

Installation and operating manual

SWS - Water Separator



Safety instruction

- Depressurize the system before carrying out any work on the piping.
- Installation and maintenance work may only be carried out when filter is not under pressure.
- Installation and maintenance work may only be carried out by trained and experienced stuff.
- Do not exceed max. operating pressure or operating temperature range (see data label).
- Use original spare parts only.
- Use filter for the appropriate purpose only.

Proper Application

The SWS series water separator is a crucial component in compressed air systems, with its primary function being the separation of liquid water particles from the airflow. Correct installation and use of this equipment significantly impact the efficiency and lifespan of other system components, such as dryers, filters, pneumatic equipment, and precision instruments. Improper or incorrect use will not only cause system malfunctions but also void the device's warranty.

Appropriate uses and applications are as follows:

- Installation before filters and refrigerated or desiccant dryers.
- Use at the inlet of compressed air distribution lines in a factory or workshop.
- Installation at the compressor outlet before or after the tank (depending on system design).
- Use within specified temperature conditions.
- Adherence to the flow direction indicated on the separator body.
- Not to be used as a filter for removing solid particles or oil vapor.
- Do not install in a line where the working pressure is below or exceeds the specified limit.
- Regularly drain water from the bottom of the separator (if an auto-drain is not present).
- Installation in well-ventilated areas or away from excessive heat sources.
- Do not use the device when it is clearly defective.

Technical Data

Model	Pipe Size inch	Flow Rate			Dimension (mm)			Pressure Range bar	Temp Range °C
		l/s	m³/min	cfm	W	H	A		
SWS 126	1/2	35,0	2.1	74,2	109	396	28	5 - 13	1,5 - 65
SWS 180	3/4	50,0	3	105,9	109	396	28	5 - 13	1,5 - 65
SWS 330	1	91,6	5.5	194,2	109	396	28	5 - 13	1,5 - 65
SWS 540	1 - 1/4	149,9	9	317,8	109	396	28	5 - 13	1,5 - 65
SWS 750	1 - 1/2	208,3	12.5	441,4	109	396	28	5 - 13	1,5 - 65
SWS 450 200	2	333,2	20,0	706,3	175	680,0	130	5 - 18	1,5 - 85
SWS 450 300	3	499,8	30,0	1059,4	210	765,0	130	5 - 18	1,5 - 85
SWS 450 500	3	833,0	50,0	1765,7	210	925,0	130	5 - 18	1,5 - 85

Pressure	Barg	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
	Psig	15	29	44	59	73	87	100	116	131	145	160	174	189	203	218	232
Correction Factor		0.38	0.53	0.65	0.63	0.85	0.93	1	1.07	1.13	1.19	1.23	1.31	1.36	1.41	1.46	1.51

