

Industrial Supplies
Pipeline Products & Valves

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Application	Products	Quality
Oil, gas and chemical industries Petrochemical and Refining industry Desalination plants Mechanical engineering Pharmaceutical	PIPES - TUBES - BUTTWELD FITTINGS BENDS FLANGES- RINGS - DISCS FORGED FITTINGS FASTENERS GASKET & INSULATING KIT SHEETS & PLATES BAR -WIRE VALVES and Valves Components Special Pieces according customer drawing	CARBON STEEL- STAINLESS STEEL- ALLOY STEEL DUPLEX STEEL -NICKEL ALLOY - INCONEL - MONEL HASTELLOY - TITANIUM- COPPER NICKEL BRASS - COPPER & COPPER ALLOY ALUMINIUM BRONZE POLYETHYLENE CAST IRON COPPER PVDF

PIPES
Seamless and Welded

Product	Specification	Material Grade
SEAMLESS PIPE	ASTM/ASME A/SA 53	GR.B
	ASTM/ASME A/SA 106	GR. B-C
	ASTM/ASME A/SA 333	GR. 6
	API 5L	(L245) - X42 (L290) - X46 - X52 (L360) X60 (L415) - X65 (L450) ST37.0, ST52.0 ; S235JRH , S275J2H , S355J2H ; S355J0H, S355J2H, 10#, 20#
WELDED PIPE	API 5L	B (L245) - X42 (L290) - X52 (L360)X60 (L415) - X65 (L450) - X70 (L485)X80 (L555)
	EN10217 - EN10219	S275JOH - S355JOH - S355J2H - S420MH - S460MH
	UNI 7683	FE360
LSAW PIPE HELICOIDAL PIPE	API 5L, A671/A672/A53,	GR.B-X70, L245,L290, A55/B70/C70/E60, K34-K55, S355, ST37
	SA 516	GR. 50 -70

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	SA 387	GR. 11 + 22		
	A672/A691	GRADE 1.25 /2.25 /5 / 9		
		1 CR , 1 1/4 CR , 2 1/4 CR , 5 CR , 9CR , 91		
ALLOY STEEL SEAMLESS PIPES	A335	GRP5/ P9 / P11/ P22/P91		
	SPECIAL COATING			
	BITUMEN COATING			
	ZINC COATED			
	3 LPE (External 3 Layer Polyethylene)-link			
	3 LPP (External 3 Layer Polypropylene)-link			
	FBE (External Fusion Bonded Epoxy (Single / Dual Layer))-link			
	Internal Epoxy Coating-link			
	Other Anti-Corrosion COATINGS			
STAINLESS STEEL SMLS PIPE	ASTM A312, A213, A269, A789, A790; B163, SB165, B423	TP304/304L, 304H, TP316/316L, 316H /316Ti, TP317/317L, TP321/321H, TP347/347H, 904L, TP310H, TP310S TP405, TP410, S31260, S31500, S31803, S32550, S32750, S32760		
SMLS PIPE	SPECIAL GRADE	Alloy 20 Alloy 400 Inconel 600, UNSN06600 Inconel 625 Incoloy 800, UNS N08800 H800HT, UNSN08810&N08811 Incoloy 825, UNSN08825 Hastelloy C22 - C276		
STAINLESS STEEL WELDED PIPES	ASTM A778 , ASTM A312, ASTM A358, ASTM A409/A928	304, 304H,304L,316L,316H,316Ti		

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	B725, SB 775	321,321H,904L, 310/310S/310H		
		347/347H 317,317L		
		S31803 S32750, 2507, F53,S32760		
		800, H800HT,		
		Incoloy 800, Incoloy 825, Inconel 600, Inconel 625		
		Alloy 20		
		ALLOY 400		
		SMO254		
		Hastelloy C-276		
		Hastelloy C-22		
HIGH PRESSURE BOILER PIPE	A106 - A210 - A213 - A335	T/P5-T/P11-T/P12 - T/P22-T/P91		
COLD DRAWN TUBE HEAT EXCHANGER TUBES <u>Heat Exchanger 'U'-TUBES'</u>	ASTM /ASME A/SA : 213, 249, 268, 269, 270, 312, 688, 376, 789	TP 304, 304H, 304L, 304LN, 310, 310H,316, 316L, 316H, 316Ti, 316LN, 317, 317L, 321, 321H,347, 347H, 405, 409, 410, UNS 32205, UNS 32750, UNS 31803,S32750, S32760		
COPPER ALLOY TUBES	ASTM / ASME SB 111	UNS NO. C 10100 , 10200 , 10300 , 10800 , 12000,12200, 70600 , 71500		
	ASTM / ASME SB 466	UNS NO. C 70600 (CU -NI- 90/10) , C 71500 (CU -NI- 70/30)		
ALUMINIUM BRASS		ALLOY C68700 - CZ - 110- CuZn20 AL2As - CuZn22 Al2 - C 6870		
		ADMIRALTY BRASS		
	SPECIAL TUBE:			
	FINNED TUBES - STUDDED TUBES			

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Application	Products	Quality		
	FITTINGS			
	<i>Alloy & Carbon Butt-Welding Pipe Fittings</i>			
<i>ISO & ANSI</i>	<i>Asme B16.9 -MSS SP75</i>			
ELBOWS SR - LR 30° - 45° - 90° -180°	ASTM A234 ACC. ASME B16.9	ASTM/ASME SA234 WPB, WPC		
EQUAL TEES	ASTM A420	WPL6		
REDUCING TEES	ASTM A234 ACC. ASME B16.9	ASTM/ASME SA234 WP5, WP9, WP11, WP12, WP22, WP91		
CONCENTRIC AND ECCENTRIC REDUCERS	A860 WPHY 42/ 52/ 60/ 65/ 70			
CAPS	P235TR , P355N;			
RETURN BEND				
CROSSES				
	SPECIAL PRODUCTS			
	LARGE RADIUS BENDS			
	BARRED TEES			
	"Y" PIECES			
	CLADDED FITTINGS			
	FABRICATED PIECES FOR MANIFOLDS			
	EQUAL AND REDUCING LATERALS			
	SPECIAL FITTINGS ACCORDING TO CUSTOMER'S DRAWING			
<i>ISO & ANSI</i>	STAINLESS STEEL FITTINGS			
ELBOWS SR - LR 30° - 45° - 90° -180°	ASTM A403	ASTM A815/A 815M	ASTM B366	
EQUAL TEES	304/L	Duplex 2205 - UNS S31803	ALLOY 20	
REDUCING TEES	316/L	S32750	N04400	
CONCENTRIC AND ECCENTRIC REDUCERS	317/L	S32760	N06600	
CAPS	310/S	904L	N06625	
RETURN BEND	304H	SMO254	N08800	
CROSSES	321/321H		N08810	

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Application	Products	Quality
	347/347H	N08825
	316Ti	HASTELLOY C22
	316H	HASTELLOY C276
LAP JOINT STUB END		TITANIUM
	FORGED FITTINGS	
	ANSI B 1.11 / MSS-SP-83-2001	
45° ELBOWS	A105	A-105 / LF-2
90° ELBOWS M/F	A182	F-5, F-9, F-11, F-22
TEES	A182	304/L, 316/L, 321, 317/L, 904L, DUPLEX AND SUPER DUBLEX
CROSSES	SB 564	INCONEL, MONEL, HASTELLOY, ALLOY 20
COUPLING		
HALF COUPLING		
CAPS		
MALE PLUGS		
HEX BUSHING		
EXAGONAL NIPPLES	SPECIAL GRADE	
UNIONS		
PIPE NIPPLES	TITANIUM GR. 1-5	
SWAGE NIPPLES	COPPER NICKEL C70600 (90/10) - C71500 (70/30)	
ELBOLET	SMO254	
LATROLET		
ETC.		
	SPECIAL TYPES	
	NIPOFLANGE	
	REDUCER INCERTS	
	NOZZLES	
	Megalet, Latromegalet, Socket-weld Megalet, Threaded Megalet, Insert-Megalet, Elbow-Megalet	
	Wyes, Tees, Lateral Tee, Piggable Wyes, Piggable Lateral Tee	
	Swivel and anchor flanges	

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Application	Products	Quality
	FLANGES - RING - DISC	
	RF-FF-RJ	
	FLANGES CLASS 150 (PN20) to CLASS 2500 (PN 420)	
	ASME/ANSI Standard B16.5	
	MSS, API, AWWA, ANSI	
	FLANGE UNI EN 1092-1	
	API TYPE 6A - RTJ Face Flanges.	
	API-605 FLANGES/ANSI B 16.47 SERIES B	
	MSS-SP-44 FLANGES/ANSI B 16.47 SERIES A-SERIES B	
Welding Neck	A105	ASTM/ASME SA-105, A-350 LF-2, LF-3, A694, SA-516-70, A36
Long Welding Neck	A350	A-350 LF-2, LF-3
Slip-On	A182	CHROME ALLOYS - A-182-F-1, F-5, F-6, F-7, F-9, F-11, F-12, F-22, F-51
Blind	A182/A240	STAINLESS STEEL - A-182 - F-304, 304L, 316, 316L, 309, 310, 317L, 321, 347,
Threaded NPT	SB564	MONEL - 400,INCONEL - 600, 601, 625, 718 INCOLOY - 800, 825
Lap Joint		
Socket Welding		
SWIVEL FLANGES		
	Special Grade:	
	ALLOY 20	
	ALUMINUM - 1100, 2014, 3003, 5083, 5086, 6061, 7075	
	HASTELLOY - B-2, C-276, G, X	
	COPPER - C11000 - CuNi	
	NAVAL BRASS - (Bronze)	
	TITANIUM	
	ANCHOR FLANGES AND SPECIAL FLANGES ACC. CUSTOMER DWG	
	REDUCING FLANGES Welding Neck, Threaded, Slip-on	
	ORIFICE FLANGES	
	LARGE DIAMETER FLANGES	

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Application	Products	Quality		
	AWWA Class B, D, E, Slip-on			
	Class 150 Series A ASME B16.47			
	Class 150 Series B ASME B16.47			
	STUB ENDS			
	MSS Type A / Type B / Type C Special Stub Ends			
	A/SA234 Carbon Alloys			
	ASTM A234 WPB, WPBW, WPHY 42, 46, 52, 60, 65, 70.			
	ASTM A420 WPL3/A420WPL6			
	ASTM A 234 WP-P5, P9, P11, P12, P21, P22 & P91			
	A/SA815 Duplex Alloys	UNS		
	2205	S31803/S32205	Copper Nickel Alloys	
	Zeron 100	S32760	CUNI 90/10	
	2507	S32750	CUNI 70/30	
	410	S41000		
	B-361 Aluminum Alloys	UNS		
	6061	A96061	C70600	
	6063	A96063	C71500	
	A/SA403 Stainless Alloys	B/SB366 Nickel Alloys		
	304/304L	N06022	UNS	
	304H	N10675	K03006	
	316/316L	N06985		
	316H	N06002		
	317L	N06200		
	904L	N10276		
	309S/H	N06600		
	310S	N04400		
	321	N02200		
	6XN	N02201		
	20CB	N06625		
	347	N08825		
	254SMO			

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	STUD BOLTS - NUTS - SPECIAL FASTENERS			
	A193 B7 - A320 L7 - A193 B8 - A193 B8M - A453 660 - A540 - A564 - A182 F51 - A182 F55			
	INCHES MEASURES 5/16" - 5"			
	METRIC MEASURES M6 - M125			
	CARBON STEEL			
	LOW-ALLOY STEEL			
	AUSTENITIC STEEL			
	MARTENSITIC STEEL			
	DUPLEX			
	SUPERDUPLEX			
	TITANIUM			
	MONEL -HASTELLOY - INCONEL			
	INCOLOY			
	COATING			
	PTFE - PHOSPHATING - HOT DIP GALVANIZING			
	ZINC-COPPER-NICKEL-SILVER			
	GASKETS			
	INSULATION KIT			
	SPIRAL WOUND - CAMMPROFILE - RING JOINT			
	OCTAGONAL & AND OVAL RING GASKETS			
	O-RING			
	ASA 150 ÷ 2500			
	CARBON STEEL			
	STAINLESS STEEL			
	ALLOY 20			

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Application	Products	Quality
	MONEL®	
	TITANIUM®	
	NICKEL®	
	INCONEL® 600	
	INCONEL® 625	
	INCONEL® X-750	
	HASTELLOY® B2	
	HASTELLOY® C276	
	INCOLOY® 800	
	INCOLOY® 825	
	DUPLEX	
	SUPER DUPLEX	
	ZIRCONIUM®	
	TANTALUM®	
	COPPER	
	PHOS-BRONZE	
	GRAPHITE REINFORCED - PTFE	
	VALVES	
	MANIFOLD	
	FORGED AND CAST VALVES (RB & FB)	Casting Materials: WCB, LCB, WC6, WC9, C5, C12, CF3, CF3M, CF8, CF8M, C95500, 4A, 5A, Inconel 825/625, etc.
	API 602 FORGED VALVES	Forging Materials: A105, LF2, F11, F12, F304, F321, F347, F316, 304L, 316L, C61900, F51, F53, F55, Inconel, etc.
	API 6A	
	GATE / GLOBE / CHECK - SWING CHECK / BALL	CAST IRON
	BUTTERFLY / PLUG VALVE	DUCTILE IRON
	PRESSURE SEAL	BRONZE & BRASS
	FLOATING BALL	
	TRUNNION BALL	
	3 WAY VALVES	

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Application	Products	Quality		
	BELLOW SEAL			
	ELECTRIC ACTUATED VALVES			
	Valves For Cryogenic Service			
	BS 1868 Steel Check Valves for the Petroleum, Petrochemical and Allied Industries			
	BS 1873 Steel Globe and Globe Stop and Check Valves for the Petroleum, Petrochemical and Allied Industries			
	BS 5154 Specification For Copper Alloy Globe, Globe Stop And Check, Check And Gate Valves			
	BS 5155 Cast Iron & Carbon Steel Butterfly Valves for General Purpose			
	BS 6364 Specification for Valves For Cryogenic Service			
	API Spec. 6FA Specification for Fire Test for Valves			
	API STD 594 Wafer, Wafer-lug and Double Flanged Type			
	API STD 598 Valve Inspection and Testing			
	API STD 599 Metal Plug Valves, Flanged, Threaded and welding Ends			
	API STD 609 Butterfly Valves, Double Flanged, Lug- & Wafer Type			
	Nominal Diameter:NPS½"~60" (DN15-DN1,500)			
	API600&6D : CLASS 150~CLASS 2,500 (PN16~PN420)			
	API 6A : 2,000PSI~15,000PSI			
	STRAINERS / STEAM TRAPS			
	SIGHT GLASSES			
	FLAME ARRESTORS			
FILTERS				
"Y" TYPE - "T" TYPE - TEMPORARY TYPE				
BASKET	A 105 - A 216 WCB - A 350 LF2			
	A 182 F1 - A 217 WC1 - A 352 LC1			
	A 182 F11 - A 217 WC6			
	A 182 F22 - A 217 WC9			
	A 182 F304 - A 351 CF8 - A 351 CF3			

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Application	Products	Quality
	A 182 F316 - A 351 CF8M - A 351 CF3M	
	SHEETS - COILS - PLATES-WIRE	
	PERFORATED SHEET -	
	MESH SHEET	
	A36	
	A572-50	
	A1018	
	A588	
	A606	
	A516-70	
	S235jr S275jr S355jr SS400 Q235 Q345 ASTM A36 carbon steel plates	
ASTM A240 /A480	AISI 304 - 316 -430	
	304 - 304H - 304L - 304	
	316 - 316L - 316	
	316L Mo + - 317L - 321 - 321H - 347 - 347H - 316Ti	
	S31254 - 904L	
	309S - 310S	
	Duplex: S32304 - S31803 - S32205- S32750 - S32760	
	N08825 - N08810 - N06625 - N04400 - N10276	
	410S	
	A410	
CARBON STEEL	A36, A572 GR 50, A588 (Corten type), 1045, A516 GR 70, A514 T-1	
	A285 GR C, A515 GR 70, ABS Grades, & AR360	
	S 275 JR+AR	

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	S 275 JO			
	S 355 J2+N			
	S235JRC, S355J2C, E335GC+S, C15, C35,			
	C40, C45, C45S acc. to EN 10277-2	ALLOY		
	COR-TEN A	N08825 / N08065		
	COR-TEN B	Alloy 904L		
		Alloy 660 / Alloy A286		
	SA 204 gr. C	Alloy 20		
	SA 387 gr.2 cl.2	Alloy 718		
	SA 387 gr.5 cl.2	Alloy 925		
	SA 387 gr.11 cl.2	Alloy C276		
	SA 387 gr.12 cl.2	Alloy 400		
	SA 387 gr.22 cl.2	Alloy K-500		
	EN 10028-2 16M03	Alloy 625		
		Alloy 200 / Alloy 201		
	P 265 GH	Alloy 926 / Alloy 367		
	P 355 GH			
	P 275 NH			
	P 355 NH			
	P 355 NL 1			
	ASME SA 516 GR60			
	ASME SA 516 GR70			
	16 Mo 3 – EN 10028/2 3 60			
	16 Mo 5 – UNI 5869			
	TITANIUM	TI GR. 4 (TI-CP4)		
	TI GR. 2 (TI-CP2)	ASTM B348		
	ASTM B348	ASTM F67		
	ASTM F67	ISO 5832-2		
	ISO 5832-2			
	CU/NI - ALUMINIUM BRASS			
	GALVANIZED - ALUMINIZED			

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Application	Products	Quality		
	BARS			
	ANGULAR- TUBULAR- ANGLE- RECTANGULAR			
	HOLLOW BAR			
	FLAT BARS - ROUND BARS - HEXAGON BARS - SQUARE BARS			
	COLD FORMED SECTIONS			
	COLD DRAWN - HOT ROLLED			
	PLASMA - MECHANICAL CUTTING - LASER CUTTING			
CARBON STEEL	S235JRC, S355J2C, E335GC+S, C15, C35, C40, C45, C45S acc. to EN 10277-2 080A15 acc. to BS 970 C10R, C15R acc. to EN 10277-4 C15E, C35E, C35R, C40E, C40R, C45E, C45R, CK45 acc. to EN 10277-5 Q235B, S20C, SS400, A36, S275JR			
STAINLESS STEEL	AISI 304 - 304L - 316 - 316L - 303 - 310 - 431 - 420 304H - 310S - 317L - 321H - 347H			
LOW CARBON STEEL	A182 GR. F11-F22-F5-F9-F91			
NICKEL ALLOY	ALLOY 20 Duplex 2205 - UNS S31803 C-276 254SMO ALLOY 200 ALLOY 400 ALLOY 600 ALLOY 625 Alloy 800 H/HP 825			



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<i>Application</i>	<i>Products</i>	<i>Quality</i>
	QUALITY CERTIFICATIONS:	
	ALL MATERIALS IS CERTIFIED UNI EN10204.3.1 ACCORDING TO PED FROM ISO 9001:2008 MANUFACTURERS	
	CERTIFICATE UNI EN 10204/3.2 IF REQUIRED ISSUED BY MAIN INTERNATIONAL THIRD PARTY	
	Hardness test	
	Tensile test	
	Impact test	
	Corrosion tests (pitting test, intergranular...)	
	Product chemical analysis	
	Metallographic analysis (microstructure evaluation, grain size...)	
	MATERIAL SOURCING COME FROM MAIN QUALIFIED SUPPLIERS IN ALL THE WORLD (ASIA - EUROPE - USA)	