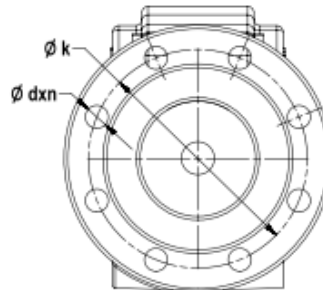
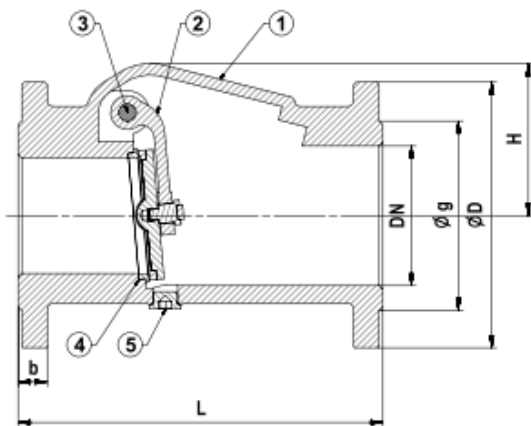


HERZ Swing Check Valve

Data sheet for 4 2622 2x, Issue 0916

☑ Dimensions in mm



Order number		4 2622 21	4 2622 22	4 2622 23	4 2622 24	4 2622 25	4 2622 26	4 2622 27	4 2622 28	
DN	mm	65	80	100	125	150	200	250	300	
L	mm	240	260	300	350	400	500	600	700	
H	mm	87	104	125	157	186	240	295	372	
D	mm	185	200	220	250	285	340	405	460	
k	mm	145	160	180	210	140	295	355	410	Flange
g	mm	118	132	156	184	211	266	319	370	
b	mm	20	22	24	26	26	20	22	25	
d	mm	19	19	19	19	23	23	28	28	
n	mm	4	8	8	8	8	12	12	12	Hole Qty
Weight	kg	10.5	14	20	30	43	70	120	164	

Flange Dimensions according to EN 1092-2

☑ Materials

Part no	Part	Material
1	Body	GG25
2	Disc	GGG40 / EPDM coated
3	Stem	Stainless steel
4	Seat	GG25
5	Gasket	EPDM

☑ Specification

For hot and cold water systems for fluids excluding acid. Heating water quality according ÖNORM H5195 or VDI-Standard 2035. The use of ethylene or propylene glycol in a mixing ratio 25- 50% is allowed.

Temperatures -10°C ... +120°C

Max. Pressure PN16

Installation Operation and Maintenance Instructions

Pressure/Temperature Rating

Valves must be installed in a piping system whose normal pressure and temperature do not exceed these ratings.

If system testing will subject the valve to pressures in excess of the working pressure rating, this should be within the test pressure for the body with the pressure applied upstream of the obturator.

The maximum allowable pressure in valves as specified in the standards is for non-shock conditions. Water hammer and impact for example, should be avoided.

If the limits of use specified in these instructions are exceeded or if the valve is used on applications for which it was not designed, a potential hazard could result.

Layout and Siting

The Swing check valve may be installed in horizontal pipework and vertical pipework if the flow is in an upwards direction.

Swing check valves having 6 diameters of straight lengths of pipe upstream and 3 diameters downstream are suitable for velocities up to 3 metres/second. If the valve is situated such that turbulent flow enters the valve or is situated close to reciprocating pumps then the velocity should not exceed 2 metres/second.

Valves must be provided with adequate support. Adjoining pipework must be supported to avoid the imposition of pipeline strains on the valve body.

Heavy valves may need independent support or anchorage.

Note:- Check valves must not be fitted in vertical pipework with the flow downwards.

Installation

Prior to installation, a check of the identification plate and body marking must be made to ensure that the correct valve is being installed.

Valves are precision manufactured items and as such, should not be subjected to misuse such as careless handling, allowing dirt to enter the valve through the end ports, lack of cleaning both valve and system before operation and excessive force during bolting.

All special packaging material must be removed.

REMOVE ANY CHOCKS FROM INSIDE THE VALVE, which could be fitted to prevent disk movement.

The valve should be inspected to check the bores are clean and free from foreign material and that the disk operates smoothly.

Immediately prior to valve installation, the pipework to which the valve is to be fastened should be checked for cleanliness and freedom from debris.

In horizontal pipework the valve must be installed so that the disk hinge is uppermost and horizontal with the disk hanging.

Note:- The valve must be installed with the direction arrow on the body coincident with the direction of flow in the pipeline. For vertical pipework the flow direction should be upwards only.

Valves must be provided with adequate support. Adjoining pipework must be supported to avoid the imposition of pipeline strains on the valve body.

The mating faces of the valve and of the adjoining pipework flanges should be checked for correct gasket contact face, surface finish and condition. If a condition is found which might cause leakage, no attempt to assemble should be made until the condition has been corrected.

The gasket should be suitable for operation conditions or maximum pressure/temperature ratings.

The gaskets should be checked to ensure freedom from defects or damage.

Care should be taken to provide correct alignment of the flanges being assembled and centralising the valve within the flange bolting. Ensure that the interbolt gasketry is also centralised and does not protrude into the pipe bore

Suitable lubricant on bolt threads should be used. In assembly, bolts are tightened sequentially to make the initial contact of flanges and gaskets flat and parallel followed by gradual and uniform tightening in an opposite bolting sequence to avoid bending one pipe flange relative to the other.

Parallel alignment of flanges is especially important in the case of the assembly of a valve into an existing system.

Flanged joints depend on compressive deformation of the gasket material between the flange surfaces.

The bolting must be checked for correct size, length, material and that all connection flange bolt holes are utilized.

At the conclusion of installation and before operating, all dust deposits shall be removed from the equipment.

Before commissioning a system, it should be flushed to eliminate debris and chemically cleaned as appropriate to eliminate contamination, all of which will prolong the life of the valve.

Operating

The Swing Check valve is self-acting.

Maintenance

The Swing check valves are maintenance free.

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