

Y-STRAINER



Strainers are used to separate solid contaminants from liquids or gases. They are compact for their size and pressure rating and require little maintenance. We offer strainers with high filtration efficiency, low pressure drops, and affordable prices, making them a great choice for our customers The range of strainers we have, can be adapted to any application. For low pressure applications, we offer casted strainers, while for high pressure applications above 600#, we provide forged strainers.

All our strainers are designed as per ASME 16.34, with high corrosion allowance on wall thickness for longer life.

MESH SIZING

Petronash offers a wide variety of mesh sizes for various applications. Our Standard Mesh size ranges from 10 Mesh to 400 Mesh. Higher Mesh sizes for special applications are also available.

The mesh size of a filter element is defined as the number of openings per square inch. The mesh size and the pore size of the filter element are related as shown in the table below.

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MESH SIZE	MICRON (FILTER PORES)
10	2000
20	841
40	400
50	297
100	149
140	105
200	74
270	53
400	37
A wide of Mesh siz	zes available, contact factory

for more details.

To ensure effective filtration, it is advisable to keep the pore size smaller than the actual particle size during mesh selection. Furthermore, not all particles will be uniform in size, a slender hair like particle will fit through a certain hole in one direction but gets blocked in other direction. A particle that is soft and deformable can also squish through the holes with enough pressure.





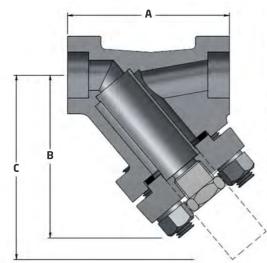
FORGED STRAINER

The strainers we manufacture are made from forgings of highest quality that are robust and compact. We offer a variety of process connections, materials, and filtration sizes.

- ➤ Socket welded (SW) Connections as per ANSI B16.11
- Screwed (NPT) Connections as per ANSI B1.20.1
- ➤ Flanged Connections as per ASME B16.5 with RF
- ➤ EN10204 / NACE Certification
- Filter element available in all mesh sizes based on the requirement.
- ➤ The large filtration area ensures the superior filtration with least pressure drop.



DIMENSIONS AND WEIGHTS WITH STANDARD CONNECTION



SIZE	STANDARD END CONNECTIONS & DIMENSIONS									
INCHES	SW	NPT	А	В	С	Weight				
3/8"	✓	✓	96	97	110	2.2				
1/2"	✓	✓	96	97	110	2.2				
3/4"	✓	✓	96	97	96	2.2				
1"	✓	✓	111	119	151	3.8				
1-1/2"	✓	✓	140	145	183	6.5				

All linear dimensions are in mm & Weight specified in Kg.







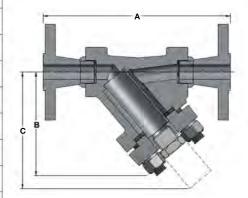






DIMENSIONS AND WEIGHT WITH FLANGE END

SIZE	STANDA	RD END CO	NNECTIO	NS & DIME	NSIONS
(Inches)	CLASS	А	В	С	Weight
1/2"	150	225	96	113	3.5
1/2"	300	265	96	113	4.0
1/2"	600	275	96	110	4.25
1/2"	900/1500	318	96	199	8.3
1/2"	2500	344	117	120	11.2
3/4"	150	259	96	113	3.8
3/4"	300	269	96	113	5.2
3/4"	600	280	97	110	5.6
3/4"	900/1500	338	96	199	9.1
3/4"	2500	356	117	120	12.2
1"	150	271	120	151	6.4
1"	300	289	120	151	7.8
1"	600	303	120	151	8.2



All linear dimensions are in mm & Weight specified in Kg.

STANDARD MATERIAL CONFIGURATION (other materials available on request)

SL.NO	DESCRIPTION	SCRIPTION STAINLESS STEEL	
1	Body	ASTM A182 F316/316L	ASTM A105N
2	Retainer	SS 316 / 316L	ASTM A105N
3	Filter element	SS 316 / 316L	SS 316 / 316L
4	Gasket	Graphite + SS 316	GRAPHITE + SS 316
5	Stud	ASTM A193 B8M	ASTM A 193 B7
6	Nut	ASTM A194 GR8M	ASTM A194 2H
7	Drain plug	SS 316 / 316L	ASTM A105
8	Flanges	SS 316 / 316L	SS 316 / 316L





ORDERING INFORMATION AND MODEL DECODIFICATION

	P80	SW	SS3	140	SS
STR S20	1.00				

TYPE	SIZE	PRESSURE RATING	PROCESS CONNECTION	MATERIAL	MESH SIZE	MESH MOC
	S10 - 3/8"	P15 - 150#	SW - SOCKET WELD	SS3 - ASTM A 182 F316L	40 - 40 Mesh	SS-SS316
	S15 - 1/2"	P30 - 300#	NPT - NPTF THREADED	SS4 - ASTM A 182 F316	40 - 40 Mesh	MN-MONEL
STR - Y	S20 - 3/4"	P60 - 600#	RF - RAISED FACE FLANGED	CS2-ASTM A105N	50 - 50 Mesh	Up on request
STRAINER	S25 - 1"	P80 - 800#			100 - 100 Mesh	
	S40 - 1-1/2"	P90/P150 - 900#/1500#			XXX - User defined Mesh	
		P250 - 2500#				

CASTED STRAINER

These casted strainers are made from highest quality investment castings and we offer them in a variety of pressure ratings, Materials and filtration sizes.

- Designed per ASME 16.34, with high corrosion allowance on wall thickness for longer life
- Socket welded (SW) Connections as per ANSI B16.11
- Buttwelded (BW) connections as per ANSI B16.9
- Screwed (NPT) Connections as per ANSI B1.20.1
- ➤ Flanged Connections as per ASME B16.5 with RF & RTJ end
- ► EN 10204 / NACE Certification
- Body made by Investment casting process for superior quality
- Filter element available in different mesh sizes based on the requirement
- ➤ The large filtration area ensures the superior filtration with least pressure drop



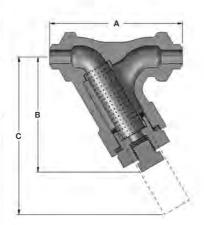


DIMENSIONS AND WEIGHT WITH STANDARD CONNECTION

SIZE	ST	STANDARD END CONNECTIONS & DIMENSIONS							
INCHES	SW	NPT	BW	А	В	С	Weight		
1/2"	✓	√	✓	96	97	110	2.2		
3/4"	✓	✓	✓	96	97	110	2.2		

linear dimensions are in mm & Weight specified in Kg

SIZE	FLANGED END CONNECTIONS & DIMENSIONS							
INCHES	CLASS	А	В	С	Weight			
1/2"	150	127	97	110	3.8			
1/2"	300	141	97	110	3.8			
1/2"	600	153	97	110	4.8			
3/4"	150	127	97	120	3.7			
3/4"	300	141	97	120	4.7			
3/4"	600	153	97	110	4.9			



linear dimensions are in mm & Weight specified in Kg

ORDERING INFORMATION AND MODEL DECODIFICATION

STR	S20	P80	SW	SS2	140	SS
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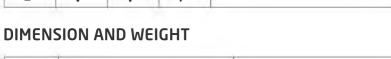
TYPE	SIZE	PRESSURE RATING	PROCESS CONNECTION	MATERIAL	MESH SIZE	MESH MOC
	S15 - 1/2"	P80 - 800#	BW - BUTT WELD	SS1 - ASTM A351 CF3M	40 - 40 Mesh	SS-SS316
STR - Y	S20 - 3/4"	P30 - 300#	NPT - NPTF THREADED	SS2 - ASTM A351 CF8M	50 - 50 Mesh	MN-MONEL
STRAINER		P60 - 600#	SW - SOCKET WELD	CS1-ASTM A216 WCB	100 - 100 Mesh	Up on request
					XXX - User defined Mesh	

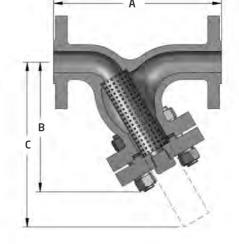




SIZE AND PRESSURE RATING

SIZE	PRESSURE RATING & END CONNECTION							
(Inches)	150 #	300 #	600 #	900 #/1500#		250	00 #	
	RF	RF	RF	RF	RF	RF	RF	
1"	✓	✓	✓	✓	✓	✓	✓	
1-1/2"	✓	\checkmark	\	Other sizes on Request				
2"	√	✓	✓	Oti	101 21202	on Kequ	C 31	





SIZE	900 # / 1500 #				2500 #				
(Inches)	Α	В	С	WT.	А	В	С	WT.	
1"	254	193	232	18	308	215	259	25.5	

SIZE	150 #			300 #				600 #				
(Inches)	А	В	С	WT.	А	В	С	WT.	А	В	С	WT.
1"	197	153	193	6.5	203	153	193	7.5	221	155	193	7.8
1-1/2"	219	177	214	10.5	229	177	227	13	241	177	214	14.5
2"	203	207	281	13.6	267	214	290	16.7	292	218	290	19.3

All linear dimensions are in mm & Weight specified in Kg

STANDARD MATERIAL CONFIGURATION: (other materials available on request)

SL.NO	DESCRIPTION	STAINLESS STEEL	CARBON STEEL		
1	BODY	ASTM A351 CF8M / CF3M	ASTM A216 WCB		
2	RETAINER	SS 316 / 316L	ASTM A105		
3	FILTER ELEMENT	SS 316 / 316L	SS 316 / 316L		
4	GASKET	GRAPHITE + SS 316	GRAPHITE + SS 316		
5	STUD	ASTM A193 B8M	ASTM A 193 B7		
6	NUT	ASTM A194 GR8M	ASTM A194 2H		
7	DRAIN PLUG	SS 316 / 316L	ASTM A105		





ORDERING INFORMATION AND MODEL DECODIFICATION

STR	S20	P80	SW	SS2	140	SS
1	1	-				-

TYPE	SIZE	PRESSURE RATING	PROCESS CONNECTION	MATERIAL	MESH SIZE	MESH MOC
STR - Y STRAINER	S25 - 1"	P15 - 150#	SS1 - ASTM A 351 Gr. CF3M	RF – RAISED FACE	40 - 40 Mesh	SS-SS316
	S40 - 1 1/2"	P30 - 300#	SS2 - ASTM A 351 Gr. CF8M	RTJ – RING JOINT	50 - 50 Mesh	MN-MONEL
	S50 - 2"	P60 - 600#	C1 - ASTM A 216 Gr. WCB		100 - 100 Mesh	Up on request
		P150 - 1500#			XXX - User defined Mesh	
		P250 - 2500#				

SPARES

GASKETS

We provide various gasket options to cater different industrial applications. Gaskets are available in PTFE, Spiral wound, Copper and various Rubber materials.



FILTER ELEMENT

We provide various sized filter elements with various material options. We can supply filter elements in material grades such as SS304, SS316 and Monel 400. Our filter elements are designed and tested to ensure lower pressure drop, reduced maintenance with high filtration efficiency.



Note: Customised models and materials are available based on requirements. Above data are only for reference purpose and subject to change without any prior notice due to constant efforts on product improvement.





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