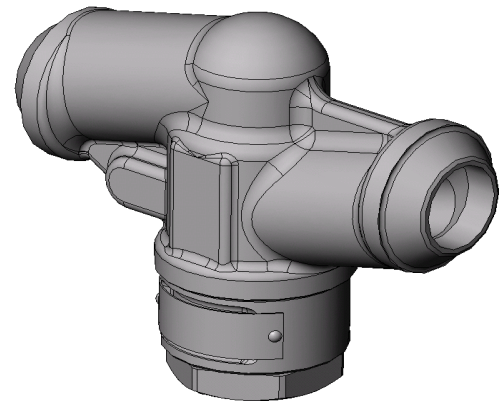


High pressure strainer D71.2

PN 63 –250 , DN 20 – 50 , T_{max}: 600°C

High-pressure strainer D71.2 with flanges or butt weld ends, strainer insert made of stainless steel, with non-asbestos gasket.
Meets the requirements of **PED 97/23/EC**.



- **EASY MAINTENANCE** - THE SEAT CAN BE EASILY REPAIRED THANKS TO CONVENIENT ACCESS AND FLAT SEAT DESIGN
- **CUSTOMER RELATED SOLUTION** – DESIGN VARIANTS AND MATERIALS COMBINATION ON REQUEST, DIFFERENT CONNECTION TYPES, CORROSION RESISTANT MATERIALS FOR AGGRESSIVE FLUIDS
- **STRAINER INSERT** – FOR DIFFERENT MEDIA

BASIC FEATURES

TYPE	D71.2 - High pressure strainer					
PN	63, 100, 160, 250					
DN	20, 25, 32, 40, 50					
MEDIUM	Water, steam, gas, oil, crude oil products, non-aggressive and aggressive substances					
WORKING TEMP. [°C]	-10 ÷ 450	-10 ÷ 530	-10 ÷ 570	-10 ÷ 600	-10 ÷ 600	-196 ÷ 600 ¹⁾
BODY MATERIAL	P250GH (C 22.8) (1.0460)	16Mo3 (1.5415)	13CrMo4-5 (1.7335)	11CrMo9-10 (1.7383)	14MoV6-3 (1.7715)	X6CrNiMoTi 17-12-2 (1.4571)
MATERIAL ON REQUEST	15128 (to ČSN41 5128), 11416 (to ČSN 41 1416) and other on your request					
TYPE OF CONNECTION	Flanged, butt weld, socket weld and threaded end acc. to DIN, EN, ČSN.					
FACE-TO-FACE DIMENSION	Per table , see page 5, 6					
DESIGN	High-pressure strainer: <ul style="list-style-type: none"> ▪ straight – way pattern ▪ drain plug ▪ with non asbestos gasket 			<ul style="list-style-type: none"> ▪ mesh – standard 56 meshes/cm² (min. 12, max. 500 meshes/cm²) ▪ with non asbestos gasket ▪ Testing acc. to ČSN EN 12266-1 (1.5xPN body and 1.1xPN seat) 		
BASIC DESIGN VARIANTS	<ul style="list-style-type: none"> ▪ Other designs of flanged and Butt-weld ends on your request ▪ Weld on connection branch from different forged materials 			<ul style="list-style-type: none"> ▪ Other testing requirements on request ▪ Delivery according to AD 2000 Merkblatt A4, TRD 110 and other standards on request ▪ Other on you request 		
PURCHASE ORDER DATA	<ul style="list-style-type: none"> ▪ PN ▪ DN ▪ Operating pressure and temperature ▪ Material of body ▪ Pipe connection 			<ul style="list-style-type: none"> ▪ Size of mechanic impurities ▪ Fluid, concentration and temperature ▪ Variants ▪ Type ▪ Next technical requirements 		

We reserve the right to make design changes without any previous announcement.

1) Application over 400 °C only for medium, which does not cause the intercrystalline corrosion.



PRESSURE-TEMPERATURE RATINGS

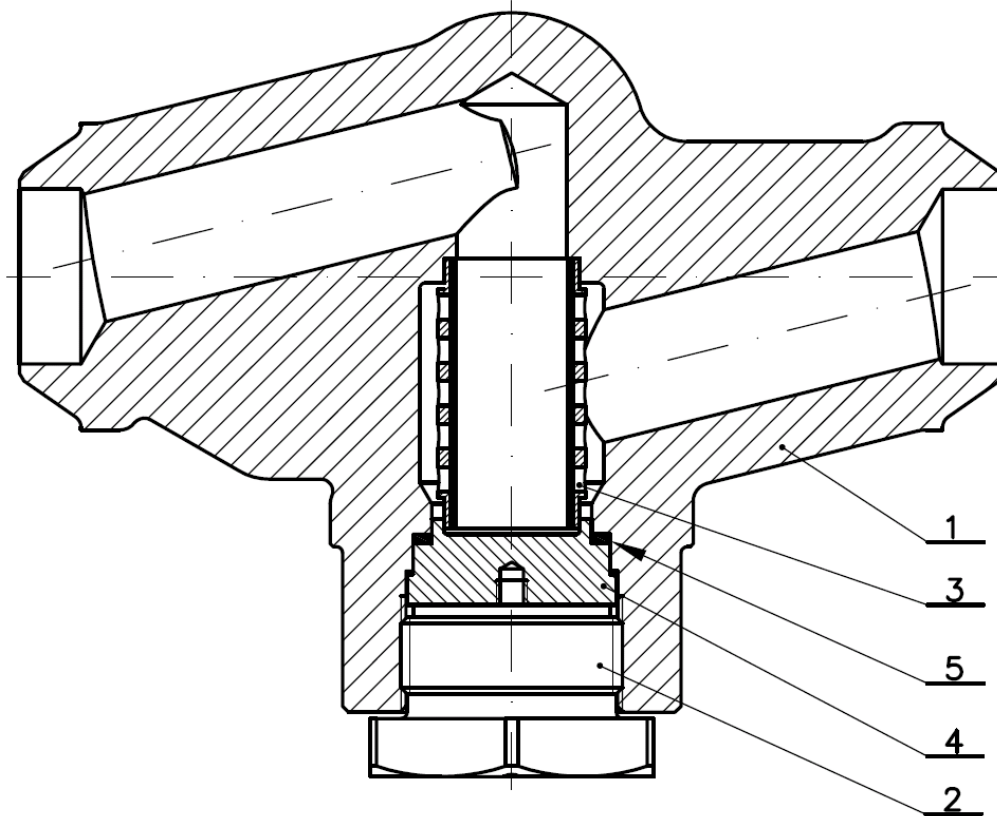
Material	PN	Maximum working pressure [bar] for working temperature TS [°C]																
		-10	50	100	150	200	250	280	300	350	380	390	400	410	420	430	440	450
P250GH (C22.8) (1.0460)	63	63	63	63	63	63	56,7	53,2	50,4	44,9	41,0	40,2	39,4	38,4	37,5	36,5	35,6	34,7
	100	100	100	100	100	100	90,0	84,5	80,0	71,3	65,0	63,8	62,5	61,0	59,5	58,0	56,5	55,0
	160	160	160	160	160	160	144	135	128	114	104	102	100	97,6	95,2	92,8	90,4	88,0
	250	250	250	250	250	250	225	212	200	178	163	159	156	153	149	145	141	138

Material	PN	Maximum working pressure [bar] for working temperature TS [°C]																		
		-10	200	250	300	350	400	450	475	490	500	510	520	530	540	550	575	580	600	
16Mo3 (1.5415)	63	63	63	63	63	59	56,7	52,9	50,4	44,1	36,5	25,7	20,4	16,3	-	-	-	-	-	
	100	100	100	100	100	94	90	84	80	70	58	40,8	32,4	25,8	-	-	-	-	-	
	160	160	160	160	160	151	144	134	128	112	92,8	65,3	51,8	41,3	-	-	-	-	-	
	250	250	250	250	250	238	225	210	200	175	145	102	81	64,5	-	-	-	-	-	
13CrMo4-5 (1.7335) 2)	63	63	63	63	63	63	56,7	55,3	52,3	50,4	40,3	32,8	27,1	21,2	17,0	10,5	-	-	-	
	100	100	100	100	100	100	90	87,8	83	80	64	52,0	43,0	33,6	27,0	16,6	-	-	-	
	160	160	160	160	160	160	144	140	133	128	102	83,2	68,8	53,8	43,2	26,6	-	-	-	
	250	250	250	250	250	250	225	220	208	200	160	130	108	84	67,5	41,5	-	-	-	
11CrMo9-10 (1.7383)	63	63	63	63	63	63	56,7	54,2	51,7	50,4	40,3	35,3	30,2	26,5	22,7	16,4	15,1	11,6		
	100	100	100	100	100	100	90,0	86,0	82,0	80,0	64,0	56,0	48,0	42,0	36,0	26,0	24,0	18,4		
	160	160	160	160	160	160	144	138	131	128	102	89,6	76,8	67,2	57,6	41,6	38,4	29,4		
	250	250	250	250	250	250	225	215	205	200	160	140	120	105	90,0	65,0	60,0	46,0		
14MoV63 (1.7715); 15128 (ČSN415128)	63	63	63	56	50,4	40,3	40,3	40,3	40,3	40,3	40,3	40,3	40,3	40,3	40,3	40,3	31,5	31,5	31,5	
	100	100	100	89	80,0	64,0	64,0	64,0	64,0	64,0	64,0	64,0	64,0	64,0	64,0	64,0	50,0	50,0	50,0	
	160	160	160	143	128	102	102	102	102	102	102	102	102	102	102	102	80,0	80,0	80,0	
	250	250	250	224	200	160	160	160	160	160	160	160	160	160	160	160	125	125	125	
X6CrNiMoTi17- 12-2 (1.4571) 1)	63	63	61,7	57,9	54,9	53,3	51,4	50,1	50,1	49,9	49,9	49,9	49,6	49,6	49,4	49,1	48,6	40,3	35,3	
	100	100	98,0	92,5	87,2	84,2	81,6	79,6	79,6	79,2	79,2	79,2	78,8	78,8	78,4	78,0	77,2	64,0	56,0	
	160	160	157	148	140	135	131	127	127	127	127	127	126	126	125	125	124	102	89,6	
	250	250	245	231	218	211	204	199	199	198	198	198	197	197	196	195	193	160	140	

- 1) Application over 400 °C only for medium, which does not cause the intercrystalline corrosion.
- 2) Material 1.7335 only to +570 °C



MATERIALS:



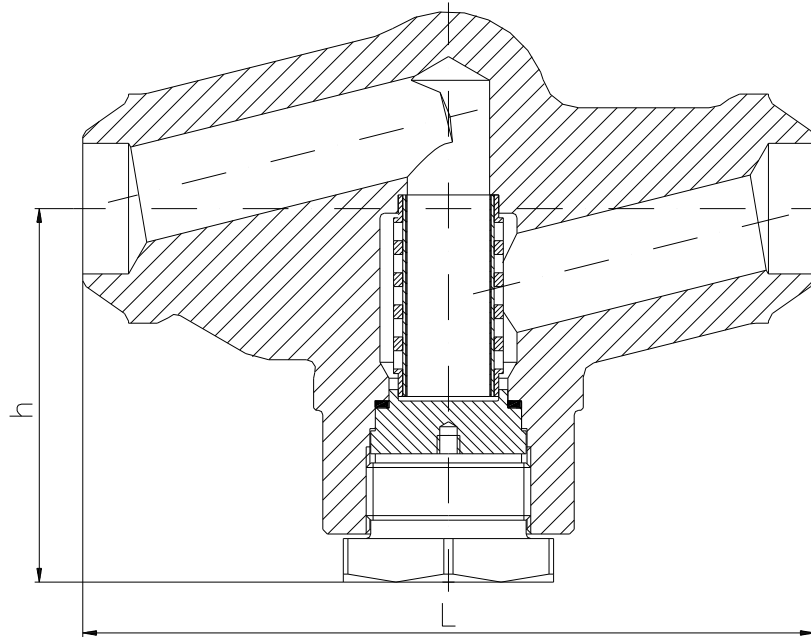
Pos.	Part	Material					
1	Body	P250GH (C22.8) (1.0460)	16Mo3 (1.5415)	13CrMo4-5 (1.7335)	11CrMo9-10 (1.7383)	14MoV6-3 (1.7715)	X6CrNiMoTi17-12-2 (1.4571) 1)
2	Drain plug	P250GH (C22.8) (1.0460)	X22CrMoV12-1 (1.4923)				X6CrNiMoTi17-12-2 (1.4571)
3	Strainer basket	X6CrNiTi18-10 (1.4541)					
4	Cover	X20Cr13 (1.4021)	X22CrMoV12-1 (1.4923)				X6CrNiMoTi17-12-2 (1.4571)
5	Gasket	graphitte					

1) Application over 400 °C only for medium, which does not cause the intercrystalline corrosion.

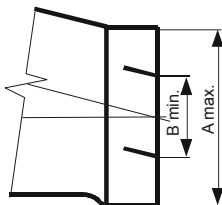
DIMENSIONS

Weld, socket weld and threaded ends

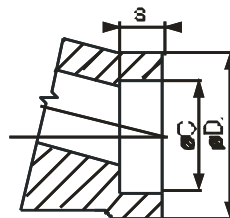
Face-to-face:	acc. to tables
Weld ends:	DIN 3239 – Part 1
Groove form:	DIN 2559 – Sheet 1, Form 22
Socket weld end:	EN 12 760 (DIN 3239- Part 2)
On your request:	ČSN 13 1075, ČSN 13 1070, EN 12 627, and other within the B_{min}, A_{min} dimensions.



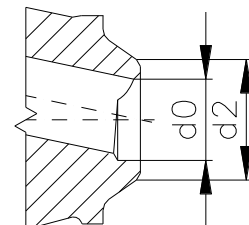
Butt - weld ends, not machined



Socket weld ends



Butt - weld ends





Dimensions in mm

Nominal size	Face-to-face	Centre-to-top	Butt-weld ends acc. to DIN 3239-1 Groove forms acc. to DIN 2559 – Sheet 1, Form 22						Socket weld ends to EN 12760 (DIN 3239- 2)			Not machined butt weld ends		Weight approximately
			PN 63, 100		PN 160		PN 250		PN 63 - 250					
DN	L	h	d ₂	d ₀	d ₂	d ₀	d ₂	d ₀	∅D ₁ -0,5	∅C ^{+0,2}	b _{min}	A _{max}	B _{min}	m [kg]
20	160	82	28	22,0	28	22,0	28	20,0	48	27,5	12,7	50	19	2,6
25	160	82	34	28,5	34	27,5	35	26,5	48	34,5	12,7	50	24	2,6
32	250	108	43	37,0	43	36,0	43	34,0	76	43	12,7	75	29	7,4
40	250	108	49	43,0	49	41,0	49	38,5	76	49	12,7	75	35	7,4
50	250	108	61	54,0	61	52,5	61	45,0	76	61	15,9	75	35	7,4

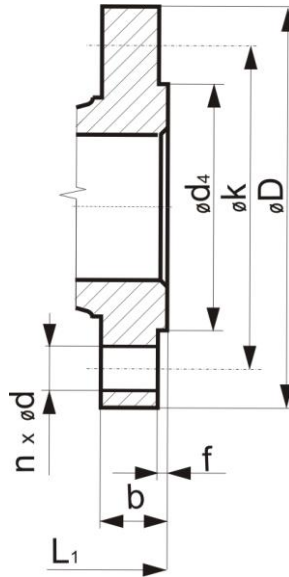
DN	Pipe dimension			
	PN 63	PN 100	PN 160	PN 250
10	17,2 x 2,0	17,2 x 2,0	17,2 x 2,0	17,2 x 2,6
15	21,3 x 2,0	21,3 x 2,0	21,3 x 2,0	21,3 x 2,6
20	26,9 x 2,3	26,9 x 2,3	26,9 x 2,3	26,9 x 3,6
25	33,7 x 2,6	33,7 x 2,6	33,7 x 3,2	33,7 x 3,6
32	42,4 x 2,6	42,4 x 2,6	42,4 x 3,6	42,4 x 4,5
40	48,3 x 2,6	48,3 x 2,6	48,3 x 3,6	48,3 x 5,0
50	60,3 x 3,2	60,3 x 3,2	60,3 x 4,0	60,3 x 8,0



DIMENSIONS

Flanged

- Face-to-face dimensions:** acc. to the tables
 - Flanges:** EN1092-1, (DIN 2501/1972)
 - Raised face:** EN1092-1 – Form B1, (DIN 2526/1975 – Form E)
 - Design variants on request:** ČSN 13 1160, and other
 - Flanges design on request:** grooved form EN 1092-1 – Form C or Form D (previously DIN 2512/1975 – Form F or Form N), recessed or spigot EN 1092-1 – Form E or Form F (previously DIN 2513/1966 – Form V13 eor Form R13), lens shaped joint type DIN 2698
- Other flanges design variants on your request**



Dimensions in mm

Nominal size	Face-to-face dimension	PN 63							PN 100						
		Number of holes	Hole diameter	Bolt circle	Flanges diameter	Flange thickness	Raised face	Weight approx.	Number of holes	Hole diameter	Bolt circle	Flanges diameter	Flange thickness	Raised face	Weight approx.
DN	L1	n	ød	øk	øD	b	ød ₄ xf	m [kg]	n	ød	øk	øD	b	ød ₄ xf	m [kg]
20	260	4	18	90	130	22	58x2	4,6	4	18	90	130	22	58x2	4,6
25	260	4	18	100	140	24	68x2	5,1	4	18	100	140	24	68x2	5,2
32	390	4	22	110	155	24	78x2	10,8	4	22	110	155	24	78x2	11,0
40	390	4	22	125	170	26	88x3	11,8	4	22	125	170	26	88x3	12,0
50	390	4	22	135	180	26	102x3	12,3	4	26	135	180	28	102x3	13,6

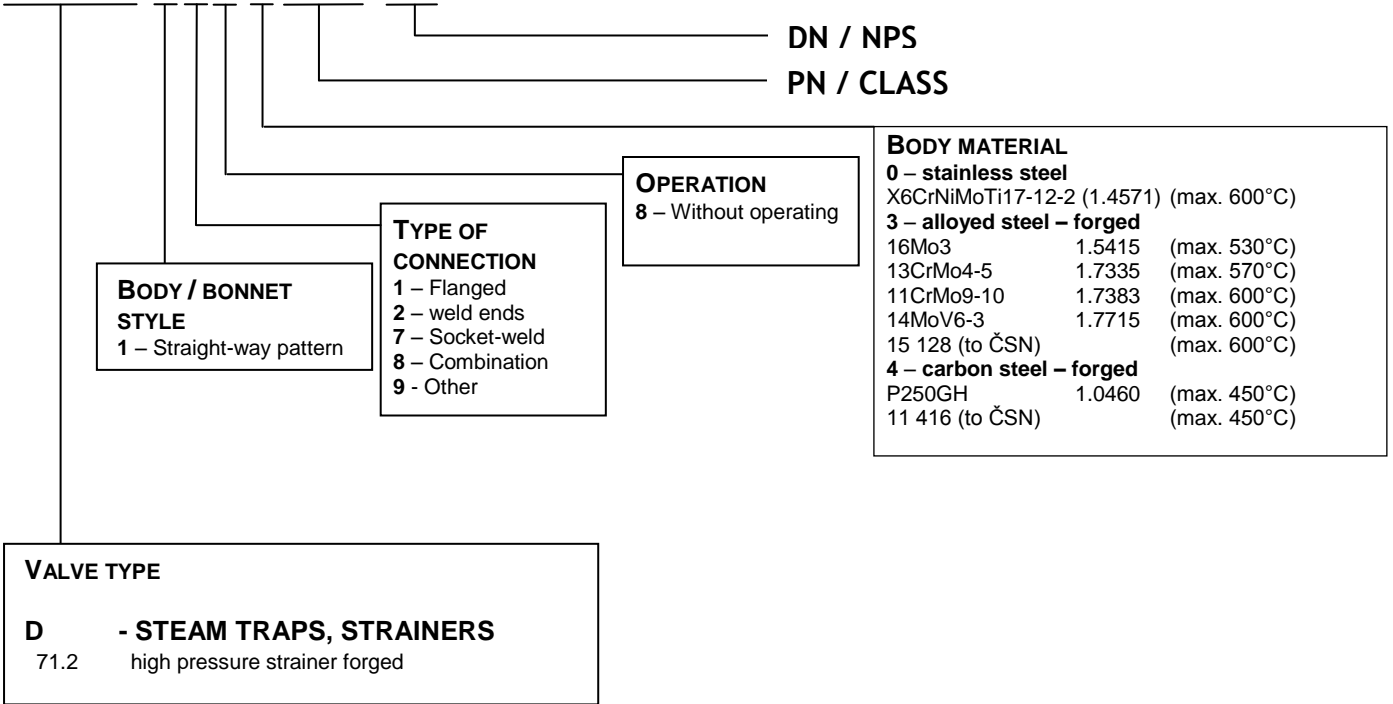
Nominal size	Face-to-face dimension	PN 160							PN 250						
		Number of holes	Hole diameter	Bolt circle	Flanges diameter	Flange thickness	Raised face	Weight approx.	Number of holes	Hole diameter	Bolt circle	Flanges diameter	Flange thickness	Raised face	Weight approx.
DN	L1	n	ød	øk	øD	b	ød ₄ xf	m [kg]	n	ød	øk	øD	b	ød ₄ xf	m [kg]
25	260	4	18	100	140	24	68x2	7,8	4	22	105	150	28	68x2	8,0
40	390	4	22	125	170	28	88x3	16,2	4	26	135	185	34	88x3	16,5
50	390	4	26	145	195	30	102x3	20,2	8	26	150	200	38	102x3	20,5





VALVE DESCRIPTION CODE

D71.2 118-3250-25



VALVE INSTALLATION:

Valve must always be installed in the line position – plug down. Medium correspondence with the arrow marked on the valve body. Cleaning strainer basket and strainer insert at every shut-down.

During the installation and use of the valve following points have to be respected:

- Maximum working parameters mustn't exceed the maximum values from the table above.
- Medium has to be in correspondence with the corrosive resistance of the valve
- The valve must not be mechanical damaged during its service life

Duration of service life depends on regular maintenance.



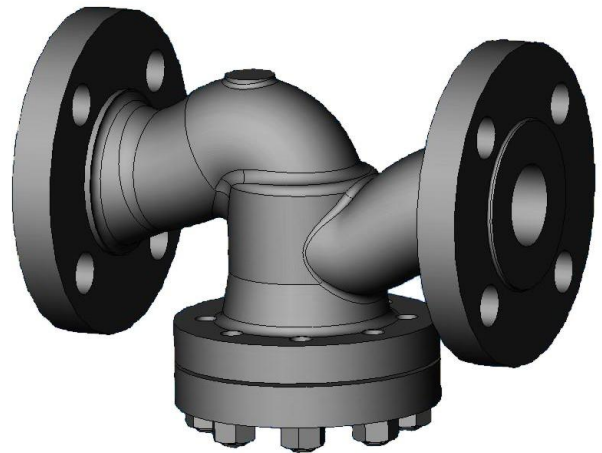


High-pressure strainer D30

PN 63-160, DN 50 – 150, T_{max}: 550°C

High-pressure strainer D30 with flanges or butt weld ends, with non-asbestos gasket
Meets the requirements of **PED 97/23/EC**.

- THANKS TO CONVENIENT ACCESS AND FLAT SEAT DESIGN
- **CUSTOMER RELATED SOLUTION** – DESIGN VARIANTS AND MATERIALS COMBINATION ON REQUEST, DIFFERENT CONNECTION TYPES



BASIC PARAMETERS

TYPE	High-pressure strainer D30	
PN	63, 100, 160	
DN	50, 65, 80, 100, 125, 150	
APPLICATION	Water, steam, gas, oil, crude oil products, non-aggressive substances	
OPERATING TEMPERATURE [°C]	-10 ÷ 450	-10 ÷ 550
BODY MATERIALS	GP240GH (1.0619)	G17CrMo5-5 (1.7357)
OTHER MATERIALS ON REQUEST	42 2643, 42 2714, 42 2744 (to ČSN 42 00006), GX5CrNiMo19-11-2 (1.4408) and other	
CONNECTION	Butt weld ends, flanged, EN, ČSN, DIN	
FACE-TO-FACE DIMENSIONS	Butt weld ends acc to EN 12982, DIN 3202 or customers request Flanged acc. to EN 558	
DESIGN	High-pressure strainer: <ul style="list-style-type: none"> ▪ straight – way pattern ▪ drain plug 	<ul style="list-style-type: none"> ▪ mesh – standard range 23 to 600 meshes/inch ▪ with non asbestos gasket ▪ testing acc to. DIN 3230-3 other on request
BASIC DESIGN OPTIONS	<ul style="list-style-type: none"> ▪ Other designs of flanged and Butt-weld ends on your request Weld on connection branch from different forged materials	<ul style="list-style-type: none"> ▪ Other testing requirements on request ▪ Delivery according to AD 2000 Merkblatt A4, TRD 110 and other standards on request

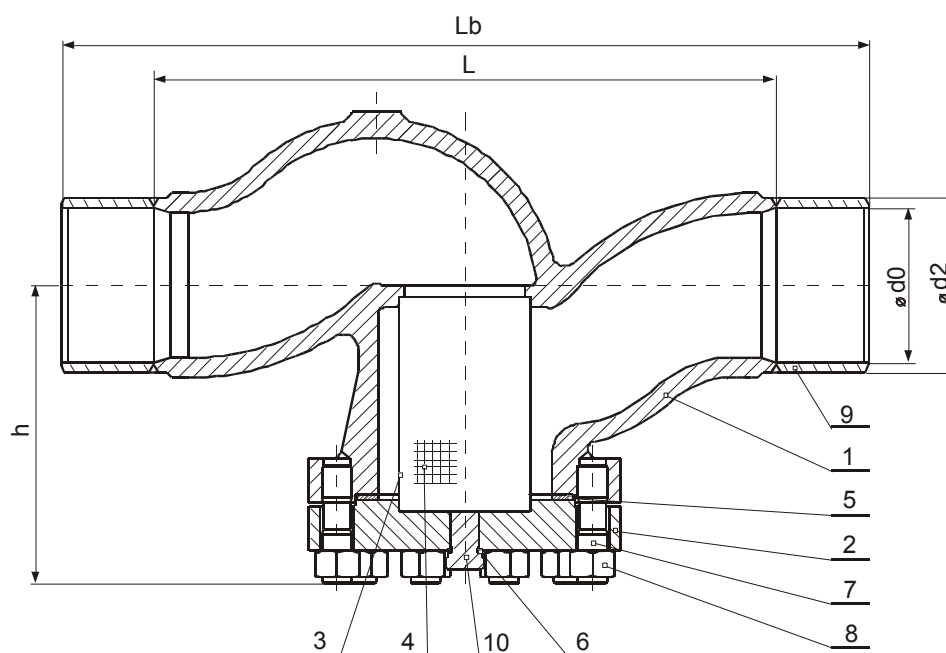
* We reserve the right to make design changes without any previous announcement.

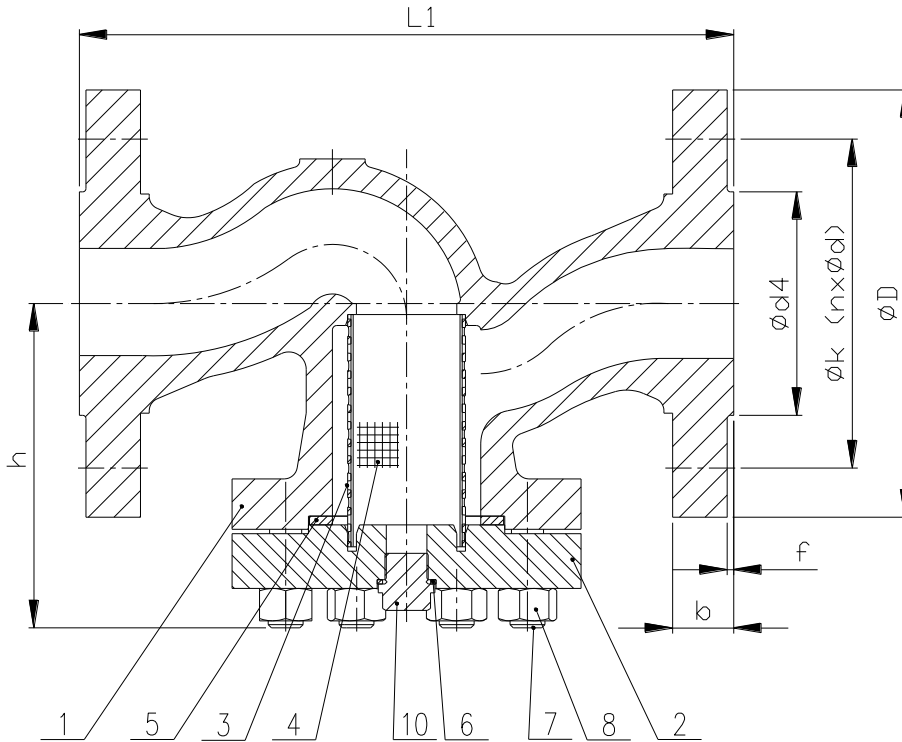


PRESSURE-TEMPERATURE-RATINGS

Material	PN	Admissible operating pressure PS [bar] at operating temperature TS [°C]																		
		-50	-10	50	100	150	200	250	300	350	400	450	475	500	510	520	530	540	550	575
GP240GH (1.0619)	63	-	63	63	59	55	48	45	41	38	36	35	-	-	-	-	-	-	-	-
	100	-	100	100	93	87	76	71	64	60	58	55	-	-	-	-	-	-	-	-
	160	-	160	160	149	136	124	113	103	96	92	89	-	-	-	-	-	-	-	-
G17CrMo5-5 (1.7357)	63	-	63	63	63	63	63	62	57	53	51	48	47	38	33	26	22	22	22	22
	100	-	100	100	100	100	100	98	91	84	80	76	75	61	52	42	35	35	35	35
	160	-	160	160	160	160	160	160	160	160	152	146	139	127	118	97	79	62	46	35

MATERIALS:





Pos.	Part	Material	
1	Body	GP240GH (1.0619)	G17CrMo5-5 (1.7357)
2	Cover	13CrMo4-5 (1.7335)	
3, 4	Strainer	X5CrNi18-10 (1.4301)	
5	Gasket	ST/Isoplan	
6	Gasket	Grafit	
7	Bolt	21CrMoV5-7 (1.7709)	
8	Hex nut	25CrMo4 (1.7218)	21CrMoV5-7 (1.7709)
9	Branch	P250GH; 16Mo3 (1.0460; 1.5415)	16Mo3; 13CrMo4-5 (1.5415; 1.7335)
10	Plug	21CrMoV5-7 (1.7709)	

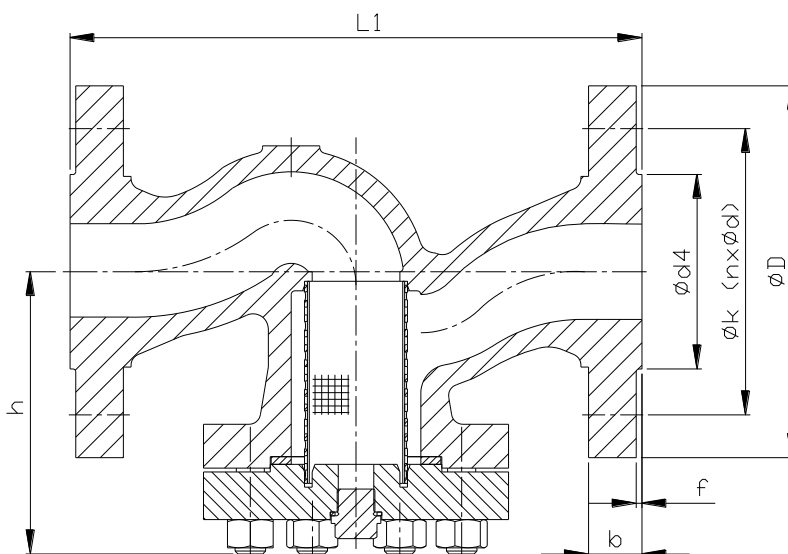


VALVE DIMENSIONS:

Flanged

- Face-to-face dimensions:** EN 558 – line 2
- Flanges:** EN 1092-1 (DIN 2501/1972)
- Raised face:** EN 1092-1 – Form B1 (previously DIN 2526/1975 – Form E)
- Design variants on request:** ČSN 13 1160, and other
- Flanges design on request:** grooved or tongue type EN 1092-1 – Form C or Form D (previously DIN 2512/1975 – Form F or Form N), recessed or spigot type EN 1092-1 – Form E or Form F (previously DIN 2513/1966 – Form V13 or Form R13), etc.

Other flanges design variants on your request.



Nominal pressure	Nominal size	Face-to-face	Centre-to-top-height	Number of bolt holes	Bolt hole diameter	Bolt pitch circle	Flange	Flange thickness	Raised face	Weight appr.
PN	DN	L1 [mm]	h [mm]	n	ød [mm]	øk [mm]	øD [mm]	b [mm]	ød4xf [mm]	m [kg]
63	50	300	150	4	22	135	180	26	102x3	24
	65	340	175	8	22	160	205	26	122x3	35
	80	380	200	8	22	170	215	28	138x3	42
	100	430	225	8	26	200	250	30	162x3	63
	125	500	240	8	30	240	295	34	188x3	87
100	150	550	275	8	33	280	345	36	218x3	140
	50	300	150	4	26	145	195	28	102x3	26
	65	340	175	8	26	170	220	30	122x3	39
	80	380	200	8	26	180	230	32	138x3	49
	100	430	225	8	30	210	265	36	162x3	74
160	125	500	240	8	33	250	315	40	188x3	101
	150	550	275	12	33	290	355	44	218x3	144
	50	300	150	4	26	145	195	30	102x3	28
	65	340	175	8	26	170	220	34	122x3	43
	80	380	200	8	26	180	230	36	138x3	53
160	100	430	225	8	30	210	265	40	162x3	78
	125	500	240	8	33	250	315	44	188x3	105
	150	550	275	12	33	290	355	50	218x3	149





VALVE DIMENSIONS

Weld ends

Face-to-face dimensions with out connect. branches:

see the table (EN 12982/65; DIN 3202/2 – S3, DN50=260mm)

Face-to-face dimensions with connection branches:

as per table on your request

Weld ends:

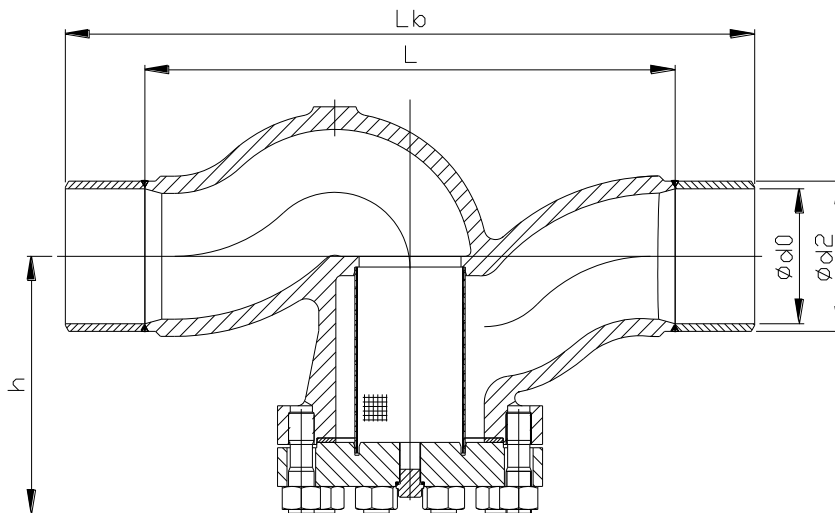
DIN 3239 – Part 1

Groove form:

DIN 2559 – Sheet 1, Form 22

Socket weld:

B16.11. DIN 3239-2.



Nominal size	Face-to-face dimension	Face-to-face dimension with branches	Butt-weld ends acc. to DIN 3239-1 Groove forms acc. to DIN 2559 – Sheet 1, Form 22				Pipe dimension			Weight approximated m [kg]		
			PN 63, 100	PN 63	PN100	PN160	PN 63	PN100	PN160	PN 63	PN100	PN160
DN	L	Lb	ød ₂	ød ₀	ød ₀	ød ₀						
50	260	400	61	54	54	52,5	60,3x3,2	60,3x3,2	60,3x4	24	25	25
65	340	480	77	69	69	65	76,1x3,6	76,1x3,6	76,1x5,6	36	36	37
80	380	520	90	81	81	76,5	88,9x4,0	88,9x4,0	88,9x6,3	49	49	50
100	430	570	115	104	104	98,5	114,3x5,0	114,3x5,0	114,3x8	71	71	72
125	500	650	141	130,5	127	120,5	139,7x4,5	139,7x6,3	139,7x10	84	90	92
150	550	710	170	156,5	154	144,5	168,3x5,6	168,3x7,1	168,3x12,5	118	129	131

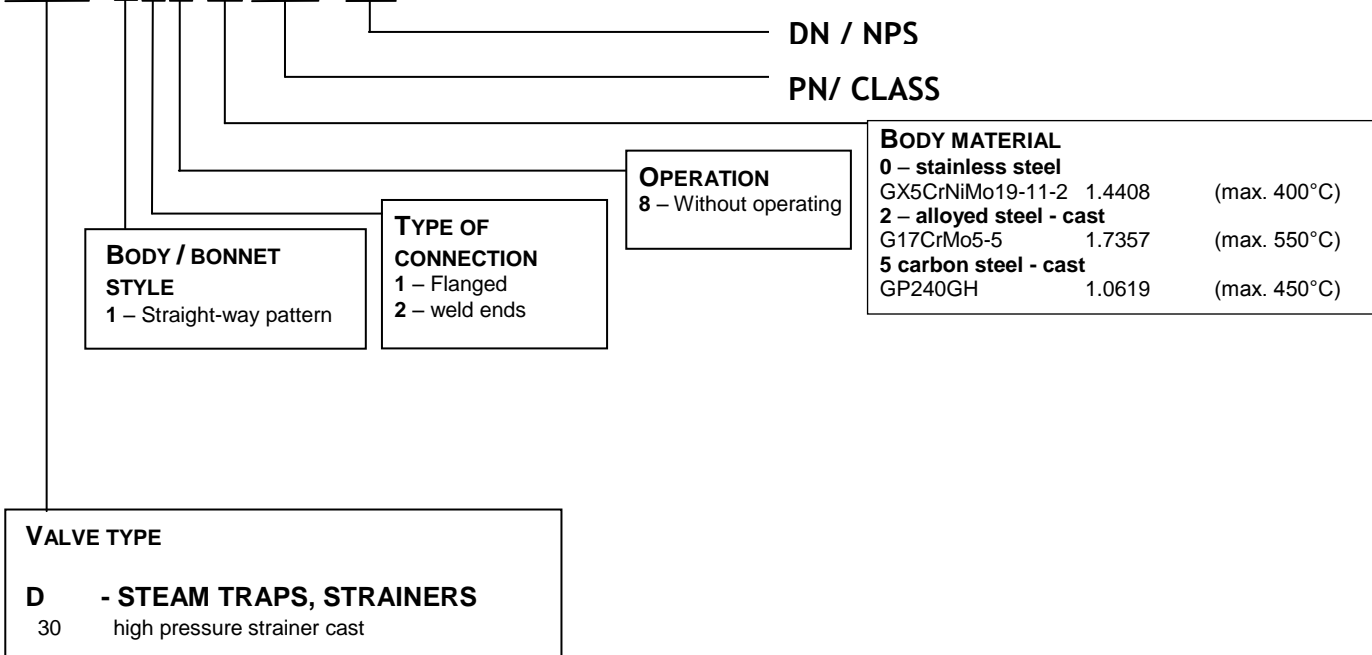
Note: Standard design without connection branches.





VALVE DESCRIPTION CODE

D30 118-2100-50



VALVE INSTALLATION:

Valve must always be installed in the line position –plug down. Medium - correspondence with the arrow marked on the valve body. During the installation and use of the valve following points have to be respected:

- Maximum working parameters mustn't exceed the maximum values from the table above.
- Right function and service life duration of the valve depends on presence of impurities in the medium.
- Medium has to be in correspondence with the corrosive resistance of the valve
- The valve must not be mechanical damaged during its service life

Duration of service life depends on regular maintenance.

