MAGNETIC FLOAT LEVEL SWITCH
LS SERIES

The vertical float level switch consist of a float with a built in permanent magnet, and guide tube built in reed switch (one or more), when the float rise up or fall down in liquid that induct the reed switch to become ON or OFF contact function. The ON-OFF contact provdie a liquid level control for application by request.





Technical Data

Material: Wetted parts are available for SS304, SS316, PVC, PP, PVDF by requested. Multiple level point are available by requested for customer.
Enclosure Housing: Weather proof IP65 and IP67; Explosion proof available
Straight Style LS Series: LS-simple type; WLS-IP65 & weather proof type; ELS-explosion proof type
Angle Style Series: LA-simple type; WLA-IP65 & weather proof type; ELA-explosion proof type
Connection Size: Thread type- 1½" to 3"; Flange type- 1½" to 4"





Switch Table

Contact Form	A (SPST)	C (SPDT)
Switching Capacity Max.	40 W/VA	60 W/VA
Switching Voltage Max.	230V AC/DC	230V AC/DC
Switching Current Max.	2A	1A
Carrying Current Max.	3A	2A
Working Temperature	-20°C~+130°C	-20°C~+130°C

*Special rate available on request.

Wiring Code Numbers

One Float		Two Float			Three Float		Four Float			
1	2	3	4	5	6	7	8	9	10	11
Suitable Float Size: ø28, ø40, ø49, ø75							ø40 ø49 ø75	ø40 ø49 ø75	ø28 ø40 ø49 ø75	ø49 ø75
1xSPST	1xSPDT	2xSPST	SPST (Common Wire Style)	2xSPDT	3xSPST	SPST (Common Wire Style)	3xSPDT	4xSPST	SPST (Common Wire Style)	4xSPDT

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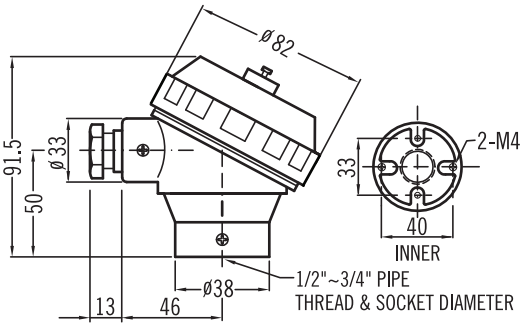
Head Type Technical Data



HN 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.

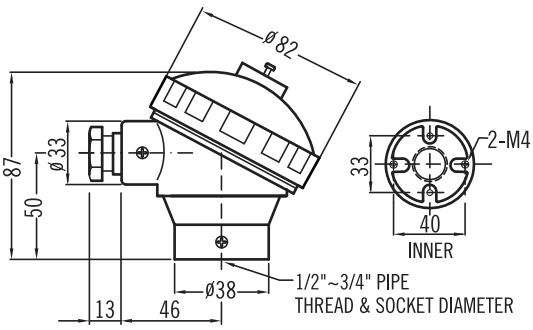




HP TYPE

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.

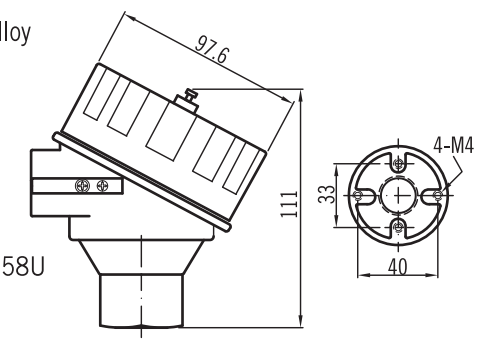




XDS TYPE

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).

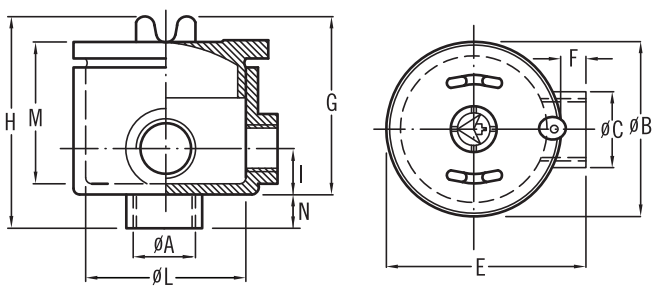




XDA TYPE

S2 Type

Protection: Explosion proof. EExdIICT6 IP65
Material: Aluminum Alloy



Type	Dimensions unitmm											Terminal Block (on request)	Weight Gr.
	ØA	ØB	ØC	E	F	G	H	I	ØL	M	N		
S2	¾"	90	38	100	10	78	92	24	76	69	14	4x4 mm²	510

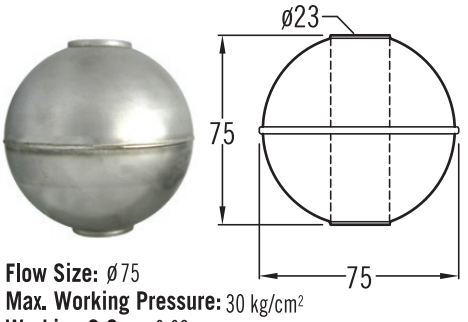


S2 TYPE

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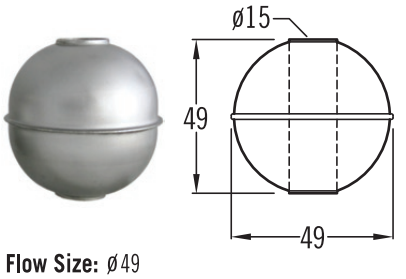
Float Specification

ø75x75mm(SUS316)



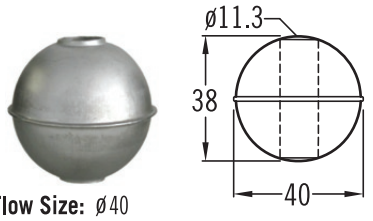
Flow Size: ø75
Max. Working Pressure: 30 kg/cm²
Working S.G.: ≥0.68
The Guide Tube Size: ø20
Material: SUS316
Limited Operating Temperature: -20 ~ 140°C

ø49x49mm(SUS316)



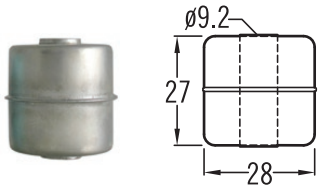
Flow Size: ø49
Max. Working Pressure: 30 kg/cm²
Working S.G.: ≥0.68
The Guide Tube Size: ø12
Material: SUS316
Limited Operating Temperature: -20 ~ 140°C

ø40x38mm(SUS316)



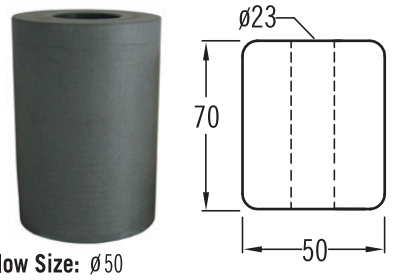
Flow Size: ø40
Max. Working Pressure: 30 kg/cm²
Working S.G.: ≥0.8
The Guide Tube Size: ø9.5
Material: SUS316
Limited Operating Temperature: -20 ~ 140°C

ø28x27mm(SUS316)



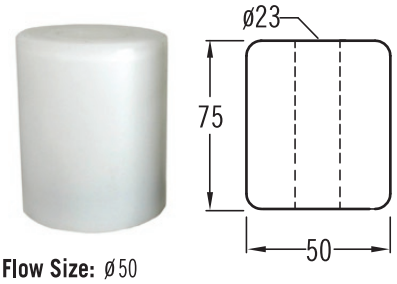
Flow Size: ø28
Max. Working Pressure: 15 kg/cm²
Working S.G.: ≥0.8
The Guide Tube Size: ø8
Material: SUS316
Limited Operating Temperature: -20 ~ 140°C

ø50x70mm(P.V.C)



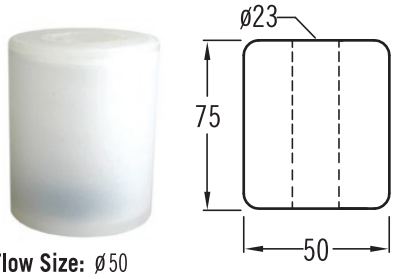
Flow Size: ø50
Max. Working Pressure: 3 kg/cm²
Working S.G.: ≥0.7
The Guide Tube Size: ø18
Material: P.V.C
Limited Operating Temperature: 0~70°C

ø50x75mm(PVDF)



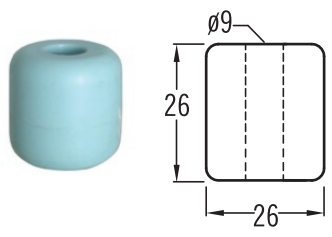
Flow Size: ø50
Max. Working Pressure: 5 kg/cm²
Working S.G.: ≥0.8
The Guide Tube Size: ø20
Material: PVDF
Limited Operating Temperature: 0~120°C

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

ø26x26mm(P.P)

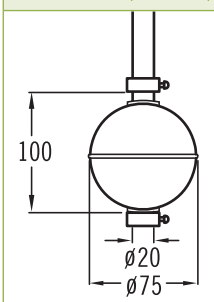


Flow Size: ø26
Max. Working Pressure: 3 kg/cm²
Working S.G.: ≥0.7
The Guide Tube Size: ø8
Material: P.P
Limited Operating Temperature: 0~60°C

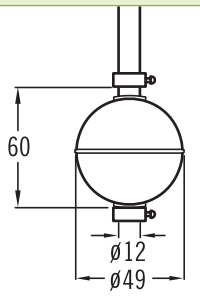
ON-OFF Gap

A. Metal

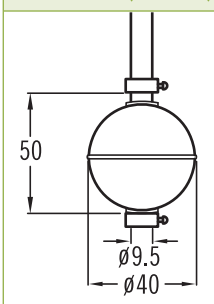
ø75x75mm(SUS316)



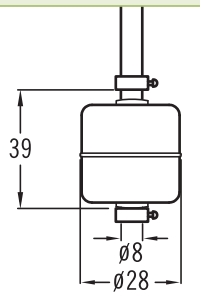
ø49x49mm(SUS316)



ø40x38mm(SUS316)

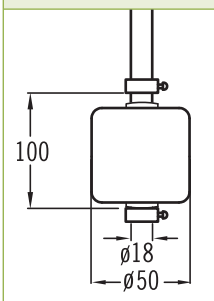


ø28x27mm(SUS316)

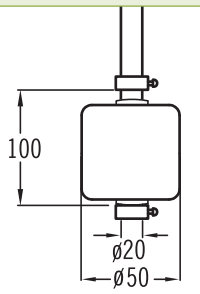


B. Non-Metal

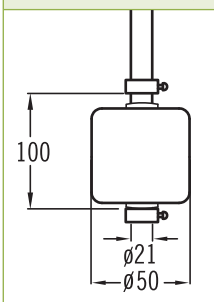
ø50x70mm(P.V.C)



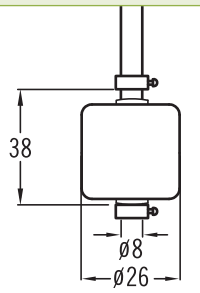
ø50x75mm(PVDF)



ø50x75mm(P.P)



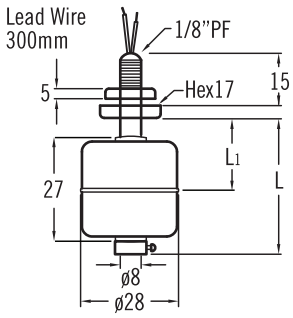
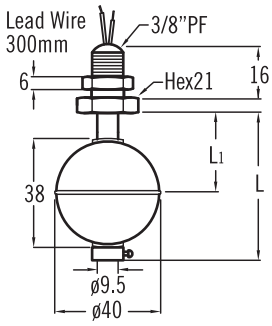
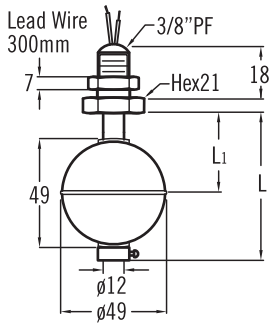
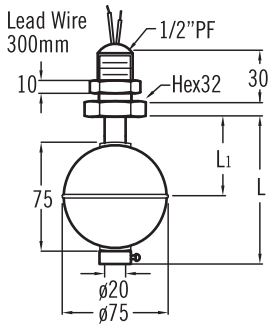
ø26x26mm(P.P)



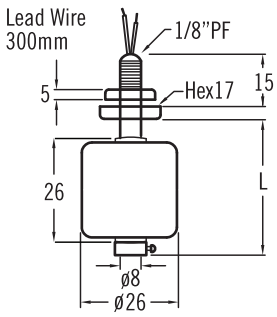
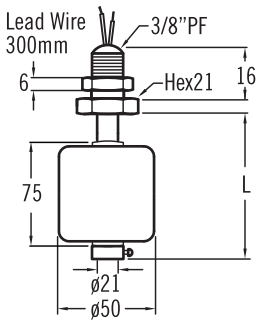
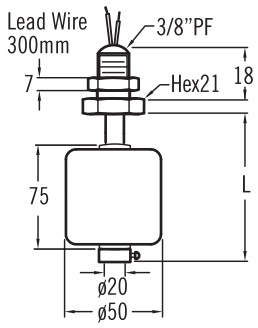
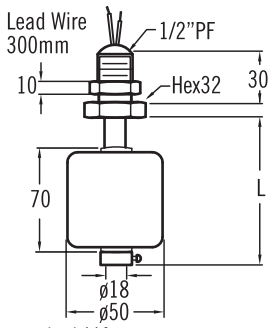
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LS-100 Series One Float Type

Metal Float

LS-101	LS-102	LS-103	LS-104
			
L=standard 48 mm **L1**= standard 21 mm upon available on request	**L**=standard 68 mm **L1**= standard 27 mm upon available on request	**L**=standard 80 mm **L1**= standard 32 mm upon available on request	**L**=standard 110 mm **L1**= standard 49 mm upon available on request

Non-Metal Float

LS-101P (P.P)	LS-102P (P.P)	LS-103P (PVDF)	LS-104P (P.V.C)
			
L=standard 48 mm upon available on request	**L**=standard 110 mm upon available on request	**L**=standard 110 mm upon available on request	**L**=standard 110 mm upon available on request

Ordering Information

LS	Code	Model			
		– Metal Float			
		101	102	103	104
		– Non-Metal Float			
		101P	102P	103P	104P

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

Code	Contact Form
	(A) A type **(C)** C type **(O)** option

Code	Wiring Code Numbers
	Please refer to *Wiring Code Numbers* table.

Code	Float Size
	(A) ø28 x 27 (SS316) **(B)** ø40 x 38 (SS316) **(C)** ø49 x 49 (SS316) **(D)** ø75 x 75 (SS316) **(E)** ø26 x 26 (P.P) **(F)** ø50 x 75 (P.P) **(G)** ø50 x 75 (PVDF) **(H)** ø50 x 70 (P.V.C)

Code	Total Insertion Length
	L=_____mm

Code	Setting Point & Switch Acting Functions
	Please fill in the requested length and float Rised ↑ON or Fall down ↓ON ℓ1=_____mm ☐ ON

LS								Complete Ordering Code

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