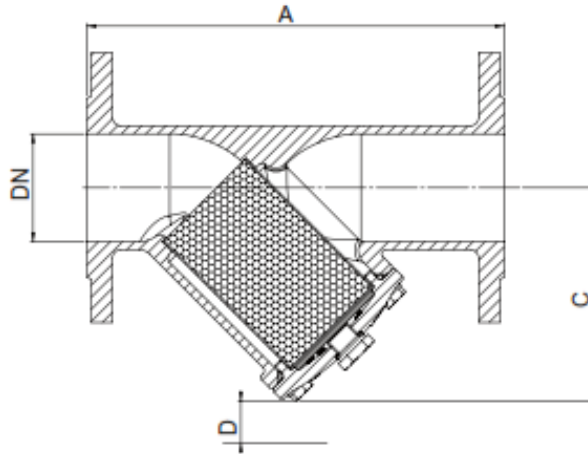


HERZ Ductile Iron Strainer PN10

Standard sheet for
HV185W (0419)



Component	Material	Specification	
		BS EN	ASTM
Screen	Stainless Steel	X5CrNi18-10	AISI 304
Bolt	Stainless Steel	X5CrNi18-10	AISI 304
Plug	Brass	CuZn40Pb3	
Cover	Ductile Iron + Epoxy	GJS-400-15	A 48 35 B
Body	Ductile Iron + Epoxy	GJS-400-15	A 48 35 B
Seal	EPDM		

Materials

	DN	65	80	100	125	150	200	250	300
A	mm	290	310	350	400	480	600	730	850
C	mm	137	159	187	249	301	403	472	508
D	mm	65	75	90	125	170	220	200	250
Mesh	mm	0.8	1.25	1.25	1.25	1.25	1.25	1.60	1.60
kv	m ³ /h	89	127	200	364	494	937	1137	1844
Flange	PN	10	10	10	10	10	10	10	10
Pressure	Bar	16	16	16	16	16	10	10	10
Weight	kg	9.8	13.5	18	27.5	43	83	112	160

Dimensions

Epoxy coated DI body with PN10 connection flanges

Temperature Rating
-10 to 100°C

Pressure Rating
16 bar up to DN150
10 bar DN200 to DN300

Flanged to BS EN 1092-2 PN10

Face to face dimensions to BS EN 558-1 series 1

Specification



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Installation Operation & Maintenance Instructions

PRESSURE/TEMPERATURE RATING

Strainers must be installed in a piping system whose normal pressure and temperature do not exceed the above ratings.

The maximum allowable pressure in Strainers 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 Strainer is used on applications for which it was not designed, a potential hazard could result.

LAYOUT AND SITING

It should be considered at the design stage where strainers will be located to give access for operation, cleaning, maintenance and repair.

Strainers must be provided with adequate support. Adjoining pipework must be supported to avoid the imposition of pipeline strains on the strainer.

Heavy strainers may need independent support or anchorage.

INSTALLATION

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

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

All special packaging material must be removed.

Strainers must be provided with adequate support. Adjoining pipework must be supported to avoid the imposition of pipeline strains on the strainer.

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

Note:

The strainer 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 shall be downwards only.

If strainers are installed in horizontal pipework the strainer body must be lowermost.

For the purpose of maintenance the strainer shall be installed with sufficient room so that the strainer element can be withdrawn from beneath in a downwards direction.

The strainer interior should be inspected through the end ports to determine whether it is clean and free from foreign matter.

The mating flanges (both strainer and 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 operating conditions or maximum pressure/temperature ratings and should be checked to ensure freedom from defects or damage.

Care should be taken to provide correct alignment of the flanges being assembled. 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 flange relative to the other, particularly on flanges with raised faces.

Parallel alignment of flanges is especially important in the case of the assembly of a strainer 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.

OPERATING

The element will require cleaning after the flushing process and periodically thereafter.

MAINTENANCE

The strainer should be at zero pressure and ambient temperature prior to any maintenance.

Maintenance Engineers & Operators are reminded to use correct fitting tools and equipment.

Strainer Element Cleaning and Gasket replacement

The strainer has a bolted cover which requires removing to allow withdrawal of the strainer element.

1. Isolate the strainer from the system pressure and drain.
2. Slacken all bolts gradually and remove sequentially taking care to support the weight of the cover as the final bolt is removed.
3. Clean the strainer element using a brush and or water jet. A face mask should be worn as a precaution to prevent inhalation of particles or contaminated water.
4. Once the strainer element has been cleaned the strainer can be re-assembled. The sealing gasket should be renewed if damage has occurred. Ensure the body and cover joint faces are clean.
5. Locate the strainer in the cover and offer up to the body, aligning the bolt holes. Fit bolts and tighten sequentially.

Drain Plug

The drain plug may be removed to allow debris to be flushed from the strainer and will require isolation of the strainer from the system.

Prior to commissioning a drain cock may be fitted to replace the plug which will allow strainer flushing whilst under line pressure



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