 30, 35 JIS G 3112 SR-30, SD 30A, 30B, SD35 ASTM A 615 (Grade 40), etc.
- **High Tensile Deformed Bar**
 - ✓ SNI BJTS 40, 50 JIS G 3112, SD 40, SD 50 ASTM A 615 (Grade 60), A 706 BS 4449 (Grade 425), (Grade 460), etc.

★ Accessories like rebar cap, connector, etc available ★

DEFORMED BAR	
Nominal Size	Unit Weight
mm	kg/m
9	0.5
10	0.617
12	0.888
13	1.042
14	1.208
16	1.578
18	1.998
19	2.226
20	2.466
22	2.984
24	3.551
25	3.853
26	4.168
28	4.834
29	5.185
30	5.549
32	6.313
35	7.553
36	7.99
38	8.903
40	9.865
50	15.43

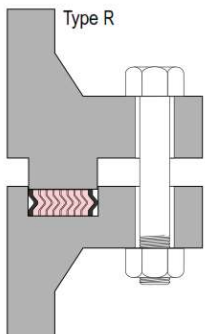




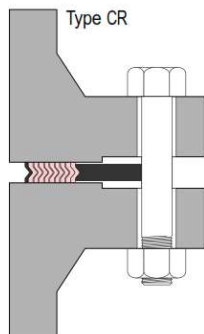
GASKET

Description

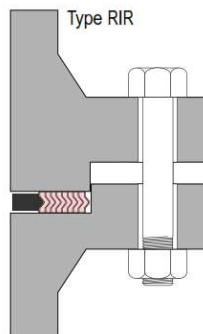
In piping, a Gasket is sealing material placed between connecting flanges to create a static seal, which will maintain the leakage proof sealing in all operating conditions. Different types of gaskets are used to achieve the leak proof sealing between the pipe flange. The primary function of gaskets is to seal the irregularities of each face of the flange so that there will be no leakage of the service fluid from the flange joint.



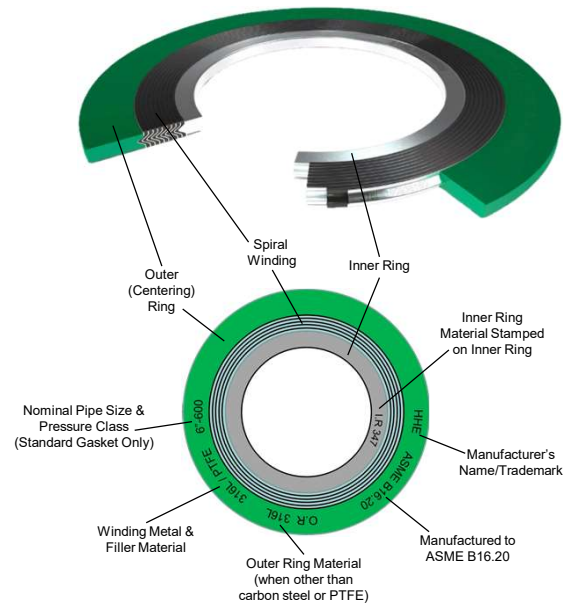
Type R
Wide choice of materials for metal strip and filler. Suitable for high pressures and temperatures. Recommended for flanges with tongue and groove.



Type CR
Solid metal outer ring used as a centering device and compression stop. Used on raised face and flat face flanges.



Type RIR
Solid metal inner ring. Use with high pressures and temperatures. Male to female flanges.



Standard Metal strip materials

1.4301	304
1.4401	316
1.4404	316 L
1.4541	321
1.4571	316 Ti

Special version:

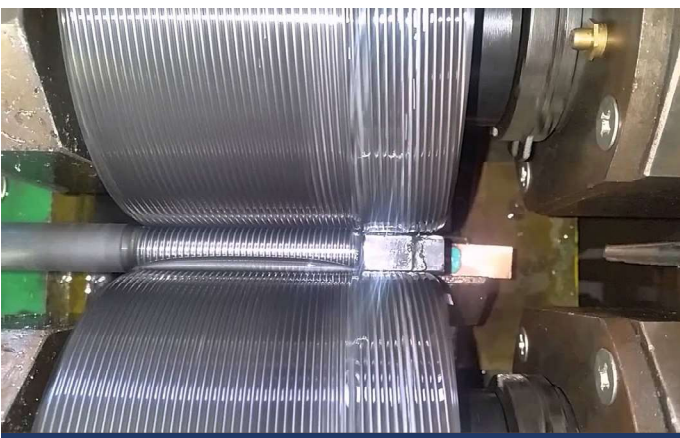
Monel 400*, InConel 600*, InConel 625*, InConel X750*, Nickel 200*, Titanium, Incoloy 800*, Incoloy 825*

Other materials on request

Gasket thicknesses

Nominal thickness	Compressed thickness	Guide ring thickness
3.2 mm	2.3 - 2.5 mm	2 - 2.2 mm
4.5 mm	3.2 - 3.4 mm	3 - 3.3 mm
7.2 mm	5.0 - 5.5 mm	5 - 5.5 mm





BOLTS, NUTS & WASHERS

Description

Bolts, nuts and washers form part a fastening system where it is associated hardware device that mechanically joins or affixes two or more objects together. In general, fasteners are used to create non-permanent joints; that is, joints that can be removed or dismantled without damaging the joining components. Today, fastener plays a vital role in our day to day life from assembling DIY chair, hanging a picture, putting computer, mobile phone, electrical/electronics appliance and automobile parts together, to even extending to multiple usages in construction, infrastructure, pipeline, marine, aerospace, energy sector and vast manufacturing facilities.

Types of Fastener

- ✓ Bolts and Screws: Hex bolt, HD hex bolt, anchor bolt, T-head bolt, L bolt, J bolt, U-bolt, Eye bolt, Fish bolt, square head bolt, counter sunk nib bolt, coach screw, hex head self drilling screw and etc
- ✓ Nuts: Hex nut, HD hex nut, flange nut, wing nut, kep nut, push nut, coupling nut, square nut, cap nut, jam nut, cage nut and etc
- ✓ Washers: Flat washer, oversized HD washer, spring washer, tooth washer, overlap washer, taper washer, contact washer and etc

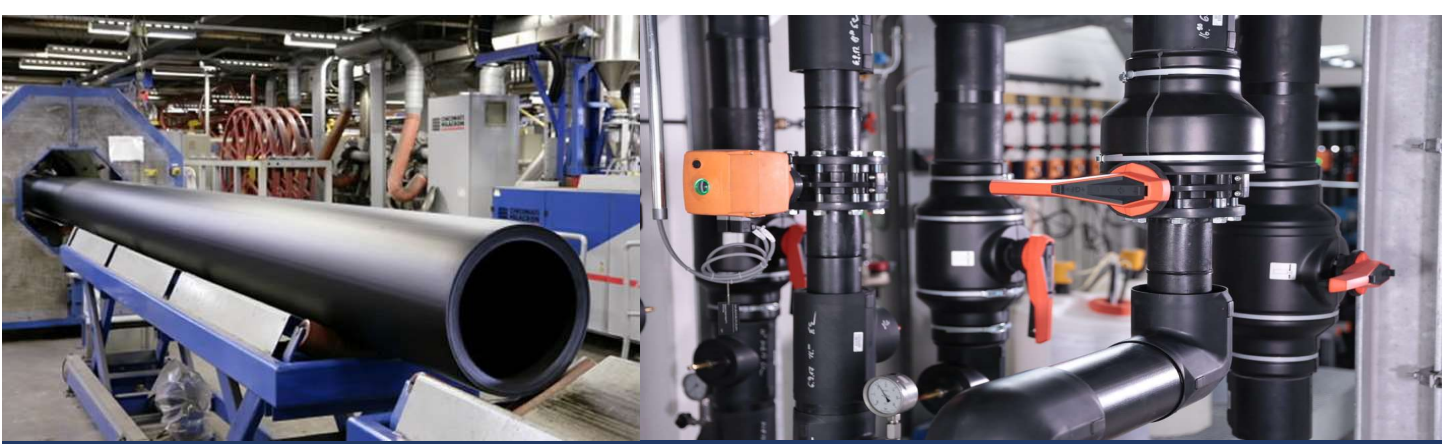
Materials

- ✓ Stainless steel, mild steel, rust/acid resistant steel, low temperature steel, heat resistant steel, non-magnetisable steel, nickel/nickel alloy steel, titanium/titanium alloy steel and etc

Specification/Grades

- ✓ ASTM A193, A194, A307, A325, A394, A490, A563, F436 and etc
- ✓ DIN 125, 604, 912, 931, 933, 934, 960, 976, 7991, 982 and etc
- ✓ ISO 4762, 4014, 4017, 4032, 10642 and etc





PLASTICS PIPING SYSTEM & COMPONENTS

Description

Plastics piping systems are maintenance-free, light and very durable. They thus help reduce repair and overall costs and are suitable for the conveyance of drinking water, wastewater, chemicals, heating fluid and cooling fluids, foodstuffs, ultra-pure liquids, slurries, gases, compressed air, irrigation, plastic pressure pipe systems, and vacuum system applications.

Types of Components

- ✓ Pipes: plain end, socket end & threaded end
- ✓ Fittings: 45/90 deg elbow, tee, 45 deg tee, coupling, reducing coupling, cap, plug, bushing, nipple, adaptor, cross, connector, union, compression coupling/tee, Y-strainer, transparent fittings & etc
- ✓ Flanges: Van stone flange, TS flange, one-piece flange, spigot flange, blind flange & etc
- ✓ Rubber Gaskets: Viton, EDPM, Teflon & NBR
- ✓ Valves: Union ball valve, ball valve/labcock ball valve, foot valve, check valve, butterfly valve, float valve, air relief valve, pressure relief valve, gate valve & etc
 - Connection types: socket, threaded, flanged & universal connection/end
 - Manual, electric & pneumatic actuated
- ✓ Lubricant, cleaning solvent & adhesive cement



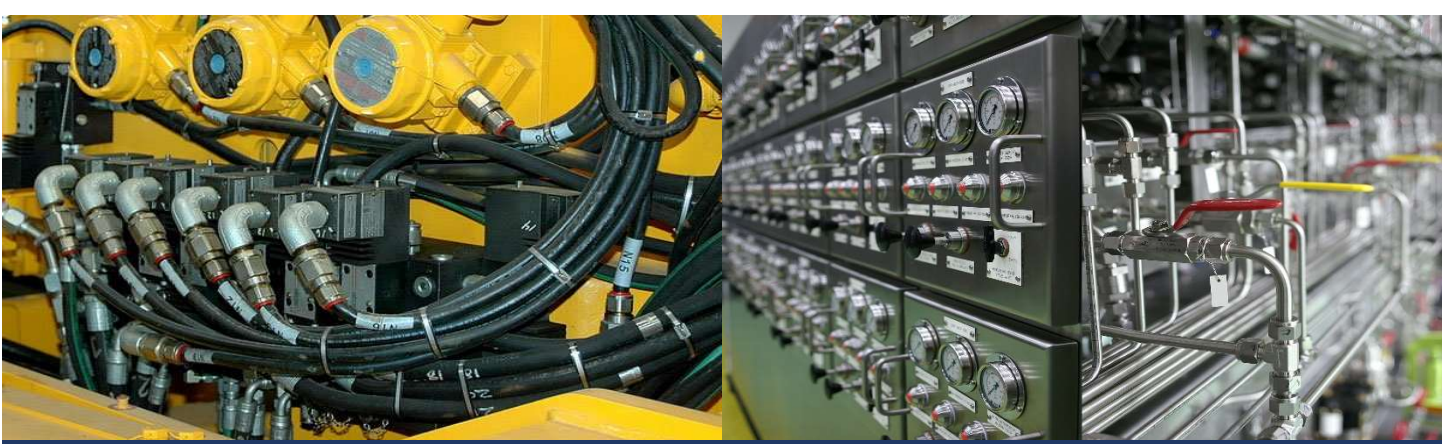
Materials

- ✓ PVC (polyvinyl chloride), uPVC (unplasticized polyvinyl chloride), CPVC (post chlorinated polyvinyl chloride), PP (polypropylene), PE (polyethylene) & etc

Specification/Grades

- ✓ ASTM D1784, D4101, D2665, D3311, D2466, D2467, D2846, D2855, F1498, F1970, ANSI/NSF 14, ASME/ANSI B16.5,
- ✓ JIS K6742, JIS K6743, JIS K6776, JIS K6777, JIS K6741, JIS K6739, AS38, JIS B2064, JIS B8410, JIS B8414, JIS B2220, JWWA S101 & etc
- ✓ DIN & ISO standards available





INSTRUMENTATION / HYDRAULIC PIPING SYSTEM

Description

Fluid control and instrumentation piping system basically consist of a combination of low (6,000 psi and below), medium (20,000 psi) and high (60,000 psi) pressure fluid components, tubing and hoses to convey fluid and air via hydraulic and pneumatic system to control different types of manufacturing equipment, material handling equipment and many more applications. In subsea application, such pipelines may consist of ultra high pressure compression fittings and valves of 25,000 to 60,000 psi.

Types of Components

- ✓ Tubing: plain end, socket end & threaded end
- ✓ Fittings: Straights, elbows, tees, crosses, caps, plugs, nuts, ferrules chromatograph, column end, pipe nipples, adapter and gaskets, reducing bushing and reducers, couplings, crosses, union ball joint, flanges and etc
- ✓ Valves: Ball valves, check valves, needle valves, block and bleed valves, plug valves, pressure relief valves, manifolds, gauges and etc
- ✓ Connection: NPT, ISO/BP, SAE/MS, AN, weld ends, port connectors, sanitary flanges tube adapters, cone and thread, butt weld, socket weld and etc

Materials

- ✓ Stainless steel, duplex, brass, carbon steel, alloy, Incoloy, Inconel, Monel, Hastelloy and others

Specification/Grades

- ✓ ASME, ANSI, SAE, ISO, JIS and etc





UNDERSLAB VAPOR RETARDERS/BARRIERS

Description

Vapor barrier, normally produced from high tensile polyethylene (PE) sheets, is a high performance, underslab vapor barrier designed to retard moisture migration through concrete slabs and concrete walls to protect your structure from:

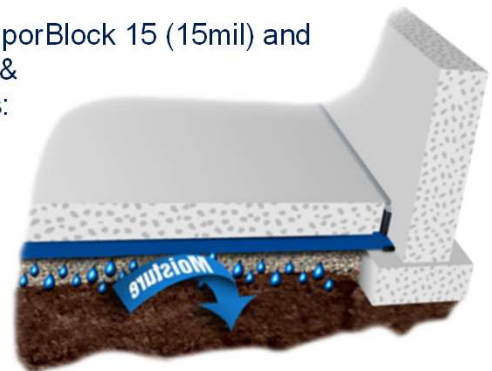
- ✓ MOLD: reduces moisture condensation within a structure, impeding the growth of molds, mildews, and fungi.
- ✓ MOISTURE: protects flooring materials by maintaining moisture levels well below the requirements of ASTM E-1745-11 Class A, B, and C
- ✓ RADON: to protect indoor air quality and occupant health



Types of Vapor Retarders/Barriers

VaporBlock is manufactured to strict conformance specifications under our ISO 9001 Certified Management System to consistently exceed ASTM standards and project expectations. Our accredited lab ensures VaporBlock meets the highest possible quality standards across multiple industries. VaporBlock is supported with independent testing. Results are available upon request, as required under ASTM E-1745-11. VaporBlock is readily available through nation-wide distribution in USA:

- Available in VaporBlock 6 (6mil), VaporBlock 10 (10mil), VaporBlock 15 (15mil) and VaporBlock Plus VBP20 (20mil), Absolute Barrier X-Series & more of higher mils to cater for different application such as:
 - ✓ Agricultural covers and liners
 - ✓ Construction films
 - ✓ Energy
 - ✓ Geo liners and covers
 - ✓ Industrial packaging
- Larger roll sizes equal lower installation costs (available in 12 to 15' x 200' roll)
- Vapor Bond tape (TVB4 has a WVTR of 0.18 perms per ASTM D 833) also available in a 4" x 210' roll. Other tapes for different application are also available





DUCTILE IRON GROOVED FITTINGS

Description

Grooved piping is a system used to join together sections of pipes quickly and securely and is suitable for both dry and wet systems. The grooves are designed to provide a little extra give to a piping system, allowing flexibility in all directions, whether angular, linear, or rotational. This makes grooved piping ideal for fire sprinkler systems and many other applications. This popular type of pipe fitting has become quite standard in the modern world due to the reduced labor and tools costs associated with the ease and speed of installation, in addition to the fact that the connections are incredibly secure. The flexibility gives it an enormous advantage, as it's more robust than rigid methods of joining pipes such as welding, flanged or threaded couplings. The grooved coupling housing (which is the red outer part of the couplings listed in this section) is made from Ductile Iron and entirely encompasses the gasket (the dark-colored seal visible on the inside of the couplings) providing enormous mechanical strength to this self-strained joint. The plated-carbon steel bolts and nuts used in these grooved fittings have been heat-treated, ensuring a connection you can rely on in any system you're creating.

Types of Products

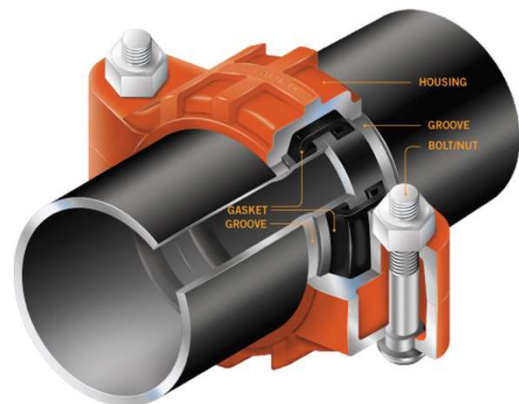
- ✓ Ductile Iron Fittings: Grooved Coupling, Grooved Fittings, Mechanical Tees, Grooved Flanges (Available in threaded and snap-on type)
- ✓ Ductile Iron Grooved Pipes and Grooved/Flanged connect Valves also available

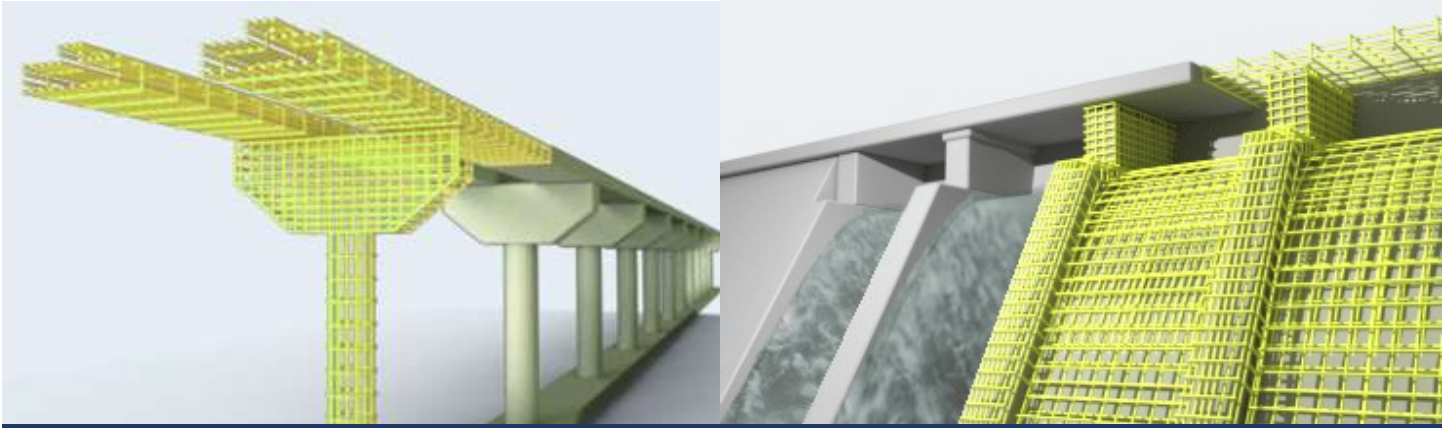
Materials/Specification/Standard

- ✓ Fittings: Ductile iron
- ✓ Gaskets: EDPM, NBR, Silicone rubber, Fluoro rubber and Chloroprene rubber
- ✓ Pressure rating: 175 to 400 psi
- ✓ Product Specification: ANSI, BS/DIN and JIS
- ✓ Approval by UL, FM, Vds and LPCB

Application

- ✓ Commercial / Infrastructure / Industrial Sector
- ✓ Fire protection, HVAC, heating power, portable water, gas, power transmission & distribution, steam, water treatment, wastewater treatment, saltwater disposal, agriculture irrigation, mining, crude oil delivering, construction and installation, transportation and abrasive services





GLASS / FIBRE REINFORCED POLYMER (GRP/FRP)

Description

Glass Reinforced Plastic (GRP), otherwise known as Fibre Reinforced Polymer (FRP), offers developers many advantages over metallic alternatives, especially when compared with steel equivalents. Benefits, such as resistance to corrosion and chemicals, high tensile strength and non-conductive properties, combine to deliver a highly cost effective, durable and sustainable product. GRP or FRP piping system or rebar as an example usually has a longer useful life cycle with low maintenance.

Types of Products

- ✓ Pipes, fittings, flanges, rebars, rock-bolts, shapes & profiles, structural I-beam, angles, channels, hollow sections, flat sheets, toe plates round bars, fasteners, gratings, manholes, fences, above & underground storage tanks and etc



Materials

- ✓ Composites Material:
 - Fibre reinforced polymer (FRP)
 - Glass reinforced polymer (GRP)
 - Glass reinforced vinylester (GRV)
 - Glass reinforced epoxy (GRE)
- ✓ Raw Materials Standard Test Method
 - ASTM D543, D638, D648, D695, D696, D790
- ✓ Finished Product Standard Test Methods
 - ASTM D1599, D2105, D2925
- ✓ Industrial standards:
 - ASTM D 3517, D 3754, D 3262, AWWA C-950, BS 5480, IS 14402 , 12709 and others



Industries

- ✓ Petrochemical and chemical plants
- ✓ Industrial water and wastewater treatment
- ✓ Mining and metal production
- ✓ Power Plants & Flue-gas Desulfurization
- ✓ Pulp and paper mills
- ✓ Construction & Infrastructure (e.g. highways)
- ✓ Offshore platform
- ✓ Underground tunneling
- ✓ And many more





MEDIUM TO ULTRA HIGH PRESSURE HOSES & FITTINGS SOLUTION

Description

A hose is a flexible hollow tube designed to convey fluids from one location to another. The shape of a hose is usually cylindrical (having a circular cross section). Hose design is based on a combination of application and performance. Common factors are size, pressure rating, weight, length, straight hose or coil-hose, and chemical compatibility. Applications mostly use nylon, polyurethane, polyethylene, PVC, or synthetic or natural rubbers, based on the environment and pressure rating needed. Modern hoses can also be manufactured from special grades of polyethylene (LDPE and especially LLDPE), PTFE (Teflon), stainless steel and other metals.

Types of Products

- ✓ Medium to ultra high-pressure hoses (spiral steel reinforcement/braided), ferrules, inserts, steel rings, hose protectors, catch rings, collars, adaptors and etc.

Specifications

- ✓ Hose ID Size: DN2 (5/64") to DN50 (2")
- ✓ Pressure rating: 100 bar up to 4000 bar
- ✓ Temperature rating: -60 deg to +100 deg C
- ✓ Complied to API, ISO, ANSI, DIN, SAE & EN standards

Materials

- ✓ Hoses - Thermoplastic (polyester, polyamide, polytetrafluoroethylene, Polyurethane, Polyoxymethylene and etc) and PTFE
- ✓ Accessories (ferrules, inserts, steel rings, hose protectors, catch rings, collars, adaptors and etc) - Stainless Steel and Carbon steel

Applications

- ✓ Thermoplastic hose and fittings solution used in a wide variety of high-pressure hydraulic fluid power applications such as general hydraulic systems for lift-trucks, aerial platforms, cranes, torque tensioning devices, rescue tools and off-shore equipment, including non-conductive variants
- ✓ PTFE hose and fittings solution used in a wide variety of high-pressure sewer jetting, lubrication & greasing equipment, CNG re-fuelling systems, gas and water supply, paint spray and aggressive chemicals applicators, air breathing cylinder re-filling and many more.



SteelAsia Distribution

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