METAL-LINK

STEEL & ENGINEERING PVT.LTD

ISO 9001 : 2015 CERTIFIED CO.

(Excellence in Top Quality Steel Product's)

Stainless Steel | Alloy Steel

Carbon Steel | Mild Steel

Duplex Steel | Hastelloy

Inconel | Monel



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Company Profile



Metal-Link Steel Engineering Pvt Ltd. was founded, it has been our mission to not only manufacture buttweld fittings, long radius (3D, 5D, Customized) bends and large diameter welded 2 Halves Pipe Fittings but also provide complete piping package solutions to our customers.

By flexibility, skill, experience and dedication to our work as well as long-standing relationships with leading manufacturers for all piping related products, we have become over the years a well-known and leading supplier to EPC and End users across the globe.

We have also become a ONE STOP SHOP for reliable Indian origin Piping Supplies for various stockists and traders around the world. Hard-to-find items, short delivery times, rare material grades and similar tasks are just as much our daily business as standard items from mass production. We find solutions for your individual requirements.

We have our own in-house inspection and commissioning staff enabling us to satisfy each customer's individual logistical requirements.

Quality Policy

Quality is our mission, the quality policy is our main tool in achieving it.
Utmost Satisfaction of client's expectation.
Innovative, Cost and time effective services
Consistent and Continuous quality improvement
Fulfillments of defined quality objective targets
Develop the organization as an International for excellence
Continuous evaluation of market to explore challenging areas of operation

The group is determined to improve productivity and focus continuously on and people



QUALITY OF OUR PRODUCT WILL SPEAK QUALITY OF OUR RELATION

Testing Facility Avaiable

- Chemical Analysis
- Mechanical Tests
- Metallography Test
- Hydrostatic
- Corrosion Test
- Ultrasonic Test
- Radigraphy
- Miscellaneous Test

E-mail : sales@mlsepl.com / metallinkengineering@gmail.com

Visit us at : www.mlsepl.com



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BUTT WELDING FITTINGS



90° Elbow | 45° Elbow | U Bend | Cap | Long Stubend | Tee | Con. Reducer | Ecc. Reducer | Short Stubend

FORGED / / SOCKET WELD / SCREWED FITTINGS



90° Elbow | Tee | 45° Elbow | Cross Tee | Half / Full Coupling BSP/NPT

SCREWED FITTINGS BSP / NPT



Union | Plug Nipple | Barrel Nipple | Hose Nipple | Coupling | Hex Nipple | Bushing | Patta Tee | Patta Elbow | BSP Bend

FLANGES



Weldneck Flange | Collar Flange | Blind Flange | SORF Flange | Weldolet | Weldolet Olet

VALVES



Butterfly Valve | Triclover Clamp | IC Ball Valve | Butterfly Valve Plain End | TC Ball Valve | Flange Ball Valve | 3 Way Valve

DAIRY FITTINGS



TC U-Bend | TC 90° Bend | TC 45° Bend | TC Cross | TC Y-Loop | TC Y-Bend | Pipe Holder

E-mail : sales@mlsepl.com / metallinkengineering@gmail.com

Visit us at : www.mlsepl.com

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FASTENERS IN ALL GRADES


SS HEX BOLT


SS ALLEN CAP


SS ALLEN CSK


SS ALLEN HEAD


SS CH HD SCREW


SS CSK SCREW


SS ROUND HEAD


SS CSK PHILIPS


SS PAN PHILIPS SCREW


SS DOME BOLT


SS RING BOLT


SS EYE BOLT


SS CARRIAGE BOLT


SS HEX NUT


SS LOCK NUT


SS FLANGE NUT


SS NYLOCK NUT


SS WING NUT


SS SQUIRE NUT


SS DOM NUT


SS EYE NUT


SS EYE NUT


SS PLAIN WASHER


SS SPRING WASHER


SS FLAT WASHER


SS SELF TAPPING SCREW


SS STUD


SS THREADING ROD


SS J BOLT


SS U BOLT


SS ANCHOR FASTNER


SS ANCHOR FASTNER


SS CIRCLIP EXTERNAL


SS CIRCLIP


SS FLANGE BOLT

E-mail : sales@mlsepl.com / metallinkengineering@gmail.com

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FACTORY

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WAREHOUSE

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Butt-weld Fitting

Stainless Steel & Duplex Steel Fittings

Size	:	1/2"NB to 36"NB ANSI B 16.9 MSS-SP-43
Schedule	:	105/405/805/1605/XXS
Stainless Steel	:	ASTM A 403 WP-TP 304/304H/304L/316/ 316H/316L/316Ti/309/310/317L/321/347/904L
Duplex Steel	:	ASTM A815-UNS S31803, 532750, 532760, S32205

Alloy Steel, Carbon Steel & LTCS Fittings

Size	:	1/2"NB to 36"NB ANSI B 16.9
Schedule	:	105/405/805/160S/XXS
Alloy Steel	:	ASTM A 234 WPB WP5, WP9, WP11, WP12, WP91
Carbon Steel	:	ASTM A 234 WPB, IS 1239 PART II
Low Temp. CS	:	ASTM A-420 WPL6
Other Service	:	Hot Dip Galvanizing, Sand Blasting

Copper & Nickel Alloys Fittings

Size	:	1/2"NB to 36"NB ANSI B 16.9
Schedule	:	105/405/805
Copper Nickel	:	C70600(90:10), C71500 (70:30), C71640
Nickel	:	UNS N02200, N02201
Monel	:	UNS N04400, N05500, Alloy 20
Inconel	:	UNS N06600, N06601, N06625, N08800, N08810, N08825

Test Certificate

Manufacturer Test Certification
En 3.1 & 3.2
IBR Test Certification Form IIIC

Type

Stubend - (Long & Short)
U Bend
End Cap
Leterals
Elbow (45 DEG, 90 DEG, 180 DEG)
Tee - (Barred, Equal, Reducing)
Reducer (Concentric & Eccentric)
Nipple - (Swage & Barrel)









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Forged Fittings

Stainless Steel & Duplex Steel Forged Fittings

Size	:	1/2"NB to 4"NB (Socket Weld & Threaded)
Class	:	3000#, 6000#, 9000# in ANSI B 16.11
Stainless Steel	:	ASTM A 182F-304/304H/304L/316/316H 316/316Ti, 309, 310, 317L, 321, 347, 904L
Duplex Steel	:	ASTM A182-F51, F53, F55

Alloy Steel, Carbon Steel & LTCS Forged Fittings

Size	:	1/2"NB to 4"NB (Socket Weld & Threaded)
Schedule	:	3000#, 6000#, 9000# in ANSI B 16.11
Alloy Steel	:	ASTM A182-F5, F9, F11, F21, F22 & F91
Carbon Steel	:	ASTM A 105

Low Temp. CS Hot Dip Galvanizing, Sand Blasting, Customized Machining

Copper & Nickel Alloys Forged Fittings

Size	:	1/2"NB to 4"NB, (Socket Weld & Threaded)
Class	:	3000#, 6000#, 9000#, In ANSI B 16.11
Copper Nickel	:	C70600(90:10), C71500 (70:30), C71640
Nickel	:	UNS N02200, N02201
Monel	:	UNS N04400, N05500, Alloy 20
Inconel	:	UNS N06600, N06601, N06625, N08800, N08810, N08825
Hastelloy	:	UNS N10276, N06022, N10665, N06455
Titanium	:	Gr. 1,2,3 DTH 3.7025, DTH 3.7065, DTH 3.7055

Test Certificate

Manufacturer Test Certification
En 3.1 & 3.2
IBR Test Certification Form IIIC

Type

Elbow (45 & 90 Deg)	Coupling
Tee	Cap
Union	Plug
Cross	Bushing
Swage Nipple	Boss









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Fasteners

Stainless Steel : AISI 302. 304. 304L. 316. 316L, 310, 317, 317L, 321 347, 410, 420, 904L etc.

Type : Bolts, Nuts, Washers, Anchor Fasteners, Stud Bolts, Eye Bolt Stud, Threaded / Rod, Cotter Pin, Socket Screw, Fine Fasteners & Spares, Galvanized, Foundationa Fasteners, Vare Condition, Phosphetised Cadium Plated, Hot Deep Galvanized, Bloodied, Nickel Chrome ivate window Plated

Carbon Steel : 4.6. 5.6.6.6

High Tensile / Allov Steel : 8.8, 10.9 & 12.9 / 'R', 'S, 'T' Conditions

Non Ferrous Metal : Copper, Brass, Aluminium, Titanium, Nichrome Al. Bronze Phosphorous Bronze, etc

Cu Ni Tube Fittings : C 70600 (90:10), C71500 (70:30)

Nickel : UNS N02200, N02201

Monel : UNS N04400, N05500, Alloy 20

Inconel : UNS N06600, N06601, N08800, N08810, N08825

Hastelloy : UNS N10276, N06022, N10665, N06455

Others : Copper, Brass, Bronze, Titanium, Tantalum, Bismuth, Aluminium, High Speed Steel, Zinc Lead etc.

Test Certificate

Manufacturer Test Certification
En 3.1 & 3.2
IBR Test Certification Form IIIC

Type

Bolts, Nuts, Washers, Anchor Fasteners, Stud Bolts, Eye Bolt Stud, Threaded Rod, Cotter Pin, Socket Screw, Fine Fasteners & Spares, Galvanized, Foundationa Fasteners, Vare Condition, Phosphetised Cadium Plated,









Branch Connection

Stainless Steel & Duplex Steel Outlets

Size	:	1/2"NB to 24"NB in Various Schedule
Class	:	3000LBS, 6000LBS
Stainless Steel	:	ASTM A 182F-304/304H/304L/316/316H 316/316Ti, 309, 310, 317L, 321, 347, 904L
Duplex Steel	:	ASTM A 182-F51, F53, F55

Alloy Steel, Carbon Steel & LTCS Outlets

Size	:	1/2"NB to 4"NB in various Schedule
Schedule	:	3000 LBS, 6000 LBS
Alloy Steel	:	ASTM A 182-F5, F9, F11, F21, F22 & F91
Carbon Steel	:	ASTM A 105
Low Temp. CS	:	A 350 LF2

Copper & Nickel Alloys Outlets

Size	:	1/2"NB to 24"NB in various Schedule
Class	:	3000 LBS, 6000 LBS
Copper Nickel	:	C70600 (90:10), C71500 (70:30), C71640
Nickel	:	UNS N02200, N02201
Monel	:	UNS N04400, N05500, Alloy 20
Inconel	:	UNS N06600, N06601, N06625, N08800, N08810, N08825
Hastelloy	:	UNS N10276, N06022, N10665, N06455
Titanium	:	Gr. 1,2,3 DTH 3.7025, DTH 3.7035, DTH 3.7055

Test Certificate

Manufacturer Test Certification
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Type

Weldolet
Sockolet
Elbolet Theadolet
Nipolet
Latrolet
Sweepolet







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Long Radius Bend

Stainless Steel & Duplex Steel Bends

Size	:	1/2"NB to 34"NB
Schedule	:	Sch. 10 to Sch. 160 in 3D, 5D, 6D, 8D, 10D
Stainless Steel	:	ASTM A 403 WP-TP 304/304H/304L/316/316H/ 316L/316Ti/309/310/317L/321/347/904L
Duplex Steel	:	ASTM A815-UNS S31803, S32750, S32760,S32205

Alloy Steel, Carbon Steel & LTCS Bends

Size	:	2" to 24"
Schedule	:	Sch. 2 to Sch XXS in 3D, 5D, 6D, 8D, 10D
Alloy Steel	:	ASTM A 234 WPB WPS, WP9, WP11, WP12, WP91
Carbon Steel	:	ASTM A 234 WPB
Low Temp. CS	:	ASTM A-420 WPL6

Copper & Nickel Alloys Bends

Size	:	½" to 12"
Schedule	:	Sch. 10 to Sch 80 in 3D, 5D, 6D, 8D, 10D
Copper Nickel	:	C70600(90:10), C71500 (70:30), C71640
Nickel	:	UNS N02200, N02201
Monel	:	UNS N04400, N05500, Alloy 20
Inconel	:	UNS N06600, N06601, N06625, N08800, N08810, N08825
Hastelloy	:	UNS N10276, N06022, N10665, N06455
Tolerance	:	Minimum wall Thickness Rate and Ovality, No Wrinkles, with required Tangent length

Test Certificate

Manufacturer Test Certification
En 3.1 & 3.2
IBR Test Certification Form IIIC

Type

Long Radius Bend
Piggable Bend
Hot Bend
Customized Bend







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Flanges

Stainless Steel & Duplex Steel Flanges

Size	:	1/2"NB to 48" NB, ANSI B 16.5
Class	:	150#, 300#, 600#, 900#, 1500#, 2500#, in ASA 150 & ASA 300
Stainless Steel	:	ASTM A 240/182 F-304/304H/304L/316/316H/ 316L/316TI/309/310/317L/321/347/904L
Duplex Steel	:	ASTM A 182-F51, F53, F55

Alloy Steel, Carbon Steel & LTCS Flanges

Size	:	1/2"NB to 48" NB ANSI B16.5
Schedule	:	150#, 300#, 600#, 900#, 1500#, 2500# in ASA 150 & ASA 300
Alloy Steel	:	ASTM A182-F5, F9, F11, F21, F22 & F91
Carbon Steel	:	ASTM A 105, ASTM A694, F42, F46, F52, F60, F65, F70
Low Temp. CS	:	A 350 LF2, A 516 GR. 70

Copper & Nickel Alloys Flanges

Size	:	1/2"NB to 6"NB in various Schedule
Standard	:	150#, 300#, 600#, 900#, 1500#, 2500# in ASA 150 & ASA 300
Copper Nickel	:	C70600 (90:10), C71500 (70:30), C71640
Nickel	:	UNS N02200, N02201
Monel	:	UNS N04400, N05500, Alloy 20
Inconel	:	UNS N06600, N06601, N06625, N08800, N08810, N08825
Hastelloy	:	UNS N10276, N06022, N10665, N06455
Titanium	:	Gr. 1,2,3 DTH 3.7025, DTH 3.7035, DTH 3.7055

Test Certificate

Manufacturer Test Certification
En 3.1 & 3.2
IBR Test Certification Form IIIC

Type

Weldolet
Socketwled
Slip on
Blind
Screwed/Threaded
Long Weldneck
Lapped Joint
Spectacle Blind





Large Diameter Pipe Fittings

Size	:	6" NB to 60"NB
Thickness	:	Sch. 10S/40S/80S/160/XXS
Dimension	:	ANSI B 16.9:2007, MSS-SP-43, MSS-SP-75
Type	:	Elbow, Tee, Reducer, Stubend, Laterals, Customized Fittings.
Stainless Steel	:	ASTM A403, WPW-TP 304/304H/304L/, 316/316H/316L/ 316Ti, 309, 310, 317L, 321, 347, 904L
Duplex Steel	:	ASTM A815-UNS S31803, S32760, S31500
Alloy Steel	:	ASTM A 234 WPW, WP5, WP9, WP11, WP12, WP91,
Carbon Steel	:	ASTM A 234 WPB
Low Temperature	:	ASTM A-420 WPL6

Carbon Steel

Copper Nickel	:	C70600 (90:10), C71500 (70:30) C71640
Nickel	:	UNS N02200, N02201
Monel	:	UNS N04400, N05500, Alloy 20
Inconel	:	UNS N06600, N06601, N06625, N08800, N08810, N08825
Other Service	:	Hot Dip Galvanizing, Sand Blasting

Test Certificate

Manufacturer Test Certification
En 3.1 & 3.2
IBR Test Certification Form IIIC

Type

Elbow
Tee
Reducer
Stubend
Laterals
Customized





S.S. Welded 90 Deg Elbow
ASTM A 403 WPW UNS No. 8904
Heat No. N 4114



Duplex Welded Equal Tee
ASTM A815 UNS 31803
Heat No. N 8102



S.S. Welded Con. Reducer
ASTM A 403 WPW 347
Heat No. N 9434

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Pipes

Stainless Steel & Duplex Steel Pipe

Size	:	½" to 30"
Schedule	:	Sch. 5 to Sch. XXS
Stainless Steel	:	ASTM A312, A358-TP 304/304H/304L/316/316H/ 316L/316Ti/309/310/317/317L/321/347/904L
Duplex Steel	:	ASTM A790-UNS S31803, S32750, S32760, $32205

Alloy Steel, Carbon Steel & LTCS Pipe

Size	:	1/2" to 36"
Schedule	:	Sch. 5 to Sch. XXS
Alloy Steel	:	Pipe ASTM A335 Gr. P5, P9, P11, P12, P22 & P91
Carbon Steel	:	ASTM A 106 Gr. B ASTM A53
Low Temp. Pipe	:	ASTM A 333 Gr. 6
Line Pipe	:	API 5L, X 42, 46, 52, 56, 60, 70
Mild Steel & Galvanized Pipe	:	IS 1239, IS 3589

Copper & Nickel Alloys pipe

Size	:	1/2" NB to 10" NB :
Standard	:	105/405/805
Copper Nickel	:	C70600 (90:10), C71500 (70:30), C71640
Nickel :		UNS N02200, N02201
Monel	:	UNS N04400, N05500, Alloy 20
Inconel	:	UNS N06600, N06601, N06625, N08800, N08810, N08825
Hastelloy	:	UNS N10276, N06022, N10665, N06455

Test Certificate

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En 3.1 & 3.2
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Type

Round
Square
Rectangle
Hydraulic





Tubes

Size	:	6 mm OD to 219.08 mm OD
Thickness	:	0.6mm-10mm-Gauge: 22 SWG/BWG to 10 SWG/BWG
Form	:	Round, Square, Rectangle, Coil, 'U' Shap
Length	:	Standard Length & Cut Length
Stainless Steel Tube	:	ASTM A-213, A-249, A269-TP 304/304H/304L, 316/316H/ 316L/316TI, TP 309, 310, 317L, 321, 347, 904 L etc.
Low Alloy Steel Tube	:	ASTM A 213-T-11, T-12, T-22, T-5, T-9 etc.
Carbon Steel Tube	:	BS 3059 Gr. 360/440, SA 179, SA/ASTM A210 Gr. A1
Copper Nickel Tube	:	ASTM B111, C70600 (90.10), C71500 (70:30), C71640
Admiralty Brass Tube	:	ASTM B 111 C44300, C44400, C44500, C68700
Copper & Brass Tube	:	ASTM B 188 C11000, C12200, C26000, C27000, C28000
Nickel Alloy Tube	:	Nickel, Monel, Inconel, Alloy 20 etc.
Specialize	:	Capillary Tube, IBR Tubes, Copper Nickel Tube

Test Certificate

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En 3.1 & 3.2
IBR Test Certification Form IIIC

Type

Round
Square
Rectangle
Hydraulic







Bars and Shafts

Size	:	5 mm^2 to 500mm dia
Length	:	500 mm to 6000 mm long and in cut to size
Form	:	Round, Square, Hex (A/F), Rectangle, Flat etc.
Stainless Steel Bar	:	ASTM A-479, A 182 F 304/304H/304L, 316/316L/316TI, 309, 310, 317L, 321, 347, 409, 410, 420, 430, 440 (A, B, C) 446, 904L, etc.
Other Grade Bar	:	17-4PH, 15.5 PH, 4122 etc.
Duplex Steel Bar	:	A 182 F51, F53, F55
Carbon Steel Bar	:	A 105, LF 2
Alloy Steel Bar	:	ASTM A-182 F11, F12, F22, FF5, F9, F91
Cu-Ni Bar	:	C70660 (90:10) C71500 (70:30), C71640
Nickel Bar	:	UNS N02200, N02201
Monel Bar	:	UNS N04400, N05500
Inconel Bar	:	UNS N06600, N06601, N06625, N08800, N08810, UNS N08825
Hastelloy Bar	:	UNS N10276, N06022, N10665, N06455

Test Certificate

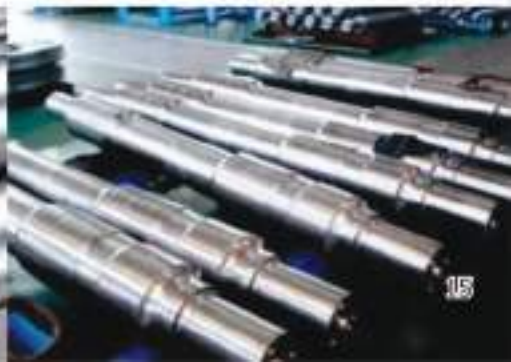
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Type

Round
Square
Hex (A/F)
Rectangle









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Tube Fitting

Size	:	1/16" to 2""
Type	:	Union tee, Female tee, Branch tee, Run tee, Male connector, Female connector, Elbow, Bulk Head Union, Reducing Union, OD Cap, OD plug,.
SS Tube fittings	:	Gr. 304, 304H, 309, 310, 316, 316L, 317L, 321, 347, 904L
Duplex S S Tube Fittings	:	UNS N031803, N032750, N032760
CS Tube Fittings	:	A105
AS Tube Fittings	:	Gr. 5, Gr.9, Gr.11, Gr.12, Gr.22, Gr.91
Cu Ni Tube Fittings	:	C 70600 (90:10), C71500 (70:30)
Nickel	:	UNS N02200, N02201
Monel	:	UNS N04400, N05500, Alloy 20
Inconel	:	UNS N06600, N06601, N08800, N08810, N08825
Hastelloy	:	UNS N10276, N06022, N10665, N06455
Other Services	:	Silver Plating
Specialize	:	Double compression fitting, Ball Valve, Needle, Check.0

Test Certificate

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En 3.1 & 3.2
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Type

Union tee
Female tee
Branch tee
Run tee
Male Connector
Female Connector
Elbow
Bulk head union
Reducing union
OD cap
OD plug







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Sheet / Plate / Coil

Size	:	0.5mm to 200 mm thick in 1000 mm To 3000 mm width & 2500 to 1200 mm Length available with NACEMR 01-7.5
Grade	:	304, 304L, 304H, 316,316N, 316Ti, 316H, 316LN, 309S, 309H, 310S, 310H,
	:	317, 317L, 317H, 321, 321H, 347, 347H, 904L, 405, 409, 409M, 410, 420, 430, 431, 446, 441, 444, SMO 254, 253MA
Duplex S S Tube Fittings	:	ASTM A36, A285 Gr.C, A516 Gr.70, IS 2062 Gr. A/B, A 516, G65/60
CS Tube Fittings	:	ASTM A387 Gr.11, Gr.12, Gr.22, Gr.91, Gr.92, Gr.5, Gr.9 (Ct. 1/2) 16Mo3, 15Mo3
AS Tube Fittings	:	Hardox 400, Hardox 500, Abrex 400, Abrex 500, Sumihard 400, Sumihard 500
Cu Ni Tube Fittings	:	C 70600 (90:10), C71500 (70:30)
Nickel	:	UNS N02200, N02201
Monel	:	UNS N04400, N05500, Alloy 20
Inconel	:	UNS N06600, N06601, N08800, N08810, N08825
Hastelloy	:	UNS N10276, N06022, N10665, N06455
Other Services	:	Silver Plating
Specialize	:	Double compression fitting, Ball Valve, Needle, Check.0

Test Certificate

Manufacturer Test Certification
En 3.1 & 3.2 / NACE MR0175

Type

SHEET | STRIP
COIL | PLATE
CUT-PIECE SHEET / PLATE









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Structural Steel

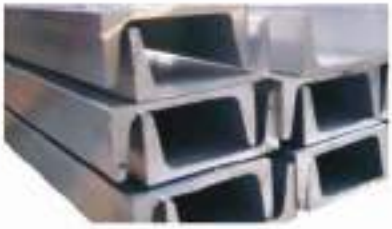
STAINLESS STEEL & MILD STEEL ANGLES

Product Range:- The following are the sizes available.

25 x 25 x 3/5, 35 x 35 x 5, 40 x 40 x 5/6, 45 x 45 x 4/5/6,
50 x 50 x 5/6, 60 x 60 x 6/8, 65 x 65 x 6/8/10, 75 x 75 x 6/8/10, 80 x 80 x 6/8,
90 x 90 x 6/8/10,100 x 100 x 6/8/10/12, 110 x 110 x 8/10/12, 130 x 130 x
10/12, 150 x 150 x 10/12,150 x 150 x 16/20 200 x 200 x 16/20

All the above mentioned sizes are in mm.





STAINLESS STEEL & MILD STEEL CHANNEL

Product Range:- The following are the sizes available.

75 x 40, 100 x 50, 125 x 75, 150 x 75, 175 x 75, 200 x 75,
250 x 80, 300 x 90, 350 x 100, 400 x 100.

All the above mentioned sizes are in mm

STAINLESS STEEL & MILD STEEL BEAM

Light, Medium, Standrad

Product Range:- The following are the sizes available.

100 x 50, 125 x 70,150 x 75, 175 x 85, 200 x 100 , 250 x 125, 300 x 140, 350
x 140, 400 x 150, 450 x 150, 500 x 180, 600 x 210.

All the above mentioned sizes are in mm





MS Rounds Bars

Product Name:- Wire Rods

Grade:- Low Carbon - SWR-14 / IS:2062 Gr.A

Product Range:- Diameters available (unit mm), 5mm to 250mm

All the above mentioned sizes are in mm

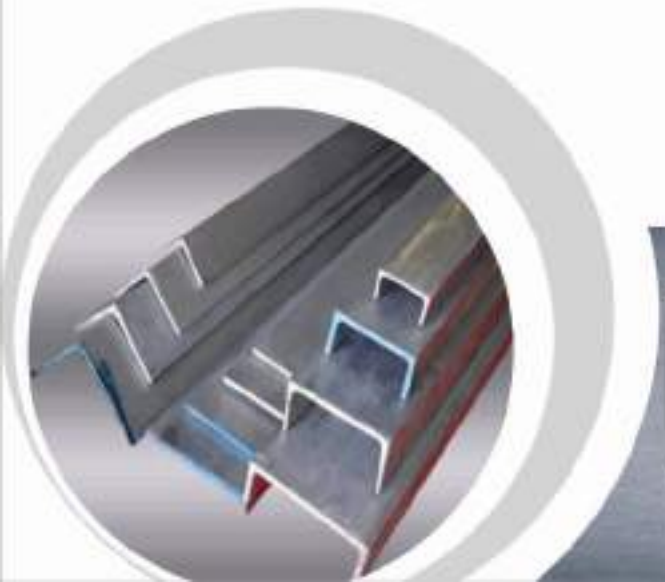
These are available in straight lengths (as mutually agreed).

TMT Bars

We have a wide range of TMT Re Bars which are available in various types & from Various Primary & Secondary Maufacturers.

Above Material can be offered in Grades Like FE 415 / FE 500 With Manufacturing Test certificate.





MS Flats

Available in size

21 x 6 mm to 300 x 16 mm

MS Square Bars

Available in size

10 x 10 mm to 63 x 63 mm







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VALVES



BALL VALVE (BV)



Pipe Thread Size	: 1/8" to 2" NPT / BSP / BSPT Threads
Test Pressure	: Up to 2000 psi
Packing	: PTFE
MOC	: SS 304, 316, Brass, Monel, C-276



MANIFOLD VALVES

Design	: Two Way, Three Way, Five Way, Manifold Straight & 'T' Type & 'H' Type
End Connection	: NPT / BSP / Flange (1/8" to 1")
Material	: SS 316 / SS 304 / CS / Brass / Monel
Pressure Rating	: 10,000 psig





NEEDLE VALVES

Needle Vavles are available in size, range of 1/8" to 2" with Double Ferrule Tube connection and NPT, BSP, BSPT, Threaded male / female connections with maximum working pressure 10,000 psi. Valves are available in Stainless Steel of all grades, Monel, Brass, C.S. etc.









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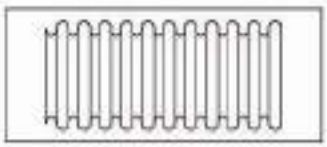
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FLEXIBLE METAL HOSES

HOSE



In modern industrial piping Flexible Metal Hoses are extensively used for good flexibility, corrosion resistance fatigue resistance, high and ow temperature resistance -200°C to +650°C), high pressure resistance and lonc service life.STAINLESWe offer Stainless steel corrugated flexible hoses & hose assemblies from 6mm (1/4") to 250 mm (10"). The annular corrugated hose body provides the flexibility and pressure tight core of the assemblyWe also manufacture highly flexible close-pitch hose for Special ApplicationsAnnular Profile Independent



Annular Profile
Independent corrugations,
straight and parallel

BRAID

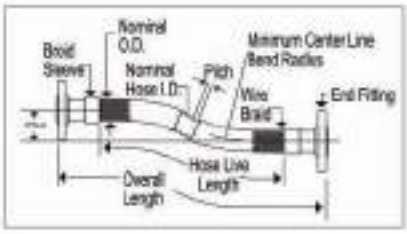


Unbraided corrugated hoses tend to elongate when pressurized above a certain level. To restrain this, an external layer of stainless steel wire braiding is provided on the hose. Braiding prevents longitudinal expansion of corrugated hose and thus increases the internal pressure strengthen the hose many fold. Braiding is highly flexible and exactly follows the movements of the hose.To increase the pressure ratings further, two or even three layers of braiding are provided. Unless specified, braiding is normally manufactured in high tensile stainless steel AISI 304 wire, or stainless steel AISI 316. In case of bulk requirement, we also manufacture Braids as per client's requirements.

ASSEMBLIES & END CONNECTIONS



A hose assembly consists of a metal hose, with or without braid,with fittings, designed, manufactured and tested.Metro Metals can design and manufacture almost any kind of hose assembly, either from our standard program or customer's specification.



FLEXIBLE EXHAUST CONNECTION

A hose assembly consists of a metal hose, with or without braid, with fittings, designed, manufactured and tested.Metro Metals can design and manufacture almost any kind of hose assembly, either from our standard program or customer's specification.Our thin wall, flexible connector design offers an excellent characteristic of vibration and durability. Multi-ply construction available in all materials with diverse selection of material options, including special alloys for corrosion and temperature resistance. Flexibility vs. Stiffness can be customized as needed.











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COPPER & BRASS

Copper	DHP Copper, ETP Copper, DPA Copper OFHC Copper
BRASS	63 / 37 Brass, 70 / 30 Brass, Admirality Brass, Aluminium Brass & other Compositions of Brass.
CUPRONICKEL	95 / 5 alloy, 90 / 10 alloy & 70 / 30 alloy.
BRONZES	Phosphorous Bronze Aluminium Bronze & Gun Metal, Phosphorous Bronze A B1 / A B2 Bush Round.



BRASS TUBES



COPPER TUBES

TUBES	2mm OD to 200mm OD with Wall thickness of 0.10 mm to 15 mm in length upto 10 mtrs straight (in coils upto 25 mtrs) in copper, Brass & Curpronickel.
RODS	In all size upto 160mm diameter in Copper, Brass and Bronzes.
STRIPS / PROFILES	Copper Strips and sections as per clients specific requirements.
WIRES	Copper wires upto 42 swg in bright annealed condition.
S. E. WIRES	Super enamelled copper wires upto 42 swg.



BRASS RODS

SPECIFICTIONS

Indian Standard Specification (ISS)
British Standard Specification (BSS)
American Standard for Testing of Material (ASTM)
As per Parties Specific Specifiaction.



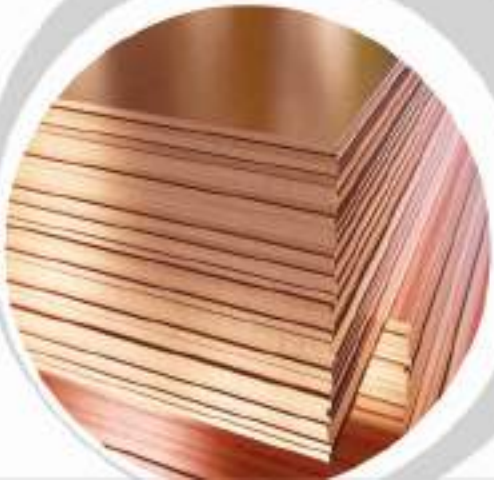
COPPER TUBES & SECTIONS



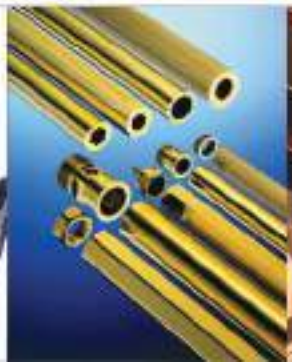
BRASS PIPE FITTINGS



COPPER PIPE FITTINGS











GASKETS

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Spiral Wound Gasket | PTFE Gasket | Rubber Gasket
CAF Gasket / AF Gasket | Metal Jacketed Gasket
Ring Type Joint Gasket | Kammprofile Gasket | Corrugated Gasket

PROPERTIES AND APPLICATION

Spiral wound gaskets are special semi-metallic gaskets of great resilience, therefore they are very suitable for applications featuring heavy operating conditions. Spiral wound gaskets are manufactured by spirally winding a V-shaped metal strip and a strip of non-me- tallic filler material. The metal strip holds the filler, providing the gasket with mechanical resistance and resilience. Spiral wound gaskets can be reinforced by an outer centering ring and/or inner retaining ring. The outer centering ring controls the compression and holds the gasket centrally within the bolt circle. The inner re- taining ring increases the axial rigidity and resilience of the gasket. Spiral wound gaskets should always be in contact with the flange and should not protrude into the pipe or project from the flange. Spiral wound gaskets can be used for sealing flange joints, manhole and handhold covers, tube covers, boilers, heat exchangers, pres- sure vessels, pumps, compressors and valves; in industries such as petrochemical, pharmaceutical, shipbuilding, and food processing, in power industries and nuclear power stations. They are ideal for steam, oil, liquids, gases, acids, alkalines, various organic medium- sand solvents.

ADVANTAGES

Sealing under heavy operating conditions.
Strong stress compensation, stable and reliable sealing perfor- mance even under frequent pressure fluctuation condition.

Solid construction provides stability and sea liability even when the sealing surfaces are slightly corroded or bent.
Easy installation.

SHAPE AND CONSTRUCTION

Spiral wound gaskets are produced in several styles and combina- tion of materials to fit the most stringent application. Spiral wound gaskets are usually of circular shape, however we can produce them in other shapes such as: oval, rectangular, with round corners, etc. Our standard production program comprises a range of spiral wound gaskets with inner diameters of 10 mm to 3000 mm and a nominal thickness of 3.2 mm, 4.5 mm and 6.5 mm. Spiral wound gaskets of non-standard dimensionsand shapes, and larger diam- eters are available on request.

GASKET STANDARD STYLES

Gaskets without guide and inner ring
Gaskets without guide and inner ring
Gaskets with inner ring
Gaskets with guide (outer) ring
Gaskets with guide and with inner ring









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Application Industries









- Ship Building
- Engineering
- Chemical & Pharmaceutical
- Nuclear Power
- Paper & Pulp Industries
- Petro-Chemical
- Food Industries
- Railway
- Sugar Industries
- Cement Industries
- Oil & Gas Industries
- Water Piping System

Third Party Inspection

LARSEN & TOUBRO

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Department of Atomic Energy

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