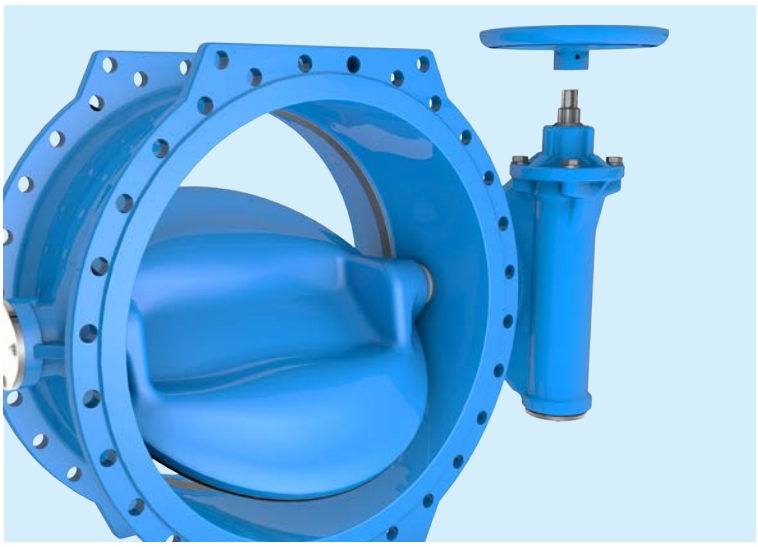
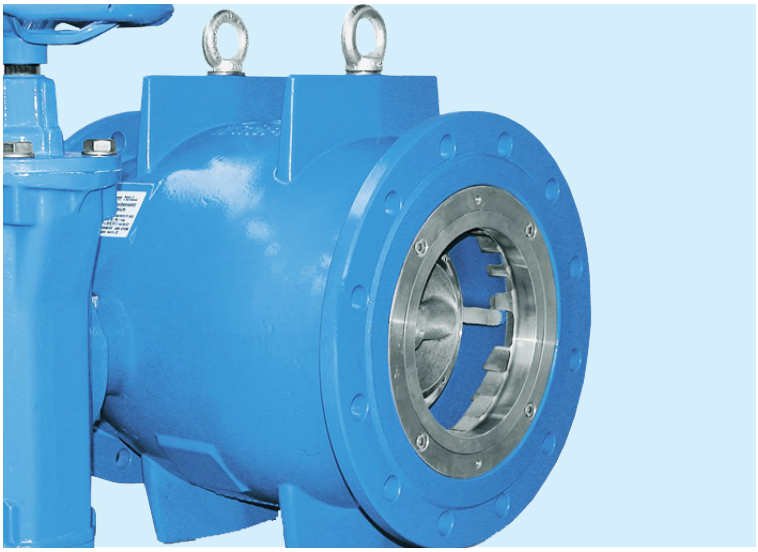
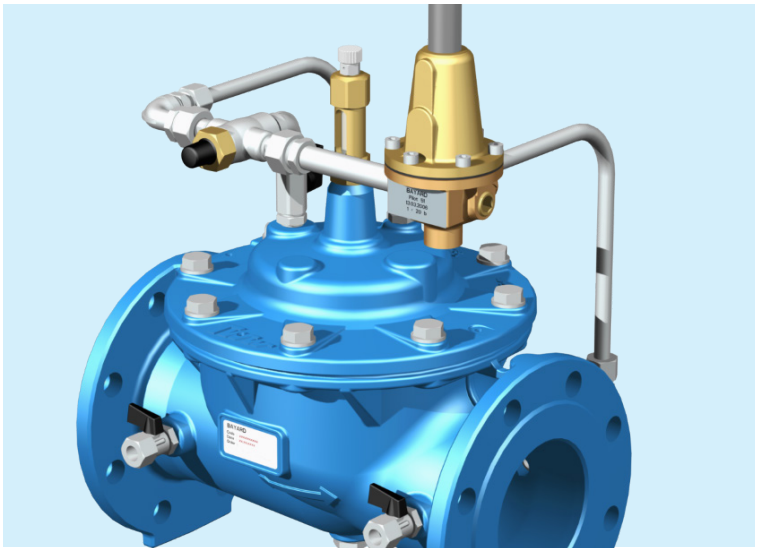
TALIS

Valve Catalogue







Our job is to protect water, the element that is vital for life. Together with our customers and partners, we are living up to this responsibility all over the world. Our ideas, work and products are the driving force for this.

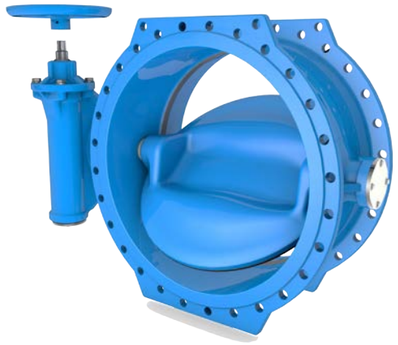
Using the latest technologies, we are helping to develop responsible supply and disposal systems. Exemplary standards guarantee efficiency. Making use of the power, purity and availability of water is our maxim.

For generations our globally recognised brands have been proof of this ability. Our knowledge has grown along with our customers. In Europe, Africa, Asia, Australia and America our products are helping to guarantee not only the safety of water but also operations and investments. We can provide probably the most comprehensive range of products for the water and sewage industry. With a broad range of products, from small air valves to the huge DN 3600 butterfly valve, TALIS has the right product for every job. TALIS also has the engineering expertise to configure products to specifically match our customer's requirements.

We are fully motivated and committed to continue working on these achievements and responsibilities of today and tomorrow: for our future – water.

Contents

Bufferfly Valves
ROCO Wave



DN 80-1400
PN 10-25

The ROCO Wave butterfly valve is establishing a new standard as it ensures top values in terms of safety, economic efficiency and durability, using innovative detailed solutions.

The ROCO Wave buttefly valve can be used in a wide range of applications, either small or large. What's more, it is suitable for drinking water, water treatment, water transmission, water distribution networks, dams and hydro power, fire protection network, industrial network, industrial water applications, sewage and treatment.

FEATURES & BENEFITS

- Wave shaped disc ensures smooth flow and non-reduced diameter at seat area through the butterfly valve
- Connection by polygon without additional security elements
- Slider Crank Gearbox SKG: the gearbox with patented technology inside reduces size of electric actuator. SKG can provide the required torque to fully operate the butterfly valve with a smaller electric actuator than a conventional worm gearbox
- Minimised headloss factor zeta
- Higher flow rate coefficient Kv
- Seat geometry ensures large opening area and high flow rate through the butterfly valve
- ISO-connection for drive
- Robust, maintenance-free slider crank mechanism
- High quality of coating systems - FBE or Enamel in order to minimise corrosion
- Significant minimisation of pressure surges
- Ensures best possible reliable torque transmission
- Drinking water up to DN1600, PN16
- Temperature -10°c up to + 60°c

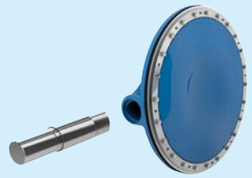
OPTIONS

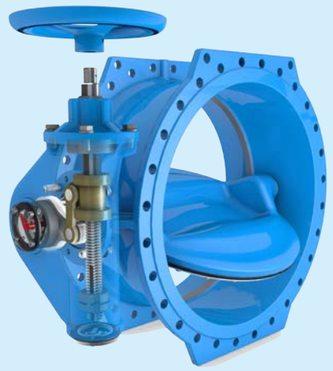
- Pressure ratings PN10, 16, 25, 40
- Prepared for actuation or supplied complete with actuation
- NBR seals available for sewage
- Enamel coated internally or completely enamel coated
- ERHARD enamelling (colour shade: "blue") or pre-enamelled using ERHARD Pro-Enamel
- Further coating variants are possible
- Lockable hand wheels
- Limit switch on the gear box
- Other materials on request
- Special coating systems available: EPC- epoxy polymer ceramic. ATEX- coated. Rubbered

STANDARDS

- WRAS approved product
- Housing: Cast iron with spherical graphite EN-JS 1030
- Disc: soft-sealed and double-eccentric mounted, made of cast iron with spherical graphite EN-JS 1030
- Gearbox with slider-crank mechanism (SKG): protection class IP68
- Gear housing: cast iron with spheroidal graphite EN-JL 1040 / Epoxy
- Corrosion protection of housing parts: heavy-duty corrosion protection according to quality assurance RAL-GZ 662 (GSK)
- Resilient seated according EN 593
- Face-to-face dimension according EN 558, 14 (F4)
- Flange connection according EN 1092-2
- P1-bushes according DIN ISO 3547
- Severe corrosion protection according DIN 30677-2
- Severe corrosion protection according GSK (community severe corrosion protection)

Butterfly Valve
ROCO Wave





The ROCO Wave butterfly valve benefits include energy efficiency, the quality of drinking water along with its extended life time and lower maintenance requirements and cost. The innovative disc design, which names the valve, is one of the eye-catching details.

The wave phenomenon for seamless opening and closing

The valve comes with two disc designs – the ROCO's principle wave disc is the best for standard pressure ratings and small diameter valves. The curved wave shape of the ROCO Wave butterfly valve makes it ideal for seamless opening and closing without resistance.

The new 'Skeleton' butterfly disc has been designed for stability and to optimise flow performance for larger diameter valves and higher pressure ratings. As a result, the valves can be operated with the least possible pumping capacity, ensuring permanently low operating costs.

Together with the large seat diameters the ROCO Wave butterfly valve has excellent flow rates, lowest headlosses and allows very low operating cost for the pumps. In times of rising energy costs this is an important feature of this new generation of valves

Polygon connection ensuring uninterrupted corrosion protection

Fixation by polygon ensures the best possible torque transmissions. It also allows for no additional fixation materials along with the closed bearing hub. This allows for uninterrupted corrosion protection for clean potable water.

To ensure the highest quality of potable water the ROCO wave only uses materials which conform to the newest DVGW guidelines. Corrosion prevention is an important feature to increase the quality of potable water. The valve body and disc are 100% protected from the medium so that no corrosion occurs. As standard protection the ROCO wave uses the proven epoxy resin coating, the ERHARD-ProEnamel has been especially developed for valves with higher requirements.

Improved slider-crank gearbox, minimising pressure surges and leakages

The addition of the improved slider-crank mechanism (SKG) gearbox helps to operate the butterfly disc and helps to slow down the valve's closing speed. This new feature ensures the valve is closed softly, helping to minimise the danger of pressure surges and leaks.

Six topics define the quality of butterfly valves and the new ROCO Wave butterfly valve, all tasks are performed to the highest degree.

Advantages of the ROCO Wave

Dynamics: Flow-optimised claü discs and internal housing contours ensure stability in any size and highest economic efficiency at the same time.

Precision: The gearbox with slider-crank mechanism ideally matches the torque curve of the disc and reliably reduces pressure surges due to slowed closing.

Power: The polygon plug connection reliably transmits the drive forces without any play or fluttering.

Protection: High-quality coatings in EKB and Enamel as well as a wide range of special coatings ensure long-term protection for any application.

Safety: Reliable and maintenance-friendly sealing elements take care of high operational safety an low maintenance effort.

Size: Nominal diameters from DN 80 to DN 1400 and pressure ratings from PN 10 to PN 25 offer solutions for every task.

Double Flanged Butterfly Valves - Hand Wheel operated, PN16 Clockwise Close

PART NUMBER	DESCRIPTION	DN mm	PN
BVW/CC/0080	80mm Butterfly Valve Long Patterned - Hand Wheel operation Clockwise Close	DN80	PN16
BVW/CC/0100	100mm Butterfly Valve Long Patterned - Hand Wheel operation Clockwise Close	DN100	PN16
BVW/CC/0125	125mm Butterfly Valve Long Patterned - Hand Wheel operation Clockwise Close	DN125	PN16
BVW/CC/0150	150mm Butterfly Valve Long Patterned - Hand Wheel operation Clockwise Close	DN150	PN16
BVW/CC/0200	200mm Butterfly Valve Long Patterned - Hand Wheel operation Clockwise Close	DN200	PN16
BVW/CC/0250	250mm Butterfly Valve Long Patterned - Hand Wheel operation Clockwise Close	DN250	PN16
BVW/CC/0300	300mm Butterfly Valve Long Patterned - Hand Wheel operation Clockwise Close	DN300	PN16
BVW/CC/0350	350mm Butterfly Valve Long Patterned - Hand Wheel operation Clockwise Close	DN350	PN16
BVW/CC/0400	400mm Butterfly Valve Long Patterned - Hand Wheel operation Clockwise Close	DN400	PN16
BVW/CC/0450	450mm Butterfly Valve Long Patterned - Hand Wheel operation Clockwise Close	DN450	PN16
BVW/CC/0500	500mm Butterfly Valve Long Patterned - Hand Wheel operation Clockwise Close	DN500	PN16
BVW/CC/0600	600mm Butterfly Valve Long Patterned - Hand Wheel operation Clockwise Close	DN600	PN16
BVW/CC/0700	700mm Butterfly Valve Long Patterned - Hand Wheel operation Clockwise Close	DN700	PN16
BVW/CC/0800	800mm Butterfly Valve Long Patterned - Hand Wheel operation Clockwise Close	DN800	PN16
BVW/CC/0900	900mm Butterfly Valve Long Patterned - Hand Wheel operation Clockwise Close	DN900	PN16
BVW/CC/1000	1000mm Butterfly Valve Long Patterned - Hand Wheel operation Clockwise Close	DN1000	PN16
BVW/CC/1200	1200mm Butterfly Valve Long Patterned - Hand Wheel operation Clockwise Close	DN1200	PN16
BVW/CC/1400	1400mm Butterfly Valve Long Patterned - Hand Wheel operation Clockwise Close	DN1400	PN16

Double Flanged Butterfly Valves - Prepared for Actuation, PN16 Clockwise Close

PART NUMBER	DESCRIPTION	DN mm	PN
BVW/CC/0080/ACT	80mm Butterfly Valve Long Patterned - Prepared for Actuation Clockwise Close	DN80	PN16
BVW/CC/0100/ACT	100mm Butterfly Valve Long Patterned - Prepared for Actuation Clockwise Close	DN100	PN16
BVW/CC/0125/ACT	125mm Butterfly Valve Long Patterned - Prepared for Actuation Clockwise Close	DN125	PN16
BVW/CC/0150/ACT	150mm Butterfly Valve Long Patterned - Prepared for Actuation Clockwise Close	DN150	PN16
BVW/CC/0200/ACT	200mm Butterfly Valve Long Patterned - Prepared for Actuation Clockwise Close	DN200	PN16
BVW/CC/0250/ACT	250mm Butterfly Valve Long Patterned - Prepared for Actuation Clockwise Close	DN250	PN16
BVW/CC/0300/ACT	300mm Butterfly Valve Long Patterned - Prepared for Actuation Clockwise Close	DN300	PN16
BVW/CC/0350/ACT	350mm Butterfly Valve Long Patterned - Prepared for Actuation Clockwise Close	DN350	PN16
BVW/CC/0400/ACT	400mm Butterfly Valve Long Patterned - Prepared for Actuation Clockwise Close	DN400	PN16
BVW/CC/0450/ACT	450mm Butterfly Valve Long Patterned - Prepared for Actuation Clockwise Close	DN450	PN16
BVW/CC/0500/ACT	500mm Butterfly Valve Long Patterned - Prepared for Actuation Clockwise Close	DN500	PN16
BVW/CC/0600/ACT	600mm Butterfly Valve Long Patterned - Prepared for Actuation Clockwise Close	DN600	PN16
BVW/CC/0700/ACT	700mm Butterfly Valve Long Patterned - Prepared for Actuation Clockwise Close	DN700	PN16
BVW/CC/0800/ACT	800mm Butterfly Valve Long Patterned - Prepared for Actuation Clockwise Close	DN800	PN16
BVW/CC/0900/ACT	900mm Butterfly Valve Long Patterned -Prepared for Actuation Clockwise Close	DN900	PN16
BVW/CC/1000/ACT	1000mm Butterfly Valve Long Patterned - Prepared for Actuation Clockwise Close	DN1000	PN16
BVW/CC/1100/ACT	1100mm Butterfly Valve Long Patterned - Prepared for Actuation Clockwise Close	DN1100	PN16
BVW/CC/1200/ACT	1200mm Butterfly Valve Long Patterned - Prepared for Actuation Clockwise Close	DN1200	PN16
BVW/CC/1400/ACT	1400mm Butterfly Valve Long Patterned - Prepared for Actuation Clockwise Close	DN1400	PN16

Double Flanged Butterfly Valves - Handwheel Operated PN10 Clockwise Close

PART NUMBER	DESCRIPTION	DN mm	PN
BVW/CC/0200PN10/HW	200mm Butterfly Valve Long Patterned - Handwheel Operated Clockwise Close	DN200	PN10
BVW/CC/0250PN10/HW	250mm Butterfly Valve Long Patterned -Handwheel Operated Clockwise Close	DN250	PN10
BVW/CC/0300PN10/HW	300mm Butterfly Valve Long Patterned - Handwheel Operated Clockwise Close	DN300	PN10
BVW/CC/0350PN10/HW	350mm Butterfly Valve Long Patterned - Handwheel Operated Clockwise Close	DN350	PN10
BVW/CC/0400PN10/HW	400mm Butterfly Valve Long Patterned - Handwheel Operated Clockwise Close	DN400	PN10
BVW/CC/0450PN10/HW	450mm Butterfly Valve Long Patterned - Handwheel Operated Clockwise Close	DN450	PN10
BVW/CC/0500PN10/HW	500mm Butterfly Valve Long Patterned - Handwheel Operated Clockwise Close	DN500	PN10
BVW/CC/0600PN10/HW	600mm Butterfly Valve Long Patterned - Handwheel Operated Clockwise Close	DN600	PN10
BVW/CC/0700PN10/HW	700mm Butterfly Valve Long Patterned - Handwheel Operated Clockwise Close	DN700	PN10
BVW/CC/0800PN10/HW	800mm Butterfly Valve Long Patterned - Handwheel Operated Clockwise Close	DN800	PN10
BVW/CC/0900PN10/HW	900mm Butterfly Valve Long Patterned - Handwheel Operated Clockwise Close	DN900	PN10
BVW/CC/1000PN10/HW	1000mm Butterfly Valve Long Patterned - Handwheel Operated Clockwise Close	DN1000	PN10
BVW/CC/1200PN10/HW	1200mm Butterfly Valve Long Patterned - Handwheel Operated Clockwise Close	DN1200	PN10
BVW/CC/1400PN10	1400mm Butterfly Valve Long Patterned - Cap Top Operated Clockwise Close	DN1400	PN10

Double Flanged Butterfly Valves - Prepared for Actuation, PN10 Clockwise Close

PART NUMBER	DESCRIPTION	DN mm	PN
BVW/CC/0200PN10/ACT	200mm Butterfly Valve Long Patterned -- Prepared for Actuation Clockwise Close	DN200	PN10
BVW/CC/0250PN10/ACT	250mm Butterfly Valve Long Patterned - Prepared for Actuation Clockwise Close	DN250	PN10
BVW/CC/0300PN10/ACT	300mm Butterfly Valve Long Patterned - Prepared for Actuation Clockwise Close	DN300	PN10
BVW/CC/0350PN10/ACT	350mm Butterfly Valve Long Patterned - Prepared for Actuation Clockwise Close	DN350	PN10
BVW/CC/0400PN10/ACT	400mm Butterfly Valve Long Patterned - Prepared for Actuation Clockwise Close	DN400	PN10
BVW/CC/0450PN10/ACT	450mm Butterfly Valve Long Patterned - Prepared for Actuation Clockwise Close	DN450	PN10
BVW/CC/0500PN10/ACT	500mm Butterfly Valve Long Patterned - Prepared for Actuation Clockwise Close	DN500	PN10
BVW/CC/0600PN10/ACT	600mm Butterfly Valve Long Patterned - Prepared for Actuation Clockwise Close	DN600	PN10
BVW/CC/0700PN10/ACT	700mm Butterfly Valve Long Patterned -Prepared for Actuation Clockwise Close	DN700	PN10
BVW/CC/0800PN10/ACT	800mm Butterfly Valve Long Patterned - Prepared for Actuation Clockwise Close	DN800	PN10
BVW/CC/0900PN10/ACT	900mm Butterfly Valve Long Patterned - Prepared for Actuation Clockwise Close	DN900	PN10
BVW/CC/1000PN10/ACT	1000mm Butterfly Valve Long Patterned - Prepared for Actuation Clockwise Close	DN1000	PN10
BVW/CC/1200PN10/ACT	1200mm Butterfly Valve Long Patterned - Prepared for Actuation Clockwise Close	DN1200	PN10
BVW/CC/1400PN10/ACT	1400mm Butterfly Valve Long Patterned - Prepared for Actuation Clockwise Close	DN1400	PN10

Butterfly Valves
Coating

Whether in plants or mounted in the ground, whether for drinking water or for aggressive media – butterfly valves must reliably function in a wide variety of different mounting situations. ERHARD ROCO wave valves offer perfect surface protection.

- The proven ERHARD EKB epoxy plastic coating [1]according to GSK requirements is suitable for a lot of applications, e.g. in the plant area, for drinking water and waste water. Layer thicknesses with more than 250 µm comply with all test conditions according to GSK.

- The perfect corrosion protection is provided by ERHARD Pro Enamel [2]. It is thus ideal for plants mounted into the ground for drinking water supply. As a high-tensile glassy material, enamel forms an inseparable bond with the metallic substrate. With ERHARD Pro-Enamel, short fibres in the material stop the enamel from cracking in case of any damage. Its extremely smooth surface area ensures best hygienic conditions and simultaneously and ideal mating face for elastomer seals. Combinations of EKB and Enamel are also available [3].

- Individual solutions – also for special fields of application - are offered by our special coatings. Examples include EPC (Epoxy Polymer Ceramic), which is particularly suitable for abrasive media or sea water, the ERHARD hard or soft rubber coating on the inside in case of chemical, thermal and mechanical exposure, individual colour coatings [4] using PU lacquers for increased operational security, or conductive special coatings according to ATEX guidelines [5].

1

2

3

4

5

Butterfly Valves

Flanged

Lug

Wafer

The purpose of butterfly valves is to reliably start and stop the flow of media safely and at any time. They have numerous advantages compared to other types of valves. Our butterfly valves are suitable, among other things, for drinking water, non-drinking water, gas and air as well as for wastewater and suspensions. This results in fields of application in drinking water extraction, production and distribution, in water transport, wastewater engineering and gas supply as well as in industry.

FEATURES & BENEFITS

- Replaceable liner
- Easy maintenance
- Low operating torque
- Centred shaft
- Bidirectional flow
- Rubber lined
- Complete protection of the shaft and body from circulating fluids
- For clean water with temperature from -10°C to +80°C (special manufacturing for other fluids and temperatures upon request)
- Blue Ral 5015 anticorrosive epoxy powder coating electrostatically applied, 200 microns average
- Class tightness Rate A according to EN 12266-1 ("0 drops")

OPTIONS

- Prepared for actuation
- Liner and disk materials
- Lever operated
- Other materials upon request

STANDARDS

Body:
EN GIS-400-15 (GGG-40)

Disc: EN GIS-400-15 (GGG-40)
AISI-904L
Halar coating
Hastelloy C276
Duplex ASTM A890 Gr 5A

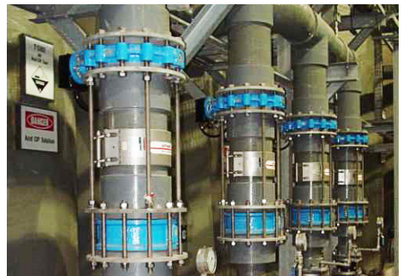
Shaft:
*AISI-420
AISI-316
AISI-316-L

Design:
EN 558 (DIN 3202 K-1)
BS 5155
MSS-SP-67
API 609
NFE 29305
Design and performance requirement according to EN-1074

Face to face-
ISO 5752 Series 20
DIN 3202 K-1

Flange standard:
EN 1092
PN6-10-16
ANSI-150
BS TABLE D/E
JIS 5K/10K (up to DN300 for bigger sizes upon request)

*standard material



Butterfly Valves

Flanged
DN 250 -1200
PN 16

Flanged butterfly valves can be used for water transmission, cooling, water intake, pumping and pipe burst shut off valve.

STANDARDS
- Body and disk: GGG40, GGG40/CF8M
- Upper and lower shaft STEEL AISI-420 (DN250-DN600)
- Upper and lower stem (DN700-DN1800) AISI-420

Butterfly Valves- Flanged Wafer Type Stainless Steel Disc Bare Shaft EPDM

PART NUMBER	DESCRIPTION	DN mm	PN
IPRART12/250373BS	250mm Flanged Wafer Type Butterfly Valve Stainless Steel Disc Bare Shaft	DN250	PN 16
IPRART12/300373BS	300mm Flanged Wafer Type Butterfly Valve Stainless Steel Disc Bare Shaft	DN300	PN 16
IPRART12/350373BS	350mm Flanged Wafer Type Butterfly Valve Stainless Steel Disc Bare Shaft	DN350	PN 16
IPRART12/400373BS	400mm Flanged Wafer Type Butterfly Valve Stainless Steel Disc Bare Shaft	DN400	PN 16
IPRART12/450373BS	450mm Flanged Wafer Type Butterfly Valve Stainless Steel Disc Bare Shaft	DN450	PN 16
IPRART12/500373BS	500mm Flanged Wafer Type Butterfly Valve Stainless Steel Disc Bare Shaft	DN500	PN 16
IPRART12/600373BS	600mm Flanged Wafer Type Butterfly Valve Stainless Steel Disc Bare Shaft	DN600	PN 16
IPRART12/700373BS	700mm Flanged Wafer Type Butterfly Valve Stainless Steel Disc Bare Shaft	DN700	PN 16
IPRART12/800373BS	800mm Flanged Wafer Type Butterfly Valve Stainless Steel Disc Bare Shaft	DN800	PN 16
IPRART12/900373BS	900mm Flanged Wafer Type Butterfly Valve Stainless Steel Disc Bare Shaft	DN900	PN 16
IPRART12/1000373BS	1000mm Flanged Wafer Type Butterfly Valve Stainless Steel Disc Bare Shaft	DN1000	PN 16
IPRART12/1200373BS	1200mm Flanged Wafer Type Butterfly Valve Stainless Steel Disc Bare Shaft	DN1200	PN 16

Butterfly Valves-Flanged Wafer Type Ductile Iron Disc C/W Gearbox and Handwheel EPDM

PART NUMBER	DESCRIPTION	DN mm	PN
IPRART12/250370GB	250mm Flanged Wafer Type Butterfly Valve Ductile Iron Disc C/W Gearbox and Handwheel	DN250	PN 16
IPRART12/300370GB	300mm Flanged Wafer Type Butterfly Valve Ductile Iron Disc C/W Gearbox and Handwheel	DN300	PN 16
IPRART12/350370GB	350mm Flanged Wafer Type Butterfly Valve Ductile Iron Disc C/W Gearbox and Handwheel	DN350	PN 16
IPRART12/400370GB	400mm Flanged Wafer Type Butterfly Valve Ductile Iron Disc C/W Gearbox and Handwheel	DN400	PN 16
IPRART12/450370GB	450mm Flanged Wafer Type Butterfly Valve Ductile Iron Disc C/W Gearbox and Handwheel	DN450	PN 16
IPRART12/500370GB	500mm Flanged Wafer Type Butterfly Valve Ductile Iron Disc C/W Gearbox and Handwheel	DN500	PN 16
IPRART12/600370GB	600mm Flanged Wafer Type Butterfly Valve Ductile Iron Disc C/W Gearbox and Handwheel	DN600	PN 16
IPRART12/700370GB	700mm Flanged Wafer Type Butterfly Valve Ductile Iron Disc C/W Gearbox and Handwheel	DN700	PN 16
IPRART12/800370GB	800mm Flanged Wafer Type Butterfly Valve Ductile Iron Disc C/W Gearbox and Handwheel	DN800	PN 16
IPRART12/900370GB	900mm Flanged Wafer Type Butterfly Valve Ductile Iron Disc C/W Gearbox and Handwheel	DN900	PN 16
IPRART12/1000370GB	1000mm Flanged Wafer Type Butterfly Valve Ductile Iron Disc C/W Gearbox and Handwheel	DN1000	PN 16
IPRART12/1200370GB	1200mm Flanged Wafer Type Butterfly Valve Ductile Iron Disc C/W Gearbox and Handwheel	DN1200	PN 16

Butterfly Valves-Flanged Wafer Type Stainless Steel Disc C/W Gearbox and Handwheel EPDM

PART NUMBER	DESCRIPTION	DN mm	PN
IPRART12/250373GB	250mm Flanged Wafer Type Butterfly Valves Stainless Steel Disc C/W Gearbox and Handwheel	DN250	PN 16
IPRART12/300373GB	300mm Flanged Wafer Type Butterfly Valves Stainless Steel Disc C/W Gearbox and Handwheel	DN300	PN 16
IPRART12/350373GB	350mm Flanged Wafer Type Butterfly Valves Stainless Steel Disc C/W Gearbox and Handwheel	DN350	PN 16
IPRART12/400373GB	400mm Flanged Wafer Type Butterfly Valves Stainless Steel Disc C/W Gearbox and Handwheel	DN400	PN 16
IPRART12/450373GB	450mm Flanged Wafer Type Butterfly Valves Stainless Steel Disc C/W Gearbox and Handwheel	DN450	PN 16
IPRART12/500373GB	500mm Flanged Wafer Type Butterfly Valves Stainless Steel Disc C/W Gearbox and Handwheel	DN500	PN 16
IPRART12/600373GB	600mm Flanged Wafer Type Butterfly Valves Stainless Steel Disc C/W Gearbox and Handwheel	DN600	PN 16
IPRART12/700373GB	700mm Flanged Wafer Type Butterfly Valves Stainless Steel Disc C/W Gearbox and Handwheel	DN700	PN 16
IPRART12/800373GB	800mm Flanged Wafer Type Butterfly Valves Stainless Steel Disc C/W Gearbox and Handwheel	DN800	PN 16
IPRART12/900373GB	900mm Flanged Wafer Type Butterfly Valves Stainless Steel Disc C/W Gearbox and Handwheel	DN900	PN 16
IPRART12/1000373GB	1000mm Flanged Wafer Type Butterfly Valves Stainless Steel Disc C/W Gearbox and Handwheel	DN1000	PN 16
IPRART12/1200373GB	1200mm Flanged Wafer Type Butterfly Valves Stainless Steel Disc C/W Gearbox and Handwheel	DN1200	PN 16

Butterfly Valves-Flanged Wafer Type Ductile Iron Disc Bare Shaft EPDM

PART NUMBER	DESCRIPTION	DN mm	PN
IPRART12/250370BS	250mm Flanged Wafer Type Butterfly Valves Ductile Iron Disc Bare Shaft	DN250	PN 16
IPRART12/300370BS	300mm Flanged Wafer Type Butterfly Valves Ductile Iron Disc Bare Shaft	DN300	PN 16
IPRART12/350370BS	350mm Flanged Wafer Type Butterfly Valves Ductile Iron Disc Bare Shaft	DN350	PN 16
IPRART12/400370BS	400mm Flanged Wafer Type Butterfly Valves Ductile Iron Disc Bare Shaft	DN400	PN 16
IPRART12/450370BS	450mm Flanged Wafer Type Butterfly Valves Ductile Iron Disc Bare Shaft	DN450	PN 16
IPRART12/500370BS	500mm Flanged Wafer Type Butterfly Valves Ductile Iron Disc Bare Shaft	DN500	PN 16
IPRART12/600370BS	600mm Flanged Wafer Type Butterfly Valves Ductile Iron Disc Bare Shaft	DN600	PN 16
IPRART12/700370BS	700mm Flanged Wafer Type Butterfly Valves Ductile Iron Disc Bare Shaft	DN700	PN 16
IPRART12/800370BS	800mm Flanged Wafer Type Butterfly Valves Ductile Iron Disc Bare Shaft	DN800	PN 16
IPRART12/900370BS	900mm Flanged Wafer Type Butterfly Valves Ductile Iron Disc Bare Shaft	DN900	PN 16
IPRART12/1000370BS	1000mm Flanged Wafer Type Butterfly Valves Ductile Iron Disc Bare Shaft	DN1000	PN 16
IPRART12/1200370BS	1200mm Flanged Wafer Type Butterfly Valves Ductile Iron Disc Bare Shaft	DN1200	PN 16

Lug
DN 32 -300
PN 16

LUG type butterfly valve can be used for cold, hot and drinking water, heating air, mineral oil as well as general industrial applications. Operation with manual grip or alternatively gearbox with hand wheel.

STANDARDS
- Body and disk: GGG40, GGG40/CF8M
- Shaft (DN32-DN 200), upper shaft , lower shaft (DN250-300): AISI-420

Butterfly Valves- Lugged Type Stainless Steel Disc Lever Operated

PART NUMBER	DESCRIPTION	DN mm	PN
IPRART21/040373LV	32mm/40mm Lugged Type Butterfly Valve Stainless Steel Disc Lever Operated	DN32/40	PN 16
IPRART21/050373LV	50mm Lugged Type Butterfly Valve Stainless Steel Disc Lever Operated	DN50	PN 16
IPRART21/065373LV	65mm Lugged Type Butterfly Valve Stainless Steel Disc Lever Operated	DN65	PN 16
IPRART21/080373LV	80mm Lugged Type Butterfly Valve Stainless Steel Disc Lever Operated	DN80	PN 16
IPRART21/100373LV	100mm Lugged Type Butterfly Valve Stainless Steel Disc Lever Operated	DN100	PN 16
IPRART21/125373LV	125mm Lugged Type Butterfly Valve Stainless Steel Disc Lever Operated	DN125	PN 16
IPRART21/150373LV	150mm Lugged Type Butterfly Valve Stainless Steel Disc Lever Operated	DN150	PN 16
IPRART21/200373LV	200mm Lugged Type Butterfly Valve Stainless Steel Disc Lever Operated	DN200	PN 16

Butterfly Valves- Lugged Type Ductile Iron Disc Lever Operated

PART NUMBER	DESCRIPTION	DN mm	PN
IPRART21/065370LV	65mm Lugged Type Butterfly Valves Ductile Iron Disc Lever Operated	DN65	PN16
IPRART21/080370LV	80mm Lugged Type Butterfly Valves Ductile Iron Disc Lever Operated	DN80	PN 16
IPRART21/100370LV	100mm Lugged Type Butterfly Valves Ductile Iron Disc Lever Operated	DN100	PN 16
IPRART21/125370LV	125mm Lugged Type Butterfly Valves Ductile Iron Disc Lever Operated	DN125	PN 16
IPRART21/150370LV	150mm Lugged Type Butterfly Valves Ductile Iron Disc Lever Operated	DN150	PN 16
IPRART21/200370LV	200mm Lugged Type Butterfly Valves Ductile Iron Disc Lever Operated	DN200	PN 16

Butterfly Valves - Lugged Type Stainless Steel Disc C/W Gearbox and Handwheel

PART NUMBER	DESCRIPTION	DN mm	PN
IPRART21/080373GB	80mm Lugged Type Butterfly Valves Stainless Steel Disc C/W Gearbox and Handwheel	DN80	PN 16
IPRART21/100373GB	100mm Lugged Type Butterfly Valves Stainless Steel Disc C/W Gearbox and Handwheel	DN100	PN 16
IPRART21/125373GB	125mm Lugged Type Butterfly Valves Stainless Steel Disc C/W Gearbox and Handwheel	DN125	PN 16
IPRART21/150373GB	150mm Lugged Type Butterfly Valves Stainless Steel Disc C/W Gearbox and Handwheel	DN150	PN 16
IPRART21/200373GB	200mm Lugged Type Butterfly Valves Stainless Steel Disc C/W Gearbox and Handwheel	DN200	PN 16
IPRART21/250373GB	250mm Lugged Type Butterfly Valves Stainless Steel Disc C/W Gearbox and Handwheel	DN250	PN 16
IPRART21/300373GB	300mm Lugged Type Butterfly Valves Stainless Steel Disc C/W Gearbox and Handwheel	DN300	PN 16

Butterfly Valves

Wafer
DN 80 -700
PN 16

Wafer type butterfly valve for cold, hot and drinking water, heating air, mineral oil as well as general industrial applications. Operation with manual grip or alternatively gearbox with hand wheel.

STANDARDS

- Body and disk: GGG40, GGG40/CF8M
- Shaft: AISI-420 (DN32-DN200), Upper shaft and lower shaft (DN250-DN600) Steel AISI 420
- Liner (DN350-DN600) EPDM/ AISI-420
- Upper and lower stem AISI-420

OPTIONS

- Other materials upon request
- DN32-200 valid for installation between flanges PN6/10/16, ANSI-150, BS Table E/D, JIS 5/10K.
- DN250-300 valid for installation between flanges PN10/16, ANSI-150, BS Table E/D.

Butterfly Valves - Wafer Type Ductile Iron Disc C/W Gearbox and Handwheel

PART NUMBER	DESCRIPTION	DN mm	PN
IPRART20/080370GB	80mm Wafer Type Butterfly Valves Ductile Iron Disc C/W Gearbox and Handwheel	DN80	PN 16
IPRART20/100370GB	100mm Wafer Type Butterfly Valves Ductile Iron Disc C/W Gearbox and Handwheel	DN100	PN 16
IPRART20/125370GB	125mm Wafer Type Butterfly Valves Ductile Iron Disc C/W Gearbox and Handwheel	DN125	PN 16
IPRART20/150370GB	150mm Wafer Type Butterfly Valves Ductile Iron Disc C/W Gearbox and Handwheel	DN150	PN 16
IPRART20/200370GB	200mm Wafer Type Butterfly Valves Ductile Iron Disc C/W Gearbox and Handwheel	DN200	PN 16
IPRART20/250370GB	250mm Wafer Type Butterfly Valves Ductile Iron Disc C/W Gearbox and Handwheel	DN250	PN 16
IPRART20/300370GB	300mm Wafer Type Butterfly Valves Ductile Iron Disc C/W Gearbox and Handwheel	DN300	PN 16
IPRART14/350370GB	350mm Wafer Type Butterfly Valves Ductile Iron Disc C/W Gearbox and Handwheel	DN350	PN 16
IPRART14/400370GB	400mm Wafer Type Butterfly Valves Ductile Iron Disc C/W Gearbox and Handwheel	DN400	PN 16
IPRART14/450370GB	450mm Wafer Type Butterfly Valves Ductile Iron Disc C/W Gearbox and Handwheel	DN450	PN 16
IPRART14/500370GB	500mm Wafer Type Butterfly Valves Ductile Iron Disc C/W Gearbox and Handwheel	DN500	PN 16
IPRART14/600370GB	600mm Wafer Type Butterfly Valves Ductile Iron Disc C/W Gearbox and Handwheel	DN600	PN 16
IPRART14/700370GB	700mm Wafer Type Butterfly Valves Ductile Iron Disc C/W Gearbox and Handwheel	DN700	PN 16

Butterfly Valves - Wafer Type Stainless Steel Disc C/W Gearbox and Handwheel

PART NUMBER	DESCRIPTION	DN mm	PN
IPRART20/080373GB	80mm Wafer Type Butterfly Valves Stainless Steel Disc C/W Gearbox and Handwheel	DN80	PN 16
IPRART20/100373GB	100mm Wafer Type Butterfly Valves Stainless Steel Disc C/W Gearbox and Handwheel	DN100	PN 16
IPRART20/125373GB	125mm Wafer Type Butterfly Valves Stainless Steel Disc C/W Gearbox and Handwheel	DN125	PN 16
IPRART20/150373GB	150mm Wafer Type Butterfly Valves Stainless Steel Disc C/W Gearbox and Handwheel	DN150	PN 16
IPRART20/200373GB	200mm Wafer Type Butterfly Valves Stainless Steel Disc C/W Gearbox and Handwheel	DN200	PN 16
IPRART20/250373GB	250mm Wafer Type Butterfly Valves Stainless Steel Disc C/W Gearbox and Handwheel	DN250	PN 16
IPRART20/300373GB	300mm Wafer Type Butterfly Valves Stainless Steel Disc C/W Gearbox and Handwheel	DN300	PN 16
IPRART14/350373GB	350mm Wafer Type Butterfly Valves Stainless Steel Disc C/W Gearbox and Handwheel	DN350	PN 16
IPRART14/400373GB	400mm Wafer Type Butterfly Valves Stainless Steel Disc C/W Gearbox and Handwheel	DN400	PN 16
IPRART14/450373GB	450mm Wafer Type Butterfly Valves Stainless Steel Disc C/W Gearbox and Handwheel	DN450	PN 16
IPRART14/500373GB	500mm Wafer Type Butterfly Valves Stainless Steel Disc C/W Gearbox and Handwheel	DN500	PN 16
IPRART14/600373GB	600mm Wafer Type Butterfly Valves Stainless Steel Disc C/W Gearbox and Handwheel	DN600	PN 16
IPRART14/700373GB	700mm Wafer Type Butterfly Valves Stainless Steel Disc C/W Gearbox and Handwheel	DN700	PN 16

Butterfly Valves-Wafer Type Ductile Iron Disc Bare Shaft

PART NUMBER	DESCRIPTION	DN mm	PN
IPRART20/065370BS	65mm Wafer Type Butterfly Valve Ductile Iron Disc Bare Shaft	DN65	PN 16
IPRART20/080370BS	80mm Wafer Type Butterfly Valve Ductile Iron Disc Bare Shaft	DN80	PN 16
IPRART20/100370BS	100mm Wafer Type Butterfly Valve Ductile Iron Disc Bare Shaft	DN100	PN 16
IPRART20/125370BS	125mm Wafer Type Butterfly Valve Ductile Iron Disc Bare Shaft	DN125	PN 16
IPRART20/150370BS	150mm Wafer Type Butterfly Valve Ductile Iron Disc Bare Shaft	DN150	PN 16
IPRART20/200370BS	200mm Wafer Type Butterfly Valve Ductile Iron Disc Bare Shaft	DN200	PN 16
IPRART20/250370BS	250mm Wafer Type Butterfly Valve Ductile Iron Disc Bare Shaft	DN250	PN 16
IPRART20/300370BS	300mm Wafer Type Butterfly Valve Ductile Iron Disc Bare Shaft	DN300	PN 16
IPRART14/350370BS	350mm Wafer Type Butterfly Valve Ductile Iron Disc Bare Shaft	DN350	PN 16
IPRART14/400370BS	400mm Wafer Type Butterfly Valve Ductile Iron Disc Bare Shaft	DN400	PN 16
IPRART14/450370BS	450mm Wafer Type Butterfly Valve Ductile Iron Disc Bare Shaft	DN450	PN 16
IPRART14/500370BS	500mm Wafer Type Butterfly Valve Ductile Iron Disc Bare Shaft	DN500	PN 16
IPRART14/600370BS	600mm Wafer Type Butterfly Valve Ductile Iron Disc Bare Shaft	DN600	PN 16
IPRART14/700370BS	700mm Wafer Type Butterfly Valve Ductile Iron Disc Bare Shaft	DN700	PN 16

Butterfly Valves-Wafer Type Stainless Steel Disc Bare Shaft

PART NUMBER	DESCRIPTION	DN mm	PN
IPRART20/050373BS	50mm Wafer Type Butterfly Valves Stainless Steel Disc Bare Shaft	DN50	PN 16
IPRART20/065373BS	65mm Wafer Type Butterfly Valves Stainless Steel Disc Bare Shaft	DN65	PN 16
IPRART20/080373BS	80mm Wafer Type Butterfly Valves Stainless Steel Disc Bare Shaft	DN80	PN 16
IPRART20/100373BS	100mm Wafer Type Butterfly Valves Stainless Steel Disc Bare Shaft	DN100	PN 16
IPRART20/125373BS	125mm Wafer Type Butterfly Valves Stainless Steel Disc Bare Shaft	DN125	PN 16
IPRART20/150373BS	150mm Wafer Type Butterfly Valves Stainless Steel Disc Bare Shaft	DN150	PN 16
IPRART20/200373BS	200mm Wafer Type Butterfly Valves Stainless Steel Disc Bare Shaft	DN200	PN 16
IPRART20/250373BS	250mm Wafer Type Butterfly Valves Stainless Steel Disc Bare Shaft	DN250	PN 16
IPRART20/300373BS	300mm Wafer Type Butterfly Valves Stainless Steel Disc Bare Shaft	DN300	PN 16
IPRART14/350373BS	350mm Wafer Type Butterfly Valves Stainless Steel Disc Bare Shaft	DN350	PN 16
IPRART14/400373BS	400mm Wafer Type Butterfly Valves Stainless Steel Disc Bare Shaft	DN400	PN 16
IPRART14/450373BS	450mm Wafer Type Butterfly Valves Stainless Steel Disc Bare Shaft	DN450	PN 16
IPRART14/500373BS	500mm Wafer Type Butterfly Valves Stainless Steel Disc Bare Shaft	DN500	PN 16
IPRART14/600373BS	600mm Wafer Type Butterfly Valves Stainless Steel Disc Bare Shaft	DN600	PN 16
IPRART14/700373BS	700mm Wafer Type Butterfly Valves Stainless Steel Disc Bare Shaft	DN700	PN 16

Butterfly Valves-Wafer Type Stainless Steel Disc Lever Operated

PART NUMBER	DESCRIPTION	DN mm	PN
IPRART20/040373LV	32mm/40mm Wafer Type Butterfly Valve Stainless Steel Disc Lever Operated	DN32/40	PN 16
IPRART20/050373LV	50mm Wafer Type Butterfly Valve Stainless Steel Disc Lever Operated	DN50	PN 16
IPRART20/065373LV	65mm Wafer Type Butterfly Valve Stainless Steel Disc Lever Operated	DN65	PN 16
IPRART20/080373LV	80mm Wafer Type Butterfly Valve Stainless Steel Disc Lever Operated	DN80	PN 16
IPRART20/100373LV	100mm Wafer Type Butterfly Valve Stainless Steel Disc Lever Operated	DN100	PN 16
IPRART20/125373LV	125mm Wafer Type Butterfly Valve Stainless Steel Disc Lever Operated	DN125	PN 16
IPRART20/150373LV	150mm Wafer Type Butterfly Valve Stainless Steel Disc Lever Operated	DN150	PN 16
IPRART20/200373LV	200mm Wafer Type Butterfly Valve Stainless Steel Disc Lever Operated	DN200	PN 16

Butterfly Valves-Wafer Type Ductile Iron Disc Lever Operated

PART NUMBER	DESCRIPTION	DN	PN
IPRART20/065370LV	65mm Wafer Type Butterfly Valves Ductile Iron Disc Lever Operated	DN65	PN 16
IPRART20/080370LV	80mm Wafer Type Butterfly Valves Ductile Iron Disc Lever Operated	DN80	PN 16
IPRART20/100370LV	100mm Wafer Type Butterfly Valves Ductile Iron Disc Lever Operated	DN100	PN 16
IPRART20/125370LV	125mm Wafer Type Butterfly Valves Ductile Iron Disc Lever Operated	DN125	PN 16
IPRART20/150370LV	150mm Wafer Type Butterfly Valves Ductile Iron Disc Lever Operated	DN150	PN 16
IPRART20/200370LV	200mm Wafer Type Butterfly Valves Ductile Iron Disc Lever Operated	DN200	PN 16

Gate Valves
Resilient Seated Gate Valves

DN 50 - 600
PN 16

Our Resilient Seated Wedge Gate Valve is designed for isolation purposes and is suitable for use with water and neutral liquids to a maximum temperature of 50 degrees centigrade (with an option of 70 degrees centigrade using the RSGV with internal enamel coating).

FEATURES

- Ductile Iron Body and Bonnet
- Fusion Bonded Epoxy (FBE) Coated
- Lightweight Design
- Reduced height of valve
- Integrated dust guard in top of valve
- Stem seals replaceable under pressure
- Cap Top as standard
- PN16 Flanged as standard
- Clockwise Close as standard
- 16 bar Working Pressure
- Fully Vulcanised EPDM Wedge bonded to a Ductile Iron Core
- Wedge designed for complete seal
- Wedge guided to maximise efficiency of sealing and thereby reducing closing friction

STANDARDS

- BS 5163 Part 1 and 2 type B
- Flanges and drilling BS EN 1092-2
- Fully WRAS Approved Product Certificate No 1212333
- Product 100% tested to EN12266-1 and EN1074
- BS EN-1074 1 & 2 Stem Sealing replaceable under pressure

OPTIONS

- Hand wheel
- Prepared for Actuation
- Anti-clockwise close
- Internal Enamel Coating
- Alternative Flange Drillings
- International Standards

Full tightness

The wedge of the gate valve is fully vulcanized, and the wide sealing profile guarantees full tightness even at minimal network pressure.

Furthermore, the gate valve ensures full isolation, on one hand with a triple sealing by the o-rings and the stuffing nut, and on the other hand, by a dust guard which protects the valve from floods, salt spray and dust.

Efficiency

Thanks to the wedge guides the gate valve maintains optimal position for sealing. As a result we get a smooth operation, reduced torques and longer life. In addition, our gate valves have a shorter height that makes it easier and even possible in places with reduced dimentions. Moreover, we continue to manufacture full and straight bore in this new model.

Long service life

ERHARD ensures the highest quality in all processes and materials used. For international standards please contact the sales office.

The ERHARD soft sealing gate valve has been designed with more rounded surfaces and more ergonomic shapes that allow more uniform coating and ensure protection of the highest quality.

Corrosion protection with powder epoxy

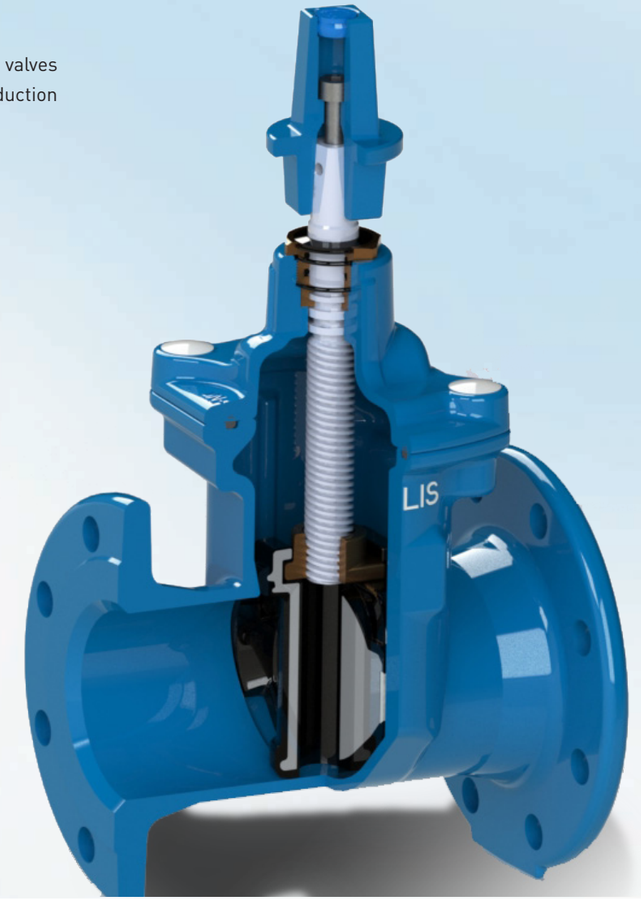
TALIS valves are protected with epoxy powder both internally and externally both the bonnet and the body in a continuous manner, ensuring complete corrosion protection.

The epoxy powder used by TALIS is approved for use with potable water by the most prestigious institutions worldwide. Moreover, our painting facilities are approved according to GSK standard (RAL Quality Mark). If you need your valves coated according to this process, please do not hesitate to enquire.

Permanent protection with enamel

As an option TALIS gate valves can be manufactured completely enamelled. The vitreous enamel is a substance highly resistant to corrosion, abrasion, sunlight and sedimentation due to its low porosity. The enamel is vitrified at 720 ° C and gets a perfect and permanent bond to the casting.

Extensive experience in the manufacture of gate valves together with modern enamel equipment allows production of the highest quality.



WRAS APPROVED PRODUCT

Gate Valves
Resilient Seated Gate Valves

Resilient Seated Gate Valves- Clockwise Close PN16 Captop Operated

PART NUMBER	DESCRIPTION	DN mm	PN
RSGVCC0050E	50mm - Flanged Resilient Seated GateValve BS EN 1074 Cap Top Clockwise Close	DN50	PN16
RSGVCC0080E	80mm - Flanged Resilient Seated GateValve BS EN 1074 Cap Top Clockwise Close	DN80	PN16
RSGVCC0100E	100mm - Flanged Resilient Seated GateValve BS EN 1074 Cap Top Clockwise Close	DN100	PN16
RSGVCC0150E	150mm - Flanged Resilient Seated GateValve BS EN 1074 Cap Top Clockwise Close	DN150	PN16
RSGVCC0200E	200mm - Flanged Resilient Seated GateValve BS EN 1074 Cap Top Clockwise Close	DN200	PN16
RSGVCC0250E	250mm - Flanged Resilient Seated GateValve BS EN 1074 Cap Top Clockwise Close	DN250	PN16
RSGVCC0300E	300mm - Flanged Resilient Seated GateValve BS EN 1074 Cap Top Clockwise Close	DN300	PN16
RSGVCC0350	350mm - Flanged Resilient Seated GateValve BS EN 1074 Cap Top Clockwise Close	DN350	PN16
RSGVCC0400	400mm - Flanged Resilient Seated GateValve BS EN 1074 Cap Top Clockwise Close	DN400	PN16
RSGVCC0450	450mm - Flanged Resilient Seated GateValve BS EN 1074 Cap Top Clockwise Close	DN450	PN16
RSGVCC0500	500mm - Flanged Resilient Seated GateValve BS EN 1074 Cap Top Clockwise Close	DN500	PN16
RSGVCC0600	600mm - Flanged Resilient Seated GateValve BS EN 1074 Cap Top Clockwise Close	DN600	PN16

Resilient Seated Gate Valves - Clockwise Close PN16 Handwheel Operated

PART NUMBER	DESCRIPTION	DN mm	PN
RSGVCC0050HWAE	50mm - Flanged Resilient Seated GateValve BS EN 1074 C/W Handwheel Clockwise Close	DN50	PN16
RSGVCC0080HWAE	80mm - Flanged Resilient Seated GateValve BS EN 1074 C/W Handwheel Clockwise Close	DN80	PN16
RSGVCC0100HWAE	100mm - Flanged Resilient Seated GateValve BS EN 1074 C/W Handwheel Clockwise Close	DN100	PN16
RSGVCC0150HWAE	150mm - Flanged Resilient Seated GateValve BS EN 1074 C/W Handwheel Clockwise Close	DN150	PN16
RSGVCC0200HWAE	200mm - Flanged Resilient Seated GateValve BS EN 1074 C/W Handwheel Clockwise Close	DN200	PN16
RSGVCC0250HWAE	250mm - Flanged Resilient Seated GateValve BS EN 1074 C/W Handwheel Clockwise Close	DN250	PN16
RSGVCC0300HWAE	300mm - Flanged Resilient Seated GateValve BS EN 1074 C/W Handwheel Clockwise Close	DN300	PN16

Resilient Seated Gate Valves - Clockwise Close PN16 Prepared for Actuation

PART NUMBER	DESCRIPTION	DN mm	PN
RSGVCC0080ACTE	80mm - Flanged Resilient Seated GateValve BS EN 1074 Prepared for Actuation F10 Clockwise Close	DN80	PN16
RSGVCC0100ACTE	100mm - Flanged Resilient Seated GateValve BS EN 1074 Prepared for Actuation F10 Clockwise Close	DN100	PN16
RSGVCC0150ACTE	150mm - Flanged Resilient Seated GateValve BS EN 1074 Prepared for Actuation F10 Clockwise Close	DN150	PN16
RSGVCC0200ACTE	200mm - Flanged Resilient Seated GateValve BS EN 1074 Prepared for Actuation F10 Clockwise Close	DN200	PN16
RSGVCC0250ACTE	250mm - Flanged Resilient Seated GateValve BS EN 1074 Prepared for Actuation F14 Clockwise Close	DN250	PN16
RSGVCC0300ACTE	300mm - Flanged Resilient Seated GateValve BS EN 1074 Prepared for Actuation F14 Clockwise Close	DN300	PN16
RSGVCC0350ACT	350mm - Flanged Resilient Seated GateValve BS EN 1074 Prepared for Actuation Clockwise Close	DN350	PN16
RSGVCC0400ACT	400mm - Flanged Resilient Seated GateValve BS EN 1074 Prepared for Actuation Clockwise Close	DN400	PN16
RSGVCC0450ACT	450mm - Flanged Resilient Seated GateValve BS EN 1074 Prepared for Actuation Clockwise Close	DN450	PN16
RSGVCC0500ACT	500mm - Flanged Resilient Seated GateValve BS EN 1074 Prepared for Actuation Clockwise Close	DN500	PN16
RSGVCC0600ACT	600mm - Flanged Resilient Seated GateValve BS EN 1074 Prepared for Actuation Clockwise Close	DN600	PN16

Handwheels - Clockwise Close (supplied with fixings)

PART NUMBER	DESCRIPTION	DN mm	PN
RSGVCC0080HWE	Handweel to suit 50/80mm Resilient Seated Gate Valve Clockwise Close	DN50-80	
RSGVCC0100HWE	Handweel to suit 100/150mm Resilient Seated Gate Valve Clockwise Close	DN100-150	
RSGVCC0200HWE	Handweel to suit 200mm Resilient Seated Gate Valve Clockwise Close	DN200	
RSGVCC0250HWE	Handweel to suit 250mm Resilient Seated Gate Valve Clockwise Close	DN250	
RSGVCC0300HWE	Handweel to suit 300mm Resilient Seated Gate Valve Clockwise Close	DN300	

Resilient Seated Gate Valves - Anti-Clockwise Close PN16 Captop Operated

PART NUMBER	DESCRIPTION	DN mm	PN
RSGVAC0050E	50mm PN16 Flanged Resilient Seated GateValve BS EN 1074 Cap Top Anti-Clockwise Close	DN50	PN16
RSGVAC0080E	80mm PN16 Flanged Resilient Seated GateValve BS EN 1074 Cap Top Anti-Clockwise Close	DN80	PN16
RSGVAC0100E	100mm PN16 Flanged Resilient Seated GateValve BS EN 1074 Cap Top Anti-Clockwise Close	DN100	PN16
RSGVAC0150E	150mm PN16 Flanged Resilient Seated GateValve BS EN 1074 Cap Top Anti-Clockwise Close	DN150	PN16
RSGVAC0200E	200mm PN16 Flanged Resilient Seated GateValve BS EN 1074 Cap Top Anti-Clockwise Close	DN200	PN16
RSGVAC0250E	250mm PN16 Flanged Resilient Seated GateValve BS EN 1074 Cap Top Anti-Clockwise Close	DN250	PN16
RSGVAC0300E	300mm PN16 Flanged Resilient Seated GateValve BS EN 1074 Cap Top Anti-Clockwise Close	DN300	PN16
RSGVAC0350	350mm PN16 Flanged Resilient Seated GateValve BS EN 1074 Cap Top Anti-Clockwise Close	DN350	PN16
RSGVAC0400	400mm PN16 Flanged Resilient Seated GateValve BS EN 1074 Cap Top Anti-Clockwise Close	DN400	PN16
RSGVAC0450	450mm PN16 Flanged Resilient Seated GateValve BS EN 1074 Cap Top Anti-Clockwise Close	DN450	PN16
RSGVAC0500	500mm PN16 Flanged Resilient Seated GateValve BS EN 1074 Cap Top Anti-Clockwise Close	DN500	PN16
RSGVAC0600	600mm PN16 Flanged Resilient Seated GateValve BS EN 1074 Cap Top Anti-Clockwise Close	DN600	PN16

Resilient Seated Gate Valves - Anti-Clockwise Close PN16 Handwheel Operated

PART NUMBER	DESCRIPTION	DN mm	PN
RSGVAC0050HWAE	50mm PN16 Flanged Resilient Seated GateValve BS EN 1074 C/W Handwheel Anti-Clockwise Close	DN50	PN16
RSGVAC0080HWAE	80mm PN16 Flanged Resilient Seated GateValve BS EN 1074 C/W Handwheel Anti-Clockwise Close	DN80	PN16
RSGVAC0100HWAE	100mm PN16 Flanged Resilient Seated GateValve BS EN 1074 C/W Handwheel AntiClockwise Close	DN100	PN16
RSGVAC0150HWAE	150mm PN16 Flanged Resilient Seated GateValve BS EN 1074 C/W Handwheel Anti-Clockwise Close	DN150	PN16
RSGVAC0200HWAE	200mm PN16 Flanged Resilient Seated GateValve BS EN 1074 C/W Handwheel Anti-Clockwise Close	DN200	PN16
RSGVAC0250HWAE	250mm PN16 Flanged Resilient Seated GateValve BS EN 1074 C/W Handwheel Anti-Clockwise Close	DN250	PN16
RSGVAC0300HWAE	300mm PN16 Flanged Resilient Seated GateValve BS EN 1074 C/W Handwheel Anti-Clockwise Close	DN300	PN16

Resilient Seated Gate Valves - Anti-Clockwise Close PN16 Prepared for Actuation

PART NUMBER	DESCRIPTION	DN mm	PN
RSGVAC0080ACTE	80mm PN16 Flanged Resilient Seated GateValve BS EN 1074 Prepared for Actuation F10 Anti-Clockwise Close	DN80	PN16
RSGVAC0100ACTE	100mm PN16 Flanged Resilient Seated GateValve BS EN 1074 Prepared for Actuation F10 Anti-Clockwise Close	DN100	PN16
RSGVAC0150ACTE	150mm PN16 Flanged Resilient Seated GateValve BS EN 1074 Prepared for Actuation F10 Anti-Clockwise Close	DN150	PN16
RSGVAC0200ACTE	200mm PN16 Flanged Resilient Seated GateValve BS EN 1074 Prepared for Actuation F10 Anti-Clockwise Close	DN200	PN16
RSGVAC0250ACTE	250mm PN16 Flanged Resilient Seated GateValve BS EN 1074 Prepared for Actuation F14 Anti-Clockwise Close	DN250	PN16
RSGVAC0300ACTE	300mm PN16 Flanged Resilient Seated GateValve BS EN 1074 Prepared for Actuation F14 Anti-Clockwise Close	DN300	PN16
RSGVCA0350ACT	350mm PN16 Flanged Resilient Seated GateValve BS EN 1074 Prepared for Actuation Anti-Clockwise Close	DN350	PN16
RSGVAC0400ACT	400mm PN16 Flanged Resilient Seated GateValve BS EN 1074 Prepared for Actuation Anti-Clockwise Close	DN400	PN16
RSGVAC0450ACT	450mm PN16 Flanged Resilient Seated GateValve BS EN 1074 Prepared for Actuation Anti-Clockwise Close	DN450	PN16
RSGVAC0500ACT	500mm PN16 Flanged Resilient Seated GateValve BS EN 1074 Prepared for Actuation Anti-Clockwise Close	DN500	PN16
RSGVAC0600ACT	600mm PN16 Flanged Resilient Seated GateValve BS EN 1074 Prepared for Actuation Anti-Clockwise Close	DN600	PN16

Handwheels - Anti-Clockwise Close (supplied with fixings)

PART NUMBER	DESCRIPTION	DN mm	PN
RSGVAC0080HWE	Handweel to suit 50/80mm Resilient Seated Gate Valve Anti-Clockwise Close	DN50-80	
RSGVAC0100HWE	Handweel to suit 100/150mm Resilient Seated Gate Valve Anti-Clockwise Close	DN100-150	
RSGVAC0200HWE	Handweel to suit 200mm Resilient Seated Gate Valve Anti-Clockwise Close	DN200	
RSGVAC0250HWE	Handweel to suit 250mm Resilient Seated Gate Valve Anti-Clockwise Close	DN250	
RSGVAC0300HWE	Handweel to suit 300mm Resilient Seated Gate Valve Anti-Clockwise Close	DN300	

Bevel Gearboxes to Suit Resilient Seated Gate Valves

PART NUMBER	DESCRIPTION	DN mm	PN
NTB4 2:1	Bevel Gearbox to suit RSGVs 80mm - 100mm	DN80-100	
NTB4 2:1	Bevel Gearbox to suit RSGVs 125mm -200mm	DN125-200	
NTB4 2:1	Bevel Gearbox to suit RSGVs 250mm - 300mm	DN250-300	
IB5 3:1	Bevel Gearbox to suit RSGVs 350mm - 500mm	DN350-500	
IB7 4:1	Bevel Gearbox to suit RSGVs 600mm	DN600	

Spur Gearboxes to Suit Resilient Seated Gate Valves

PART NUMBER	DESCRIPTION	DN mm	PN
IS3 3:1	Spur Gearbox to suit RSGVs 350mm - 400mm	DN350-400	
IS5 3:1	Spur Gearbox to suit RSGVs 500mm	DN500	
IS7 4:1	Spur Gearbox to suit RSGVs 600mm	DN600	

Gate Valves
Knife Gate

DN 50 - 350 PN 10
DN 400 - 600 PN 4

The ERHARD knife gate valve is designed as a valve which seals bidirectionally with a rising stem which can be used both as an intermediate flange valve and as an end valve. It is suitable for liquids with a solids content of up to 5%. Its wide range of nominal sizes from DN 50 to DN 600 makes it suitable for numerous applications in the fields of waste water technology and in the chemical and paper industries, as well as for process water use.

For long-lasting corrosion protection, the ERHARD knife gate valve comes with a high-quality fusion bonded epoxy coating with average coating thickness of 250 mm which guarantees great durability.

FEATURES

- Full-flange design
- Installation between flanges and at the end of the line possible
- Two-piece housing
- Centre body seal made of NBR
- Both side flange, holes in the rest of the flange
- Face-to face dimensions according K1 or K3
- Sealed in both flow directions
- Full bore
- Plate with cutting edge at the radius
- With flushing-corners at the sideguide
- Transverse seal with packing string and o-ring
- Adjustable and changable form outside when installed
- Stable construction with colums made of steel

STANDARDS

- The cody connection is made via a flange according to DIN EN 1092-2
- The two-part body made of high quality grey cast iron EN-JL1040 is extremely robust
- Epoxy coated, 250 µm, blue
- Full flange design, face to face dimension EN 558
- Flanges on both sides, connecting dimensions to EN 1092, PN10
- Pressure and functional testing to DIN EN 12266/1074
- Body EN-JL1040 (GG-25)

OPTIONS

- Available in face-to-face dimensions K1 and K3
- Available with sealing on one side (Type A) or both sides (Type AB)
- Combination of gearbox and hand wheel or an electric drive
- Rising stem
- Prepared for actuation
- PN Flange Connection

Knife Gate Valve, PN10 Flange, NBR, Handwheel

PART NUMBER	DESCRIPTION	DN mm	PN
KGV/0050/MO	50mm Knife Gate Valve, PN16 Flange, 10 bar rated, NBR, Handwheel	DN50	PN10
KGV/0065/MO	65mm Knife Gate Valve, PN16 Flange, 10 bar rated, NBR, Handwheel	DN65	PN10
KGV/0080/MO	80mm Knife Gate Valve, PN16 Flange, 10 bar rated, NBR, Handwheel	DN80	PN10
KGV/100/MO	100mm Knife Gate Valve, PN16 Flange, 10 bar rated, NBR, Handwheel	DN100	PN10
KGV/125/MO	125mm Knife Gate Valve, PN16 Flange, 10 bar rated, NBR, Handwheel	DN125	PN10
KGV/150/MO	150mm Knife Gate Valve, PN16 Flange, 10 bar rated, NBR, Handwheel	DN150	PN10
KGV/200/MO	200mm Knife Gate Valve, PN16 Flange, 10 bar rated, NBR, Handwheel	DN200	PN10
KGV/250/MO	250mm Knife Gate Valve, PN16 Flange, 10 bar rated, NBR, Handwheel	DN250	PN10
KGV/300/MO	300mm Knife Gate Valve, PN16 Flange, 10 bar rated, NBR, Handwheel	DN300	PN10
KGV/350/MO	350mm Knife Gate Valve, PN16 Flange, 10 bar rated, NBR, Handwheel	DN350	PN10
KGV/400/MO	400mm Knife Gate Valve, PN16 Flange, 4 bar rated, NBR, Handwheel	DN400	PN 4
KGV/500/MO	500mm Knife Gate Valve, PN16 Flange, 4 bar rated, NBR, Handwheel	DN500	PN 4
KGV/600/MO	600mm Knife Gate Valve, PN16 Flange, 4 bar rated, NBR, Handwheel	DN600	PN 4

Knife Gate Valve,PN10 Flange, NBR, Prepared for Actuation

PART NUMBER	DESCRIPTION	DN mm	PN
KGV/0050/ELAC	50mm Knife Gate Valve,PN16 Flange, 10 bar rated, NBR, Prepared for Actuation	DN50	PN10
KGV/0065/ELAC	65mm Knife Gate Valve,PN16 Flange, 10 bar rated, NBR, Prepared for Actuation	DN65	PN10
KGV/0080/ELAC	80mm Knife Gate Valve,PN16 Flange, 10 bar rated, NBR, Prepared for Actuation	DN80	PN10
KGV/100/ELAC	100mm Knife Gate Valve,PN16 Flange, 10 bar rated, NBR, Prepared for Actuation	DN100	PN10
KGV/125/ELAC	125mm Knife Gate Valve,PN16 Flange, 10 bar rated, NBR, Prepared for Actuation	DN125	PN10
KGV/150/ELAC	150mm Knife Gate Valve,PN16 Flange, 10 bar rated, NBR, Prepared for Actuation	DN150	PN10
KGV/200/ELAC	200mm Knife Gate Valve,PN16 Flange, 10 bar rated, NBR, Prepared for Actuation	DN200	PN10
KGV/250/ELAC	250mm Knife Gate Valve,PN16 Flange, 10 bar rated, NBR, Prepared for Actuation	DN250	PN10
KGV/300/ELAC	300mm Knife Gate Valve,PN16 Flange, 10 bar rated, NBR, Prepared for Actuation	DN300	PN10
KGV/350/ELAC	350mm Knife Gate Valve,PN16 Flange, 10 bar rated, NBR, Prepared for Actuation	DN350	PN10
KGV/400/ELAC	400mm Knife Gate Valve,PN16 Flange, 4 bar rated, NBR, Prepared for Actuation	DN400	PN 4
KGV/500/ELAC	500mm Knife Gate Valve,PN16 Flange, 4 bar rated, NBR, Prepared for Actuation	DN500	PN 4
KGV/600/ELAC	600mm Knife Gate Valve,PN16 Flange, 4 bar rated, NBR, Prepared for Actuation	DN600	PN 4

Knife Gate Valve, PET Guards

PART NUMBER	DESCRIPTION	DN mm	PN
KGV/Guards/0080/PET	Knife Gate Valve, PET Guards for 80mm	DN80	
KGV/Guards/0100/PET	Knife Gate Valve, PET Guards for 100mm	DN100	
KGV/Guards/0150/PET	Knife Gate Valve, PET Guards for 150mm	DN150	
KGV/Guards/0200/PET	Knife Gate Valve, PET Guards for 200mm	DN200	
KGV/Guards/0250/PET	Knife Gate Valve, PET Guards for 250mm	DN250	
KGV/Guards/0300/PET	Knife Gate Valve, PET Guards for 300mm	DN300	

Gate Valves
Metal Seated

DN 50 - 300

Metal seat wedge gate valves are used for pipeline isolation. This valve is suitable for potable water, wastewater and sewage duties and buried service.

FEATURES

- Hydrostatic Pressure Tests:
  Seat - 1.1 x PN (17.6Bar)
  Body - 1.5 x PN (24.0Bar)
- Temperature Range: -10°C to 70°C, insulate at 0°C and below
- Coating: Blue fusion bonded epoxy (WRAS listed)
- Unique, lightweight, ductile iron design
- WRAS listed non-metallic components
- Durable fusion bonded epoxy coated
- Stem seals replaceable under pressure
- 100% full bore
- Clockwise closing spindle as standard, clockwise opening on request
- Corrosion resistant construction
- Integral feel to facilitate safe storage
- Drilling bosses & drain plug as standard
- Robust low maintenance design suitable for buried service

STANDARDS

- WRAS listed non-metallic components
- Standard: BS 5163 Pt 1&2: 2004, EN1171: 2002 & EN1074-2:2000
- Flanges and Drillings: BS EN 1092-2:1987 Table 9 (PN16) or alternatives BS EN 1092-2:1987 Table 8 (PN10) BS10 Table D or E
- Face to Face Dimensions: BS EN 558-1: 1986 Table 3, Basic Series 3
- Coating: Blue fusion bonded epoxy (WRAS listed)

OPTIONS

- Clockwise closing spindle as standard, anticlockwise closing on request
- Hand wheel or stem cap operation
- Prepared for actuation: electric or pneumatic
- Face to Face Dimensions: BS EN 558
- Gearboxes: bevel or spur
- Position indicator
- Locking device
- By-pass
- Extension spindles and tee keys
- Alternative flange drillings

DN 350 - 1200

Metal seat wedge gate valves are used for pipeline isolation. This valve is suitable for water, waste water and sewage duties.

FEATURES

- Epoxy coated ductile iron construction
- Superior weld-on gunmetal seats
- Clockwise closing non-rising spindle
- Stem seals replaceable under pressure
- WRAS listed non-metallic components
- Flange feet to facilitate safe storage
- Air release and drain plug as standard
- DN700 and above with spur gearbox
- Lifting points
- Cap top

STANDARDS

- WRAS listed non-metallic components
- Thrust taking integral ISO5210 pad
- Standard BS 5163, EN 1074 & EN 1171
- Flange drillings EN 1092-2 Table 9 (PN16)

OPTIONS

- Anti-clockwise closing spindle
- Bevel/spur gear box
- Actuation
- By-pass assembly
- 25 bar version
- Slippers and guides
- Position indicator
- Alternative flange drillings (BS10 & ANSI)
- Hand wheel/cap
- Hand wheel
- Rising spindle
- Thrust taking integral ISO5210 pad

Metal Seated Gate Valves - Clockwise Close PN16 Captop Operated

PART NUMBER	DESCRIPTION	DN mm	PN
MSGVCC0050	50mm - Flanged Metal Seated GateValve BS EN 1074 Cap Top Clockwise Close	DN50	PN16
MSGVCC0065	65mm - Flanged Metal Seated GateValve BS EN 1074 Cap Top Clockwise Close	DN65	PN16
MSGVCC0080	80mm - Flanged Metal Seated GateValve BS EN 1074 Cap Top Clockwise Close	DN80	PN16
MSGVCC0100	100mm - Flanged Metal Seated GateValve BS EN 1074 Cap Top Clockwise Close	DN100	PN16
MSGVCC0125	125mm - Flanged Metal Seated GateValve BS EN 1074 Cap Top Clockwise Close	DN125	PN16
MSGVCC0150	150mm - Flanged Metal Seated GateValve BS EN 1074 Cap Top Clockwise Close	DN150	PN16
MSGVCC0200	200mm -Flanged Metal Seated GateValve BS EN 1074 Cap Top Clockwise Close	DN200	PN16
MSGVCC0250	250mm - Flanged Metal Seated GateValve BS EN 1074 Cap Top Clockwise Close	DN250	PN16
MSGVCC0300	300mm - Flanged Metal Seated GateValve BS EN 1074 Cap Top Clockwise Close	DN300	PN16
MSGVCC0350	350mm - Flanged Metal Seated GateValve BS EN 1074 Cap Top Clockwise Close	DN350	PN16
MSGVCC0400	400mm - Flanged Metal Seated GateValve BS EN 1074 Cap Top Clockwise Close	DN400	PN16
MSGVCC0450	450mm - Flanged Metal Seated GateValve BS EN 1074 Cap Top Clockwise Close	DN450	PN16
MSGVCC0500	500mm - Flanged Metal Seated GateValve BS EN 1074 Cap Top Clockwise Close	DN500	PN16
MSGVCC0600	600mm - Flanged Metal Seated GateValve BS EN 1074 Cap Top Clockwise Close	DN600	PN16
MSGVCC0700	700mm - Flanged Metal Seated GateValve BS EN 1074 Cap Top Clockwise Close	DN700	PN16
MSGVCC0800	800mm - Flanged Metal Seated GateValve BS EN 1074 Cap Top Clockwise Close	DN800	PN16
MSGVCC0900	900mm - Flanged Metal Seated GateValve BS EN 1074 Cap Top Clockwise Close	DN900	PN16
MSGVCC1000	1000mm - Flanged Metal Seated GateValve BS EN 1074 Cap Top Clockwise Close	DN1000	PN16
MSGVCC1200	1200mm - Flanged Metal Seated GateValve BS EN 1074 Cap Top Clockwise Close	DN1200 (10 bar)	PN10
MSGVCC1200	1200mm - Flanged Metal Seated GateValve BS EN 1074 Cap Top Clockwise Close	DN1200 (16 bar)	PN16

Metal Seated Gate Valves - Clockwise Close PN16 Captop Operated Long Patterned suitable for Bypass

PART NUMBER	DESCRIPTION	DN mm	PN
	350mm - Flanged Metal Seated GateValve BS EN 1074 Cap Top Clockwise Close Long Patterned for Bypass	DN350	PN16
	400mm - Flanged Metal Seated GateValve BS EN 1074 Cap Top Clockwise Close Long Patterned for Bypass	DN400	PN16
	450mm - Flanged Metal Seated GateValve BS EN 1074 Cap Top Clockwise Close Long Patterned for Bypass	DN450	PN16
	500mm - Flanged Metal Seated GateValve BS EN 1074 Cap Top Clockwise Close Long Patterned for Bypass	DN500	PN16
	600mm - Flanged Metal Seated GateValve BS EN 1074 Cap Top Clockwise Close Long Patterned for Bypass	DN600	PN16
	700mm - Flanged Metal Seated GateValve BS EN 1074 Cap Top Clockwise Close Long Patterned for Bypass	DN700	PN16
	800mm - Flanged Metal Seated GateValve BS EN 1074 Cap Top Clockwise Close Long Patterned for Bypass	DN800	PN16
	900mm - Flanged Metal Seated GateValve BS EN 1074 Cap Top Clockwise Close Long Patterned for Bypass	DN900	PN16
	1000mm - Flanged Metal Seated GateValve BS EN 1074 Cap Top Clockwise Close Long Patterned for Bypass	DN1000	PN16
	1200mm - Flanged Metal Seated GateValve BS EN 1074 Cap Top Clockwise Close Long Patterned for Bypass	DN1200	PN10

Metal Seated Gate Valves - Clockwise Close PN25 Captop Operated

PART NUMBER	DESCRIPTION	DN mm	PN
	80mm PN25 Flanged Metal Seated GateValve BS EN 1074 Cap Top Clockwise Close	DN80	PN25
	100mm PN25 Flanged Metal Seated GateValve BS EN 1074 Cap Top Clockwise Close	DN100	PN25
	150mm PN25 Flanged Metal Seated GateValve BS EN 1074 Cap Top Clockwise Close	DN150	PN25
	200mm PN25 Flanged Metal Seated GateValve BS EN 1074 Cap Top Clockwise Close	DN200	PN25
	250mm PN25 Flanged Metal Seated GateValve BS EN 1074 Cap Top Clockwise Close	DN250	PN25
	300mm PN25 Flanged Metal Seated GateValve BS EN 1074 Cap Top Clockwise Close	DN300	PN25

Handwheels - Clockwise Close (supplied with fixings)

PART NUMBER	DESCRIPTION	DN mm	PN
RSGVCC0080HWE	Handweel to suit 50/80mm Resilient Seated Gate Valve Clockwise Close	DN50-80	
RSGVCC0100HWE	Handweel to suit 100/150mm Resilient Seated Gate Valve Clockwise Close	DN100-150	
RSGVCC0200HWE	Handweel to suit 200mm Resilient Seated Gate Valve Clockwise Close	DN200	
RSGVCC0250HWE	Handweel to suit 250mm Resilient Seated Gate Valve Clockwise Close	DN250	
RSGVCC0300HWE	Handweel to suit 300mm Resilient Seated Gate Valve Clockwise Close	DN300	

Gate Valves
Metal Seated

Metal Seated Gate Valves - Anti-Clockwise Close PN16 Captop Operated

PART NUMBER	DESCRIPTION	DN mm	PN
MSGVAC0050	50mm PN16 Flanged Metal Seated GateValve BS EN 1074 Cap Top Clockwise Close	DN50	PN16
MSGVAC0065	65mm PN16 Flanged Metal Seated GateValve BS EN 1074 Cap Top Clockwise Close	DN65	PN16
MSGVAC0080	80mm PN16 Flanged Metal Seated GateValve BS EN 1074 Cap Top Clockwise Close	DN80	PN16
MSGVAC0100	100mm PN16 Flanged Metal Seated GateValve BS EN 1074 Cap Top Clockwise Close	DN100	PN16
MSGVAC0125	125mm PN16 Flanged Metal Seated GateValve BS EN 1074 Cap Top Clockwise Close	DN125	PN16
MSGVAC0150	150mm PN16 Flanged Metal Seated GateValve BS EN 1074 Cap Top Clockwise Close	DN150	PN16
MSGVAC0200	200mm PN16 Flanged Metal Seated GateValve BS EN 1074 Cap Top Clockwise Close	DN200	PN16
MSGVAC0250	250mm PN16 Flanged Metal Seated GateValve BS EN 1074 Cap Top Clockwise Close	DN250	PN16
MSGVAC0300	300mm PN16 Flanged Metal Seated GateValve BS EN 1074 Cap Top Clockwise Close	DN300	PN16
MSGVAC0350	350mm PN16 Flanged Metal Seated GateValve BS EN 1074 Cap Top Clockwise Close	DN350	PN16
MSGVAC0400	400mm PN16 Flanged Metal Seated GateValve BS EN 1074 Cap Top Clockwise Close	DN400	PN16
MSGVAC0450	450mm PN16 Flanged Metal Seated GateValve BS EN 1074 Cap Top Clockwise Close	DN450	PN16
MSGVAC0500	500mm PN16 Flanged Metal Seated GateValve BS EN 1074 Cap Top Clockwise Close	DN500	PN16
MSGVAC0600	600mm PN16 Flanged Metal Seated GateValve BS EN 1074 Cap Top Clockwise Close	DN600	PN16
MSGVAC0700	700mm PN16 Flanged Metal Seated GateValve BS EN 1074 Cap Top Clockwise Close	DN700	PN16
MSGVAC0800	800mm PN16 Flanged Metal Seated GateValve BS EN 1074 Cap Top Clockwise Close	DN800	PN16
MSGVAC0900	900mm PN16 Flanged Metal Seated GateValve BS EN 1074 Cap Top Clockwise Close	DN900	PN16
MSGVAC1000	1000mm PN16 Flanged Metal Seated GateValve BS EN 1074 Cap Top Clockwise Close	DN1000	PN16
MSGVAC120010	1200mm PN10 Flanged Metal Seated GateValve BS EN 1074 Cap Top Clockwise Close	DN1200 (10 bar)	PN10
MSGVAC120016	1200mm PN16 Flanged Metal Seated GateValve BS EN 1074 Cap Top Clockwise Close	DN1200 (16 bar)	PN16

Metal Seated Gate Valves - Anti-Clockwise Close PN16 Captop Operated Long Patterned suitable for Bypass

PART NUMBER	DESCRIPTION	DN mm	PN
	350mm PN16 Flanged Metal Seated GateValve BS EN 1074 Cap Top Anti-Clockwise Close Long Patterned	DN350	PN16
	400mm PN16 Flanged Metal Seated GateValve BS EN 1074 Cap Top Anti-Clockwise Close Long Patterned	DN400	PN16
	450mm PN16 Flanged Metal Seated GateValve BS EN 1074 Cap Top Anti-Clockwise Close Long Patterned	DN450	PN16
	500mm PN16 Flanged Metal Seated GateValve BS EN 1074 Cap Top Anti-Clockwise Close Long Patterned	DN500	PN16
	600mm PN16 Flanged Metal Seated GateValve BS EN 1074 Cap Top Anti-Clockwise Close Long Patterned	DN600	PN16
	700mm PN16 Flanged Metal Seated GateValve BS EN 1074 Cap Top Anti-Clockwise Close Long Patterned	DN700	PN16
	800mm PN16 Flanged Metal Seated GateValve BS EN 1074 Cap Top Anti-Clockwise Close Long Patterned	DN800	PN16
	900mm PN16 Flanged Metal Seated GateValve BS EN 1074 Cap Top Anti-Clockwise Close Long Patterned	DN900	PN16
	1000mm PN16 Flanged Metal Seated GateValve BS EN 1074 Cap Top Anti-Clockwise Close Long Patterned	DN1000	PN16
	1200mm PN10 Flanged Metal Seated GateValve BS EN 1074 Cap Top Anti-Clockwise Close Long Patterned	DN1200 (10 bar)	PN16

Handwheels - Anti-Clockwise Close (supplied with fixings)

PART NUMBER	DESCRIPTION	DN mm	PN
RSGVAC0080HWE	Handweel to suit 50/80mm Resilient Seated Gate Valve Anti-Clockwise Close	DN50-80	
RSGVAC0100HWE	Handweel to suit 100/150mm Resilient Seated Gate Valve Anti-Clockwise Close	DN100-150	
RSGVAC0200HWE	Handweel to suit 200mm Resilient Seated Gate Valve Anti-Clockwise Close	DN200	
RSGVAC0250HWE	Handweel to suit 250mm Resilient Seated Gate Valve Anti-Clockwise Close	DN250	
RSGVAC0300HWE	Handweel to suit 300mm Resilient Seated Gate Valve Anti-Clockwise Close	DN300	

Swing Check Valves

DN 50 - 1000
PN 16

Metal seat swing check valve are used to prevent reverse flow. They are suitable for potable water, wastewater and sewage applications.

FEATURES

- Hydrostatic Pressure Tests:
  Seat - 1.1 x PN (17.6Bar)
  Body - 1.5 x PN (24.0Bar)
- Temperature Range: -10° C to 70°C, Insulate at 0°C and below
- Unique lightweight ductile iron design
- Durable fusion bonded epoxy coated
- Positive hexagonal drive between shaft and hanger
- Corrosion resistant construction
- Optional external lever arm and weight assemble
- Drilling bosses and ½ BSP air release as standard
- Robust low maintenance design
- Suitable for both horizontal and vertical installation

STANDARDS

- WRAS approved non-metallic components
- Coating: Blue fusion bonded epoxy (WRAS listed)
- Standard: BS EN1074.Pt 3:2000, BS EN12334:2001 & BS5153:1974
- Flanges and Drillings: BS EN 1092-2:1987 Table 9 (PN16)
- Face to face dimensions: BS EN 558-1:1986, Table 3, Basic Series 3

OPTIONS

- External lever arm and weight, can be mounted on either side
- Safety guards for external lever arm and weight
- Flow sensing switching options
- Alternative flange drillings

Swing Check Valve, Internal Shaft, PN16 Flanged

PART NUMBER	DESCRIPTION	DN mm	PN
SWCVL0050	50mm PN16 Flanged Metal Swing Check Valve Internal Shaft	DN50	PN16
SWCVL0080	80mm PN16 Flanged Metal Swing Check Valve Internal Shaft	DN80	PN16
SWCVL0100	100mm PN16 Flanged Metal Swing Check Valve Internal Shaft	DN100	PN16
SWCVL0150	150mm PN16 Flanged Metal Swing Check Valve Internal Shaft	DN150	PN16
SWCVL0200	200mm PN16 FlangedMetal Swing Check Valve Internal Shaft	DN200	PN16
SWCVL0250	250mm PN16 Flanged Metal Swing Check Valve Internal Shaft	DN250	PN16
SWCVL0300	300mm PN16 Flanged Metal Swing Check Valve Internal Shaft	DN300	PN16

Swing Check Valve, C/W Lever & Weight, PN16 Flanged

PART NUMBER	DESCRIPTION	DN mm	PN
SWCVLW0050	50mm PN16 Flanged Metal Swing Check Valve C/W Lever and Weight	DN50	PN16
SWCVLW0065	65mm PN16 Flanged Metal Swing Check Valve C/W Lever and Weight	DN65	PN16
SWCVLW0080	80mm PN16 Flanged Metal Swing Check Valve C/W Lever and Weight	DN80	PN16
SWCVLW0100	100mm PN16 Flanged Metal Swing Check Valve C/W Lever and Weight	DN100	PN16
SWCVLW0125	125mm PN16 Flanged Metal Swing Check Valve C/W Lever and Weight	DN125	PN16
SWCVLW0150	150mm PN16 Flanged Metal Swing Check Valve C/W Lever and Weight	DN150	PN16
SWCVLW0200	200mm PN16 Flanged Metal Swing Check Valve C/W Lever and Weight	DN200	PN16
SWCVLW0250	250mm PN16 Flanged Metal Swing Check Valve C/W Lever and Weight	DN250	PN16
SWCVLW0300	300mm PN16 Flanged Metal Swing Check Valve C/W Lever and Weight	DN300	PN16
SWCVLW0350	350mm PN16 Flanged Metal Swing Check Valve C/W Lever and Weight	DN350	PN16
SWCVLW0400	400mm PN16 Flanged Metal Swing Check Valve C/W Lever and Weight	DN400	PN16
SWCVLW0450	450mm PN16 Flanged Metal Swing Check Valve C/W Lever and Weight	DN450	PN16
SWCVLW0500	500mm PN16 Flanged Metal Swing Check Valve C/W Lever and Weight	DN500	PN16
SWCVLW0600	600mm PN16 Flanged Metal Swing Check Valve C/W Lever and Weight	DN600	PN16
SWCVLW0700	700mm PN16 Flanged Metal Swing Check Valve C/W Lever and Weight	DN700	PN16
SWCVLW0800	800mm PN16 Flanged Metal Swing Check Valve C/W Lever and Weight	DN800	PN16
SWCVLW0900	900mm PN16 Flanged Metal Swing Check Valve C/W Lever and Weight	DN900	PN16
SWCVLW1000	1000mm PN16 Flanged Metal Swing Check Valve C/W Lever and Weight	DN1000	PN16

Swing Check Valve, C/W Lever, Weight & Guard, PN16 Flanged

PART NUMBER	DESCRIPTION	DN mm	PN
SWCVLWG0050	50mm PN16 Flanged Metal Swing Check Valve C/W Lever Weight and Guard	DN50	PN16
SWCVLWG0065	65mm PN16 Flanged Metal Swing Check Valve C/W Lever Weight and Guard	DN65	PN16
SWCVLWG0080	80mm PN16 Flanged Metal Swing Check Valve C/W Lever Weight and Guard	DN80	PN16
SWCVLWG0100	100mm PN16 Flanged Metal Swing Check Valve C/W Lever Weight and Guard	DN100	PN16
SWCVLWG0125	125mm PN16 Flanged Metal Swing Check Valve C/W Lever Weight and Guard	DN125	PN16
SWCVLWG0150	150mm PN16 Flanged Metal Swing Check Valve C/W Lever Weight and Guard	DN150	PN16
SWCVLWG0200	200mm PN16 Flanged Metal Swing Check Valve C/W Lever Weight and Guard	DN200	PN16
SWCVLWG0250	250mm PN16 Flanged Metal Swing Check Valve C/W Lever Weight and Guard	DN250	PN16
SWCVLWG0300	300mm PN16 Flanged Metal Swing Check Valve C/W Lever Weight and Guard	DN300	PN16
SWCVLWG0350	350mm PN16 Flanged Metal Swing Check Valve C/W Lever Weight and Guard	DN350	PN16
SWCVLWG0400	400mm PN16 Flanged Metal Swing Check Valve C/W Lever Weight and Guard	DN400	PN16
SWCVLWG0450	450mm PN16 Flanged Metal Swing Check Valve C/W Lever Weight and Guard	DN450	PN16
SWCVLWG0500	500mm PN16 Flanged Metal Swing Check Valve C/W Lever Weight and Guard	DN500	PN16
SWCVLWG0600	600mm PN16 Flanged Metal Swing Check Valve C/W Lever Weight and Guard	DN600	PN16
SWCVLWG0700	700mm PN16 Flanged Metal Swing Check Valve C/W Lever Weight and Guard	DN700	PN16
SWCVLWG0800	800mm PN16 Flanged Metal Swing Check Valve C/W Lever Weight and Guard	DN800	PN16
SWCVLWG0900	900mm PN16 Flanged Metal Swing Check Valve C/W Lever Weight and Guard	DN900	PN16
SWCVLWG1000	1000mm PN16 Flanged Metal Swing Check Valve C/W Lever Weight and Guard	DN1000	PN16

Dual Plate Check Valves

Model C

Check valve are clamped between two flanges as a reflux preventer. It has two vanes which, for example, open on starting a pump and will immediately close upon switching off the pump through the pressure exerted by the head of water and the spring restoring force. The check valve can both be installed in horizontal and vertical pipelines and is suitable for temperatures from -10 °C to +60 °C.

FEATURES

- Maximum working pressure 40 bar.
- For higher pressures, our dual plate model B is available.
- Minimum back pressure to ensure water tightness 0,5 bar.
- Wafer version as standard, flanged type upon request.
- Quick and silent closing.
- Versions in cast iron and welded steel protected with epoxy powder coating.
- Maximum working temperature according to material selection.
- Maximum working pressure will depend on selected materials.
- Valid for 40 bar up to DN300, 25 bar up to DN400, and 16 bar for bigger sizes.
- For higher pressures, our dual plate model B is available.

STANDARDS

- Short face to face distance according to ISO 5752, Series16, and DIN 3202 K3
- Manufacturing range from DN40 to DN1200 Face to face distance according to ISO 5752, Series16, and DIN 3202 K3
- Body: Duplex DIN14469 A 890 5A
- Plates: Duplex DIN14469 A 890 5A

OPTIONS

- Valid for installation between flanges PN10, PN16, PN25, PN40 or ANSI-150.
- For special applications we manufacture as follows: Shafts; 254 SMO, Springs: Inconel 750X, Liner: EPDM

Model B

FEATURES

- Face to face distance according to API-594.
- Rating class 150/1500 or PN 10/250
- Maximum working pressure 250 bar.
- Minimum back pressure to ensure water tightness 0,5 bar.
- Quick and silent closing.
- Maximum working temperature according to material selection.

STANDARDS

- Face to face distance according to API-594.

OPTIONS

- Wafer version as standard, flanged type upon request.
- Versions in welded steel protected with epoxy powder coating.

EMG

FEATURES

- Short face to face distance according to DIN 3202 K3
- Centering lugs valid for installation between flanges PN6, PN10, PN16, ANSI-150,
- BS Table E/D, JIS 5K/10K.
- Maximum working pressure 16 bar.
- For higher pressures, our dual plate model C and model B are available.
- Minimum back pressure to ensure water tightness 0,5 bar
- Internal fully lined body with NBR or EPDM.
- No flange gasket required.
- Casette type internal parts, allowing easy replacement (plates, shaft and springs)
- Quick and silent closing
- No external holes or plugs in the body.
- Protected with blue epoxy powder coating
- Maximum working temperature according to material selection

STANDARDS

- Short face to face distance according to DIN 3202 K3
- BS Table E/D, JIS 5K/10K

OPTIONS

- Internal fully lined body with NBR or EPDM

Dual Plate Wafer Check Valve, PN16 Flanges, Cast Iron Body, Ductile Iron Plates (Model C)

PART NUMBER	DESCRIPTION	DN mm	PN
	125mm Dual Plate Wafer Check Valve PN16 Flanges Cast Iron Body, Ductile Iron Plates (Model C)	DN125	PN16
C15073821	150mm Dual Plate Wafer Check Valve PN16 Flanges Cast Iron Body, Ductile Iron Plates (Model C)	DN150	PN16
C20073821	200mm Dual Plate Wafer Check Valve PN16 Flanges Cast Iron Body, Ductile Iron Plates (Model C)	DN200	PN16
C25073821	250mm Dual Plate Wafer Check Valve PN16 Flanges Cast Iron Body, Ductile Iron Plates (Model C)	DN250	PN16
C30073821	300mm Dual Plate Wafer Check Valve PN16 Flanges Cast Iron Body, Ductile Iron Plates (Model C)	DN300	PN16
C35073821	350mm Dual Plate Wafer Check Valve PN16 Flanges Cast Iron Body, Ductile Iron Plates (Model C)	DN350	PN16
C40073821	400mm Dual Plate Wafer Check Valve PN16 Flanges Cast Iron Body, Ductile Iron Plates (Model C)	DN400	PN16
C45073821	450mm Dual Plate Wafer Check Valve PN16 Flanges Cast Iron Body, Ductile Iron Plates (Model C)	DN450	PN16
C50073821	500mm Dual Plate Wafer Check Valve PN16 Flanges Cast Iron Body, Ductile Iron Plates (Model C)	DN500	PN16

Dual Plate Wafer Check Valve, PN16 Flanges, Cast Iron Body, Stainless Steel Plates (Model C)

PART NUMBER	DESCRIPTION	DN mm	PN
	50mm Dual Plate Wafer Check Valve, PN16 Flanges, Cast Iron Body, Stainless Steel Plates (Model C)	DN50	PN16
	65mm Dual Plate Wafer Check Valve, PN16 Flanges, Cast Iron Body, Stainless Steel Plates (Model C)	DN65	PN16
	80mm Dual Plate Wafer Check Valve, PN16 Flanges, Cast Iron Body, Stainless Steel Plates (Model C)	DN80	PN16
	100mm Dual Plate Wafer Check Valve, PN16 Flanges, Cast Iron Body, Stainless Steel Plates (Model C)	DN100	PN16
	125mm Dual Plate Wafer Check Valve, PN16 Flanges, Cast Iron Body, Stainless Steel Plates (Model C)	DN125	PN16
	150mm Dual Plate Wafer Check Valve, PN16 Flanges, Cast Iron Body, Stainless Steel Plates (Model C)	DN150	PN16
	200mm Dual Plate Wafer Check Valve, PN16 Flanges, Cast Iron Body, Stainless Steel Plates (Model C)	DN200	PN16
	250mm Dual Plate Wafer Check Valve, PN16 Flanges, Cast Iron Body, Stainless Steel Plates (Model C)	DN250	PN16
	300mm Dual Plate Wafer Check Valve, PN16 Flanges, Cast Iron Body, Stainless Steel Plates (Model C)	DN300	PN16
	350mm Dual Plate Wafer Check Valve, PN16 Flanges, Cast Iron Body, Stainless Steel Plates (Model C)	DN350	PN16
	400mm Dual Plate Wafer Check Valve, PN16 Flanges, Cast Iron Body, Stainless Steel Plates (Model C)	DN400	PN16
	450mm Dual Plate Wafer Check Valve, PN16 Flanges, Cast Iron Body, Stainless Steel Plates (Model C)	DN450	PN16
	500mm Dual Plate Wafer Check Valve, PN16 Flanges, Cast Iron Body, Stainless Steel Plates (Model C)	DN500	PN16
	600mm Dual Plate Wafer Check Valve, PN16 Flanges, Cast Iron Body, Stainless Steel Plates (Model C)	DN600	PN16

Dual Plate Wafer Check Valve, Stainless Steel Plates, EPDM (Model EMG)

PART NUMBER	DESCRIPTION	DN mm	PN
	40mmDual Plate Wafer Check Valve, Stainless Steel Plates, EPDM (Model EMG)	DN40	PN 16
	50mmDual Plate Wafer Check Valve, Stainless Steel Plates, EPDM (Model EMG)	DN50	PN 16
	65mmDual Plate Wafer Check Valve, Stainless Steel Plates, EPDM (Model EMG)	DN65	PN 16
	80mmDual Plate Wafer Check Valve, Stainless Steel Plates, EPDM (Model EMG)	DN80	PN 16
	100mmDual Plate Wafer Check Valve, Stainless Steel Plates, EPDM (Model EMG)	DN100	PN 16
	125mmDual Plate Wafer Check Valve, Stainless Steel Plates, EPDM (Model EMG)	DN125	PN 16
	150mmDual Plate Wafer Check Valve, Stainless Steel Plates, EPDM (Model EMG)	DN150	PN 16
	200mmDual Plate Wafer Check Valve, Stainless Steel Plates, EPDM (Model EMG)	DN200	PN 16
	250mmDual Plate Wafer Check Valve, Stainless Steel Plates, EPDM (Model EMG)	DN250	PN 16
	300mmDual Plate Wafer Check Valve, Stainless Steel Plates, EPDM (Model EMG)	DN300	PN 16

Nozzle Check Valves

DN 80 - 600
PN 16,25,40

The ERHARD non slam nozzle check valve is one of the most economical non return valves. It is used to prevent reflux of the flow medium in a pipeline. The innovative ERHARD non slam nozzle check valve offers ERHARD quality with an optimum price-output ratio and excellent hydraulic performance. Thanks to some special design features, the ERHARD non slam nozzle check valve is the ideal non-return valve for any application. The valve can be used for water supply, pump stations, water distribution, industry & process engineering.

Flow media: untreated water and drinking water as well as cleaned sewage water.

The ERHARD non slam nozzle check valve allows enormous energy savings – thanks to its low head-loss coefficients.

FEATURES

- Temperatures: up to 60 °C (water)
- Face-to-face dimensions: adaptation to all the common face-to-face dimensions possible
- Special designs upon request
- Economical by continuous energy saving, low operating costs
- Light weight, very little space requirement with standardised length
- High grade surface protection, outside EKB-epoxy coating, inside vitreous enamel
- Compact shape and short face-to-face dimension. Standard face-to-face to EN 558 series 14
- Streamlined valve disc an valve ring, corrosion resistant material with rubber coating (zinc-free bronze, elastomer), elastomer with KTW and W270 approvals
- Optimum hydraulic characteristics: quick response, short closing stroke and thus minimized pressure surges
- Safe function for life, internal components easily exchangeable
- Any position of installation possible (horizontal / vertical / inclined), adaptable to any plant conditions, spring force adapted to the various cases of application, high flow velocities and pressure ratings

STANDARDS

- Standard face to face EN 558 series 14
- Streamlined valve disc an valve ring, corrosion resistant-material with rubber coating (zinc-free bronze, elastomer), elastomer with KTW and W270 approvals

OPTIONS

- Special designs upon request

Non Slam Nozzle Check Valve, PN16 Flanged

PART NUMBER	DESCRIPTION	DN mm	PN
NCV0080	80mm Non Slam Nozzle Check Valve, PN16 Flanged	DN80	PN16
NCV00100	100mm Non Slam Nozzle Check Valve, PN16 Flanged	DN100	PN16
NCV00125	125mm Non Slam Nozzle Check Valve, PN16 Flanged	DN125	PN16
NCV00150	150mm Non Slam Nozzle Check Valve, PN16 Flanged	DN150	PN16
NCV00200	200mm Non Slam Nozzle Check Valve, PN16 Flanged	DN200	PN16
NCV00250	250mm Non Slam Nozzle Check Valve, PN16 Flanged	DN250	PN16
NCV00300	300mm Non Slam Nozzle Check Valve, PN16 Flanged	DN300	PN16
NCV00350	350mm Non Slam Nozzle Check Valve, PN16 Flanged	DN350	PN16
NCV00400	400mm Non Slam Nozzle Check Valve, PN16 Flanged	DN400	PN16
NCV00450	450mm Non Slam Nozzle Check Valve, PN16 Flanged	DN450	PN16
NCV00500	500mm Non Slam Nozzle Check Valve, PN16 Flanged	DN500	PN16
NCV00600	600mm Non Slam Nozzle Check Valve, PN16 Flanged	DN600	PN16

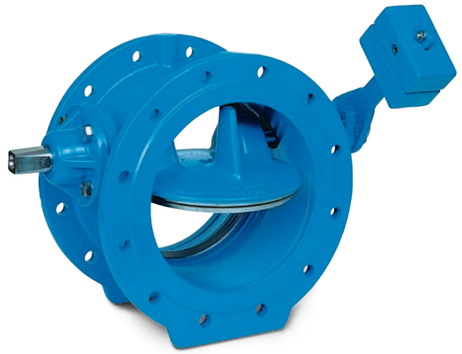
Non Slam Nozzle Check Valve, PN25 Flanged

PART NUMBER	DESCRIPTION	DN mm	PN
NCV0080PN25	80mm Non Slam Nozzle Check Valve, PN25 Flanged	DN80	PN25
NCV00100PN25	100mm Non Slam Nozzle Check Valve, PN25 Flanged	DN100	PN25
NCV00125PN25	125mm Non Slam Nozzle Check Valve, PN25 Flanged	DN125	PN25
NCV00150PN25	150mm Non Slam Nozzle Check Valve, PN25 Flanged	DN150	PN25
NCV00200PN25	200mm Non Slam Nozzle Check Valve, PN25 Flanged	DN200	PN25
NCV00250PN25	250mm Non Slam Nozzle Check Valve, PN25 Flanged	DN250	PN25
NCV00300PN25	300mm Non Slam Nozzle Check Valve, PN25 Flanged	DN300	PN25

Non Slam Nozzle Check Valve, PN40 Flanged

PART NUMBER	DESCRIPTION	DN mm	PN
NCV0080PN40	80mm Non Slam Nozzle Check Valve, PN40 Flanged	DN80	PN40
NCV00100PN40	100mm Non Slam Nozzle Check Valve, PN40 Flanged	DN100	PN40
NCV00125PN40	125mm Non Slam Nozzle Check Valve, PN40 Flanged	DN125	PN40
NCV00150PN40	150mm Non Slam Nozzle Check Valve, PN40 Flanged	DN150	PN40
NCV00200PN40	200mm Non Slam Nozzle Check Valve, PN40 Flanged	DN200	PN40
NCV00250PN40	250mm Non Slam Nozzle Check Valve, PN40 Flanged	DN250	PN40
NCV00300PN40	300mm Non Slam Nozzle Check Valve, PN40 Flanged	DN300	PN40

Tilting Disk Check Valves



DN 150 - 1200
PN 16-25

Titling-disk check valve, balanced with weight-loaded leaver, ensuring the protection of pumps or of parts of networks against flow inversion. This valve can be used for an extensive range of applicatins and is suitable for drinking water networks, irrigation networks (filtered water) and fire protection networks.

FEATURES

- Temperatures: from +10°C to 80°C
- Low head loss
- Opening under low differential pressure
- Extensive range of pressures and diameters
- Double eccentric design, allowing low operating torque and low wear and tear of the disk seal
- Stainless steel body seat and disk seat for protection against corrosion.
- NBR resilient precision seal, inserted in the stainless steel disk seat
- Internal and external blue epoxy coating
- Possible mounting of the lever arm on the both sides of the check valve
- Possible modification of the orientation of the lever arm in order to influence the disk opening or closing (function of the position of the check valve).
- Adjustment of the sensitivity of the disk for opening or closing
- Maintenance free

STANDARDS

- Fully tested manufacturing according to standard DIN 3230-BN
- Face-to-face dimensions according to standards EN 558-1 series 14 (except DN 1100) and ISO 5752 series 14 (except DN 1100)

OPTIONS

- EPDM or VITTON resilient precision seal
- Maximal working pressure: PN 40
- Limit switching for open and closed position
- Protective guard system
- Nominal diameters DN 1400
- Tilting-disk check valves with hydraulic damping device

Tilting Disc Check Valve, PN16, EPDM Seals

PART NUMBER	DESCRIPTION	DN mm	PN
TILT/DISC/L&W0150	150mm Tilting Disc Check Valve, PN16, EPDM Seals	DN150	PN16
TILT/DISC/L&W0200	200mm Tilting Disc Check Valve, PN16, EPDM Seals	DN200	PN16
TILT/DISC/L&W0250	250mm Tilting Disc Check Valve, PN16, EPDM Seals	DN250	PN16
TILT/DISC/L&W0300	300mm Tilting Disc Check Valve, PN16, EPDM Seals	DN300	PN16
TILT/DISC/L&W0350	350mm Tilting Disc Check Valve, PN16, EPDM Seals	DN350	PN16
TILT/DISC/L&W0400	400mm Tilting Disc Check Valve, PN16, EPDM Seals	DN400	PN16
TILT/DISC/L&W0450	450mm Tilting Disc Check Valve, PN16, EPDM Seals	DN450	PN16
TILT/DISC/L&W0500	500mm Tilting Disc Check Valve, PN16, EPDM Seals	DN500	PN16
TILT/DISC/L&W0600	600mm Tilting Disc Check Valve, PN16, EPDM Seals	DN600	PN16
TILT/DISC/L&W0700	700mm Tilting Disc Check Valve, PN16, EPDM Seals	DN700	PN16
TILT/DISC/L&W0800	800mm Tilting Disc Check Valve, PN16, EPDM Seals	DN800	PN16
TILT/DISC/L&W0900	900mm Tilting Disc Check Valve, PN16, EPDM Seals	DN900	PN16
TILT/DISC/L&W1000	1000mm Tilting Disc Check Valve, PN16, EPDM Seals	DN1000	PN16
TILT/DISC/L&W1200	1200mm Tilting Disc Check Valve, PN16, EPDM Seals	DN1200	PN16

Tilting Disc Check Valve, PN16, EPDM Seals, C/W Basket Guard

PART NUMBER	DESCRIPTION	DN mm	PN
TILT/DISC/LWG0150	150mm Tilting Disc Check Valve, PN16, EPDM Seals, C/W Basket Guard	DN150	PN16
TILT/DISC/LWG0200	200mm Tilting Disc Check Valve, PN16, EPDM Seals, C/W Basket Guard	DN200	PN16
TILT/DISC/LWG0250	250mm Tilting Disc Check Valve, PN16, EPDM Seals, C/W Basket Guard	DN250	PN16
TILT/DISC/LWG0300	300mm Tilting Disc Check Valve, PN16, EPDM Seals, C/W Basket Guard	DN300	PN16
TILT/DISC/LWG0350	350mm Tilting Disc Check Valve, PN16, EPDM Seals, C/W Basket Guard	DN350	PN16
TILT/DISC/LWG0400	400mm Tilting Disc Check Valve, PN16, EPDM Seals, C/W Basket Guard	DN400	PN16
TILT/DISC/LWG0450	450mm Tilting Disc Check Valve, PN16, EPDM Seals, C/W Basket Guard	DN450	PN16
TILT/DISC/LWG0500	500mm Tilting Disc Check Valve, PN16, EPDM Seals, C/W Basket Guard	DN500	PN16
TILT/DISC/LWG0600	600mm Tilting Disc Check Valve, PN16, EPDM Seals, C/W Basket Guard	DN600	PN16

Tilting Disc Check Valve, PN25, EPDM Seals

PART NUMBER	DESCRIPTION	DN mm	PN
	150mm Tilting Disc Check Valve, PN25, EPDM Seals	DN150	PN25
	200mm Tilting Disc Check Valve, PN25, EPDM Seals	DN200	PN25
	250mm Tilting Disc Check Valve, PN25, EPDM Seals	DN250	PN25
	300mm Tilting Disc Check Valve, PN25, EPDM Seals	DN300	PN25
	350mm Tilting Disc Check Valve, PN25, EPDM Seals	DN350	PN25
	400mm Tilting Disc Check Valve, PN25, EPDM Seals	DN400	PN25
	450mm Tilting Disc Check Valve, PN25, EPDM Seals	DN450	PN25
	500mm Tilting Disc Check Valve, PN25, EPDM Seals	DN500	PN25
	600mm Tilting Disc Check Valve, PN25, EPDM Seals	DN600	PN25
	700mm Tilting Disc Check Valve, PN25, EPDM Seals	DN700	PN25

Tilting Disc Check Valve, PN25, EPDM Seals C/W Basket Guard

PART NUMBER	DESCRIPTION	DN mm	PN
	150mm Tilting Disc Check Valve, PN25, EPDM Seals	DN150	PN25
	200mm Tilting Disc Check Valve, PN25, EPDM Seals	DN200	PN25
	250mm Tilting Disc Check Valve, PN25, EPDM Seals	DN250	PN25
	300mm Tilting Disc Check Valve, PN25, EPDM Seals	DN300	PN25
	350mm Tilting Disc Check Valve, PN25, EPDM Seals	DN350	PN25
	400mm Tilting Disc Check Valve, PN25, EPDM Seals	DN400	PN25
	450mm Tilting Disc Check Valve, PN25, EPDM Seals	DN450	PN25
	500mm Tilting Disc Check Valve, PN25, EPDM Seals	DN500	PN25
	600mm Tilting Disc Check Valve, PN25, EPDM Seals	DN600	PN25
	700mm Tilting Disc Check Valve, PN25, EPDM Seals	DN700	PN25

Tilting Disk Check Valves

Tilting Disc Check Valve, PN16, NBR Seals

PART NUMBER	DESCRIPTION	DN mm	PN
	150mm Tilting Disc Check Valve, PN16, EPDM Seals	DN150	PN16
	200mm Tilting Disc Check Valve, PN16, EPDM Seals	DN200	PN16
	250mm Tilting Disc Check Valve, PN16, EPDM Seals	DN250	PN16
	300mm Tilting Disc Check Valve, PN16, EPDM Seals	DN300	PN16
	350mm Tilting Disc Check Valve, PN16, EPDM Seals	DN350	PN16
	400mm Tilting Disc Check Valve, PN16, EPDM Seals	DN400	PN16
	450mm Tilting Disc Check Valve, PN16, EPDM Seals	DN450	PN16
	500mm Tilting Disc Check Valve, PN16, EPDM Seals	DN500	PN16
	600mm Tilting Disc Check Valve, PN16, EPDM Seals	DN600	PN16
	700mm Tilting Disc Check Valve, PN16, EPDM Seals	DN700	PN16
	800mm Tilting Disc Check Valve, PN16, EPDM Seals	DN800	PN16
	900mm Tilting Disc Check Valve, PN16, EPDM Seals	DN900	PN16
	1000mm Tilting Disc Check Valve, PN16, EPDM Seals	DN1000	PN16
	1200mm Tilting Disc Check Valve, PN16, EPDM Seals	DN1200	PN16

Tilting Disc Check Valve, PN16, NBR Seals C/W Basket Guard

PART NUMBER	DESCRIPTION	DN mm	PN
	150mm Tilting Disc Check Valve, PN16, NBR Seals C/W Basket Guard	DN150	PN16
	200mm Tilting Disc Check Valve, PN16, NBR Seals C/W Basket Guard	DN200	PN16
	250mm Tilting Disc Check Valve, PN16, NBR Seals C/W Basket Guard	DN250	PN16
	300mm Tilting Disc Check Valve, PN16, NBR Seals C/W Basket Guard	DN300	PN16
	350mm Tilting Disc Check Valve, PN16, NBR Seals C/W Basket Guard	DN350	PN16
	400mm Tilting Disc Check Valve, PN16, NBR Seals C/W Basket Guard	DN400	PN16
	450mm Tilting Disc Check Valve, PN16, NBR Seals C/W Basket Guard	DN450	PN16
	500mm Tilting Disc Check Valve, PN16, NBR Seals C/W Basket Guard	DN500	PN16
	600mm Tilting Disc Check Valve, PN16, NBR Seals C/W Basket Guard	DN600	PN16

Tilting Disc Check Valve c/w Hydraulic Damping Cylinder, PN16, NBR Seals

PART NUMBER	DESCRIPTION	DN mm	PN
	150mm Tilting Disc Check Valve c/w Hydraulic Damping Cylinder, PN16, NBR Seals	DN150	PN16
	200mm Tilting Disc Check Valve c/w Hydraulic Damping Cylinder, PN16, NBR Seals	DN200	PN16
	250mm Tilting Disc Check Valve c/w Hydraulic Damping Cylinder, PN16, NBR Seals	DN250	PN16
	300mm Tilting Disc Check Valve c/w Hydraulic Damping Cylinder, PN16, NBR Seals	DN300	PN16
	350mm Tilting Disc Check Valve c/w Hydraulic Damping Cylinder, PN16, NBR Seals	DN350	PN16
	400mm Tilting Disc Check Valve c/w Hydraulic Damping Cylinder, PN16, NBR Seals	DN400	PN16
	450mm Tilting Disc Check Valve c/w Hydraulic Damping Cylinder, PN16, NBR Seals	DN450	PN16
	500mm Tilting Disc Check Valve c/w Hydraulic Damping Cylinder, PN16, NBR Seals	DN500	PN16
	600mm Tilting Disc Check Valve c/w Hydraulic Damping Cylinder, PN16, NBR Seals	DN600	PN16
	700mm Tilting Disc Check Valve c/w Hydraulic Damping Cylinder, PN16, NBR Seals	DN700	PN16
	800mm Tilting Disc Check Valve c/w Hydraulic Damping Cylinder, PN16, NBR Seals	DN800	PN16
	900mm Tilting Disc Check Valve c/w Hydraulic Damping Cylinder, PN16, NBR Seals	DN900	PN16
	1000mm Tilting Disc Check Valve c/w Hydraulic Damping Cylinder, PN16, NBR Seals	DN1000	PN16
	1200mm Tilting Disc Check Valve c/w Hydraulic Damping Cylinder, PN16, NBR Seals	DN1200	PN16

Ball Check Valves

DN 40 - 400
PN 10

Ball check valve with threaded ends or flanges ensure the protection of the pumps against flow inversion. Ball check valves can be used in a variety of applications from pumping stations for sewage water and loaded or viscous fluids. Ball check valves are specially designed for pumping waste water however they can be often used clean water because of its low headloss.

FEATURES

- Range:
  - DN 25 to 80 (1" to 3") threaded.
  - DN 40 to 400 flanged.
- Maximal working pressure:
  - PN 16 DN 40 to 200
  - PN 10 DN 250 to 400
- Temperatures: from -10°C to +80°C.
- Full bore ensured by total clearance of the ball, preventing any risk of clogging.
- Low head loss due to full bore.
- Self cleaning ball, guided by the flow up to its lateral housing, then it moves aside.
- Sealing, even with low pressure, obtained by a ball fully encapsulated in moulded elastomer, in horizontal or ascendant vertical mounting.
- Valid for installation between PN10 or PN16 flanges or BSP thread.
- Minimum differential pressure to ensure water tightness 0,5 bar.
- Easy maintenance.
- Anti-corrosion epoxy coating.
- Mounting horizontal and ascendant vertical

STANDARDS

- Sealing category A according to standard ISO 5208
- For type 134, face-to-face dimensions according to standard EN558-1 series 48 for DN 40 to 300 and EN 558-1 series 1 for DN 400.
- Flange drilling according to standards EN 1092-2 and ISO 7005-2:
  - ISO PN 10/16 for DN 40 to 150.- ISO PN 10 for DN 200 to 400.- ISO PN 16 on request for DN 200.
- «BSP» profile thread according to standards ISO 228-1 and NF E 03-005

OPTIONS

- Material:- Resin ball, aluminium or ductile iron, fully encapsulated in moulded elastomer
- Maintenance-free. - Removable bonnet version (type 17 and 134) or removable seat version (type 18), enabling the replacement of the ball

Ball Check Valve, PN10, Flanged

PART NUMBER	DESCRIPTION	DN mm	PN
BCV/F/0040	40mm Ball Check Valve, PN10, Flanged	DN40	PN10
BCV/F/0050	50mm Ball Check Valve, PN10, Flanged	DN50	PN10
BCV/F/0065	65mm Ball Check Valve, PN10, Flanged	DN65	PN10
BCV/F/0080	80mm Ball Check Valve, PN10, Flanged	DN80	PN10
BCV/F/0100	100mm Ball Check Valve, PN10, Flanged	DN100	PN10
BCV/F/0125	125mm Ball Check Valve, PN10, Flanged	DN125	PN10
BCV/F/0150	150mm Ball Check Valve, PN10, Flanged	DN150	PN10
BCV/F/0200	200mm Ball Check Valve, PN10, Flanged	DN200	PN10
BCV/F/0250	250mm Ball Check Valve, PN10, Flanged	DN250	PN10
BCV/F/0300	300mm Ball Check Valve, PN10, Flanged	DN300	PN10
BCV/F/0350	350mm Ball Check Valve, PN10, Flanged	DN350	PN10
BCV/F/0400	400mm Ball Check Valve, PN10, Flanged	DN400	PN10

Ball Check Valve, PN10, Threaded

PART NUMBER	DESCRIPTION	DN	PN
	1" Ball Check Valve, PN10, BSP Threaded	DN25	PN10
	1.25" Ball Check Valve, PN10, BSP Threaded	DN32	PN10
	1.5" Ball Check Valve, PN10, BSP Threaded	DN40	PN10
	2" Ball Check Valve, PN10, BSP Threaded	DN50	PN10
	2.5" Ball Check Valve, PN10, BSP Threaded	DN65	PN10

Strate RSK Non Return Valve

DN 100 - 350 : PN 10
DN 400- DN 900 : PN 6

The unsurpassed reliability and service life of the STRATE RSK non-return valves are the result of years of product development and the development of specific variants.

STRATE RSK non-return valves are ideal for an extensive range of applications. such as:

- Sewage technology, media with solids and coarse solids, sludge (up to 5 % TM)
- Fresh and surface water technology, including in areas where high pressure losses make powerful pumps necessary
- Areas where the avoidance of water hammer is very important: In these cases it is necessary to extend the standard valve RSK by the additional component STRATE spring loading (RSK-FT or RSK-FTU).
- Areas where pressure surges are to be expected. In such application cases, it is necessary to extend the standard valve RSK by the additional components STRATE spring loading (RSK-FT or RSK-FTU) and STRATE surge damping valve (RSK-UD or RSK-FTUD) STRATE project engineers will be happy to answer any questions you or your planning office may have related to the selection of the suitable STRATE non-return valve system or other matters.

FEATURES

- Make maximum operational safety possible
- Excellent value-for-money and low maintenance requirements
- Offer as a technically mature design:
  - -Low flow resistance
  - -Quiet operation
  - -Minimum clogging tendency through free flow cross-section
  - -Fail-safe closing of the valve disc even under high pressures
  - -Particularly suitable for "heavy duty" applications, even where there is a risk of water hammer or pressure surges
- Spring load instead of lever and weight- quick closure (to reduce pressure surge and water hammer
- Bypass with pressure surge damping valve- pressure relief: to reduce pressure peaks
- Closing elements of the RSK nonreturn valves made of butyl rubber B100

STANDARDS

- Face-to-face dimensions in accordance with DIN 3202
- DN50 to DN350: Operating pressure max. 10 bar (PN10) Housing made of EN-GJL-250 (GG 25)
- Flanges in accordance with DIN 2532, PN10 Coating/corrosion protection: Acrylic combination paint, RAL 6011 green
- DN400 to DN1000: Operating pressure max. 6 bar (PN6) Housing made of RST 37.2 (welded) Seat ring made of chrome-nickel-steel Flanges in accordance with DIN 2632, PN10 Coating/corrosion protection: 2-component coating on epoxy resin basis, DB 601 green

OPTIONS

- Depending on the application case:
  - – other elastic materials such as Perbunan, Viton, silicone etc. can be used to make operating temperatures from –35°C to +230°C possible
  - – other coating systems such as plastic (electrostatic plastic coating), chemical nickel-plating or special coatings can be used
  - – other special versions can be made e.g. housing in special material, different pressure grades etc.

RSK SB NRV - Aluminium - Silicon EFRO260 Flap Non Return Valves

PART NUMBER	DESCRIPTION	DN mm	PN
STRATE/5610050/S	50mm RSK SB NRV - Aluminium - Silicon EFRO260 Flap Non Return Valves	DN50	
STRATE/5610065/S	65mm RSK SB NRV - Aluminium - Silicon EFRO260 Flap Non Return Valves	DN65	
STRATE/5610080/S	80mm RSK SB NRV - Aluminium - Silicon EFRO260 Flap Non Return Valves	DN80	
STRATE/5610100/S	100mm RSK SB NRV - Aluminium - Silicon EFRO260 Flap Non Return Valves	DN100	
STRATE/5610125/S	125mm RSK SB NRV - Aluminium - Silicon EFRO260 Flap Non Return Valves	DN125	
STRATE/5610150/S	150mm RSK SB NRV - Aluminium - Silicon EFRO260 Flap Non Return Valves	DN150	
STRATE/5610200/S	200mm RSK SB NRV - Aluminium - Silicon EFRO260 Flap Non Return Valves	DN200	
STRATE/5610250/S	250mm RSK SB NRV - Aluminium - Silicon EFRO260 Flap Non Return Valves	DN250	

Needle Valves

DN 100 - 1200
PN 16

Needle valves have been part of ERHARD's extensive product range for more than 100 years. This experience is reflected in thousands of installed valves which have proven their worth in daily use. Needle valves are designed for flow and pressure control, they are available as a one-piece type (e.g ERHARD RKV Premium needle valve) or a multipart type. Depending on the task to be fulfilled and the potential for cavitation a suitable control insert can be used: from a seat ring and a vaned ring to slotted cylinder and perforated cylinder through to other special types of control inserts. Our needle valve uses a tapered pin to gradually open a space for fine control of flow. The flow can be controlled and regulated with the use of spindle. A needle valve has a relatively small orifice with a long, tapered seat, and a needle-shaped plunger, on the end of a screw, which exactly fits this seat.

Our needle valves are the suitable valve to use whenever pressure heads or flow rates need to be safely and reliably reduced and controlled.

The ERHARD needle valve is suitable for drinking water, raw water and air. Their typical applications include use as:

- Pump start-up and control valve
- Reservoir inlet
- Control device in the bottom outlet valve of dams
- Control device in the inlet and bypass of turbines
- Safety device in the bypass outlet of turbines for quick opening
- Control and simultaneous safety device in pipe systems

ERHARD RKV needle valves can also be used in numerous control circuits, e. g:

- Downstream pressure control
- Upstream pressure control
- Reservoir control
- Flow control

FEATURES

- Designed as one piece
- Optimised flow behaviour and minimum head losses when fully open
- Regulation range up to 96% through linkage actuator with matched characteristic curve
- Regulating inserts for all areas of application: blade ring, slotted cylinder, pipe cylinder and other special inserts
- Broad main seal in cavitation-free zone, additional shaft sealing
- Four armoured guides and optimum protection against corrosion with EK
- Optimised flow guidance results in low zeta values thus enabling cost effective operation since the pressure loss is lower. In addition, the formation of stagnant water is reliably prevented.
- The main seal up to 15 mm wide is located in the hydraulically uncritical pressure zone is completely embedded in a stainless steel chamber. The resulting system offers optimum sealing and minimum wear at the same time.
- Using at least four wide guide strips from a bronze-aluminium alloy, the piston weight force is being vertically and evenly distributed. This reduces wear and extends the service life.
- In contrast to conventional needle valves having a dead stroke of up to 18 %, the ERHARD RKV Premium needle valve can already be precisely controlled from 4 % opening which results in a control range of up to 96 %.

STANDARDS

- Body: DN 100-300 and DN 350-1200/PN 25: ductile cast iron EN-JS1050, DN 350-1200/PN 10-16: grey cast iron EN-JL1040
- Gaskets / seals: elastomer, KTW and W270 approval
- Piston, shaft, slider crank, push rod, bolt: stainless steel
- Gearbox body: grey cast iron EN-JL1040
- Gearbox crank: ductile cast iron EN-JS1050
- Corrosion protection of the body parts: ERHARD EKB fusion bonded epoxy, colour "blue", coat thickness > 250 µm. Further coating options possible, we would be pleased to advise you

OPTIONS

A large number of actuator options are available, depending on the mounting position and field of application, and thanks to standardised connections, they can also be easily replaced at any time

Needle Valve, vaned ring, handwheel, PN16

PART NUMBER	DESCRIPTION	DN mm	PN
NEEDLEVVR0100HW	100mm Needle Valve, vaned ring, handwheel, PN16 Flanged	DN100	PN16
NEEDLEVVR0125HW	125mm Needle Valve, vaned ring, handwheel, PN16 Flanged	DN125	PN16
NEEDLEVVR0150HW	150mm Needle Valve, vaned ring, handwheel, PN16 Flanged	DN150	PN16
NEEDLEVVR0200HW	200mm Needle Valve, vaned ring, handwheel, PN16 Flanged	DN200	PN16
NEEDLEVVR0250HW	250mm Needle Valve, vaned ring, handwheel, PN16 Flanged	DN250	PN16
NEEDLEVVR0300HW	300mm Needle Valve, vaned ring, handwheel, PN16 Flanged	DN300	PN16
NEEDLEVVR0350HW	350mm Needle Valve, vaned ring, handwheel, PN16 Flanged	DN350	PN16
NEEDLEVVR0400HW	400mm Needle Valve, vaned ring, handwheel, PN16 Flanged	DN400	PN16
NEEDLEVVR0450HW	450mm Needle Valve, vaned ring, handwheel, PN16 Flanged	DN450	PN16
NEEDLEVVR0500HW	500mm Needle Valve, vaned ring, handwheel, PN16 Flanged	DN500	PN16
NEEDLEVVR0600HW	600mm Needle Valve, vaned ring, handwheel, PN16 Flanged	DN600	PN16
NEEDLEVVR0700HW	700mm Needle Valve, vaned ring, handwheel, PN16 Flanged	DN700	PN16
NEEDLEVVR0800HW	800mm Needle Valve, vaned ring, handwheel, PN16 Flanged	DN800	PN16

Needle Valve, Slotted Cylinder, handwheel, PN16

PART NUMBER	DESCRIPTION	DN mm	PN
NEEDLEVSC0100HW	100mm Needle Valve, Slotted Cylinder, handwheel, PN16 Flanged	DN100	PN16
NEEDLEVSC0125HW	125mm Needle Valve, Slotted Cylinder, handwheel, PN16 Flanged	DN125	PN16
NEEDLEVSC0150HW	150mm Needle Valve, Slotted Cylinder, handwheel, PN16 Flanged	DN150	PN16
NEEDLEVSC0200HW	200mm Needle Valve, Slotted Cylinder, handwheel, PN16 Flanged	DN200	PN16
NEEDLEVSC0250HW	250mm Needle Valve, Slotted Cylinder, handwheel, PN16 Flanged	DN250	PN16
NEEDLEVSC0300HW	300mm Needle Valve, Slotted Cylinder, handwheel, PN16 Flanged	DN300	PN16
NEEDLEVSC0350HW	350mm Needle Valve, Slotted Cylinder, handwheel, PN16 Flanged	DN350	PN16
NEEDLEVSC0400HW	400mm Needle Valve, Slotted Cylinder, handwheel, PN16 Flanged	DN400	PN16
NEEDLEVSC0450HW	450mm Needle Valve, Slotted Cylinder, handwheel, PN16 Flanged	DN450	PN16
NEEDLEVSC0500HW	500mm Needle Valve, Slotted Cylinder, handwheel, PN16 Flanged	DN500	PN16
NEEDLEVSC0600HW	600mm Needle Valve, Slotted Cylinder, handwheel, PN16 Flanged	DN600	PN16
NEEDLEVSC0700HW	700mm Needle Valve, Slotted Cylinder, handwheel, PN16 Flanged	DN700	PN16
NEEDLEVSC0800HW	800mm Needle Valve, Slotted Cylinder, handwheel, PN16 Flanged	DN800	PN16

Needle Valve, Vaned Ring Prepared for Actuation PN16

PART NUMBER	DESCRIPTION	DN mm	PN
NEEDLEVVR0100ELAC	100mm Needle Valve, Vaned Ring Prepared for Actuation PN16 Flanged	DN100	PN16
NEEDLEVVR0125ELAC	125mm Needle Valve, Vaned Ring Prepared for Actuation PN16 Flanged	DN125	PN16
NEEDLEVVR0150ELAC	150mm Needle Valve, Vaned Ring Prepared for Actuation PN16 Flanged	DN150	PN16
NEEDLEVVR0200ELAC	200mm Needle Valve, Vaned Ring Prepared for Actuation PN16 Flanged	DN200	PN16
NEEDLEVVR0250ELAC	250mm Needle Valve, Vaned Ring Prepared for Actuation PN16 Flanged	DN250	PN16
NEEDLEVVR0300ELAC	300mm Needle Valve, Vaned Ring Prepared for Actuation PN16 Flanged	DN300	PN16
NEEDLEVVR0350ELAC	350mm Needle Valve, Vaned Ring Prepared for Actuation PN16 Flanged	DN350	PN16
NEEDLEVVR0400ELAC	400mm Needle Valve, Vaned Ring Prepared for Actuation PN16 Flanged	DN400	PN16
NEEDLEVVR0450ELAC	450mm Needle Valve, Vaned Ring Prepared for Actuation PN16 Flanged	DN450	PN16
NEEDLEVVR0500ELAC	500mm Needle Valve, Vaned Ring Prepared for Actuation PN16 Flanged	DN500	PN16
NEEDLEVVR0600ELAC	600mm Needle Valve, Vaned Ring Prepared for Actuation PN16 Flanged	DN600	PN16
NEEDLEVVR0700ELAC	700mm Needle Valve, Vaned Ring Prepared for Actuation PN16 Flanged	DN700	PN16
NEEDLEVVR0800ELAC	800mm Needle Valve, Vaned Ring Prepared for Actuation PN16 Flanged	DN800	PN16
NEEDLEVVR0900ELAC	900mm Needle Valve, Vaned Ring Prepared for Actuation PN16 Flanged	DN900	PN16
NEEDLEVVR1000ELAC	1000mm Needle Valve, Vaned Ring Prepared for Actuation PN16 Flanged	DN1000	PN16

Needle Valve, Slotted Cylinder, Prepared for Actuation, PN16 Flanged

PART NUMBER	DESCRIPTION	DN mm	PN
NEEDLEVSC0100ELAC	100mm Needle Valve, Slotted Cylinder, Prepared for Actuation, PN16 Flanged	DN100	PN16
NEEDLEVSC0125ELAC	125mm Needle Valve, Slotted Cylinder, Prepared for Actuation, PN16 Flanged	DN125	PN16
NEEDLEVSC0150ELAC	150mm Needle Valve, Slotted Cylinder, Prepared for Actuation, PN16 Flanged	DN150	PN16
NEEDLEVSC0200ELAC	200mm Needle Valve, Slotted Cylinder, Prepared for Actuation, PN16 Flanged	DN200	PN16
NEEDLEVSC0250ELAC	250mm Needle Valve, Slotted Cylinder, Prepared for Actuation, PN16 Flanged	DN250	PN16
NEEDLEVSC0300ELAC	300mm Needle Valve, Slotted Cylinder, Prepared for Actuation, PN16 Flanged	DN300	PN16
NEEDLEVSC0350ELAC	350mm Needle Valve, Slotted Cylinder, Prepared for Actuation, PN16 Flanged	DN350	PN16
NEEDLEVSC0400ELAC	400mm Needle Valve, Slotted Cylinder, Prepared for Actuation, PN16 Flanged	DN400	PN16
NEEDLEVSC0450ELAC	450mm Needle Valve, Slotted Cylinder, Prepared for Actuation, PN16 Flanged	DN450	PN16
NEEDLEVSC0500ELAC	500mm Needle Valve, Slotted Cylinder, Prepared for Actuation, PN16 Flanged	DN500	PN16
NEEDLEVSC0600ELAC	600mm Needle Valve, Slotted Cylinder, Prepared for Actuation, PN16 Flanged	DN600	PN16
NEEDLEVSC0700ELAC	700mm Needle Valve, Slotted Cylinder, Prepared for Actuation, PN16 Flanged	DN700	PN16
NEEDLEVSC0800ELAC	800mm Needle Valve, Slotted Cylinder, Prepared for Actuation, PN16 Flanged	DN800	PN16
NEEDLEVSC0900ELAC	900mm Needle Valve, Slotted Cylinder, Prepared for Actuation, PN16 Flanged	DN900	PN16
NEEDLEVSC1000ELAC	1000mm Needle Valve, Slotted Cylinder, Prepared for Actuation, PN16 Flanged	DN1000	PN16
NEEDLEVSC1200ELAC	1200mm Needle Valve, Slotted Cylinder, Prepared for Actuation, PN16 Flanged	DN1200	PN16

Monostab

Pressure reducing valves such as the Monostab pressure reducing valve transform a higher, fluctuating inlet pressure into a lower, constant downstream pressure. The desired downstream pressure value is set by pretensioning the spring. The Monostabis suitable for an extensive range of applications such as domestic, insustrial. fire fighting networks and irrigation networks.

FEATURES

- Covers a large pressure range
- Guide piston outside the medium, no coating formation
- Stable rolling diaphragm for friction and delay-free operation
- All internal parts accessible from above, no special tools necessary
- Robust and simple construction.
- Safe operation.
- Unaffected by variations in upstream pressure and down-stream flow requirements.
- Friction-free operation and no risk of blockage.
- Manufactured since 1982.
- Body and bonnet made of ductile iron.
- Powder epoxy coating approved for contact with drinking water
- Stainless steel bolting.
- Removable stainless steel seat.
- Upper guide protected from contact with water.
- Lower guide coated with a scale inhibitor.
- PN 16 bar, 25 bar or 40 bar, depending on the model.
- Can be dismantled from above with no need for any special tools, and without having to disconnect the piping.

STANDARDS

- Tested according to standard EN 12266
- Face-to-face dimensions ISO 5752-1
- French Sanitary Compliance Certificate (A.C.S.).

Compliance with EC directives:

- Drinking water 98/63/EC
- Construction products 89/106/EC
- Pressure equipment directive 97/23/EC (networks for the supply, distribution and discharge of water and associated equipment are not covered by this directive, as mentioned in Article 1 paragraph 3.2).
- Compliance with the REACH Regulations (EC 1907/2006)

Environment:

- More than 98% recyclable.
- The wood and cardboard packaging can be re-used.
- Neutral packing materials can be taken to a waste treat-ment centre.

OPTIONS

- PN 16 bar, 25 bar or 40 bar, depending on the model.
- Spare parts readily available: Pressure gauges

Hydrostab

The effects of cavitation are devastating, particularly during the use of equipment with small openings or at high speeds. This device extends the normal operating range of a standard Hydrobloc valve under particularly severe operating conditions, with no risk of damage. The noise annoyance generated by these specific operating conditions is significantly reduced.

This servo-operated hydraulic valve, controlled by one or more appropriate devices, can be used for pressure, flow, level and pumping station control. Several functions can be combined to achieve numerous applications. It is particularly suitable for use in drinking water networks, industrial or fire fighting water networks,sScreened raw water (2 mm) for irrigation and drinking water treatment plants.

FEATURES

- Precise and stable regulation
- Stable back pressure in supply networks and maximum flow performance, e.g. for fire service requirements
- No external energy required for regulation, but high functional reliability
- Rapid and immediate regulation of pressure fluctuations

STANDARDS

- NF EN 1074-5.
- Sealing Class A in accordance with ISO 5208-2.
- Compliant with EN 12266.
- Face-to-face dimensions NF EN 558-1
- Series 1 and ISO 5752-1
- Series 1 (excluding DN 1000).
- Flange drilling in accordance with EN 1092-2and ISO 7005-2: ISO PN10 as standard, ISO
- PN 16, 25 or other drillings for DN 50 to 1000 (please consult us).
- French Sanitary Compliance Certificate (A.C.S.)

Hydrostab

Hydrostab pressure reducing valve - Series K1 10

- Reduces a higher upstream pressure to a steady lower downstream pressure regardless of variations in flow and/or upstream pressure.
- Closes and restores distribution by manual control.

Sample applications:
- Controlling and linking staged networks.
- Supplying a low-pressure network from a high-pressure network.
- Balancing supply to a gridiron system from several supplies with different higher pressures.

Hydrostab pressure sustaining/relief valve - Series K1 20

- Pressure sustaining: maintains a minimum pressure setpoint to sustain a full pipe.
- Pressure relief: transfers excess pressure from an upstream network to a lower pressure downstream network, reservoir or outfall when upstream pressure exceeds the set value.
- Closes and restores distribution by manual control.

Sample applications:
- Maintaining a pressure setpoint (in-line mounting on pipe) in order to:
  - Ensure minimum pressure at a high point or to a disadvantaged service connection.
  - Avoid an excessive pressure drop when supplying a reservoir and spread reservoir filling over time.
  - Maintain a minimum pressure on a pump and therefore limit flow to prevent it from working in the cavitation zone.
- When a pressure setpoint is reached, relieving pressure to an outlet (parallel mounting) in order to:
  - Prevent overpressure in a network when a shutoff component is closed.
  - Provide a minimum flow at a pump outlet to protect it from operating at too low a flow (depending on the pump curve).

Hydrostab pressure sustaining/reducing valve - Series K1 50

- Performs the functions of a Hydrostab pressure sustaining/relief valve (series K1 20) or a Hydrostab pressure reducing valve (series K1 10) depending on the installation operating conditions. The pressure sustaining/relief function always takes priority.
- Closes and restores distribution by manual control.

Sample applications:
- Increasing supply and protecting a low-pressure network from excess pressure from a high-pressure network, while guaranteeing a minimum pressure in the high-pressure network as a priority.
- Maintaining a minimum pressure at a pump outlet and stabilising pressure in the downstream network.

Hydro flow limiting valve - Series K2 10

- Limits the flow to within recommended operating limits regardless of upstream and downstream pressures.
- Closes and restores distribution by manual control.

Sample applications:
- Limiting flow to a reservoir, treatment plant or bulk water supply to avoid peak flow demands and spread supply over time.
- Balancing flow in a network.
- Mixing water qualities.

Hydro-Savy float valve - Series K3 20

- Closes completely at a constant, adjustable top level.
- Opens completely at a constant lower level after consumption of an adjustable water depth.
- Manually controlled opening and closure as an option.

Sample applications:
- Controlling supply to a low-consumption reservoir to ensure water renewal.
- Ensuring complete closing and opening, ideal for supplying a reservoir from a pumping station.

Raphael Valves

RAF Diaphragm control valve DN 25-DN350

RAF, a new concept of diaphragm hydraulic control valve consisting of three basic parts: body, cover and diaphragm. The "no-spring" diaphragm valve ensures even distribution of pressure on the sealing area, prevents diaphragm deformation and provides longer service life. The valve contains minimum number of moving parts and requires practically no maintenance.

The patented rib-style diaphragm has several advantages. Valves opening and closing is gradual and eliminates risk of water hammer, vibration and noise. It provides accurate and perfect pressure regulation al low flow-rates.

FEATURES

- Full valve opening is obtained at a very low pressure.
- One diaphragm controls the whole pressure range.

STANDARDS

- Standard: DIN / ANSI / BS

RAF-P Plastic diaphragm control valve DN30 - DN100

RAF-P, as the RAF, consists of three basic parts: body, cover and diaphragm. Entirely manufactured from durable plastic materials, the RAF-P valve offers the best corrosion resistance available in plastic technology with the stream lined, low friction hydraulic performance of the RAF metal valves. The "no-spring" diaphragm enables gradual and precise opening and closing of the valve, ideal for regulation purposes, making it totally maintenance free.
Recommended for use in irrigation and turf applications

STANDARDS

- Standard: DIN / ANSI / BS

RMI Water meter

Designed for irrigation application to avoid damage due to solid debris such as stones, weed, etc. Removable and interchangeable measuring unit for maintenance purpose.

FEATURES

- Dry type - magnetic coupling register.
- Very low head loss

STANDARDS

- Standard: ISO / ANSI / BS

Air Valves
Twin Airvalves

DN 50-200
PN10-40

ERHARD TWIN-AIR Air Valves are installed at the high points of closed conduits and downstream or upstream of valves. They may be used for pipe burst control valves, behind throttling points and feeding pumps or turbines. Air valves are needed for preventing troublesome air accumulations in the pipelines, supporting complete filling and emptying of a pipeline, limiting depression and evacuating gases (air) accumulated during operation under pressure.

FEATURES

- Compact design with low weight
- Flow optimized
- Lightweight type
- Safe operation
- Little maintenance
- Large air outflow and inflow cross sections
- For maximum air outflow and inflow velocities
- Automatic air release under operating conditions, lever-operated, with patented self-cleaning feature effective at each operating cycle
- Large orifice with connecting thread
- Effective corrosion protection
- Enclosed seal
- Pressure rating up to PN 40
- No copper alloy
- Self-centering float bal
- Automatic air admission and release of the pipeline during filling, operational air release and during the emptying process.
- Automatic operational air release via lever with patented self-cleaning during each switching cycle
- Internally enameled, externally EKB coated

STANDARDS

- Body and body cover made of ductile cast iron EN-JS 1050
- Body outside: EKB epoxy coating
- Body cover: inside and outside EKB epoxy coating
- Float ball for DN 50 to DN 100 made of multichamber GRP (optional of austenitic CrNi steel)
- Float ball for DN 150 and DN 200 made of austenitic CrNi steel (mat. No. 1.4571)
- Float guide and float assembly for evacuation under pressure made of austenitic CrNi steel (mat. 1.4571)

OPTIONS

- Special designs on request, e. g. with protective screen, with suppressed air-inflow feature etc.
- Float ball for DN 50 to DN 100 made of multichamber GRP (optional of austenitic CrNi steel)
- Also available for seawater application

Erhard Twin Air Valve PN10 Flanged

PART NUMBER	DESCRIPTION	DN mm	PN
TWINAIR0050PN10	50mm Erhard Twin Air Valve PN10 Flanged	DN50	PN10
TWINAIR0080PN10	80mm Erhard Twin Air Valve PN10 Flanged	DN80	PN10
TWINAIR0100PN10	100mm Erhard Twin Air Valve PN10 Flanged	DN100	PN10
TWINAIR0150PN10	150mm Erhard Twin Air Valve PN10 Flanged	DN150	PN10
TWINAIR0200PN10	200mm Erhard Twin Air Valve PN10 Flanged	DN200	PN10

Erhard Twin Air Valve PN16 Flanged

PART NUMBER	DESCRIPTION	DN mm	PN
TWINAIR0050PN16	50mm Erhard Twin Air Valve PN16 Flanged	DN50	PN16
TWINAIR0080PN16	80mm Erhard Twin Air Valve PN16 Flanged	DN80	PN16
TWINAIR0100PN16	100mm Erhard Twin Air Valve PN16 Flanged	DN100	PN16
TWINAIR0150PN16	150mm Erhard Twin Air Valve PN16 Flanged	DN150	PN16
TWINAIR0200PN16	200mm Erhard Twin Air Valve PN16 Flanged	DN200	PN16

Erhard Twin Air Valve PN25 Flanged

PART NUMBER	DESCRIPTION	DN mm	PN
TWINAIR0050PN25	50mm Erhard Twin Air Valve PN25 Flanged	DN50	PN25
TWINAIR0080PN25	80mm Erhard Twin Air Valve PN25 Flanged	DN80	PN25
TWINAIR0100PN25	100mm Erhard Twin Air Valve PN25 Flanged	DN100	PN25
TWINAIR0150PN25	150mm Erhard Twin Air Valve PN25 Flanged	DN150	PN25
TWINAIR0200PN25	200mm Erhard Twin Air Valve PN25 Flanged	DN200	PN25

Erhard Twin Air Valve PN40 Flanged

PART NUMBER	DESCRIPTION	DN mm	PN
TWINAIR0050PN40	50mm Erhard Twin Air Valve PN40 Flanged	DN50	PN40
TWINAIR0080PN40	80mm Erhard Twin Air Valve PN40 Flanged	DN80	PN40
TWINAIR0100PN40	100mm Erhard Twin Air Valve PN40 Flanged	DN100	PN40
TWINAIR0150PN40	150mm Erhard Twin Air Valve PN40 Flanged	DN150	PN40
TWINAIR0200PN40	200mm Erhard Twin Air Valve PN40 Flanged	DN200	PN40

Air Valves

Single Orifice

Single orifice air valve are used for elimination of air pockets in pipelines. This valve is suitable for drinking water networks, fire protections networks and irrigation networks.

FEATURES

- Isolating 1/4 turn ball valve included, with 17 x 17 lockable square cap.
- Built-in operation controlle
- Ductile iron construction.
- Powder epoxy and cataphoresis coating.
- Stainless steel bolts.
- Minimum pressure: 0.1 bar.
- Temperature limits: +1 °C to +70 °C.
- Range:
  - Type 102, PN 16 and 25: DN 40 to 80 and model 1" male BSP
  - Type 150, PN 25 and 40: DN 50 to 80 and model 1" male BSP
- Maximal working pressure: PN 16, 25, and 40.

STANDARDS

- In conformity with EN 1074 - 4 standard.
- Fully tested manufacturing according to standard ISO 5208-2.
- Flange drilling according to standards EN 1092-2 and ISO 7005 - 2:
  - ISO PN 10/16 for DN 40 to 80
  - ISO PN 25 for DN 50 to 80
  - ISO PN 40 for DN 50 to 80
- "BSP" profile thread according to standards ISO 228 - 1 and NF E 03 - 005.

Bayard Single Orifice Air Valve, F110, PN16

PART NUMBER	DESCRIPTION	DN mm	PN
AIRVALVE/039822	1" BSP Bayard Single Orifice Air Valve, F110, PN16	1" BSP	PN16
AIRVALVE/039823	40mm - 65mm Bayard Single Orifice Air Valve, F110, PN16	DN40 - 65	PN16
AIRVALVE/039852	80mm Bayard Single Orifice Air Valve, F110, PN16	DN80	PN16

Air Valves

Vannair

The Vannair provides three functions, high flow rate air discharge capacity for pipe-filling operation, high flow rate air inlet for pipe drainage operation and in case of pipe burst along with continuous evacuation of air under normal working conditions (small orifice function). This valve is suitable for drinking water networks, fire protection networks and irrigation networks.

FEATURES

- Ductile iron design.
- Patented reversible floating disc for closing under water or air flow conditions (type V1000 and V2000 only).
- Powder epoxy and cataphoresis coating,
- Available with or without built in clockwise closing isolation valve

  Version with isolating valve: 1/4 turn ball valve, with 19x19 lockable square cap on type V200,

  Multi turns straight mounting valve, with 30x30 square cap on types V500 and V1000.
- Ball basket in stainless steel.
- Lateral body boss which can be drilled on request to enable the mounting of pressure gauges.
- Performance:
  - High aeraulic performances.
  - Smooth operation provided by the floating disk.
  - Minimum pressure 0,3 bar.
- Easy to operate and install:
  - Reduced space requirements.
  - Built-in operation controller.
- Maximal working pressure: PN 16, 25, 40.
- Temperature limits: +0°C to +60°C.

STANDARDS

- Manufacturing fully tested according to ISO 5208-2.
- According to standard EN 1074-4.
- Seating: class A according to standard ISO 5208-2,
- Flange drilling according to standards EN 1092-2 and ISO 7005-2:
  - ISO PN 10/16 for DN 40 to 150,
  - ISO PN 10 or 16 for DN 200,
  - ISO PN 25 or 40 for DN 40 to 200,

OPTIONS

- Options, on request:
  - Type V200 and V500 with closing under air flow conditions.
  - Reinforced coating.
  - Low pressure kit.
  - Piped outlet.

Bayard Vannair, F120, PN16, V200 - No Stopcock (SRA)

PART NUMBER	DESCRIPTION	DN mm	PN
AIRVALVE/041750	40mm Bayard Vannair, F120, PN16, V200 - No Stopcock (SRA)	DN40	PN16
AIRVALVE/041760	50mm Bayard Vannair, F120, PN16, V200 - No Stopcock (SRA)	DN50	PN16
AIRVALVE/041770	65mm Bayard Vannair, F120, PN16, V200 - No Stopcock (SRA)	DN65	PN16
AIRVALVE/041780	80mm Bayard Vannair, F120, PN16, V200 - No Stopcock (SRA)	DN80	PN16
AIRVALVE/041790	100mm Bayard Vannair, F120, PN16, V200 - No Stopcock (SRA)	DN100	PN16

Bayard Vannair, F120, PN16, V500 to V2000 - No Isolation Valve (SRA)

PART NUMBER	DESCRIPTION	DN mm	PN
AIRVALVE/041850	80mmBayard Vannair, F120, PN16, V500 to V2000 - No Isolation Valve (SRA)	DN80	PN16
AIRVALVE/041860	100mmBayard Vannair, F120, PN16, V500 to V2000 - No Isolation Valve (SRA)	DN100	PN16
AIRVALVE/041900	150mmBayard Vannair, F120, PN16, V500 to V2000 - No Isolation Valve (SRA)	DN150	PN16
AIRVALVE/041960	200mmBayard Vannair, F120, PN16, V500 to V2000 - No Isolation Valve (SRA)	DN200	PN16

Bayard Vannair, F120, PN16, V200 - ARA - Stopcock

PART NUMBER	DESCRIPTION	DN mm	PN
AIRVALVE/041800	40mm Bayard Vannair, F120, PN16, V200 - ARA - Stopcock	DN40	PN16
AIRVALVE/041810	50mm Bayard Vannair, F120, PN16, V200 - ARA - Stopcock	DN50	PN16
AIRVALVE/041820	65mm Bayard Vannair, F120, PN16, V200 - ARA - Stopcock	DN65	PN16
AIRVALVE/041830	80mm Bayard Vannair, F120, PN16, V200 - ARA - Stopcock	DN80	PN16
AIRVALVE/041840	100mm Bayard Vannair, F120, PN16, V200 - ARA - Stopcock	DN100	PN16

Bayard Vannair, F120, PN16, V500 to V1000 - ARA - Isolation Valve

PART NUMBER	DESCRIPTION	DN mm	PN
AIRVALVE/041880	80mm Bayard Vannair, F120, PN16, V500 to V1000 - ARA - Isolation Valve	DN80	PN16
AIRVALVE/041890	100mm Bayard Vannair, F120, PN16, V500 to V1000 - ARA - Isolation Valve	DN100	PN16
AIRVALVE/041965	200mm Bayard Vannair, F120, PN16, V500 to V1000 - ARA - Isolation Valve	DN200	PN16

Air Valves
Avuse

AVUSE-1 - single function

Single orifice air valve allowing efficient and automatic release of air pockets present in the network, especially at high points of the sewage pipelines.

AVUSE-3 - three functions

Double orifice air valve to secure sewage networks, providing three functions: high flow rate air discharge and air. It is typically used for wastewater, rain water and industrial waste water (please consult us).

FEATURES

- Body, bonnet and flange in polymeric material: easy handling thanks to the lightness of the product.
- Guiding stem and seal holder in stainless steel.
- Mechanical parts and sealing system protected from the fluid by a large air gap, to prevent from any fouling up, for long lasting performances.
- Easy maintenance thanks to quick removal of the clamps.
- Drainage cock included.
- Compact, reduced space requirements.
- Minimum pressure: 1mWC.
- Connection by flange DN50 or multi-drilling DN 60/65/80, ISO PN 10/16
- Maximal working pressure 10 bar in standard, 16 bar on request.
- Optional funnelled outlet (double socket elbow).
- Temperature limits: +1°C to +70°C.

STANDARDS

- WRAS approved model on request

OPTIONS

- Ductile iron made
- Altitude setting
- Bottom installation kit
- PN 16

Avuse Sewage Air Valves

PART NUMBER	DESCRIPTION	DN mm	PN
AVUSE307800	50mm Avuse Single Function Sewage Air Valve	50	PN16
AVUSE307810	60mm / 65mm / 80mm Avuse Single Function Sewage Air Valve	60/65/80	PN16
AVUSE307700	50mm Avuse Triple Function Sewage Air Valve	50	PN16
AVUSE307710	60mm / 65mm / 80mm Avuse Triple Function Sewage Air Valve	60/65/80	PN16

Float Valves

Balanced float valve with diaphragm

Our float valves are used for control of top water level in reservoirs and storage rage tanks. Our float ball valves can be found in a variety of drinking water networks, fire protection, irrigation and high rise buildings.

FEATURES

Performances:

- Balanced type valve
- Progressive operation without friction
- Low head low

Design:

- Compactness
- 316 L stainless steel float
- Fully Epoxy coated
- No adjustment required
- Maintenance free
- Range: DN 40 to 250
- Max working pressure: 10 bar
- Max working temperature: +1° to 65 C°

STANDARDS

- WRAS approved model on request

OPTIONS

- Ductile iron made
- Altitude setting
- Bottom installation kit
- PN 16

Equilibrium Float Valves

The range of EBCO high flow rate Float Valves are simple and robust and can reliably self-compensate for changes in water supply pressures. One size of seat and one size of ball float will suit any working pressure up to the maximum recommendation of 10bar (150psi) for the reduced bore float valve or 5bar (72psi) for the full bore float valve. Even at these pressures the full bore or reduced bore seat combined with the hydraulically balanced closing action gives fast, quiet and smooth shut-off.

FEATURES

- Body of the valve i smade from corrosion immune gunmetal giving years of trouble free service
- Design and selection of materials gives high strength for installation and operation, and corrosion resistance for long life
- One size of seat and one size of ball float suits any working pressure up to the maximum recomended of 5 bar (72psi) for the full bore value or 10 bar (150psi) for the reduced bore valve

STANDARDS

- WRAS approved

OPTIONS

- Available in full bore or reduced bore
- Available in flanged or male BSP threaded connections

Range - Mark 1 Equilibrium Float Valve - Full Bore Seat

Size	**½"****	**¾" ***	**1"***	**1 ¼"***	**1 ½"***	**2"***	**2 ½"***	**3"***	**4"***
Float Valve internal bore	½"	¾"	1"	1 ¼"	1 ½"	2"	2 ½"	3"	4"
Recommended diameter of ball float	4 ½"	5 ½"	6"	7"	8"	12"	14"	15"	16"
Method of lever/float valve attachment	Stud	Stud	Stud	Stud	Stud	Stud	Claw	Claw	Claw
Thread size of lever to stud/claw attachment	5/16	3/8,	3/8,	7/16	½"	9/16	¾"	¾"	7/8"
Length from inlet flange to end of ball	17"	22"	25"	27"	30"	36"	39"	42"	47"
Length of lever arm	10"	13"	16"	17"	18"	19"	20"	21"	23"
Length of screwed inlet (BSP threaded version only)	1 ¼"	1 ½"	1 ½"	2"	2 ¼"	2 ½"	3"	3 ½"	4"
Centre line of valve to bottom outlet	1 1/8"	1 ½"	1 5/8"	2 ¼"	2 9/16"	3"	3 ¼"	3 ¾" & 4 ½"***	4 ¾"

The Mark 1 Equilibrium float valve is available in sizes ½" to 4" and is primarily designed for use at pressures of up to 5 bar (72psi)
* Available with BSP threaded inlets or flanged inlets
**Only available with BSP threaded inlets
*** MK1 4 ½" for NP16 and ASA125 Flanged

Range - Mark 2 Equilibrium Float Valve - Reduced Bore

Size	**¾"****	**1"****	**1 ¼"****	**1 ½"****	**2" ****	**2 ½"****	**3"***	**4"***	**6"***
Float Valve internal bore	½"	¾"	1"	1 ¼"	1 ½"	2"	2 ½"	3"	4"
Recommended diameter of ball float	4 ½"	5 ½"	6"	7"	8"	12"	14"	15"	16"
Method of lever/float valve attachment	Stud	Stud	Stud	Stud	Stud	Stud	Claw	Claw	Claw
Thread size of lever to stud/claw attachment	5/16"	3/8"	3/8"	7/16"	½"	9/16"	¾"	¾"	7/8"
Length from inlet flange to end of ball	17"	22"	25"	27"	30"	36"	39"	42"	47"
Length of lever arm	10"	13"	16"	17"	18"	19"	20"	21"	23"
Length of screwed inlet (BSP threaded version only)	1 ½"	1 ½"	2"	2 ¼"	2 ½"	3"	3 ½"	4"	5"
Centre line of valve to bottom outlet	1 ¼"	1 5/8"	2"	2 ¼"	2 ½"	3"	3 ¼" & 3 ¾"***	3 ¾"	4 ¾"

The Mark 2 Equilibrium float valve is available in sizes ¾" to 6" and is primarily designed for use at pressures of up to 10 bar (150psi)
* Available with BSP threaded inlets or flanged inlets
**Only available with BSP threaded inlets
*** MK2 3 ¾" for NP16 and Table E Flanged

Sediments Strainers

Strainer Box "MP type"

Strainer box is accessible from the top with low headloss.Its compact design, and its lateral drain plugs allow installation of a drainage valve (upon request). This valve allows for maintenance without interrupting the water distribution supply. The strainer box also has anticorrosive epoxy powder coating. This valve is widely used in drinking water and irrigation networks.

FEATURES

- Compact design.
- Lateral drain plugs allowing installation of a drainage valve (optional) for maintenance without interrupting the water distribution supply.
- Reliability:
  - Body and bonnet in ductile iron.
  - The inclined position of the screen reduces clogging.
  - Low headloss thanks to an important filtering section.
  - Resistant screen holder in ductile iron.
- Anticorrosion protection:
  - Powder epoxy coating,
  - Stainless steel screen.
- Easy dismantling of the bonnet and the screen from the top.
- Maximum working pressure 25 bar.
- Maximum differential pressure 16 bar.
- Flange drilling according to EN 1092-2 and ISO 7005-2: ISO PN10, 16 or 25.
- Temperatures: +1.C to +70.C
- Standard mesh: 2 mm (optional: 0,5 or 1mm, 8x8 mm).
- Range: DN 40 to 250.

Hydrants

Fire Hydrant

The fire hydrant has a working pressure of 16 bar along with a working temperature of -10 °C to 70 °C. The fire hydrant complies with BS750 along with an inlet flange universally drilled to BS EN 1092-2 PN 10/16 and BS 10 Table D/E. The hydrant has corrosion protection with fusion bonded epoxy coated to the interior and exterior minimum 300 micrometers.

PART NUMBER	**DESCRIPTION**	**DN mm**	**PN**
HYD750/080/BAY	80mm Hydrant To BS750 DI PN16, Bayonet Lug, Complete With Frost Plug	DN80	PN 16
HYD750/080/FS	80mm Hydrant To BS750, DI, GM Outlet, Fixed Stopper, Complete with Frost Plug	DN80	PN 16
HYD750/080/FS/SS	80mm Hydrant To BS750 DI PN16, SS Outlet, Fixed Stpopper, Complete with Frost Plug	DN80	PN 16
HYD750/080/LS	80mm Hydrant to BS750, GM Outlet, Loose Stopper, Complete with Frost Plug	DN80	PN 16
HYD750/080/TB/SS	80mm Hydrant To BS750 DI PN16, SS Outlet, Through Bore	DN80	PN 16

Hydrants

Pillar fire hydrants with hood

Non-freezing pillar fire hydrant with protection hood, for the connection above ground of the mobile equipment of fire protection services. Used for potable water and raw water.This hydrant comes in DN 65-80-100-150 and PN 16.

FEATURES

- Various outlets standards
- Adjustable height option
- 360° orientation after installation
- Automatic drainage
- Various earth covers
- Duck foot bend or straight inlet
- Traffic type version
- Double closure option
- Low operating torque
- Bubble tight shut-off
- Non-freezing type
- Traffic type, avoiding leakage in case of impact
- Anti-Water hammer and anti vibrations main valve guide, enabling progressive opening/closing
- Anticorrosion protection by internal and external epoxy coating
- Easy dismantling of the main valve for maintenance

STANDARDS

EN, NF, DIN, ANSI, BS, UNI, UNE

Fountains and hydrants

This hydrant allows for free access to water in public areas. Used for potable and raw water. This hydrant comes in DN 20-25 (fountains) and DN 40-80 (hydrants) with PN10.

FEATURES

- Fountains for individual use, hydrants for professional use
- Self closing fountains
- Hood protected hydrants
- Hydrants with built in anti-pollution check valve and incorporated water meter
- Traffic type version (DN 80 hydrant)

Moneca

This hydrant allows for controlled access and automatic water delivery with dedicated smart valve. Used for potable water and raw water. This hydrant comes in DN 25- 80 and PN 6.

FEATURES

- Access control by smart card
- Battery powered
- Built in antipollution check valve
- Automatic drainage (DN 80)
- PC connection
- Accessories: smart card loading software, smart card loading machine
- Operating temerature -5°C to 70°C
- Smart pre-paid card or postpaid card, rechargeable
- Equipped with a water volume metering system
- Non-freezing
- Non-return valve included
- With strainer
- With flow meter
- Screen display for volume credit, instructions and defaults
- Quick access to components thanks to the front opening
- Hydrants are supplied with 20 user cards and one maintenance card

Penstocks

WAGU ® Penstocks

WAGU penstocks without housing are used as isolating and regulation devices in the fields of sewage and waste engineering. They are field-proven for isolating and regulating open channels, inlets and outlets of canals, sewers, pits, basins and pipelines.

WAGU penstocks are used for flow control, for maintaining the sewage level, for flow limitation, distribution of channel flow and ensure recirculation. The specialised designs along with a variety of materials provide the customer with a wide range of WAGU® penstocks to choose from for nearly all requirements in the field of sewage engineering.

FEATURES

- Welded design based on modular concept allowing for lower cost and the ability for any dimensions
- Standardised sealing profiles ensure permanent sealing properties, low ware and easy replacement therefore benefits can include longer life, reliability and little maintenence. Low operation forces required
- Alternative 4-facing isolating devices available also in reinforced design. Benefits can include increased working pressures up to 2 bar and higher gauge working pressures on request
- Ideal material combinations suited for every type of application:- Hot dipped zinc coated steel, stainless steel and aluminium alloy.
- Available from DN150 mm to 3000 mm
- PN0.4-2 bar
- Materials: Body: Stainless steel, galvanized steel, NBR
- Coating: Fusion bonded blue epoxy powder, vitreous enamel
- Media: Sewage, salt water

OPTIONS

- Available in different materials such as hot dipped zinc coated steel, stainless steel as well as aluminium alloys.
- Operation types: Handwheel, square cap, gearbox, pneumatic or electric actuator
- End configuration: Grout in, wall bolting
- Many design variants and attachment options - existing plants can be upgrated to WAGU ® standard at any time without modification of the buildings

STANDARDS

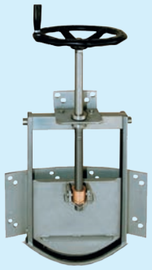
- DIN

Penstocks

WAGU valves for every type of water flow

WAGU ® gate valves and sluices are penstocks used for isolating and regulating open channels, inlets and outlets of canals, sewers, pits, basins and pipelines. Thanks to the wide variety of versions and specific material, WAGU ® valves are ideally suited for use in sewage engineering, the water industry and flood protection.

- Modular component assembly for universal accommodation of all operating gear options and for individual designs and sizes
- Customised material selection: stainless steel, aluminium alloys and hot-dip zinc-coated steel as well as special materials on request
- Tried and tested sealing principle with clamped lip and invert seal
- 3 or 4-facing seals in both directions of flow
- Plate guided by lateral slider strips or sliding curves in the frame, non- abrasive guides, low actuating forces
- Maintenance-friendly due to clamped or bolted sealing profile
- Easy installation due to wall sealing without grouting and variable fastening claws or fixing brackets
- Reduced recess dimensions, therefore low structural costs

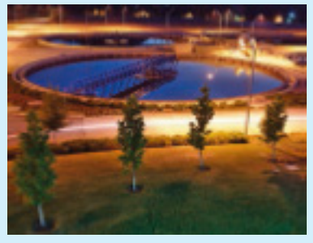


The WAGU range includes numerous variations, such as:

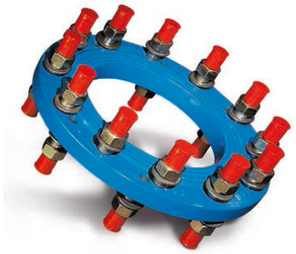
- ERHARD WAGU CL- DN 150-1200, working pressure up to 0.4 bar, for wall bolting, also available as special version for Round sewers from diameter DN 1000
- ERHARD WAGU PRO- DN 150-1200, working pressure up to 0.6 bar, for wall bolting or grouting or as a flange type, adapters available for Round sewers
- ERHARD WAGU GK- DN 150-3000, special sizes possible, up to 2 bar working pressure, for wall bolting, grouting or as flange type, adapters available for Round sewers, also suitable for drinking water

WAGU®- Sewage Engineering – for a clean environment

WAGU valves in use worldwide. Whether at Munich Airport or La Florida water-works in South America – WAGU valves from ERHARD are ideally suited for use in sewage engineering, water industry and flood protection.



Flange Converters Type XR



Flange Converter: Type XR

- For the reductions with short construction length. The XR-Flanges save costs, the assembling is easy and practical, so they economise time.
- Material: Ductile cast iron according to DIN EN 545 (DIN 28 600)
- As standard: Fusion bonded epoxy coating by fluidized bed in accordance with GSK RAL-GZ 662 (250 µm) up to 400. Bigger sizes spraied epoxy coating. Threaded bolts (DIN 939) are zinc coated. Delivery with washer, nuts and protection caps. Other bolt length on request
- There are two types of Frischhut XR-fittings:
- Type A: Threaded bolts on both sides
- Type B: for greater steps of the nominal diameter. In the bigger diameter are screw drill holes, in the smaller diameter are threaded bolts
- Studded reducer flange: With the studded reducer flange
- Type XR it is possible to make reductions with big steps of the nominal diameter within very short lengths. This is very important if the standard FFR fittings are not useful
- Studded adapter flange: To make adaptations from flanges
- DIN EN 1092-2 to BS 10 or to make adaptations from flanges of PN 10 to PN 16. Please indicate the pressure stage for both sides of the flange, if it is higher than PN 10

Studded reducer flange XR 200/200 12/8 (PN 16/PN 10) Type A

Studded reducer flange 200/80 Type B

Flanged Converters

PART NUMBER	DESCRIPTION	DN mm	PN
FC50PN162BSE	50mm PN16 to 2" Table E Flange Convertor Stainless Steel Bolts	50mm /2"	PN16
FC50PN163BSE	50mm PN16 to 3" Table E Flange Convertor Stainless Steel Bolts	50mm/3"	PN16
FC80PN162BSE	80mm PN16 to 2" Table E Flange Convertor Stainless Steel Bolts	80mm/2"	PN16
FC80PN163BSE	80mm PN16 to 3" Table E Flange Convertor Stainless Steel Bolts	80mm/3"	PN16
FC80PN164BSE	80mm PN16 to 4" Table E Flange Convertor Stainless Steel Bolts	80mm/4"	PN16
FC80PN1650PN16	80mm PN16 to 50mm PN16 Flange Convertor Stainless Steel Bolts	80mm/50mm	PN16
FC100PN1650PN16	100mm PN16 to 50mm PN16 Flange Convertor Stainless Steel Bolts	100mm/50mm	PN16
FC100PN163BSE	100mm PN16 to 3" Table E Flange Convertor Stainless Steel Bolts	100mm/3"	PN16
FC100PN164BSE	100mm PN16 to 4" Table E Flange Convertor Stainless Steel Bolts	100mm/4"	PN16
FC100PN165BSE	100mm PN16 to 5" Table E Flange Convertor Stainless Steel Bolts	100mm/5"	PN16
FC100PN1680PN16	100mm PN16 to 80mm PN16 Flange Convertor Stainless Steel Bolts	100mm/80mm	PN16
FC150PN16100PN16	150mm PN16 to 100mm PN16 Flange Convertor Stainless Steel Bolts	150mm/100mm	PN16
FC150PN165BSE	150mm PN16 to 5" Table E Flange Convertor Stainless Steel Bolts	150mm/5"	PN16
FC150PN166BSE	150mm PN16 to 6" Table E Flange Convertor Stainless Steel Bolts	150mm/6"	PN16
FC150PN1680PN16	150mm PN16 to 80mm PN16 Flange Convertor Stainless Steel Bolts	150mm/80mm	PN16
FC200PN16150PN16	200mm PN16 to 150mm PN16 Flange Convertor Stainless Steel Bolts	200mm/150mm	PN16
FC200PN168BSE	200mm PN16 to 8" Table E Flange Convertor Stainless Steel Bolts	200mm/8"	PN16
FC200PN1680PN16	200mm PN16 to 80mm PN16 Flange Convertor Stainless Steel Bolts	200mm/80mm	PN16
FC200PN169BSE	200mm PN16 to 9" Table E Flange Convertor Stainless Steel Bolts	200mm/9"	PN16
FC250PN1610BSE	250mm PN16 to 10" Table E Flange Convertor Stainless Steel Bolts	250mm/10"	PN16
FC250PN16150PN16	250mm PN16 to 150mm PN16 Flange Convertor Stainless Steel Bolts	250mm/150mm	PN16
FC250PN16200PN16	250mm PN16 to 200mm PN16 Flange Convertor Stainless Steel Bolts	250mm/200	PN16
FC300PN1612BSE	300mm PN16 to 12" Table E Flange Convertor Stainless Steel Bolts	300mm12"	PN16

Dismantling Joints, Essential for straight forward and secure installation:

Dismantling joints play a decisive role in the design and layout of pipelines and valves. They are an essential aid during the installation and removal of pipe sections and valves. Without a dismantling joint offering longitudinal adjustment, it is almost impossible to insert a valve exactly into a pipe section. Thanks to this adjustability of the dismantling joint, the valve can be fitted next to the dismantling joint, and the dismantling joint can be to set to the exact length required prior to being securely connected to flanges

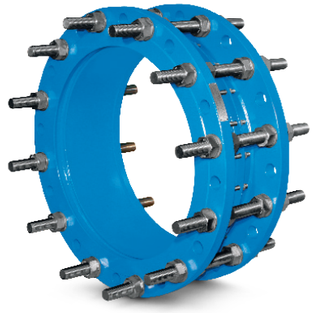
The reverse sequence is used for dismantling, where readjustment of the length of the dismantling joint creates enough space to loosen and remove the valve. In both cases, the dismantling joint guarantees fast installation and removal, thus contributing to increased efficiency and reducing site operations and down time.

Benefits of using dismantling joints:

- Eases installation and dismounting of pumps, butterfly valves, gate valves in pipelines.
- Less precise tolerances of pipe components because of the possible adjustment offered by the dismantling joint.
- Simplifies future pipework modifications and reduces downtime when changes have to be made.

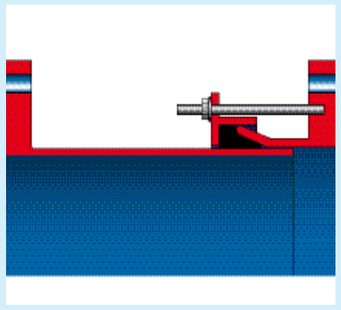
UNIJOINT PAS10

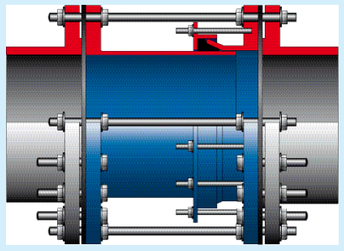
The UNIJOINT PAS10 is equipped with two flanges and one follower end-ring. This design offers optimal gasket control with the separate stud bolts applying pressure to the gasket independently of the tie-rods making the flange connections. This allows a reduction in the number of tie-rods required as their function is restraining only. The UNIJOINT PAS10 comes equipped with 25 % tie-rods for PN 10 and PN 16 and 50 % tie-rods for PN 25 and PN 40 applications.

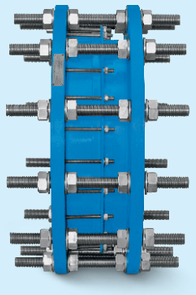


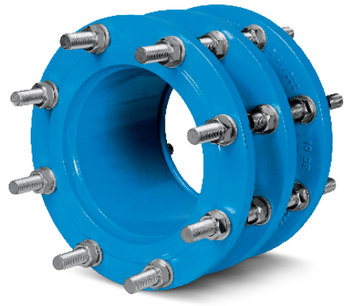
The UNIJOINT PAS10 also makes an unrestrained set-up possible. Here no threaded tie-rods are used allowing the dismantling joint to act as a limited expansion joint absorbing noises and vibrations in the pipeline. This variant requires a fixed point in the pipeline. Anchoring is required if the pipe end can be pulled out of the dismantling joint

Both versions of the UNIJOINT PAS10 are available in the pressure ratings PN 10, PN 16, PN 25 & PN 40 and in nominal sizes of DN 50 to DN 1600, with a standard longitudinal adjustment of ± 25 mm. Connection flanges to any standard are available upon customer request. Larger nominal sizes, higher pressure ratings and non-standard build lengths are also available on request.





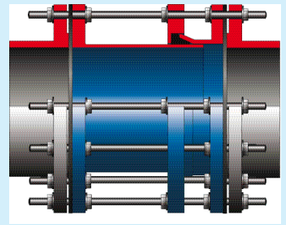


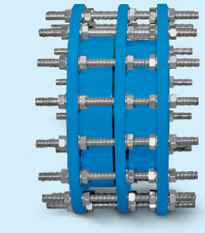


UNIJOINT PAS20

Equipped with three flanges, the UNIJOINT PAS20 is the perfect solution for all standard and non-standard applications. It is easy to install and remove thanks to the standard longitudinal adjustability of ± 25 mm and thus offers perfect support during the installation and removal of valves. The UNIJOINT PAS20 has connection flanges with the same dimensions at both ends and is lockable.

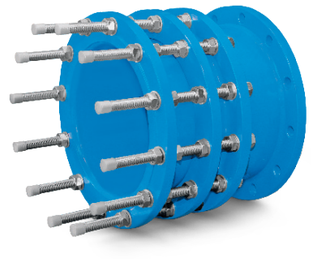
The UNIJOINT PAS20 dismantling joint with 100% continuous threaded tie-rods ensures complete restraint and a leakfree operation. The UNIJOINT PAS20 is available in standard nominal sizes (see dimensions and weights table) and larger sizes and higher pressure ratings up to 100 bar are always possible depending on customer requirements.





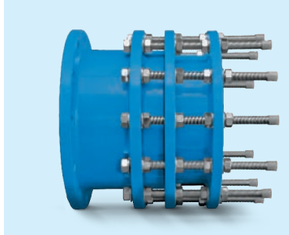
UNIJOINT PAS30

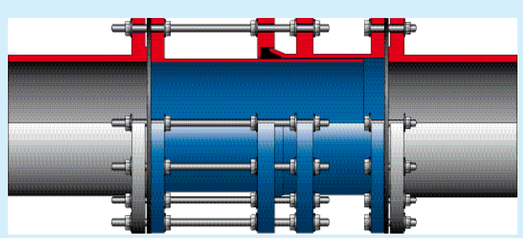
The UNIJOINT PAS30 with four flanges and 100% tie-rods is the ultimate solution for challenging installations. The additional flange results in an increased construction length which makes it possible to slide the threaded tie-rod between end flanges during installation and removal. The UNIJOINT PAS30 is also suitable in situations where the overall space only just corresponds to the construction length. This allows sideways insertion making the UNIJOINT PAS30 ideal for cases where the connection flanges are fixed e.g. where pipes protrude out of the wall.



The additional flange also makes a time-saving preliminary installation of valves possible. The valve and dismantling joint can be fitted together in the pipeline assembly which are then fitted and clamped together (and removed again) together with the dismantling joint. A further advantage is the continuous threaded tie-rods on one side which makes it possible to remove the valve only.

The UNIJOINT PAS30 can be locked at the required length with adjustability of ± 25 mm when installed in pipelines. Connection flanges can also be delivered according to different standards.





UNIJOINT Dismantling Joints

PN	DN	Nominal length (mm)	Adjustability +/- (mm)	Tie-rods (number x diameter x length mm)	Weight (kg)
UNIJOINT PAS10, 25% tie-rods					
10	50	180	20	2 x M16 x 280	8
	65	180	20	2 x M16 x 280	10
	80	200	20	2 x M16 x 310	13
	100	200	20	2 x M16 x 310	15
	125	200	20	2 x M16 x 310	18
	150	200	20	2 x M20 x 340	22
	200	220	25	4 x M20 x 340	32
	250	220	25	4 x M20 x 360	39
	300	220	25	4 x M20 x 360	45
	350	230	25	4 x M20 x 360	67
	400	230	25	4 x M24 x 370	81
	450	250	25	5 x M24 x 390	91
	500	260	25	5 x M24 x 390	103
	600	260	25	5 x M27 x 410	127
	700	260	25	6 x M27 x 410	160
	800	290	25	6 x M30 x 460	217
	900	290	25	7 x M30 x 460	241
	1000	290	25	7 x M33 x 480	277
	1100	300	25	8 x M33 x 480	310
	1200	320	25	8 x M36 x 520	413
	1400	325	25	9 x M39 x 540	548
	1500	325	25	9 x M39 x 540	604
	1600	350	25	10 x M45 x 585	738
16	50	180	20	2 x M16 x 280	8
	65	180	20	2 x M16 x 280	10
	80	200	20	2 x M16 x 310	13
	100	200	20	2 x M16 x 310	15
	125	200	20	2 x M16 x 310	18
	150	200	20	2 x M20 x 340	22
	200	220	25	4 x M20 x 340	31
	250	230	25	4 x M24 x 370	43
	300	250	25	4 x M24 x 410	53
	350	260	25	4 x M24 x 410	78
	400	270	25	4 x M27 x 430	96
	450	270	25	5 x M27 x 430	111
	500	280	25	5 x M30 x 460	142
	600	300	25	5 x M33 x 480	189
	700	300	25	6 x M33 x 480	199
	800	320	25	6 x M36 x 520	262
	900	320	25	7 x M36 x 520	301
	1000	325	25	7 x M39 x 550	374
	1100	325	25	8 x M39 x 550	405
	1200	325	25	8 x M45 x 575	515
	1400	350	25	9 x M45 x 620	674
	1500	390	25	9 x M52 x 675	847
	1600	390	25	10 x M52 x 675	948
UNIJOINT PAS10, 50% tie-rods					
25	50	200	20	2 x M16 x 310	9
	65	200	25	4 x M16 x 310	12
	80	210	20	4 x M16 x 330	13
	100	220	25	4 x M20 x 340	19
	125	220	25	4 x M24 x 370	26
	150	230	25	4 x M24 x 370	29
	200	230	25	6 x M24 x 370	42
	250	250	25	6 x M27 x 410	58
	300	250	25	8 x M27 x 410	78
	350	270	25	8 x M30 x 440	113
	400	280	25	8 x M33 x 480	140
	450	280	25	10 x M33 x 480	158
	500	300	25	10 x M33 x 480	175
	600	320	25	10 x M36 x 520	252
	700	325	25	12 x M39 x 550	317
	800	325	25	12 x M45 x 575	429
	900	340	25	14 x M45 x 585	537
UNIJOINT PAS10, 50% tie-rods					
40	50	200	20	2 x M16 x 310	9
	65	200	25	4 x M16 x 310	12
	80	210	20	4 x M16 x 330	13
	100	220	25	4 x M20 x 340	19
	125	220	25	4 x M24 x 370	26
	150	230	25	4 x M24 x 370	29
	200	240	25	6 x M27 x 410	50
	250	260	25	6 x M30 x 440	80
	300	280	25	8 x M30 x 460	110
	350	290	25	8 x M33 x 480	134
	400	320	25	8 x M36 x 540	201
	450	320	25	10 x M36 x 540	213
	500	325	25	10 x M39 x 590	278
UNIJOINT PAS20					
10	50	180	20	4 x M16 x 280	11
	65	180	20	4 x M16 x 280	15
	80	200	20	8 x M16 x 310	17
	100	200	20	8 x M16 x 310	19
	125	200	20	8 x M16 x 310	23
	150	200	20	8 x M20 x 340	30
	200	220	25	8 x M20 x 340	40
	250	220	25	12 x M20 x 360	54
	300	220	25	12 x M20 x 360	62
	350	230	25	16 x M20 x 360	89
	400	230	25	16 x M24 x 370	113
	450	250	25	20 x M24 x 390	132
	500	260	25	20 x M24 x 390	146
	600	260	25	20 x M27 x 410	184
	700	260	25	24 x M27 x 410	226
	800	290	25	24 x M30 x 460	308
	900	290	25	28 x M30 x 460	350
	1000	290	25	28 x M33 x 480	419
	1100	300	25	32 x M33 x 480	473
	1200	320	25	32 x M36 x 520	632
	1400	325	25	36 x M39 x 540	836
	1500	325	25	36 x M39 x 540	899
	1600	350	25	40 x M45 x 585	1248
16	50	180	20	4 x M16 x 280	11
	65	180	20	4 x M16 x 280	15
	80	200	20	8 x M16 x 310	17
	100	200	20	8 x M16 x 310	19
	125	200	20	8 x M16 x 310	23
	150	200	20	8 x M20 x 340	30
	200	220	25	12 x M20 x 340	44
	250	230	25	12 x M24 x 370	63
	300	250	25	12 x M24 x 410	76
	350	260	25	16 x M24 x 410	107
	400	270	25	16 x M27 x 430	137
	450	270	25	20 x M27 x 430	163
	500	280	25	20 x M30 x 460	212
	600	300	25	20 x M33 x 480	288
	700	300	25	24 x M33 x 480	302
	800	320	25	24 x M36 x 520	399
	900	320	25	28 x M36 x 520	463
	1000	325	25	28 x M39 x 550	600
	1100	325	25	32 x M39 x 550	659
	1200	325	25	32 x M45 x 575	908
	1400	350	25	36 x M45 x 620	1114
	1500	390	25	36 x M52 x 675	1476
	1600	390	25	40 x M52 x 675	1671
25	50	200	20	4 x M16 x 310	11
	65	200	25	8 x M16 x 310	16
	80	210	20	8 x M16 x 330	17
	100	220	25	8 x M20 x 340	26
	125	220	25	8 x M24 x 370	37
	150	230	25	8 x M24 x 370	40
	200	230	25	12 x M24 x 370	60
	250	250	25	12 x M27 x 410	82
	300	250	25	16 x M27 x 410	108
	350	270	25	16 x M30 x 460	158
	400	280	25	16 x M33 x 480	199
	450	280	25	20 x M33 x 480	227
	500	300	25	20 x M33 x 480	249
	600	320	25	20 x M36 x 520	348
	700	340	25	24 x M39 x 550	452
	800	360	25	24 x M45 x 600	629
	900	380	25	28 x M45 x 640	786
40	50	200	20	4 x M16 x 310	11
	65	200	25	8 x M16 x 310	16
	80	210	20	8 x M16 x 330	17
	100	220	25	8 x M20 x 340	26
	125	220	25	8 x M24 x 370	37
	150	230	25	8 x M24 x 370	40
	200	240	25	12 x M27 x 410	79
	250	260	25	12 x M30 x 440	114
	300	280	25	16 x M30 x 460	155
	350	290	25	16 x M33 x 480	193
	400	340	25	16 x M36 x 540	288
	450	340	25	20 x M36 x 540	307
	500	380	25	20 x M39 x 600	408
UNIJOINT PAS30					
10	50	300	25	4 x M16 x 250	15
	65	300	25	4 x M16 x 250	17
	80	300	25	8 x M16 x 250	20
	100	300	25	8 x M16 x 250	26
	125	300	25	8 x M16 x 250	31
	150	350	25	8 x M20 x 290	41
	200	350	25	8 x M20 x 290	56
	250	350	25	12 x M20 x 290	73
	300	350	25	12 x M20 x 290	84
	350	350	25	16 x M20 x 290	114
	400	375	25	16 x M24 x 320	148
	450	375	25	20 x M24 x 320	169
	500	375	25	20 x M24 x 320	187
	600	400	25	20 x M27 x 340	236
	700	400	25	24 x M27 x 340	289
	800	450	25	24 x M30 x 380	405
	900	450	25	28 x M30 x 380	458
	1000	475	25	28 x M33 x 420	637
	1100	475	25	32 x M33 x 420	719
	1200	525	25	32 x M36 x 450	838
	1400	550	25	36 x M39 x 470	1069
	1500	550	25	36 x M39 x 470	1172
	1600	600	25	40 x M45 x 520	1557
16	50	300	25	4 x M16 x 250	15
	65	300	25	4 x M16 x 250	17
	80	300	25	8 x M16 x 250	20
	100	300	25	8 x M16 x 250	26
	125	300	25	8 x M16 x 250	31
	150	350	25	8 x M20 x 290	41
	200	350	25	8 x M20 x 290	56
	250	350	25	12 x M20 x 290	73
	300	350	25	12 x M20 x 290	84
	350	350	25	16 x M20 x 290	114
	400	375	25	16 x M24 x 320	148
	450	375	25	20 x M24 x 320	169
	500	375	25	20 x M24 x 320	187
	600	400	25	20 x M27 x 340	236
	700	400	25	24 x M27 x 340	289
	800	450	25	24 x M30 x 380	405
	900	450	25	28 x M30 x 380	458
	1000	475	25	28 x M33 x 420	637
	1100	475	25	32 x M33 x 420	719
	1200	525	25	32 x M36 x 450	838
	1400	550	25	36 x M39 x 470	1069
	1500	550	25	36 x M39 x 470	1172
	1600	600	25	40 x M45 x 520	1557
25	50	325	25	4 x M16 x 260	15
	65	325	25	8 x M16 x 260	18
	80	325	25	8 x M16 x 260	21
	100	350	25	8 x M20 x 290	27
	125	375	25	8 x M24 x 320	35
	150	375	25	8 x M24 x 320	50
	200	375	25	12 x M24 x 320	74
	250	425	25	12 x M27 x 350	98
	300	425	25	16 x M27 x 350	130
	350	450	25	16 x M30 x 380	208
	400	500	25	16 x M33 x 420	265
	450	525	25	20 x M33 x 420	273
	500	525	25	20 x M33 x 420	327
	600	550	25	20 x M36 x 450	412
	700	600	25	24 x M39 x 470	546
	800	625	25	24 x M45 x 500	711
	900	625	25	28 x M45 x 500	873
40	50	325	25	4 x M16 x 260	15
	65	325	25	8 x M16 x 260	18
	80	325	25	8 x M16 x 260	21
	100	350	25	8 x M20 x 290	27
	125	375	25	8 x M24 x 320	35
	150	375	25	8 x M24 x 320	50
	200	425	25	12 x M27 x 350	76
	250	450	25	12 x M30 x 380	105
	300	450	25	16 x M30 x 380	150
	350	500	25	16 x M33 x 420	276
	400	550	25	16 x M36 x 450	329
	450	550	25	20 x M36 x 450	341
	500	600	25	20 x M39 x 490	465

Additional nominal sizes or pressure ratings on request

Standard materials & relevant norms

Flange norm/drilling	ISO2531/EN1092 raised face – reduced bore (RF-RB), other norms/drillings, e.g. ANSI Class on request
Body	GGG-50, S235 to EN10025 and/or S275 to EN10025
Gasket	EPDM to EN-681 (WRAS approved)
Bolts, nuts & washers	Hot dip galvanized (stainless steel AIS316-A4 on request)
Tie-rods	Zinc electroplated or hot dip galvanized (stainless steel AIS316-A4 on request)
Coating	Non-toxic fusion bounded epoxy (FBE) powder, Resicoat RT9000 R4 epoxy (blue coloured-RAL 5015), 305 microns (WRAS approved)

Flange Chart

Nominal Size	Table	Diameter		P.C.D		Hole Diameter		Bolt Diameter		No. Bolts
		mm	inch	mm	inch	mm	inch	mm	inch	
DN80/3"	PN10/16	200	7.9	160	6.3	18	0.7	16	0.625	8
	BS10ADE	184	7.25	146	5.75	17	0.67	16	0.625	4
	ANSI125/150	190	7.5	152	6	19	0.75	16	0.625	4
DN100/4"	PN10/16	220	8.67	180	7.1	18	0.7	16	0.625	8
	BS10AD	216	8.5	178	7	17	0.67	16	0.625	4
	BS10E	216	8.5	178	7	17	0.67	16	0.625	8
	ANSI125/150	229	9	191	7.5	19	0.75	16	0.625	8
DN150/6"	PN10/16	285	11.22	240	9.45	22	0.875	20	0.79	8
	BS10A	279	11	235	9.25	17	0.6875	16	0.625	4
	BS10D	279	11	235	9.25	17	0.6875	16	0.625	8
	BS10E	279	11	235	9.25	22	0.875	19	0.75	8
	ANSI125/150	279	11	241	9.5	22	0.875	19	0.75	8
DN200/8"	PN10	340	13.4	295	11.6	22	0.875	20	0.79	8
	PN16	340	13.4	295	11.6	22	0.875	20	0.79	12
	BS10AD	337	13.25	292	11.5	17	0.6875	16	0.625	8
	BS10E	337	13.25	292	11.5	22	0.875	19	0.75	8
	ANSI125/150	343	13.5	298	11.75	22	0.875	19	0.75	8
DN250/10"	PN10	395	15.55	350	13.78	22	0.875	20	0.79	12
	PN16	405	15.95	355	14	26	1.03	24	0.95	12
	BS10AD	406	16	356	14	22	0.875	19	0.75	8
	BS10E	406	16	356	14	22	0.875	19	0.75	12
	ANSI125/150	406	16	362	14.5	25	1	22	0.875	12
DN300/12"	PN10	445	17.5	400	15.75	22	0.875	20	0.79	12
	PN16	460	18.2	410	16.15	26	1.03	24	0.95	12
	BS10A	457	18	406	16	22	0.875	19	0.75	8
	BS10D	457	18	406	16	22	0.875	19	0.75	12
	BS10E	457	18	406	16	25	1	22	0.875	12
	ANSI125/150	483	19	432	17	25	1	22	0.875	12
DN350/14"	PN10	505	19.88	460	18.11	22	0.875	20	0.79	16
	PN16	520	20.47	470	18.50	26	1.03	24	0.95	16
	BS10A	527	20.75	470	18.5	25	1	22	0.875	8
	BS10DE	527	20.75	470	18.5	25	1	22	0.875	12
	ANSI125/150	533	21	476	18.75	29	1.125	25	1	12
DN400/16"	PN10	565	22.24	515	20.28	26	1.03	24	0.95	16
	PN16	580	22.83	525	20.67	30	1.20	27	1.07	16
	BS10ADE	578	22.75	521	20.5	25	1	22	0.875	12
	ANSI125/150	597	23.5	540	21.25	29	1.125	25	1	16
DN450/18"	PN10	615	24.21	565	22.24	26	1.03	24	0.95	20
	PN16	640	25.20	585	23.03	30	1.20	27	1.07	20
	BS10AD	641	25.25	584	23	25	1	22	0.875	12
	BS10E	641	25.25	584	23	25	1	22	0.875	16
	ANSI125/150	635	25	578	22.75	32	1.25	29	1.125	16
DN500/20"	PN10	670	26.38	620	24.41	26	1.03	24	0.95	20
	PN16	715	28.15	650	25.59	33	1.30	30	1.20	20
	BS10A	705	27.75	642	25.25	25	1	22	0.875	12
	BS10DE	705	27.75	642	25.25	25	1	22	0.875	16
	ANSI125/150	698	27.5	635	25	32	1.25	29	1.125	20
DN600/24"	PN10	780	30.71	725	28.54	30	1.20	27	1.07	20
	PN16	840	33.07	770	30.31	36	1.42	33	1.30	20
	BS10A	826	32.5	756	29.75	29	1.125	25	1	12
	BS10D	826	32.5	756	29.75	29	1.125	25	1	16
	BS10E	826	32.5	756	29.75	32	1.25	29	1.125	16
	ANSI125/150	813	32	749	29.5	35	1.375	32	1.25	20

OD Chart

uPVC & Polyethylene	Standard Outside Diameter																	Nominal Bore	
	Metric Asbestos Cement (Turned End)			GRP	Ductile Iron	uPVC		Steel							Imperial Cast Iron & Asbestos Cement (Turned End)					
Metric BS 5556, iso/161/1	Class 25	Class 20	BS 486 1 Class 15		BSEN545 (2002) BSEN598 (1998) BS4772 (1998) DIN28601, 28602, 28603, 28605	BS 3506	BS 3505	API SL & BS1600 (UTI 36" NB)	BS 3600	BS 534	BS 1387	ISO/4200 Series 4	ISO/4200 Series 3	ISO/4200 Series 2	ISO/4200 Series 1	Non-Standard	BS 78 BS 486 1996 Class CD only	BS1211 UTI 27" NB Class AB only	BS 78 1981 Class ABCD	mm	Inch
16						21.3	21.3	21.3	21.3		21.3				21.3					15	0.5
20						26.9	26.9	26.7	26.9		26.9		25.4	25	26.9					20	0.75
25						33.7	33.7	33.4	33.7		33.7	35	30	32	33.7					25	1
32						42.4	42.4	42.4	42.4		42.4		44.5	40	42.4					32	1.25
40					56 DIN 28601	48.3	48.3	48.3	48.3		48.3		54	57	48.3	2.25 57	2.20 55.9	2.20 55.9		40	1.5
50	69				66 DIN 28605	60.3	60.3	60.3	60.3	60.3	60.3			63.5	60.3		2.72 69.1	2.72 69.1		50	2
63					82 DIN 28605	75.1		73	76.1	76.1	76.1		73	70	76.1	3.25 82.5	3.24 82.3	3.24 82.3		60	2.5
75	96				98	88.9	88.9	88.9	88.9	88.9	88.9		82.5		88.9		3.76 95.5	3.76 95.5		80	3
90								101.6	101.6					101.6	101.6					90	3.5
110	122				118	114.3	114.3	114.3	114.3	114.3	114.3		108	127	114.3		4.8 121.9	4.8 121.9		100	4
125					114DIN 28601/3	140.2	140.2	141.3	139.7	139.7	139.7	152.4	141.3	133	139.7		5.9 149.9	5.9 149.9		125	5
140	177		177		170	168.3	168.3	168.3	168.3	168.3	165.1	177.8	159		168.3		6.98 177.3	6.98 177.3		150	6
160						193.7			193.7	193.7			193.7				8.06 204.7	8.06 204.7		175	7
180	240	232	232	220	222	219.1	219.1	219.1	219.1	219.1					219.1		9.14 232.2	9.14 232.2		200	8
200	268	259	259			244.5			244.5	244.5			244.5				10.20 259.1	10.20 259.1		225	9
225	295	286	286	272	274	273	273	273	273	273					273		11.26 286.0	11.26 286.0		250	10
250																				275	11
280	356	345	334	324	326	323.9	323.9	323.9	323.9	323.9					323.9		13.60 345.4	13.14 333.8		300	12
315	419	405	392	376	378	355.6	355.6	355.6	355.6	355.6					355.6		15.72 399.3	15.22 386.6		350	14
355																	16.78 426.2	16.26 413.0		375	15
400	478	463	448	427	429	406.4	406.4	406.4	406.4	406.4					406.4		17.84 453.1	17.30 439.4		400	16
450	532	515	498	478	480 BS ONLY	457	457	457	457	457					457		19.96 506.9	19.38 492.3		450	18
500	605	586	568	530	532	508	508	508	508	508					508		22.06 560.13	21.46 545.1		500	20
560																	23.12 587.2	22.50 571.5		525	21
630						559		559	559	559			559				24.16 613.7	23.54 597.9		550	22
710	691	672	654	633	635	610	610	610	610	610					610		26.26 667.0	25.60 65.2		600	24
800								660	660	660			660				28.36 720.3	27.66 702.6		650	26
900	801	780															29.4 746.8	28.70 728.9		675	27
1000	852	830	761	718	738			711	711	711					711		30.44 773.2	29.72 754.9		700	28
1200	915	904	808					762	762	762				762			32.52 826.0	31.78 807.2	32.52 826.0	750	30
1400			882	820	842			813	813	813					813		34.62 879.3	33.84 859.5		800	32
1600	977	952															35.66 905.8	34.88 886.0	35.66 905.8	825	33
1800	1024	996	927					864	864	864			864					35.92 912.4		850	34
2000			970	924	945			914	914	914					914		38.76 984.5	37.96 964.2	38.76 984.5	900	36
				1027	1048			1016	1016	1016					1016		42.92 1090.2	42.06 1068.3		1000	40
								1067							1067		45.0 1143.0	44.12 1120.6	45.0 1143.0	1050	42
				1144	1152 BS ONLY			118						1168	1118			46.16 1172.5		1100	44
				1228	1255			1220	1220	1220					1219		51.20 1300.5	50.26 1276.6	51.20 1300.5	1200	48

Notes

Notes

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