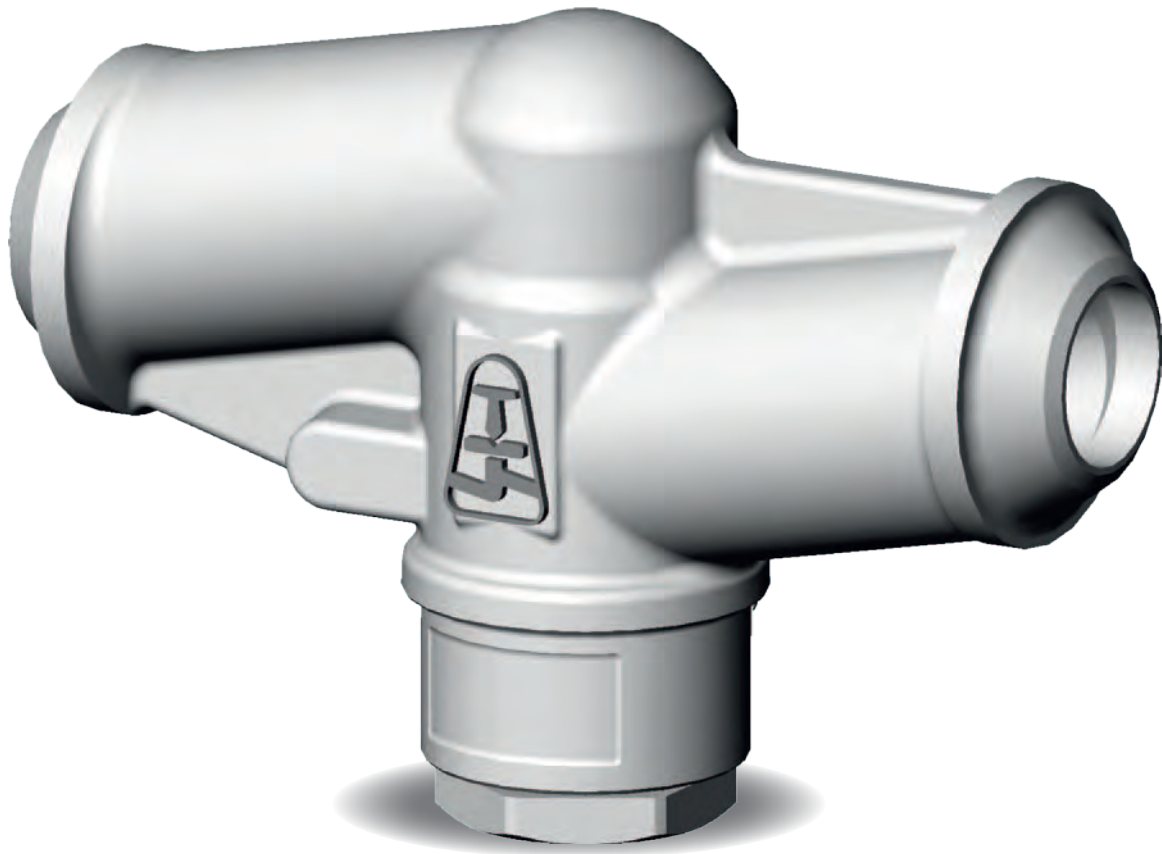


HIGH-PRESSURE STRAINER D71.2

PN 63–250; DN 20–65; T_{MAX}: 600 °C



HIGH-PRESSURE STRAINER D71.2

APPLICATION

- steam, water, gas, oil, petroleum products, aggressive and non-aggressive substances

CONNECTION

- weld ends, flanged, socket weld, combination

OPERATION

- without operation

DESCRIPTION

- double-layer screen from technical fabric with carrying cage (stainless steel)
- straight – way pattern
- mesh – standard 56 meshes/cm² (min. 12, max. 500 meshes/cm²)
- complies with the requirements of the directive 2014/68/EU
- testing is carried out according to standard EN 12266-1; part 2

BASIC DESIGN OPTIONS

- delivery according to TRD 201 on request

PRESSURE-TEMPERATURE-RATINGS FOR DN 10- 50

Material	PN	Admissible operating pressure PS [bar] at operating 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	Admissible operating pressure PS [bar] at operating 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)	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	160	144	140	133	128	102	83,2	68,8	53,8	43,2	26,6	-	-
	250	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	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	250	225	215	205	200	160	140	120	105	90,0	65,0	60,0	46,0
X6CrNiMo- Ti17-12-2 (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) Use of strainer above 400 °C only for media without risk of intercrystalline corrosion

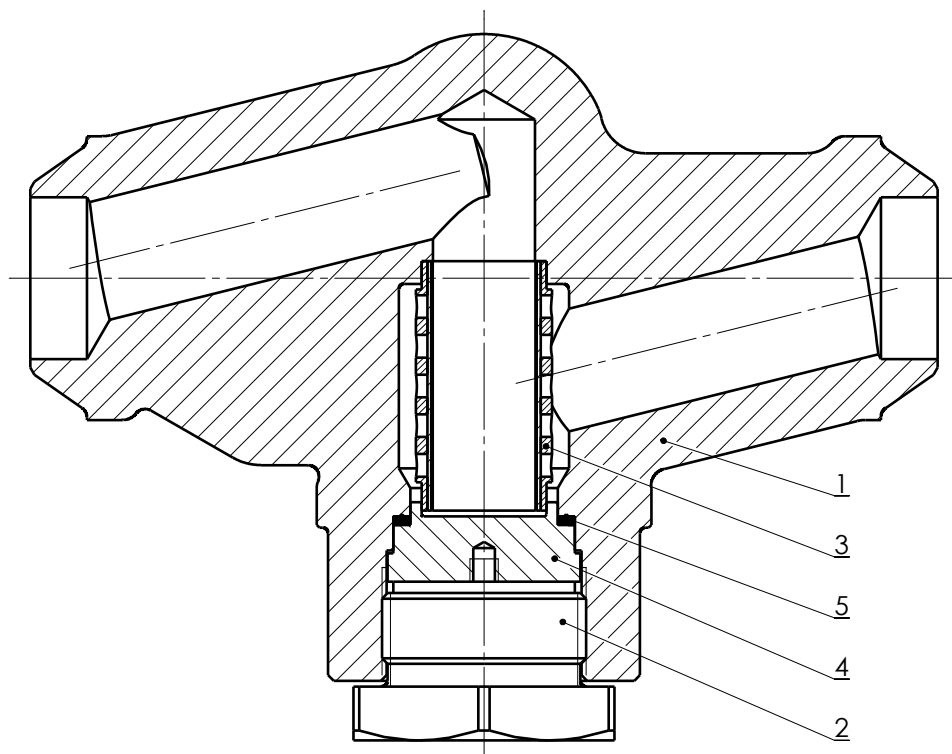
PRESSURE-TEMPERATURE-RATINGS FOR DN 65

Material	PN	Admissible operating pressure PS [bar] at operating 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	Admissible operating pressure PS [bar] at operating 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)	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	
X6CrNiMo- Ti17-12-2 (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) Use of strainer above 400 °C only for media without risk of intercrystalline corrosion

USED 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	X6CrNiTi18-10 (1.4541)					
4	Cover	X20Cr13 (1.4021)	X22CrMoV12-1 (1.4923)				X6CrNiMoTi17-12-2 (1.4571)
5	Gasket	Graphite					

1) Use the strainer above 400 °C only for media without risk of intercrystalline corrosion

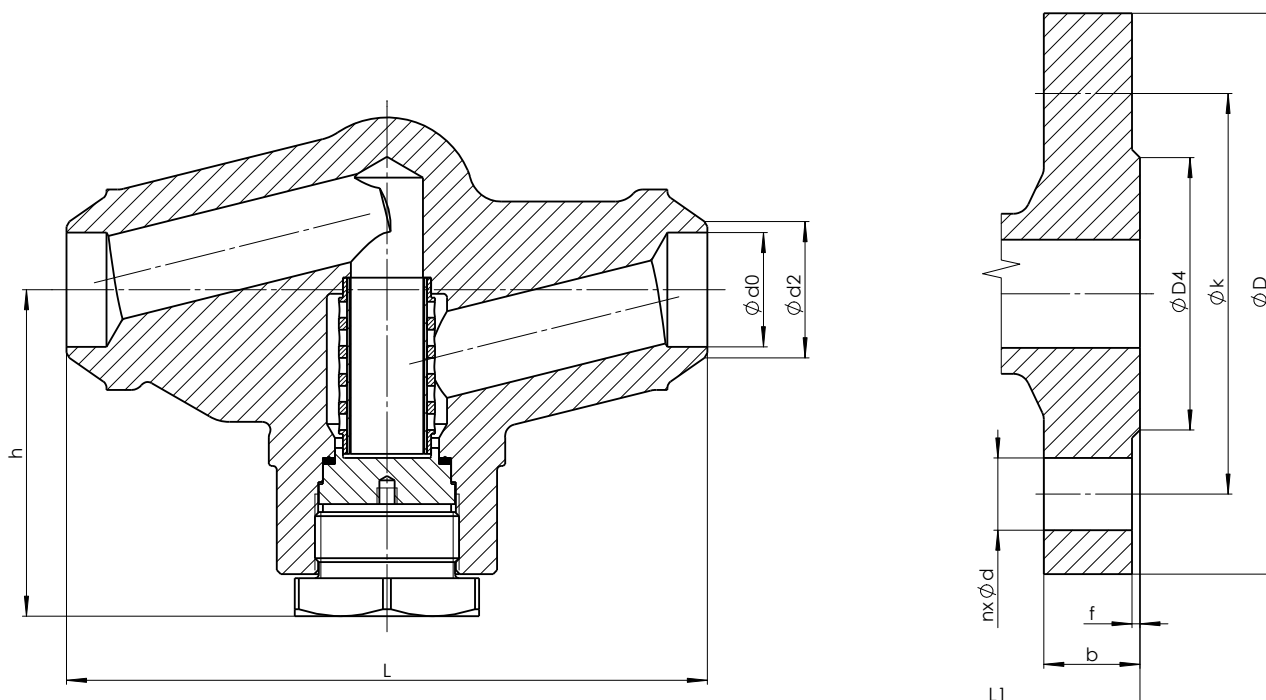
VALVE DIMENSIONS

1. Weld ends, socket weld

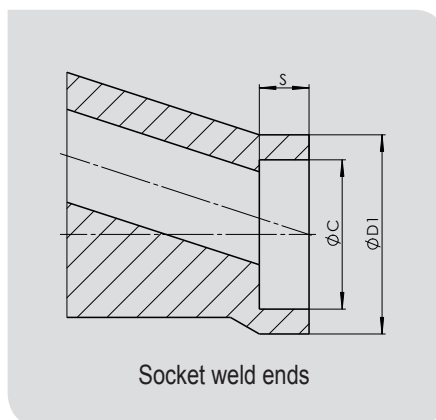
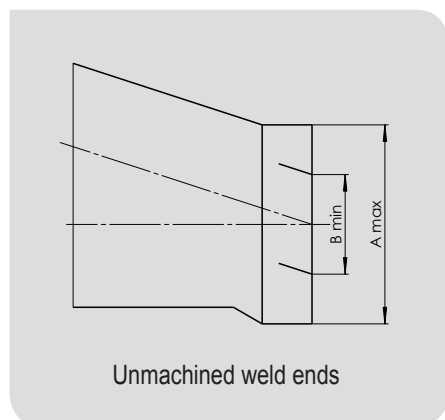
Face-to-face dimensions: as per table
 Weld ends: EN 12627 (on request according to invalid standard DIN 3239 – part 1)
 Groove form: ISO 9692-1 (on request according to invalid standard DIN 2559 – sheet 1 – form 22 EN)
 Socket weld: ASME B16.11, DIN 3239 – part 2

2. Flanged

Face-to-face dimensions: as per table
 Flanged: EN 1092-1, (DIN 2501/1972) sealing bar – Form B1
 Other variants at the customer's request.



WELDING ENDS



WELDING DESIGN

Nominal pressure	Nominal size	Face-to-face	Centre-to-top	Weld ends ¹⁾		Pipe dimensions	Socket weld acc. to B16.11 or DIN 3239-2			Dimension of unmachined weld ends		Approximate weight
				d2	d0		ØD1 -0,5	ØC +0,2	smin	Amax	Bmin	
63	20	160	82	28	22,0	26,9x2,3	48	27,5	12,7	50	19	2,6
	25	160	82	34	28,5	33,7x2,6	48	34,5	12,7	50	24	2,6
	32	250	108	43	37,0	42,4x2,6	76	43	12,7	75	29	7,4
	40	250	108	49	43,0	48,3x2,6	76	49	12,7	75	35	7,4
	50	250	108	61	54,0	60,3x3,2	76	61	15,9	75	35	7,4
	65	340	-	77	69	76,1x3,6	102	74	16	100	48	-
100	20	160	82	28	22,0	26,9x2,3	48	27,5	12,7	50	19	2,6
	25	160	82	34	28,5	33,7x2,6	48	34,5	12,7	50	24	2,6
	32	250	108	43	37,0	42,4x2,6	76	43	12,7	75	29	7,4
	40	250	108	49	43,0	48,3x2,6	76	49	12,7	75	35	7,4
	50	250	108	61	54,0	60,3x3,2	76	61	15,9	75	35	7,4
	65	340	-	77	69	76,1x3,6	102	74	16	100	48	-
160	20	160	82	28	22,0	26,9x2,3	48	27,5	12,7	50	19	2,6
	25	160	82	34	27,5	33,7x3,2	48	34,5	12,7	50	24	2,6
	32	250	108	43	36,0	42,4x3,6	76	43	12,7	75	29	7,4
	40	250	108	49	41,0	48,3x3,6	76	49	12,7	75	35	7,4
	50	250	108	61	51,3	60,3x4,5	76	61	15,9	75	35	7,4
	65	340	-	77	65	76,1x5,6	102	74	16	100	48	-
250	20	160	82	28	20,0	26,9x3,6	48	27,5	12,7	50	19	2,6
	25	160	82	35	26,5	33,7x3,6	48	34,5	12,7	50	24	2,6
	32	250	108	43	34,0	42,4x4,5	76	43	12,7	75	29	7,4
	40	250	108	49	38,5	48,3x5,0	76	49	12,7	75	35	7,4
	50	250	108	61	45,0	60,3x8,0	76	61	15,9	75	35	7,4
	65	340	-	77	59,5	76,1x8,8	102	74	16	100	48	-

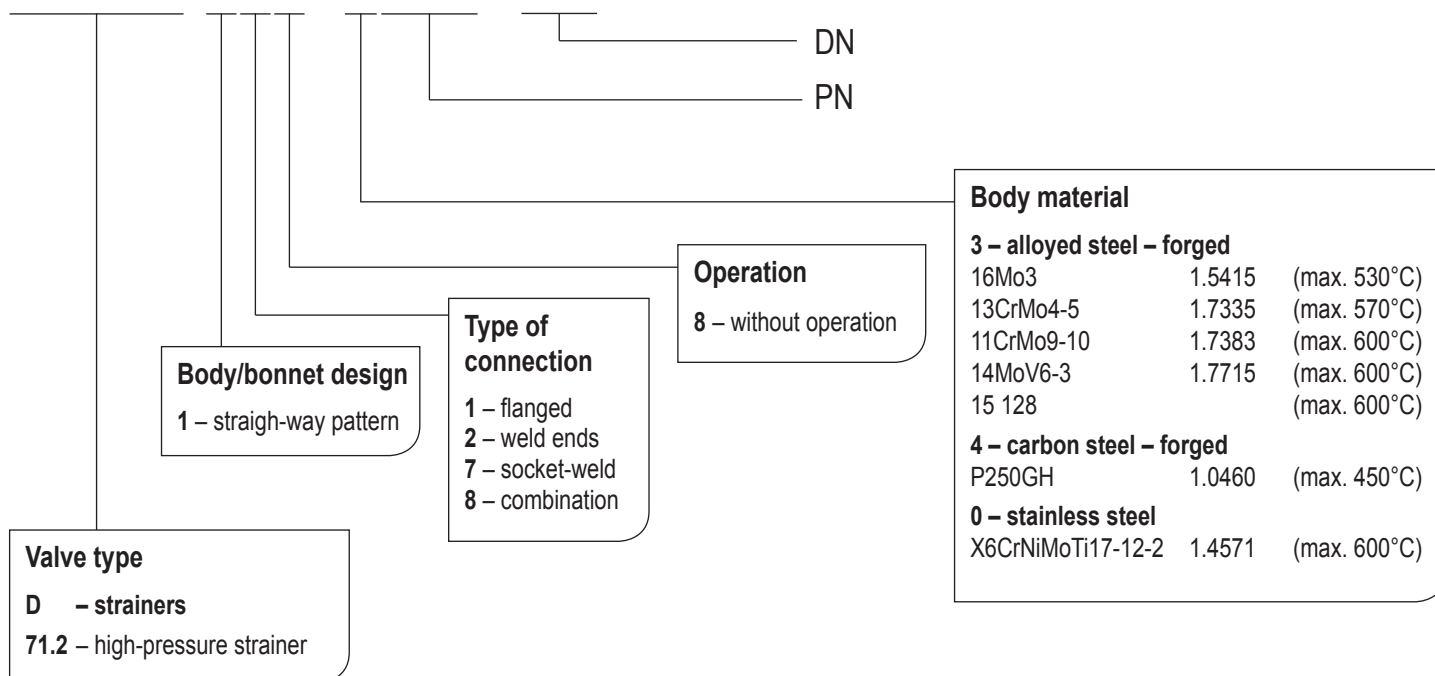
1) Dimensions d0 is based on the internal diameter of the pipes
Missing data in the chart on request.

FLANGE DESIGN

Nominal pressure	Nominal size	Face-to-face	Number of holes	Hole	Pitch circle	Flange diameter	Flange thickness	Sealing bar	Approximate weight
PN	DN	L _f	n	ød	øk	øD	b	ød _{xf}	m [kg]
63	20	260	4	18	90	130	22	58x2	6,6
	25	260	4	18	100	140	24	68x2	6,6
	32	390	4	22	110	155	24	78x2	13,8
	40	390	4	22	125	170	26	88x3	15,5
	50	390	4	22	135	180	26	102x3	19,0
	65	540	8	22	160	205	26	122x3	-
100	20	260	4	18	90	130	22	58x2	6,6
	25	260	4	18	100	140	24	68x2	6,6
	32	390	4	22	110	155	24	78x2	14,0
	40	390	4	22	125	170	26	88x3	15,7
	50	390	4	26	135	180	28	102x3	19,3
	65	540	8	26	170	220	30	122x3	-
160	25	260	4	18	100	140	24	68x2	7,8
	40	390	4	22	125	170	28	88x3	16,2
	50	390	4	26	145	195	30	102x3	20,2
	65	540	8	26	170	220	34	122x3	-
250	25	260	4	22	105	150	28	68x2	8,0
	40	390	4	26	135	185	34	88x3	16,5
	50	390	8	26	150	200	38	102x3	20,5
	65	540	8	26	180	230	42	122x3	-

VALVE DESCRIPTION CODE

D71.2 118-3250-25



VALVE INSTALLATION

Strainer must be installed horizontally with the plug down. The flow direction of the working fluid must coincide with the direction of the arrow on the valve body. Cleaning strainer and screen at every outage of the pipeline route. It is necessary to consider the following points during assembly and operation:

- operating conditions must comply with operating parameters of the strainer
- the medium used must be comply with the corrosion resistance of the strainer material
- use of mechanically damaged strainer during the operation is prohibited