MAGNETIC FLOAT LEVEL TRANSMITTER
LT SERIES

The vertical float level transmitter consist of a float with a built in permanent magnet, and guide tube built in many reed switch and resistances becoming a measuring sensor. The float rise up or fall down in liquid inducting measuring sensor to make portional voltage which combine a V/I converter turn to a 4~20mA DC output signal. To provide a liquid level control function.

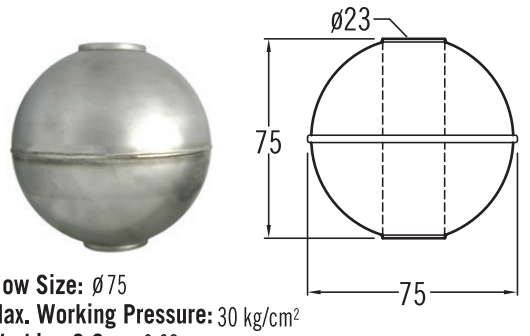


Technical Data

Resolution accuracy: ±12mm standard; ±6mm on request
Material: Wetted parts are available for SS304, SS316, PVC, PP, PVDF Others on request.
Output single: 4~20mA DC (500~20 kΩ) 2-wire
Power supply: 11V~30V DC
Enclosure housing: IP65, Explosion proof available
Max. range: 6000mm (SS316,SS304,PVC,PP,PVDF)
Limit operating temperature: -20°C~+100°C
Limit operating pressure: 3~30 kg/cm² (please refer to the *Float Specification*)

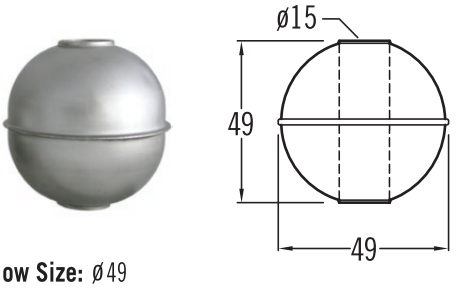
Float Specification

ø75x75mm(SUS316)



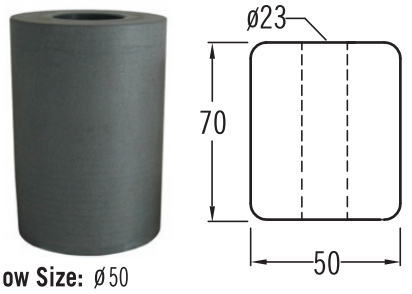
Flow Size: ø75
Max. Working Pressure: 30 kg/cm²
Working S.G.: ≥0.68
The Guide Tube Size: ø20
Material: SUS316
Limited Operating Temperature: -20 ~ 140°C

ø49x49mm(SUS316)



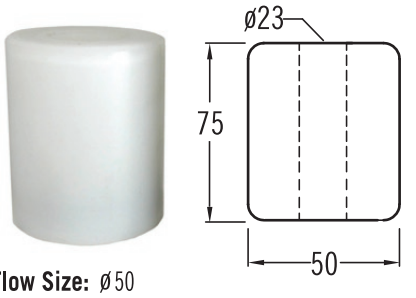
Flow Size: ø49
Max. Working Pressure: 30 kg/cm²
Working S.G.: ≥0.68
The Guide Tube Size: ø12
Material: SUS316
Limited Operating Temperature: -20 ~ 140°C

ø50x70mm(P.V.C)



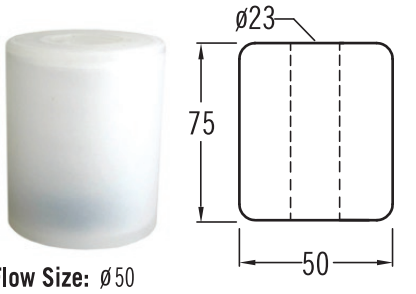
Flow Size: ø50
Max. Working Pressure: 3 kg/cm²
Working S.G.: ≥0.7
The Guide Tube Size: ø18
Material: P.V.C
Limited Operating Temperature: 0~70°C

ø50x75mm(PVDF)



Flow Size: ø50
Max. Working Pressure: 5 kg/cm²
Working S.G.: ≥0.8
The Guide Tube Size: ø20
Material: PVDF
Limited Operating Temperature: 0~120°C

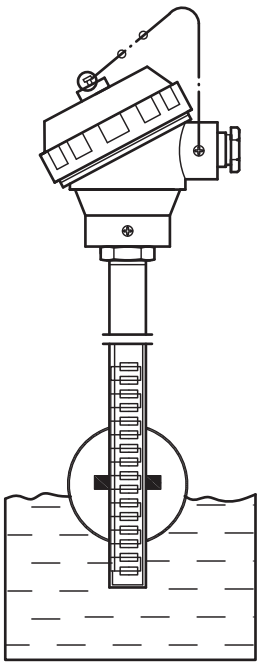
ø50x75mm(P.P)

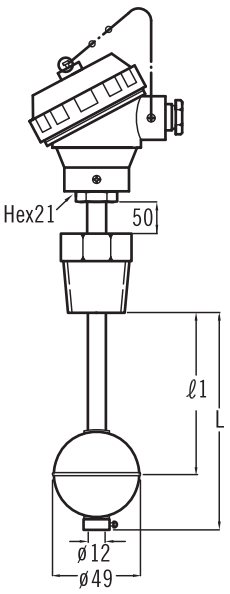
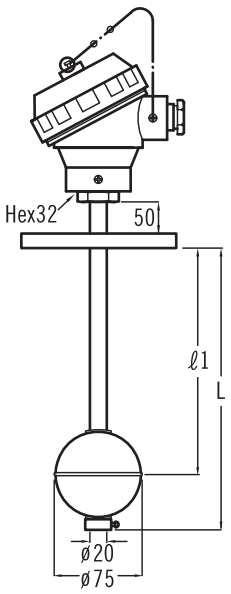


Flow Size: ø50
Max. Working Pressure: 3 kg/cm²
Working S.G.: ≥0.7
The Guide Tube Size: ø21
Material: P.P
Limited Operating Temperature: 0~60°C

WWW.NEW-FLOW.CO WWW.NEW-FLOW.DE | Tel: +49 3682 49099 | Fax: +49 3682 49093 | E-Mail: info@mess-regel.de

Dimension



THREAD	FLANGE
LTH Series	LTF Series
	

NOTE.
Head Type and Float Size, please refer to the head type and float size table.

Head Type Technical Data



HN TYPE



HP TYPE



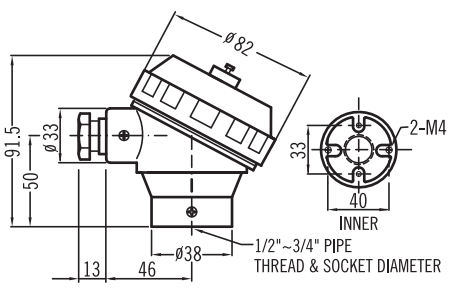
XDS TYPE



XDA TYPE

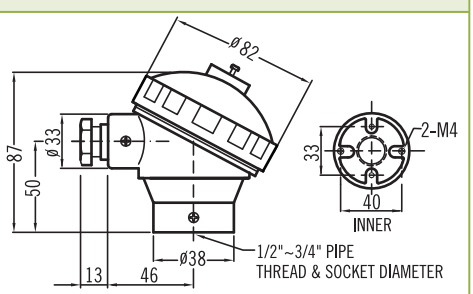
HN Type

Protection: IP67
Material: Aluminum Alloy
Weight: 264g
Protection tube connection:
½",¾"(PF,NPT,BSP),M20X1.5
Extension wire connection:
½",¾"(PF,NPT,BSP),M20X1.5
Other specifications are available on request.



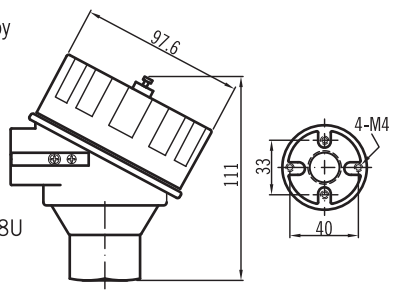
HP Type

Protection: IP65
Material: Polypropylene
Weight: 112g
Protection tube connection:
½"NPT,½"BSP
Extension wire connection:
¾"NPT, M20X1.5
Other specifications are available on request.



XDS / XDA Type

Material: XDS-SS316; XDA-Aluminum alloy
Weight: XDS-1278 g; XDA-460 g
Protection tube connection:
½"PF, ¾"PF, ½"NPT, ¾"NPT
½"BSP, ¾"BSP, G½", G¾"
M20x1.5, M24x1.5, M25x1.5
Extension wire connection:
M20x1.5, M25x1.5, ½"NPT, ¾"NPT
EC certificate no.: BSI 07 ATEX 1532458U
ATEX directive code: II 2 G D
Standard code: Ex d IIC T6, Ex tD A21 T100°C IP6x Ta= –20°C to +40°C
FM Approvals: XP/I/1/ABCD/T6; DIP/II,III/1/EFG/T6; Type 4X
Explosionproof for Class I, Division 1, Groups A,B,C and D; and dust-ignitionproof for Class II, III Division 1, Groups E,F and G, hazardous (classified) locations; indoor / outdoor (NEMA Type 4X).



WWW.NEW-FLOW.DE | Tel: +49 3682 49099 | Fax: +49 3682 49093 | E-Mail: info@mess-regel.de

Ordering Information

LT	Code	Model
		LTH Series (Thread connection)
		LTF Series (Flange connection)

Code	Enclosure Protection
W	IP65 or IP67
X	Explosion Proof

Code	Process Connection Size
	(A) 2" (B) 3" (O) option

Code	Process Connection Rating
T	Thread: (A) PT (B) NPT (C) PF(BSP) (O) option
F	Flange: (A) JIS 5K (B) JIS 10K (C) ANSI 150# (D) PN16 (O) option

Code	Material of Wetted Parts
	(1) SS304 (2) SS316 (3) P.V.C (4) P.P (5) PVDF (6) option

Code	Head Type
	(1) HN type (2) HP type (3) XDS type (4) XDA type (5) Option

Code	Float Size
	(A) Ø75(SS316) (B) Ø49(SS316) (C) Ø50x70(P.V.C) (D) Ø50x75(PVDF) (E) Ø50x75(P.P)

Code	Conduit Connection
	(A) ½"PF (B) ½"NPT (C) ¾"PF (D) ¾"NPT

Code	Total Inserting Length
	L= _____ mm

Code	Measuring Length
	Please fill in the requested length. ℓ1=_____mm

											Complete Ordering Code

WWW.NEW-FLOW.DE | Tel: +49 3682 49099 | Fax: +49 3682 49093 | E-Mail: info@mess-regel.de