

# ARPAN ENGINEERING CORPORATION



OUR BRANDS



AUTHORISED DEALER



# AEC VALVES

## Piston Valve



UMN / USN

KVN

**Size Range** 15 mm - 200 mm  
**MOC** A105 / CS - ASTM A216 Gr. WCB / SS316 - A351 Gr. CF8M  
**End Conn** Screwed / SW / Flange 150# / 300# / PN-40  
**PMO/TMO** 55 Kg/cm<sup>2</sup> / 425°C

## Bellow Seal Valve

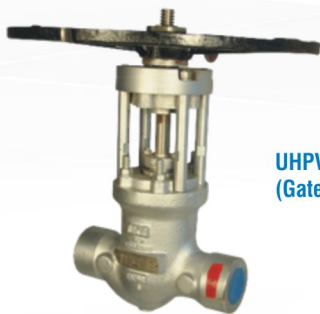


Gate Valve

Globe Valve

**Size Range** 15 mm - 300 mm  
**MOC** A105 / CS-ASTM A216 Gr. WCB  
**End Conn** Screwed / Socket Weld / Flange 150# / 300#  
**Design** "T" Type & "Y" Type Design

## High Pressure Valve



UHPV  
(Gate & Globe)

**Size Range** 15 mm - 250 mm  
**MOC** A105 / A216 Gr. WCB / F11 / F22 / A217 Gr. WC6 / WC9  
**End Conn** Socket Weld / Butt Weld  
**Pressure Rating** 1500# / 2500#  
**Temp. Range** CS upto 425°C & Alloy Steel upto 593°C

## Pressure Reducing Valve



Self Actuated  
Pressure  
Reducing Valve

**Size Range** 25 NB to 100 NB  
**MOC** ASTM A216 Gr. WCB & Internals - SS316  
**End Conn** Flange End to ASME B16.5  
**Pressure Rating** 150# / 300#  
**Max Diff Pressure** 25 Bar(g)  
**Max Temperature** Upto 350°C

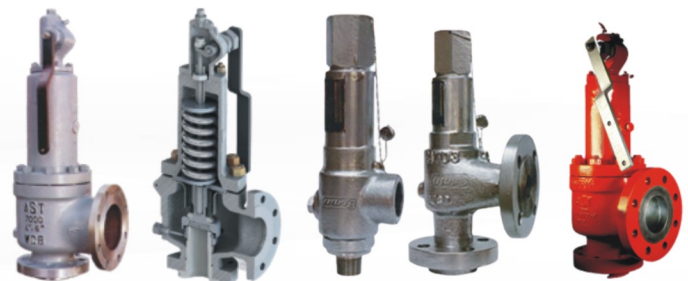
## Control Valve



CV-8407  
Globe Type  
Control Valve

**Size Range** 1/2" to 10"  
**MOC** ASTM A216 Gr. WCB  
**End Conn** Flange End to ASME B16.5  
**Pressure Rating** 150# / 300# / 600#  
**Temperature Range** 196°C to 538°C

## Safety Valve



**SMU-7000**  
**Inlet** 1" to 8"  
**Outlet** 2" to 12"  
**Ends** Flange  
**Orifice** "D" to "T"  
**Set Pressure** 0.4 - 414 Bar  
**Temperature** -267°C to 750°C

**SMF-7000**  
**Inlet** 1/2" to 1"  
**Outlet** 1" to 1.5"  
**Ends** Scr BSP/NPT  
**Orifice** "b" to "f"  
**Set Pressure** 0.8 - 400 Bar  
**Temperature** -200°C to 400°C

**SMS-7100**  
**Inlet** 1.5" to 8"  
**Outlet** 2" to 10"  
**Ends** Flange  
**Orifice** "D" to "T"  
**Set Pressure** upto 153 Bar G  
**Temperature** upto 566°C

## Thermodynamic Steam Trap



UTD-55

UTD-62

UTD-120

**Size Range** 15 mm, 20 mm, 25 mm  
**MOC** ASTM A743 Gr. CA40 / AISI 420 (UTD55),  
 A217 Gr. WC6 (UTD62), A182 Gr. F22 (UTD120)  
**End Conn** Screwed / Socket Weld / Flange End  
**PMO** 55 Bar (UTD55), 100 Bar (UTD 62) & 250 Bar (UTD120)  
**TMO** 425°C (UTD55) & 550°C. (UTD62/120)  
**Principle** Difference in Velocity of Steam and Condensate

## Thermostatic Steam Trap



UTST

BI-METALIC TRAP

**Size Range** 15 mm, 20 mm, 25 mm  
**MOC** ASTM A105  
**End Conn** Screwed / Socket Weld  
**PMO**  $\Delta P_{max}$  31 Bar  
**TMO** 425°C Sub-cool Temp. 10 to 15°C  
**Principle** Temperature Difference of Steam and Condensate  
**BiMetallic Trap** Upto 40°C Subcooling, PMO upto 215 Bar

## Ball Float Trap



UFT14-CI

UFT14-CS

**Size Range** 15 mm - 50 mm  
**MOC** CI-IS210 FG 260 / CS- ASTM A216 Gr. WCB  
**End Conn** Screwed / Socket Weld / Flange 150# / 300#  
**PMO / TMO** CI - 13 Bar & 220°C / CS - 32 Bar & 425°C  
**Principle** Density Difference of Steam and Condensate

## Inverted Bucket Trap



UIBT - 28US

UIBT

**Size Range** 15 mm, 20 mm, 25 mm  
**MOC** CS - ASTM A216 Gr. WCB / SS304 - ASTM A351 Gr. CF8  
**End Conn** Screwed / Socket Weld / Flange End  
**PMO/TMO** 69 Bar / 425°C  
**Orientation** Vertical / Horizontal  
**Principle** Density Difference of Steam and Condensate

## ITVS



ITVS+UTD

ITVS+Bimetallic

ITVS+IBT

A Compact Combination of Valves and Trap Performing all the functions of steam trap module, permitting discharge of condensate as well as maintenance of traps as and when required.

**Size Range** 15 mm, 20 mm, 25 mm  
**End Conn** Screwed / Socket Weld / Flange End

## Clean Stem Trap



UCT

**Size Range** 15 mm, 20 mm, 25 mm  
**MOC** ASTM A276 SS316L  
**End Conn** Tri Clover (Sanitary) Clamps  
**PMO/TMO** 10 Bar(g) @ 140°C / 165°C @ 6 Bar (g)  
**Discharge Capacity** 1300 kg/hr @ 5 Bar (g)  $\Delta P$   
**Design** Balanced Pressure Design with SS316L Bellows

## Moisture Separator



UMS

**Size Range** 25 NB to 200 NB  
**MOC** CS-ASTM A216 Gr. WCB  
**End Conn.** Flange End ASA 150# / 300#  
**PMO / TMO** 44 Bar / 425°C  
**Design** Multi Baffle Type Design  
**Installation** Horizontal

## Gauge Glass



Reflex Glass

Transparent Glass

**Reflex Glass** Works on the principle of Total Internal Refraction of light through the Reflex glass having grooves giving clear Black and white indication of the level in the vessel.

**Klinger Transparent Glasses** are also manufactured form "extra-hard" borosilicate glass. The surfaces on both side are finely ground and polished. Transparent glasses should always be chosen for contaminated, viscous or corrosive media

## Gasket Sheets



CAF Sheet

NCAF Sheet

Klinger Top grade sheets are manufactured with 3XA features.  
**Anti Stick, Anti Leak Asbestos Free Surface, Anti Corrosion**

**PMO / TMO** 550°C / 200 Bar (CAF) 500°C / 100 Bar (NCAF)  
**Sheets Size** 1.5m x 2m, 1.5m x 4m, 1.5m x 6m  
**Thickness** 0.5mm to 6mm thickness.  
**Ready Cut Gaskets** Manufactured as per ANSI and DIN standard.

## Gland Packing



Non Asbestos Gland Packings

Uni Klinger provides complete range of non asbestos gland packing in Graphite, Teflon, Aramid, Carbon and Glass fiber.

**Size** 3mm sq to 25 mm sq.  
**Type** Available in Braided Rope Form or Ring Form

## Spiral Wound Gaskets



**Size Range** 15 NB - 1500 NB  
**Filler Material** Graphite / Asbestos / PTFE / Mica /  
**Winding Material** SS304 / SS316 / SS316L  
**Inner & Outer Ring** CS / SS304 / SS316  
**Temperature** Upto 550°C  
**Kammprofile / Metal Jacketed Gaskets Ring Type Joints** available on request.

## Expanded PTFE Sheet



PTFE material with Excellent corrosion resistance together with superior creep resistance and sealability create a high grade gasket material for a wide range of applications.

**Thickness** 1.5 mm, 3 mm  
**Size** 1500 mm x 1500 mm  
**Temperature Range** -240°C to +260°C  
**Operating Pressure** Vacuum to 3000 Psi (206 Bar)  
**Graphite Sheets (UKLGS/GPS/GSL)** Available on request

**Other UKL Products :** Air Vents Assembly / Sight Glass / Disc Check Valve / Manifolds  
**Steam Engineering Products :** PRS Station, Flash Vessels, Pressure Powered Pump Unit, Hot Water Generation Systems

# ARPAN PRODUCT RANGE

**AEC**  
**VALVES**

## Ball Valve



Screwed End

2 Pc Design

3 Pc Design

**Design Std** BS 5351 / EN ISO 17292  
**Size Range** 15mm - 200mm  
**Material** CI / CS / SS304-CF8 / SS316-CF8M  
**End Conn** Scr / SW / Flange 150#/ 300#/ DIN / BS 10 Tab F

## Butterfly Valve



Gear Operated

Lever Operated

Lug Type

**Design Std** BS 5155 / API 609  
**Size Range** 40mm - 450mm  
**Material** CI / CS / SS304-CF8 / SS316-CF8M  
**Body Lining** Nitrile / EPDM / Viton / PTFE

## Gate Valve



Gate Valve

Forged Gate Valve

**Design Std** API 600 / API 602 (Forged)  
**Size Range** 15 mm - 300 mm  
**Material** CS / SS304-CF8 / SS316-CF8M / A105  
**End Conn** Screwed / SW / Flange 150#/ 300#

## Globe Valve



Globe Valve

Forged Globe Valve

**Design Std** BS 1873 / ISO 15761 (Forged)  
**Size Range** 15 mm - 300 mm  
**Material** CS / SS304-CF8 / SS316-CF8M / A105  
**End Conn** Screwed / SW / Flange 150#/ 300#

## Check Valve



Swing Check Valve

Forged Check Valve

**Design Std** BS 1868 (Swing)/API 602 (Lift Type)  
**Size Range** 15 mm - 300 mm  
**Material** CS / SS304-CF8 / SS316-CF8M / A105  
**End Conn** Screwed / SW / Flange 150#/ 300#

## Wafer Check Valve



Swing Type Wafer Check Valve

Non Slam Check Valve (DCV)

**Design Std** API 6D  
**Size Range** 15 mm - 300 mm  
**Material** CI/WCB/SS304/SS316  
**Seat** Nitrile / EPDM / PTFE / Metal -DCV

### Applicable Standards

**Pr. Rating** ASME B16.34  
**Face to Face** ASME B16.10  
**Flange End** End ASME B16.5 RF  
**SG/SW** ASME B16.11  
**Test Std** API 598

### Available Modifications

- Jacketed Valves
- Extended Stem
- SS304L / SS316L MOC
- Pneumatic / Electrical Actuator
- PTFE Lined Valves

### TEST PRESSURE

Rating	Body	Seat	Pneumatic
150#	32 kg./cm <sup>2</sup>	23 kg./cm <sup>2</sup>	7 kg./cm <sup>2</sup>
300#	79 kg./cm <sup>2</sup>	58 kg./cm <sup>2</sup>	7 kg./cm <sup>2</sup>
800#	211 kg./cm <sup>2</sup>	153 kg./cm <sup>2</sup>	7 kg./cm <sup>2</sup>

# ARPAN PRODUCT RANGE

**AEC**  
**VALVES**

## Strainer



**"Y" Type Strainer**

**Size Range** 15mm - 300mm  
**Material** CI / CS / SS304-CF8 / SS316-CF8M  
**End Conn** Screwed / SW / Flange 150#/ 300#/ DIN Std  
**Element** SS304 / SS316 Perforated screen + 40 Mesh



**Basket Strainer**

## Sight Flow Indicator



**Full View Sight Glass**

**Design** BS 5351 / ASME B16.34  
**Size Range** 15mm - 150mm  
**Material** CS / SS304-CF8 / SS316-CF8M  
**End Conn** Screwed / Flange 150#/ 300#



**Double Window Sight Glass**

## Jacketed Ball Valve



**Full Jacketed Ball Valve**

**Design Std** BS 5351  
**Size Range** 15 mm - 300 mm  
**Material** CS / SS304-CF8 / SS316-CF8M  
**End Conn** Flange 150#/ 300#



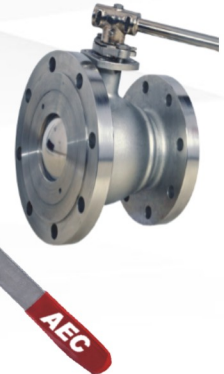
**Half Jacketed Ball Valve**

## Flush Bottom Valve



**Flush Bottom Ball Valve**

**Design Std** BS 5351  
**Size Range** 25 mm - 300 mm  
**Material** CS / SS304-CF8 / SS316-CF8M  
**End Conn** Flange 150#/ 300#

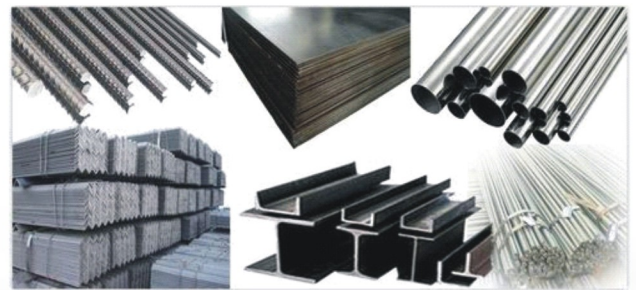


## Pipe Fittings & Flanges



Seamless/ GI / ERW / MS / Forged / SS

## Industrial Pipes & Structural Steel



CS / ERW Pipes / Angle / Channel / Beam / Plate / TMT Bar  
JSW / TATA / VIZAG / SAIL / Rolling

**AEC**  
**VALVES**

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