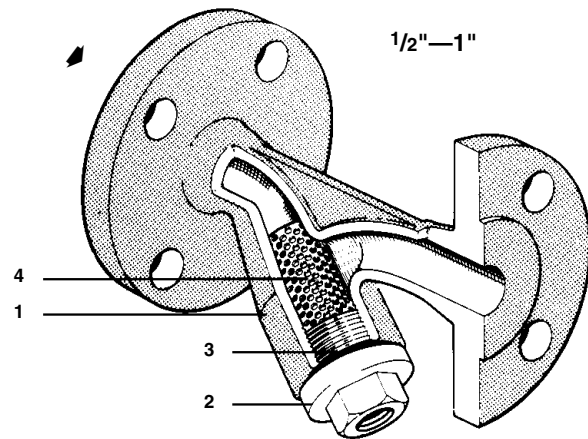


# spirax sarco®

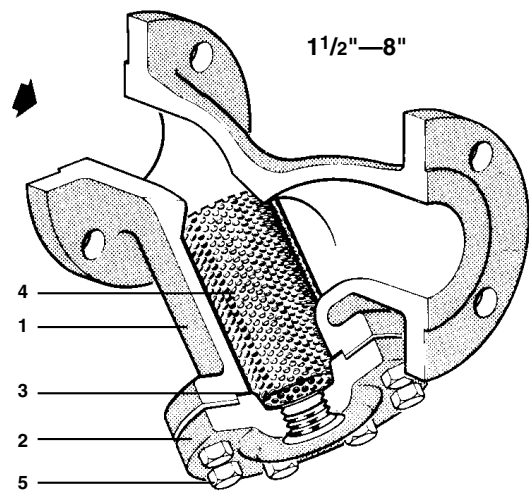
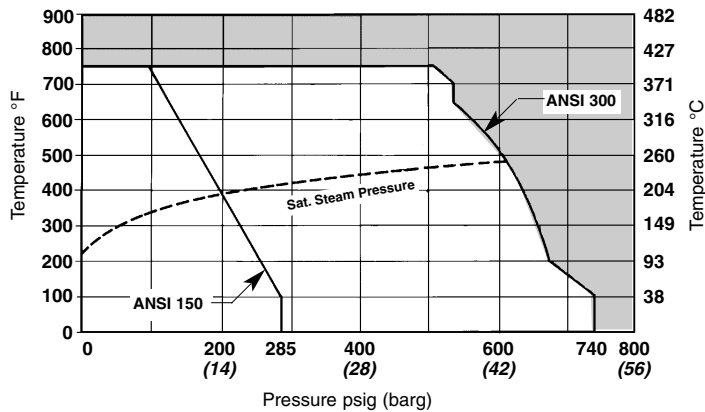
## Steel Strainers

### Fig. 34

Type ⇄	Fig. 34
Sizes	1/2", 3/4", 1", 1-1/2", 2", 2-1/2", 3", 4", 6", 8"
Connections	ANSI 150, 300
Construction	Cast Steel
Max Saturated Steam Pressure	ANSI 150: 200 psig ANSI 300: 600 psig
Standard Screen	1/2" - 3" : 1/32" perf 4" to 8" : 1/8" perf
Options	100 mesh screen (1/2" & 3/4") 100 mesh lined screen (1" - 8")



#### LIMITING OPERATING CONDITIONS (NON-SHOCK)



#### PRESSURE SHELL DESIGN CONDITIONS

Max. allowable pressure	ANSI 300	740 psig/-20-100°F	51 barg/-29-38°C
	ANSI 150	285 psig/-20-100°F	19.6 barg/-29-38°C
Max. allowable temperature	ANSI 300	750°F/0-510 psig	400°C/0-35 barg
	ANSI 150	750°F/0-100 psig	400°C/0-7 barg

#### CONSTRUCTION MATERIALS

No.	Part	Material	
1	Body	Steel	ASTM A 216 Gr WCB
2	Cap	Steel	ASTM A 105
3	Cap Gasket	Reinforced Exfoliated Graphite	
4	Strainer, Std. Screen	Stainless Steel	ASTM A 240 316L
5	Bolts	Steel	ASTM A 193 Gr B7

#### C<sub>v</sub> VALUES

Size	C <sub>v</sub>
1/2"	6
3/4"	10
1"	15
1-1/2"	34
2"	54
2-1/2"	84
3"	120
4"	181
6"	398
8"	688

For water:

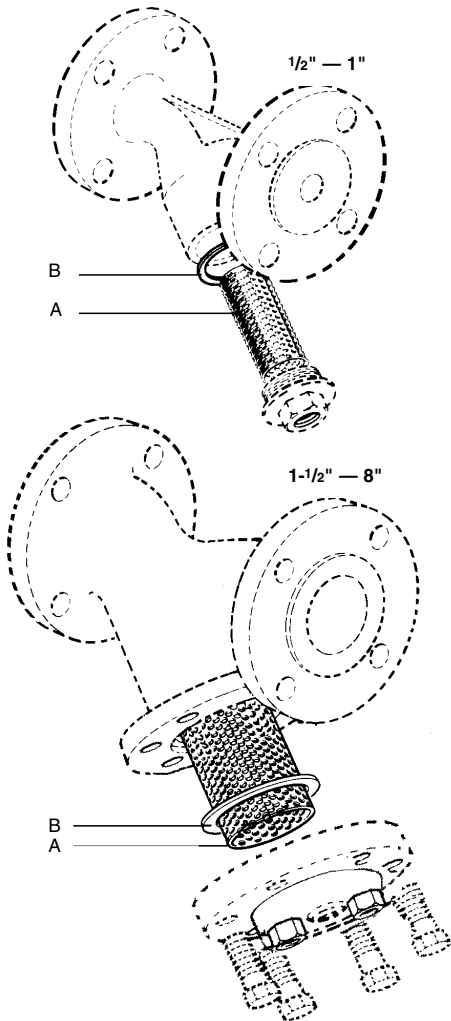
$$\text{Pressure Drop} = \frac{(\text{GPM})^2}{(\text{C}_v)^2}$$

Consult factory for other liquids.  
See TIS 7.429 for pressure drops on steam, air and other gases.

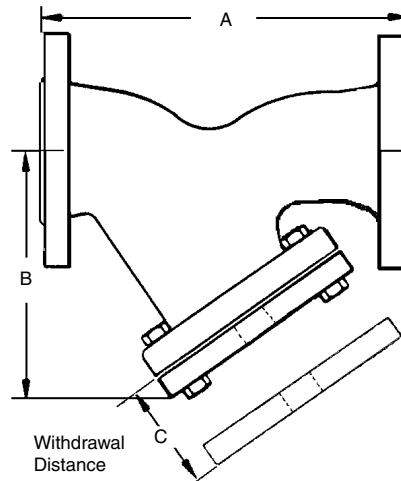
# Steel Strainers

## Fig. 34

### SPARE PARTS



Strainer Screen	A
(state perforation or mesh size)	
Cap Gasket 1/2" to 4" pkt of 3	B
6" & 8" 1 off	



### DIMENSIONS (NOMINAL) IN INCHES AND MILLIMETERS

Size (in.)	ANSI		BLOWDOWN NPT	B	C	Weight
	150 A	300 A				
1/2"	4.7 120	5.0 127	1/4"	2.8 70	4.3 110	4.6 lb 2.1 kg
3/4"	5.7 144	5.9 150	1/2"	3.1 80	5.1 130	6.4 lb 2.9 kg
1"	6.1 154	6.3 160	1/2"	3.7 95	5.9 150	8.4 lb 3.8 kg
1-1/2"	7.9 200	8.2 208	3/4"	5.7 146	10.2 260	19.8 lb 9.0 kg
2"	9.1 230	9.5 240	3/4"	7.1 180	12.6 320	23.1 lb 10.5 kg
2-1/2"	11.4 290	11.4 289	3/4"	7.9 200	12.8 325	38.5 lb 17.5 kg
3"	12.2 310	12.2 311	1"	8.1 205	13.0 330	53 lb 24.0 kg
4"	13.8 351	13.8 351	1-1/2"	10.0 255	15.9 405	66.0 lb 30.0 kg
6"	18.6 473	18.8 478	2"	13.6 345	22.0 560	150 lb 68.0 kg
8"	23.3 593	23.6 600	2"	17.3 440	28.0 710	282 lb 128.0 kg

### INSTALLATION AND MAINTENANCE

The strainer should be installed with the flow direction as indicated on the body, in a vertical down or horizontal pipeline. The strainer must be accessible for periodic removal of accumulated debris, by either blowing down or removal and cleaning of the screen.

### RECOMMENDED TIGHTENING TORQUES

Item	Size	lbft	Nm	A/F mm
2	1/2"	37-40	50-55	22
	3/4"	44-49	60-66	27
	1"	74-81	100-110	27
5	1-1/2" to 2-1/2"	15-18	20-24	19
	3"	22-26	30-35	19
	4"	37-41	50-55	24
	6"	59-65	80-88	30
	8"	89-96	120-130	36