



**AN SPX BRAND**

# Gas Filters



**SPX**<sup>®</sup>

With their Plenty Filters, SPX has established an enviable reputation in the International Gas Industry as a leading innovator, designer and manufacturer of gas filtration equipment. With the acquisition of Swinney Engineering, together with SPX GD Engineering specialised products, SPX can offer a comprehensive range of proven dry and wet gas filtration solutions specifically designed for gas applications.

SPX brand Plenty Filters has worked extensively within the International Gas Industry for over 75 years supplying a wide range of standard cast and fabricated filters and custom built gas filters for all areas of the gas distribution system, from the gas receiving stations, through the high pressure distribution system to the medium pressure regional networks and into the low pressure local distribution network.



SPX has extensive experience with carbon and stainless steels, duplex and other non ferrous alloys, with all filters designed and manufactured to meet PD 5500, E13 and PV3 requirements, under an ISO 9001:2008 Quality Management system.

The Plenty gas filtration range is based on proven element designs developed and tested specifically for the Gas Industry, including “Pafic” resin bonded glass fibre and “Adept” woven polypropylene fibre cartridges that give a high dirt loading capacity. Filter elements are available in various sizes enabling selection of the optimum size of vessel to meet the requirements for performance, space availability and capital cost.



SPX's experience in the gas industry extends beyond natural gas filtration for national distribution systems. SPX supplies Plenty brand equipment for major international transmission pipe lines for major consumers such as power stations, town gas and land fill, (methane) gas systems, as well as for applications in gas processing plants such as



LNG plants. SPX has successfully overcome specific problems including those associated with removal of pyrophoric dust from gas systems and supply a range of liquid removal separators, including; knock out pots, demister pads, vane separators, vertical separators, horizontal separators and cyclones.



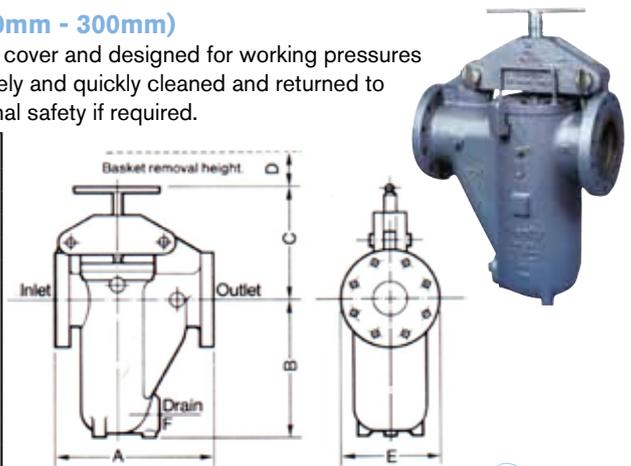
## Solid particle filters

SPX's Plenty range of standard design dry gas filtration is detailed below. All these units can be fitted with coarse woven wire mesh type elements or "Pafic" disposable cartridges for fine filtration as detailed on the back page. Custom built filters are available for other sizes, pressure ratings and duties, such as coalescing filters for liquid removal.

### Medium Pressure Gas Filters – Simplex S Type 2" - 12" (50mm - 300mm)

The Simplex Type S is a cast steel vertical filter fitted with a quick release cover and designed for working pressures up to 51 barg (740 psig). Supplied with one element the filter can be safely and quickly cleaned and returned to service. The filter closure can be fitted with secondary locking for additional safety if required.

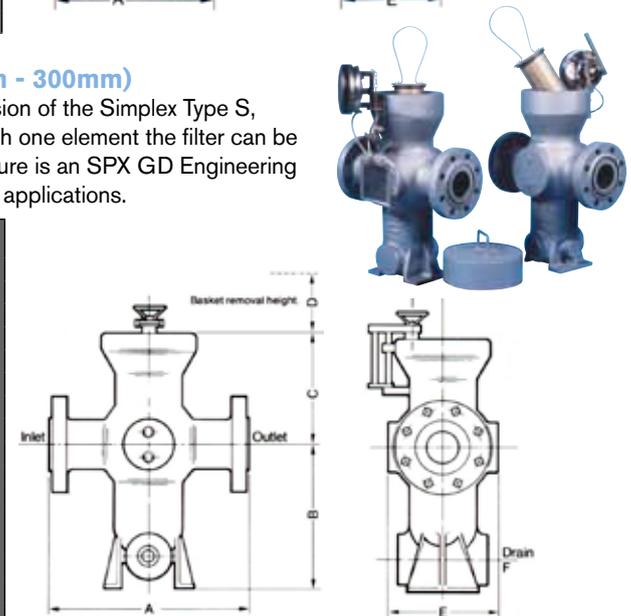
Size	Model No.	A mm	B mm	C mm	D mm	E mm	F BSPT	Weight kg	
50 mm 2"	SN-2	292	192	196	122	165	1¼"	23	Design Code: ASME VIII, PD5500 or Commercial Standard  Body Material: Cast Steel  Seals: Nitrile
75 mm 3"	SN-3	362	270	251	138	210	1¼"	45	
100 mm 4"	SN-4	426	371	297	120	254	1½"	82	
150 mm 6"	SN-6	584	514	398	260	318	1½"	197	
200 mm 8"	SN-8	711	698	502	384	381	1½"	364	
250 mm 10"	SN-10	864	790	635	673	457	2"	450	
300 mm 13"	SN-12	864	790	635	673	521	2"	486	



### High Pressure Gas Filters – Simplex T Type 2" - 12" (50mm - 300mm)

The Simplex Type T is a cast steel vertical filter and is a high pressure version of the Simplex Type S, designed for working pressures up to 149 barg (2160 psig). Supplied with one element the filter can be safely and quickly cleaned and returned to service. The quick release closure is an SPX GD Engineering 'Bandlock' closure having full safety interlocks designed for high pressure applications.

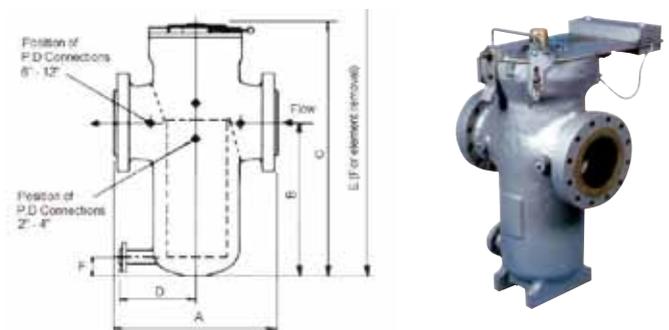
Size	Model No.	A mm	B mm	C mm	D mm	E mm	F BSPT	Weight kg	
50 mm 2"	TS-2Q	356	165	267	0	192	¾"	45	Design Code: ASME VIII, PD5500  Body Material: Cast Steel  Seals: Nitrile
75 mm 3"	TL-3Q	560	410	331	520	302	1"	220	
100 mm 4"	TN-4Q	560	410	331	520	302	1"	220	
150 mm 6"	TS-6Q	580	540	473	745	456	2"	455	
150 mm 6"	TL-6Q	660	738	507	918	560	2"	780	
200 mm 8"	TN-8Q	660	738	507	918	560	2"	808	
250 mm 10"	TS-10Q	660	738	507	918	560	2"	860	
300 mm 13"	TS-12Q	900	738	692	1200	790	2"	1305	



### High Pressure Gas Filters – Simplex J Type 2" - 10" (50mm - 250mm)

The Simplex Type J is a cast steel vertical filter and has been developed from the original Swinney high pressure filter, designed for pressures up to 102 barg (1480 psig). Supplied with one element the filter can be safely and quickly cleaned and returned to service. The quick release closure is a Swinney closure with safety interlocks designed for high pressure applications.

Size	A mm	B mm	C mm	D mm	E mm	F mm	Weight kg	
50 mm 2"	370	320	620	160	1050	62	102	Design Code: ASME VIII, PD5500  Body Material: Cast Steel  Seals: Nitrile
75 mm 3"	370	320	620	160	1050	62	130	
100 mm 4"	370	320	620	160	1050	62	152	
150 mm 6"	660	610	1095	290	1900	82	484	
200 mm 8"	660	610	1095	290	1900	82	533	
250 mm 10"	660	1160	1640	290	2980	82	610	



### High Pressure Gas Filters – H Type 12" & Larger

The H Type is a fabricated horizontal filter designed for larger capacities and pipe connection sizes that may be custom designed to suit site connections, it is also available in standard configurations. The H Type is fitted with an SPX GD Engineering Bandlock quick release closure for pressures up to 100 barg (1440 psig). Supplied with either two or three triple length elements servicing time is minimised. The welded construction enables the inlet and outlet connections to be radially positioned to suit site.



## Plenty Pafic Elements

The Plenty Pafic element was designed in order to guarantee no dirt by-pass during operation and element replacement. The Pafic depth type element is manufactured from resin bonded glass fibre and as the gas flows through the element the dirt is captured and held throughout the depth of the element. Because the dirt is removed throughout the whole depth of the element, it has excellent dirt holding capability and a long operating life. The gas flow is from the inside to outside so that any large particles are captured inside the element and are thus removed when the element is taken out for replacement.



- Depth filtration media:
  - Long element life
  - Dirt is captured and can not be dislodged
- Flow from inside to outside:
  - Large particles are removed during cleaning
  - No possibility of dirt by-pass
- One piece bonded media:
  - Elimination of potential breakdown of construction
  - Low cost of operating spares



# SPX®

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For more information about our worldwide locations, approvals, certifications, and local representatives, please visit [www.plentyfiltration.net](http://www.plentyfiltration.net)

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