



Simplex S-Type



LOW & MEDIUM PRESSURE SINGLE STRAINER SIMPLEX S-TYPE

Simplex S-Type filters are of simple and robust cast construction with in line connections and can be **used in liquids and gases**. The Simplex (single) basket type is for **general applications** where the process flow is intermittent and can be stopped for element cleaning.



Simplex S-Type

STANDARD FEATURES

- Quick release covers eliminate the need for tools for maintenance
- Designed for pressure ratings up to ASME class 300 (51 BARG)
- Flow is from inside to outside the basket to trap and retain debris.
- High basket area to pipeline C.S.A. ratio of over 10:1
- With coarse perforated baskets (2mm as standard) or fine stainless steel mesh inserts to give particle removal down to 50 microns
- Disposable depth type cartridges are available for filtration to 5-10 micron on liquid and 1-2 micron in gases.
- All fitted with cleanable baskets and inserts or disposable gas cartridges as required, in cast iron, cast steel and stainless steel
- Sizes: 1" to 12" bore, flanged to ASME class 125/250FF and class 150/300RF, depending on material. Can be drilled to BS table and DN standards. Also available with screwed connections 1" and 1 1/2" sizes

OPTIONS

- Complying with current Transco specifications
- Can be supplied complying with PD5500 or ASME VIII design codes
- Pleated baskets for high filtration areas
- Reinforced baskets for withstanding high differential pressures
- Magnetic element assemblies
- Flanged connection for drain, vent and ancillary connections
- Steam, hot water or hot oil jackets
- Supplied with ancillary equipment such as DP gauges and switches, air release heads, valves for vent and drains etc
- Available in gunmetal, duplex stainless steel or special alloys
- 10" and 12" cast steel units available full ASME class 300 rating (51 BARG design)

DESIGN DATA

SIZE	CAST IRON BS 1452 GR220/260		CAST STEEL ASTM A216 WCB		STAINLESS STEEL BS 1504 316 C16	
	FLANGE RATING	DESIGN PRESSURE	FLANGE RATING	DESIGN PRESSURE	FLANGE RATING	DESIGN PRESSURE
1" & 1 1/2"	ASME 250 FF*	20.6 BARG	ASME 300 RF	34.4 BARG	ASME 300 RF	34.47 BARG
2", 3", 4" & 6"	ASME 250 FF	20.6 BARG	ASME 300 RF	51 BARG	ASME 300 RF	51 BARG
8"	ASME 250 FF	12 BARG	ASME 300 RF	51 BARG	ASME 300 RF	51 BARG
10" & 12"	ASME 125 FF	12 BARG	ASME 150 RF**	19.6 BARG	ASME 150 RF	19.0 BARG

ALL PRESSURES ARE BARG @ 38°C. NOTE: Design pressure will reduce by flange drilling to a lesser standard
 ** Also available with ASME 300 RF flanges @ 51/49.6 BARG design pressure. * Also available with screwed ends.

SIMPLEX TYPE-S FILTER 1" TO 1 1/2" (25-40mm) Screwed (cast iron only)

Size (Bore)	Model	A	B	C	D	E	F	Weight
In mm	No.	mm	mm	mm	mm	mm	BSPT	lb kg
1 25	SN-1	162	98	102	14	83	1/2"	11 5
1 1/2 40	SN-1.5	171	149	102	73	83	1/2"	13 6

SIMPLEX TYPE-S FILTER 1" TO 1 1/2" (25-40mm) Flanged

Size (Bore)	Model	A	B	C	D	E	F	Weight
In mm	No.	mm	mm	mm	mm	mm	BSPT	lb kg
1 25	SN-1	197	98	102	14	124	1/2"	18 8
1 1/2 40	SN-1.5	216	149	102	73	156	1/2"	28 12.5

SIMPLEX TYPE-S FILTER 2" TO 8" (50-200mm)

Size (Bore)	Model	A	B	C	D	E	F	Weight
In mm	No.	mm	mm	mm	mm	mm	BSPT	lb kg
2 50	SN-2	292	192	198	122	165	1 1/4"	51 23
3 75	SN-3	362	270	251	138	210	1 1/4"	101 45
4 100	SN-4	425	371	297	120	254	1 1/2"	181 82
6 150	SN-6	584	514	349	260	318	1 1/2"	435 197
8 200	SN-8	711	699	422	464	381	1 1/2"	800 364

SIMPLEX TYPE-S FILTER 10" TO 12" (250-300mm)

Size (Bore)	Model	A	B	C	D	E	F	Weight
In mm	No.	mm	mm	mm	mm	mm	BSPT	lb kg
10 250	SN-10	864	790	150-556	150-744	457	2"	990 450
12 300	SN-12	864	790	300-635	300-665	521	2"	1070 486

For larger pipe sizes or higher pressures refer to leaflets Simplex T-Type.

SELF DRAINING FILTERS - Also available are a range of cast self draining filters for use in multi product pipelines. The outlet is flush with the bottom of the body so that the filter body does not trap a pocket of fluid when the pipework is drained.

