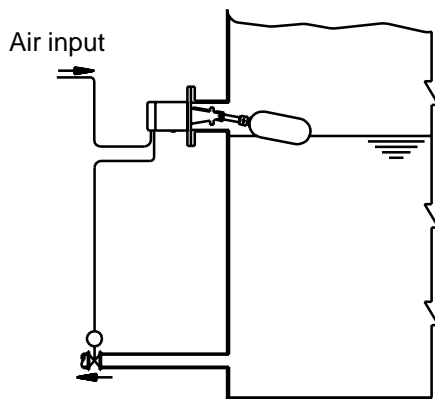




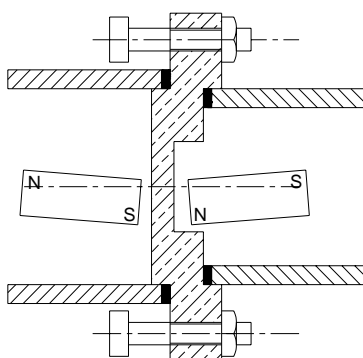
LEVEL MEASUREMENT & CONTROL SOLUTIONS

MAGNETIC FLOAT TYPE PNEUMATIC CONTROLLER , SERIES 137 PNP

The magnetic float type pneumatic controller, Series 137PNP, is specifically designed for providing pneumatic pressure output proportional to level (directly / inversely depending on desired control action). Its major applications are for control of pneumatic valves, dampers and actuators in process control.



OPERATION



The float position tracks the liquid level and transmits it to the switching unit through attraction type magnetic coupling. This in turn adjusts the position of precisely ground needle in the nozzle, thus controlling the amount of exhaust. The controlled output port delivers air at a pressure proportional to level. The pressure at the controlled output port varies with changing pressure at the supply port. It is therefore important that steady input pressure be maintained.

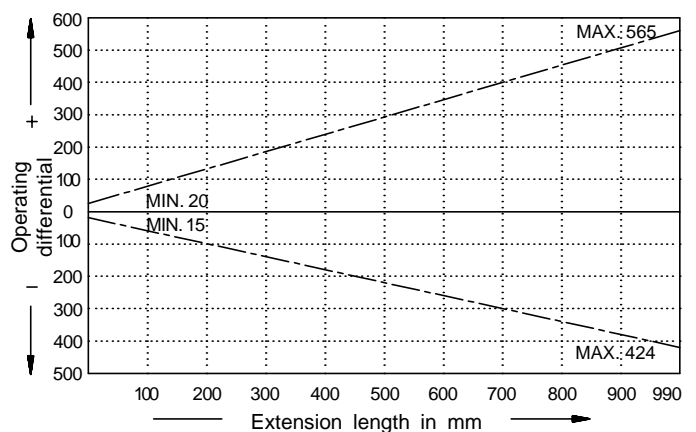
SPECIFICATIONS

- Working pressure : 40 Kg/cm² (Max.)
- Operating temperature : 0 ° C - 300 ° C
- Ambient temperature : 0 ° C - 70 ° C
- Liquid density : 0.8 - 1.2 Kg/dm³
- Wet side parts : SS316

- Input air pressure : 1.5 Kg/cm² (Min.)
2.0 Kg/cm² (Max.)
- Output air pressure : 0.2 - 1.0 Kg/cm²
OR 3 - 15 PSI
- Supply connection : 1/8" NPT (F)
OR 1/4" NPT (F)
OR 1/4" BSP (F)
- Weight (Without flange) : 1.5 Kg approximately.
- Operating differential : For specific gravity =1
Without extension - From + 20 to - 15 mm
With extension - From + (0.57 x L) to - (0.43 x L)
{ Horizontal extension of length 'L'. }

- Switch enclosure : Aluminium alloy
- Flange type :
Standard square in SS316
Slip on flange ANSI # 150 in CS / SS304 / SS316
/ ASTM A105 with sealing flange in SS316
- Float module : SS316

OPERATING DIFFERENTIAL



ORDERING CODE

1	3	7	P	N	P
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CONTR-OLLER

FLANGE

FLOAT

CALIBRATED OUTPUT

0.2 - 1.0 Kg/cm ²	1
3 - 15 PSI	2

IN-LINE AIR FILTER (25 m)

NOT REQUIRED	0
REQUIRED {SUPPLY PORT 1/4" NPT (F)}	1
REQUIRED {SUPPLY PORT 1/4" BSP (F)}	2

(REFER NOTES 1 AND 2.)

FLANGE

STANDARD (SQUARE) IN SS316	F
ANSI 150 # (SLIP ON) IN CS	2
ANSI 150 # (SLIP ON) IN ASTM A105	3
ANSI 150 # (SLIP ON) IN SS304	4
ANSI 150 # (SLIP ON) IN SS316	6
OTHERS (PLEASE SPECIFY)	9

EXTENSION LENGTH IN mm

000	STANDARD FLOAT ASSEMBLY
xxx	SPECIFY L = xxx (MAX. 990).

FLOAT ASSEMBLY

S	STANDARD FLOAT ASSEMBLY
H	STANDARD FLOAT ASSEMBLY WITH HORIZONTAL EXTENSION

FLANGE SIZE

0	STANDARD (SQUARE)
2	65 NB (2 1/2 ") (SLIP ON)
3	80 NB (3 ") (SLIP ON)
4	100 NB (4 ") (SLIP ON)

NOTES :

- 1 Use of air filter on supply line and instrument grade air supply is always recommended.
- 2 When air filter is not ordered (code 0) the supply port connection is 1/6" NPT (F), same as for controlled output & exhaust port.
- 3 In direct control action, as liquid level rises , output pressure decreases proportionately. In reverse control action, as liquid level rises , output pressure increases proportionately. For direct control action, arrow at the switch end must be pointing upwards whereas for reverse control action, arrow at the switch end must be pointing downwards.

DIMENSIONS

151

- MAX. 70 (137PNP xxxx Sxx S000)
MAX. 162 (137PNP xxxx Sxx Hxxx)

E EXHAUST PORT
S SUPPLY PORT
C CONTROLLED OUTPUT PORT

REVERSE CONTROL ACTION

MOUNTING

Square flange mounting

Slip on flange mounting

*** Continuous developments may necessitate changes without notice.

LF-137-0808 R01 03/99

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