THE PISTON VALVE principle is a KLINGER idea. One of many ideas which has achieved world-wide recognition. Continuously modified and matched to modern requirement, the piston Valve has provided itself to the millions throughout the world. Today we can say with pride that our group is world's largest manufacturer of valves, based on this design principle. KLINGER Piston valve performance is backed by central R & D of KLINGER at Switzerland.

The shut off assembly comprises of a stainless steel piston, two resilient valve rings and a ferrous metal lantern bush. The sealing consists of the cylindrical surface of the piston and the corresponding inner surface area of the sealing rings. This provides a very large sealing compared with globe valves with conventional design- one of the reasons for the Piston valve's excellent seal.

The valve Rings are the heart of the piston valve. They are made from XKGT, a material specially developed and exclusively used for the manufacture of valve ring. XKGT consists essentially of graphite and tanged stainless steel between each layer of graphite. KLINGER valve rings are not merely surface graphited; the graphite content extends throughout the ring. For this reason its outstanding self lubricating properties are retained throughout the rings entire service life. KLINGER valve rings are resilient, accurately dimensioned and in consequence of their good recovery characteristics have excellent form retention and long service life. KLINGER valve rings are resistant to water, steam, oils, solvents and wide range of other media. KLINGER valve rings can be used for more than 230 listed fluid media.

FEATURES:-
- Seatless and Gland less valve.
- Economic, easy to service.
- No erosion of sealing surface.
- Maintenance free.
- Compensation for thermal expansion with use of Belleville washer.
- Leak-tight across ports and to atmosphere.

END CONNECTIONS:-
Socket weld #800 Rating
Screwed BSPT/ NPT
Flanged to ANSI #150/#300

MATERIAL OF CONSTRUCTION:-
ASTM A105
ASTM A182 Gr.F316

APPLICATIONS:-
- Steam
- Thermic fluids
- Acids
- Gases
- Vacuum
- Other critical media.

ON REQUEST:-
IBR/Non-IBR
MOC : Cast Stainless / Alloy Steel
Valve with extended spindle.
Valve with Heating Jacket
Pneumatic / Electrical Actuator

AVAILABLE SIZES:-
15,20,25, and 40 NB Pr Rating #800
KVSN 50 as per PN40 Rating

INSTALLATION:-
Preferred direction is as per arrow, however this valve is a Bi Directional Valve. This valve can be installed in any position without any adverse effect on performance, seal ability or flow. Due to soft sealing principle it is advisable to install a strainer upstream of the valve to avoid damage to the rings caused by weld slag, metal and other solid impurities.
Forged Piston Valve
USN 15-40

BILL OF MATERIAL

<table>
<thead>
<tr>
<th>No.</th>
<th>PART NAME</th>
<th>MATERIAL</th>
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# Available as Spares

DIMENSIONS (mm)

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Forged Piston Valve
USN 15-40

DIMENSION (mm)

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<th>Press. (bar.g)</th>
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Special Instructions:
- 1) Flush pipelines, 2) Open/Close the valve using hand wheel only, 3) Hot Tighten, 4) Lubricate spindle, 5) Use original Klinger rings only.

HOW TO ORDER
KLINGER PISTON VALVE USN 25, Steam, IBR, FLANGED TO #150
Please mention the media, its design and working pressure/Temperature

UNI KLINGER LIMITED - AN ISO 9001 : 2015 COMPANY
Product Range

**UTD-55 | UTD-62 | UTD-120**
Thermodynamic steam trap

**UTST | UCT-10**
Thermostatic steam trap & Sanitary steam trap

**UFT-15 to 100 | UCA**
Ball Float Trap for Steam and air application

**UG 25/45 | UP64TI | UP215TI**
Bi-metallic Steam Trap

**UITVS**
Compact Trap Valve Station

**UIBT-28US**
Inverted bucket Steam Trap in complete stainless steel construction

**UIBT 1701 to 7004**
Inverted bucket steam trap in cast/forged steel construction

**UDCV**
Wafer type disc check valve / NRV

**UMS**
Moisture separator for Steam & Air

**UAV**
Thermostatic air vent for steam with air bottle for proper venting

**UAE**
Air eliminator for liquid application

**UBSV**
Bellow seal gate/globe valve

**UPHV**
High pressure (#1500/#2500) gate/globe valve

**USTR**
Y & T type strainers in cast carbon steel and stainless steel

**USG**
Double window sight glass

**USI**
Steam injector for boiler feed water tank

**UFV**
Condensate flash vessel

**UPPPU**
Condensate pressure powered pump unit

**UDH**
Atmospheric de-aerator head for boiler feedwater tank

**UAPT**
Automatic pumping trap – Combination of a conventional trap & pump for proper condensate discharge for varied applications

**UCCDS**
Online (24x7) condensate contamination detection system

**UBBHR**
Boiler blowdown heat recovery system

**UHWS**
Instant Hot water generator system

**URPS / UPRDS**
Pressure reducing system & de-superheating system

**UCCM / USDM**
Steam & Condensate manifolds

Other Products:

Cast / Forged Steel Piston Valves, Bellow seal valves, High Pressure valves (Gate/Globe), Strainers – “Y” Type, ITVS Steam Traps (Thermodynamic, Thermostatic, Ball Float Traps and IBT), Pressure Reducing Station, Condensate Recovery Products, Level Gauges (Reflex, Transparent, Bicolor), Sight Glass, Hot Water Generation System, Safety and Relief Valves.

**FSD Products:** Compressed Asbestos / Non Asbestos Fiber Sheet / Cut Gaskets, Spiral Wound Gaskets / Gland Packing

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**UKL UNIVERG LIMITED**
A joint venture of the Neterwala group of companies and KLINGER AG, Switzerland.

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In view of technical progress designs and dimensions are subject to change without notice.