

Pneumatic controller

for dust filter valves

for controlling up to 20 filter pulse valves

with ATEX approval

Internal thread P = G 1/8 Z = G 1/4

Operating pressure 2 to 8 bar

82870

Description (standard model)

The device controls a maximum of 20 filter pulse valves and replaces the solenoid control unit. The pulse valves are connected to the pressure chamber of the controller by small bore airlines. The wiper arm assembly of the controller is operated by a pneumatic ratchet drive. It pauses between valve connections for a preset time which is adjustable by the user. The switching time is also user adjustable by means of a throttle valve accessed after removal of the bottom casing. During the switching time the wiper arm passes beneath a valve connection port and vents the pilot line to that particular valve. The valve opens and remains open until the wiper arm moves on to the next position. The pilot air is vented through the port marked „R“ underneath the manual override knob, which is marked to show the exact position of the wiper arm. The control section consists of a pneumatic timer for adjusting the interval, throttle valve for adjusting the switching time and pneumatic ratchet drive for the wiper arm assembly. The operating section consists of pressure chamber, control ports and wiper arm.

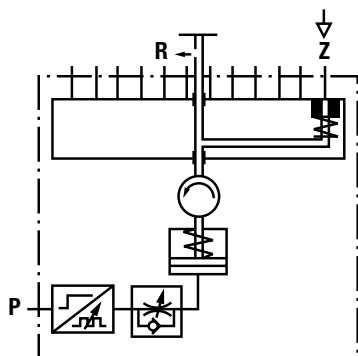


Fluid (control section):	filtered air – compressed air supply via conditioning unit with a 5 to 10 µm filter, without oiler (for unpurified compressed air we recommend an additional 50 to 75 µm primary filter).
Temperature range:	0 °C to + 70 °C, –25 °C to 70 °C for dry air
Interval:	adjustable 2 to 200 s, set on about 10 s in factory
Reproducibility:	± 5 %
Mounting position:	optional
Material body:	grey cast iron

Features

- Compact design
- Switching time and interval adjustable
- Fully pneumatic controller, suitable for robust operation
- Ideal for use in hazardous zones Kompakte Bauweise

Symbol



Characteristic data

Standard models: Wiper arm (valve venting) operated by spring return in the cylinder

Part Number	Number of control ports *	Control section Pressure port P	Operating pressure		Operating section Control port Z	Operating pressure		Weight (kg)
			min. (bar)	max. (bar)		min. (bar)	max. (bar)	
8287054.0000	10	G 1/8	2	8	G 1/4	0,5	8	7,8
8287154.0000	12	G 1/8	2	8	G 1/4	0,5	8	7,8
8287254.0000	14	G 1/8	2	8	G 1/4	0,5	8	7,8
8287354.0000	16	G 1/8	2	8	G 1/4	0,5	8	10,9
8287554.0000	20	G 1/8	2	8	G 1/4	0,5	8	10,9

* Control ports not required have to be sealed with a plug

Further Options (Valves)

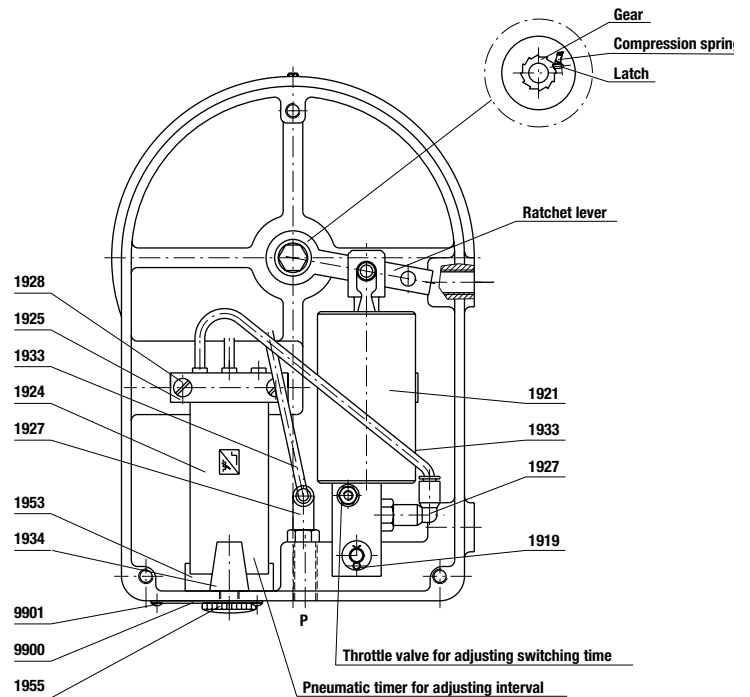
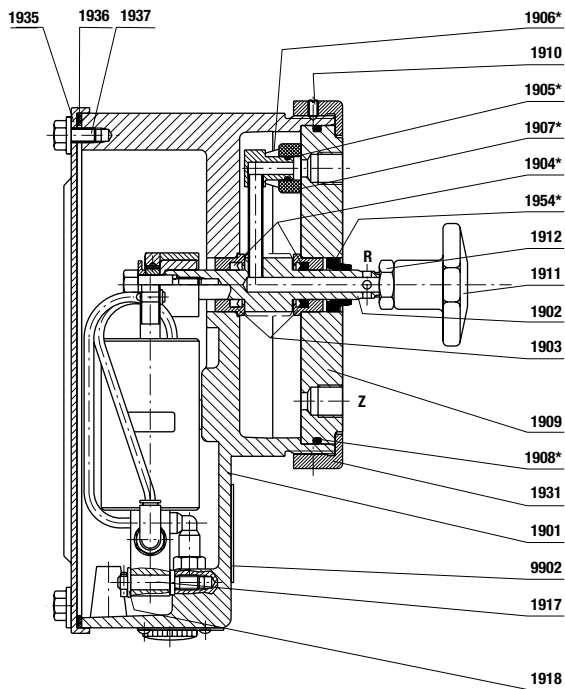
XXXXX55.XXXX with positive control signal;
for pneumatically actuated valves.
Control pressure port "R" (G 1/4)
operation as model XXXXX54.0000

Auf Anfrage Units with 18 control ports available

ATEX approval

⊕ II 2 GD c II B T 85 °C
⊕ I M2 c T_{max.} = 55 °C

Section View

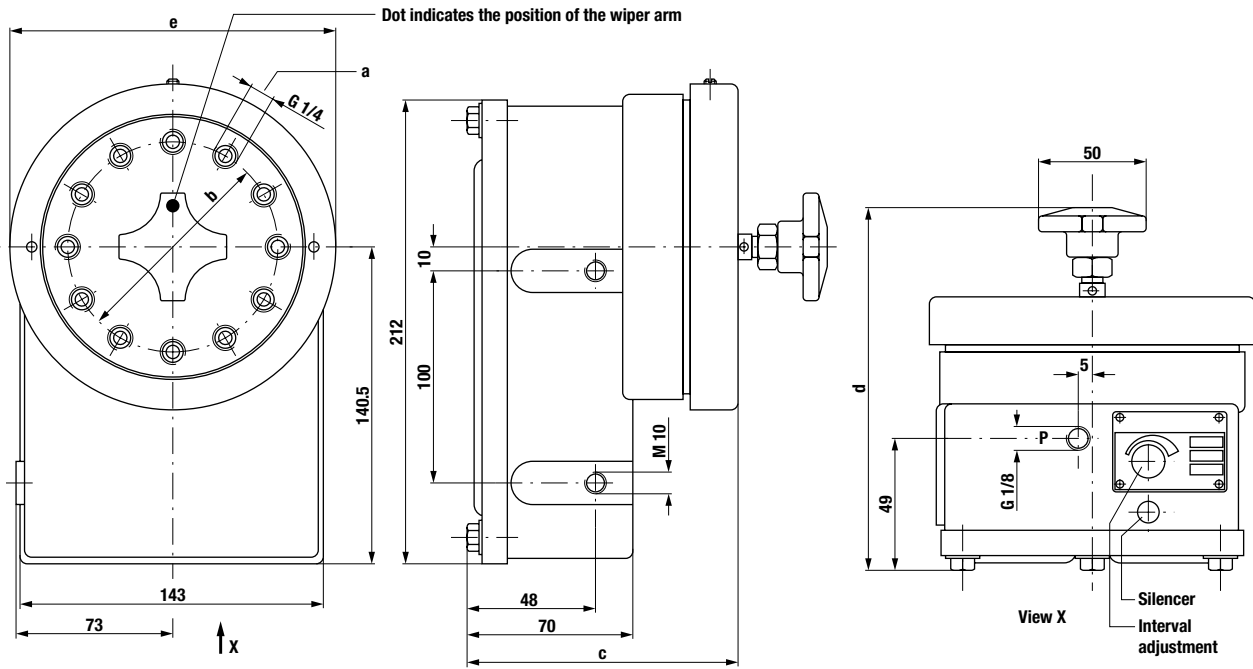


- 1901 Body
- 1902 Ratchet drive complete with wiper arm, gear, latch and compression spring
- 1903 Shouldered bush
- *1904 Grooved ring
- *1905 O-ring
- *1906 Compression spring
- *1907 Sealing bush
- *1908 O-ring
- 1909 Round plate
- 1910 Grub screw
- 1911 Star knob
- 1912 Hexagon nut
- 1917 Spindle
- 1918 Washer
- 1919 Split pin

- 1921 Pneumatic cylinder complete with yoke
- 1924 Pneumatic timer
- 1925 Base plate 1927 Quick-action threaded union
- 1928 Cheese-head screw
- 1931 Screw fitting
- 1933 Rilsan tube
- 1934 Silencer
- 1935 Body cover
- 1936 Gasket
- 1937 Locking bolt
- 1953 Gasket
- *1954 Wiperring
- 1955 Plug
- 9900 Rating plate
- 9901 Half-round slotted pin
- 9902 Label

* These individual parts form a complete wearing unit.
When ordering spare parts please state Cat No. and Series No.

General Dimensions



Part No.	Number of control ports	B (mm)	C (mm)	D (mm)	E (mm)
8287054.0000	10	215	118	170	150
8287154.0000	12	215	118	170	150
8287254.0000	14	215	118	170	150
8287354.0000	16	215	128	180	190
8287554.0000	20	215	128	180	190

Note to Pressure Equipment Directive (PED):
 The valves of this series are according to Art. 3 § 3 of the Pressure Equipment Directive (PED) 97/23/EG.

This means interpretation and production are in accordance to engineers practice wellknown in the member countries.
 A certificate of conformity ist not designated.