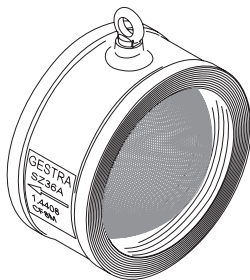
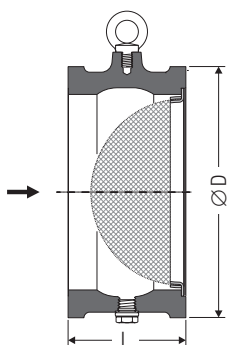
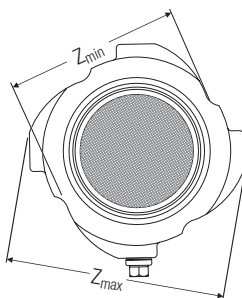
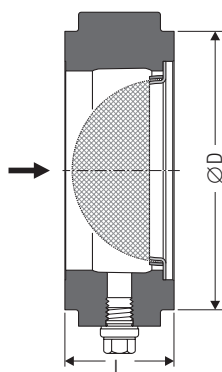


DN 40-100



DN 125-200



Strainers

SZ 36A for Flanges PN 10/16/25/40, DN 40-200 ASME Class 125/150/300

Description

Wafer-pattern strainers with exchangeable mesh screen for sandwiching between pipe flanges. Installation in any position. Thanks to the straight-through flow design there is hardly any pressure loss. For use with fluids, gases and vapors. Please observe the classification according to the Pressure Equipment Directive. For fitting between pipe flanges to DIN/EN, BS and ASME. The four centering cams on the body (DN 40 – DN 100) greatly facilitate the mounting process. With broad sealing surfaces.

Design

Body with patented universal centering (DN 40 – DN 100) and drain hole. Robust hemispherical screen. Mesh size 1.25 mm for DN 40 – DN 100. Mesh size 1.6 mm for DN 125 – DN 200. Optional: fine screen, mesh size 0.25 mm. Optional: free of silicone / free of oil & grease / pickled and passivated.

Pressure / Temperature Rating

SZ 36A		DIN, EN, ASME B16.5, Class 300									
DN 40 – 200	[°C]	–200	–10	20	100	200	300	350 ¹⁾	400 ¹⁾	500 ¹⁾	550 ¹⁾
	[bar]	49.6	49.6	49.6	42.2	35.7	31.6	30.3	29.4	28.2	24.9

¹⁾ If the operating temperatures exceed 300 °C intercrystalline corrosion may occur. Do not subject the equipment to operating temperatures higher than 300° C unless intercrystalline corrosion can be ruled out.

For more information on the chemical suitability please contact our Technical Services.

Connection

Wafer design in short overall length to EN 558-1, table 11, series 49 (DIN 3202, series K4), for sandwiching between the following pipe flanges:

DIN ¹⁾	ASME	BS 10	JIS ³⁾
EN 1092-1 PN 10/16/25/40 ²⁾	B 16.1 Class 125 FF B 16.5 Class 150/300 RF	Table D, E, F, H, J	B2238 10K

¹⁾ DN 125 – 200: On request form D or form E to EN 1092

²⁾ DN 15 – 100 also suitable for PN 6

³⁾ Apart from DN 80 suitable for sandwiching between flange type JIS 10 K. Please state DN 80 when ordering (rework necessary).

Dimensions

Size	[mm]	40	50	65	80	100	125	150	200
	[inch]	1½	2	2½	3	4	5	6	8
Dimensions [mm]	L	31,5	40	46	50	60	90	106	140
	Z _{min}	83	96	110	128	151			
	Z _{max}	104	118	136	158	186			
Ø D	PN 10/16						194	220	275
	PN 25						194	226	286
	PN 40						194	226	293
	Class 125/150						194	220	275
	Class 300						216	251	308
Weight	[kg]	0.9	1.5	2.0	2.7	4.3	7.3	13.0	17.1

Materials

DN 40 – 200	DIN/EN	ASTM	Category
Body	1.4408	A351CF8M	Stainless steel
Screen	1.4301	A 182F304	Stainless steel
Drain plug	A4		Stainless steel
Gasket	1.4571	AISI 316 Ti	Stainless steel

If you want to use the strainer in pure steam installations, for foodstuff or pharmaceutical applications etc. please order the pickled design.

Strainers

SZ 36A
for Flanges PN 10/16/25/40
DN 40-200
ASME Class 125/150/300

Enquiry Specification

GESTRA strainer in short overall length to EN 558-1, table 11, series 49. Body with drain plug, DN 40 – DN 100 with four centering cams, DN 125 – DN 200 with cylindrical centering.

Broad sealing surfaces at body inlet and outlet faces. Version in accordance with PED 97/23/EN, with CE marking.

Type:	SZ 36 A
Connection:	Wafer design for sandwiching between flanges
Sizes:	DN 40 / DN 50 / DN 65 / DN 80 / DN 100 / DN 125 / DN 150 / DN 200
Pressure:	PN 10 / PN 16 / PN 25 / PN 40 / CL 125 FF / CL 150 / CL 300 RF / CL 400
Screen:	Normal / fine screen Normal screen: mesh size 1.25 mm (DN 40 – 100) 1.60 mm (DN 125 – 200) Fine screen: 0.25 mm
Surface treatment:	Free of silicone / free of oil & grease / pickled and passivated
Inspection:	Test certificate to EN 10204, 2.2 / 3.1

Inspection & Certification

Documentation regarding material tests and in-house examination with test report EN10204 available. All inspection requirements have to be stated with the enquiry or order. After supply of the equipment certification cannot be established. Charges and extent of the above mentioned test certificates as well as the different tests confirmed therein are listed in our Price List „Test and Inspection Charges for Standard Equipment“. For other tests and inspections than those listed above, please consult us.

Application of European Directives

Pressure Equipment Directive (PED)

The equipment conforms to this directive and can be used for the following media:

- Fluids of group 1
- Fluids of group 2

ATEX Directive

The equipment does not have its own potential ignition source and is not subject to this directive.

Static electricity: When installed, static electricity may arise between the equipment and the connected system.

When used in potentially explosive atmospheres, the plant manufacturer or plant operator is responsible for discharging or preventing possible static charge.

If it is possible for medium to escape, e.g. through actuating mechanisms or leaks in threaded joints, the plant manufacturer or plant operator must take this into consideration when dividing the area into zones.

Supply in accordance with our general terms of business.

Resistance value ζ (zeta)

Size	DN	40	50	65	80	100	125	150	200
Normal screen	ζ	1.5	1.3	1.3	1.4	1.5	1.5	1.5	1.6
Fine screen	ζ	2.2	2.0	1.8	2.0	2.1	2.8	2.5	2.4

Formula for calculating the pressure loss of the equipment:

$$\Delta p = \zeta \frac{v^2}{2} \rho \quad [\text{Pa}] ; 1 \text{ bar} = 100000 \text{ Pa}$$

- ζ = See table
 v [m/s] = Flow velocity
 ρ [kg/m³] = Density

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