



STRAINERS

(Large Size, Steel Plate Housing)

GENERAL SPECIFICATION

GS.No.GCB003-7-E

■ GENERAL

To prevent potential damage to the flowmeter by foreign solids suspended in fluid being metered, it is usually necessary to provide a strainer immediately upstream of the meter.

■ FEATURES

1. Simple design and ease of service.
2. Low pressure loss.
3. Rugged design for long life.

■ SELECTION GUIDE

Select a strainer which best suits your particular application by taking into consideration the following:

1. **Capacity Code 1** : Suggested for light oils or low viscosity liquids below 10 mPa · s.
2. **Capacity Code 2** : Suggested for heavy oils or high viscosity liquids. "Capacity Code 2" strainers are also recommended for applications where fluids are handled at large flowrates, e.g. in offshore acceptance, particularly where a high foreign matter content is expected.
3. Choose a particular strainer with which the pressure loss on the inlet side is normally maintained below 50kPa at the maximum flowrate by referring to the pressure loss curves on page 3.

NOTE: The maximum permissible differential pressure across the strainer is 0.1MPa.

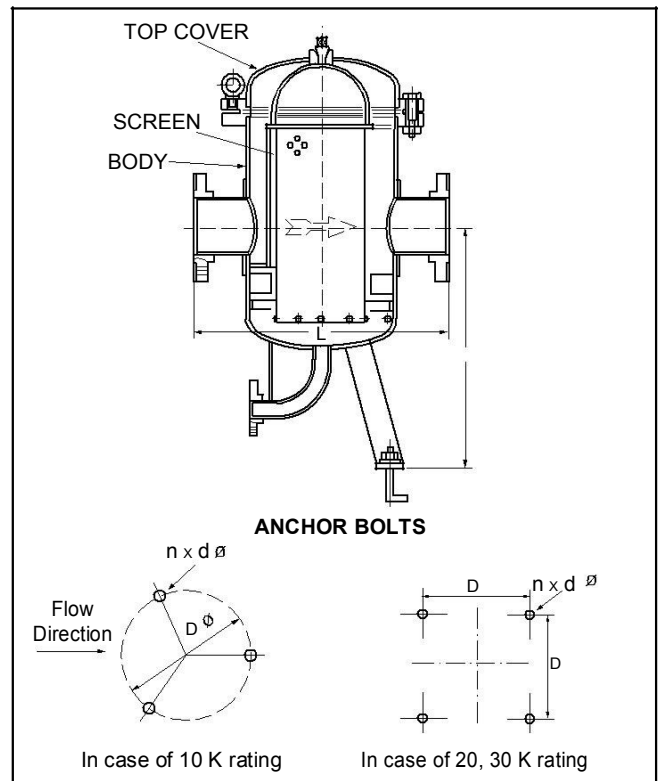
4. Always maintain a stock of replacement strainer screens.

Standard mesh available for our strainers are shown in tables elsewhere. In addition, 100, 80 and 60 mesh nets can also be furnished.

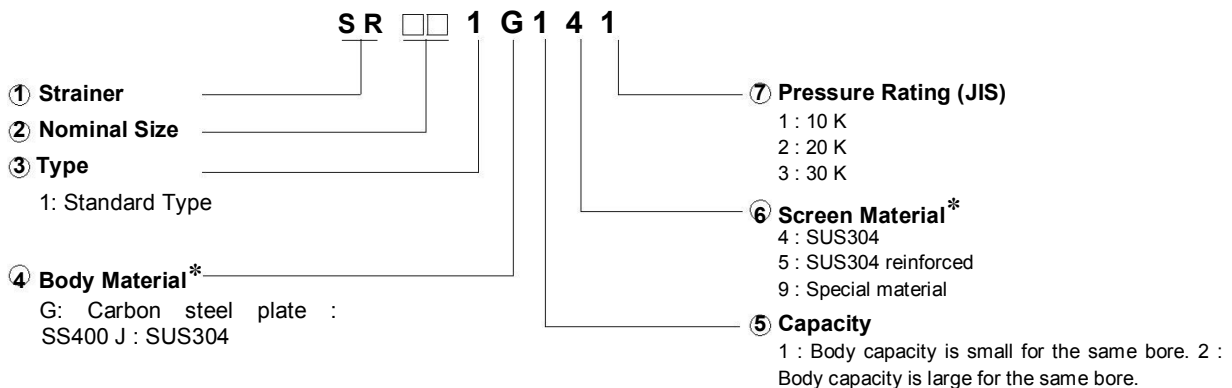
When ordering extra or replacement strainer screen, please specify the strainer type, mesh number and the quantity desired.



Standard Type



■ MODEL CODE NUMBER



■ PRESSURE RATINGS, MATERIALS AND CONNECTING FLANGE RATINGS (Based on JIS)

Pressure Rating	Body Material	Flange Rating	Max. Operating Pressure* MPa
10K	SS400	JIS 10K RF	1.18
		ANSI/JPI 150 RF	1.37
20K	SS400	JIS 20K RF	1.96
		ANSI/JPI 150 RF	1.69
30K	SS400	JIS 30K RF	2.94
		ANSI/JPI 300 RF	2.94

*Note : Reference temperature 120°C

■ GENERAL SPECIFICATIONS

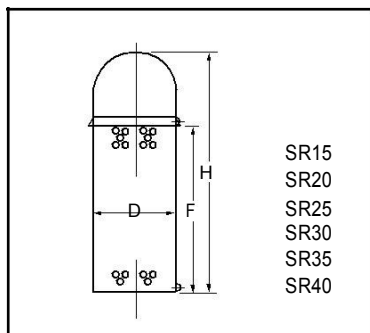
(1) Capacity Code : 1

Nominal Size		Max. Operating Pressure MPa	Screen Material		Mesh	Applicable Flowmeter Size	Flange-to-Flange Dim. L, mm	Center Height H, mm	Anchor Bolt Dø x n x dø	Approx. Mass kg
mm	inch		SUS304	SUS304 Reinforced						
200	8	1.18	SR201G141	SR201G151	30	32, ③	680	530	400x3x22	153
		1.96	SR201G142	SR201G152			850	770	300x4x22	340
		2.94	SR201G143	SR201G153			850	770	300x4x22	410
250	10	1.18	SR251G141	SR251G151	25	④	850	620	540x3x22	300
		1.96	SR251G142	SR251G152			1000	770	400x4x22	590
		2.94	SR251G143	SR251G153			1000	770	400x4x22	800
300	12	1.18	SR301G141	SR301G151	25	34	1000	740	620x3x22	420
		1.96	SR301G142	SR301G152			1100	900	450x4x22	750
		2.94	SR301G143	SR301G153			1100	900	450x4x22	1050
350	14	1.18	SR351G141	SR351G151	25	65	1150	880	800x3x22	780
		1.96	SR351G142	SR351G152			1300	900	500x4x22	1070
400	16	1.18	SR401G141	SR401G151	25	65	1500	1050	1000x3x22	1300
		1.96	SR401G142	SR401G152			1500	1050	630x4x22	1580

(2) Capacity Code : 2

Nominal Size		Max. Operating Pressure MPa	Screen Material		Mesh	Applicable Flowmeter Size	Flange-to-Flange Dim. L, mm	Center Height H, mm	Anchor Bolt Dø x n x dø	Approx. Mass kg
mm	inch		SUS304	SUS304 Reinforced						
150	6	1.18	SR151G241	SR151G251	40	31	680	530	400x3x22	145
		1.96	SR151G242	SR151G252			30	③② ③③	850	770
		2.94	SR151G243	SR151G253	850	770			300x4x22	380
200	8	1.18	SR201G241	SR201G251	25	32, 33	850	620	540x3x22	270
		1.96	SR201G242	SR201G252			1000	770	400x4x22	570
		2.94	SR201G243	SR201G253			1000	770	400x4x22	770

■ SCREEN SPECIFICATION



Nominal Size	Model	Strainer Screen, mm						Mesh	Ratio of Open Area to Pipe Area
		Diameter (D)	Length (F)		Overall Lgth(H)				
			*①②	*③	*①②	*③			
150	SR15 x2 △○	270	433	433	625	625	30	4.4	
200	SR20 x1 △○	270	433	433	625	625	25	2.5	
200	SR20 x2 △○	345	644	644	865	865	25	5.6	
250	SR25 x1 △○	345	644	644	865	865	25	3.6	
300	SR30 x1 △○	440	805	805	1065	1065	25	4.0	
350	SR35 x1 △○	497	846	—	1131	—	25	3.3	
400	● SR40 x1 △○	345	762	—	892	—	25	3.3	

NOTES: Marked *①, ② correspond with pressure ratings 10 K, 20 K, respectively,
 ○ 3 corresponds with pressure rating 30 K. Marked ● uses two strainer screens.

■ Net Mesh for UF-II Flowmeter

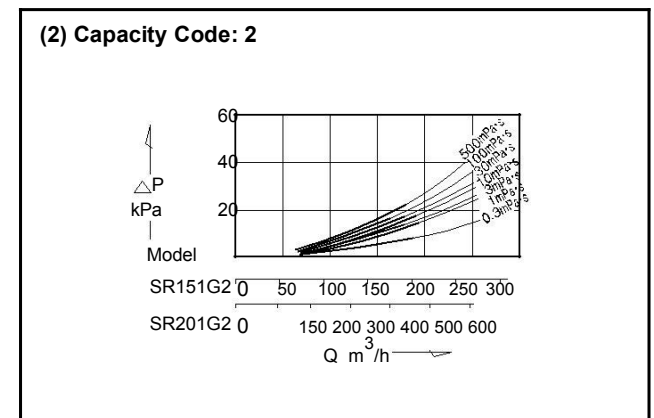
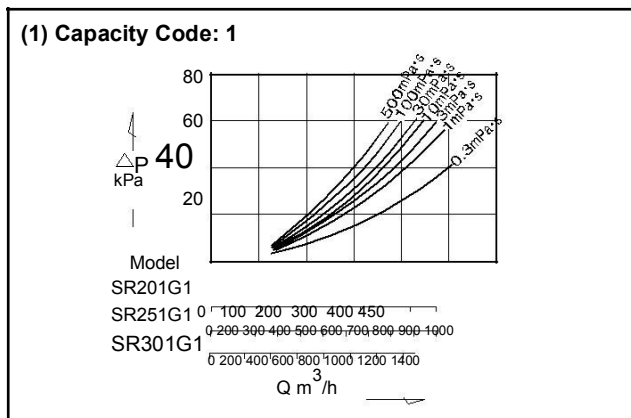
UF-II Meter Size	Nominal Size	Mesh
82	150	30
83	150 200	30
84	200 250	30
85	250 300	25
86	300 350	25
87	350 400	25
88	400 (450)	25

■ Net Mesh for EX TURBINE

Turbine Meter Nom. Size (mm)	Mesh	
	Standard Type	High Viscosity Type
150	40	60
200~400	20	60

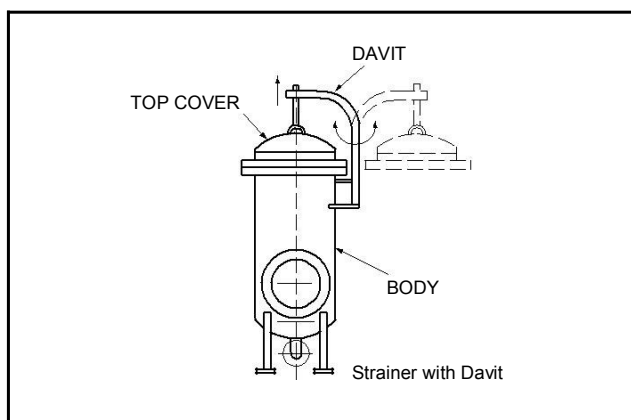
Line velocity thru the strainer must be less than 4~5 m/s.

■ PRESSURE DROP CURVES (standard mesh in place)



■ STRAINERS WITH DAVIT (SEE SKETCH BELOW) CAN ALSO BE SUPPLIED.

(Consult factory.)



■ WHEN MAKING INQUIRIES, PLEASE STATE THE FOLLOWING INFORMATION:

1	Application	<input type="checkbox"/> Acceptance <input type="checkbox"/> Shipping <input type="checkbox"/> Process Control <input type="checkbox"/> Others ()	8	Max. Operating Pressure	_____ MPa
2	Applicable Liquid	_____	9	Max. Operating Temperature	_____ °C
3	Applicable Meter Size	_____	10	Fluid Viscosity	_____ mPa · s
4	Nominal Size	_____ mm	11	Physical and/or Chemical Properties and Quantities of Foreign Solids Contained	
5	Flange Rating	JIS _____ K FF, RF ANSI/JPI _____ RF	12	Description of Location for Installation	(Layout with pump, air eliminator, flowmeter, valves, etc.)
6	Materials	Body _____ Strainer Screen _____	13	Quantity Desired	_____ Units
7	Strainer Net Mesh	_____ Mesh	14	Accessories Desired	Anchor Bolts: Required _____ Not Required _____