

PIPE
BRANCH CONNECTIONS
VALVES
FLANGES
SKETS

AYRIK ENERGY

CATALOGUE OF PRODUCTS



PIPE



Flanges



Fittings



Gaskets



Branch Connections



Valves

PIPE
FLANGES
GASKETS
BRANCH CONNECTIONS



PIPE, CASING & TUBING

STAINLESS STEEL / CARBON STEEL



Type of Production : Seamless, ERW, EFW, SAW, SSAW, DSAW

Material & Grade :

API 5L, PSL1, PSL2	/ GR.B up to X80
API 5CT, PSL1, PSL2, PSL3	/ All Grade
ASTM A53 & ASTM A106	/ GR.B
ASTM A179 & ASTM A192	/ GR.C
ASTM A213 & ASTM A312	/ GR.304, 316, 321 (L-H)
ASTM A333 & ASTM A334	/ GR.6
ASTM A335	/ GR.P11-P22
ASTM A672	/ GR.C60, C65, C70
AWWA C200	/ GR. up to ST44

Dimension :

Tube Outside Diameters (OD)	6.0 – 114.0mm
Wall Thicknesses (WT)	0.8 – 15mm
Nominal Pipe Size (NPS)	1/8" – 120"
Schedule (SCH)	10 – XXS

Sure Service : NACE MR0175 / MR0103 / HIC & SSC

Coating :

- Normal or Heavy Bitumen Coating
- Polyethylene, Epoxy Resin Coating
- Sandblasting, Priming, Pickling, Oiling & etc.
- Hot Dip Galvanized Coating (ASTM A123)

Certificate : On request, certificate showing chemical analysis & mechanical test be issued (EN 10204/3.1B - EN 10201/3.1B - DIN 50049/3.1B)



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BUTT-WELDING FITTINGS

STAINLESS STEEL / CARBON STEEL



Elbow (45, 90, 180) LR, SR-Tee-Cap-CONC. & ECC. Reducer-Stub End

Standards : ASME B16.9 / B16.25 / B16.28 / NACE MR0175

Material : ASTM A234 WPB, WP1~WP22
ASTM A403 WP304, 316, 321 (L-H)
ASTM A420 WPL3, WPL6, WPL9
ASTM A860 WPHY X42~X70

Size : 1/2" up to 56"

Wall Thickness : SCH 10 to XXS Carbon Steel
SCH 5S to 80S Stainless Steel



FORGED FITTINGS

STAINLESS STEEL / CARBON STEEL

Elbow (45, 90)-Tee-Reducer-Coupling-Cap-Union-Bushing-Plug-Nipple Bosses-Thredolet-Weldolet-Sockolet-Latrolet-Elbolet-Nipolet

Standard : ASME B16.11, BS 3799, MSS SP44

Material : A105, A105N
A182 F304, F316, F321 (L-H)
A182 F1, F5, F9, F11, F22
A350 LF1, LF2, LF3

Size : 1/4" up to 4"

Class : 2000-3000-6000-9000



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VALVE

GATE / GLOBE / CHECK / STRAINER



Reference Standard :

API, BSI, ASME, ANSI, ASTM, DIN, MSS, NACE



GATE



GLOBE



CHECK



STRAINER

CAST STEEL

Structure :	Construction : Bolted, Union or Welded Bonnet, OS&Y End Connection : Flange Raised Face, Butt-Weld, RTJ Operation : Hand Wheel, Gear, Electric, Pneumatic &...
Size :	1/2" up to 56"
Pressure Rating :	ANSI 150 up to API 5000
Body :	ASTM : A216 GR.WCB, WCC ASTM : A217 GR.WC1-WC9 ASTM : A352 GR.LCB,LCC ASTM : A351 GR.CF3, CF3M, CF8, CF8M
Trim :	13%CR, 304, 316, F6, Stellite, Inconel, HF, Monel &...



Forged Gate Valve



Forged Globe Valve



Forged Check Valve



Forged Strainer Valve

FORGED STEEL VALVE

Structure :	Construction : Bolted, Union or Welded Bonnet, OS&Y End Connection : Flange Raised Face, Socket Weld, Threaded (NPT), Butt-Weld, RTJ Operation : Hand Wheel, Wrench Operation
Size :	1/4" up to 2"
Pressure Rating :	ANSI 800 up to 2500
Body :	ASTM : A105, A105N ASTM : A182 GR.304, 316, 321 (L-H) ASTM : A182 GR.F11, F22 ASTM : A350 GR.LF2
Trim :	F6, 304, 316, Stellite, Inconel, HF, F-51, Monel &...



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VALVE

BALL / BUTTERFLY / PLUG



Reference Standard :

API, BSI, ASME, ANSI, ASTM, DIN, MSS, NACE

BALL VALVE

Structure :	Construction : All Welded Body, Two & Three-pieces / Full & Reducer Bore End Connection : Flange Raised Face, RTJ, Butt-Weld &... Operation : Lever, Gear, Electric Pneumatic &...
Size :	1/2" up to 24"
Pressure Rating :	ANSI 150 up to API 5000
Body :	ASTM : A216 GR.WCB, WCC ASTM : A217 GR.WC1, WC5, WC6, WC9 ASTM : A352 GR.LCB, LCC &... ASTM : A351 GR.CF3, CF3M, CF8, CF8M
Trim :	13%CR, 304, 316, F6, Stellite, Inconel, HF, 347, Monel &...



BUTTERFLY VALVE

Size Range :	From 2" up to 60"
Pressure Rating :	PN10 to PN100 ANSI 125 to 600
Design Specification :	API 607, API 609, BS5155
End Connection :	Wafer Pattern, Semi-Lugged, Fully Lugged, Flanged
Operation :	Lever, Gear, Electric, Pneumatic
Body Materials :	Cast Iron GG25, Ductile Iron GGG40 Carbon Steel ASTM A216 GR.WCB, WCC Stainless Steel ASTM A351 GR.CF3, CF3M, CF8M Low Temperature Carbon Steel ASTM A352 GR.LCB, LCC Aluminium Bronze ASTM B148
Disc Materials :	GGG40 with Coated, 304, 316 (L-H), ASTM B148



PLUG VALVE

Structure :	Construction : Pressure Balance, Standard & Lubricated Type End Connection : Flange, Socket Weld, Butt-Weld or Screw Operation : Wrench & Gear Operated
Size :	1/2" up to 24"
Pressure Rating :	ANSI 150 up to API 5000
Body :	ASTM : A216 GR.WCB, WCC ASTM : A351 GR.CF3, CF3M, CF8, CF8M ASTM : A352 GR.LCB, LCC &... ASTM : A352 GR.LCB, LCC &...
Trim :	Steel, CF8, CF8M

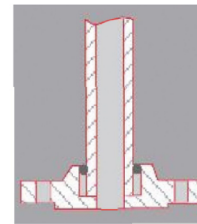


FLANGES

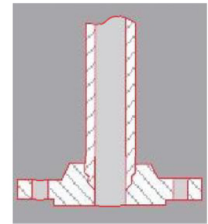
STAINLESS STEEL / CARBON STEEL



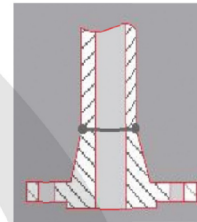
- Welding Neck
- Socket Weld
- Blind
- Threaded
- Slip-On
- Long Welding Neck
- Lap Joint
- Reducing
- Orifice
- Spectacles



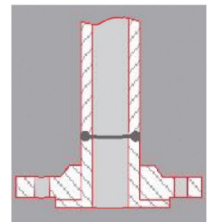
Socket Weld



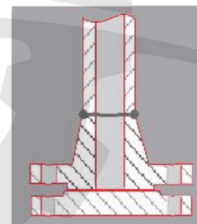
Threaded



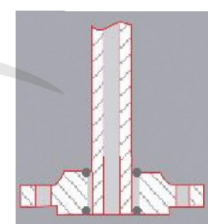
Welding Neck



Lap Joint



Blind



Slip On

Norm Ends :

F.F/R.F/RTJ

Dimension Standards :

ANSI B16.5
ANSI B16.36
ANSI B16.47 Series A MSS SP-44
ANSI B16.47 Series B API STD 605
BS3295

Material :

ASTM A105, A105N
ASTM A182 F304, F316, F321 (L-H)
ASTM A182 F1, F5, F9, F11, F22
ASTM A350 LF1, LF2, LF3
ASTM A694 F42, F46, F56, F60, F65
ST37 C22.8

Size :

1/2" up to 56"

Rating :

PN10 up to PN100 – Class 150 up to API 5000

Wall Thickness :

SCH 10 to XXS



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GASKET FOR FLANGES



Non-Metallic Type

Compressed Fiber, Aramid Fiber, Glass Fiber, Elastomer, Teflon (PTFE), Nitrile Rubber (NBR) & Graphite
ASME B16.21 Covers Types, Sizes, Materials, Dimensions & Tolerances for Non-Metallic Flat Gasket.

Semi-Metallic Type

Spiral Wound, Cam Profile & Metal-Reinforced
ASME B16.20 Covers Types, Sizes, Materials, Dimensions & Tolerances for Semi-Metallic Gasket.

Metallic Gasket

Ring Type Joint (RTJ)
R Type Oval & Octagonal
RX & BX for Pressures Over 69 MPa / 690 bar (10,000 Psi)
Size: 1/4" up to 56"



STUD BOLT, NUT & WASHER

Stud Bolt, Eye Bolt, U-bolt, Square Bolt, HEX. Bolt, Anchor Bolt, Expansion Bolt, & etc.

HEX. Nut, Tee Nut, Heavy HEX. Nut, Square Nut, Round Nut & etc.

Flat Washer, Spring, Lock, Special & Taper

Size : 3/8" up to 4"

Materials : ASTM A193 GR.B7, B6, B16, B8, B8M
ASTM A194 GR.2H, 2, 4, 7, 8, 8M
A320 GR.L7, B8 & etc.

Coating Type : Zinc Plating, Electro zinc Chromated
Hot Dip Galvanized, Black Oxide
Cadmium Plating, PTFE, Dacromet

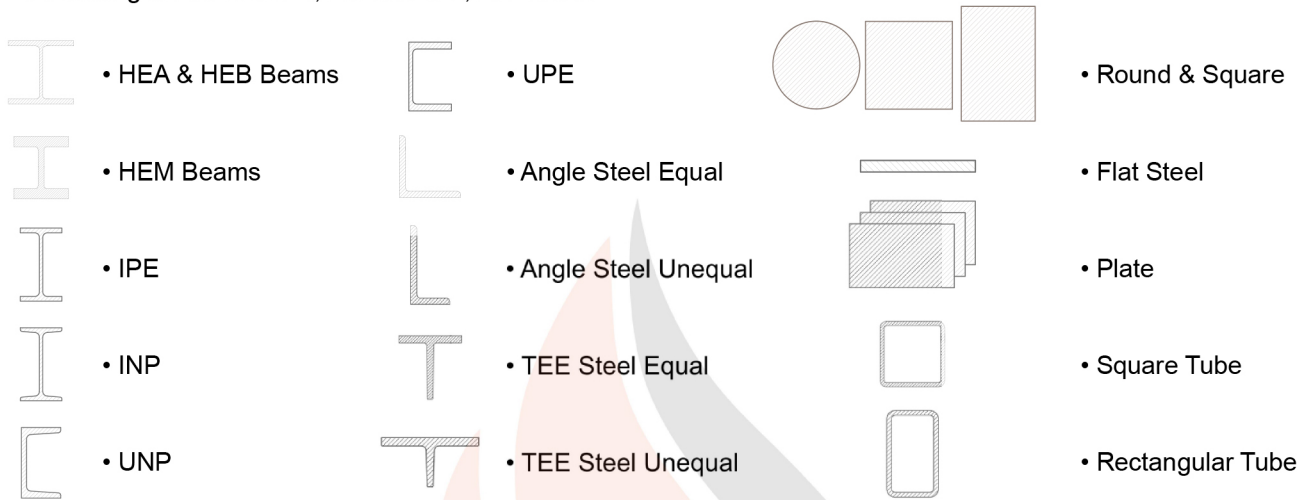


Structural steel grade designations

according to EN-10025 & EN-10027



According to EN-10027-1, EN 10025-2, EN-10025-4



Steel Group	
S	Structural Steel

Treatment Conditions	
M	Thermomechanical Rolling
N	Normalised Rolling

Mechanical Characteristics	
xxx	MIN. Yield Strength in MPa

for Example

EN 10025-2 : S 355 J2 + Z35 + M

Mechanical Characteristics			
Notch Toughness		TEMP. °C	
MIN. 27 J	MIN. 40 J		
JR	KR	20	
J0	K0	0	
J2	K2	-20	

Special Requirements	
Z15	MIN. 15% Reduction of Area
Z25	MIN. 25% Reduction of Area
Z35	MIN. 35% Reduction of Area

Physical Characteristics - Group 2	
L	For Low Temperatures
M	Thermomechanical Rolling
N	Normalised Rolling
W	Weathering

for Example

EN 10025-4 : S 355 ML

Structural Steel Grade Designations According to EN-10025 & EN-10027

The latest European standards incorporate numbers and letters which identify the properties of the various grades within the standard.

A typical specification example might be: -EN 10025 : S275J0H.

EN indicates that it holds the status of a European standard.

10025 indicates the number of the relevant standard.

Next is a Letter denoting the type of steel, followed by a number, being the characteristic Yield Strength in N/mm² or the specified Minimum Tensile Strength in N/mm².

'G' = Steel castings.

'S' = Structural steels.

The Number = Minimum yield strength for smallest thickness.

'P' = Pressure vessel Steels.

The Number = Minimum yield strength for smallest thickness.

'L' = Linepipe steels.

The Number = Minimum yield strength for smallest thickness.

'E' = Engineering steels.

The Number = Minimum yield strength for smallest thickness.

'B' = Steels for reinforcing concrete.

The Number = Characteristic yield strength.

'Y' = Steels for prestressing concrete.

The Number = Minimum tensile strength.

'R' = Steels for or in the form of Rails.

The Number = Minimum tensile strength.

'H' = Steels for cold rolled flat products of high strength steels for Cold Forming.

The Number = Characteristic yield strength.

'D' = Flat products for Cold forming (except 'H').

Followed by 'C' for cold rolled, 'D' for hot rolled products for direct cold forming and 'X' for non specified rolled condition.

'T' = Tinmill products.

'M' = Electrical steels.

'JR' Indicates that the Charpy impact test was conducted to 27 joules minimum at room temperature.

'J0' Indicates that the impact test was performed to 27 joules minimum at 0°C.

'J2' Indicates that the impact test was performed to 27 joules minimum at -20°C.

'K2' Indicates that the impact test was performed to 40 joules minimum at -20°C.

'G3' Indicates delivery conditions are at the manufacturer's discretion.

The last letter, if applicable:

'H' Indicates hollow section.

'L' Indicates qualities with specified minimum values of impact energy at a temp. of -50°C.

'M' Indicates thermomechanically rolled feedstock material.

'N' Indicates normalised or normalised rolled feedstock material.

PIPE BRANCH CONNECTIONS VALVES FLANGES



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BRANCH CONNECTIONS

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