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COMPANY BACKGROUND

Hydravalve (UK) Ltd was established in 1988 as a private limited company, started by partners Mr A Newham and Mr A Brown. Since Mr Brown’s retirement in 2008, the company was family run, with Andy Newham Managing Director, Marie Shaw Company Secretary, Andrew Newham and Edward Newham are Directors. Starting with a single 1000 sq ft unit in Willenhall, West Midlands, the company has now moved to a 11000 sq ft unit in Willenhall. Hydravalve have recently installed 5 Kardex Remstar machines, which has optimised footprint and allowed an additional 6000 sq ft.

Hydravalve is a supplier of valves and actuation to the process pipeline market. We offer comprehensive stocks of brass, stainless steel, cast iron valves at competitive prices and with our established network of couriers, we can ensure prompt shipping of orders to all of our customers around the world.

Here at Hydravalve we are proud to offer all customers 28 years of technical expertise along with our in-house valve actuation assembly facility, offering the full one-stop shop for your process valve package needs. Whether it’s a one-off purchase or a valve project with 100s of line items, we strive to go above and beyond our customer’s requirements.

In March 2016, as some of you may already be aware, Hydravalve was acquired by and became part of the Flowtech Fluidpower plc Group. Hydravalve will be operating as an autonomous business unit within the Group.
04 STEAM & PROCESS OVERVIEW

BRASS & STAINLESS 2/3 PIECE

RuB Gas and WRAS Approved Brass Full Bore Ball Valve

- RuB BV84
- Available in sizes 1/4” BSP to 3” BSP
- Full port to DIN 3357 for maximum flow
- For use with dangerous gases. Temperature rating is +20°C to +60°C and pressure rating is 5 bar
- General use: 40 bar (Kg/cm2) non-shock cold working pressure
- Temperature Range: -40°C +170°C
- Silicone-free lubricant on all seals

2 Piece Full Bore Ball Valve Stainless Steel 2006S

- Available in sizes 1/4” to 3”
- Working pressure: 1000 psi WOG (PN63)
- Working temperature: +20°C to +200°C
- Blow-out proof stem
- ATEX approved
- TA Luft approved
- Thread type: BSPP. Also available in BSPT and NPT
- Body and ball CF8M/316ss
- Seats and seals PTFE

3 Piece Full Bore Ball Valve Stainless Steel 2013N

- Available in sizes 1/4”- 4”
- Working pressure: 1000psi WOG (PN63)
- Working temperature: -20°C to +200°C
- Blow-out proof stem
- TA Luft approved
- Thread type: BSPP
- Body and ball CF8M/316ss
- Seats and seals PTFE

3 Piece Full Bore Direct Mount Ball Valve 2013KMD

- Sizes available: 1/2” to 1” 2000 psi rated, 1 1/4” to 2” 1500psi rated, 2 1/2” - 3” 1000 psi rated
- #600 Rated
- CF8M Body and CTFE Seats
- BSPP Female Threads
- ISO 5211 Direct Mount
- Fire safe Approved to API607 4th Edition
- Available in BSP and NPT. Carbon Steel also available
ACTUATED VALVES

Brass Ball Valve fitted with a Haitima Double Acting Actuator

- Available in sizes 1/2" to 4"
- ISO 5211 and DIN 3337 mounting flange for universal connection to actuator
- EN 10226-1, ISO 228 parallel female by female threads
- Working Pressure 40 Bar up to 2", 30 Bar over 2" non-shock cold working pressure
- Temperature Range: -20°C to +170°C
- Spring return actuator also available

Haitima 2013ND fitted with Double Acting Haitima Actuator

- Sizes available: 1/2" to 1" 2000 psi rated, 1 1/4" to 2" 1500psi rated, 2 1/2" - 3" 1000 psi rated
- #600 Rated
- CF8M Body and CTFE Seats
- BSPP Female Threads
- ISO 5211 Direct Mount
- Fire safe Approved to API607 4th Edition
- Available in BSP and NPT. Carbon Steel also available

Haitima Double Acting 3 Way L Port Stainless Steel Ball Valve

- Available in sizes 1/4" to 2"
- CF8M Body PTFE Seats and Seals
- T Port also available
- ISO 5211 and DIN 3337 mounting flange for universal connection to actuator
- Working Pressure 69 Bar non-shock cold working pressure
- Temperature Range: -20°C to +200°C
- Single acting actuator also available

Haitima Carbon Full Bore Ball Valve fitted with an Electric Actuator

- Available in various sizes
- All ATEX Approved
- Flameproof Solenoid Coil
- Haitima Carbon Full Bore Ball Valve
- Haitima Spring Return Electric Actuator

Also available are Prisma pneumatic & J+J Electric Actuated Valves
FLANGED BALL VALVES

Haitima 2019D 2 Piece Direct Mount Full Bore Ball Valve

- Available in sizes 1/2” to 6”
- PN40 flanged 40 bar rated up to 4” and PN16 flanged 16 bar rated from 2 1/2” to 8”
- CF8M Body
- PTFE/TFM1600 Seats
- ISO 5211 Direct Mount
- ATEX Approved
- Firesafe Certified
- DNV Certified
- 2019S also available

Haitima 2020D 2 Piece Direct Mount Full Bore Ball Valve

- Available in sizes 1/2” to 6”
- 20 bar rated
- CF8M Body
- TFM1600/PTFE Seals
- ASA150 flanged ends
- ISO 5211 Direct Mount
- ATEX Approved
- API607 5th Edition Firesafe Certified

Haitima 2059SL Full Bore Direct Mount 3-Way T-Port Ball Valve

- Available in sizes 1/2” to 6”
- 20 bar rated
- CF8M Body and PTFE Seats
- ASA150 flanged ends. Also available in PN16 flanged ends
- ISO 5211 Direct Mount
- Lockable Lever
KNIFE GATE VALVES

CMO SERIES A Knife Gate Valve
- This uni-directional knife gate valve is appropriate for liquids with a solids concentration of maximum 5%
- If it is used for dry solids in gravity feed applications
- Sizes from 2” to 12”
- PN10 and PN16. Other sizes available on request
- All types of actuators can be supplied. Pneumatic available from stock
- Various seat and packing materials available

CMO SERIES AB Knife Gate Valve
- This knife gate valve is suitable for liquids that contain a maximum of 4% suspended solids
- Sizes from 2” to 12”
- Other sizes available on request
- Wafer style, bidirectional knife gate valve. One piece integral cast body with sliding wedges to provide bidirectional function
- High flow rates with low pressure drops

CMO SERIES D Knife Gate Valve
- This knife gate valve is suitable for working with clean liquids or liquids with a high concentration of solids:
  > Drying plants, Paper industry, Water Treatment, Chemical Plants
  > Food sector, Mining, Oil extraction, Sludge
- Bidirectional flanged gate valve designed for high pressure applications, with self cleaning seal. Single piece die-cast body with screwed down bonnet and wedges to guarantee the seal. Provides high flow rates with low pressure drop
- Available from 2” to 12”
- Other sizes available on request
- Flanged PN16 and PN25 available
BUTTERFLY VALVES

HUK Wafer Butterfly Valve Fully PTFE Lined
- Sizes 2” to 12”
- Ductile Iron Body
- PTFE Coated 316SS Disc
- PTFE Liner
- Lever Operated upto 5” Gear Operated 6” upwards
- To suit flanges PN10/PN16/ANSI150/BS 10 Table E

HUK Lugged PN16 Butterfly Valve Gearbox Operated
- Ductile Iron Body
- Stainless Steel Disc. Also available are Aluminium Bronze and ENP Ductile Iron
- NBR, EPDM, Viton, Silicone liners and PTFE on silicone also available
- Lever and Gearbox Operated available in sizes 1 1/2” to 20”
- To suit flanges PN16, ANSI150, BS10E and PN10 available up to 12”. Other sizes available on request
- WRAS approved 2” to 12” also available from stock

HUK Lugged PN16 Butterfly Valve SS/SS/VITON Lever Operated
- Sizes 2” to 12”
- Stainless Steel Body and Stainless Steel Disc
- VITON Liner. EPDM and NBR liners also available
- Lever Operated and Gearbox available
- To suit flanges PN16, ANSI150/BS 10 Table E and PN10 available on request
GATE VALVES

Haitima 2029 Gate Valve Stainless Steel
- Haitima 2029 Gate Valve
- 200WOG Rated
- CF8M Body
- PTFE Seals
- BSP and NPT Threaded ends
- Sizes from 1/2" to 3"

Haitima ASA150 Flanged St/St Gate Valve Handwheel Op.
- Haitima 2054SL Flanged Gate Valve
- 20 BAR Rated
- CF8M Body & Wedge
- ASA150 and PN16 Flanged Ends
- Handwheel Operated
- Rising Stem
- Sizes from 1/2" to 6"

HUK Cast Iron Gate Valves BS5163 Resilient Seated
- Non Rising Stem
- EPDM Coated Wedge
- Handwheel Operated. Key operated also available
- PN16 Flanged
- Type B Resilient Seat
- Sizes from 2" to 12"
- WRAS approved

HUK GV12 Brass Gate Valve
- HUK Brass Gate Valve
- Female/female threads (long thread pattern)
- Cast Handwheel
- Minimum and maximum working temperatures: 0°C to 120°C, in the absence of steam
- Available sizes: 3/8” through 4”
- Suitable for domestic water services and heating plants
GLOBE VALVES

Haitima 2028 Stainless Steel Globe Valve
- Haitima 2028 Globe Valve
- Sizes 1/2” to 2”
- 200WOG Rated
- CF8M Body
- PTFE Seals
- BSP and NPT Threads available

Bellow Sealed Carbon Steel Globe Valve
- Sizes 1/2” to 8” (DN15-DN200)
- PN40 Flanged
- Max pressure 40 BAR
- Temperature -20ºC - 400ºC
- Carbon Steel WCB body
- Stainless steel bellow
- Non rising stem

Haitima Flanged Stainless Steel Globe Valve 2053
- Sizes 1/2”-6” (DN15-DN150)
- PN16 and ASA150
- Temperature -20ºC - 200ºC
- Investment casting
- Rising stem

PN16 Cast Iron Globe Valve
- Sizes 1/2” to 8” (DN15-DN200)
- Rising rotating stem and handwheel
- Grey painting RAL 7011-7012
- Ends : Flanges ISO PN16
- Min Temperature: -10ºC. Max Temperature: + 300ºC
- Max Pressure: 16 BAR
- Steam: 10 bars maximum
- Epoxy paint finish available in a variety of colours
CHECK VALVES / Y STRAINERS

Haitima 2026 Wafer Disc Check Valve
- Wafer spring loaded check valve (single disk)
- Made of Stainless Steel AISI 316
- Disk made in AISI 316
- Spring made in AISI 316
- Assembly between flanges DIN PN-16/40 and ANSI 150
- Available from stock 1/2” to 4”
- Working Temperature: -20°C to +240°C

HUK PN16 Flanged Cast Iron Swing Check Valve
- Body Grey Cast Iron Epoxy Coated
- Body Seat Brass
- Disc Ductile Iron
- Flanged Ends PN16
- Available in metal seat or soft seat
- Sizes from 2” to 12”
- Lever and weight available on request

Haitima 2030 Stainless Steel Screwed Swing Check Valve
- 200WOG Rated
- CF8M Body
- PTFE Seals
- BSP Threaded ends
- Sizes from 1/2” to 3”

Haitima 2049SL Flanged St/St Y Strainer
- Sizes from 1/2” to 6”
- Haitima 2049SL16 Flanged Y Strainer
- 16 Bar Rated
- CF8M Body
- PN16 Flanged Ends. Also available in ASA150
- Filter element 40 mesh as standard, other levels of filtration available on request
SWITCHBOXES / SOLENOID VALVES

SWITCHBOXES

Materials

Box : Aluminium (IP-67)
Shaft : Stainless Steel
Indicator cover : Polycarbonate
Bolting : Stainless Steel
Air-tight tap : 1 unit polyamide
Packing gland : IP-67 M20 6-12mm cable diameter
1 unit, option 2 units

Specifications

Temperature : -20°C + 80°C
Limit switches : Electromechanics SPDT Telemecanique

Explosion-proof case and proximity sensors also available.

SOLENOID VALVES

<table>
<thead>
<tr>
<th>Model</th>
<th>HSV310-08</th>
<th>HSV320-08</th>
</tr>
</thead>
<tbody>
<tr>
<td>Medium</td>
<td>Air</td>
<td></td>
</tr>
<tr>
<td>Operating</td>
<td>Internal Piloted</td>
<td></td>
</tr>
<tr>
<td>Valve Type</td>
<td>5 Port 2 Position</td>
<td></td>
</tr>
<tr>
<td>Orifice Size</td>
<td>35mm2</td>
<td></td>
</tr>
<tr>
<td>Port Size</td>
<td>Inlet &amp; Exhaust Port:PF1/4”</td>
<td></td>
</tr>
<tr>
<td>Lubrication</td>
<td>Not Required</td>
<td></td>
</tr>
<tr>
<td>Pressure Range</td>
<td>0.15~0.8 Mpa</td>
<td></td>
</tr>
<tr>
<td>Proof Pressure</td>
<td>12bar</td>
<td></td>
</tr>
<tr>
<td>Temp. Range</td>
<td>-5<del>60°C(23</del>140°F)</td>
<td></td>
</tr>
<tr>
<td>Voltage Range</td>
<td>-15%~10%</td>
<td></td>
</tr>
<tr>
<td>Power Consumption</td>
<td>AC=2.0~3.5VA, DC=2.5W</td>
<td></td>
</tr>
<tr>
<td>Insulation Class</td>
<td>Class F</td>
<td></td>
</tr>
<tr>
<td>Protection</td>
<td>IP65(DIN40050)</td>
<td></td>
</tr>
<tr>
<td>Connector</td>
<td>Socket with Plug</td>
<td></td>
</tr>
<tr>
<td>Max Frequency</td>
<td>5 cycle/second</td>
<td></td>
</tr>
</tbody>
</table>

Specification of Explosion-Proof Type

Protection | EExmlIIT4
Voltage Range | +10%
Power Consumption | AC=4.4VA, DC=5W
Insulation Class | Class F

Due to particular air circuit structure our solenoid valves can prevent entry of liquid and dust effectively. This current series can be applied especially on outdoor or dusty environment. Air supply pressure range: 2-8bar, power voltage range: 12/24/48VDC, 110/220/240VAC, type: General Type, Explosion-proof Type, Intrinsic safe Type, Pouring Type.

Note: Port thread PT and NPT are also available.
AIR VENTS

CAST IRON AIR VENT PF20

Typical Use

The PF20 float air vent permits to eliminate air or non-condensable gases from a liquid pipework. It improves the fluid flow in the piping systems, avoids noises and corrosion, and protects the circulation pumps. With a cast iron construction and a 304 stainless steel internal mechanism, it is adapted to many applications. It has to be installed in a vertical position, above the volume that has to be drained.

Available Sizes

Connection to pipework: 3/4” BSP
Vent Connection: 1/2 BSP
Alternative: HA62 Stainless Steel Air Vent (P.O.A)

Specification

<table>
<thead>
<tr>
<th>Item</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>Body</td>
<td>Cast Iron</td>
</tr>
<tr>
<td>Cap</td>
<td>Cast Iron</td>
</tr>
<tr>
<td>Mechanism and Float</td>
<td>Stainless Steel</td>
</tr>
<tr>
<td></td>
<td>304</td>
</tr>
<tr>
<td>Gasket E</td>
<td>PDM</td>
</tr>
</tbody>
</table>

<table>
<thead>
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<th>Item</th>
<th>Material</th>
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<td>Body</td>
<td>Cast Iron</td>
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<tr>
<td>Cap</td>
<td>Cast Iron</td>
</tr>
<tr>
<td>Mechanism and Float</td>
<td>Stainless Steel</td>
</tr>
<tr>
<td></td>
<td>304</td>
</tr>
<tr>
<td>Gasket E</td>
<td>PDM</td>
</tr>
</tbody>
</table>

Limits of Use

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Max allowable pressure</td>
<td>10 bar</td>
</tr>
<tr>
<td>Max allowable temperature</td>
<td>120°C</td>
</tr>
</tbody>
</table>

DIMENSIONS (mm)

<table>
<thead>
<tr>
<th></th>
<th>A</th>
<th>B</th>
<th>D</th>
<th>H</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>PF20</td>
<td>1/2”</td>
<td>3/4”</td>
<td>126</td>
<td>135</td>
<td>3kg</td>
</tr>
</tbody>
</table>

Flow Rate Chart

![Flow Rate Chart Graph](image_url)
QUARTER TURN ELECTRIC ACTUATOR

QUARTER TURN ELECTRIC ACTUATOR HQ-005

Typical Use

HQ005 Electric actuator is specially designed for small quarter turn valves, such as ball, butterfly, plug valves, dampers and other similar usages. The actuator housing is made from high grade aluminum die cast which is robust and light weight. To provide high corrosion resistance, the housing is hard anodized inside & outside prior to polyester painting on the external surface. Rugged design with tight O-ring system means the HQ-005 is rated to IP67 as standard. The actuator is fitted with manual override handwheel and declutch system for use when power is lost or in an emergency. Available options include modulating positioner card for all voltages (single phase & 24VAC/DC) and torque overload indication system via flashing LED lamps.

Features

- Multi voltage design (Single phase & 24V)
- High corrosion resistance, anodized & painted housing
- 4 off Limit switches
- Torque output: 50 Nm
- Low current, long-life actuator due to unique brushless DC motor ensuring high reliability
- 2 off M20 cable entries
- IP67 weatherproof enclosure
- F03/F04/F05/FO7 mounting base with 14mm Star drive
- Captive cover bolts
- Visual beacon indicator & LED lamps
- 70% Duty Rating (on/off only)
- Declutchable manual override handwheel
- Electronic torque limiter
QUARTER TURN ELECTRIC ACTUATOR HQ-005

Performance Data

<table>
<thead>
<tr>
<th>Model</th>
<th>Max Output Torque</th>
<th>Operating time 50/60 Hz</th>
<th>Mounting Base</th>
<th>Motor Stop Electric Current</th>
<th>Rated Current (A)</th>
<th>Duty Cycle</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>HQ-005</td>
<td>5 kgf.m</td>
<td>13 sec</td>
<td>ISO 5211</td>
<td>1A</td>
<td>0.1 A</td>
<td>S4</td>
<td>2.6</td>
</tr>
</tbody>
</table>

Standard Specification

- **Enclosure**: Potentiometer Unit (1-10 kΩ)
- **Power supply**: 85 - 265 VAC 1 ph, 50/60 Hz | 24 VAC/DC
- **Duty cycle**: S4: 70% (average load of 80% Max. torque)
- **Motor**: BLDC motor
- **Limit switches**: 2 x open/close, SPDT, 250 V ac 10 A rating
- **Additional limit switches**: 2 x open/close, SPDT, 250 V ac 10 A rating
- **Anti-condensation board**: 2 W
- **Manual override**: Manual Handwheel
- **Cable entries**: Standard: 2 x M20
- **Movement angle**: 320 ± 10° (0 - 330°)
- **Ambient temperature**: -20 to +80 °C

Optional Specifications

- **PIU**: Potentiometer Unit (1-10 kΩ)
- **PCU**: Proportional control unit (in/out: 0-10V or 4-20 mA)
- **CPT**: Current position transmitter (output: 4-20 mA dc)
- **WTA**: Watertight enclosure actuator (IP68 10 m 72 hr)
- **PRO1**: Profibus DP interface module (single & redundancy)
- **MOD1**: Modbus module (single & redundancy)
- **TS**: Torque overload indicator via flashing LED module
VACUUM BREAKERS

VACUUM BREAKERS VK70-VK71

**Typical Use**

The VK vacuum breaker is an accessory permitting air intake in the pipes when operating conditions turn to depression. The induced vacuum prevents the normal flow of the fluid and puts the installation safety at risk. The vacuum breaker is particularly recommended on steam pipework (to avoid the vacuum into the system at shut down and prevent steam condensation) and on steam exchangers (the system is put under vacuum when there is a non-stationary heat exchange). This device is available in brass and stainless steel version.

**Available Sizes**

1/2” brass or 1/2” stainless steel inlet BSP threaded connections. Air intake 1/8” BSP.

**Limits of Use**

<table>
<thead>
<tr>
<th>Item</th>
<th>VK70 V</th>
<th>K71</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Max body pressure</td>
<td>PN16 Brass</td>
</tr>
<tr>
<td></td>
<td>Max allowable temp</td>
<td>260°C</td>
</tr>
</tbody>
</table>

**Construction**

<table>
<thead>
<tr>
<th>Item</th>
<th>VK70 brass</th>
<th>VK71 Stainless Steel</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Cap</td>
<td>Brass</td>
</tr>
<tr>
<td>2</td>
<td>Gasket</td>
<td>AISI 304</td>
</tr>
<tr>
<td>3</td>
<td>Ball</td>
<td>AISI 304 stainless steel</td>
</tr>
<tr>
<td>4</td>
<td>Seat</td>
<td>AISI 304 stainless steel</td>
</tr>
<tr>
<td>5</td>
<td>Body B</td>
<td>Brass</td>
</tr>
</tbody>
</table>

**Dimensions (mm) & Weight (kg)**

<table>
<thead>
<tr>
<th>DN</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>1/2&quot;</td>
<td>55mm</td>
<td>34mm</td>
<td>39mm</td>
<td>35kg</td>
</tr>
</tbody>
</table>

**Flow rate vs Differential pressure**

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STEAM & PROCESS OVERVIEW
STEAM TRAPS

THERMODYNAMIC TK1

Typical Use
Thermostatic / thermodynamic steam traps with corrosion resistant regulator, unaffected by water hammer. Integral strainer and non-return valve action. Automatic de-aeration. Installation in any position. Working at high pressure Bi-metal thermostatic plates can be adjusted by screw. Through this adjustment it is possible to increase and decrease the discharge capacity and the temperature of condensate. Ideal steam trap for super heated steam line applications.

<table>
<thead>
<tr>
<th>Operating Conditions</th>
<th></th>
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<tbody>
<tr>
<td>Max Allowable Pressure</td>
<td>40 bar</td>
</tr>
<tr>
<td>Max Allowable Temperature</td>
<td>400°C</td>
</tr>
<tr>
<td>Max Operating Pressure</td>
<td>32 bar</td>
</tr>
<tr>
<td>Max Differential Pressure</td>
<td>22 bar</td>
</tr>
<tr>
<td>Max Operating Temperature</td>
<td>250°C</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Connections</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Screwed</td>
<td>NPT acc. to ANSI B1 20.1</td>
</tr>
<tr>
<td></td>
<td>BSP acc. to BS 21</td>
</tr>
<tr>
<td>Socket Weld</td>
<td>ANSI B 16.11</td>
</tr>
<tr>
<td>Flanged</td>
<td>DIN 2635 (PN40)</td>
</tr>
</tbody>
</table>

CAST IRON FLOAT STEAM TRAP SK51

Typical Use
The SK51 is a float trap dedicated to the draining of condensate in the steam lines. The SK51 has a ductile cast iron body with threaded or flanged connections with standardised face to face dimensions. This steam trap is able to drain large capacities of condensate and is well adapted to the changes of flowrates. For this reason, it is recommended for the draining of process like heat exchangers, autoclaves, condensers in the field of chemical processing, pharmaceutical industries. As a standard the SK51 is fitted with a thermostatic capsule for air elimination in starting phase. It must be installed horizontally and several mechanisms are available depending on the differential pressure.

Available Sizes
BSP screwed end connections: G $\frac{1}{2}$“ – G $\frac{3}{4}$“ – G 1”
DN15, DN20 to DN25
Connecting with flanges PN16
Pressure 4, 5 / 10 /14 BAR
STEAM TRAPS

THERMOSTATIC TKK42

Typical Use
The TKK42 thermostatic steam trap without non-return device is dedicated to steam installation draining. In a stainless steel construction, it is suitable for use on clean and sterile steam or in corrosive environment. The Hastelloy capsule is protected by an international patent from the manufacturer. This steam trap is unaffected by back pressure. It permits to regulate a continuous purge and automatically evacuates the air at start-up. The condensate discharge temperature can be adjusted selecting one of the 3 different cooling capsules available: 10°C (standard set up), 5° and 20°C. It is equipped with a built-in strainer. Vertical mounting only.

Available Sizes
TKK42: 3/8”, ½”, ¾” and 1” threaded connections

LIMITS OF USE

| Max Allowable Steam Pressure | 32 bar |
| Max Differential Pressure    | 21 bar |
| Max Allowable Temperature    | +240°C |

STAINLESS STEEL THERMODYNAMIC TDK71

Typical Use
The TDK 71 steam trap is a stainless steel thermodynamics steam trap. Of strong and compact strainer construction with incorporated Y filters it is perfectly adapted to the drain of the steam distribution pipes and steam tracing systems. The TDK 71 accepts downstream counter pressure until 80% of the upstream pressure and it is insensible to water hammer. It can also be used on superheated steam and in freezing areas. The maintenance of this type of steam trap is easy.

Available Sizes
BSP screwed end connections:
G ½” – G ¾” – G 1”

LIMITS OF USE

| Body Calculation Pressure | 63 bar |
| Max Allowed Fluid Pressure | 42 bar |
| Max Allowed Fluids Temperature | +0°C/+400°C |
STEAM TRAPS

DUCTILE IRON SK55

**Typical Use**

The SK55 is a large capacity float steam trap dedicated to the draining in medium pressure installations. The typical application is heat exchangers’ draining. With a ductile iron body, the SK55 steam trap has PN16 flanges. In standard version, the SK55 is equipped with an internal strainer to protect the mechanism. SK55 has also a sight glass to control the flow of condensate. The standard version has to be installed horizontally or vertically and various inner mechanisms can be offered depending on the pressure.

**Available Sizes**

Sizes DN32, DN40 and DN50 flanged PN16
Sizes 1”1/4, 1”1/2 and 2” screwed connections

**Limits of Use**

<table>
<thead>
<tr>
<th>Max Operating Pressure</th>
<th>16 bar</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max Operating Temperature</td>
<td>250°C</td>
</tr>
<tr>
<td>Max Pressure</td>
<td>4, 5-10-14 bar</td>
</tr>
</tbody>
</table>

CARBON STEEL THERMODYNAMIC TDK45

**Typical Use**

TDK45 thermodynamic steam traps as well as the others are designed, manufactured and tested in accordance with the DIN standards and the relevant GERMAN regulations for steam boilers (TRD) and pressure vessels (AD). Maximum opposite pressure should not exceed 80% of front pressure. Internal parts are all stainless steel and the body is forged steel. Discharge according to the amount of the condensate. All spare parts are available and maintenance is easy. Strainer is “Y” type which is under the body and easy to clean when necessary.

**Available Sizes**

Sizes from 1/2” to 1”
NPT acc. to ANSI B1 20.1. BSP acc. to BS21 (screwed)
ANSI B16.11 (Socket Weld)
DN2533 (Flanged)

**Limits of Use**

<table>
<thead>
<tr>
<th>Max Allowable Pressure</th>
<th>65 bar</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max Allowable Temperature</td>
<td>450°C</td>
</tr>
<tr>
<td>Max Operating Pressure</td>
<td>40 bar</td>
</tr>
<tr>
<td>Max Differential Pressure</td>
<td>32 bar</td>
</tr>
<tr>
<td>Max Operating Temperature</td>
<td>400°C</td>
</tr>
</tbody>
</table>
STEAM TRAPS

CARBON STEEL FLOAT TRAP SK70

**Typical Use**

The SK70 is a float trap dedicated to the draining of condensate in the steam lines. The SK70 has a ductile carbon steel body with threaded or flanged connections with standardised face to face dimension. This steam trap is able to drain large capacities of condensate and is well adapted to the changes of flowrates. For this reason, it is recommended for the draining of process like heat exchangers, autoclaves, condensers in the field of chemical processing, pharmaceutical industries. As a standard the SK70 is fitted with a thermostatic capsule for air elimination in starting phase. It must be installed horizontally and several mechanisms are available depending on the differential pressure.

**Available Sizes**

BSP screwed end connections: G 1/2" - G 3/4" - G 1” DN15, DN20 to DN25
Connecting with flanges PN25
Pressure 4, 5/10/14 bar

**Limits of Use**

| Max Allowed Fluid Pressure | 25 bar |
| Max Allowed Fluid Temperature | 0°C/+250°C |
| Use on Saturated Steam | 20 bar/+215°C |

STAINLESS STEEL FLOAT TRAP SK61

**Typical Use**

The SK61 is a float trap dedicated to the draining of condensate in the steam lines. The SK61 has a ductile carbon steel body with threaded or flanged connections with standardised face to face dimension. This steam trap is able to drain large capacities of condensate and is well adapted to the changes of flowrates. For this reason, it is recommended for the draining of process like heat exchangers, autoclaves, condensers in the field of chemical processing, pharmaceutical industries. As a standard the SK70 is fitted with a thermostatic capsule for air elimination in starting phase. It must be installed horizontally and several mechanisms are available depending on the differential pressure.

**Available Sizes**

BSP screwed end connections: G 1/2" - G 3/4" - G 1” DN15, DN20 to DN25
Connecting with flanges PN25
Pressure 4, 5/10/14 bar

**Limits of Use**

| Max Allowed Fluid Pressure | 25 bar |
| Max Allowed Fluid Temperature | 0°C/+250°C |
| Use on Saturated Steam | 16 bar/+205°C |
STEAM TRAPS

CARBON STEEL THERMOSTATIC TKK21

**Typical Use**

The TKK21 thermostatic steam trap is dedicated to the steam installation draining. With a carbon steel construction, it is available with threaded connections. The Hastelloy capsule is protected by an international patent from the manufacturer. This steam trap is unaffected by backpressure. It permits to regulate a continuous purge and automatically evacuates the air at start-up. The condensate discharge temperature can be adjusted selecting one of the 3 different cooling capsules available: 10 °C (standard set up), 5 °C and 20 °C. It is equipped with a built-in strainer and can be mounted in any position.

**Available Sizes**

TKK21: BSP 1/2” threaded connections

**Limits of Use**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max Allowable Pressure</td>
<td>25 bar</td>
</tr>
<tr>
<td>Max Service Pressure</td>
<td>21 bar</td>
</tr>
<tr>
<td>Max Differential Pressure</td>
<td>21 bar</td>
</tr>
<tr>
<td>Max Allowable Temperature</td>
<td>400°C</td>
</tr>
<tr>
<td>Max Service Temperature</td>
<td>235°C</td>
</tr>
</tbody>
</table>

CARBON STEEL THERMOSTATIC TKK2Y

**Typical Use**

TKK2Y Thermostatic Steam Traps as well as the others are designed, manufactured and tested in accordance with the DIN standards and the relevant GERMAN regulations for steam boilers (TRD) and pressure vessels (AD). Thermostatic steam trap with membrane capsule regulator resists against corrosion and is unaffected by waterhammer. Only difference of the TKK2Y type thermostatic steam traps are they have a “Y” type strainer. These thermostatic steam traps can work in any installation position and include standard type “S” membrane capsule. The stainless steel ball inside the specially designed seat acts as a non-return valve.

**Available Sizes**

NPT acc. to ANSI B1 20.1. BSP acc. to BS21 (Screwed)  
ANSI B16.11 (Socket Weld)  
DIN 2635 (Flanged)

**Limits of Use**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max Allowable Pressure</td>
<td>40 bar</td>
</tr>
<tr>
<td>Max Allowable Temperature</td>
<td>400°C</td>
</tr>
<tr>
<td>Max Operating Pressure</td>
<td>32 bar</td>
</tr>
<tr>
<td>Max Differential Temperature</td>
<td>22 bar</td>
</tr>
<tr>
<td>Max Service Temperature</td>
<td>250°C</td>
</tr>
</tbody>
</table>
STEAM TRAPS

BRASS THERMOSTATIC TKK11

**Main Features**
- Body: CW617N Stainless steel mechanism
- Seat: Stainless steel
- Connections: BSP - female/female
- Specifications: Built-in strainer, angle

**Operating Conditions**
- Fluids: Steam
- Pressure: 7 bar
- Temperature: +150°C max

BRASS THERMOSTATIC PN16 TKK61

**Main Features**
- Body: CW617N Stainless steel mechanism
- Seat: Stainless steel
- Connections: BSP - female/female
- Specifications: Built-in strainer, angle

**Operating Conditions**
- Fluids: Steam
- Pressure: 7 bar
- Temperature: +150°C max
SEPARATORS

STAINLESS STEEL SEPARATOR PN25 SPR25

**Typical Use**

The SPR 25 stainless steel separator is used to eliminate water, oil and dust particles on steam and compressed air distribution stainless steel pipework. It permits to get a clean fluid and protects the downstream sensitive equipment such as pressure reducers, control valves, instrumentation equipment. In case of use on steam, it permits to get a dry steam and thus improves heat exchange efficiency. The stainless steel SPR25 is particularly suitable for clean steam installations. The SPR separator is dimensioned according to the AD Merkblatt 2000 code and the EC 97/23 Directive. It has a stainless steel construction with flanged connections. The device lowest point is equipped with a strainer and has to be equipped with a condensate drain for steam and liquid drain for compressed air. The highest point can be equipped with various accessories (air vent, pressure gauge, etc.) It is necessary to think about an adequate support of the separator, based on its weight.

**Sizes Available**

DN 1/2" to 1": threaded connections

**Limits of Use**

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Max Allowable Pressure</td>
<td>25 bar</td>
</tr>
<tr>
<td>Max Allowable Temperature</td>
<td>228°C</td>
</tr>
<tr>
<td>Hydraulic Test Pressure</td>
<td>38 bar</td>
</tr>
</tbody>
</table>

CARBON STEEL SEPARATOR PN40 SPR40

**Typical Use**

The SPR40 separator is used to eliminate water, oil and dust particles on steam and compressed air distribution pipework. It permits to get a clean fluid and protects the downstream sensitive equipment such as pressure reducers, control valves, instrumentation equipment. In case of use on steam, it permits to get a dry steam and thus improves heat exchange efficiency. The SPR separator is dimensioned according to the AD Merkblatt 2000 code and the EC 97/23 Directive. It has a carbon steel construction with flanged connections. The device lowest point has to be equipped with a condensate drain for steam and liquid drain for compressed air. The highest point can be equipped with various accessories.

**Sizes Available**

DN 15 to DN 100 PN40 flanged connection
DN 100 to DN 150 carbon steel and stainless steel on request

**Limits of Use**

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Max Allowable Air Pressure</td>
<td>40 bar</td>
</tr>
<tr>
<td>Max Allowable Air Temperature</td>
<td>20°C</td>
</tr>
<tr>
<td>Max Allowable Steam Temperature</td>
<td>32 bar</td>
</tr>
<tr>
<td>Max Allowable Steam Temperature</td>
<td>250°C</td>
</tr>
<tr>
<td>Hydraulic Test Pressure</td>
<td>60 bar</td>
</tr>
</tbody>
</table>
SAFETY VALVES

BRASS SAFETY VALVE 2851-2858

Main Features
Body: CW614N. CW614N clack
Seat: KALREZ
Connections: BSP - male/male
Specifications: Pipe outlet & lever

Operating Conditions
Fluids: Steam and gases
Pressure: 30 bar for 1/2", 60 bar from 3/4" to 1 1/2, 14 bar for 2"
Temperature: +200°C saturated steam

CAST IRON SAFETY VALVE 6301

Typical Use
The 6301 safety valve is dedicated to protect the equipment from potential overpressure. This is an automatic device that closes when the pressure conditions are back to normal. It is a spring type safety valve with displaced ports and instantaneous exhaust. It has a cast iron construction. It is delivered sealed with a closed cover, a watertight cap and a testing lever. The seat and clack undergo a hardening heat treatment that ensures a high resistance to erosion. This safety valve complies with the PN 16 pressure rating standard. It is certified by the TÜV and VERITAS approvals and can be used on steam, gas and liquids. Setting certificate and information folder, in compliance with the 1998 decree about the safety valves monitoring, are available on request.

Available Sizes
Flanged connections PN10/16: DN 20 to 150

Limits of Use

<table>
<thead>
<tr>
<th></th>
<th>40 bar</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max Allowable Pressure</td>
<td></td>
</tr>
<tr>
<td>Allowable Temperature</td>
<td>-10°C/+200°C</td>
</tr>
<tr>
<td>Max Body Pressure</td>
<td>PN16</td>
</tr>
</tbody>
</table>

DUCTILE IRON SAFETY VALVE 6301S

The 6301S safety valve is dedicated to protect the equipment from potential overpressure. This is an automatic device that closes when the pressure conditions are back to normal. It is a spring type safety valve with displaced ports and instantaneous exhaust. It has a cast iron construction. It is delivered sealed with a closed cover, a watertight cap and a testing lever. The seat and clack undergo a hardening heat treatment that ensures a high resistance to erosion. This safety valve complies with the PN 40 pressure rating standard. It is certified by the TÜV and VERITAS approvals and can be used on steam, gas and liquids. Setting certificate and information folder, in compliance with the 1998 decree about the safety valves monitoring, are available on request.

Available Sizes
Flanged connections PN40: DN 20 to 100

Limits of Use

<table>
<thead>
<tr>
<th></th>
<th>40 bar</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max Allowable Pressure</td>
<td></td>
</tr>
<tr>
<td>Allowable Temperature</td>
<td>-10°C/+200°C</td>
</tr>
<tr>
<td>Max Body Pressure</td>
<td>PN40</td>
</tr>
</tbody>
</table>
PRESSURE REDUCING VALVES

STAINLESS STEEL PRESSURE REDUCING VALVE PRVS

**Typical Use**
The Elite PRV-S stainless steel pressure reducing valve is dedicated to clean steam systems. Its stainless steel construction has FKM/PTFE tightness. The downstream pressure can be adjusted with the screw. The manometer allows checking the relieved pressure. This device only works if installed in the position indicated by the arrow marked on the body. The PRV-S is suitable for clean steam having no particles in suspension and has to be protected by a stainless steel strainer installed upstream.

**Available Sizes**
BSP threaded connections: 1/2" to 1"
PN16 flanged connections: DN15 to 25 according to EN 1092-1
Downstream adjustment range: 1-6 bar and 4-10 bar

**Limits of Use**

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Max Allowable Pressure</td>
<td>16 bar</td>
</tr>
<tr>
<td>Max Allowable Temperature</td>
<td>180°C</td>
</tr>
<tr>
<td>Use On Steam</td>
<td>9 bar / 180°C</td>
</tr>
<tr>
<td>Minimum Pressure</td>
<td>1 bar</td>
</tr>
<tr>
<td>Maximum Pressure</td>
<td>10 bar</td>
</tr>
</tbody>
</table>

DUCTILE IRON PRESSURE REDUCING VALVE BDV25

**Typical Use**
The direct-acting BDV25 pressure reducing valve is dedicated to applications on steam, compressed air and other gases. This device permits to lower the distribution system pressure to obtain the desired pressure for service. It has a compact ductile iron construction, with a built-in strainer and a high durability bellow. The downstream pressure can be easily adjusted thank to the thumbwheel. Non-tight device when mounted in-line. We recommend installing an upstream isolating valve.

**Limits of Use**

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Max Allowable Pressure</td>
<td>16 bar</td>
</tr>
<tr>
<td>Max Allowable Temperature</td>
<td>180°C</td>
</tr>
<tr>
<td>Use On Steam</td>
<td>9 bar / 180°C</td>
</tr>
<tr>
<td>Minimum Pressure</td>
<td>1 bar</td>
</tr>
<tr>
<td>Maximum Pressure</td>
<td>10 bar</td>
</tr>
</tbody>
</table>
OVERFLOW

BFS COAXIAL CAST IRON OVERFLOW 2470-2571

Typical Use

The BFS coaxial regulator is dedicated to the flow regulation and upstream pressure maintenance in common fluid pipes such as water pipes. With a simple and modern construction, it is especially designed for high flow conditions. The upstream pressure can be adjusted with a pilot valve and checked thanks to the pressure gauge. The BFS has to be protected by a strainer upstream. It has a cast iron body construction with brass internal parts and NBR tightness. Bottom-up flow direction, horizontal or vertical mounting.

Available Sizes

DN 50 to DN 350, Flanged connections PN 16 RF according to EN 1092-1
Adjustment range: 0.2 - 4 bar / 3 - 10 bar

Limits of Use

<table>
<thead>
<tr>
<th></th>
<th>Max Allowable Pressure</th>
<th>Min / Max Allowable Temperature</th>
<th>Max Upstream Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>16 bar</td>
<td>-10°C / 80°C</td>
<td>0.3 bar</td>
</tr>
</tbody>
</table>

Dimensions and Weight

<table>
<thead>
<tr>
<th>DN</th>
<th>L (mm)</th>
<th>A (mm)</th>
<th>Weight (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>50</td>
<td>190</td>
<td>180</td>
<td>12</td>
</tr>
<tr>
<td>65</td>
<td>210</td>
<td>185</td>
<td>15</td>
</tr>
<tr>
<td>80</td>
<td>225</td>
<td>200</td>
<td>18</td>
</tr>
<tr>
<td>100</td>
<td>250</td>
<td>222</td>
<td>24</td>
</tr>
<tr>
<td>125</td>
<td>280</td>
<td>235</td>
<td>32</td>
</tr>
<tr>
<td>150</td>
<td>310</td>
<td>260</td>
<td>44</td>
</tr>
<tr>
<td>200</td>
<td>420</td>
<td>300</td>
<td>87</td>
</tr>
<tr>
<td>250</td>
<td>470</td>
<td>335</td>
<td>152</td>
</tr>
<tr>
<td>300</td>
<td>530</td>
<td>370</td>
<td>202</td>
</tr>
<tr>
<td>350</td>
<td>600</td>
<td>415</td>
<td>285</td>
</tr>
</tbody>
</table>

Coefficient and Flowrate

<table>
<thead>
<tr>
<th>DN</th>
<th>50</th>
<th>65</th>
<th>80</th>
<th>100</th>
<th>125</th>
<th>150</th>
<th>200</th>
<th>250</th>
<th>300</th>
<th>350</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inches</td>
<td>2&quot;</td>
<td>2 1/2&quot;</td>
<td>3&quot;</td>
<td>4&quot;</td>
<td>5&quot;</td>
<td>6&quot;</td>
<td>8&quot;</td>
<td>10&quot;</td>
<td>12&quot;</td>
<td>14&quot;</td>
</tr>
<tr>
<td>Kv (m3/h)</td>
<td>65</td>
<td>91</td>
<td>121</td>
<td>225</td>
<td>337</td>
<td>476</td>
<td>865</td>
<td>1387</td>
<td>1903</td>
<td>2595</td>
</tr>
</tbody>
</table>
LEVEL GAUGES

BRASS LEVEL GAUGES SET L135

**Typical Use**
The brass level indicator L 135 is dedicated to the visual indication of a tank level. The indicator give a direct reading of the level through a transparent tube. It is provided with two needle valves allowing isolating the tube of reading. It can be equipped with plastic or glass transparent tube. The indicator L 135 is an economic solution to the level visualization of clean, not aggressive liquids, at low pressure and ambient temperature.

**Available Sizes**
- Diameters 1/4" to 3/4"  
- BSP Thread end connections

**Limits of Use**
<table>
<thead>
<tr>
<th>Pressure Fluid</th>
<th>Temperature Fluid</th>
</tr>
</thead>
<tbody>
<tr>
<td>10 bar</td>
<td>-10°C / +90°C</td>
</tr>
</tbody>
</table>

STAINLESS STEEL LEVEL GAUGES SET 2312

**Main Features**
- Body: F316  
- Closure Member: N/A  
- Connections: BSP - male  
- Specifications: Pipe not included, FKM & PTFE gaskets

**Operating Conditions**
- Fluids: For food industry  
- Pressure: 16 bar  
- Temperature: -50°C to +200°C

STAINLESS STEEL MAGNETIC LEVEL GAUGES SET MG33

**Main Features**
- Stainless steel body & float  
- Scale in aluminium  
- Plexiglas glass  
- Stainless steel flanges DN20 connection PN16  
- Stainless steel bottom flanges DN50, FKM gasket, 1/2" drain cap

**Operating Conditions**
- Fluids: For process industry  
- Max Pressure: 16 bar  
- Max Temp: +180°C
SIGHT GAUGES

BRASS SIGHT GLASS 2211-C158

**Typical Use**

Built in brass, the C158 sight glass is dedicated to the visual control and inspection of transparent fluids flow in pipes with low pressure and standard temperatures. With single glass construction, the C158 has a ball. The C158 is a one-way sight glass. The flow has to follow the arrow stamped on the body. It has to be mounted horizontally only.

**Available Sizes**

<table>
<thead>
<tr>
<th>Sizes</th>
</tr>
</thead>
<tbody>
<tr>
<td>3/8&quot; to 1&quot;</td>
</tr>
<tr>
<td>BSP threaded connections</td>
</tr>
</tbody>
</table>

**Limits of Use**

<table>
<thead>
<tr>
<th>Limits</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pressure</td>
<td>16 bar</td>
</tr>
<tr>
<td>Temperature</td>
<td>+80°C</td>
</tr>
</tbody>
</table>

CARBON STEEL BOROSILICATE GLASS 2235

**Main Features**

Body: A105. A105 baffle
Connections: RF PN40
Specifications: Double borosilicate glass

**Operating Conditions**

<table>
<thead>
<tr>
<th>Fluids</th>
<th>Steam</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pressure</td>
<td>40 bar up to DN20, 20 bar above</td>
</tr>
<tr>
<td>Temperature</td>
<td>+300°C max</td>
</tr>
</tbody>
</table>

FLOWMETER

STAINLESS STEEL MAGNETIC FLOWMETER 2284

**Typical Use**

Magnetic flow meters are dedicated to inline air, water and steam flow measurement. Readings of the flow can be made on the dial. Stainless steel 316 construction. BSP threaded connections. Vertical mounting, bottom-up vertical flow.

**Available Sizes**

<table>
<thead>
<tr>
<th>Sizes</th>
</tr>
</thead>
<tbody>
<tr>
<td>DN ½&quot; to 1&quot;1/2</td>
</tr>
<tr>
<td>Water flow from 0.4 to 4000 L/h</td>
</tr>
<tr>
<td>BSP threaded connections</td>
</tr>
</tbody>
</table>

**LIMITS of Use**

<table>
<thead>
<tr>
<th>Limits</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electric Protection</td>
<td>IP65</td>
</tr>
<tr>
<td>Fluid Pressure</td>
<td>10 bar</td>
</tr>
<tr>
<td>Fluid Temperature</td>
<td>-40°C / +180°C</td>
</tr>
<tr>
<td>Accuracy</td>
<td>+/- 2% full scale</td>
</tr>
</tbody>
</table>
CONTROL VALVES

PNEUMATIC ACTUATED CONTROL VALVES

**Typical Use**
Modulating or on-off control of liquids, gases, steam, and corrosive fluids, such as air or oil etc. in all industries. Due to the simplicity of design and the adaptability of the valve to different services, a wide sphere of applications can be covered. Application - Pressure, temperature, level, and flow control of liquids, gases, and steam.

**Available Sizes**

**FLY - 2 Way Pneumatic Control Valves**
*Pneumatic actuator normally closed or normally open type 3-15 psi*

**SM3V - 3 Way Pneumatic Control Valves**
*(mixing or diverting)*

**Cast Iron Body - Flanged PN16**
*Cast iron GS body - Pressure: 16 bar at 120°C / 13 bar at 200°C - Limited up to 180°C with standard gland packing*

**Carbon Steel Body - Flanged PN40**
*A216WCB body - Pressure 40 bar at 120°C / 10 bar at 400°C - Limited up to 180°C with standard gland packing*

**Stainless Steel Body - Flanged PN40**
*CF8M body - Pressure 40 bar at 120°C / 10 bar at 400°C - Limited up to 180°C with standard gland packing*

ATEX Approved available upon request

**Limits of Use**

<table>
<thead>
<tr>
<th>Flanged PN16</th>
<th>Max Temperature</th>
<th>Max Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>+180°C</td>
<td>16 bar at 120°C / 13 bar at 200°C</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Flanged PN40</th>
<th>Max Temperature</th>
<th>Max Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>+180°C</td>
<td>40 bar at 120°C / 10 bar at 400°C</td>
</tr>
</tbody>
</table>

**Main Features**

**Flanged PN16**
- Stainless steel 316 internal devices
- Screwed seat
- Reinforced PTFE check valve; tightness: class VI
- Reinforced PTFE packing gland with automatic compensation
- Pneumatic actuator normally closed or normally open type 3-15 psi
- Cast iron GS body

**Flanged PN40**
- Stainless steel 316 internal devices
- Screwed seat
- Reinforced PTFE check valve; tightness: class VI
- Reinforced PTFE packing gland with automatic compensation
- Pneumatic actuator normally closed or normally open type 3-15 psi
- A216WCB body
EVP

EVP AUTOMATIC SOLENOID VALVE

**Typical Use**

This solenoid valve model EVP/NC are gas interception, normally closed solenoid valves that automatically open when the coil is powered and closes when there is no tension. It can be controlled by a pressure switch, thermostat, etc. They can also be equipped with a flow regulator (model EVPF/NC). Use: Not aggressive gases of the 3 families (dry gases).

**Technical Information**

- Threaded connections Rp: (DN 15 ÷ DN 50) according to EN 10226
- Flanged connections PN 16: (DN 65 ÷ DN 100) according to ISO 7005
- Power supply voltage (DN 15 ÷ DN 25): 12 Vdc, 12 V/50 Hz, 24 Vdc, 24 V/50 Hz, 110 V/50 Hz, 230 V/50-60 Hz
- Power supply voltage (DN 32 ÷ DN 100): 24 Vdc, 24 V/50 Hz, 110 V/50 Hz, 230 V/50-60 Hz
- Power supply voltage tolerance: -15% to +10%
- Max working pressure: 360 mbar
- Environment temperature: -15 to +60°C
- Max temperature: 85°C
- Protection degree: IP65
- Class: A
- Group: 2
- Closing time: <1 s
- Opening time: <1 s

**Accessories Available**

**Thermal Link** - The electro fusible thermal link is designed to use where there are potential fire hazards, such as boiler or plant rooms. The link is electrically rated at 5 amps max on 200/250 VAC and melts at 68°C.

**Emergency stop button** – The emergency stop button is designed for manual shutdown of systems in the event of a fire or any other incident. The reset option can be used to prevent any unauthorised restarting of the system following an emergency shutdown.

**Closed position indicator switch** – The closed position indicator switch can be used this range of gas valves from ¾” upwards.
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