

STEAM TRAPS

IS 12268

Material of Construction :

CI | CA 15 | CF 8 | CF8M | A 105 | F11 | F22

End Connections :

Screwed | Socket | Flanged End

Type :

Thermo Dynamic (TD-3) | Horizontal Float Type |

Vertical Inverted Bucket Type |

Horizontal Inverted Bucket Type

Pressure Rating :

ASA 800# | 1500# | 2500#

Max Inlet Pressure :

10 Kg/Cm² | 30 Kg/Cm² | 248 Kg/Cm² AT 204° C

Size Range :

15mm to 25mm - TD-3

15mm to 50mm - Float & Bucket type



FABRICATED VALVE RANGE

•Butterfly Valves

Size Range :

40mm to 2000mm

•Strainer

-Pot Type

-Basket Type

-“T” Type

-Duplex Type

Size Range :

15mm to 1200mm



STAINLESS STEEL - GATE | GLOBE | NRV

SCREWED END

Material of Construction :

SS 304 | SS 316 | SS 304L | SS 316L

End Connections :

Screwed to BSP | BSPT | NPT |

Socketweld to ANSI B 16.11

Pressure Rating :

Body : 425 Psig (30 Kg/Cm²)

Seat : 300 Psig (21 Kg/Cm²)

Size Range :

15mm to 50mm



GUN METAL | BRONZE VALVES

• Gate Valve as per IS 778 CL-I

• Globe Valve as per IS 778 CL-I

• Horizontal Non Return Valve

as per IS 778 CL-I

• Steam Stop Valve



TUBE GLASS & DOUBLE WINDOW SIGHT GLASS

MARCK - 019

Material of Construction :

CS | SS

End Connections :

Flanged

Pressure Rating :

ASA 150#

Size Range :

15mm to 150mm



FLANGES & FITTINGS

IBR APPROVED

Material of Construction :

MS | A105 | SS 304 | SS 316 | SS 304L | SS 316L

Rating :

ASA 150# to 2500# | ND-16 | ND-40 |

BS 10 TABLE E | D | F | K | J

Type :

SORF | Blind | WNRF Etc.

Size Range :

15mm to 2000mm

FITTINGS : IBR APPROVED

• Carbon Steel (MS) Seamless Bends

• Long Radius

• MS (Carbon Steel) Elbows

• Long Radius

• MS (Carbon Steel) Concentric Reducers



The Design & Technical Data Furnished Here Are Subject To Change Without Intimation Due To Continuous Product Development.



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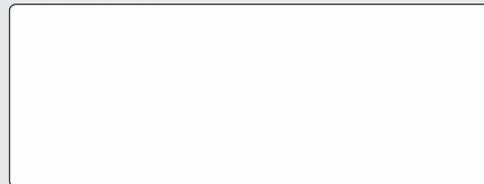
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Hawa Engineers Ltd.



THE COMPREHENSIVE VALVE RANGE

HAWA ENGINEERS LTD. Is the leading industrial valve manufacturer in India with "MARCK" Brand and has fulfilled all the qualifications to manufacture a wide range of industrial valves for the most severe and demanding service of the Oil, Gas, Refinery, Chemical, Marine, Mining, Power and Pipeline Industries. 'MARCK' products includes: Gate, Globe, Check, Butterfly and Ball Valves in all sizes, class rating and materials.

All Valves are manufactured to fully comply with ASTM, ANSI, API, BS & DIN Standards. Company facilities include our State of Art Valve Factory, In-house Foundry and the Technical Research Center. We have all the required Latest Machinery and Testing Equipments and are capable of manufacturing valves up to size 50" and ANSI Class 2500 lbs. We are ISO 9001:2008, ISO 14000:2004 and ISO 18000:2007 Certified Company. Further, have fire test certificates as per API-6FA & API-6FD.

We have been approved by many project consultants and have proved our ability under prestigious inspection authorities like **EIL, MECON, AVANT GARDE, BUREAU VERITAS, PDIL, SGS, TATA, LLOYD'S REGISTER, NTPC, M. N. DASTUR CO, RITES, BHEL, BAXCOUNSEL, INTERTEK, NPCIL, TDC, DGQA** and many more.

CONSULTANT'S APPROVAL



GATE VALVES | KNIFE EDGE GATE VALVES

API 600 | API 6D | MSS SP-81

Material Of Construction :
CI | CS | SS | AS | WCB | LCB | WC6 | WC9

End Connections :
Screwed to BSP | BSPT | NPT | Socket Weld | Butt Weld Ends | Flanged Ends | Ring Type Joints (RTJ)

Pressure Rating :
ASA 125# | 150# | 300# | 600# | 900# | 1500# | 2500#

Operation :
Manual | Gear and Electrical Actuated
Size Range :
25mm to 1000mm



BALL VALVES – FLOATING & TRUNION MOUNTED

API-6D | BS-5351 | BS-5159 | ISO 17292

Material Of Construction :
CI | CS | SS | AS | A 105 | CF3 | CF3M | CN7M

Seat & Seals :
PTFE | Reinforced PTFE | Buna-N | Graphoil | Graphite

End Connections :
Screwed to BSPT | NPT | Socket Weld | Butt Weld with extended Nipple | Flanged Ends | Butt Weld Ends

Pressure Rating :
ASA 150# | 300# | 600# | 800# | 900# | 1500# | 2500#

Type :
Single Pc | Two Pc | Three Pc | 3 Way | 4 Way

Operation :
Lever | Gear | Electrical Actuator | Pneumatic Rotary Actuator

Size Range :
6mm to 750mm



GLOBE VALVES

BS-1873 | ND-16 | ND-40

Material Of Construction :
CI | CS | SS | AS | LCB | WC6 | WC9

End Connections :
Screwed to BSP | BSPT | NPT | Socket Weld | Butt Weld Ends | Flanged Ends | Ring Type Joints (RTJ)

Pressure Rating :
ASA 125# | 150# | 300# | 600# | 900# | 1500# | 2500# | PN 16 | PN 40 | PN 64

Operation :
Manual | Gear and Electrical Actuated
Size Range :
15mm to 1000mm



BUTTERFLY VALVES

API 609 | BS-5155 | AWWA C504 | IS 13095

Material Of Construction :
CI | DI | CS | SS

Seat & Seals :
Nitrile | Neoprene | PTFE | Viton | Hypalon | Silicon

End Connections :
Wafer Type | Double Flanged | Lug End

Pressure Rating :
ASA 125# | 150# | PN 1.0 | PN 1.6 | PN 20 | PN 2.5

Type :
Centric Disc Design | Offset Disc Design | Triple Offset Disc Design | High Performance

Operation :
Lever | Gear | Electrical Actuator | Pneumatic Rotary Actuator

Size Range :
40mm to 2000mm



NON RETURN VALVES

BS-1868 | API 6D

Material Of Construction :
CI | CS | SS | AS | LCB | WC6 | WC9

End Connections :
Screwed to BSP | BSPT | NPT | Socket Weld | Butt Weld Ends | Flanged Ends | Ring Type Joints (RTJ)

Pressure Rating :
ASA 125# | 150# | 300# | 600# | 900# | 1500# | 2500# | PN 16 | PN 40 | PN 64

Type :
Swing | Lift-Up

Size Range :
15mm to 1000mm



WAFER | DUAL PLATE CHECK VALVES

API 6D | API 594

Material Of Construction :
CI | CS | SS

End Connections :
Wafer Type | Flanged End

Pressure Rating :
ASA 125# | 150# | 300#

Size Range :
25mm to 900mm



CAST IRON VALVES – GATE | GLOBE | SLUICE & REFLUX VALVES

API 600 | API 6D | MSS SP-81

Material Of Construction :
Body : Cast Iron | C.S. with G.M. or S.S. Internals

End Connections :
Flanged Ends

Pressure Rating :
Rating : PN 0.6 | PN 1.0 | PN 1.6
Body : 0.9 Mpa | 1.5 Mpa | 2.4 Mpa
Seat : 0.6 Mpa | 1.0 Mpa | 1.6 Mpa

Type :
Inside Screw (Non Rising Spindle) for Sluice | Outside Screw (Rising Spindle) for Gate & Glob

Size Range :
50mm to 1000mm



STRAINERS

MARCK 014

Material of Construction :
Cast Iron | Cast Steel | Stainless Steel

End Connections :
Flanged | Screwed End

Type :
"Y" Type | "T" Type | Pot Type | Basket Type

Pressure Rating :
ASA 150# | 300# | PN 40

Size Range :
15mm to 800mm



PFA LINED VALVES

API-599 | BS-5158 | BS-5351 | BS-5159 | BS-5155

Material of Construction :
Ductile Iron | CS

Type :
Butterfly | Plug | Ball | Ball Check & Diaphragm Valves

Lining :
FEP | PFA | PTFE | PVDF Lined Valves

Ends :
Wafer & Lugged End Type for Butterfly & Flanged End

Size Range :
25mm to 200mm



PLUG VALVES

BS-5158 | BS- 5353 | API- 599 | API 6D

Material of Construction :
CI | DI | CS | SS

Type :
PTFE Sleeved | Lubricated | Non-Lubricated

End Connections :
Screwed | Flanged | But Weld

Pressure Rating :
Class 150#

Size Range :
25mm to 200mm



FORGED STEEL VALVES - GATE, GLOBE, CHECK | "T" - TYPE STRAINERS

API 602 | BS-5352 | MARCK-024

Material of Construction :
ASTM A 105 | F304 | F304L | F316 | F316L | F5 | F9 | F11 | F22

End Connections :
Socketweld | Screwed | Butt Weld Flanged End

Type :
Straight Pattern | "Y" Type Pattern

Pressure Rating :
ASA 800# | 1500# | 2500#

Size Range :
15mm to 50mm



DIAPHRAGM VALVES

BS-5156

Material of Construction :
CI | CS | SS

Lining Options :
Rubber Lined | Glass Lined | Unlined

End Connections :
Screwed | Flanged End

Pressure Rating :
PN 10 | PN 16 | 150# Class

Size Range :
25mm to 400mm



AIR VALVES

MARK-016

Material of Construction :
CI | CS | GM

End Connections :
Screwed | Flanged End

Type :
Single Acting | Double Acting | Kinetic Type Isolating

Pressure Rating :
ASA 125# | 150# | 300# | PN 1.6

Size Range :
25mm to 600mm



SAFETY VALVE

API 526

Material of Construction :
CS | SS

End Connections :
Flanged End

Type :
Ordinary Lift Type | High Lift Type | Full Lift Type

Pressure Rating :
ASA 150# | 300# | PN 40

Size Range :
25mm to 200mm

