

# STAINLESS STEEL MICROFILTERS



**Industrial Grade Stainless Steel Filters Incorporate the unique pleated microfilter technology for use in aggressive gas & high-tech applications.**

# Stainless Steel Microfilters

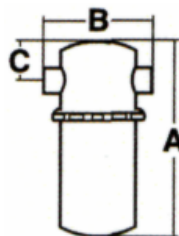
## Housing Features:

- Code 7 "Click-lock" system with double 'O' ring and bayonet for positively locating the element.
- The 'O' ring eliminates possibility of particle or liquid bypass therefore insuring filtration integrity.
- Highly-polished housing surfaces without edges or corners. (RA .8)
- High-quality 304 (optional 316L) stainless steel construction means no fouling or corrosion and long service life.
- Plenum chamber design improves drainage from the filter housing when used to coalesce liquids.
- Vents tapped 1/4" FNPT.
- May be used with depth media Series V, Z, Y, X and A. Universally acceptable for all applications.
- Max. operating pressure 232 psig (higher operating pressure housings available upon request).
- EPDM housing seal. Other elastomers available.
- Available as connection type: BSP, NPT, Sanitary Clamp, Milk Pipe, Welded Edge, Flange, SMS, Socket Weld.

Filter Model**	Element Model**	Capacity scfm	Conn.	Dimensions * inches			Max. Op. Pressure psig
				A	B	C	
		100 psig					
S02**	**09T	53	1/4"	8.7	4.3	2.2	232
S05**	**09T	65	3/8"	8.7	4.3	2.2	232
S07**	**09T	88	1/2"	8.7	4.3	2.2	232
S09**	**09T	118	3/4"	8.7	4.3	2.2	232
S11**	**1ST	171	1"	12.3	5.3	3	232
S12**	**1ST	224	1 1/4"	12.3	5.3	3	232
S13**	**1ST	294	1 1/2"	12.3	5.3	3	232
S14**	**14T	459	2"	19.1	6.7	3.2	232
S15**	**1ST	677	2"	31.2	6.7	3.2	232
S18**	**18T	853	2 1/2"	31.2	7.9	4.3	232
S19**	**19T	1148	3"	41.6	7.9	4.3	232

\*Dimensions are for butt weld connections

\*\*Insert appropriate filter designation (V, Z, Y, X, or A) in place of "\*\*"



All design specifications are subject to change without notice.

## The Elements

The Microfilters are designed to work efficiently on their own or in several combinations depending on the application.

### Microfilter series V

The prefilter range removes particles from the compressed air or gas streams to 3 micron @ 99.99% efficiency.

Fine particles smaller than 3 micron, such as dust and oil aerosols, must be filtered out by a coalescing filter. This is where the high efficiency depth Microfilter series with its various grades are used.

### Microfilter series Z

Efficiency 99.99% at 1 micron. Oil retention to  $\leq 0.5$  ppm at 100 psig and 68°F.

### Microfilter series Y

Efficiency 99.99% at 0.01 micron. Oil retention to  $\leq 0.1$  ppm at 100 psig and 68°F.

### Microfilter series X

Efficiency 99.9999% at 0.01 micron. Oil retention to  $\leq 0.01$  ppm at 100 psig and 68°F.

*If an even better quality of compressed air than the series X filter is required to remove the oil vapors, then an adsorption type filter is required.*

### Microfilter series A

The Microfilter series A incorporates an activated carbon bed which adsorbs oil vapor. It is always preceded by a Microfilter series X to remove oil aerosols.