

CYCLONIC WATER SEPARATORS

SPC

CONDENSATE SEPARATION AND FILTRATION

Cyclonic water separators with float drain

- **Isolates** and **eliminates** the largest solid particles and **water droplets** in condensed air systems.
- An internal **cyclonic design** drives the compressed air in a rotational movement to **push particulates** and **water droplets** against the wall of the tank using **centrifugal force**.
- Condensates are removed via an **automatic float drain**.
- **Efficiency** greater than **98%** at a nominal flow rate of 101.5 psi and 68° F.
- **Max working pressure:** 232 psi
- **Max working temperature:** 160° F



Air flow in a SPC cyclonic separator

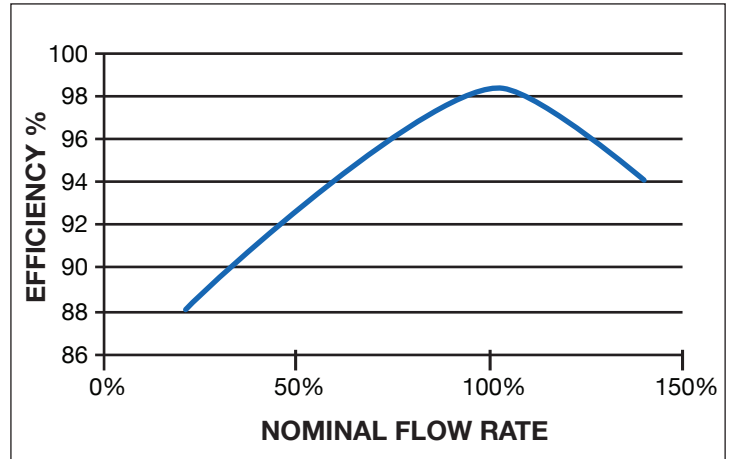


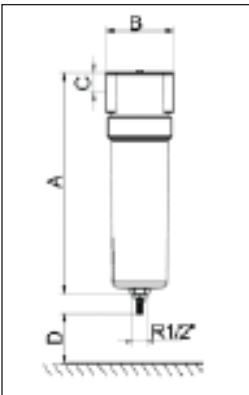
SPC APPLICATIONS:

- Compressor outlet
- Tank outlet
- Pre-filter for refrigerated dryers
- Pre-filter for submicron filters

TECHNICAL SPECIFICATIONS

- **Max. pressure:** 0 - 232psi
- **Temperature:** 35° F to 149° F
- **Body construction:** Anodized Aluminum
- **External coating:** Polyester-based epoxy paint
- **Tank gasket material:** NBR
- **Cyclone component:** PA6 30% glass fibre, Steel
- **Separation:** Greater than 98% at nominal flow rate and at 101.5 psi, temperature 68°F, particle size from 10 µm to 50 µm.



	PART #	FEMALE THREAD NPT	FLOW RATE IN CFM	TANK VOLUME IN OZ.	WEIGHT	A IN.	B IN.	C IN.	D IN.
	SPC 155T	½" FNPT	91	15.9 oz.	1.5 lb	7.3"	3.5"	.8"	2.4"
	SPC 235T	¾" FNPT	138	20.3 oz.	1.8 lb	10"	3.5"	.8"	3.1"
	SPC 365T	1" FNPT	215	53 oz.	4.0 lb	10.3"	5"	1.26"	4"
	SPC 770T	1 ½" FNPT	452	94.7 oz.	5.5 lb	18"	5"	1.26"	5.5"
	SPC 1280T	2" FNPT	753	202.9 oz.	11.2 lb	27"	6.4"	1.7"	20.4"

OPERATING PRESSURE

To calculate the actual capacity of the separator as a function of the system pressure, multiply the given nominal flow rate by the correction factor (C_{op}) in the table below.

(bar)	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
(psi)	29	44	58	72	87	100	115	130	145	160	174	189	203	218	232
C _{op}	0,38	0,5	0,63	0,75	0,88	1	1,13	1,25	1,38	1,50	1,63	1,75	1,88	2,00	2,13

Note

Separators and filters do not achieve totally water-free air.

It is essential to use a compressed air dryer to eliminate water from the air.