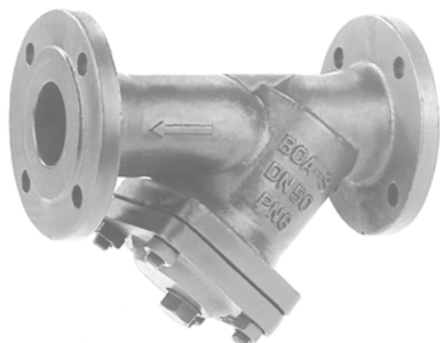


Strainer

with drain plug



Flanged

PN 6, 16, 25
DN 15-300

Fields of Application

- Hot and high-temperature hot water, steam, fluids containing mineral oils and organic heat transfer fluids in systems or system components without special technical codes
- Hot water heating systems DIN 4751
- High-temperature hot water heating systems DIN 4752
- Heat transfer systems DIN 4754
- Steam boiler systems to TRD 108/110
- Pressure vessel systems to TRB 801 No. 45
- Other fluids on request

The limits given in the technical codes must be complied with.

Operating Data

- Maximum permissible pressure 25 bar
- Maximum permissible temperature 350 °C
- Selection as per pressure-temperature ratings (see overleaf)

Materials

Valve body:

- Lamellar graphite cast iron EN-GJL-250, JL 1040
PN 6 and PN 16
- Nodular cast iron EN-GJS-400-18-LT, JS 1025
PN 16 and PN 25
- For further details, see list of materials.

Design

- Strainer in slanted seat design
- Strainer insert made of stainless steel
- Insert accurately guided in cover and body
- Outside confined cover gasket
- Exterior coating: blue similar to RAL 5002
- Drain plug
- For size DN 150 and above: additional strainer basket made of perforated stainless steel sheet
- Free from asbestos, CFC and PCB

The valves meet the safety requirements of the Pressure Equipment Directive 97/23/EC (PED) of annex I for fluids in groups 1 and 2.

Standard Variants

- Fine-mesh strainer insert
- High temperature resistant paint, aluminium grey, for applications > 200 °C (JS 1025 only)
- Other flange designs (JS 1025 only)

Additional information

- For handling **aggressive** fluids in the general and chemical industry, in power station and process engineering we recommend our NORICHEM® stainless steel strainers as described in type series booklet 8113.1
- Operating instructions 0570.8

On all enquiries / orders please specify

Strainer

1. BOA®-S as per type series booklet 7125.1
2. EN-GJL-250, PN 6, DN 15-200
EN-GJL-250, PN 16, DN 15-300
EN-GJS-400-18-LT, PN 16, DN 15-300
EN-GJS-400-18-LT, PN 25, DN 15-200
3. Standard variants



Pressure-Temperature Ratings

Nominal pressure PN	Material	Shell / pressure and leak test in bar with water Body (P10, P11) ¹⁾	Permissible operating pressures in bar at temperatures in °C ²⁾				
			-10 to +120	200	250	300	350
6	EN-GJL-250	9	6	4,8	4,2	3,6	-
16		24	16	12,8	11,2	9,6	-
16	EN-GJS-400-18-LT	24	16	13	13	13	10
25		37,5	25	20	18	16	12

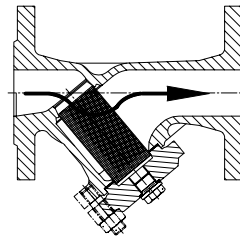
¹⁾ DIN EN 12266-1 (P10, P11) (ISO 5208)

²⁾ Intermediate temperatures can be derived by linear interpolation.

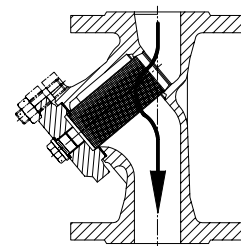
Note: DIN EN 1092-2 para. 5.3 and any plant regulations governing the application in question must be observed when selecting connecting elements between the valve and the piping system.

Installation

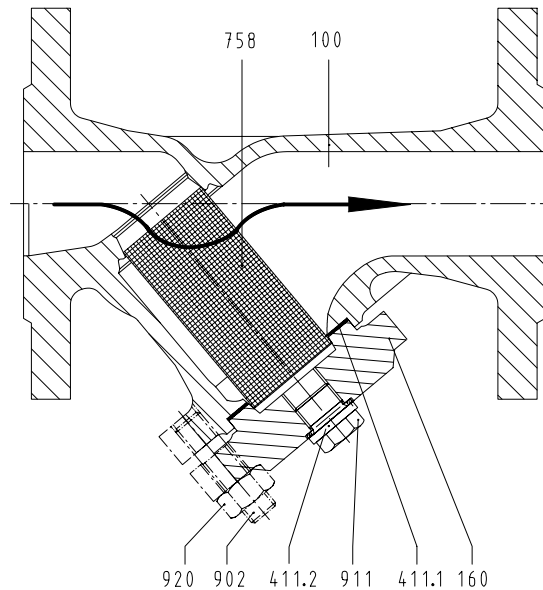
In both horizontal and vertical pipes, we recommend to install the strainer with the strainer insert pointing downwards to facilitate cleaning. Compliance with the directional arrow is important.



Horizontal installation



Vertical installation



Materials

Part No.	Description	PN	Material	Comments
100	Body	6, 16	EN-GJL-250	
		16, 25	EN-GJS-400-18-LT	
160	Cover	6, 16	EN-GJL-250	
		16, 25	EN-GJS-400-18-LT	
411.1	Joint ring	6, 16	CrNi-St-graphite 17	
		16, 25	TESNIT BA-F graphite	
411.2	Joint ring	6, 16, 25	A4	
758	strainer insert	6, 16	X 6 CrNiTi 18 10	1.4541
		16, 25	X 5 CrNi 18 10	1.4301
191	Strainer basket	6, 16	X 6 CrNiTi 18 10	1.4541
		16, 25	X 5 CrNi 18 10	1.4301
902	Stud	6, 16	5.6 or 8.8	gal ZN
		16, 25	Ck 35 V	galvanized, zinc
911	Drain plug	6, 16	A4 or A2	galvanized, zinc
		16, 25	Ck 35 V	galvanized, zinc
920	Hex. nut	6, 16	5-2 or 8	galvanized, zinc
		16, 25	C 35	galvanized zinc

Dimensions of variant EN-GJL-250

Strainer insert made of stainless steel

Your benefit:

- Long service life

Drain plug as standard

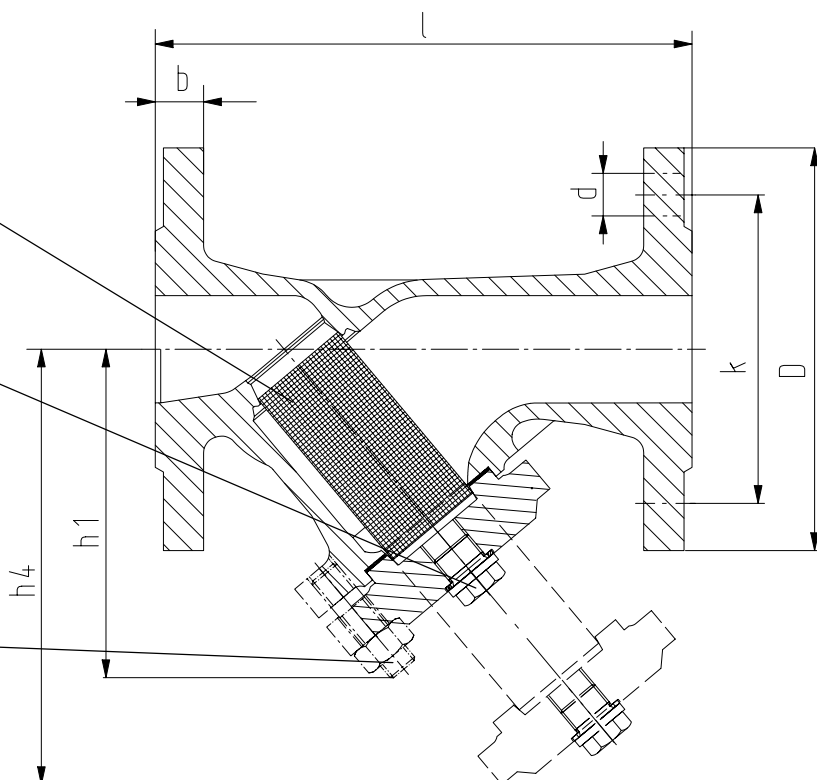
Your benefit:

- Clean draining procedure, especially on large nominal diameters

Studs

Your benefit:

- Time and cost saving replacement of strainer insert, without removing the body insulation



PN	Dimensions (mm)									Weight approx. kg	Performance						
	DN	l	D	k	n x d	b	h ₁	h ₄	Drain plug		Standard mesh		Fine mesh				
											K _V m ³ /h	Zeta value	K _V m ³ /h	Zeta value			
6	15	130	80	55	4x11	12	90	120	G 3/8"	2,5	5,7	2,5	5,3	2,9			
	20	150	90	65	4x11	14	100	139		3,0	10,4	2,4	9,5	2,8			
	25	160	100	75	4x11	14	115	144		4,5	16,4	2,3	15,1	2,7			
	32	180	120	90	4x14	16	125	171		5,5	27,3	2,3	24,7	2,7			
	40	200	130	100	4x14	16	150	180		7,0	42,0	2,3	38,2	2,8			
	50	230	140	110	4x14	16	160	202		9,0	64,7	2,4	57,2	3,0			
	6	65	290	160	130	4x14	16	180	224	G 1/2"	13,0	96,0	3,1	81,1	4,3		
		80	310	190	150	4x18	18	215	255		19,0	149,0	3,0	119,0	4,6		
		100	350	210	170	4x18	18	235	344		26,0	223,0	3,2	181,0	4,9		
		125	400	240	200	8x18	20	275	366		38,0	347,0	3,2	281,0	5,0		
		150	480	265	225	8x18	20	305	426		54,0	480,0	3,5	380,0	5,6		
		200	600	320	280	8x18	22	390	565		110,0	853,0	3,5	672,0	5,7		
		16	15	130	95	65	4x14	14	90		120	G 3/8"	3,0	5,7	2,5	5,3	2,9
			20	150	105	75	4x14	16	100		139		4,0	10,4	2,4	9,5	2,8
25	160		115	85	4x14	16	115	144	5,0	16,4	2,3		15,1	2,7			
32	180		140	100	4x18	18	125	171	7,0	27,3	2,3		24,7	2,7			
40	200		150	110	4x18	18	150	180	9,0	42,0	2,3		38,2	2,8			
50	230		165	125	4x18	20	160	202	12,0	64,7	2,4		57,2	3,0			
16	65		290	185	145	4x18	20	180	224	G 1/2"	16,0	96,0	3,1	81,1	4,3		
	80		310	200	160	8x18	22	215	255		21,0	149,0	3,0	119,0	4,6		
	100		350	220	180	8x18	24	235	344		30,0	223,0	3,2	181,0	4,9		
	125		400	250	210	8x18	26	275	366		43,0	347,0	3,2	281,0	5,0		
	150		480	285	240	8x22	26	305	426		61,0	480,0	3,5	380,0	5,6		
	200		600	340	295	12x22	30	390	565		121,0	853,0	3,5	672,0	5,7		
	250		730	405	355	12x26	32	540	747		154,0	1104,0	5,1	838,0	8,9		
	300		850	460	410	12x26	32	680	931		255,0	1450,0	6,1	1090,0	10,9		

DN	Standard mesh		Fine mesh	
	Mesh width	Wire diameter	Mesh width	Wire diameter
15-50	1,0	0,5	0,25	0,16
65-80	1,25	0,63		
100-300	1,6	1,0		

Dimensions of variant EN-GJS-400-18-LT

Strainer insert made of stainless steel

Your benefit:

- Long service life

Drain plug as standard

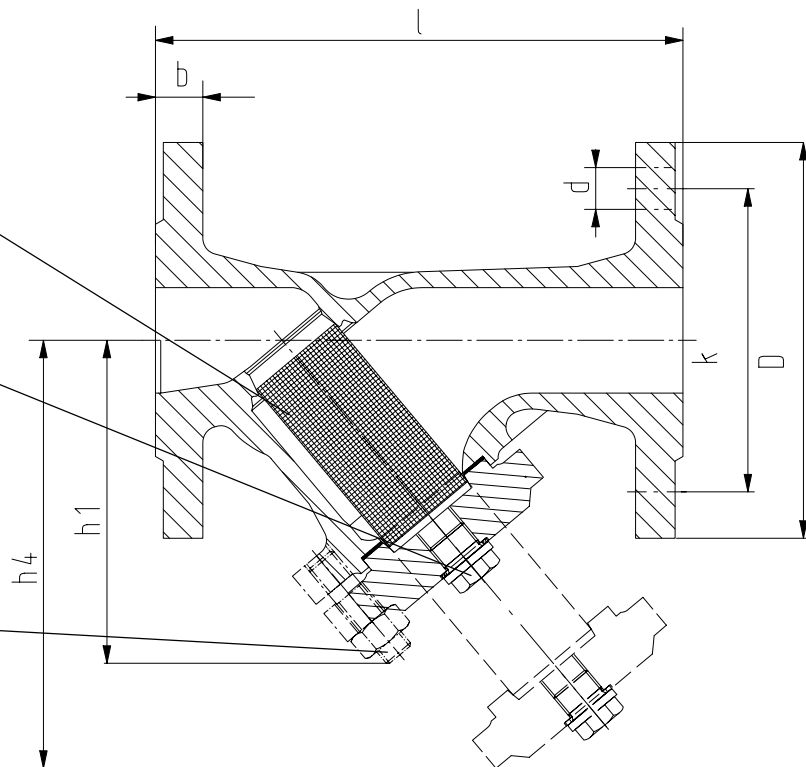
Your benefit:

- Clean draining procedure, especially on large nominal diameters

Studs

Your benefit:

- Time and cost saving replacement of strainer insert, without removing the body insulation



PN	Dimensions (mm)									Drain plug	Weight approx. kg	Weight			
	DN	l	D	k	n x d	b	h ₁	h ₄	Standard mesh			Fine mesh			
									K _v m ³ /h			Zeta value	K _v m ³ /h	Zeta value	
16	15	130	95	65	4x14	16	75	115	G 1/2"	3,5	5,30	2,88	5,00	3,24	
	20	150	105	75	4x14	18	75	115		4,0	9,50	2,84	9,00	3,16	
	25	160	115	85	4x14	18	90	135		5,5	16,50	2,30	14,80	2,85	
	32	180	140	100	4x18	20	90	135		7,0	20,00	4,19	18,00	5,18	
	40	200	150	110	4x18	20	110	170		9,0	33,00	3,76	30,00	4,55	
	50	230	165	125	4x18	22	120	190		12,0	54,00	3,43	48,00	4,34	
	G 1"	65	290	185	145	4x18	24	140	220	16,0	95,00	3,16	85,00	3,95	
		80	310	200	160	8x18	26	165	265	21,0	140,00	3,34	131,00	3,82	
		100	350	220	180	8x18	28	220	340	28,0	201,00	3,96	189,00	4,48	
		125	400	250	210	8x18	30	260	410	41,0	340,00	3,38	320,00	3,81	
		150	480	285	240	8x22	30	300	475	58,0	526,00	2,93	494,00	3,32	
		200	600	340	295	12x22	34	360	580	121,0	870,00	3,38	818,00	3,83	
		250	730	405	355	12x26	36	470	680	154,0	1260,00	3,94	1184,00	4,46	
		300	850	460	410	12x26	36	560	820	255,0	1735,00	4,31	1631,00	4,87	
25	15	130	95	65	4x14	16	75	115	G 1/2"	3,5	5,30	2,88	5,00	3,24	
	20	150	105	75	4x14	18	75	115		4,0	9,50	2,84	9,00	3,16	
	25	160	115	85	4x14	18	90	135		5,5	16,50	2,30	14,80	2,85	
	32	180	140	100	4x18	20	90	135		7,0	20,00	4,19	18,00	5,18	
	40	200	150	110	4x18	20	110	170		9,0	33,00	3,76	30,00	4,55	
	50	230	165	125	4x18	22	120	190		12,0	54,00	3,43	48,00	4,34	
	G 1"	65	290	185	145	8x18	24	140	220	16,0	95,00	3,16	85,00	3,95	
		80	310	200	160	8x18	26	165	265	21,0	140,00	3,34	131,00	3,82	
		100	350	235	190	8x22	28	220	340	32,0	201,00	3,96	189,00	4,48	
		125	400	270	220	8x26	30	260	410	47,0	340,00	3,38	320,00	3,81	
		150	480	300	250	8x26	34	300	475	64,0	526,00	2,93	494,00	3,32	
		200	600	360	310	12x26	34	360	580	133,0	870,00	3,38	818,00	3,83	

DN	Standard mesh		Fine mesh	
	Mesh width	Wire diameter	Mesh width	Wire diameter
15-20	0,54	0,31	0,25	0,17
25-65	0,87	0,4		
80-300	1,18	0,7		

Mating Dimensions - Standards

Face-to-face lengths: EN 558-1/1

ISO 5752/1

Flanges: DIN EN 1092-2, flange type 21
(EN-GJL-250)

DIN EN 1092-2, flange type 21-2

(EN-GJS-400-18-LT)

Flange facing: DIN EN 1092-2, type B



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