Spirax Monnier IF International Compressed Air Filter

Spare parts

AVAILABLE SPARE	
Bowl Assembly including appropriate drain State polycarbonate, or metal (with or without sight level)	A,B
Element Set (Packet of 3 of each) 5µm	B,C
Auto Drain	W,W1

How to order

Example — 1 Polycarbonate Bowl Assembly for ½" Spirax- Monnier IF2D.

Conversion Kit 7

To convert a manual drain (IF2) or dump valve (IF2D) into an automatic drain model (IF2A). Conversion Kit 7 and an auto drain are required.

Distance Piece	A1
'O' Ring Seal for Distance Piece and Bowl	B1(2)

How to fit conversion kit 7

1. Ensure air pressure in bowl is zero.
2. Unscrew bowl A discarding existing bowl 'O' ring B.
3. Remove existing manual drain or dump valve by unscrewing retaining ring W1.
4. Clean bowl using only soap and water. Dry thoroughly.
5. If element is fitted with short spigot R, remove spigot flush with underside of baffle.
6. Screw on distance piece A1 with 'O' ring B1.
7. Insert auto drain W making sure internal seal U is in place.
8. Tighten retaining ring W1 and position float.
9. Replace bowl using new bowl 'O' ring B1.

To Service Filter

Shut off air. Remove bowl guard if fitted. Release pressure by opening manual drain or gently unscrewing the bowl until pressure relieves. Remove bowl and unscrew element assembly. Wipe all parts clean using soap and water. Dry thoroughly. Replace in reverse order using new filter element (if necessary) and 'O' rings.

How does it work

Contaminated compressed air (1) is directed onto the inside of the bowl (2) by the shrouded whirl disc (3). This preliminary separation allows most of the liquids and solids to pass down into the sump (4) away from any turbulence. The air is then filtered by the nylon mesh element (5) before passing into the system. Ensure that the bowl is regularly drained by either the dump drain valve (6) (IF2D) the manual drain (7) (IF2 metal bowl) or the auto-drain (8) (IF2A).

Auto-Drain

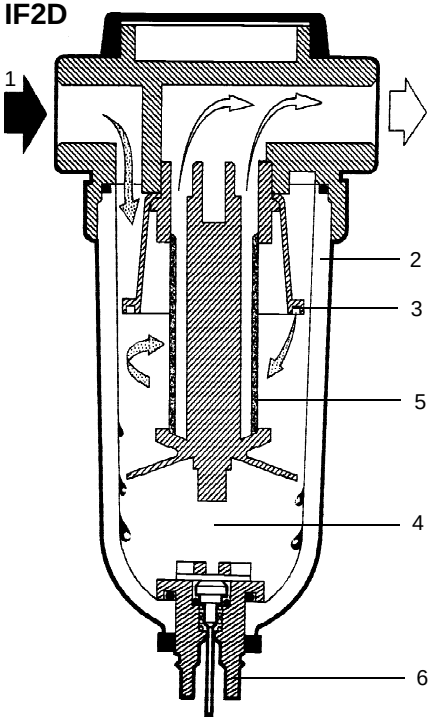
The Spirax-Monnier internal auto-drain is a pilot operated unit. As the water level in the bowl rises, the float (13) lifts, allowing line pressure to act on a piston, which opens the main discharge valve. As the liquid level falls, the float closes the pilot valve and line pressure shuts the main valve. Under zero pressure conditions, the automatic drain will be in the open position, allowing any liquid to drain away.

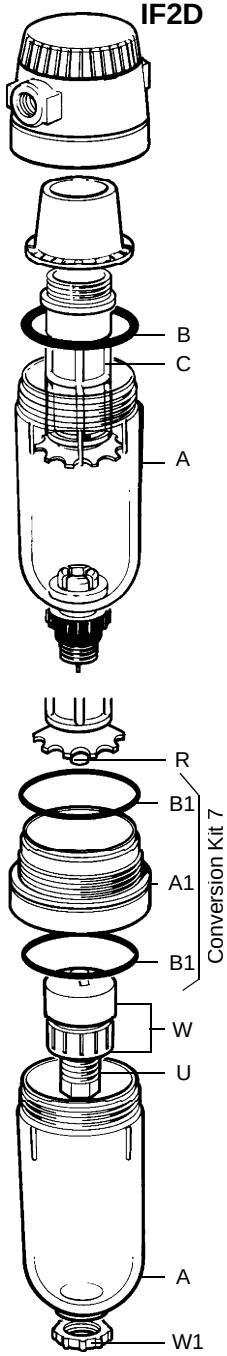
Dump Valve

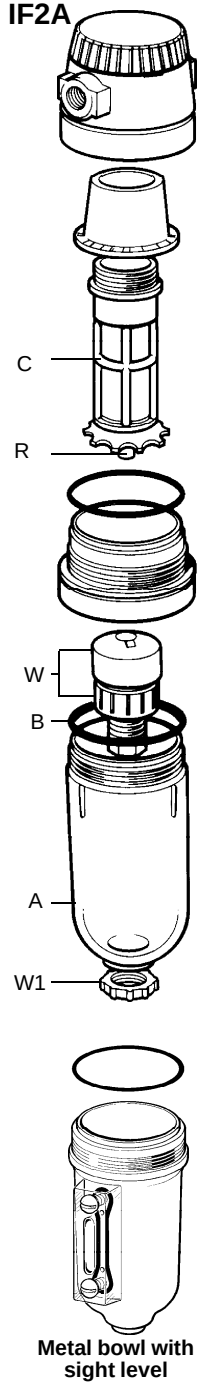
This is a spring loaded valve which will allow the Filter to automatically drain when the pressure in the bowl drops below 0.06 bar (i.e. when air to the plant is shut off).
The unit can also be drained manually by pushing the protruding valve stem sideways or upwards.

Warning

Polycarbonate bowls and sight levels on metal bowls can be attacked by phosphate ester fluids, solvents, paint thinners and carbon tetrachloride. These and similar substances should never be allowed to come into contact with the bowl. Certain compressor lubricating oils also contain additives harmful to polycarbonate and where there is any doubt we recommend, in the interest of safety that a metal bowl or bowl guard be fitted.


IF2D
1
2
3
5
4
6
IF2A
7
IF2 (metal bowl)


IF2D
B
C
A
R
B1
A1
B1
Conversion Kit 7
W
U
A
W1


IF2A
C
R
W
B
A
W1
Metal bowl with sight level

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 allow 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.

For Maximum Pressures/Temperatures see overleaf

MAXIMUM PRESSURES/TEMPERATURES

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

REGULATORS

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

FILTER REGULATORS

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

LUBRICATORS

ML3	10	50	-	-	-	-	1 & 3	P052-07
IL1	10	50	17	80	17	70	1 & 2	P059-01
SL3	-	-	17	80	17	70	1 & 3	P052-04

OTHER PRODUCTS

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

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.