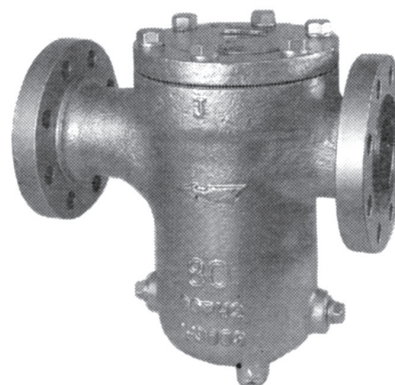


# GENERAL SPECIFICATIONS

# SMALL BUCKET TYPE STRAINER



GS-F5010E-01



## Overview

In a pipe line, strainers are necessary for filtering foreign matters, protecting flowmeters, maintaining measurement accuracy and insuring 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 usage purposes.

## Features

- Wide effective filtering area, minimizing the pressure loss.
- Simple form, high safety against pressure.
- High strength of filtering net against differential pressure (0.29MPa) for the assurance of operation.
- Simple structure for easy use.

## Selection Method

- **Connection Size**  
Select the connection size so that the flow rate shall be 5m/s or lower.
- **Capacity Model**  
Select the capacity model so that the pressure loss at max. flow rate shall be 0.05Mpa or lower.
- **Pressure Classification**  
Select the pressure classification in accordance with Max Working Pressure and Flange Rating.
- **Applicable Net mesh**

## Standard Specifications

Applicable Fluid Name		Water, Petroleum
Max. Working Pressure		Max. 5.0 MPa
Connection Size		20mm (3/4B) ~ 100mm (4B)
Flange Standard		JIS 10K, 20K, 30K FF or RF ASME · JPI 150, 300 RF
Material	Main Body	FC250, SCPH2
	Screen/Frame	SUS304 / SUS304
	Gasket	Non-asbestos, Teflon, Spiral Type
Screen	Mesh Size	40, 80, 100, 200 Mesh
	Difference Pressure Strength	Max. 0.29 MPa
Drain Type		Plug Stop
Painting Color		Munsell 1.4PB 3.1 / 1.2

Note) Spiral Type Gasket is applicable only for the strainers whose pressure code is H and main body material is SCPH2.

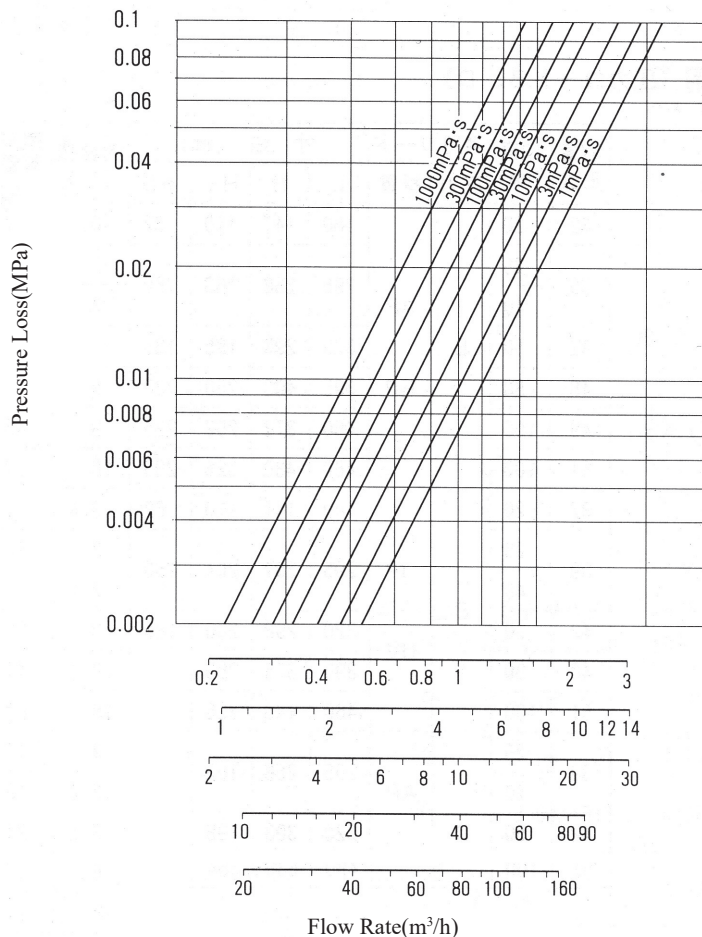
Model	Fluid Viscosity (mPa · s)	Capacity Model	Net mesh (Standard Size)	
POSITIVE DISPLACEMENT OIL FLOWMETER	Less than 10	/	80	
	10 or more		40	
	Less than 10		80	
	10 or more		40	
TURBINE FLOWMETER	/		33	200
			36,38	100
			41~52	80
			54~	40

# Basic Models

1	2	3	4	5	6	7	8	9	10	Contents						
F	S	B									SMALL BUCKET TYPE STRAINER					
Connection Size	B	6									<sup>3</sup> / <sub>4</sub> B ( 20 mm )					
	B	8									1 B ( 25 mm )					
	0	4									1 <sup>1</sup> / <sub>2</sub> B ( 40 mm )					
	0	5									2 B ( 50 mm )					
	0	8									3 B ( 80 mm )					
	1	0										4 B ( 100 mm )				
Capacity Model			Max. Flow Rate(Applicable Connection Size)													
	3	2									2 m <sup>3</sup> /h ( 20 mm )					
	3	9									10 m <sup>3</sup> /h ( 25,40 mm )					
	4	2									20 m <sup>3</sup> /h ( 50 mm )					
	4	8									80 m <sup>3</sup> /h ( 80 mm )					
	5	1										150 m <sup>3</sup> /h ( 100 mm )				
Pressure											Max. Working Pressure (MPa)	Hydraulic Test Pressure (MPa)	Applicable Flange Rating		Main Body Material	
													J I S	ASME · JPI		
	B										0.98	1.96	(10K)	(150)	FC250	
	D										1.96	3.92	(20K)			
	F										3.04	4.56	10K, 20K	150, (300)	SCPH2	
H										5.00	7.50	30K	(300)			
Material											Main Body		Screen		Frame	
	A	P									FC250		SUS304		SUS304	
	N	P									SCPH2					

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.

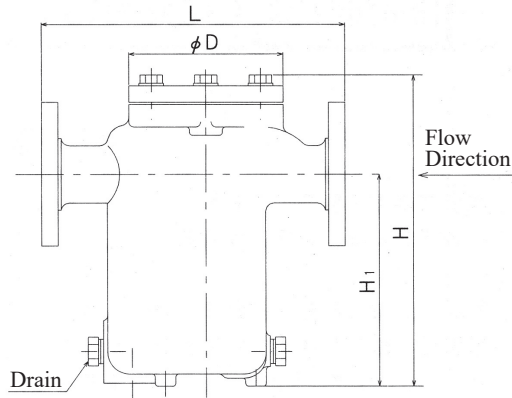
# Pressure Loss Characteristics



Note) 1mPa·s = 1cP

# Dimension Drawing

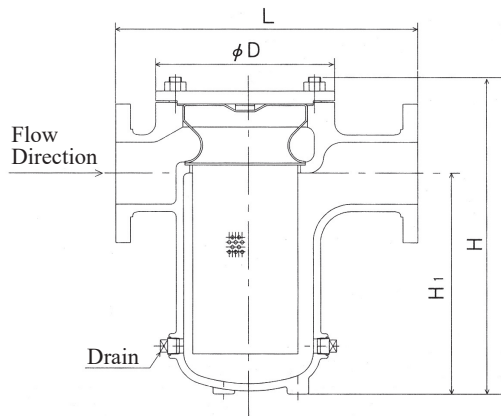
## Body Material : FC250 (Material Code AP)



Capacity Model	Connection Size (mm)	Applied Code Pressure	Dimensions (mm)				Internal Volume (L)	Approx. Weight (kg)	Drain Size
			L	H	H <sub>1</sub>	φD			
32	20	B	180	147	110	62	0.4	7	M14×2
39	25		295	258	163	160	2	13	M16×1.5
	40						2.2	16	
42	50		320	295	195	185	3.5	22	
48	80		395	403	280	230	8	41	
51	100	460	480	325	295	18	67	M20×1.5	
39	25	D	295	258	163	150	2	15	M16×1.5
	40						2.2	16	
42	50		320	303	198	174	3.5	24	
48	80		400	382	259	225	8	45	
51	100		490	536	364	288	18	71	

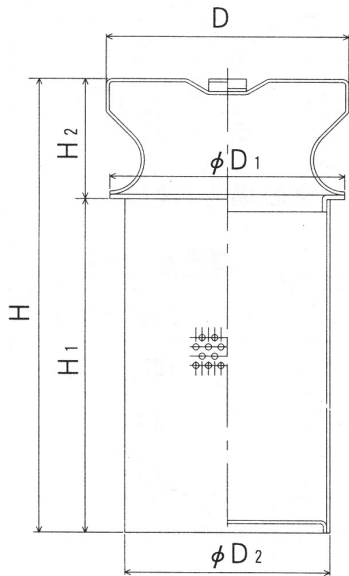
Note) The connection flange for capacity model 39 is JIS 20 K FF. Its bolt hole diameter and pitch circle diameter are the same as those of JIS 10 K FF flange.

## Body Material : SCPH2(Material Code NP)



Capacity Model	Connection Size (mm)	Applied Code Pressure	Dimensions (mm)				Internal Volume (L)	Approx. Weight (kg)	Drain Size
			L	H	H <sub>1</sub>	φD			
32	20	F	210	161	115	□82	0.5	9	Rc1/4
39	25		295	277	174	160	2	20	Rc3/4
	40						2.2	22	
42	50		320	305	195	185	3.5	28	
48	80		400	380	252	230	8	50	
51	100	490	515	355	295	18	90		
39	25	H	295	287	174	160	2	20	Rc3/4
	40						2.2	22	
42	50		320	327	195	185	3.5	28	
48	80		400	400	252	230	8	50	
51	100		490	537	355	295	18	90	

## Filter Mesh Size Table



Capacity Model	Dimensions (mm)						Approx. Weight (kg)
	D	$\phi D_1$	$\phi D_2$	H	H <sub>1</sub>	H <sub>2</sub>	
32	48	49	40	98	74	24	0.1
39	94	92	78.5	199	136	63	0.3
42	114	110	92.5	222	158	64	0.4
48	155	150	131	292	215	77	0.9
51	200	195	164	402	303	99	1.5

## Ordering Instructions

Item	Contents
1	Applications
2	Applicable Fluid
3	Flow Rate
4	Fluid Temperature
5	Operating Pressure
6	Viscosity and Specific Gravity
7	Connection Standard
8	Applied Regulations
9	Net mesh
10	Packing Material
11	Optional Specifications
12	Non Destructive Inspection
13	Mill Test Certificate for Materials

\*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

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