

# PRODUCT PROFILE

**High Quality Product**

**Valves, PICVs, Strainers,  
Flexible Connectors and Pipe  
Accessories**



**Specialist In Chilled Water and Water  
Systems Valves & Accessories**

## KIDS

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# KIDS

**KIDS** Established in 2007 as well established manufacturer of valves and pipe fittings for applications in building services and industries related to chilled water systems, potable water, other water distribution systems and crude oil, ...etc.

The **KIDS** Brand is synonymous with quality, reliability and service to the highest standard, and has industry experiences in many sectors including heating and ventilation, chemicals, and water system.

**KIDS** can supply a skillfully engineered solutions for every application. Flagship products include a full range of commissioning valves suitable for static and dynamic flow systems.



## QUALITY ASSURANCE

Quality control and inspections at all the stages of manufacture to ensure that **KIDS PA's** Products are manufactured with the related standards and to assure their suitability to use for the intended application and will provide the best reliable service.

All **KIDS** Products are manufactured under **ISO9001:2015** Certificate. In addition, the products has been certified and/or listed by third party organizations such as **ICIM-Italy**, **RTM Breda – Italy**, and **Water Regulations Advisory Scheme (WRAS) in United Kingdom**.

Our range of valves and accessories are available from **DN15 to DN2000** (depends on valve type and application), the material of construction for the products are in cast iron, ductile iron, carbon steel, stainless steel, bronze, DZR Brass, Brass....., etc., in a variety of alloys, trims, configuration, pressure classifications (**PN16, PN20, and PN25**), other higher pressure rating are available upon request.

**KIDS** Products are engineered and manufactured to stringent internationally approved and recognized accreditations. All valves are manufactured in accordance to the relevant **British and Europe Standards (BS and EN)**. **KIDS** is also provide specific rang of valves for public health usage, these products are certified by **WRAS-UK** and **RTM Breda-Italy**.

Our priority and emphasis is on quality and efficiency of our products. To this end all our products undergo individual and rigorous testing in accordance with its relevant product standard.

All products are subject to random test at the manufacturer's facilities in Italy and worldwide in accordance with **EN12266-1** prior to dispatch.



## PRESSURE INDEPENDENT CONTROL VALVES - PICV

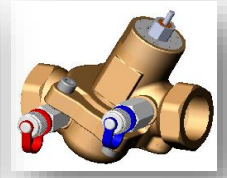
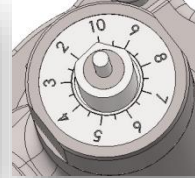
### Pressure Independent Control Valve

The KIDS Pressure Independent Control Valve (PICV) is a combination of constant flow limiter and full stroke, full authority linear / equal percentage temperature control valve. KIDS PICVs are suitable to use in variable and constant temperature systems.

### Operating principles

KIDS PICV is made up of three main parts:

1. Differential pressure regulator
2. Regulating valve for flow adjustment
3. Flow pre-setting knob



### Differential pressure regulator

The differential pressure regulator is the heart of the pressure independent control valve. By keeping a constant differential pressure across the valve seats constant flow and full authority temperature control can be achieved.

Incoming pressure is transmitted to the top face of the diaphragm, outgoing pressure is transmitted to the underside of this same diaphragm. A constant effective differential pressure is maintained. As the incoming pressure increases relative to outgoing pressure it acts on the diaphragm closing the shutter against a seat thereby lowering the effective differential pressure. As the incoming pressure decreases relative to outgoing pressure the diaphragm acts to open the shutter from the seat thus increasing the effective differential pressure. The diaphragm acts against a spring in order to balance the pressure control and stop the diaphragm oscillating.

			
<p><b>FIG. KBP25 PN25 PRESSURE INDEPENDENT CONTROL VALVE BRASS</b></p>	<p><b>FIG. KBP16 PN16 PRESSURE INDEPENDENT CONTROL VALVE BRASS</b></p>	<p><b>FIG. KIP16 PN16 PRESSURE INDEPENDENT CONTROL VALVE DUCTILE IRON</b></p>	<p><b>THERMAL ACTUATOR ON / OFF TYPE 230V AC, 50Hz IP54</b></p>
<p>PN Rating: PN16 Temp. Range: 0°C to 120°C Size DN15 TO DN25 ISO7-1 Threaded Ends</p>	<p>PN Rating: PN16 Temp. Range: 0°C to 120°C Size DN32 TO DN50 ISO7-1 Threaded Ends</p>	<p>PN Rating: PN16 Temp. Range: 0°C to 120°C Size DN65 TO DN300 ISO7005-2 Flanged Ends</p>	<p>Stroke Size: 5mm Torque: 100N Average Actuation: 30s/mm Type: Normally Close</p>
			
<p><b>THERMAL ACTUATOR MODULATING TYPE 24V AC/DC, 50Hz, IP54 0-10V DC CONTROL SIGNAL</b></p>	<p><b>MOTOR DRIVE ACTUATOR ON/OFF TYPE 230V AC, 50Hz IP54</b></p>	<p><b>MOTOR DRIVE ACTUATOR MODULATING TYPE 24V AC/DC, 50Hz, IP54 0-10V DC CONTROL SIGNAL</b></p>	<p><b>MOTOR DRIVE ACTUATOR MODULATING TYPE 24V AC/DC, 50Hz, IP54 0-10V DC CONTROL SIGNAL</b></p>
<p>Stroke Size: 5mm Torque: 100N Average Actuation: 30s/mm Type: Normally Close</p>	<p>Stroke Size: 8.5mm Torque: 100N/200N Average Actuation: 30s/mm LED Indicator</p>	<p>Stroke Size: 8.5mm Torque: 100N / 200N Average Actuation: 30s/mm LED Indicator with Display</p>	<p>Stroke Size: 30mm / 50mm Torque: 500N/1000N/3000N Average Actuation: 1s/mm LED indicator, Feedback Signal</p>


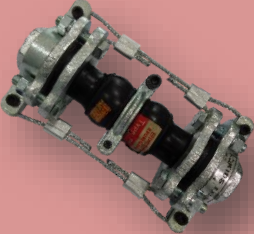


## BRONZE AND BRASS VALVES

			
<p><b>FIG. KBG20 PN20 GATE VALVE BRONZE</b></p>	<p><b>FIG. KBG20LS PN20 GATE VALVE BRONZE</b></p>	<p><b>FIG. KBL25 PN25 FULL PORT BALL VALVE BRONZE</b></p>	<p><b>FIG. KFDRV25 PN25 BRONZE FIXED ORIFICE DOUBLE REGULATING VALVE</b></p>
<p>PN Rating: PN20 Temp. Range: 0°C to 100°C Size ½" to 2" BS21 Threaded Ends</p>	<p>PN Rating: PN20 Temp. Range: 0°C to 100°C Size ½" to 2" BS21 Threaded Ends</p>	<p>PN Rating: PN25 Temp. Range: 0°C to 100°C Size ½" to 2" BS21 Threaded Ends</p>	<p>PN Rating: PN25 Temp. Range: 0°C to 100°C Size ½" to 2" BS21 Threaded Ends</p>
			
<p><b>FIG. KBCK20 PN20 SWING CHECK VALVE BRONZE</b></p>	<p><b>FIG. KBS25 PN25 'Y' PATTERN STRAINER BRONZE</b></p>	<p><b>FIG. KBS20 PN20 'Y' PATTERN STRAINER BRONZE</b></p>	<p><b>FIG. KBPRV20 PN20 PRESSURE REDUCING VALVE - BRONZE</b></p>
<p>PN Rating: PN20 Temp. Range: 0°C to 100°C Size ½" to 2" BS21 Threaded Ends</p>	<p>PN Rating: PN25 Temp. Range: 0°C to 100°C Size ½" to 2" BS21 Threaded Ends</p>	<p>PN Rating: PN20 Temp. Range: 0°C to 100°C Size ½" to 2" BS21 Threaded Ends</p>	<p>PN Rating: PN20 Temp. Range: 0°C to 70°C Size ½" to 2" BS21 Threaded Ends</p>
			
<p><b>FIG. KDC PN16 DRAIN COCK DZR BRASS</b></p>	<p><b>FIG. KAV PN10 AUTOMATIC AIR VENT BRASS</b></p>	<p><b>FIG. KTP PN25 P/T TEST POINTS DZR BRASS</b></p>	<p><b>FIG. KHB PN10 HOSE BIB TAP BRASS</b></p>
<p>PN Rating: PN16 Temp. Range: 0°C to 100°C Size ½" to 1" BS21 Threaded Ends</p>	<p>PN Rating: PN16 Temp. Range: 0°C to 100°C Size ½" to 1" BS21 Threaded Ends</p>	<p>PN Rating: PN25 Temp. Range: 0°C to 100°C Size ½" (8mm) BS21 Threaded Ends</p>	<p>PN Rating: PN10 Temp. Range: 0°C to 70°C Size ½" to 1" BS21 Threaded Ends</p>

## CAST & DUCTILE IRON VALVES

			
<p><b>FIG. KIG16 PN16 GATE VALVE – METAL SEAT CAST IRON</b></p>	<p><b>FIG. KIRIG16 PN16 GATE VALVE – RESILIENT SEAT DUCTILE IRON</b></p>	<p><b>FIG. KIG16RS PN16 GATE VALVE – OS&amp;Y CAST IRON</b></p>	<p><b>FIG. KIDRV16FO PN16 DUCTILE IRON FIXED ORIFICE DOUBLE REGULATING VALVE</b></p>
<p>PN Rating: PN16 Temp. Range: 0°C to 120°C Size DN65 TO DN300 BS EN1092-2 PN16 Flanged Ends</p>	<p>PN Rating: PN16 Temp. Range: 0°C to 120°C Size DN65 TO DN300 BS EN1092-2 PN16 Flanged Ends</p>	<p>PN Rating: PN16 Temp. Range: 0°C to 120°C Size DN65 TO DN300 BS EN1092-2 PN16 Flanged Ends</p>	<p>PN Rating: PN16 Temp. Range: 0°C to 120°C Size DN65 TO DN300 BS EN1092-2 PN16 Flanged Ends</p>
			
<p><b>FIG. KBFV16L PN16 FULLY LUG BUTTERFLY VALVE DUCTILE IRON</b></p>	<p><b>FIG. KBFV16LG PN16 FULLY LUG BUTTERFLY VALVE DUCTILE IRON</b></p>	<p><b>FIG. KBFV16W PN16 SEMI LUG BUTTERFLY VALVE DUCTILE IRON</b></p>	<p><b>FIG. KBFV16WG PN16 SEMI LUG BUTTERFLY VALVE DUCTILE IRON</b></p>
<p>PN Rating: PN16 Temp. Range: 0°C to 120°C Size DN65 TO DN200 BS EN1092-2 PN16 Flanged Ends</p>	<p>PN Rating: PN16 Temp. Range: 0°C to 120°C Size DN250 TO DN600 BS EN1092-2 PN16 Flanged Ends</p>	<p>PN Rating: PN16 Temp. Range: 0°C to 120°C Size DN65 TO DN200 TO SUITE BS EN1092-2 FLANGES</p>	<p>PN Rating: PN16 Temp. Range: 0°C to 120°C Size DN250 TO DN600 TO SUITE BS EN1092-2 FLANGES</p>
			
<p><b>FIG. KIDDCK16 PN16 WAFER CHECK VALVE-NRV DUCTILE IRON</b></p>	<p><b>FIG. KISCK16 PN16 SWING CHECK VALVE-NRV DUCTILE IRON</b></p>	<p><b>FIG. KIS16 PN16 'Y' PATTERN STRAINER CAST IRON</b></p>	<p><b>FIG. KSSM16 PN16 METERING STATION STAINLESS STEEL</b></p>
<p>PN Rating: PN16 Temp. Range: 0°C to 120°C Size DN65 TO DN600 TO SUITE BS EN1092-2 FLANGES</p>	<p>PN Rating: PN16 Temp. Range: 0°C to 120°C Size DN65 TO DN300 BS EN1092-2 PN16 Flanged Ends</p>	<p>PN Rating: PN16 Temp. Range: 0°C to 120°C Size DN65 TO DN600 BS EN1092-2 PN16 Flanged Ends</p>	<p>PN Rating: PN16 Temp. Range: 0°C to 120°C Size DN65 TO DN600 TO SUITE BS EN1092-2 FLANGES</p>

## RUBBER FLEXIBLE CONNECTORS

			
<b>FIG. KUC16 PN16</b> <b>FLEXIBLE CONNECTOR</b> TWIN SPHERE RUBBER (EPDM)	<b>FIG. KUC25LW</b> <b>FLEXIBLE CONNECTOR</b> TWIN SPHERE RUBBER (EPDM)	<b>FIG. KFC16 PN16</b> <b>FLEXIBLE CONNECTOR</b> SINGLE SPHERE RUBBER (EPDM)	<b>FIG. KFC16CR PN16</b> <b>FLEXIBLE CONNECTOR</b> SINGLE SPHERE RUBBER (EPDM)
PN Rating: PN16 Temp. Range: 0°C to 120°C Size ½" to 2" BS21 Union Threaded Ends	PN Rating: PN25 Temp. Range: 0°C to 120°C Size ½" to 2" BS21 Union Threaded Ends	PN Rating: PN16 Temp. Range: 0°C to 120°C Size DN65 TO DN600 BS EN1092-2 PN16 Flanged Ends	PN Rating: PN16 Temp. Range: 0°C to 120°C Size DN65 TO DN600 BS EN1092-2 PN16 Flanged Ends

## PUBLIC HEALTH RANGE (WRAS / RTM Breda Certified Products)

 	 	 	 
<b>FIG. KBG20 PN20</b> <b>GATE VALVE</b> BRONZE	<b>FIG. KBG20LS PN20</b> <b>GATE VALVE</b> BRONZE	<b>FIG. KBL25 PN25</b> <b>FULL PORT BALL VALVE</b> BRONZE	<b>FIG. KFDRV25 PN25</b> <b>BRONZE FIXED ORIFICE DOUBLE</b> <b>REGULATING VALVE</b>
Temp. Range: 0°C to 100°C Size ½" to 2" BS21 Threaded Ends	Temp. Range: 0°C to 100°C Size ½" to 2" BS21 Threaded Ends	Temp. Range: 0°C to 100°C Size ½" to 2" BS21 Threaded Ends	Temp. Range: 0°C to 100°C Size ½" to 2" BS21 Threaded Ends
 	 	 	 
<b>FIG. KBG20 PN20</b> <b>GATE VALVE</b> BRONZE	<b>FIG. KBFV16W PN16</b> <b>SEMI LUG BUTTERFLY VALVE</b> DUCTILE IRON	<b>FIG. KBL25 PN25</b> <b>FULL PORT BALL VALVE</b> BRONZE	<b>FIG. KFDRV25 PN25</b> <b>BRONZE FIXED ORIFICE DOUBLE</b> <b>REGULATING VALVE</b>
Temp. Range: 0°C to 100°C Size ½" to 2" BS21 Threaded Ends	Temp. Range: 0°C to 120°C Size DN65 TO DN200 TO SUITE BS EN1092-2 FLANGES	Temp. Range: 0°C to 100°C Size ½" to 2" BS21 Threaded Ends	Temp. Range: 0°C to 100°C Size ½" to 2" BS21 Threaded Ends





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