

GENERAL SPECIFICATIONS

LARGE BUCKET TYPE STRAINER

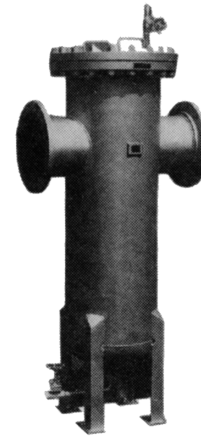


GS-F5020E-01

Overview

In a pipe line, strainers are necessary to filter foreign matters, to protect flowmeters, maintaining measurement accuracy and to keep durability.

We have various types of strainers for your selection according to such operating condition as corrosiveness of fluid, flow rate, viscosity, amount of foreign matters and purposes.



Features

- Wide effective filtering area, minimizing the pressure loss.
- Simple form, highly safe against pressure.
- Strong filtering net against differential pressure (0.29MPa) for the assurance of operation.
- Simple structure for easy operation.

Selection Method

- **Connection Size**
Select the connection size that makes flow rate 5m/s or lower.
- **Capacity Model**
Select the capacity model that makes the pressure loss at max. flow rate 0.05MPa or lower.
- **Pressure Classification**
Select the pressure classification in accordance with max. working pressure and connection size.

Standard Specifications

Applicable Fluid Name	Water, Petroleum etc.	
Max. Working Pressure	Water, Petroleum etc.	
Connection Size	100mm(4B) ~ 500mm(20B)	
Flange Standard	JIS 10K, 20K FF or RF ASME · JPI150, 300RF	
Material	Main Body	SS400, STPG370
	Screen/Frame	SUS304 / SS400
	Packing	Non-asbestos
Screen	Mesh Number	40, 80 Mesh
	Difference Pressure Strength	Max. 0.3MPa
Drain Size	Rc3/4 with plug	
Vent Size	Rc1/2 with plug	
Piping Installation	Horizontal Piping	
Painting Color	Silver	

• Applicable Net Mesh

Vertical-type Non-fluctuation Flowmeter			Turbine Flowmeter	
Capacity Model	Gasoline, Kerosene, Light Oil	Heavy Oil	Capacity Model	Gasoline, Kerosene, Light Oil
54	80	40	52	80
57			54	40
59			57	
60			58	
61			60	
62			63	
63			64	
65			—	—

- **Option**
Special flange and davit etc. are available.

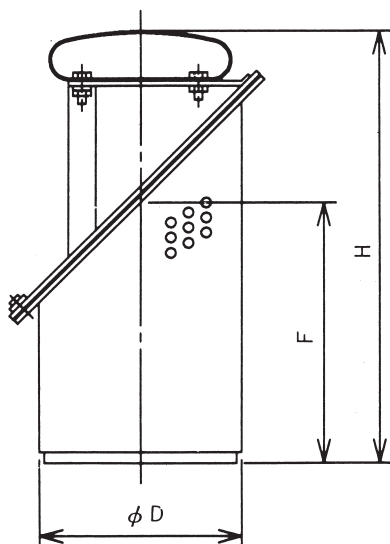
Basic Models

1	2	3	4	5	6	7	8	9	10	Contents	
F	S	B									LARGE BUCKET TYPE STRAINER
Connection Size	1	0									4 B (100 mm)
	1	5									6 B (150 mm)
	2	0									8 B (200 mm)
	2	5									10 B (250 mm)
	3	0									12 B (300 mm)
	3	5									14 B (350 mm)
	4	0									16 B (400 mm)
	4	5									18 B (450 mm)
	5	0									20 B (500 mm)
Capacity Model	Max. Flow Rate (Applicable Connection Size)										
	5	3									280 m ³ /h (100, 150 mm)
	5	5									460 m ³ /h (150, 200 mm)
	5	7									700 m ³ /h (200, 250 mm)
	5	9									1,100 m ³ /h (250, 300 mm)
	6	0									1,500 m ³ /h (250, 300, 350 mm)
	6	1									2,000 m ³ /h (300, 350, 400 mm)
	6	2									2,200 m ³ /h (350, 400, 450 mm)
	6	3									3,000 m ³ /h (400, 450, 500 mm)
Pressure					Max. Working Pressure (MPa)		Hydraulic Test Pressure (MPa)		Applicable Flange Rating		
									JIS	ASME · JPI	
	B				1.0		1.5		10K	(150)	
	D				2.0		3.0		(20K)	150	
F				3.04		4.56		20K	(300)		
Outer Material			B		Main Body : STPG370, SS400						
Inner Material			K		Screen / SUS304, Frame / SS400						
			P		Screen / SUS304, Frame / SUS304						

Note) 1. Max Working Pressure value is at 220°C or below for JIS or at 38°C or below for ASME/JPI.

2. What is indicated in the "()" in applicable flange rating is available when the max. working pressure and the hydrostatic test pressure satisfy the Use Condition.

Filter Mesh Size Table

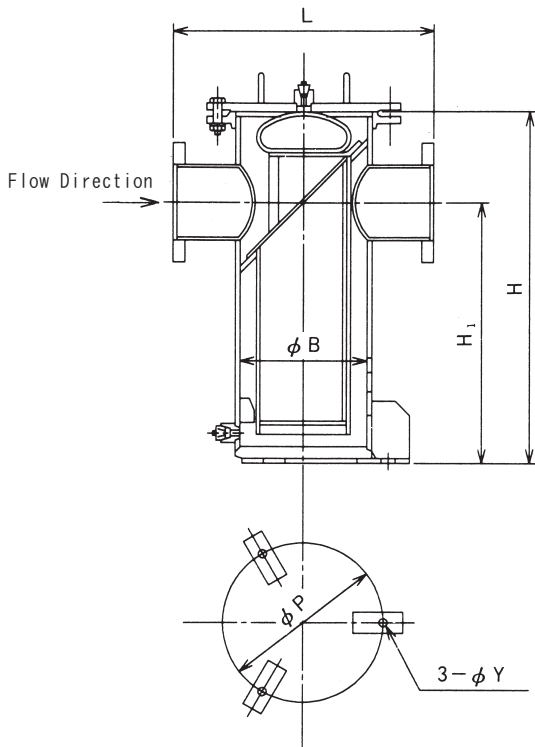


Capacity Model	Dimensions(mm)			Screen (Mesh)
	φD	F	H	
53	180	450	700	40 , 80
55	224	560	850	
57	300	750	1,110	
59	335	850	1,260	
60	400	750	1,160	
61	476	850	1,310	
62	560	900	1,385	
63	600	1,150	1,650	

Note) Dimension above capacity model 60 may differ depending on operating conditions.

Dimension Drawing

Capacity Model 53-59



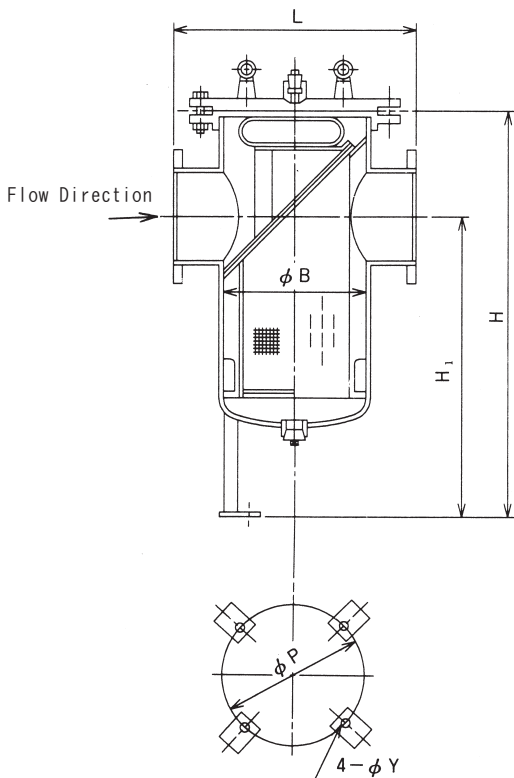
For 1MPa, 2MPa (Code B, D)

Capacity Model	Connection Size (mm)	Dimensions (mm)						Internal Volume (L)	Approx. Weight (kg)	
		L	H	H ₁	φ B	φ P	φ Y		Pressure B	Pressure D
53	100	500	800	560	267.4	355	19	40	115	135
	150	560								
55	200	630	950	670	318.5	400	24	68	160	200
		710								
57	250	710	1,250	900	406.4	530	150	355	415	
		800								
59	300	800	1,400	1,000	457.2	600	215	500	560	
		900								

For 3MPa (Code F)

Capacity Model	Connection Size (mm)	Dimensions (mm)						Internal Volume (L)	Approx. Weight (kg)	
		L	H	H ₁	φ B	φ P	φ Y		Pressure B	Pressure D
53	100	560	800	560	267.4	355	19	40	200	
	150	630								
55	200	710	950	670	318.5	400	24	68	280	
		800								
57	250	800	1,250	900	406.4	530	150	550		
		900								
59	300	900	1,400	1,000	457.2	600	215	750		
		900								

Capacity Model 60-63

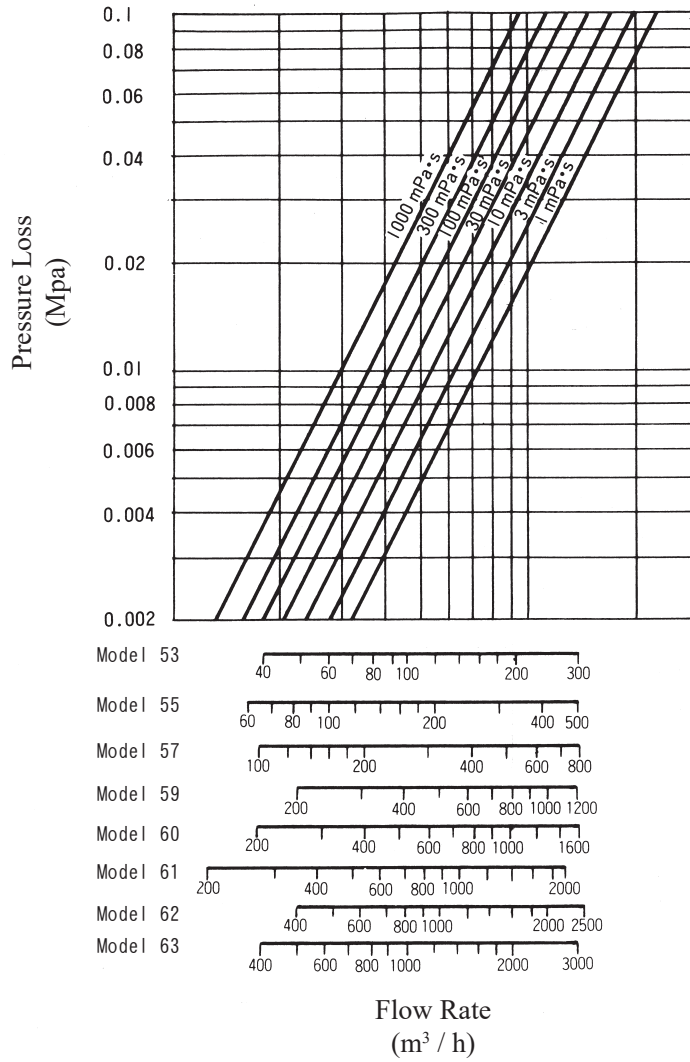


For 1MPa, 2MPa (Code B, D)

Capacity Model	Connection Size (mm)	Dimensions (mm)						Internal Volume (L)	Approx. Weight (kg)	
		L	H	H ₁	φ B	φ P	φ Y		Pressure B	Pressure D
60	250	850	1,460	1,060	500	450	24	230	590	670
	300									
	350									
61	300	950	1,630	1,180	600	560	370	680	890	
	350									
62	400	1,120	1,725	1,250	700	670	540	970	1,220	
	450									
	500									
63	400	1,180	1,850	1,320	750	710	690	1,180	1,460	
	450									
	500									

Note) Dimension may differ depending on the specification.

Pressure Loss Characteristics



Ordering Instructions

	Item	Contents
1	Applications	Production Control, Dealings, Receipt and Shipment etc.
2	Applicable Fluid	Name, Compositions, Existence of Admixture and Corrosion
3	Flow	Maximum, Normal, Minimum (Time of Use For Each Day) (m ³ /h)
4	Fluid Temperature	Maximum, Normal, Minimum (°C)
5	Max. Working Pressure	Maximum, Normal, Minimum (MPa)
6	Viscosity and Specific Gravity	Viscosity (at °C), Specific Gravity (at °C)
7	Connection Standard	Connection Size and Flange Standard, etc.
8	Applied Regulations	Name of Regulation and Standards
9	Net Mesh	40, 80 Mesh
10	Optional Specifications	Davit, Heating Tube etc.
11	Non Destructive Inspection	If Yes, its specifications and determination criteria
12	Mill Test Certificate for Materials	Mill Test Certificate for Materials used for pressure resistant main part(s): Yes/No

*Be sure to read the instruction manual carefully before you use this meter to ensure you use it correctly.

*Note that the contents may be subject to change without notice.

● Contact

Tokico System Solutions, Ltd.

Global Business Div.
Sales Management Headquarters

Parale Mitsui Biding, 8, Higashida-cho, Kawasaki-ku,
Kawasaki-shi, Kanagawa 210-0005 Japan

TEL. 81-50-3852-5336

FAX. 81-44-222-7155

URL: <https://www.tokicosys.com/en/>