

CURRENT TO PRESSURE (I/P) ELECTRONIC CONVERTER

422 Fail Freeze 1/4 NPT

- Fail freeze operation
- Minimum vibration effects
- IP 65 environmental protection in normal position

Technical Data

Medium:
Oil free, dry air, filtered to 5 µm

Supply pressure:
at least 0,7 bar above maximum required output pressure maximum 3 bar gauge

Flow capacity:
Up to 300NL/min

Response time:
< 8 sec (typically < 3 sec) from 10% ... 90% of output pressure into a 0,5 litre volume
< 8 sec (typically < 3 sec) from 90% ... 10% of output pressure into a 0,5 litre volume

Temperature sensitivity:
Typically < 0,034% span/°C between -10°C ... +60°C

Supply sensitivity:
< 0,1% of span for full supply pressure range

Ambient temperature:
-20°C ... +70°C
Air supply must be dry enough to avoid ice formation at temperatures below +2°C

Linearity:
≤ 0,5% of span

Hysteresis:
≤ 0,5% of span

Materials

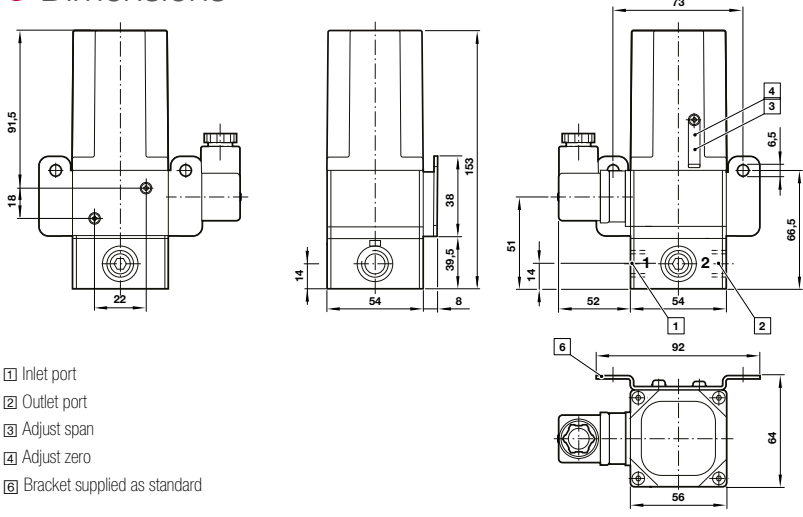
Body:
Zinc diecasting passivated and epoxy painted

Cover:
Glass reinforced PA

Diaphragms:
NBR



Dimensions



Models

Model	Port	Output pressure
AC2100	1/4 NPT	0,2-1 bar
AC0100	1/4 NPT	3-15 psi
AC0138X	1/4 NPT	0,2 - 1,0 Kg/cm ²

For other port sizes or options please contact your sales representative.

Electrical parameters

Input Signal	4-20 mA (two wire). Terminal voltage typically 7,5 V at 20 mA
Failure Mode	Output pressure held at previous value when input signal fails; drift rate 0,02% in 30 seconds
Overload Protection	100 mA max. overload current. Unit unaffected by short duration reverse current
Connections	30 mm square connector provided (DIN 43650, form A) mountable in 4 directions
Span/Zero	Independently adjustable up to 20% output range