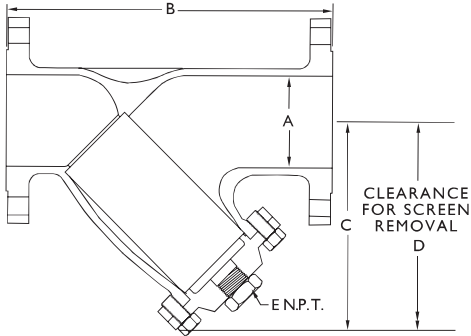


Y-Strainers

APOLLO® SERIES 125YF AND 250YF



IRON PIPE FLANGED Y-STRAINERS

FEATURES

- Iron strainers are complete with Flat Face (Series 125YF) or Raised Face (Series 250YF) flanges in accordance with ASME B16.1.
- Strainer body meets applicable ASME Standard.
- One piece cast body.
- Strainers equipped with bolted cover flange that utilize a flat gasket seal.
- Low pressure drop.
- 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.
- Compact end to end dimension.

2.4 STRAINERS 21/2 FLANGED TO 8"

Upper Pressure Limits (Non-Shock)			
Apollo Model	Body Material	M.A.W.P. PSIG (Bars)	Ends
125YF (up to 12" size)	A126-B Cast iron	200 (13.79)	FF
125YF Sizes 14" and up)	A126-B Cast iron	150 (10.34)	FF
250YF (Sizes 2" - 12")	A395 Ductile iron	500 (34.47)	RF
Body Material		Lower Limit °F (°C)	
A126-B, A395		-20 (-28.9)	

Parts List and Standard Materials		
Part	Cast Iron	Ductile Iron
Apollo Model	125YF	250YF
Body	A126-B	A395
Cover	A126-B	A395
Screen ¹	304 SS	304 SS
Plug ²	A126-B	A126-B
Gasket ¹	Graphite	Graphite
Bolt/Stud ²	A307-B	A307-B
Nut ²	A563	A563

Notes:

1. Recommended Spares.
2. Materials of equivalent strength may be substituted at manufacturer's option.

Dimensional Data (Iron Classes 125, 250) *use columns from chart above												Weight	
	A		B		C		D		E				
	125YF	250YF	125YF	250YF	125YF	250YF	125YF	250YF	125YF	250YF	Y125	Y250	
2"	2.00	2.00	8.88	8.88	6.00	6.50	8.50	9.13	1/2	1/2	22	28	
50	51	51	226	226	152	165	216	232	15	15	10	13	
21/2"	2.50	2.50	10.75	11.25	8.00	7.00	11.25	9.88	1	1	35	38	
65	64	64	273	289	203	178	286	251	25	25	16	17	
3"	3.00	3.00	11.50	11.63	8.75	8.00	12.25	11.25	1	1	43	54	
80	76	76	292	295	222	203	311	286	25	25	20	24	
4"	4.00	4.00	13.88	14.50	9.50	10.75	13.38	15.00	11/4	1	75	110	
100	102	102	353	368	241	273	340	381	32	25	34	50	
5"	5.00	5.00	16.38	17.38	11.50	13.50	16.13	19.00	11/4	11/4	115	160	
125	127	127	416	441	292	343	410	483	32	32	52	73	
6"	6.00	6.00	18.50	18.75	12.63	16.25	17.69	22.75	11/2	11/2	154	224	
150	152	152	470	476	321	413	449	578	40	40	70	102	
8"	8.00	8.00	21.38	21.88	16.38	19.50	23.00	27.75	11/2	11/2	243	468	
200	203	203	543	556	416	495	584	692	40	40	110	212	
10"	10.00	10.00	26.00	27.25	19.00	21.25	26.70	29.75	2	2	390	590	
250	254	254	660	692	483	540	678	756	50	50	177	268	
12"	12.00	12.00	30.00	31.38	22.00	25.00	31.00	35.00	2	2	650	890	
300	305	305	762	797	559	635	787	889	50	50	295	404	
14"	14.00	-	37.38	-	29.00	-	41.00	-	2	-	815	-	
350	356	-	949	-	737	-	1041	-	50	-	370	-	
16"	16.00	-	42.50	-	33.00	-	46.00	-	2	-	1224	-	
400	406	-	1080	-	838	-	1168	-	50	-	555	-	

PURPOSE

If the basket strainer is being used for protection rather than direct filtration, Apollo's standard screens will suffice in most applications.







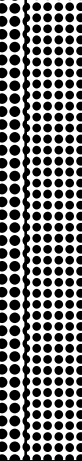
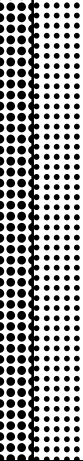
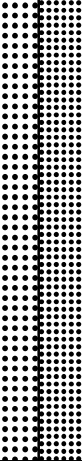
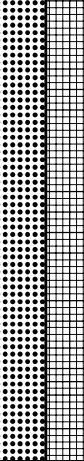
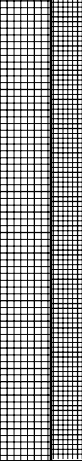
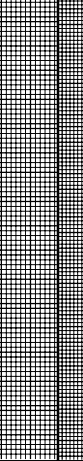
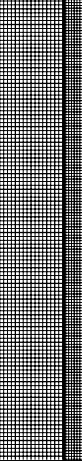
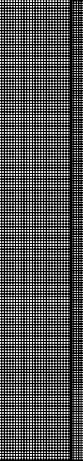
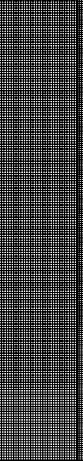
SERVICE

With services that require extremely sturdy screens, such as high pressure/ temperature applications or services with high viscosities, Apollo® recommends that perforated screens without mesh liners be used. If mesh is required to obtain a certain level of filtration, then Apollo recommends a trapped perf./mesh/perf. combination.

FILTRATION LEVEL

When choosing a perf. or a mesh/perf. combination attention should be given to ensure overstraining does not occur. As a general rule the specified level of filtration should be no smaller than half the size of the particle to be removed. If too fine a filtration is specified the pressure drop through the strainer will increase very rapidly, possibly causing damage to the basket.

FACTORS TO CONSIDER

SCREEN TYPES/DIMENSIONS														
														
1/4" Dia. - 40% O.A.	3/16" Dia. - 50% O.A.	5/32" Dia. - 58% O.A.	1/8" Dia. - 40% O.A.	3/32" Dia. - 39% O.A.	1/16" Dia. - 37% O.A.	3/64" Dia. - 36% O.A.	1/32" Dia. - 40% O.A.	0.027" Dia. - 23% O.A.	20 Mesh - 49% O.A. 0.035" Openings	30 Mesh - 45% O.A. 0.022" Openings	40 Mesh - 41% O.A. 0.016" Openings	60 Mesh - 38% O.A. 0.010" Openings	80 Mesh - 36% O.A. 0.008" Openings	100 Mesh - 30% O.A. 0.006" Openings

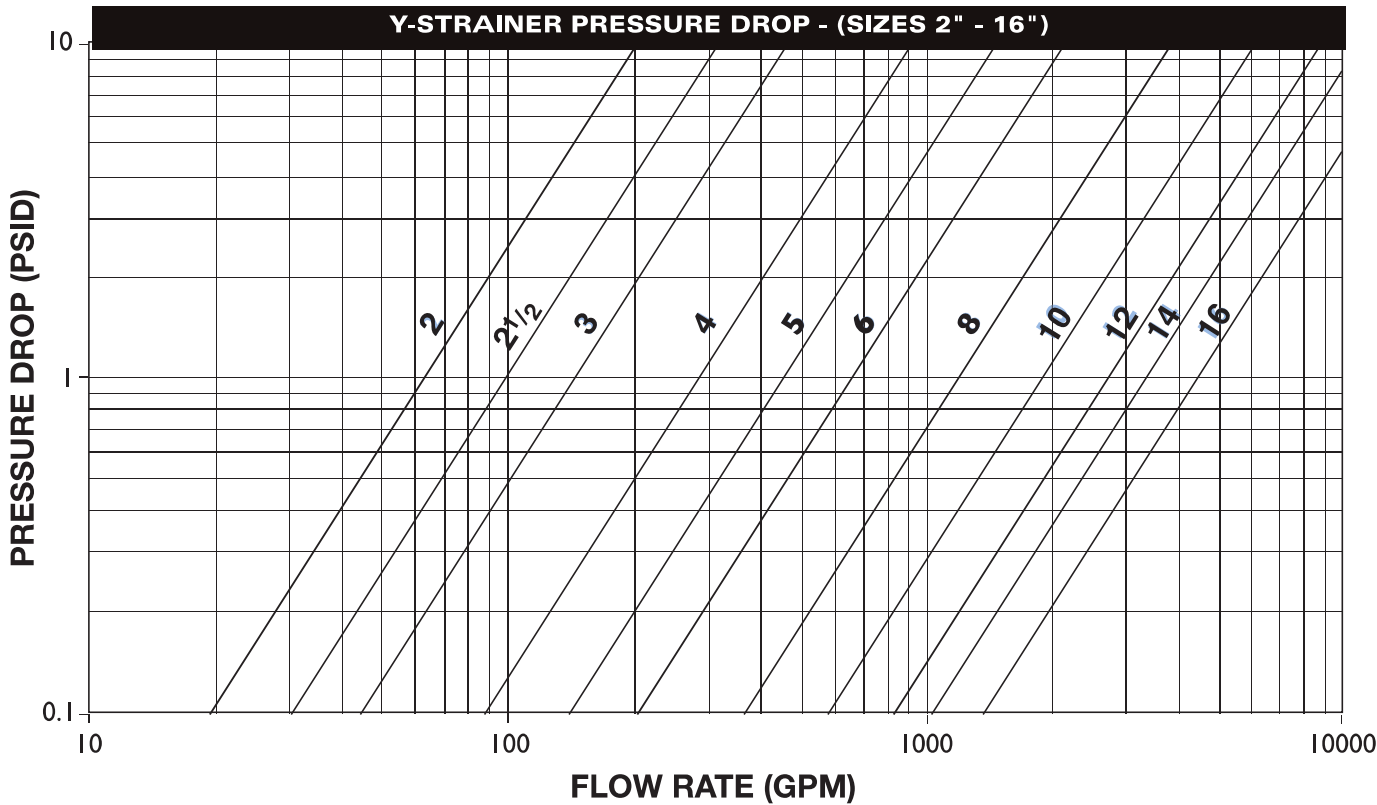
Notes:

- Screen openings other than those shown above are available.
- Screens are available in a wide range of materials, CS, SST, Alloy 20, Monel 400, Hastalloy C and Titanium GR2.
- Custom manufactured screens are available upon request. Please consult factory.
- All mesh screens include liner;
 - .045 Perf 3" and smaller
 - .125 Perf 4" and larger.

Standard Screens	
Size Range	Opening
2" - 3"	0.045 in.
50mm - 80mm	1.2mm
4" and larger	0.125 in.
100mm and larger	3.2mm

Engineering Data
Y-Strainer Pressure
Drop – Liquids

Figure 1



- Notes:
- 1. Pressure drop curves are based on water flow with standard screens.
 - 2. See next page for correction factors to be used with other fluids and/or screen openings.

The following optional features are available for most Apollo Y-Strainers.
Please consult factory if required feature not shown.

FEATURES & AVAILABILITY	
Feature	Description of Availability
Screen openings	Range 5 micron to 1/2" perf.
Screen materials	Carbon steel, stainless steel (304/316 and L grades), alloy 20, monel 400, hastalloy C, Titanium, etc.
Screen construction	Perforated plate, mesh and wedge wire.
Gaskets	Any material commercially available.
Special body materials	Consult factory.
Special coatings	FDA Epoxy Coating
Silicon free contamination	Specially cleaned and packed - performed on request.
Canadian Registration (CRN)	Available on most models in province of installation.

Note:

- 1. Strainer size may effect the ability to apply certain coatings and linings.

"Apollo" Valves