CERTIFIED
ISO 9001 · ISO 14001
ISO 45001

LDM®

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STRAINERS - FLANGED

FP 110, FP 210
FP 220, FP 230

POWER THROUGH IDEAS
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Strainers - flanged

FP 110
FP 210
FP 220
FP 230

DN 15 - 400 | PN 16, 25, 40

Flanged strainers FP 110, 210, 220, 230 are designed to clean process media from mechanical impurities. The strainers excel with a robust body construction made of stainless steel with possibility of draining without necessity of bonnet dismantling.

Application

The strainers are designed for applications in heating and other industries especialy in hot-water, possibly steam circuits. The wide range of diametres enables using of thesestrainers in most of the common applications.

Process media

The strainers are suitable for water, steam, air and other neutral media compatible with material of body and screen.

Installation

Flow direction is determined by the arrows on the body. General mounting position of the strainer in a horizontal pipeline is by the bonnet downwards.
In a vertical pipeline is allowed top-down flow direction only. When used for water steam or gases, preferable mounting position is to avoid floatation (i. e. bonnet sideward).

Technical data

Series	FP 110	FP 210	FP 220	FP 230
Execution	**Strainer - flanged**			
Diameter nominal range	DN 15 to 400	DN 15 to 200	DN 15 to 200	
Nominal pressure	PN 16	PN 25	PN 16, 25, 40	
Material of body and bonnet	Grey cast iron EN-JL1040 (EN-GJL-250)	Spheroidal cast iron EN-JS1025 (EN-GJS-400-18-LT)	Cast steel 1.0619 (GP240GH)	Stainless steel 1.4581 (GX5CrNiMoNb19-11-2)
Mesh screen material	Stainless steel 1.4301			
Range of operating temp.	0 to +300°C	-10 to +350°C	-20 to +400°C	
Connection	Type B1 (raised-faced flange) acc. to ČSN EN 1092-2 (1/1999)		Type B1 (raised-faced flange) acc. to ČSN EN 1092-1+A1 (7/2013)	
Face to face dimensions	acc. to ČSN EN 558+A1, section 1 (5/2012)			

Kvs values and loss coefficient z (zeta)

	DN															
	15	**20**	**25**	**32**	**40**	**50**	**65**	**80**	**100**	**125**	**150**	**200**	**250**	**300**	**350**	**400**
Kvs [m³/h]	6.3	11.2	14.7	23.7	37.7	57.9	102	147	210	326	403	707	1234	1916	2621	3460
z	2	2	2.9	3	2.9	3	2.7	3	3.6	3.7	5	5.1	4.1	3.5	3.5	3.4

The values apply to the basic design of the filter element

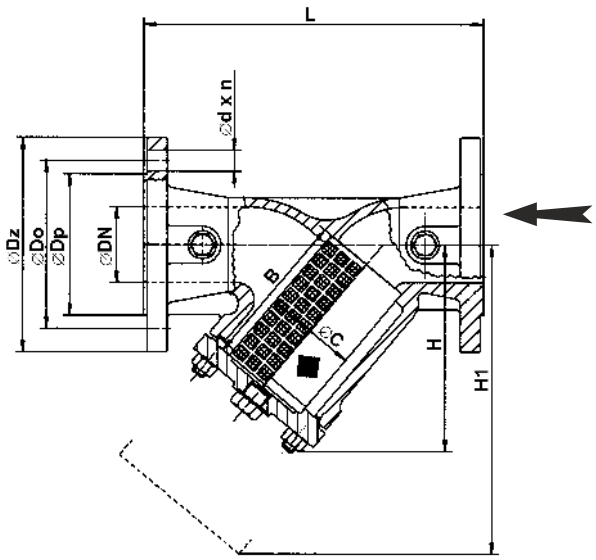
Mesh size table

Row "A" is mesh screen standard execution		DN															
		15	20	25	32	40	50	65	80	100	125	150	200	250	300	350	400
A	marking	F45						F28		F15							
	size	Ø 1,0 mm						Ø 1,25 mm		Ø 1,6 mm							
B	marking	F100															
	size	Ø 0,6 mm															
C	marking	F200															
	size	Ø 0,5 mm															
D	marking	F300															
	size	Ø 0,4 mm															
E	marking	F400															
	size	Ø 0,32 mm															
F	marking	F600															
	size	Ø 0,25 mm															
G	marking	F1.0										F1.6			F3.1		
	size	Ø 1,0 mm										Ø 1,6 mm			Ø 3,1 mm		

Note:
lines **A to F**: screen; line **G**: perforated plate

Dimensions and weights for the straners series FP

DN	PN 16						PN 25						PN 40						PN 16, 25, 40				PN 16,25	PN 40	PN 16	PN 25	PN 40
	Dz	Dp	Do	n	d	g	Dz	Dp	Do	n	d	g	Dz	Dp	Do	n	d	g	L	B	C	H_1	H	H	m	m	m
	mm	mm	mm		mm	mm	mm	mm	mm		mm	mm	mm	mm	mm		mm	mm	mm	mm	mm	mm	mm	mm	kg	kg	kg
15	95	46	65	4	14	14	95	46	65	4	14	14	95	45	65	4	14	16	130	56	23	135	90	70	2,6	2,6	2,7
20	105	56	75	4	14	16	105	56	75	4	14	16	105	58	75	4	14	18	150	68	28	150	100	80	3	3	3,6
25	115	65	85	4	14	16	115	65	85	4	14	16	115	68	85	4	14	18	160	82	36	180	115	88	4,3	4,3	4,5
32	140	76	100	4	19	18	140	76	100	4	19	18	140	78	100	4	18	18	180	98	42	215	135	100	6,8	6,8	6,3
40	150	84	110	4	19	18	150	84	110	4	19	19	150	88	110	4	18	18	200	114	50	240	150	125	8,8	9	8,7
50	165	99	125	4	19	20	165	99	125	4	19	19	165	102	125	4	18	20	230	119	61,5	250	160	140	11	10,7	11
65	185	118	145	4	19	20	185	118	145	8	19	19	185	122	145	8	18	22	290	134	78,5	285	180	170	16,8	16,1	15
80	200	132	160	8	19	22	200	132	160	8	19	19	200	138	160	8	18	24	310	149	89,5	330	215	190	19,5	18,2	22
100	220	156	180	8	19	24	235	156	190	8	23	19	235	162	190	8	22	24	350	169	109,5	365	235	225	34	32,5	31,5
125	250	184	210	8	19	26	270	184	220	8	28	19	270	188	220	8	26	26	400	199	137,5	425	280	260	42,5	39,2	46
150	285	211	240	8	23	26	300	211	250	8	28	20	300	218	250	8	26	28	480	224	160	480	320	320	56	52,2	71
200	340	266	295	12	23	30	360	274	310	12	28	22	375	285	320	12	30	34	600	284	210	610	405	420	110	103	135
250	405	319	355	12	28	32	---	---	---	---	---	---	---	---	---	---	---	---	730	434	258	915	540	---	165	---	---
300	460	370	410	12	28	32	---	---	---	---	---	---	---	---	---	---	---	---	850	555	308	1110	680	---	285	---	---
350	520	429	470	16	28	36	---	---	---	---	---	---	---	---	---	---	---	---	980	640	365	1200	755	---	373	---	---
400	580	480	525	16	31	38	---	---	---	---	---	---	---	---	---	---	---	---	1100	695	415	1320	835	---	461	---	---



Specification code for ordering the straners series FP

		XX	XXX	X	XX	XX	/	XXX	-	XXX
1. Strainer	Strainer - flanged	**FP**								
2. Series	Strainer made of grey cast iron EN-JL1040		**110**							
	Strainer made of spheroidal cast iron EN-JS1050		**210**							
	Strainer made of cast steel 1.0619		**220**							
	Strainer made of stainless steel 1.4581		**230**							
3. Execution	Stainless screen			**S**						
	Stainless screen with magnetic insertion			**M**						
4. Mesh size	A to G (according to the Mesh size table)				**X**					
5. Body material	Grey cast iron EN-JL1040				**3**					
	Spheroidal cast iron EN-JS1050				**4**					
	Cast steel 1.0619				**1**					
	Stainless steel 1.4581				**8**					
	Other material after agreement				**9**					
6. Nominal pressure	PN 16					**16**				
	PN 25					**25**				
	PN 40					**40**				
7. Max. operating temp. °C	300°C							**300**		
	350°C							**350**		
	400°C							**400**		
8. Nominal diameter	DN 15 to 400									**XXX**

Ordering example: **FP210 SA4 25/350-065**

Max. permissible pressure values [MPa]

Material	PN	Temperature [°C]						
		120	150	200	250	300	350	400
Grey cast iron EN-JL1040 (EN-GJL-250)	**16**	1.60	1.44	1.28	1.12	0.96	---	---
Spher. cast iron EN-JS1050 (EN-GJS-500-7)	**25**	2.50	2.43	2.30	2.18	2.00	1.75	---
Cast steel 1.0619 (GP240GH)	**16**	1.32	1.27	1.14	1.04	0.94	0.88	0.84
	25	2.07	1.98	1.78	1.62	1.47	1.37	1.32
	40	3.31	3.17	2.84	2.60	2.35	2.19	2.11
Stainless steel 1.4581 (GX5CrNiMoNb19-11-2)	**16**	1.39	1.33	1.25	1.17	1.10	1.06	1.02
	25	2.18	2.08	1.95	1.84	1.72	1.66	1.60
	40	3.49	3.33	3.13	2.94	2.75	2.65	2.56

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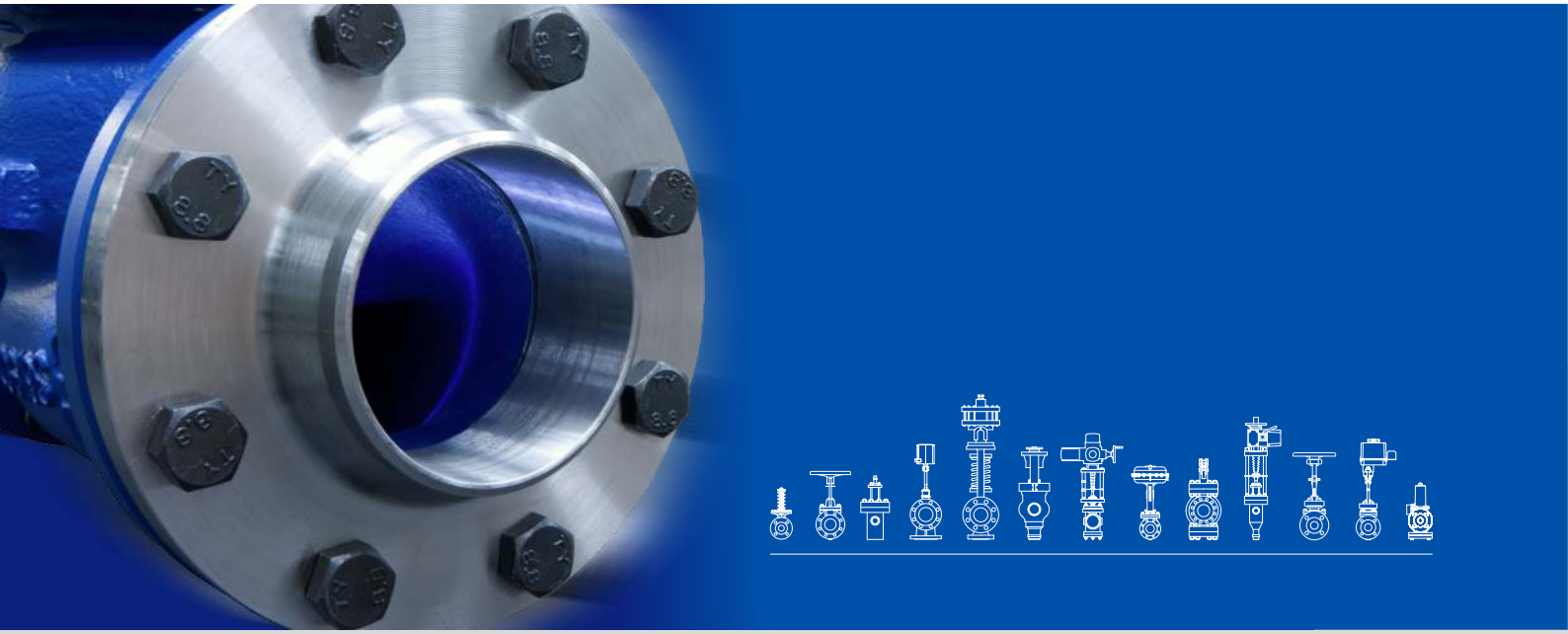

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