



Commercial co./ Export & Import















Products in this category:

ALLOY STEEL , STAINLESS STEEL , CARBON STEEL. PIPE 1/2" ~ 84" SCH 10 ~ XXS SEMLESS / WELDED / ERW / SAW . A 106 GR.B /A333GR6, GR3,A335WP11, P22 , A312 TP304 /304L /316 / 321 SUMITOMO / TOBOS / TENARIS / INOXTECH / VALVES 1/2" ~ 56" 150 ~ 2500 , A216WCB , A105, A350LF2 , A352 LCB , LC3, A351 CF8, CF8M / CF3M , CF8C , A182 F304 /304L/ F316 / 316L / F321 /347 / A217WC6, WC9 / A182F11/ F22 / KITZ /CHERO /OMB/ VS / PV/ FITINGS 1 / 8 ~ 84 SCH 10 ~ XXS, 3000 , 6000 , 9000 A105 A234 WPB / WP11 / WP22/ A420 WPL6 / WPL3 /A350 LF2 , LF3 /A182 F304 / 304L / F316 / 316L/F321/F347/ F11/F22/ MEGA /IML /CHERO /BOTH WELL / ERNEFITING / BENKAN , NACE MR 0.175 , FLANGES 1/2" ~ 84" ,150 ~ 2500 A105 , A350 LF2/LF3 A182 F304 / 304L/ F316/316L/ F321/F5 / F9/ F11/ F22/ ULMA / MELESI / GALPERTI / ST / MSA / NACE MR.175 ALL MATERIAL WITH 3.1.B TEST REPORT CMTC

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شرکت آرکا ویژن به عنوان یکی از تامین کنندگان تجهیزات پالایشگاهی نفت، گاز و پتروشیمی با توجه به نیازهای پروژه خط مشی خود را در راستای رضایت کارفرمایان محترم قرار داده است. هدف شرکت آرکا ویژن جلب رضایت کارفرمایان با ارائه پیشنهادی رقابتی مناسب و با در نظر گرفتن فاکتور کیفیت، زمان و هزینه می باشد که در راستای نیل به این مهم و با توجه به داشتن تجارت جمعی و معاملات گروهی مدت دار در کشورهای آسیایی و اروپایی اقدام به انبار و جمع آوری Stock کامل از اقلام مورد تایید کارفرمایان اصلی پروژه های کشور نموده است.

شرکت آرکاویشن با اتکا به دانش فنی و داشتن تجربه مدعی ارائه بهترین اقلام INSTRUMENT, PIPING با استانداردهای جهانی و تاییدیه های معتبر از کارخانجات سازنده در کوتاهترین زمان و بهینه ترین قیمت می باشد.

آرکا ویژن ارائه دهنده ابزار دقیق، کنترل ولو، شیرآلات، لوله و اتصالات از معتبرترین برندهای دنیا نظیر لیست روبرو می باشد:

FORGED VALVES



Types

- Gate Valve, Globe Valve, Ball Valve
Check Valve (Lift, Swing, Ball), Strainer

Material Body

Carbon Steel

- A105 N / A350LF2 / A350LF3

Stainless Steel

- A182 F304 / 304L / 304H / 316 / 316L /
321 / 317 L

Alloy Steel

- A182 F5 / F9 / F11 / F22

Other

- A182 F20 / A182 F51 / A182 F53
A182 F44 / Monel / Inconel, 600, 625

Bonnet Types

- Bolted Bonnet / Welded Bonnet / Cryogenic

Trim Material

- F6 / CR13 to STL / CR13 to STL for Nace 3
CR13 to Hard / STL to STL / 04 / 316 /
TFE-HASTELLOY for CHLORINE
Monel / Inconel / Brass / Bronze /

Standard Connection

- Threaded / Socket Weld / Butt Weld / Nipples

Classes

- CL 800 / CL 900 / CL 1500 / CL 2500 / CL 4500

Size

- 1/4" ~ 2"

BALL VALVE



Material

- Ductile Iron ,Carbon steel, Stainless steel Alloy Steel and other austenic steel grades.

Classes

- 150 /300/600 /900/1500/2500
PN:10/16/25/40/64/100/160

Size

- 1/2" to 64"
DN :15 to 1600

| PART NAME | C. Steel Series | C. Steel Series | Cryogenic Steel Series | Anti - Suiphur Series | |
|-----------------------------|---|------------------------|------------------------|-----------------------|-----------|
| | | | | GB | NACE |
| Body,closeure | A216-WCB, | A351-CF8,CF8M,CF3,CF3M | A352-LCB,LCC | A261-WCB, | A351-CF8M |
| Ball | A216-WCB,+HCR | A351-CF8,CF8M,CF3,CF3M | A352-LCB,LCC | A261-WCB +HCR | A351-CF8M |
| Seat | PTFE;Sintered carbon Metal reinforced rubber unit | | | | |
| Stem | A182-F6a | A182-F304,316 | A182-F6a | 318 | A182-F316 |
| Seat retainer | A105.Zn | A182-F304,316 | A105.Zn | A105. Zn | A182-F316 |
| Stem pacing | PTFE; carbon fiber | | | | |
| Stem bushing Hurt washer | PTFE;Metal reinforced PTFE,Sintered Carbon fiber | | | | |
| Gland bushing | A182-F6a | A182-F304,316 | A182-F6a | A182-F6a | A182-F316 |
| Sping | 3yc-7 | | | | |
| Stud | A193-B7 | A193-B8,B8M | A320-L7 | A193-B7 | A163-B7 |
| Nut | A194-2H | A194-8M | A194-4 | A194-2H | A194-2H |
| Gland | A216-WCB,A105 | | | | |

GATE VALVES



| PART NAME | MATERIAL | | | | | | | | |
|----------------------|---|-----------|-----------|-----------|-----------|-----------|-----------|------------|------------|
| | WCB | LCB | WC6 | WC9 | C5 | CF8 | CF8M | CF3 | CF3M |
| Body | A216WCB | A352LCB | A217WC6 | A217WC9 | A217C5 | A351CF8 | A351 CF8M | A351 CF3 | A351 CF3M |
| Seat ring | A105 | A350 LF2 | A182 F304 | A182 F304 | A182 F304 | A182 F304 | A182 F316 | A182 F304L | A182 F316L |
| Wedge | A216WCB | A352LCB | A217WC6 | A217WC9 | A217C5 | A351CF8 | A351 CF8M | A351 CF3 | A351 CF3M |
| Steam | A182 F6 | A182 F304 | A182 F304 | A182 F304 | A182 F304 | A182 F304 | A182 F316 | A182 F304L | A182 F316L |
| Bonnet Bolt | A 193 B7 A320 L7 A193 B16 A193 B8 | | | | | | | | |
| Bonnet Nut | A 194 2H A194 4 A194 8 | | | | | | | | |
| Gasket | Solid Metal Serrated Gasket Stainless Steel And Graphite Sriral Wound Non Metallic Gasket | | | | | | | | |
| Bonnet | A216WCB | A352LCB | A217WC6 | A217WC9 | A217C5 | A351CF8 | A351 CF8M | A351CF3 | A351 CF3M |
| Gland | A182 F6 | A182 F304 | A182 F304 | A182 F304 | A182 F304 | A182 F304 | A182 F316 | A182 F316 | A182 F316L |
| Gland Flange | A352WCB | A352LCB | A217WC6 | A217WC9 | A217C5 | A351CF8 | A351 CF8M | A351CF3 | A351 CF3M |
| Pin | carbon Steel Or Alloy Steel | | | | | | | | |
| Gland Eyebolt | A 307 B A307 L7 A193 B7 A193 B8 | | | | | | | | |
| Handwheel | carbon Steel Or Ductile Iron | | | | | | | | |
| H.W.Lock Nut | carbon Steel Or Alloy Steel | | | | | | | | |
| Sealing face Overlay | 13 Cr And 18 Cr-8Ni Or HP(Co - CrA) | | | | | | | | |

Material

- Ductile Iron , Carbon steel, Stainless steel Alloy Steel and other austenic steel grades.

Classes

- 150 /300/600 /900/1500/2500 PN:10/16/25/40/64/100/160

Size

- 1/2" to 48" DN :15 to 1200

FORGED FITTINGS



Type

- Elbow (45 , 90) , Tee , Cross, Union Coupling, Half Coupling, Cap , Plugs Hexbushing , Reducing Coupling Hexagonalnipple , Bosses, Street Elbow Reducing Hexagonalnipple, Union Tee Union Elbow , Male Union, Swedge Nippel Weldolet , Thredolet , Sockolet, Latrolet Elbolet , Reducer Insert

Connection Type

- Threaded (NPT & BSP)
Socket Weld

Material Body

Carbon Steel

- A105 N / A350LF2 / A350LF3

Stainless Steel

- A182 F304 / 304L / 304H / 316 / 316L / 316 TI / 321

Alloy Steel

- A182 F5 / F9/ F11 / F22

Other

- Monel / Inconel , 600, 625

Classes

- 2000 , 3000 , 6000 , 9000

Size

- 1/8" ~ 6"

CHECK VALVES



| PART NAME | MATERIAL | | | | | | | | |
|----------------------|---|-----------|-----------|-----------|-----------|-----------|-----------|------------|------------|
| | WCB | LCB | WC6 | WC9 | C5 | CF8 | CF8M | CF3 | CF3M |
| Body | A216-WCB | A352LCB | A217WC6 | A217WC9 | A217C5 | A351CF8 | A351 CF8M | A351 CF3 | A351 CF3M |
| Seat ring | A105 | A350 LF2 | A182 F304 | A182 F304 | A182 F304 | A182 F304 | A182 F316 | A182 F304L | A182 F316L |
| Disc Nut | A182 F6 | A182 F304 | A182 F304 | A182 F304 | A182 F304 | A182 F304 | A182 | A182 F304L | A182 F316L |
| Washer | carbon Steel Or Alloy Steel Or Stainless Steel | | | | | | | | |
| Disc | A216WCB | A352WCB | A217WC6 | A217WC9 | A217C5 | A351 CF8 | A351 CF8M | A351 CF3 | A351 CF3M |
| Hing | A216WCB | A352WCB | A217WC6 | A217WC9 | A217C5 | A351 CF8 | A351 CF8M | A351 CF3 | A351 CF3M |
| Hing pin | A182 F6 | A182 F6 | A182 F304 | A182 F304 | A182 F304 | A182 F304 | A182 F316 | A182 F304L | A182 F316L |
| Yourk | A216WCB | A352LCB | A217WC6 | A217WC9 | A217C5 | A351 CF8 | A351 CF8M | A351 CF3 | A351 CF3M |
| Cover Bolt | A 193 B7 A307 L7 A193 B16 A193 B8 | | | | | | | | |
| Cover Nut | A 194 2H A194 4 A194 7 A194 8 | | | | | | | | |
| Gasket | Solid Metal Serrated Gasket Steel And Graphite Spiral Wound Non metallic Gasket | | | | | | | | |
| Cover | A216WCB | A352LCB | A217WC6 | A217WC9 | A217C5 | A351CF8 | A351 CF8M | A351CF3 | A351CF3M |
| Eye Screw | carbon Steel Or Alloy Steel | | | | | | | | |
| Sealing face Overlay | 13 Cr And 18 Cr-8Ni Or HF(Co - CrA) | | | | | | | | |

Type

- Swing/ Piston/ Wafer

Material

- Ductile Iron , Carbon steel, Stainless steel Alloy Steel and other austenitic steel grades.

Classes

- 150/300/600 /900/1500/2500
PN:10/16/25/40/64/100/160

Size

- 1/2" to 48"
DN :15 to 1200

FLANGES



Type

- Weldneck , Slipon , blind , Socket Weld Lap Joint ,Spectacles , Ring Joint , Orifcae long Weldneck, Reducer Flange & etc.

Carbon Steel

Standard & Grades

- ASTM A105 / A105 / A694 F42 / 46 / 52 / 56 / 60 / 65 / 70 / A350 LF3 / A350 LF2, etc.

Stainless Steel

Standard & Grades

- ASTM A182 F304 / 304L / 304H / 316 / 316L / 317 / 317L / 321 / 310 / 347 / 904L etc.

Alloy Steel

Standard & Grades

- A182 F1 / F5 / F9 / F11 / F22 / F91

Other

Standard & Grades

- Monel , Nickel, Inconel, Hastalloy, Copper Brass, Bronze, Titanium, Aluminium Zinc, Copper Nickel,Deck Flange & etc.

Classes

- PN6, 10, 16,20 , 25, 40, 64,100, 160 150 , 300 , 600 ,900, 1500 & API Flangs UP to 10000 PSI

Size

- 1/2" to 84"
DN15 to 2100



Spiral Wound Gaskets

Metal Winding Strip As Standard

- type 304/316L /309 /310/316Ti /317L/ 321/347/430
- ALLOY 20 MONEL/TITANIUM / TITANIUM NICKEL 200 INCONEL type 600.625/ HASTELLOY type B-2,3 , DUPLEX ZIRCONIUM/ TANTALUM /COPPER / PHOS- BRONZE

Filler Material:

Flexicarb flexible graphite/Thermiculite 835/ Flexite Super PTFE/ Mica/ Ceramic /Non-sintered PTFE

GUIDE RING MATERIALS STANDARD

Carbon Steel/Stainless Steel type 304/304L/ 316/316L/ 316Ti/310/321/347/410/ INCONEL 600/625/MONEL/TITANIUM NICKEL/INCOLOY type 800.825/ALLOY 20/ HASTELLOY type B-2.3/C276

Size

1/2" ~ 84"

Ring Joint Gaskets

Material

Soft Iron /Low Carbon Steel/4-6% Chrome 1/2% Moly Type Stainless Steel 304.316.347 .410 Titanium Grade 2 /Alloy 600 .625.800 .825 / Hastelloy/Alloy C276/SMO 254 /Zeron 100 / Super Duplex

Size

R 11~105 / RX 20 ~ 215 / BX 150 ~303



GASKETS



| Ring No. | PRESSURE CLASS RATINGS | | | | | | | Pitch | | Height of Ring | Approx. Distance Between |
|----------|------------------------|---------|-------|-------|-------|-----------|--------|----------|---------|----------------|--------------------------|
| | ANSI, BS & MSS | | | | | API (psi) | | Diameter | Width | Oval | Flanges |
| | 150 | 300/600 | 900 | 1500 | 2500 | 2000/3000 | 5000 | of Ring | of Ring | | |
| | Nominal Pipe Size | | | | | | | P | A | H | |
| R12 | - | - | 1/2 | 1/2 | - | - | - | 1.563 | 0.313 | 0.56 | - |
| R16* | - | 1 | 1 | 1 | 3/4 | - | - | 2 | 0.313 | 0.56 | - |
| R18* | - | 1 1/4 | 1 1/4 | 1 1/4 | 1 | - | - | 2.375 | 0.313 | 0.56 | - |
| R20* | - | 1 1/2 | 1 1/2 | 1 1/2 | - | - | - | 2.688 | 0.313 | 0.56 | 0.16 |
| R23* | - | 2 | - | - | 1 1/2 | 2 1/16 | - | 3.25 | 0.438 | 0.69 | 0.19 |
| R24* | - | - | 2 | 2 | - | 2 1/16 | 2 | 3.75 | 0.438 | 0.69 | 0.19 |
| R26* | - | 2 1/2 | - | - | - | 2 9/16 | - | 4 | 0.438 | 0.69 | 0.19 |
| R27 | - | - | 2 1/2 | 2 1/2 | - | 2 9/16 | 2 9/16 | 4.25 | 0.438 | 0.69 | 0.19 |
| R31* | - | 3 | 3 | - | - | 3 1/8 | - | 4.875 | 0.438 | 0.69 | 0.19 |
| R32 | - | - | - | - | 3 | - | - | 5 | 0.5 | 0.75 | - |
| R35* | - | - | - | 3 | - | - | 3 1/8 | 5.375 | 0.438 | 0.69 | 0.19 |
| R37* | - | 4 | 4 | - | - | 4 1/16 | - | 5.875 | 0.438 | 0.69 | 0.19 |
| R38 | - | - | - | - | 4 | - | - | 6.188 | 0.625 | 0.88 | - |
| R39* | - | - | - | 4 | - | - | 4 1/16 | 6.375 | 0.438 | 0.69 | 0.19 |
| R45* | - | 6 | 6 | - | - | 7 1/16 | - | 8.313 | 0.438 | 0.69 | 0.19 |
| R46 | - | - | - | 6 | - | - | 7 1/16 | 8.313 | 0.5 | 0.75 | 0.13 |
| R49* | - | 8 | 8 | - | - | 9 | - | 10.625 | 0.438 | 0.69 | 0.19 |
| R50 | - | - | - | 8 | - | - | 9 | 10.625 | 0.625 | 0.88 | 0.16 |
| R53 | - | 10 | 10 | - | - | 11 | - | 12.75 | 0.438 | 0.69 | 0.19 |
| R54 | - | - | - | 10 | - | - | 11 | 12.75 | 0.625 | 0.88 | 0.16 |
| R57 | - | 12 | 12 | - | - | 13 5/8 | - | 15 | 0.438 | 0.69 | 0.19 |
| R58 | - | - | - | 12 | - | - | - | 15 | 0.875 | 1.13 | - |
| R65 | - | 16 | 16 | - | - | 16 3/4 | - | 18.5 | 0.438 | 0.69 | 0.19 |
| R66 | - | - | - | - | - | 16 | - | 18.5 | 0.625 | 0.88 | 0.16 |
| R69 | - | 18 | 18 | - | - | - | - | 21 | 0.438 | 0.69 | 0.19 |
| R73 | - | 20 | 20 | - | - | 21 1/4 | - | 23 | 0.5 | 0.75 | 0.13 |

BUTTERFLY VALVE



Type

- Lug/ Flanges/ Wafer

Body Of Material

- Cast Iron : ASTM A126
- Ductile Iron :ASTM A536
- Carbon Steel: A216WCB /A352LCB-LCC/
- Cast Bronze :ASTM B584
- Stainless Steel : ASTM A351 CF8M~CF8/
- Duplex Steel

Disc Material

- Ductile Iron / A216WCB/CF8M / Aluminium Bronze /Duplex Steel

Stem Material

- Stainless Steel : A479-304/316 / A564-630
- Duplex ST / Steel

Seat Material

- Buna-N(NBR) / Buna-N(Abrasive Resistant) / Neoprene /EPDM/EPDM (Foodgrade) / Hypalon / Vinton / PTFE / S316+Graphite S316+Nitr

Classes

- 150 / 300/ 600
- PN6 / PN10 /PN16 /PN25 / PN 40

Size

- 1" to 56"

BUTTERFLY VALVE



| PRODUCT | FEATURES | | | | | | | | | | |
|-----------------------------|-------------------------------------|---------------------|---|-----|------------------|--------------------|----------------------------|----------|--|--|--|
| | Seat | liner | disk | PSI | bi-directic | body | flange | size | applications | options | |
| TM 1 | Towniprene Cartridge Style (bonded) | Towniprene (bonded) | Cast ductile iron with gum rubber coated | 150 | Yes throttleable | Cast ductile iron | Wafer | 4"to20" | Fine slurries, Salt water,dilute acids (145F) | Disk coating neoprene,Hypalon towniprene,SBR,SS or chlorobutyl | |
| TM 2 | Towniprene Cartridge Style (bonded) | Towniprene (bonded) | Cast ductile iron with gum rubber coated | 150 | Yes throttleable | Cast ductile iron | Lug | 4"to20" | Fine slurries, Salt water,dilute acids (145F) | Disk coating neoprene,Hypalon towniprene,SBR,SS or chlorobutyl | |
| TM 3 | EPDM rubber cartridge style | EPDM | 316SS | 150 | Yes throttleable | Cast ductile iron | Wafer | 2"to24" | Phosphate Limestone slurries,Waste or Salt water,Chemical (300F) | Nickel palated ductile iron disk | |
| TM 4 | EPDM rubber cartridge style | EPDM | 316SS | 150 | Yes throttleable | Cast ductile iron | Lug | 2"to24" | Phosphate Limestone slurries,Waste or Salt water,Chemical (300F) | Nickel palated ductile iron disk | |
| Series 120 | Towniprene | Towniprene | Cast ductile iron or carbon steel elastomer-Lined | 150 | Yes | Fab'd carbon steel | through-bolt | 18"to96" | Limestone slurries,Tailings ,Salt Water (145F) | Disk coating neoprene,Hypalon towniprene,SBR or chlorobutyl | |
| Series 12 | Towniprene snap-Lock | Towniprene | Solid Towniprene | 150 | Yes throttleable | Solid Towniprene | through-bolt | 3"to16" | General slurry, Chemical, Phosphate sand,Tailings(not for water service) | - | |
| Series 12 Full Flow through | Towniprene snap-Lock | Towniprene | Solid Towniprene | 150 | Yes throttleable | Solid Towniprene | Drilled flange | 3"to16" | General slurry, Chemical, Phosphate sand,Tailings(not for water service) | Same as Series 12 mated to(2) Towniprene-Lined steel reducers | |
| Series 60 | Towniprene snap-Lock | Towniprene | Lined with Towniprene or natural rubber or neoprene | 150 | Yes throttleable | Fab'd carbon steel | flanged ends (spool style) | 6"to48" | Chemical,benefication,dredging sand & gravel(145F) | - | |



BUTT WELD FITTINGS



Carbon Steel Butt Weld Fittings

Standard & Grades

- ASTM
- A234 / WPB
- A234 WPHY 42 / 46 / 52 / 56 / 60 / 65 / 70
- A420/ WPL3
- A420 WPL6 / MSS-SP-75

Stainless Steel Butt Weld Fittings

Standard & Grades

- ASTM
- A403
- WP 304 / 304L / 304H / 316 / 316L
- 317 / 317L / 321 / 310 / 347 / 904L

Alloy Steel Butt Weld Fittings

Standard & Grades

- ASTM
- A234
- WP1 / WP5 / WP9 / WP11 / WP22 / WP91

Other of butt Weld Fittings

- Monel Butt Weld Fitting
- Nickel Butt Weld Fitting
- Inconel Butt Weld Fitting
- Hastalloy Butt Weld Fitting
- Copper Butt Weld Fitting

Schedules

- Sch. 5S to Sch. 160S
- Sch. 10 S to Sch. XXS

Aluminium butt Weld Fitting

- Butt Weld Fitting Types
- Elbow 45°, 90°, 180° Long & Short
- Reducer Con & Ecc
- Return Bends
- Stub-Ends
- Tee
- Cap
- Cross

Butt Weld Fitting Size

- 1/2" to 84" (Seamless & Welded)

GLOBE VALVES



| PART NAME | MATERIAL | | | | | | | | |
|----------------------|--|-----------|-----------|-----------|-----------|-----------|-----------|------------|------------|
| | WCB | LCB | WC6 | WC9 | C5 | CF8 | CF8M | CF3 | CF3M |
| Body | A216WCB | A352LCB | A217WC6 | A217WC9 | A217C5 | A351CF8 | A351CF8M | A351CF3 | A351CF3M |
| Seat ring | A105 | A350LF2 | A182F304 | A182F304 | A182F304 | A182F304 | A182F316 | A182F304L | A182F316L |
| Disc | A105 | A350LF2 | A182F304 | A182F304 | A182F304 | A182F304 | A182F316 | A182F304L | A182F316L |
| Disc Nut | A182 F6 | A182 F304 | A182 F304 | A182 F304 | A182 F304 | A182 F304 | A182 F316 | A182 F304L | A182 F316L |
| Stem | A182 F6 | A182 F304 | A182 F304 | A182 F304 | A182 F304 | A182 F304 | A182 F316 | A182 F304L | A182 F316L |
| Gasket | Solid Metal Serrated Gasket Stainless Steel And Graphite Srial Wound Non Metallic Gasket | | | | | | | | |
| Backseat bushing | A182 F6 | A182 F6 | A182 F304 | A182 F304 | A182 F304 | A182 F304 | A182 F316 | A182 F304L | A182 F316L |
| Bonnet Bolt | A 193 B7 A320 L7 A193 B16 A193 B8 | | | | | | | | |
| Bonnet | A216WCB | A352LCB | A217WC6 | A217WC9 | A217C5 | A351CF8 | A351CF8M | A351CF3 | A351CF3M |
| Gland | A182 F6 | A182 F6 | A182 F304 | A182 F304 | A182 F304 | A182 F304 | A182 F316 | A182 F304L | A182 F316L |
| Gland Flange | A216WCB | A352LCB | A217WC6 | A217WC9 | A217C5 | A351CF8 | A351CF8M | A351CF3 | A351CF3M |
| Gland Eyebolt | A 307 B A307 L7 A193 B7 A193 B8 | | | | | | | | |
| Gland Nut | A 194 2H A194 4 A194 8 | | | | | | | | |
| Handwheel | carbon Steel Or Ductile Iron | | | | | | | | |
| Sealing face Overlay | 13 Cr And 18 Cr-8Ni Or HF(Co - CrA) | | | | | | | | |

Material

- Ductile Iron ,Carbon steel, Stainless steel
Alloy Steel and other austenic steel grades.

Classes

- 150/300/600 /900/1500/2500
PN:10/16/25/40/64/100/160

Size

- 1/2" to 48"
DN :15 to 1200

PIPES



Types

- Seamless , Welded , ERW
ERW , SAW , LSAW

Material

- Carbon Steel, Stainless Steel, Alloy Steel
and Other Austenic Steel Grades

Material Grades

- A106 GR B / A53 GR B / API 5L GR B
X42 , X52 , X 60 , X 65 , A333 GR1
GR3, GR6 /A335,GRWP1 ,WP 5 ,WP.9
WP11, WP22 SS A312 TP 304 /304L / 316
316L, F321, 317L ,310S, Duplex,Monel ...

Schedules

- S10 thru XXS – in Carbon Steel
Sch 5S thru Sch 160S – in Stainless Steel and
other Austenic Steel grades.

Size

- 1/4" ~84" – varying with material Grades.

ANSI PIPE SCHEDULE SI-UNIT (METRIC)

| Material Group | Common Name | Nominal Type | UNS | FORGING Spec | Coating Spec. Equivalent | DIN | DIN W.No | |
|------------------------------|--|----------------------------|----------------------------|--------------|----------------------------------|--|------------------|--------|
| Carbon Steel | CS | C-Mn-Fe | K03504 | A105N | A216-WCB | C22.8DIN 17243 | 1.0460 | |
| Low temperature Carbon steel | LTCS | C-Mn-Fe | K03011 | A350-LF2 | A352-LCA A352-LCB A352-LCC | TSSTE 355 DIN 18103 | 1.0566 | |
| Low temperature Alloy steel | Nickel Steel | 3.1/2Ni | K32025 | A350-LF3 | A352-LC3 | 10 Ni14 | 1.5637 | |
| Low Alloy steel | Maly Steel | C-1/2Mo | K12822 | A182-F1 | A217-WC1 | 15MO3 | 1.5415 | |
| | Alloy Steel Chromium alloy | 1.1/4Cr-1/2Mo | K11572 | A182-F11 d2 | A217-WC6 | 13CRM044 | 1.7335 | |
| | | 2.1/4Cr-1 Mo | K21590 | A182-F22 d3 | A217-WC9 | 10CRM0910 | 1.7380 | |
| | | 5Cr -1/2 Mo | K41545 | A182 -F5 | A217-C5 | 12CRM0195 | 1.7362 | |
| | | 9Cr -1Mo | K90941 | A182-F9 | A217-C12 | X 12 CrMo 91 | 1.7386 | |
| | | 9Cr-1Mo-V | | A182 - F91 | Z17-C12A | X 10 CrMoVnB 91 | 1.4903 | |
| Stainless Steel | Austenitic Steel 300 series S Steel | 304 :18Cr-8Ni | S30400 | A182-F304 | A351-CF8 | DIN X5Cr Ni 189 | 1.4301 | |
| | | 304L :18 Cr-8Ni | S30403 | A182-F304L | A351-CF3 | X 2 CrNi 1911 | 1.4306 | |
| | | 304 H: | S30409 | A182-F304H | - | n/a | n/a | |
| | | 316 :16Cr-12Ni-2Mo | S31600 | A182-F316 | A351-CF8M | DIN X5CrNiMo 1810 | 1.4401 | |
| | | 316 L :16Cr-12Ni-2Mo | S31603 | A182-F316L | A351-CF3M | X 5 CrNiMo 17 12 2 | 1.4404 | |
| | | 316H : | S31609 | A182-F316H | - | n/a | n/a | |
| | | 316Ti : | S31635 | A182-F316Ti | - | X 6 CrNiMoTi 17 12 2 | 1.4571 | |
| | | 321:18Cr-10Ni-Ti | S32100 | A182-F321 | - | X 6 CrNiTi 18 10 | 1.4541 | |
| | | 321H | S32109 | A182-F321H | - | n/a | n/a | |
| | | 347 :18Cr-10Ni-Cb(Nb) | S34700 | A182-F347 | A351-CF8C | DIN 8556 | 1.4550 | |
| | 347H | S34709 | A182-F347H | - | n/a | n/a | | |
| | 317L | S31703 | A182-F317L | A351-C63M | X2CrNiMo 18-16-4 | 1.4438 | | |
| | Alloy 20 | 28Ni-19Cr-Cu-Mo | N08020 | A182-F20 | A351-CN7M | DIN 1.4500 | 2.4660 | |
| | Duplex 2205 | 22Cr-5Ni-3Mo-N | S31803 S32205 | A182-F51 | A890-J92205 | X2CrNiMoN22-5-3 DIN 10088-1(95) | 1.4462 | |
| | Super Duplex 2507 | 25Cr-7Ni-4Mo-N | S32750 | A182-F53 | A351-CD4MCu A890 5A | X2CrNiMoN25-7-4 DIN 10088-1(95) | 1.4501 | |
| | Super AUSTENITIC 6mo | 20Cr-18Ni-6Mo | S31554 | A182-F44 | A351-CK3MCuN | X1CrNiMoCuN 20-18-7 DIN 10088-1(95) | 1.4547 | |
| | Nickel-iron alloy | Incoloy 800 | 33 Ni - 42 Fe- 21 Cr | N08800 | B564-N08800 | - | X10NiCrAlTi32-20 | 1.4876 |
| | | Incoloy 825 | 42 Ni - 21.5Cr -3Mo-2.3 Cu | N08825 | B564-N08825 | A494-CU5McuC | DIN 17744 | 2.4858 |
| | Nickel | Nickel | 99/95Ni | N02200 | B160-N02200(bar) | A494-CZ-100 | NW2200 | 1.7740 |
| | Nickel- Copper | Monel 400 | 67Ni -30Cu | N04400 | B564-N04400 | A494-m35-1 | DIN 17730 | 2.4360 |
| Monel 500 | | - | N08825 | B564-N05500 | - | - | 2.4375 | |
| Nickel-Alloy | 904L | - | N08904 | 904L | n/a | Z2 NCDU 25-20 | 1.4539 | |
| | Inconel 600 | 72Ni -15 Cr- 8Fe | N06600 | B564-N06600 | A494-CY40 | DIN 17742 | 2.4816 | |
| Nickel Superalloys | Inconel 625 | 60Ni-22 Cr - 9 Mo - 3.5 Cb | N06625 | B564-N06625* | A494-CW-6MC | - | 2.4856 | |
| | Hastelloy C-276 | 54Ni- 15Cr -16Mo | N10276 | B564-N10276* | A494-CW-2M | NiMo 16 Cr 15W | 2.4819 | |
| Titanium | Titanium | 98Ti | R50400 | B381-Gr2 | B367-C2 | Ti 2 | 3.7035 | |

| Nominal Pipe Size inches | OD mm | 10 | 20 | 30 | STD | 40 | 60 | xs | 80 | 100 | 120 | 140 | 160 | xxs | 5S | 10S | 40S | 80S | |
|--------------------------|-------|----|----|----|---------------|---------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|---------------|---------------|----------------|---------------|
| 1/8 | 10.3 | - | - | - | 1.73 0.37 | 1.73 0.37 | - | 2.41 0.47 | 2.41 0.47 | - | - | - | - | - | - | - | - | - | |
| 1/4 | 13.7 | - | - | - | 2.24 0.63 | 2.24 0.63 | - | 3.02 0.8 | 3.02 0.8 | - | - | - | - | - | - | - | 1.65 0.51 | 2.24 0.64 | 3.02 0.82 |
| 3/8 | 17.1 | - | - | - | 2.31 0.84 | 2.31 0.84 | - | 3.2 1.1 | 3.2 1.1 | - | - | - | - | - | - | - | 1.65 0.64 | 2.31 0.74 | 3.2 1.12 |
| 1/2 | 21.3 | - | - | - | 2.77 1.27 | 2.77 1.27 | - | 3.73 1.62 | 3.73 1.62 | - | - | - | 4.78 1.95 | 7.47 2.55 | 1.65 0.82 | 2.11 1.01 | 2.77 1.3 | 3.73 1.65 | |
| 3/4 | 26.7 | - | - | - | 2.87 1.69 | 2.87 1.69 | - | 3.91 2.2 | 3.91 2.2 | - | - | - | 5.76 2.9 | 7.82 3.64 | 1.65 1.04 | 2.11 1.31 | 2.87 1.71 | 3.91 2.24 | |
| 1 | 33.4 | - | - | - | 3.38 2.5 | 3.38 2.5 | - | 4.55 3.24 | 4.55 3.24 | - | - | - | 6.35 4.24 | 9.09 5.45 | 1.65 1.33 | 2.11 1.33 | 2.77 2.11 | 3.73 2.55 | |
| 1.25 | 42.2 | - | - | - | 3.56 3.39 | 3.56 3.39 | - | 4.85 4.47 | 4.85 4.47 | - | - | - | 6.35 5.61 | 9.7 7.77 | 1.65 1.68 | 2.11 2.76 | 3.56 3.46 | 4.85 4.56 | |
| 1.5 | 48.3 | - | - | - | 3.68 4.05 | 3.68 4.05 | - | 5.08 5.41 | 5.08 5.41 | - | - | - | 7.14 7.25 | 10.15 9.56 | 1.65 1.95 | 2.11 3.17 | 3.68 4.13 | 5.08 5.51 | |
| 2 | 60.3 | - | - | - | 3.91 5.44 | 3.91 5.44 | - | 5.54 7.48 | 5.54 7.48 | - | - | - | 8.74 11.11 | 11.07 13.44 | 1.65 2.44 | 2.11 4.01 | 3.91 5.54 | 5.54 7.63 | |
| 2.5 | 73 | - | - | - | 5.16 8.63 | 5.16 8.63 | - | 7.01 11.41 | 7.01 11.41 | - | - | - | 9.53 14.92 | 14.02 20.39 | 2.11 3.77 | 3.05 5.36 | 5.16 8.81 | 7.01 19.64 | |
| 3 | 88.9 | - | - | - | 5.49 11.29 | 5.49 11.29 | - | 7.62 15.27 | 7.62 15.27 | - | - | - | 11.13 21.35 | 15.24 27.68 | 2.11 4.6 | 3.05 6.59 | 5.49 11.82 | 7.62 22.2 | |
| 3.5 | 102 | - | - | - | 5.74 13.57 | 5.74 13.57 | - | 8.08 18.63 | 8.08 18.63 | - | - | - | - | - | 2.11 5.29 | 3.05 7.55 | 5.74 13.8 | 8.08 21.01 | |
| 4 | 114 | - | - | - | 6.02 16.07 | 6.02 16.07 | - | 8.56 22.32 | 8.56 22.32 | - | 11.13 28.32 | - | 13.49 33.54 | 17.12 41.03 | 2.11 5.96 | 3.05 8.52 | 6.02 16.4 | 8.56 22.77 | |
| 5 | 141 | - | - | - | 6.55 21.77 | 6.55 21.77 | - | 9.53 30.97 | 9.53 30.97 | - | 12.7 40.28 | - | 15.88 49.11 | 19.05 57.43 | 2.77 9.67 | 3.4 11.82 | 6.55 22.2 | 9.53 31.59 | |
| 6 | 168 | - | - | - | 7.11 28.26 | 7.11 28.26 | - | 10.97 42.56 | 10.97 42.56 | - | 14.27 54.2 | - | 18.2 67.56 | 21.95 79.22 | 2.77 11.55 | 3.4 14.13 | 7.11 28.8 | 10.97 43.42 | |
| 8 | 219 | - | - | - | 6.35 41.77 | 7.04 51.03 | 8.18 60.31 | 8.18 60.31 | 10.31 81.55 | 12.7 96.01 | 15.09 114.8 | 18.26 133.1 | 20.62 155.2 | 23.01 112.3 | 22.23 155.2 | 2.77 23.09 | 3.6 28.34 | 8.18 61.5 | 12.7 83.19 |
| 10 | 273 | - | - | - | 6.35 41.77 | 7.8 51.03 | 9.27 60.31 | 9.27 60.31 | 12.7 81.55 | 15.09 96.01 | 18.26 114.8 | 21.44 133.1 | 25.4 155.2 | 28.58 112.3 | 25.4 155.2 | 3.4 23.09 | 4.19 28.34 | 9.27 61.5 | 12.7 83.19 |
| 12 | 324 | - | - | - | 6.35 49.73 | 8.38 65.2 | 9.53 73.88 | 9.53 73.88 | 10.31 97.46 | 14.27 109 | 17.48 132.1 | 21.44 159.9 | 25.4 187 | 28.58 208.1 | 25.4 187 | 3.96 31.89 | 4.57 36.73 | 9.53 75.2 | 12.7 99.43 |
| 14 | 356 | - | - | - | 6.35 54.69 | 7.92 67.9 | 9.53 81.33 | 9.53 81.33 | 11.13 94.55 | 15.09 126.7 | 19.05 158.1 | 23.83 195 | 27.79 244.7 | 31.75 253.6 | 25.4 187 | 3.96 35.06 | 4.78 42.14 | 12.7 281.7 | |
| 16 | 406 | - | - | - | 6.35 62.64 | 7.92 77.83 | 9.53 93.27 | 9.53 93.27 | 12.7 123.3 | 16.66 160.1 | 21.44 162.3 | 26.19 203.5 | 30.96 245.6 | 36.53 333.2 | 40.49 365.4 | - | 4.19 42.41 | 4.78 48.26 | 12.7 46.54 |
| 18 | 457 | - | - | - | 6.35 70.57 | 7.92 87.71 | 9.53 122.4 | 9.53 105.2 | 12.7 155.8 | 19.05 205.7 | 23.88 139.2 | 29.36 254.6 | 34.93 309.6 | 39.67 365.6 | 45.24 459.4 | - | 4.19 42.41 | 4.78 54.36 | 12.7 45.94 |
| 20 | 508 | - | - | - | 6.35 78.55 | 9.53 117.2 | 9.53 155.1 | 9.53 117.2 | 12.7 183.4 | 20.62 247.8 | 26.19 155.1 | 32.54 311.2 | 38.1 381.5 | 44.45 411.5 | 56.01 508.1 | - | 4.78 60.46 | 5.01 70 | 12.7 56.48 |
| 22 | 559 | - | - | - | 6.35 86.54 | 9.53 129.1 | 9.53 129.1 | - | 22.23 294.3 | 12.7 171.1 | 28.58 373.8 | 34.93 451.4 | 41.28 527 | 47.63 600.6 | 53.98 672.3 | - | 4.78 66.57 | 5.54 70.06 | 12.7 67.23 |
| 24 | 610 | - | - | - | 6.35 94.53 | 9.53 141.1 | 9.53 209.6 | 9.53 141.1 | 12.7 255.4 | 20.62 355.3 | 26.19 187.1 | 32.54 422.1 | 38.1 547.7 | 44.45 720.2 | 56.01 808.2 | - | 5.54 84.16 | 6.35 96.37 | 12.7 80.82 |
| 26 | 660 | - | - | - | 7.92 127.4 | 12.7 202.7 | 15.88 152.9 | 9.53 - | 12.7 - | 202.7 - | - | - | - | - | - | - | - | - | - |
| 28 | 711 | - | - | - | 7.92 137.3 | 12.7 218.7 | 15.88 271.2 | 9.53 164.9 | 12.7 - | 218.7 - | - | - | - | - | - | - | - | - | - |
| 30 | 762 | - | - | - | 7.92 147.3 | 12.7 234.7 | 15.88 292.2 | 9.53 176.8 | 12.7 - | 234.7 - | - | - | - | - | - | 6.35 120.7 | 7.92 150.4 | - | - |
| 32 | 813 | - | - | - | 7.92 157.2 | 12.7 250.6 | 15.88 312.2 | 9.53 188.8 | 17.48 342.9 | 12.7 - | 250.6 - | - | - | - | - | - | - | - | - |
| 34 | 864 | - | - | - | 7.92 167.2 | 12.7 266.6 | 15.88 332.1 | 9.53 200.3 | 17.48 364.9 | 12.7 - | 266.6 - | - | - | - | - | - | - | - | - |
| 36 | 914 | - | - | - | 7.92 177 | 12.7 282.3 | 15.88 351.7 | 9.53 212.6 | 19.05 420.4 | 12.7 - | 282.3 - | - | - | - | - | - | - | - | - |
| 38 | 965 | - | - | - | - | - | - | 9.53 244.5 | - | - | - | - | - | - | - | - | - | - | - |
| 40 | 1016 | - | - | - | - | - | - | 9.53 236.5 | - | - | - | - | - | - | - | - | - | - | - |
| 42 | 1067 | - | - | - | - | - | - | 9.53 248.5 | - | - | - | - | - | - | - | - | - | - | - |
| 44 | 1118 | - | - | - | - | - | - | 9.53 260.5 | - | - | - | - | - | - | - | - | - | - | - |
| 46 | 1168 | - | - | - | - | - | - | 9.53 272.3 | - | - | - | - | - | - | - | - | - | - | - |
| 48 | 1219 | - | - | - | - | - | - | 9.53 284.2 | - | - | - | - | - | - | - | - | - | - | - |

reference list

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