Pressure monitor module

Description

The pressure monitor module is a constituent part of pressurised controls. Various variants are available for applications in Zone 1, 2 and 22.

Function

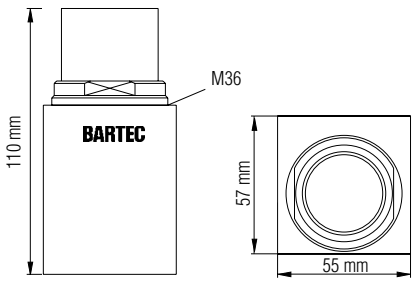
Pressure monitor module for Zone 1

- pressure monitor module
- pickup points for measuring the flow rate

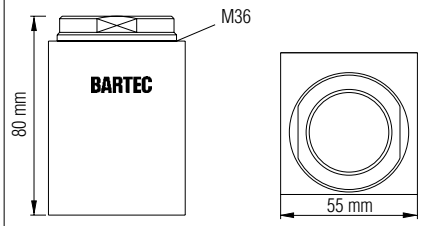
Pressure monitor module for Zone 2 and 22

- pressure monitor module
- through-flow valve

Dimensions Variant for Zone 1



Dimensions Variant for Zone 2



Pressure monitor module Zone 1

Technical data

Temperature range
-20 °C to +80 °C

Installation
in the Ex px operating equipment

Assembly borehole
∅ 37 mm

Connection
Quick plug-in connector for hose

Flying spark barrier
3-fold

Mounting position
- any position
- plastic body inside Ex p operating equipment

Opening pressure
3 mbar

Orifice plate

17-51P3-1403	12 mm
17-51P3-1503	15 mm
17-51P3-1603	18 mm

Protection class
IP 65

Pressure monitor module Zone 2 and 22

Technical data

Temperature range
-20 °C to +80 °C

Installation
in the Ex pz/pD operating equipment

Assembly borehole
∅ 37 mm

Flying spark barrier
2-fold (1x for each input and output)

Mounting position
- any position
- plastic body inside Ex pz/pD operating equipment

Opening pressure
3 mbar

Protection class
IP 54

Order no.

Module Zone 1
Orifice plate

12 mm	**17-51P3-1403**
15 mm	**17-51P3-1503**
18 mm	**17-51P3-1603**

Module Zone 2 or 22
17-51P3-1604

Pressure reducer

Description

This upstream connecting pressure reducer is a diaphragm pressure regulator with secondary venting for lowering the pressure of externally supplied compressed air.

The settings are made by means of a handwheel. The set reduced pressure can be read on a pressure gauge.

Ambient conditions	
Ambient temperature	-10 °C bis +60 °C
Medium temperature	-10 °C to +40 °C
for Ex p operating equipment	Zone 1 and 2

Pressure reducer 1/4" with pressure gauge

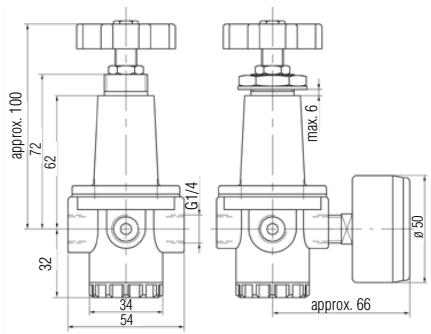
Technical data

Operating elements
Handwheel for setting the air pressure;
Handwheel held in place by means of a locknut

Installation
Mounting position is optional, observe the flow direction marking on the enclosure;
Mounting in control cabinet borehole: ø 17.5 mm

Max. input pressure (p_1)	16 bar
Pressure regulation range (p_2)	0.5 to 6 bar, infinitely variably
Connections	Air connection G 1/4" Pressure gauge connection G 1/4" Nominal diameter DN 6
Nominal flow rate (QN)	1000 l/min
Weight	with pressure gauge approx. 0.55 kg
Material	Enclosure: zinc die casting Diaphragm, seals: NBR Compression spring: steel, galvanised Counterpressure spring: stainless steel
Scope of supply	Pressure reducer, 2 x gaskets, Bulkhead nipples G1 / 4"i / G3 / 8"a Double nipples detachable G1 / 4" / G1 / 4"

Dimensions in mm, Pressure reducer 1/4"



Order no. Pressure reducer 1/4" **05-0056-0007**

Pressure reducer 1/2" with pressure gauge

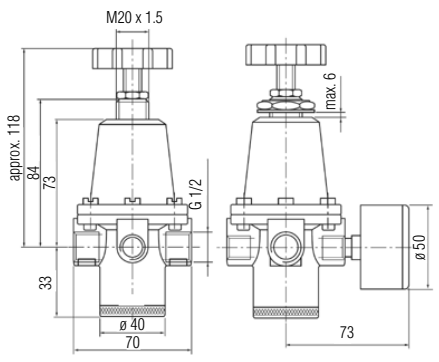
Technical data

Operating elements
Handwheel for setting the air pressure;
Handwheel held in place by means of a locknut

Installation
Mounting position is optional, observe the flow direction marking on the enclosure;
Mounting in control cabinet borehole: ø 21 mm

Max. input pressure (p_1)	25 bar
Pressure regulation range (p_2)	0.5 to 6 bar, infinitely variably
Connections	Air connection G 1/2" Pressure gauge connection G 1/4" Nominal diameter DN 15
Nominal flow rate (QN)	2.200 l/min
Weight	with pressure gauge approx. 1.2 kg
Material	Enclosure: zinc die casting Diaphragm, seals: NBR Compression spring: steel, galvanised Counterpressure spring: stainless steel
Scope of supply	Pressure reducer, 2 x gaskets, Bulkhead nipples G1 / 4"i / G3 / 8"a Double nipples detachable G1 / 4" / G1 / 4"

Dimensions in mm, Pressure reducer 1/2"



Order no. Pressure reducer 1/2" **05-0056-0041**