UKL PISTON VALVE:

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 worlds 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 KXGT, a material specially developed and exclusively used for the manufacture of valve ring. KXGT consists essentially of graphite and langed 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:-
- Sealsless and Gland less valve.
- Economic, easy to service.
- No erosion of sealing surface.
- Saves Energy, environment friendly.
- Maintenance free.
- Compensation for thermal expansion with use of Belleville washer.
- Leak-tight across ports and to atmosphere.

MATERIAL OF CONSTRUCTION:-
ASTM A216 Gr. WCB
ASTM A351 Gr.CF8M

APPLICATIONS:-
Steam, Thermic fluids, Acids, Gases, vacuum and other critical media.

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:-
65,80,100,125,150,200 NB
(65NB and 125 NB NB available in DIN Overall length only)

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.
# Piston Valve
## KVN 65-200

### BILL OF MATERIAL

<table>
<thead>
<tr>
<th>No</th>
<th>PART NAME</th>
<th>MATERIAL</th>
<th>MATERIAL CODE</th>
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<tbody>
<tr>
<td>1</td>
<td>Body</td>
<td>Cast Steel</td>
<td>ASTM A 216 Gr WCB</td>
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<tr>
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<td>Bonnet</td>
<td>Cast Steel</td>
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<tr>
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<td>GG 20 / FG 200 / M.I.</td>
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# - Available as Spares

### BILL OF MATERIAL

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UNI KLINGER LIMITED - AN ISO 9001 : 2015 COMPANY
### Piston Valve
**KVN 65-200**

#### Limiting Conditions:

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<tr>
<th>Rating</th>
<th>$P_{\text{max}}$ (kg/cm²)</th>
<th>Temp °C</th>
<th>$T_{\text{max}}$ °C</th>
<th>Press (kg/cm²)</th>
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<th>ØD</th>
<th>b</th>
<th>Øg</th>
<th>f</th>
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| PN40   | 65  | 290.00 | 306.0 | 250.0 | 185.0 | 22.00 | 122.00 | 3.00 | 8.00 | 18.00 | 145.00 | 29.0 |
|        | 80  | 310.00 | 327.0 | 250.0 | 200.0 | 24.00 | 138.00 | 3.00 | 8.00 | 18.00 | 160.00 | 40.0 |
|        | 100 | 350.00 | 374.0 | 280.0 | 235.0 | 24.00 | 162.00 | 3.00 | 8.00 | 22.00 | 190.00 | 60.0 |
|        | 125 | 400.00 | 447.0 | 320.0 | 270.0 | 26.00 | 188.00 | 3.00 | 8.00 | 26.00 | 220.00 | 94.0 |
|        | 150 | 480.00 | 477.0 | 360.0 | 300.0 | 25.00 | 218.00 | 3.00 | 8.00 | 26.00 | 250.00 | 125.0 |
|        | 200 | 600.00 | 561.0 | 400.0 | 375.0 | 34.00 | 285.00 | 3.00 | 12.00 | 30.00 | 320.00 | 210.0 |

#### How to Order
KLINGER PISTON VALVE KVN 80, Steam, IBR, FLANGED TO #150
Please mention the media, its design and working pressure/temperature.
**Product Range**

- **UDT-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

- **UPPUP**
  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

- **UBBHRS**
  Boiler blowdown heat recovery system

- **UHWS**
  Instant Hot water generator system

- **UPRS / 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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**UNI KLINGER LIMITED**

A joint venture of the Neterwala group of companies and KLINER AG, Switzerland.

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**Factory:**
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Fax: 0241 – 2777294, E-mail: tcdworks@uniklinger.com

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- **Baroda**
  102, Off Tel No. 1st Floor, R.C. Dutt Rd, Baroda-390 005, Tel.: 91-265-2312343 / 2340660, Fax.: 91-265-2314199, E-mail: salesbar@uniklinger.com

- **Chennai**
  East Coast Centre, 5th Floor, 553, Mount Rd, Teyanampet, Chennai – 600018, Tel.: 91 – 44 – 24343707, Fax.: 91 – 44 – 2433960, E-mail: saleschennai@uniklinger.com

- **Kolkata**
  9, Chitrakoot, 8th Floor, 230 A, AJC Bose Rd, Kolkata- 700 020, Tel.: 91-33-22872510, Fax.: 91-33-2287649, E-mail: saleskolkata@uniklinger.com

- **Mumbai**
  714, Eccstasy, City of Joy Complex, J.S.D. Rd, Mulund (W) Mumbai - 400080, Tel.: 91-22-25440463, Fax.: 91-22-25440463, E-mail: salesmumbai@uniklinger.com

- **New Delhi**
  1003, 10th Flr, Indra Prakash Bldg. 21, Barakambha Rd, Connaught Place New Delhi-110001, Tel.: 91-11-41658767, Fax.: 91-11-41668768, E-mail: salesdelhi@uniklinger.com

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