

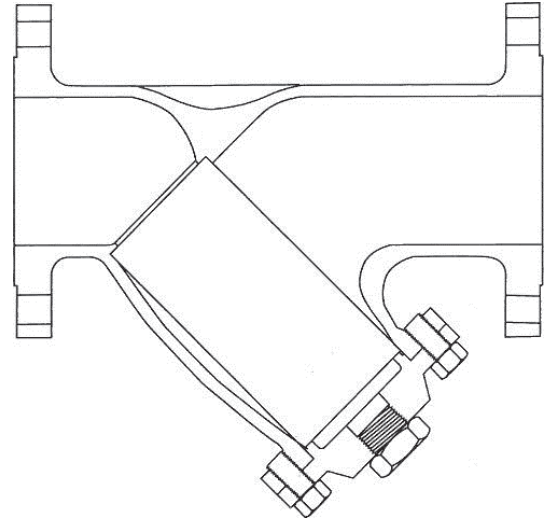


# Model BYBS “Y” Type Strainers

## Description

Strainers are installed in pipelines ahead of meters, pumps, valves and other flow stream equipment for protection against intrusion of pipe scale, welding spatter and other foreign material. The use of a properly sized strainer, together with a basket of suitable mesh, reduces maintenance and the chance of system failure due to foreign material in the flowing stream.

Brodie “Y” Strainers are available in sizes 1/2” - 3” for maximum working pressures up to 740 psi (51.02 Bars).



## Strainer Baskets

The strainer basket must be kept clean for effective safe operation. A buildup of sediment increases pressure drop and decreases flow. If the basket is allowed to become completely clogged, damage will result. It is recommended that pressure gauges be installed both upstream and downstream of the strainer. The differential pressure between these two gauges will give an indication of the condition of the basket.

Recommended screen mesh will vary according to the products being monitored and the condition of the pipeline. In most applications, gasoline and similar products will use a 60 mesh screen. Diesel, number 2 oil, and similar products will use a 40 mesh screen. Liquids such as heating oils will require a 20 mesh screen.

## Design Features

- Strainers available with RF flanged (ANSI B16.5) connections.
- Strainer body meets ASME B16.5 and ASME B16.34.
- One piece cast body.
- Strainers equipped with bolted cover flange that utilizes a flat gasket seal.
- Bolted cover designed to meet the requirements of ASME Section VIII, Div 1, Appendix 2 and/or ASME B16.5.

- Upper and lower machined seats.
- 304 SS perforated screens are standard.
- Drain/blow-off connection furnished with plug as standard.
- Generous screen area and properly proportioned straining chamber to minimize initial pressure drop while maximizing time between cleanings.

## Specifications

Flange Ratings @ 100°F (38°C)		
BYBS Model (RF Flanged)	Body Material	MAWP psig (Bars)
150#	WCB	285 (19.65)
150#	CF8M	275 (18.96)
300#	WCB	740 (51.02)
300#	CF8M	720 (49.64)

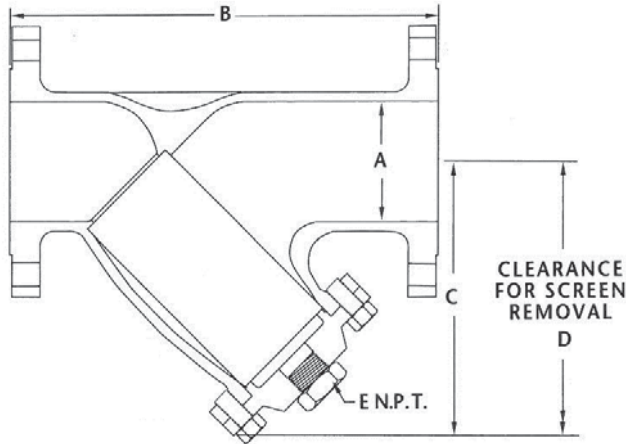
Lower Temperature Limit: -20°F (-28.9°C)

## Materials of Construction

Part	Carbon Steel	Stainless Steel
Body	A216-WCB	A351-CF8M
Cover	A216-WCB	A351-CF8M
Screen*	304 SS	304 SS

\* Recommended Spare

## Dimensions



## Standard Screen Sizes

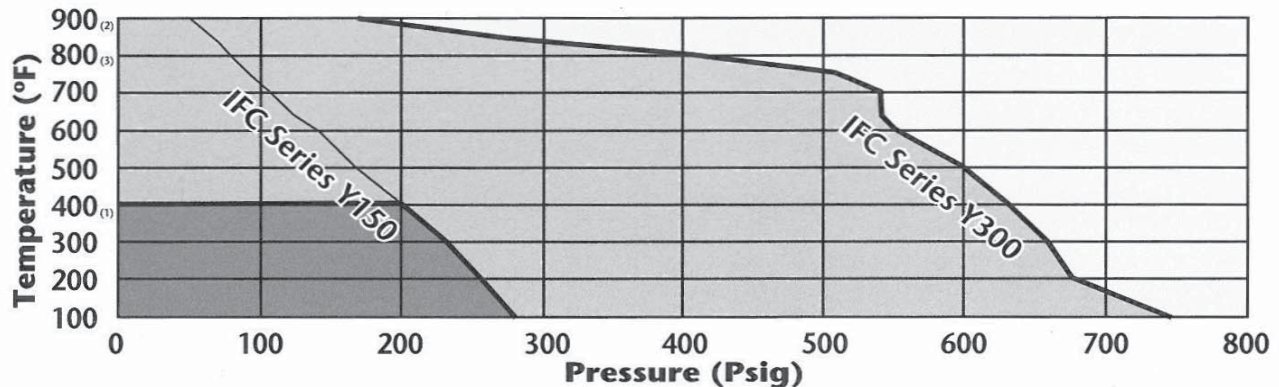
Size Range	Opening
1/2" - 1-1/12" (13mm - 38mm)	0.032" (0.8mm)
2" - 3" (51mm - 76mm)	0.045" (1.2mm)

Other perforations and screen materials available.

Size	A		B		C		D		E		Weight	
	150#	300#	150#	300#	150#	300#	150#	300#	150#	300#	150#	300#
1/2" (13 mm)	0.5 (13)	0.5 (13)	6 (152)	6.5 (165)	3.88 (99)	4.25 (108)	4.75 (121)	5.75 (146)	1/4 (6)	1/4 (6)	5.5# (2.5 kg)	8# (3.6 kg)
1" (25 mm)	1.00 (25)	1.00 (25)	7.5 (191)	7.88 (200)	4.75 (121)	5.5 (140)	6.38 (162)	8.12 (206)	1/2 (13)	1/2 (13)	9# (4 kg)	15# (6.8 kg)
1-1/2" (38 mm)	1.5 (38)	1.5 (38)	9 (228)	10.5 (267)	5.63 (143)	7 (178)	9 (228)	10.25 (260)	1/2 (13)	1/2 (13)	12# (5.4 kg)	32# (14.5 kg)
2 (51 mm)	2.0 (51)	2.0 (51)	8.63 (219)	9 (228)	5.25 (133)	5.69 (145)	7.5 (191)	8 (203)	1/2 (13)	1/2 (13)	20# (9.1 kg)	26# (11.8 kg)
3" (76mm)	3.0" (76)	3.0" (76)	11.63 (295)	12.63 (3.21)	7.69 (195)	8.13 (207)	10.88 (276)	11.5 (292)	1 (25)	1 (25)	36# (16.3 kg)	55# (24.9 kg)

1. For further optional features, consult factory.
2. For pressure loss, consult factory.
3. For additional ordering information, consult factory.
4. Dimensions shown are subject to change. Contact factory for certified prints when required.

## Pressure Temperature Chart (in accordance with ASME B16.5, WCB)



Teflon limited to 400°F maximum sustained temperature. When operating Series "Y" Strainers at a higher temperatures please consult factory.

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