



Strainer C09.2, C09.3

PN 10 - 40, DN 15 – 200, T_{max}: 400°C

Strainer C09.2, C09.3 (Y – pattern) with flanges or butt weld ends, with non-asbestos gasket
Meets the requirements of **PED 97/23/EC**, EN 13 709.

- **EASY MAINTENANCE**
- **CUSTOMER RELATED SOLUTION** – DESIGN VARIANTS AND MATERIALS COMBINATION ON REQUEST, DIFFERENT CONNECTION TYPES, CORROSION RESISTANT MATERIALS FOR AGGRESSIVE FLUIDS



BASIC PARAMETERS

TYPE	Strainer C09.2, C09.3				
PN	10, 16, 25, 40				
DN	10, 15, 20, 25, 32, 40, 50, 65, 80, 100, 125, 150, 200				
APPLICATION	Water, steam, aggressive and non-aggressive substances				
OPERATING TEMPERATURE [°C]	-50 ÷ 250 1)	-50 ÷ 250	-50 ÷ 300	-10 ÷ 400	-40 ÷ 300
BODY MATERIALS	GX 5 CrNiMo 19-11-2 (1.4408)	GX 5 CrNi 19-10 (1.4308)	GS 21 Mn 5 (1.1138)	GP 240 GH (1.0619)	G 20 Mn 5 (1.6220)
OTHER MATERIALS ON REQUEST	42 2643, 42 2744 (to 42 0006)				
CONNECTION	Butt weld ends, flanged, EN, ČSN, DIN				
FACE-TO-FACE DIMENSIONS	Butt weld ends acc. to manufacturers standard or customers request Flanged acc. to EN 1092-1				
OPERATION					
DESIGN	Lift check valve: <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 		<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.

1) Application for temperature from - 196 °C to +250 °C on your request



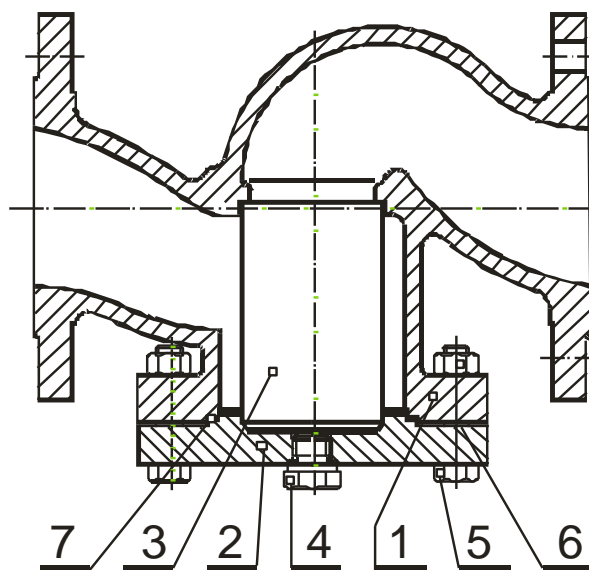
PRESSURE-TEMPERATURE-RATINGS

Material	PN	Admissible operating pressure PS [bar] at operating temperature TS [°C]														
		-60	-50	-10	50	100	150	200	250	300	350	400	450	475	500	510
GX 5 CrNiMo 19-11-2 (1.4408)	10	10	10	10	10	9,3	8,4	7,8	7,3	-	-	-	-	-	-	-
	16	16	16	16	16	14,9	13,5	12,4	11,7	-	-	-	-	-	-	-
	25	25	25	25	25	23,3	21,1	19,4	18,3	-	-	-	-	-	-	-
	40	40	40	40	40	37,3	33,8	31,1	29,3	-	-	-	-	-	-	-
GX 5 CrNi 19-10 (1.4308)	10	-	10	10	9,3	8,4	7,6	6,9	6,4	-	-	-	-	-	-	-
	16	-	16	16	14,9	13,5	12,1	11	10,3	-	-	-	-	-	-	-
	25	-	25	25	23,3	21,1	18,9	17,2	16,1	-	-	-	-	-	-	-
	40	-	40	40	37,3	33,8	30,2	27,6	25,8	-	-	-	-	-	-	-
GS 21 Mn 5 (1.1138)	10	-	10	10	10	9,2	8,7	7,9	7,2	6,5	-	-	-	-	-	-
	16	-	16	16	16	14,8	14	12,8	11,8	10,8	-	-	-	-	-	-
	25	-	25	25	25	23	21	19,2	18,2	17,2	-	-	-	-	-	-
	40	-	40	40	40	37	35	32	29,5	27	-	-	-	-	-	-
GP 240 GH (1.0619)	10	-	-	10	10	9,3	8,7	7,8	7,1	6,4	6	5,8	-	-	-	-
	16	-	-	16	16	14,9	13,9	12,4	11,4	10,3	9,6	9,2	-	-	-	-
	25	-	-	25	25	23,3	21,7	19,4	17,8	16,1	15	14,4	-	-	-	-
	40	-	-	40	40	37,3	34,7	30,2	28,4	25,8	24	23,1	-	-	-	-

Material	PN	Admissible operating pressure PS [bar] at operating temperature TS [°C]														
		-40	-10	50	100	150	200	250	300	350	400	450	475	500	510	520
G 20 Mn 5 (1.6220)	10	10	10	10	8,1	7,4	6,3	5,9	5,5	-	-	-	-	-	-	-
	16	16	16	16	13,0	11,8	10,1	9,5	8,8	-	-	-	-	-	-	-
	25	25	25	25	20,3	18,5	15,8	14,8	13,8	-	-	-	-	-	-	-
	40	40	40	40	32,5	29,6	25,3	23,7	22,0	-	-	-	-	-	-	-



MATERIALS:



Pos.	Part	Material				
1	Body	GX 5 CrNiMo 19-11-2 (1.4408)	GX 5 CrNi 19-10 (1.4308)	GS 21 Mn 5 (1.1138)	GP 240 GH (1.0619)	G 20 Mn 5 (1.6220)
2	Cover	GX 5 CrNiMo 19-11-2 (1.4408)	GX 5 CrNi 19-10 (1.4308)	GS 21 Mn 5 (1.1138)	GP 240 GH (1.0619)	G 20 Mn 5 (1.6220)
3	Filter screen	X6CrNiTi18-10 (1.4541)				
4	Plug	X5CrNiMo17-12-2 (1.4401)				
5	Bolt	A2-70				
6	Hex. nut	A2-70				
7	Gasket	PTFE		Graphite		



VALVE DIMENSIONS:

Flanged

Face-to-face dimensions: EN 558

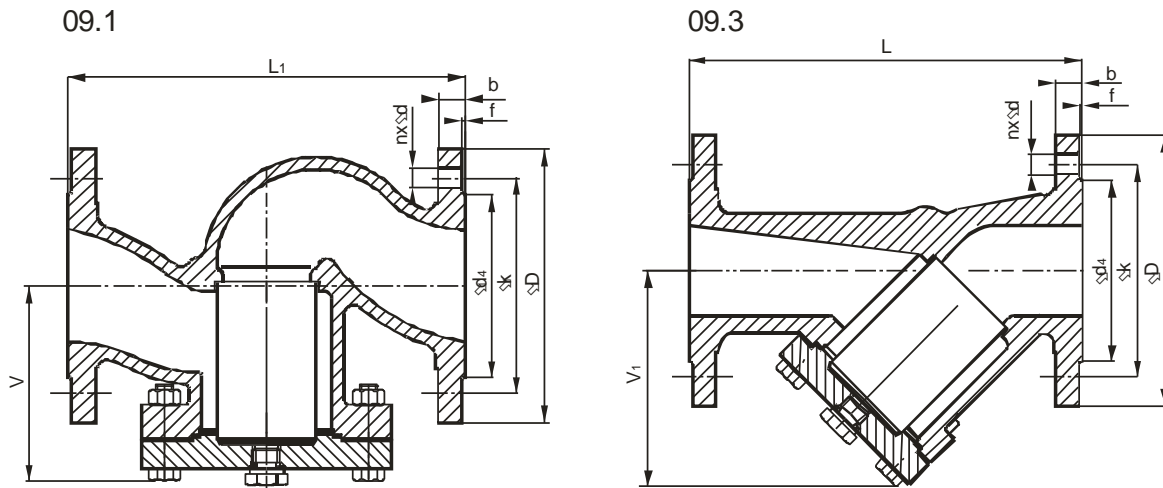
Flanges: EN 1092-1 (DIN 2501/1972)

Raised face: EN 1092-1 – Form B1 (previously DIN 2526/1975 – Form C)

Design variants on request: ČSN 13 1160, DIN 2501, and other

Flanges design on request: grooved or tongue 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 or Form R13), etc.

Other flanges design variants on your request



Nominal pressure	Nominal size	Face-to-face	Centre-to-top-height	Centre-to-top-height	Number of bolt holes	Bolt hole diameter	Bolt pitch circle	Flange	Flange thickness	Raised face	Weight approx.	Weight approx.
PN	DN	L (mm)	V (mm)	V ₁ (mm)	n	ød (mm)	øk (mm)	øD (mm)	b (mm)	ød ₄ x _f (mm)	m (kg)	m ₁ (kg)
10, 16, 25, 40	15	130	70	75	4	14	65	95	16	45x2	2,5	2,5
	20	150	90	90	4	14	75	105	18	58x2	4,5	4,5
	25	160	90	90	4	14	85	115	18	68x2	4,5	4,5
	32	180	100	100	4	18	100	140	18	78x2	7,0	7,0
	40	200	110	115	4	18	110	150	18	88x3	8,0	8,0
10, 16	50	230	125	135	4	18	125	165	18	102x3	12,0	12,0
	65	290	140	155	4	18	145	185	18	122x3	15,0	15,0
	80	310	150	175	8	18	160	200	20	138x3	21,0	21,0
	100	350	180	200	8	18	180	220	20	158x3	29,0	29,0
	125	400	250	290	8	18	210	250	22	188x3	44,0	43,0
25, 40	150	480	290	330	8	22	240	285	22	212x3	64,0	62,0
	50	230	125	135	4	18	125	165	20	102x3	12,0	12,0
	65	290	155	-	8	18	145	185	22	122x3	25,0	-
	80	310	160	-	8	18	160	200	24	138x3	28,0	-
	100	350	180	-	8	22	190	235	24	162x3	40,0	-
	125	400	230	-	8	26	220	270	26	188x3	55,0	-
25	150	480	250	-	8	26	250	300	28	218x3	76,0	-
	200	600	350	-	12	26	310	360	30	278x3	153,0	-
40	200	600	350	-	12	30	320	375	34	285x3	154,0	-

Notice: V, m - C 09.2, V₁, m₁ - C 09.3, missing parameters on your request



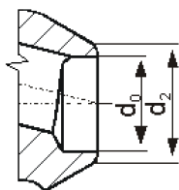
Weld ends

Face-to-face dimensions: acc. to the tables (much like flanged design)
Weld ends: EN 12982 - Part 1
Groove form: DIN 2559 – Sheet 1, Form 22
On your request: ČSN 13 1075, EN 12 627, and other

Nominal size	Face-to-face	Pipe dimension	Butt-weld ends acc. to DIN 3239-1 Groove forms acc. to DIN 2559 – Sheet 1, Form 22		Weight approx.	
		PN 10 -40	PN 10 - 40		PN10, PN16	PN25, PN40
DN	L	TR KR x s	ød ₂	ød ₀	-	1,5
15	130	21,3x2,0	22	17	-	3,0
20	150	26,9x2,3	28	22	-	3,0
25	160	33,7x2,6	34	28,5	-	4,0
32	180	42,4x2,6	43	37	-	4,0
40	200	48,3x2,6	49	43	-	8,0
50	230	60,3x3,2	61	54	10,0	19,0
65	290	76,1x3,6	77	69	15,0	21,0
80	310	88,9x4,0	90	81	22,0	31,0
100	350	114,3x5,0	115	104	34,0	44,0
125	400	139,7x4,5	141	130,5	51,0	61,0
150	480	168,3x5,6	170	156,5	-	125,0
200	600	219,1x7,1	222	204,5	-	1,5

missing parameters on your request

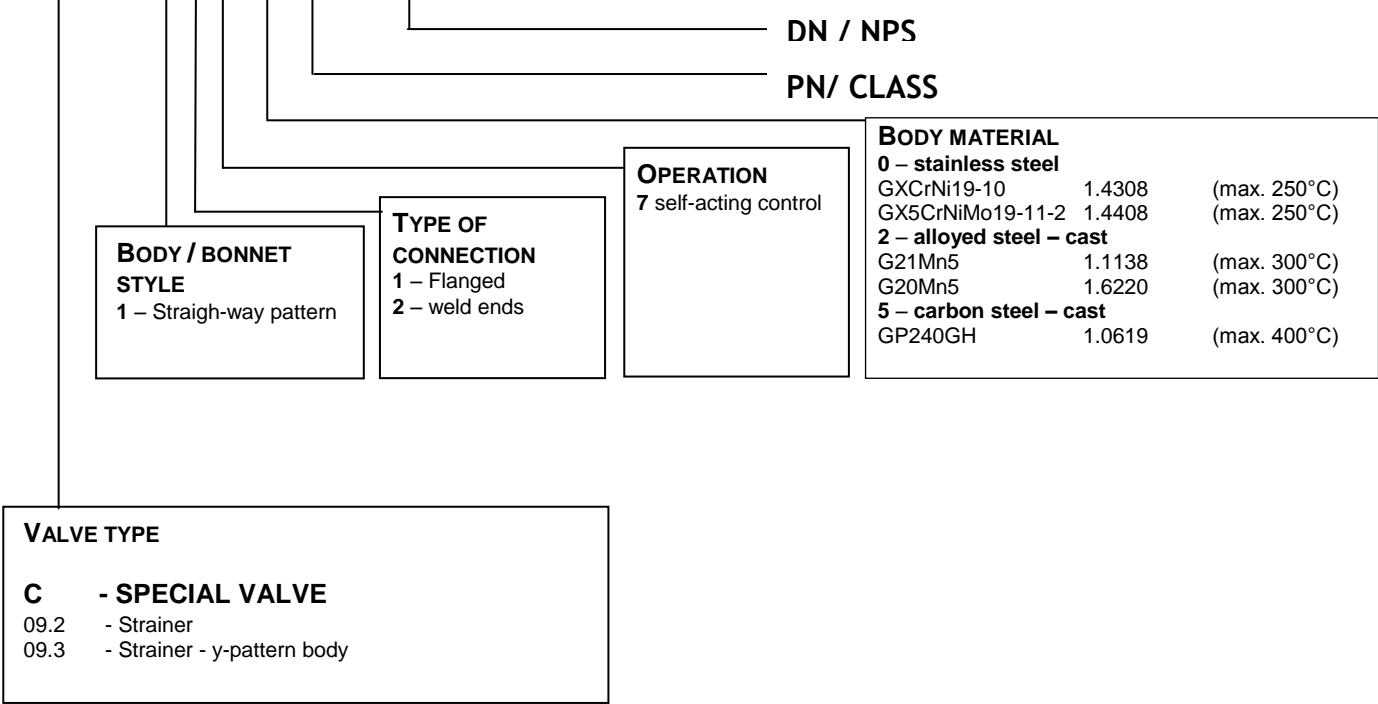
Butt-weld ends





VALVE DESCRIPTION CODE

C09.2 117-540-150



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 strainer. Keep the filter screen clean.
- 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.