

Spirax-Monnier Products

General Safety, Installation and Maintenance Guidelines

WARNING

As with all Pressurised Systems, do NOT attempt ANY Installation or Maintenance function if there is ANY pressure in the product or connected system.

Spirax-Monnier

Spirax Monnier compressed air products are of well proven and simple design, with high natural levels of designed safety built in. However, used or installed incorrectly, their performance and that of the system they are protecting or controlling, may suffer. The information given indicates the product limiting conditions, maintenance and installation requirements and any specific component disposal needs.

Product Maintenance - See Over

Installation and Operation

1. Filters, Filter/Regulators, Lubricators, Flow Meters, Separators and Drain Traps should be fitted in horizontal pipelines, with the bowls vertically downwards.
2. Regulators and Ball Valves can be installed in any position.
3. On Pressure Regulators and combined Filter/regulators, a Pressure Gauge can be connected to one of the 1/8" ports. The gauge should be selected to cover the maximum pressure range of the main Control Spring. The gauge will indicate the downstream or controlled pressure.

4. Ensure that the Control Spring range for Regulators and Filter/Regulators fully meets the pressure requirements of the system.
5. There are Maximum Operating Pressures, and Maximum Operating and Environmental Temperatures for each product. These are shown in the table below.
6. Adequate space should be provided around any product to allow easy access for routine servicing requirements.
7. Products fitted with a Bowl (Polycarbonate or Metal) should be adequately drained - manually or automatically - to reduce the potentially harmful effects of water carryover.
8. **WARNING** Polycarbonate Bowls and Sight Domes, and Sight Levels fitted to Metal bowls, may be attacked by Phosphate Ester based fluids, Solvents, Chemical cleaners, Carbon Tetrachloride, etc. These and other similar substances should never be allowed to come into contact with these product components. Certain compressor lubricating oils also contain additives harmful to these components. Where there is any doubt, we recommend, in the interests of safety, that Bowl Guards or Metal Bowls are fitted.
9. Local regulations may restrict the use of this product below the conditions quoted.
10. For more detailed information on any individual product, please ask for the appropriate Technical Information Sheet listed in the table.

MAXIMUM PRESSURES/TEMPERATURES

FILTERS

	Polycarbonate Bowl		Metal Bowl		Metal Bowl with Sight level		DISPOSAL CLASS	TI(TIS)
	bar	°C	bar	°C	bar	°C		
MF2	10	50	-	-	-	-	1 & 3	P050-05 (7.580)
IF2/D/A	10	50	17	80	17	70	1 & 2	P500-01 (7.500)
IC3/4/DA	10	50	17	80	17	70	1 & 2	P501-01 (7.520)
IXI	10	50	17	70	17	70	1 & 2	P057-01 (7.522)
SF3/A	-	-	17	80	17	70	1 & 3	P050-03 (7.562)

REGULATORS

MR1/2/3	21 bar 70°C : CONTROL RANGES : 0.2/2. 0.3/4, 0.7/9 bar						1 & 3	P051-01 (7.582)
IRI	20 bar 70°C : CONTROL RANGES : 0.2/3.5, 0.5/1 bar						1 & 2	P058-01 (7.502)
SR2	21 bar 70°C : CONTROL RANGES : 1.3 - 17.0 bar						1 & 3	P570-01 (7.564)
SR3	21 bar 70°C : CONTROL RANGES : 0.2/4, 0.3/9 bar						1 & 3	P570-03 (7.566)

FILTER REGULATORS

IP2/A/D	10	50	17	80	17	70	1 & 2	P510-01 (7.504)
	RANGES : 0.2/3.5, 0.5/10 bar							
MP2	10	50	-	-	-	-	1 & 3	P054-01 (7.584)
	RANGES : 0.2/2.0, 0.3/4.0, 0.7/9.0 bar							
MPC2	10	50	-	-	-	-	-	
	RANGES : 0.2/2.0, 0.3/4.0, 0.7/9.0 bar						1 & 3	P054-04 (7.588)

LUBRICATORS

ML3	10	50	-	-	-	-	1 & 3	P052-07 (7.586)
IL1	10	50	17	80	17	70	1 & 2	P059-01 (7.506)
SL3	-	-	17	80	17	70	1 & 3	P052-04 (7.570)

OTHER PRODUCTS

IFM2	10	50	-	-	-	-	1 & 2	P580-01 (7.540)
S.M.S.	-	-	17	70°C	-	-	1 & 3	P050-17 (7.604)
BALL VALVES (all)	all to 15 bar & 45°C (see performance graph on TIS for full details)						1 & 4	P560-01 (7.601)
DRI-LINE	-	-	16	80°C	-	-	1 & 3	P050-07 (7.600)

DISPOSAL

1. Some plastic and/or rubber components
2. Main body Zinc - epoxy coated
3. Main body Aluminium - epoxy coated
4. Brass and Steel
5. Electronic Components

Note

Customers are reminded that under UK and EC Health, Safety and Environmental Law, when returning products to Spirax Sarco they must provide information on any hazards and the precautions to be taken due to contamination residues or mechanical damage which may present a health, safety or environmental risk. This information must be provided in writing including Health and Safety data sheets relating to any substances identified as hazardous.

Spirax Monnier SMS Compressed Air Separator

How to fit

Install with the air flow in the direction of the arrow and the bowl vertically downwards.

How does it work

Contaminated air (1) is directed onto the inside of the bowl (2) by the special whirl disc (3). The separated liquid (water and oil) and solids pass to the sump area, for automatic discharge via a trap. The clean air then passes down the discharge pipe (5) into the system (6).

Automatic drainage

The Spirax-Monnier separator can be automatically drained by a variety of drain traps. The choice of trap will depend upon the type of system to which the separator is fitted, the limiting conditions and the contamination found in the condensate. Traps can be connected directly to the separator drain port, or at the end of discharge pipework.

Trap options

Float: Spirax Sarco ½" or ¾" CA14

Float: Spirax Monnier ½" Dri-line

Disc: Spirax Sarco ½" Airoidyn

Electronic: EDT1 ¾"

See TI-P144-01 (TIS 7.317)

See TI-P050-18 (TIS 7.300)

See TI-P016-02 (TIS 7.303)

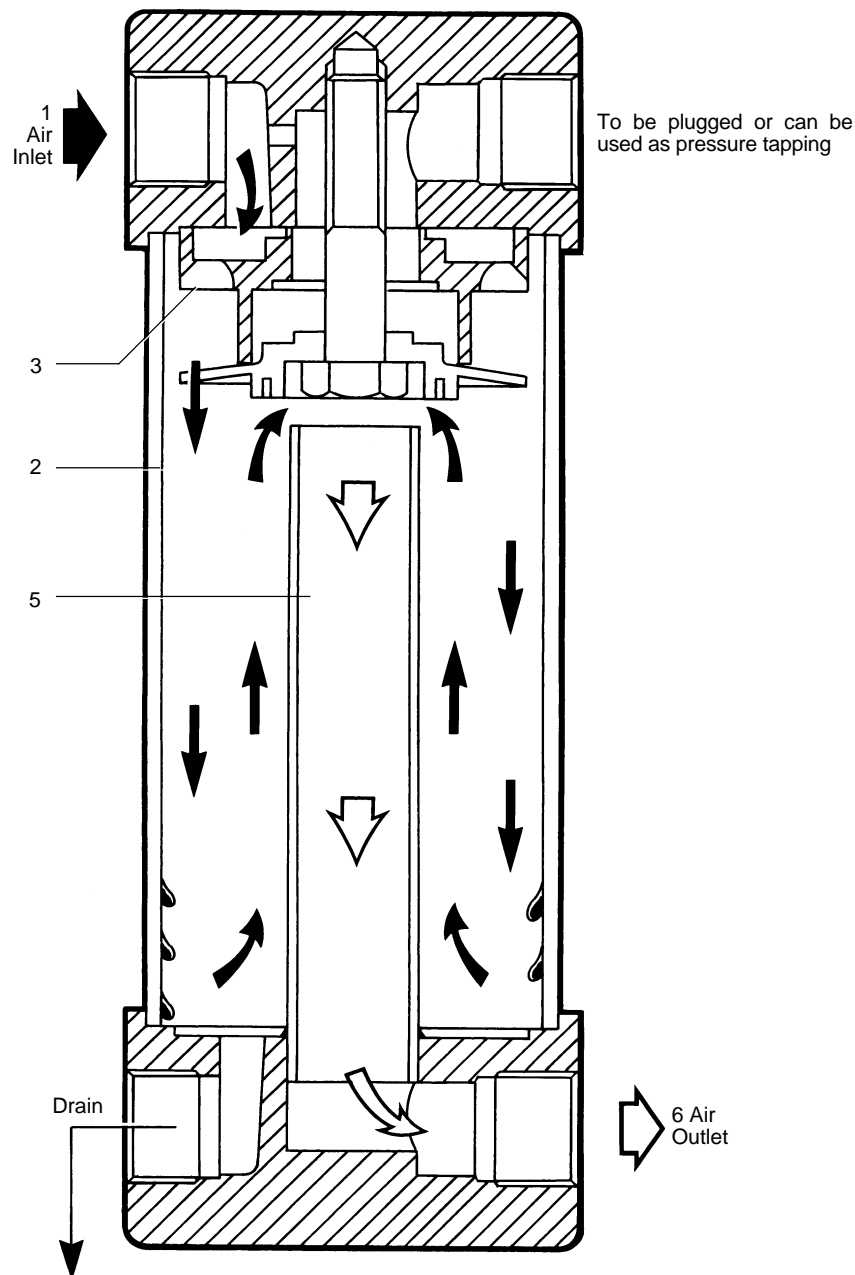
See TI-P509-01 (TIS 7.605)

See TI-P509-02 (TIS 7.606)

To service

The SMS is a sealed unit. Contamination (oil, dirt and water) is normally discharged through the appropriate drain trap. If the build up of internal contamination become excessive (sufficient to impair the units performance) cleaning is required.

Remove the unit from the system. Pour a solution of hot water (about 60°C and soluble degreasing agent, through the unit until the internal surfaces are clean. Rinse with warm water, and dry by blowing compressed air in through the separator.



spirax/sarco