

bit FILTER

The units in the **bit** range feature:

- reduced dimensions
- negligible load loss
- long life
- excellent quality-to-price ratio

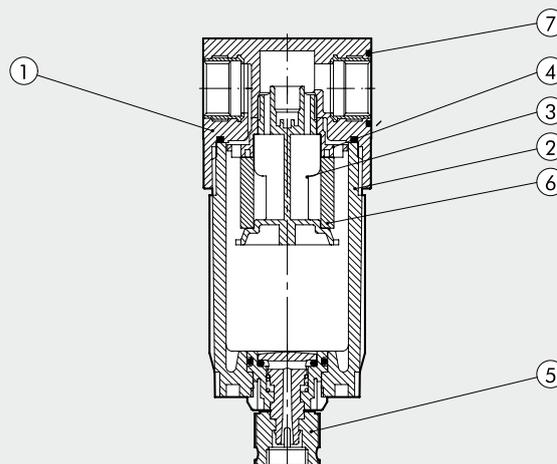
Thanks to its technical features the **bit** air treatment range is particularly suitable for de-centralized use near the final actuators.



TECHNICAL DATA	BIT 1/8"		BIT 1/4"	
	1/8"		1/4"	
Threaded port	1/8"		1/4"	
Degree of filtration	5 (yellow) 20 (white) 50 (blue)			
Max. inlet pressure	MPa	1.3		
	bar	13		
	psi	188		
Flow rate at 6.3 bar (0.6 MPa to 91 psi) ΔP 0.5 bar (0.05 MPa to 7 psi)	Nl/min	860		
	scfm	30.5		
Flow rate at 6.3 bar (0.6 MPa to 91 psi) ΔP 1 bar (0.1 MPa to 14 psi)	Nl/min	1200		
	scfm	42.5		
Max temperature at 1 MPa; 10 bar; 145 psi	°C	50		
	°F	122		
Weight	g	40		
Wall fixing screws	M4 by means of the bracket provided			
Bowl capacity	cm ³	16		
Mounting position	Vertical			
Condensate drain	RMSA: drain with manual condensate discharge and automatic discharge at zero pressure SAC: automatic drain with condensate discharge .			
	Operates by pressure drop – requires variable air take-offs.			
Fluid	Compressed air			

COMPONENTS

- ① Technopolymer body with OT58 threaded element
- ② Clear technopolymer bowl
- ③ Technopolymer baffle plug
- ④ Technopolymer centrifuge
- ⑤ Condensate drain (RMSA)
- ⑥ HDPE sintered filter cartridge
- ⑦ NBR gaskets



FLOW CHARTS

FIL

$\Delta P = (P_m - P_v)$
psi kPa bar

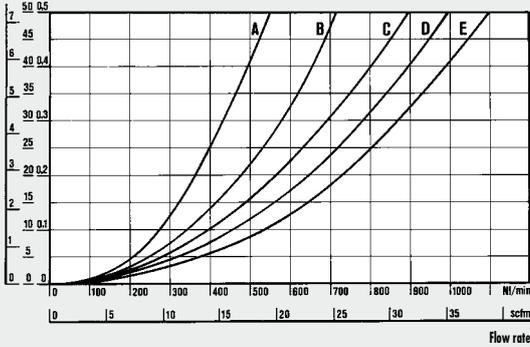
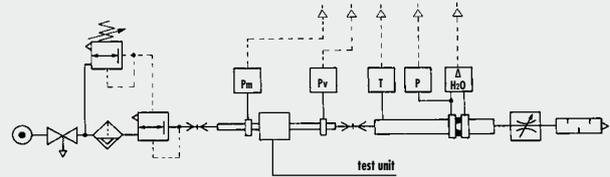


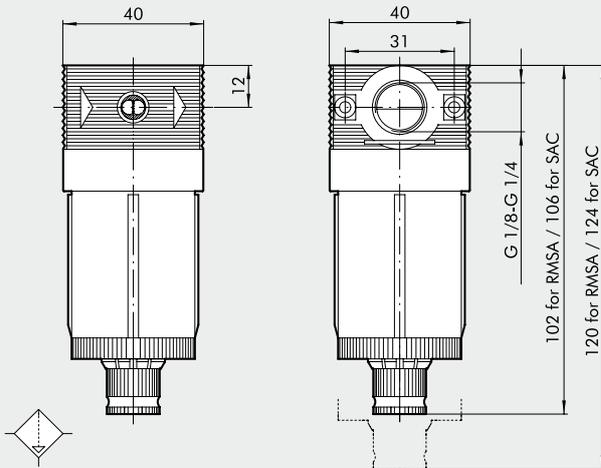
Chart referring to a filter with 1/4 ports



• Flow tests carried out at the Department of Mechanics, Turin Polytechnic, using the computerized test bench following CETOP RP50R recommendations (ISO DIS 6358-2-approved) with ISO 5167 diaphragm gauge.

- (A) = 2 bar - 0.2 MPa - 29 psi
- (B) = 4 bar - 0.4 MPa - 58 psi
- (C) = 6 bar - 0.6 MPa - 87 psi
- (D) = 8 bar - 0.8 MPa - 116 psi
- (E) = 10 bar - 1 MPa - 145 psi

DIMENSIONS



ORDERING CODES

Code	Description
5101001	FIL BIT 1/8 5 RMSA
5101004	FIL BIT 1/8 5 SAC
5101002	FIL BIT 1/8 20 RMSA
5101005	FIL BIT 1/8 20 SAC
5101003	FIL BIT 1/8 50 RMSA
5101006	FIL BIT 1/8 50 SAC
5201001	FIL BIT 1/4 5 RMSA
5201004	FIL BIT 1/4 5 SAC
5201002	FIL BIT 1/4 20 RMSA
5201005	FIL BIT 1/4 20 SAC
5201003	FIL BIT 1/4 50 RMSA
5201006	FIL BIT 1/4 50 SAC

SYNOPTIC, SIZES AND VERSIONS

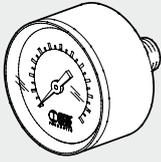
FIL ELEMENT	BIT SIZE	1/8 THREADED PORT	5 DEGREE OF FILTRATION	RMSA CONDENSATE DRAIN
FIL	BIT	1/8 1/4	5 = 5 µm 20 = 20 µm 50 = 50 µm	RMSA SAC

RMSA: drain with manual condensate discharge and automatic discharge at zero pressure.
SAC: automatic drain with condensate discharge.
Operates by pressure drop – requires variable air take-offs.

bit ACCESSORIES

ACCESSORIES FOR STANDARD bit AND SERIES F bit FOR WATER

PRESSURE GAUGE



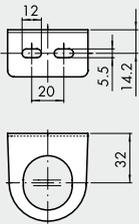
Code	Description
9700102 *	M 40 1/8 04
9700101 *	M 40 1/8 012



9700109 *	M 40x40 1/8 04
9700110 *	M 40x40 1/8 012

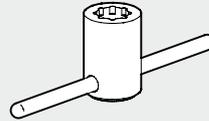
* Cannot be used with water

R/FR FIXING BRACKET



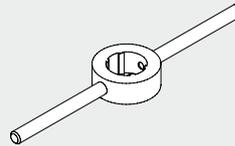
Code	Description
9200701	SF100 - BIT - ND 1/4 - SY1

DOME DISASSEMBLY SPANNER



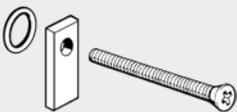
Code	Description
9220701	Cover LUB spanner

COVER DISASSEMBLY SPANNER



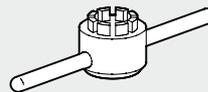
Code	Description
9170401	CS CS BIT

ASSEMBLY PLATE (PAIR)



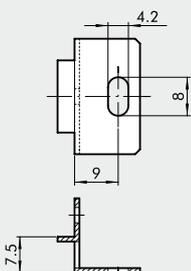
Code	Description
9170201	PAB 1/8 - 1/4 BIT

REDUCER PLUG DISASSEMBLY SPANNER



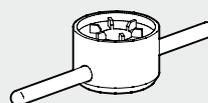
Code	Description
9170501	CS OTR BIT

WALL MOUNTING BRACKET (PAIR)



Code	Description
9170301	SFB 1/8 - 1/4 BIT

BOWL DISASSEMBLY SPANNER



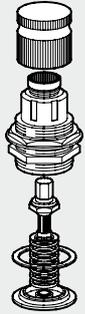
Code	Description
9170601	CS TF - TL BIT - SY1

bit SPARE PARTS



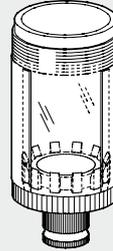
SPARE PARTS FOR STANDARD bit

UPPER COVER FOR MR



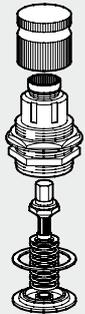
Code	Description
9250805	Spares CS 1/8 1/4 BIT 02
9250806	Spares CS 1/8 1/4 BIT 04
9250807	Spares CS 1/8 1/4 BIT 08
9250808	Spares CS 1/8 1/4 BIT 012

FILTER AND FILTER-REGULATOR BOWL



Code	Description
9255001	Spares TF 1/8 1/4 BIT RMSA
9255101	Spares TF 1/8 1/4 BIT SAC

UPPER COVER FOR MR FC



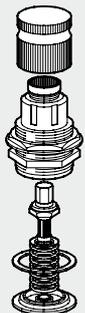
Code	Description
9250817	Spares CS FC 1/8 1/4 BIT 02
9250818	Spares CS FC 1/8 1/4 BIT 04

AUTOMATIC DRAIN (SAC)



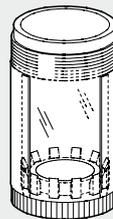
Code	Description
9000803	Spares SAC automatic drain

UPPER COVER FOR MRA



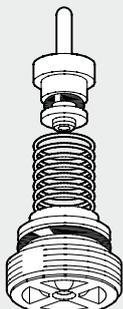
Code	Description
9250809	Spares CSA 1/8 - 1/4 BIT 02
9250814	Spares CSA 1/8 - 1/4 BIT 04
9250815	Spares CSA 1/8 - 1/4 BIT 08
9250816	Spares CSA 1/8 - 1/4 BIT 012

LUBRICATOR BOWL



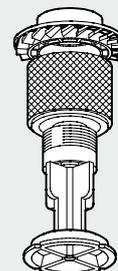
Code	Description
9251402	Spares TL 1/8 1/4 BIT

COMPLETE POPPET FOR MR AND MRA



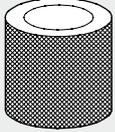
Code	Description
9250705	Spares poppet for MR
9250706	Spares poppet for MR-SR (rapid drain)
9250708	Spares poppet for MRA

FILTER ELEMENT



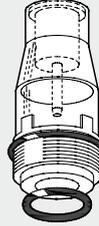
Code	Description
9251708	Spares FP 1/8-1/4 BIT 5 (yellow)
9251709	Spares FP 1/8-1/4 BIT 20 (white)
9251710	Spares FP 1/8-1/4 BIT 50 (blue)

FILTER CARTRIDGE



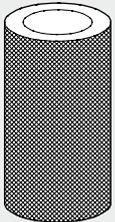
Code	Description
9251808	Spares filter cartridge BIT 5 (yellow)
9251809	Spares filter cartridge BIT 20 (white)
9251810	Spares filter cartridge BIT 50 (blue)

TRANSPARENT LUBRICATOR COVER



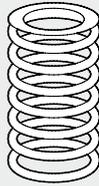
Code	Description
9251302	Spares CVL 100-200-300-400 BIT

DEPURATOR FILTER ELEMENT



Code	Description
9251712	Spares FP DEP. 1/8 1/4 BIT

SPRING FOR MR, FR



Code	Description
9250610	Spares MO 02 BIT
9250611	Spares MO 04 BIT
9250612	Spares MO 08 BIT
9250613	Spares MO 012 BIT

COMPLETE POPPET FOR FR



Code	Description
9250905	Spares OTFR 1/8 1/4 BIT 5 (yellow)
9250906	Spares OTFR 1/8 1/4 BIT 20 (white)
9250907	Spares OTFR 1/8 1/4 BIT 50 (blue)

NOTES

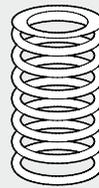
SPARE PARTS FOR SERIES F bit FOR WATER

FILTER ELEMENT



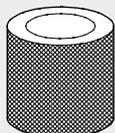
Code	Description
9251709	Spares FP 1/8-1/4 BIT 20 (white)

SPRING FOR REG F, FR F



Code	Description
9250610	Spares MO 02 BIT
9250611	Spares MO 04 BIT
9250612	Spares MO 08 BIT
9250613	Spares MO 012 BIT

FILTER CARTRIDGE



Code	Description
9251809	Spares filter cartridge BIT 20 (white)

NOTES

GENERAL TECHNICAL DATA **bit**

The units in the **bit** range feature:

- reduced dimensions
- negligible load loss
- long life
- excellent quality-to-price ratio

Thanks to its technical features the **bit** air treatment range is particularly suitable for de-centralized use near the final actuators.



TECHNICAL DATA

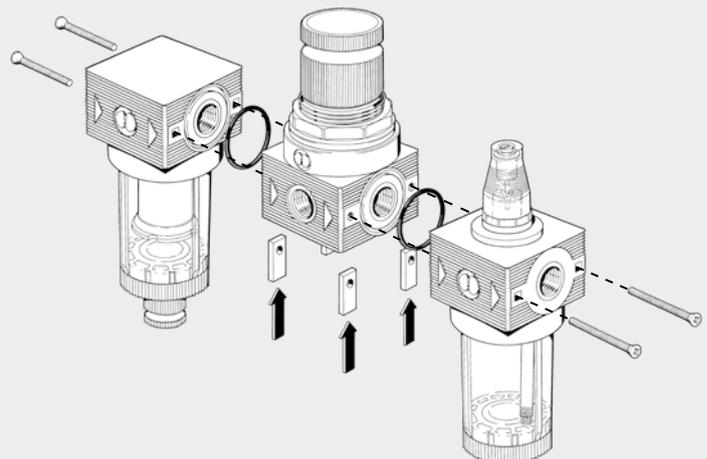
		BIT 1/8"	BIT 1/4"
Threaded port		1/8"	1/4"
Degree of filtration	µm	5 (yellow) 20 (white) 50 (blue)	
Degree of purification		99.97% α 0.01 µm	
Setting range	bar	0 to 2 - 0 to 4 - 0 to 8 - 0 to 12	
Max. inlet pressure	MPa	1.3	
	bar	13	
	psi	188	
Flow rate at 6.3 bar (0.63 MPa to 91 psi) ΔP 0.5 bar (0.05 MPa to 7 psi)	Nl/min	350	
	scfm	12	
Max temperature at 1 MPa; 10 bar; 145 psi	°C	- 10° to + 50°	
	°F	14° to 122°	
Elements		Filter - Regulator - Lubricator - Filter-regulator - Depurator Units: FRL, FR + L, F + L, F + D	
Mounting		By means of the bracket provided	
Fluid		Compressed air	
Compatibility with oils		See chapter Z1	

ASSEMBLY

Use ASSEMBLY PLATES (code 9170201) to assemble the **bit** elements correctly.

Assembly procedure:

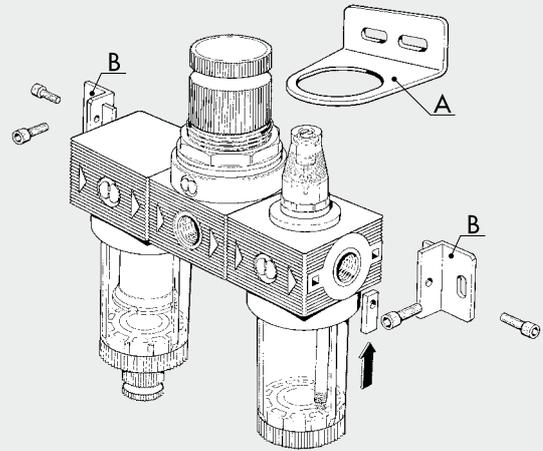
- Fit the plates right into the slots under the body of the **bit** element
- Check that there O-rings round the threaded outlet
- Assemble the elements, making sure that the flow run in the direction of the arrows marked on the body.



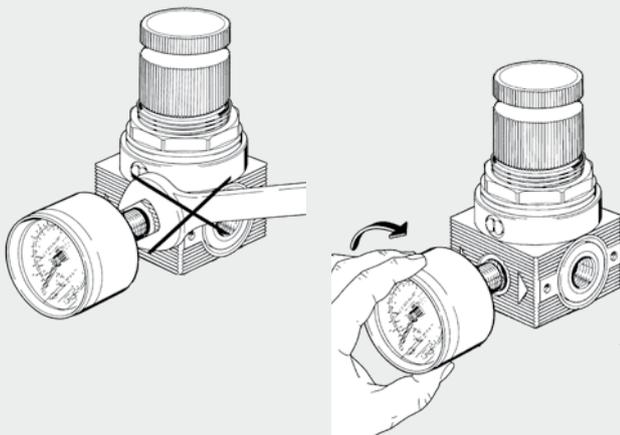
WALL MOUNTING

The wall fixing of a bit unit can be made through:

- Fixing bracket R/FR code 9200701 (A)
- Wall fixing plates code 9170301 (B)

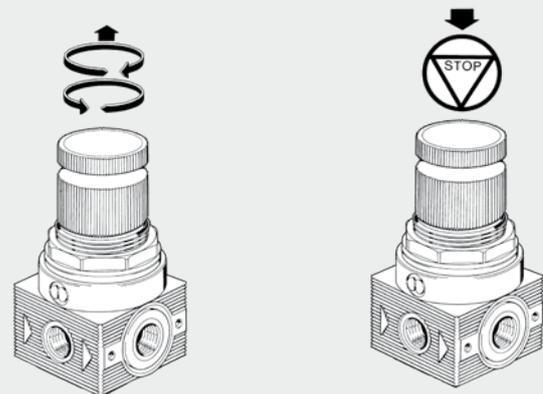


GENERAL RULES - USE AND MAINTENANCE



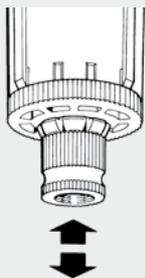
MOUNTING THE GAUGE

The gauge must be mounted by hand without using a spanner. Use fluid sealants to provide a good seal. N.B. Do not use Teflon.

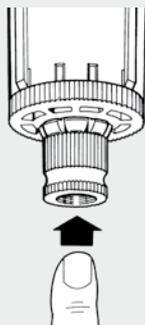


SETTING THE PRESSURE

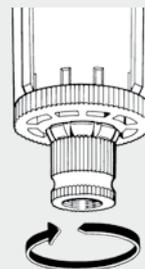
The air pressure must always be set upwards. The knob can be locked so that the set pressure cannot be altered.



With the knob in the centre position, the drain is semi-automatic. The drain operates when the bowl is not pressurized and closes when it is.



Press the button to drain condensate when the bowl is pressurized.



Turn the knob anticlockwise to close the valve with bowl pressurized or not pressurized.



To clean or replace the filter element unscrew the screen of the centrifuge assembly. Use a no. 3 compass spanner to unscrew the bowl.