

# 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 provide 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 ; Explosion proof available  
**Straight Style LS Series:** LS-simple type; WLS-weather proof type; ELS-explosion proof type

**Angle Style Series:** LA-simple type; WLA-weather proof type; ELA-explosion proof type

**Connection Size:** Thread type- 1½" to 3"; Flange type- 1½" to 4"

### Switch Table

Item Code	23	15	36
Contact Form	A (SPST)	C (SPDT)	C (SPDT)
Switching Capacity Max.	40 W/VA	60 W/VA	20 W/VA
Switching Voltage Max.	230V AC/DC	250V AC/DC	150V AC/DC
Switching Current Max.	2A	1A	1A
Carrying Current Max.	3A	2A	2A
Working Temperature	-20°C~+130°C	-20°C~+130°C	-20°C~+130°C
Suitable Float Size	all float size available Except ø28: 3 setting points only	float size > ø49 available Except ø49: 1 setting point only	all float size available

\*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, ø50, ø75							ø40 ø49 ø50 ø75	ø40 ø49 ø50 ø75	ø40 ø50 ø49 ø75	ø49 ø50 ø75
1xSPST	1xSPDT	2xSPST	SPST (Common Wire Style)	2xSPDT	3xSPST	SPST (Common Wire Style)	3xSPDT	SPST (Common Wire Style)	SPST (Common Wire Style)	SPST (Common Wire Style)



### Approvals:



TD0400TJ  
 工電(2016)第00225號  
 工電(2016)第00226號



Switches with Intertek Test Report, refer to UL508 Standard.



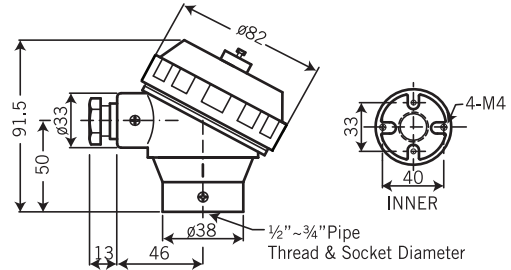
## Head Type Technical Data



**HN TYPE**

### HN Type

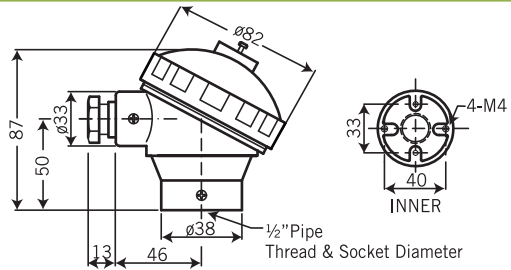
**Protection:** IP68  
**Material:** Aluminum Alloy  
**Weight:** 264g  
**Protection tube connection:** 1/2", 3/4" (PF, NPT, BSP); M20 x 1.5  
**Extension wire connection:** 1/2", 3/4" (PF, NPT, BSP); M20 x 1.5  
 Other specifications are available on request.



**HP TYPE**

### HP Type

**Protection:** Weather Proof Type  
**Material:** Polypropylene  
**Weight:** 112g  
**Protection tube connection:** 1/2" NPT, 1/2" BSP  
**Extension wire connection:** 3/4" NPT, M20 x 1.5  
 Other specifications are available on request.

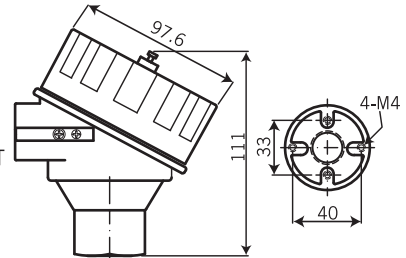


**XDS/XDA TYPE**

### XDS / XDA Type

**Material:** XDS-SS316; XDA-Aluminum alloy  
**Weight:** XDS-1278g; XDA-460g  
**Protection tube connection:** 1/2" PF, 3/4" PF, 1/2" NPT, 3/4" NPT, 1/2" BSP, 3/4" BSP, G 1/2", G 3/4", M20x1.5, M24x1.5, M25x1.5  
**Extension wire connection:** M20x1.5, M25x1.5, 1/2" NPT, 3/4" NPT  
**ATEX Approvals:** II 2G D  
 Ex db IIC T6 Gb  
 Ex tb IIIC T100°C Db

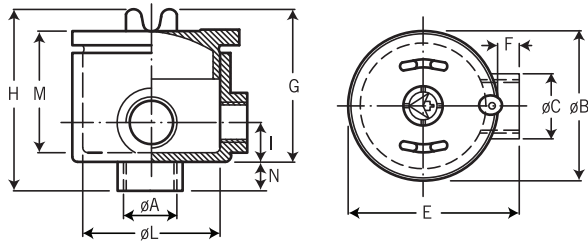
**FM Approvals:** XP/II/1/ABCD/T6; DIP/II, III/1/EFG/T6; Type 4X  
 Explosionproof for Class I, Division 1, Groups A,B,C and D; and dust-ignitionproof for Class II, III Division 1, Groups E,F and G, hazardous (classified) locations; indoor/ outdoor (NEMA Type 4X).



**S2 TYPE**

### S2 Type

**Protection:** Explosion Proof, EEx d IIC-T6, II 2 GD; IP66  
**Material:** Aluminum Alloy



Type	Dimensions										Terminal Block (on request)	Weight Gr.	
	øA	øB	øC	E	F	G	H	I	øL	M			N
S2	3/4"	90	38	100	10	78	92	24	76	69	14	4x4mm <sup>2</sup>	510

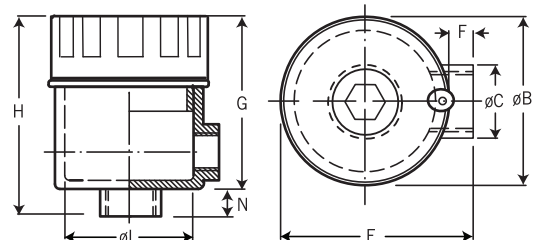


**ES/EA TYPE**

### ES / EA Type

**Protection:** Explosion Proof Type  
**Material:** ES: SS316 / EA: Aluminum Alloy  
**Extension wire connection:** 1/2", 3/4" (PF, NPT, BSP)  
**Weight:** 1054 g

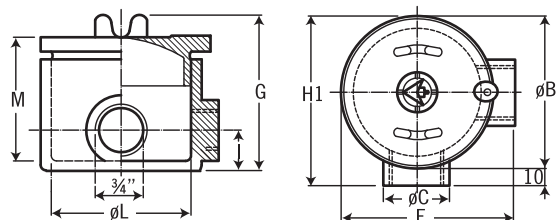
Type	Dimensions						
	G	H	øL	N	øB	øC	E
ES/EA	76	90	56.5	14	74	35.5	87



**MS-1**

### MS-1 Type

**Protection:** IP66  
**Material:** Aluminum Alloy



Type	Dimensions										Terminal Block (on request)
	øB	øC	E	G	H1	I	øL	M	N		
MS-1	100	38	110	80	100	24	88	68	10	4x4mm <sup>2</sup>	

## Float Specification

**φ75 x 75mm (SUS316)**

Float Size: φ75  
 Max. Working Pressure: 30 kg/cm<sup>2</sup>  
 Working S.G.: ≥0.68  
 The Guide Tube Size: φ20  
 Material: SUS316  
 Limited Operating Temperature: -20~140°C

**φ50 x 70mm (P.V.C)**

Float Size: φ50  
 Max. Working Pressure: 3 kg/cm<sup>2</sup>  
 Working S.G.: ≥0.7  
 The Guide Tube Size: φ18  
 Material: P.V.C  
 Limited Operating Temperature: 0~70°C

**φ49 x 49mm (SUS316)**

Float Size: φ49  
 Max. Working Pressure: 30 kg/cm<sup>2</sup>  
 Working S.G.: ≥0.68  
 The Guide Tube Size: φ12  
 Material: SUS316  
 Limited Operating Temperature: -20~140°C

**φ50 x 75mm (PVDF)**

Float Size: φ50  
 Max. Working Pressure: 5 kg/cm<sup>2</sup>  
 Working S.G.: ≥0.8  
 The Guide Tube Size: φ20  
 Material: PVDF  
 Limited Operating Temperature: 0~120°C

**φ40 x 38mm (SUS316)**

Float Size: φ40  
 Max. Working Pressure: 30 kg/cm<sup>2</sup>  
 Working S.G.: ≥0.8  
 The Guide Tube Size: φ9.5  
 Material: SUS316  
 Limited Operating Temperature: -20~140°C

**φ50 x 75mm (P.P)**

Float Size: φ50  
 Max. Working Pressure: 3 kg/cm<sup>2</sup>  
 Working S.G.: ≥0.7  
 The Guide Tube Size: φ21  
 Material: P.P  
 Limited Operating Temperature: 0~60°C

**φ28 x 27mm (SUS316)**

Float Size: φ28  
 Max. Working Pressure: 15 kg/cm<sup>2</sup>  
 Working S.G.: ≥0.8  
 The Guide Tube Size: φ8  
 Material: SUS316  
 Limited Operating Temperature: -20~140°C

**φ26 x 26mm (P.P)**

Float Size: φ26  
 Max. Working Pressure: 3 kg/cm<sup>2</sup>  
 Working S.G.: ≥0.7  
 The Guide Tube Size: φ8  
 Material: P.P  
 Limited Operating Temperature: 0~60°C

**φ36.2 x 51.5mm (SUS316)**

Float Size: φ36.2  
 Max. Working Pressure: 30 kg/cm<sup>2</sup>  
 Working S.G.: ≥0.8  
 The Guide Tube Size: φ9.5  
 Material: SUS316  
 Limited Operating Temperature: -20~140°C

**φ38 x 38mm (P.P) or (PVDF)**

Float Size: φ38  
 Max. Working Pressure: P.P: 3 kg/cm<sup>2</sup>; PVDF: 5 kg/cm<sup>2</sup>  
 Working S.G.: ≥0.7  
 The Guide Tube Size: φ12  
 Material: P.P or PVDF  
 Limited Operating Temperature: P.P: 0~60°C; PVDF: 0~120°C

## ON-OFF Gap

### A. Metal

<b>φ75 x 75mm (SUS316)</b> 	<b>φ49 x 49mm (SUS316)</b> 
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<b>φ40 x 38mm (SUS316)</b> 	<b>φ28 x 27mm (SUS316)</b> 
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**φ36.2 x 51.5mm (SUS316)**

### B. Non-Metal

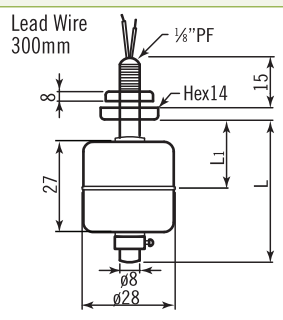
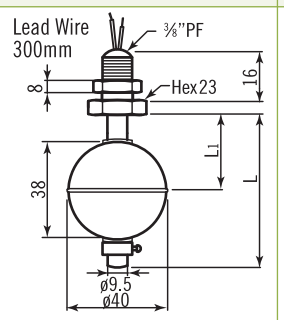
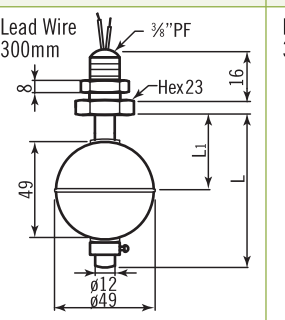
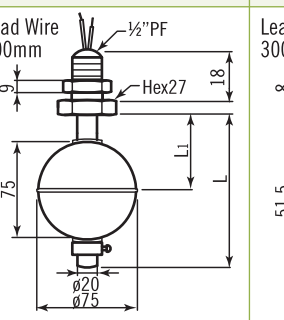
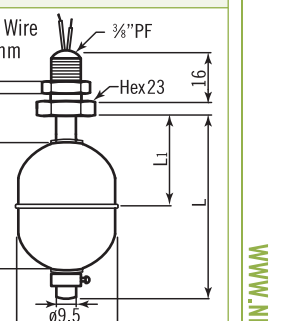
<b>φ50 x 70mm (P.V.C)</b> 	<b>φ50 x 75mm (PVDF)</b> 
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<b>φ50 x 75mm (P.P)</b> 	<b>φ26 x 26mm (P.P)</b> 
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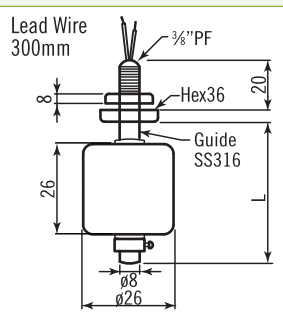
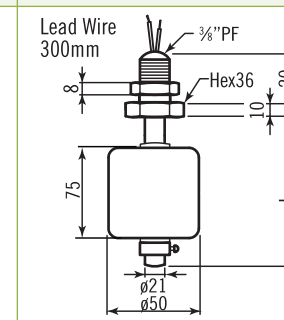
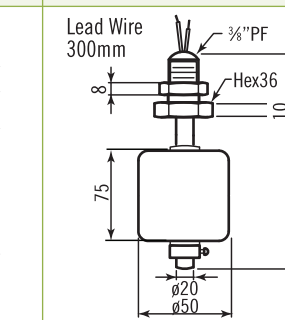
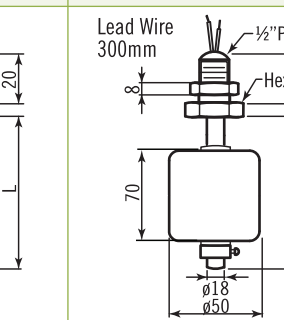
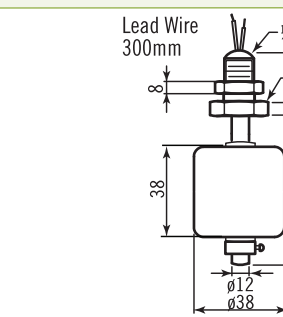
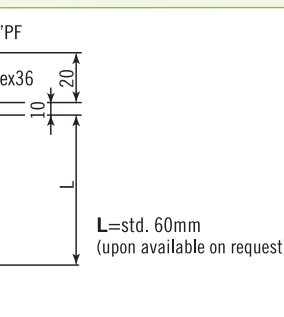
<b>φ38 x 38mm (P.P)</b> 	<b>φ38 x 38mm (PVDF)</b> 
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## LS-100 Series One Float Type

### Metal Float

LS-101	LS-102	LS-103	LS-104	LS-105
 <p>Lead Wire 300mm 1/8" PF Hex14 27 15 L<sub>1</sub> L ø8 ø28</p> <p>L=std. 48mm / L<sub>1</sub>=std. 21mm (upon available on request)</p>	 <p>Lead Wire 300mm 3/8" PF Hex23 38 16 L<sub>1</sub> L ø9.5 ø40</p> <p>L=std. 68mm / L<sub>1</sub>=std. 27mm (upon available on request)</p>	 <p>Lead Wire 300mm 3/8" PF Hex23 49 16 L<sub>1</sub> L ø12 ø49</p> <p>L=std. 80mm / L<sub>1</sub>=std. 32mm (upon available on request)</p>	 <p>Lead Wire 300mm 1/2" PF Hex27 75 18 L<sub>1</sub> L ø20 ø75</p> <p>L=std. 110mm / L<sub>1</sub>=std. 49mm (upon available on request)</p>	 <p>Lead Wire 300mm 3/8" PF Hex23 51.5 16 L<sub>1</sub> L ø9.5 ø36.2</p> <p>L=std. 82mm / L<sub>1</sub>=std. 31mm (upon available on request)</p>

### Non-Metal Float

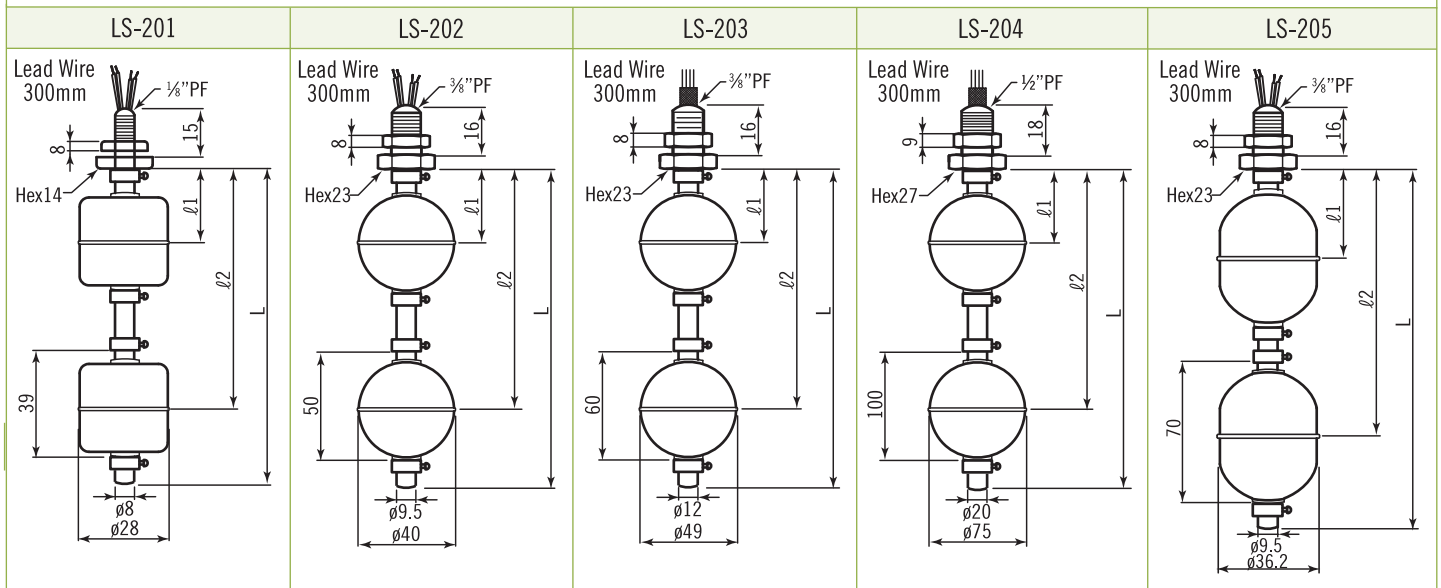
LS-101P (P.P)	LS-102P (P.P)	LS-103P (PVDF)	LS-104P (P.V.C)
 <p>Lead Wire 300mm 3/8" PF Hex36 26 20 L ø8 ø26 Guide SS316</p> <p>L=std. 48mm (upon available on request)</p>	 <p>Lead Wire 300mm 3/8" PF Hex36 75 10 L ø21 ø50</p> <p>L=std. 110mm (upon available on request)</p>	 <p>Lead Wire 300mm 3/8" PF Hex36 75 10 L ø20 ø50</p> <p>L=std. 110mm (upon available on request)</p>	 <p>Lead Wire 300mm 1/2" PF Hex36 70 10 L ø18 ø50</p> <p>L=std. 110mm (upon available on request)</p>
 <p>Lead Wire 300mm 1/2" PF Hex36 38 10 L ø12 ø38</p> <p>L=std. 60mm (upon available on request)</p>	 <p>Lead Wire 300mm 1/2" PF Hex36 38 10 L ø12 ø38</p> <p>L=std. 60mm (upon available on request)</p>		

### Ordering Information

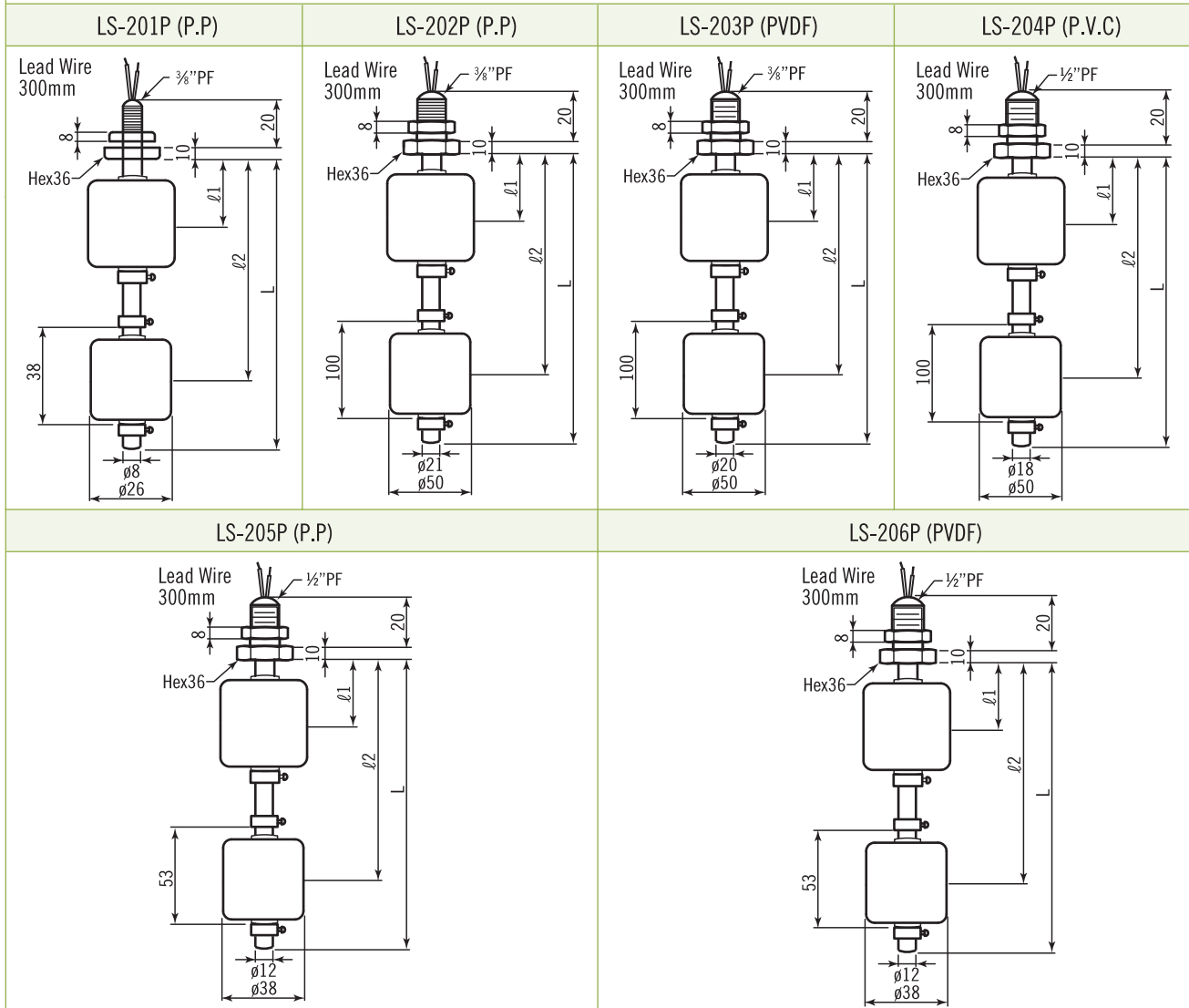
LS	Code	Model
	- Metal Float	101 102 103 104 105
	- Non-Metal Float	101P 102P 103P 104P 105P 106P
	<b>Code</b>	<b>Material of Wetted Parts</b>
		(1) SS304 (2) SS316 (3) P.V.C (4) P.P (5) PVDF (6) option
	<b>Code</b>	<b>Contact Form</b>
		(1) SPST (230V AC/DC) (2) SPDT (250V AC/DC) (3) SPDT (150V AC/DC)
	<b>Code</b>	<b>Wiring Code Numbers</b>
		Please refer to <i>Wiring Code Numbers</i> table.
	<b>Code</b>	<b>Float Size</b>
		(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) (I) ø38 x 38 (P.P) (J) ø38 x 38 (PVDF) (K) ø36.2 x 51.5 (SS316)
	<b>Code</b>	<b>Total Insertion Length</b>
		L=_____mm
	<b>Code</b>	<b>Setting Point &amp; Switch Acting Functions</b>
		Please fill in the requested length and float Rised ↑ON or Fall down ↓ON ø1-_____mm □ ON

## LS-200 Series Two Float Type

### Metal Float



### Non-Metal Float



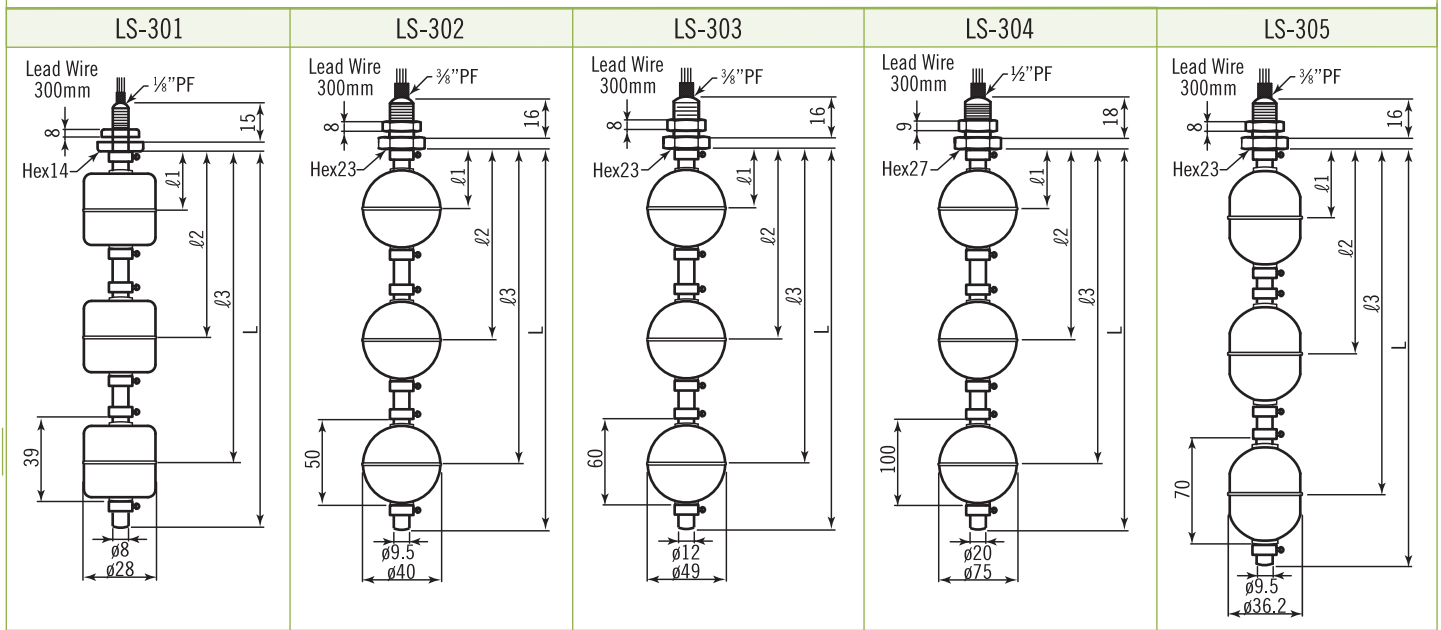
### Ordering Information

LS	Code	Model																								
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– Metal Float					– Non-Metal Float																					
201	202	203	204	205	201P	202P	203P	204P	205P	206P																
		<table border="1"> <tr> <th>Code</th> <th>Material of Wetted Parts</th> </tr> <tr> <td></td> <td>(1) SS304 (2) SS316 (3) P.V.C (4) P.P (5) PVDF (6) option</td> </tr> </table>	Code	Material of Wetted Parts		(1) SS304 (2) SS316 (3) P.V.C (4) P.P (5) PVDF (6) option																				
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		<table border="1"> <tr> <th>Code</th> <th>Contact Form</th> </tr> <tr> <td></td> <td>(1) SPST (230V AC/DC) (2) SPDT (250V AC/DC) (3) SPDT (150V AC/DC)</td> </tr> </table>	Code	Contact Form		(1) SPST (230V AC/DC) (2) SPDT (250V AC/DC) (3) SPDT (150V AC/DC)																				
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		<table border="1"> <tr> <th>Code</th> <th>Wiring Code Numbers</th> </tr> <tr> <td></td> <td>Please refer to <i>Wiring Code Numbers</i> table.</td> </tr> </table>	Code	Wiring Code Numbers		Please refer to <i>Wiring Code Numbers</i> table.																				
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		<table border="1"> <tr> <th>Code</th> <th>Float Size</th> </tr> <tr> <td></td> <td>(A) <math>\phi 28 \times 27</math> (SS316) (B) <math>\phi 40 \times 38</math> (SS316) (C) <math>\phi 49 \times 49</math> (SS316) (D) <math>\phi 75 \times 75</math> (SS316)                      (E) <math>\phi 26 \times 26</math> (P.P) (F) <math>\phi 50 \times 75</math> (P.P) (G) <math>\phi 50 \times 75</math> (PVDF) (H) <math>\phi 50 \times 70</math> (P.V.C)                      (I) <math>\phi 38 \times 38</math> (P.P) (J) <math>\phi 38 \times 38</math> (PVDF) (K) <math>\phi 36.2 \times 51.5</math> (SS316)</td> </tr> </table>	Code	Float Size		(A) $\phi 28 \times 27$ (SS316) (B) $\phi 40 \times 38$ (SS316) (C) $\phi 49 \times 49$ (SS316) (D) $\phi 75 \times 75$ (SS316) (E) $\phi 26 \times 26$ (P.P) (F) $\phi 50 \times 75$ (P.P) (G) $\phi 50 \times 75$ (PVDF) (H) $\phi 50 \times 70$ (P.V.C) (I) $\phi 38 \times 38$ (P.P) (J) $\phi 38 \times 38$ (PVDF) (K) $\phi 36.2 \times 51.5$ (SS316)																				
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		<table border="1"> <tr> <th>Code</th> <th>Total Insertion Length</th> </tr> <tr> <td></td> <td>L= _____ mm</td> </tr> </table>	Code	Total Insertion Length		L= _____ mm																				
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	L= _____ mm																									
		<table border="1"> <tr> <th>Code</th> <th>Setting Point &amp; Switch Acting Functions</th> </tr> <tr> <td></td> <td>Please fill in the requested length and float Rised <math>\uparrow</math>ON or Fall down <math>\downarrow</math>ON  <math>l1</math>= _____ mm <input type="checkbox"/> ON <math>l2</math>= _____ mm <input type="checkbox"/> ON</td> </tr> </table>	Code	Setting Point & Switch Acting Functions		Please fill in the requested length and float Rised $\uparrow$ ON or Fall down $\downarrow$ ON $l1$ = _____ mm <input type="checkbox"/> ON $l2$ = _____ mm <input type="checkbox"/> ON																				
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	Please fill in the requested length and float Rised $\uparrow$ ON or Fall down $\downarrow$ ON $l1$ = _____ mm <input type="checkbox"/> ON $l2$ = _____ mm <input type="checkbox"/> ON																									
LS		<b>Complete Ordering Code</b>																								

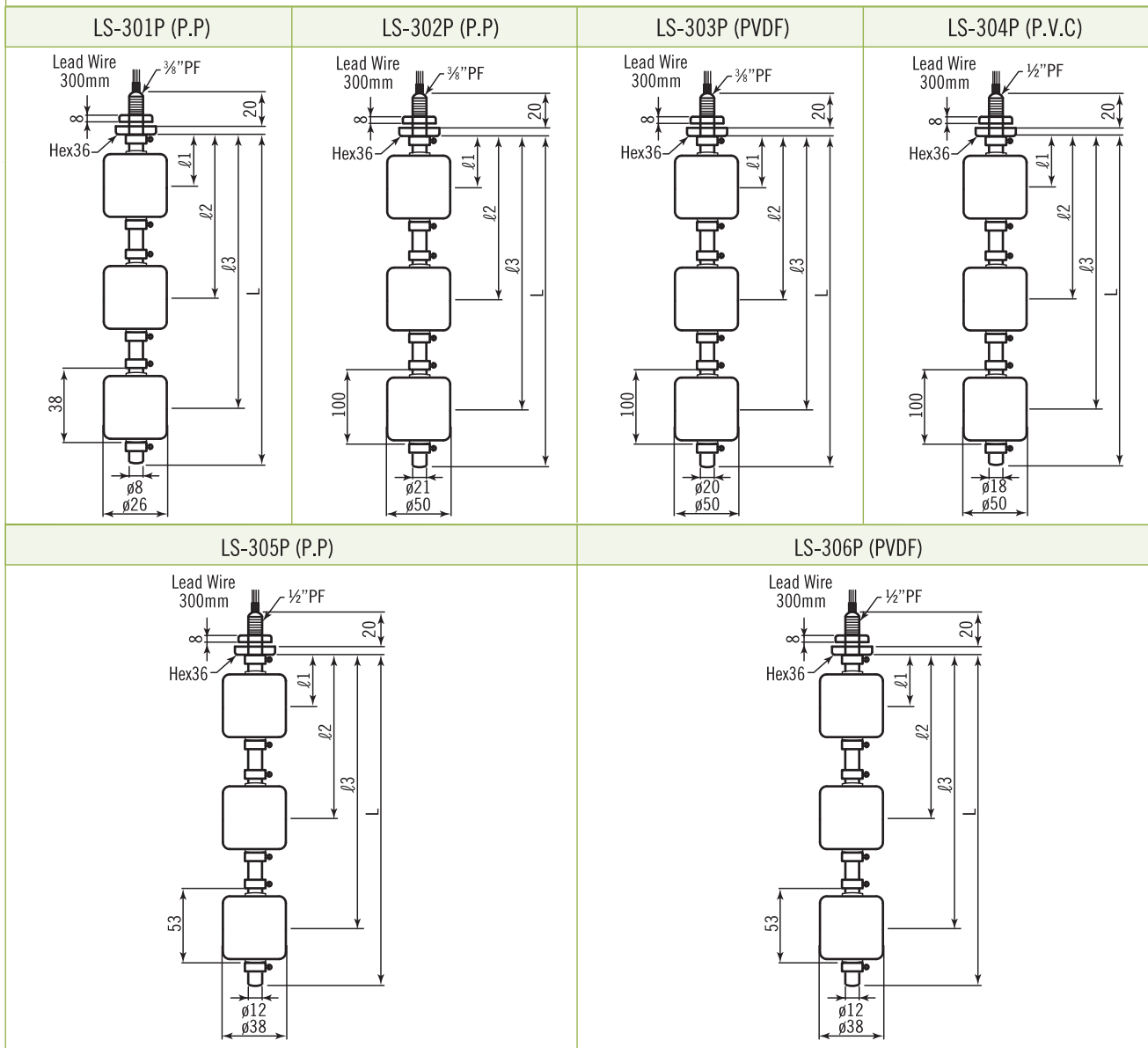


## LS-300 Series Three Float Type

### Metal Float



### Non-Metal Float



### Ordering Information

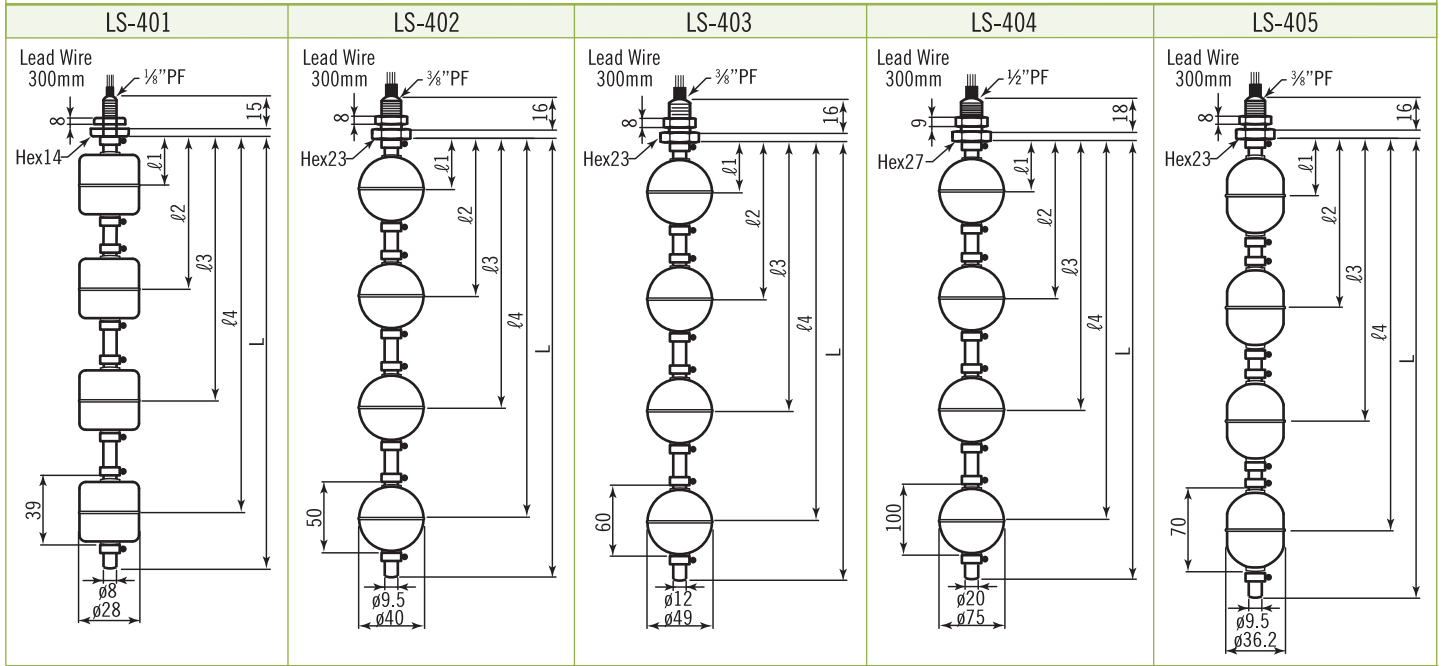
LS	Code	Model										
		– Metal Float					– Non-Metal Float					
		301	302	303	304	305	301P	302P	303P	304P	305P	306P
		<b>Code</b>	<b>Material of Wetted Parts</b>									
			(1) SS304 (2) SS316 (3) P.V.C (4) P.P (5) PVDF (6) option									
		<b>Code</b>	<b>Contact Form</b>									
			(1) SPST (230V AC/DC) (2) SPDT (250V AC/DC) (3) SPDT (150V AC/DC)									
		<b>Code</b>	<b>Wiring Code Numbers</b>									
			Please refer to <i>Wiring Code Numbers</i> table.									
		<b>Code</b>	<b>Float Size</b>									
			(A) $\phi 28 \times 27$ (SS316)    (B) $\phi 40 \times 38$ (SS316)    (C) $\phi 49 \times 49$ (SS316)    (D) $\phi 75 \times 75$ (SS316) (E) $\phi 26 \times 26$ (P.P)    (F) $\phi 50 \times 75$ (P.P)    (G) $\phi 50 \times 75$ (PVDF)    (H) $\phi 50 \times 70$ (P.V.C) (I) $\phi 38 \times 38$ (P.P)    (J) $\phi 38 \times 38$ (PVDF)    (K) $\phi 36.2 \times 51.5$ (SS316)									
		<b>Code</b>	<b>Total Insertion Length</b>									
			L= _____ mm									
		<b>Code</b>	<b>Setting Point &amp; Switch Acting Functions</b>									
			Please fill in the requested length and float Rised $\uparrow$ ON or Fall down $\downarrow$ ON $\ell 1$ = _____ mm <input type="checkbox"/> ON $\ell 2$ = _____ mm <input type="checkbox"/> ON $\ell 3$ = _____ mm <input type="checkbox"/> ON									
LS												

Complete Ordering Code

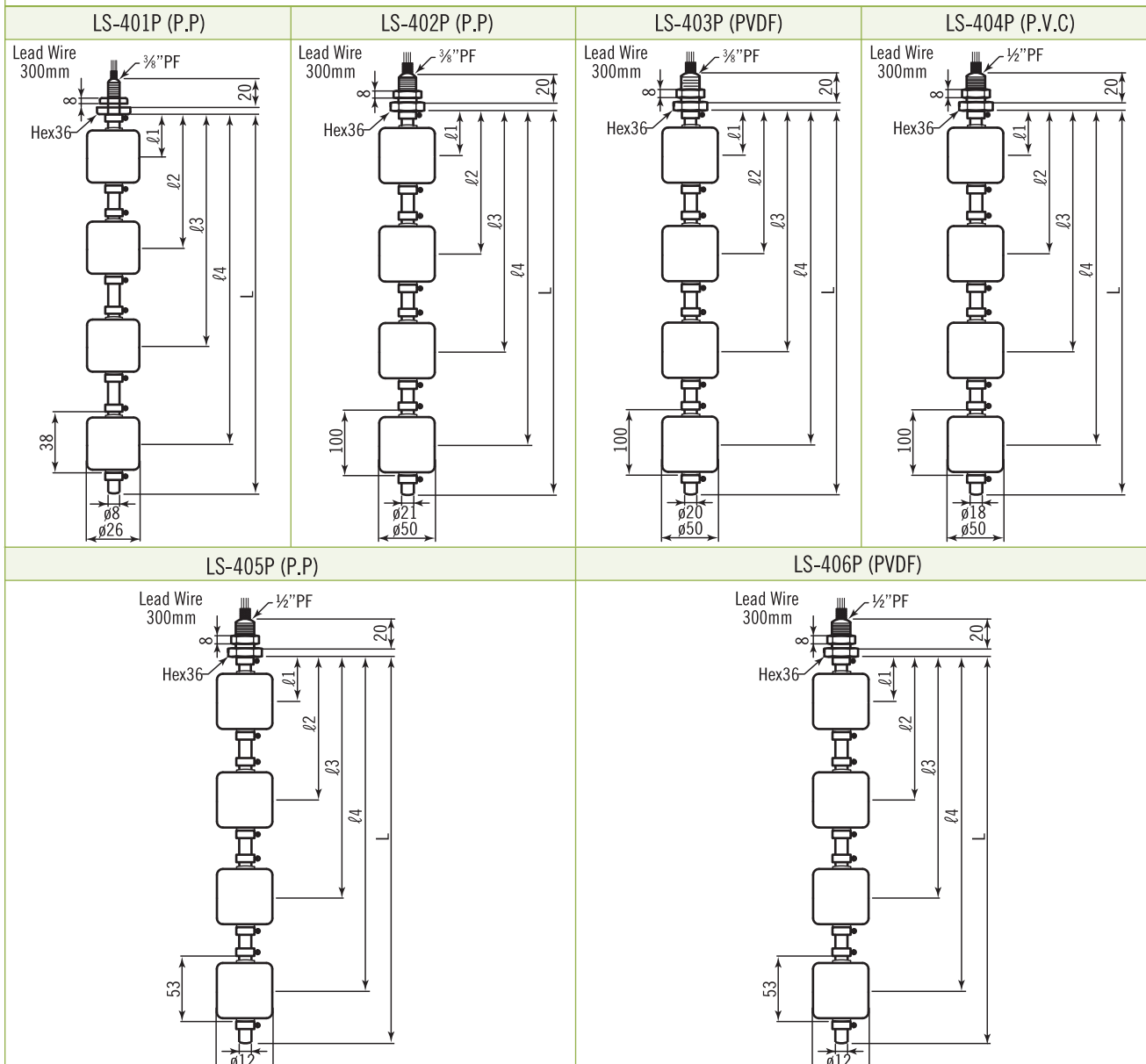


## LS-400 Series Four Float Type

### Metal Float



### Non-Metal Float



### Ordering Information

LS	Code	Model																						
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- Metal Float					- Non-Metal Float																			
401	402	403	404	405	401P	402P	403P	404P	405P	406P														
		<table border="1"> <tr> <th>Code</th> <th>Material of Wetted Parts</th> </tr> <tr> <td></td> <td>(1) SS304 (2) SS316 (3) P.V.C (4) P.P (5) PVDF (6) option</td> </tr> </table>	Code	Material of Wetted Parts		(1) SS304 (2) SS316 (3) P.V.C (4) P.P (5) PVDF (6) option																		
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LS		<b>Complete Ordering Code</b>																						

## WLS-100 Series One Float Type

### Metal Float

WLS-101	WLS-102	WLS-103	WLS-104	WLS-105

### Non-Metal Float

WLS-101P (P.P)	WLS-102P (P.P)	WLS-103P (PVDF)	WLS-104P (P.V.C)
WLS-105P (P.P)		WLS-106P (PVDF)	

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## Ordering Information

WLS	Code	Model																						
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- Metal Float					- Non-Metal Float																			
101	102	103	104	105	101P	102P	103P	104P	105P	106P														
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WLS		Complete Ordering Code																						

## WLS-200 Series Two Float Type

### Metal Float

WLS-201	WLS-202	WLS-203	WLS-204	WLS-205

### Non-Metal Float

WLS-201P (P.P)	WLS-202P (P.P)	WLS-203P (PVDF)	WLS-204P (P.V.C)
WLS-205P (P.P)		WLS-206P (PVDF)	

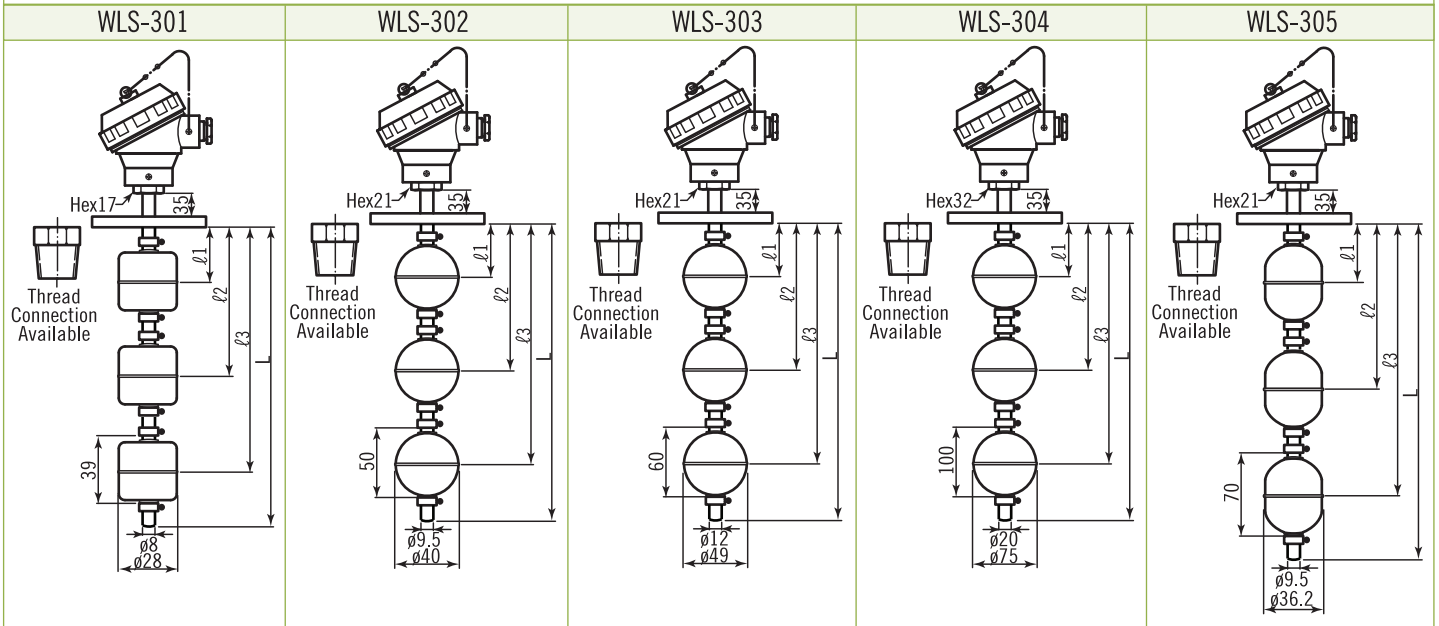
## Ordering Information

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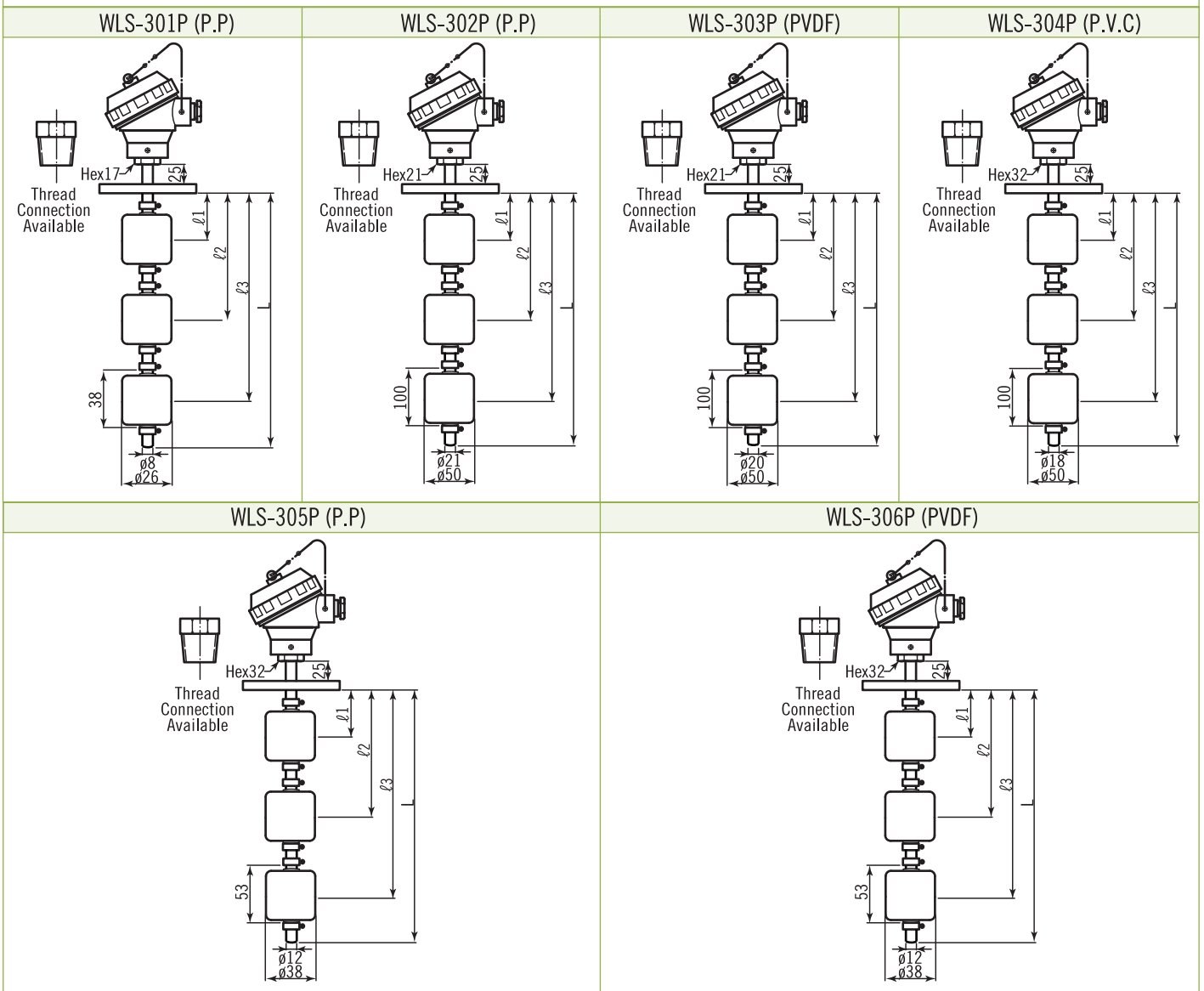


### WLS-300 Series Three Float Type

#### Metal Float



#### Non-Metal Float

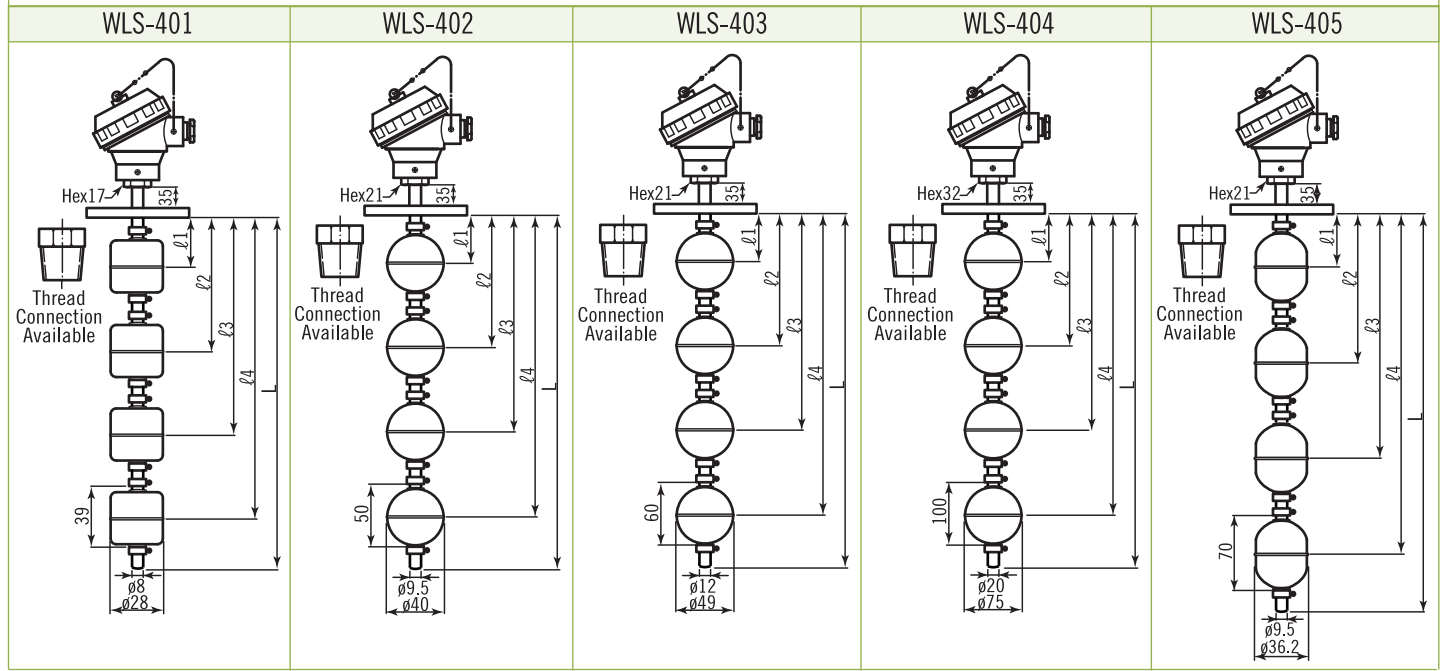


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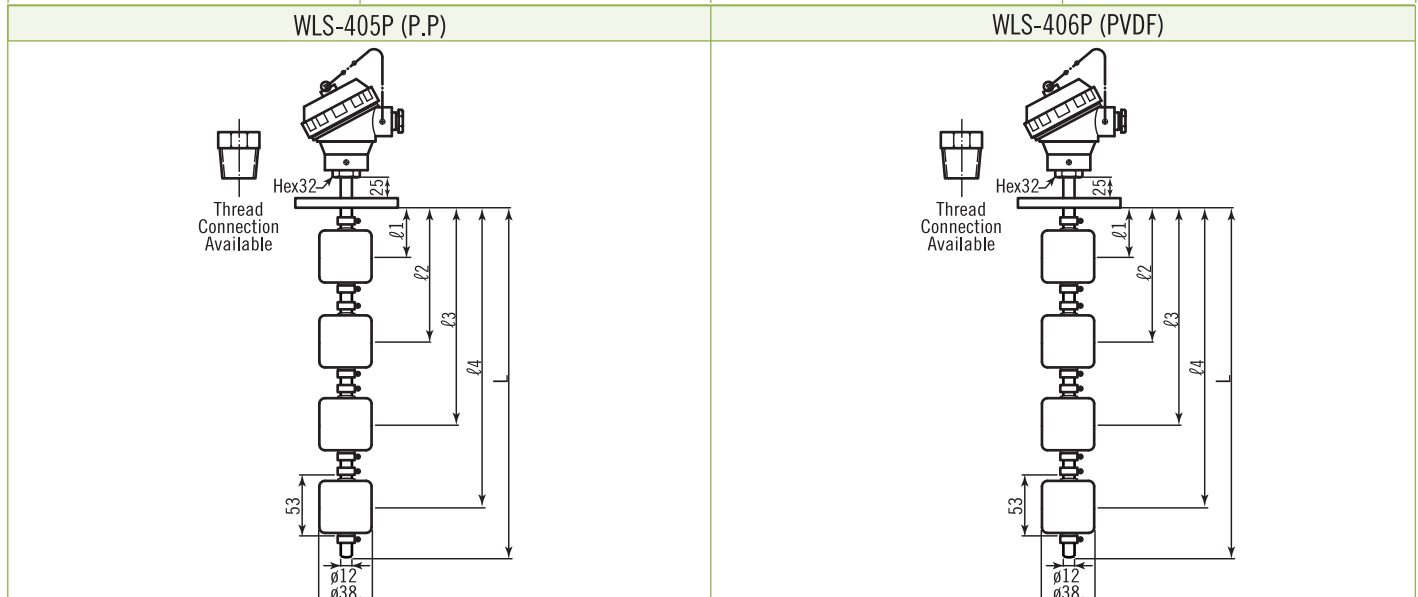
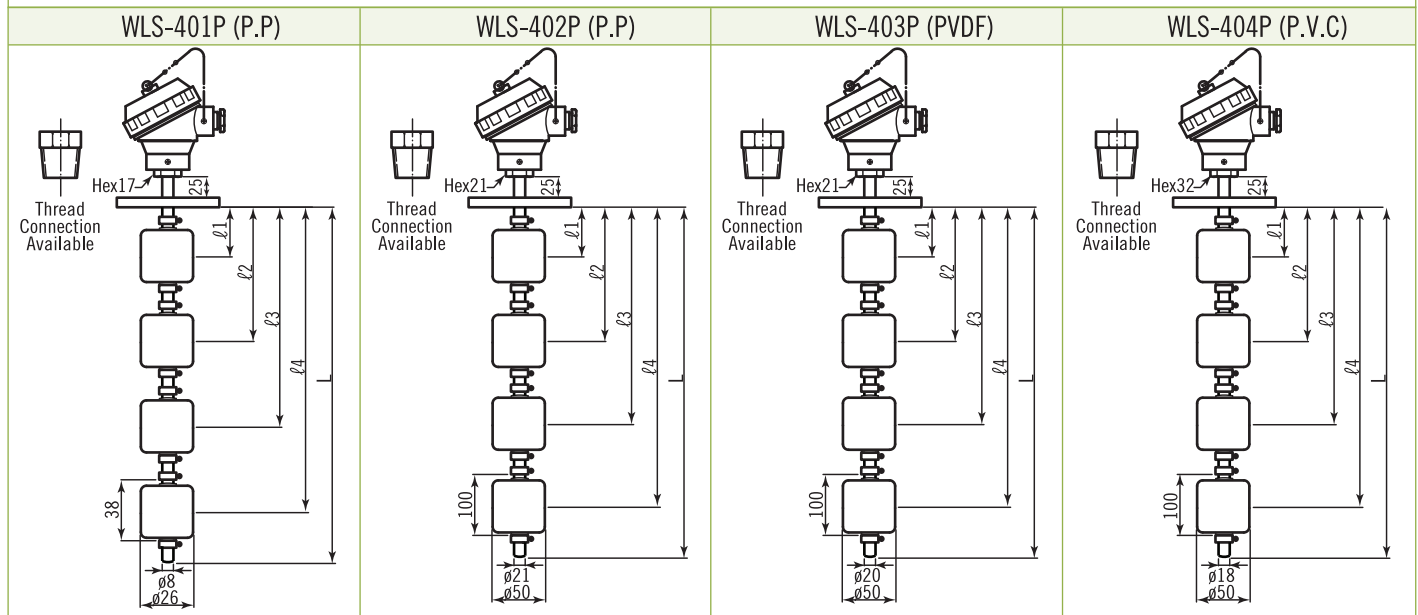
WLS	Code	Model	Code	Wiring Code Numbers
	- Metal Float	301 302 303 304 305		Please refer to <i>Wiring Code Numbers</i> table.
	- Non-Metal Float	301P 302P 303P 304P 305P 306P		
	<b>Code</b>	<b>Process Connection Size</b>	<b>Code</b>	<b>Head Type</b>
	A	1½" (for float ø28, ø40 only)		(1) HN type (2) HP type (3) MS-1 type (0) Option
	B	2" (float ø75 not available)	<b>Code</b>	<b>Float Size</b>
	C	3" <b>D</b> option		(A) ø28 x 27 (SS316) (B) ø40 x 38 (SS316) (C) ø49 x 49 (SS316)
	<b>Code</b>	<b>Process Connection Rating</b>		(D) ø75 x 75 (SS316) (E) ø26 x 26 (P.P) (F) ø50 x 75 (P.P)
		Thread type (A) PT (B) NPT (C) BSP (D) option		(G) ø50 x 75 (PVDF) (H) ø50 x 70 (P.V.C) (I) ø38 x 38 (P.P)
		Flange type (E) JIS 5K (F) JIS 10K (G) ANSI 150# (H) option	<b>Code</b>	<b>Conduit Connection</b>
	<b>Code</b>	<b>Material of Wetted Parts</b>		(A) ½"PF(F) (B) ½"NPT(F) (C) ¾"PF(F) (D) ¾"NPT(F) (0) Option
		(1) SS304 (2) SS316 (3) P.V.C (4) P.P	<b>Code</b>	<b>Total Insertion Length</b>
		(5) PVDF (6) option		L=_____mm
	<b>Code</b>	<b>Contact Form</b>	<b>Code</b>	<b>Setting Point &amp; Switch Acting Functions</b>
	1	SPST (230V AC/DC)		Please fill in the requested length and float Rised ↑ON or Fall down ↓ON
	2	SPDT (250V AC/DC)		ℓ1=_____mm <input type="checkbox"/> ON
	3	SPDT (150V AC/DC)		ℓ2=_____mm <input type="checkbox"/> ON
				ℓ3=_____mm <input type="checkbox"/> ON
WLS			+	Complete Ordering Code

## WLS-400 Series Four Float Type

### Metal Float



### Non-Metal Float



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## Ordering Information

WLS	Code	Model	Code	Wiring Code Numbers
	– Metal Float	401 402 403 404 405		Please refer to <i>Wiring Code Numbers</i> table.
	– Non-Metal Float	401P 402P 403P 404P 405P 406P		
	<b>Code</b>	<b>Process Connection Size</b>		<b>Code</b> <b>Head Type</b>
	<b>A</b>	1½" (for float ø28, ø40 only)		(1) HN type (2) HP type
	<b>B</b>	2" (float ø75 not available)		(3) MS-1 type (If require 4xSPDT, only MS-1 can select.)
	<b>C</b>	3" <b>D</b> option		(0) Option
	<b>Code</b>	<b>Process Connection Rating</b>		<b>Code</b> <b>Float Size</b>
		Thread type (A) PT (B) NPT (C) BSP (D) option		(A) ø28 x 27 (SS316) (B) ø40 x 38 (SS316) (C) ø49 x 49 (SS316)
		Flange type (E) JIS 5K (F) JIS 10K (G) ANSI 150# (H) option		(D) ø75 x 75 (SS316) (E) ø26 x 26 (P.P) (F) ø50 x 75 (P.P)
	<b>Code</b>	<b>Material of Wetted Parts</b>		(G) ø50 x 75 (PVDF) (H) ø50 x 70 (P.V.C) (I) ø38 x 38 (P.P)
		(1) SS304 (2) SS316 (3) P.V.C (4) P.P		(J) ø38 x 38 (PVDF) (K) ø36.2 x 51.5 (SS316)
		(5) PVDF (6) option		<b>Code</b> <b>Conduit Connection</b>
	<b>Code</b>	<b>Contact Form</b>		(A) ½"PF(F) (B) ½"NPT(F) (C) ¾"PF(F) (D) ¾"NPT(F)
	<b>1</b>	SPST (230V AC/DC)		(0) Option
	<b>2</b>	SPDT (250V AC/DC)		<b>Code</b> <b>Total Insertion Length</b>
	<b>3</b>	SPDT (150V AC/DC)		L= _____ mm
				<b>Code</b> <b>Setting Point &amp; Switch Acting Functions</b>
				Please fill in the requested length and float Rised ↑ON or Fall down ↓ON
				ℓ1= _____ mm <input type="checkbox"/> ON
				ℓ2= _____ mm <input type="checkbox"/> ON
				ℓ3= _____ mm <input type="checkbox"/> ON
				ℓ4= _____ mm <input type="checkbox"/> ON
<b>WLS</b>			+	<b>Complete Ordering Code</b>



## Ordering Information

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ELS		Complete Ordering Code																																					



### ELS-200 Series Two Float Type

#### Metal Float

ELS-201	ELS-202	ELS-203	ELS-204	ELS-205

#### Non-Metal Float

ELS-201P (P.P)	ELS-202P (P.P)	ELS-203P (PVDF)	ELS-204P (P.V.C)
ELS-205P (P.P)	ELS-206P (PVDF)		

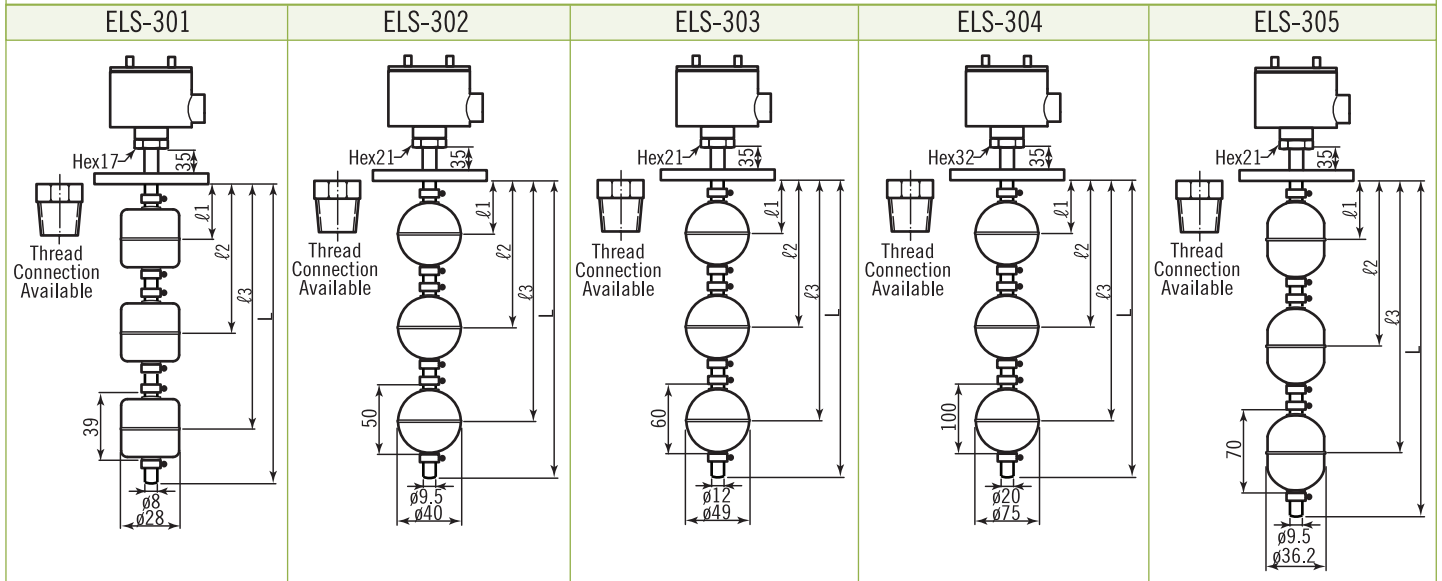
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## Ordering Information

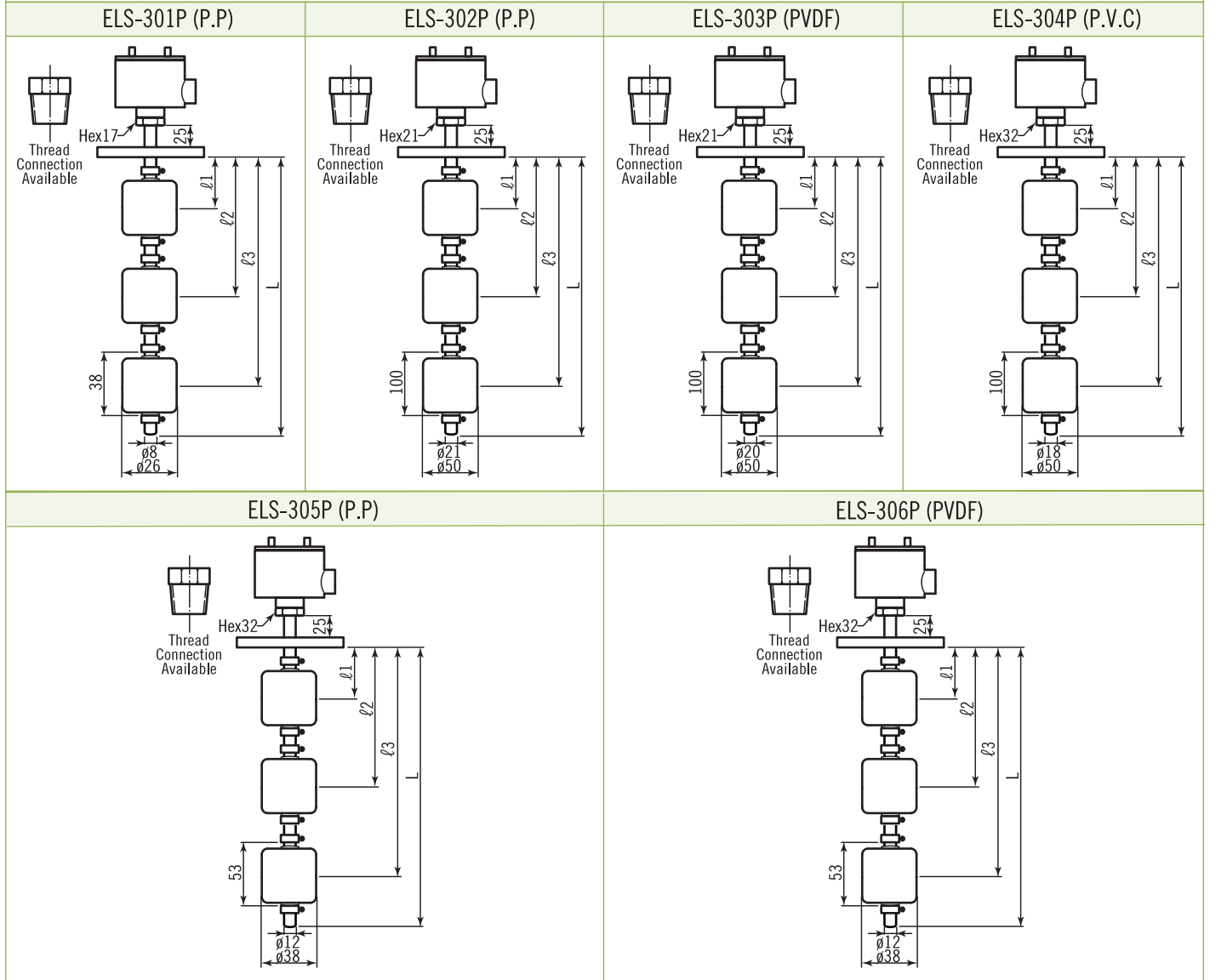
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### ELS-300 Series Three Float Type

#### Metal Float



#### Non-Metal Float



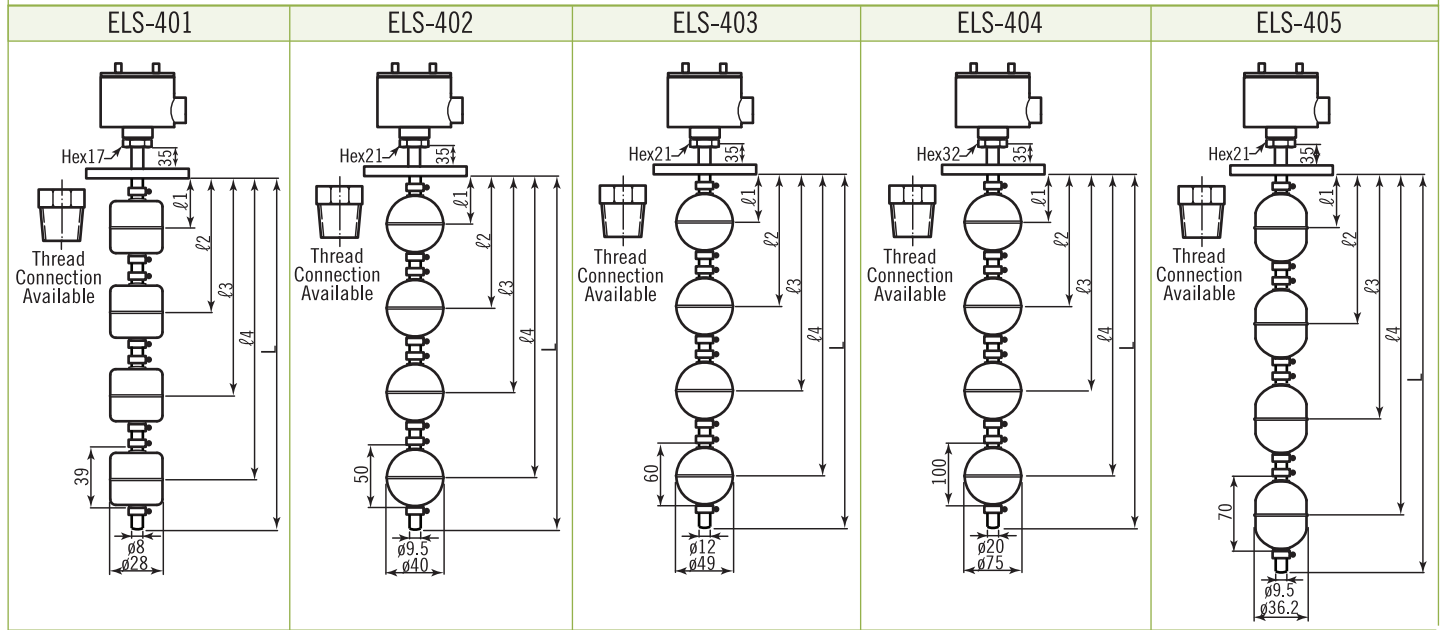
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## Ordering Information

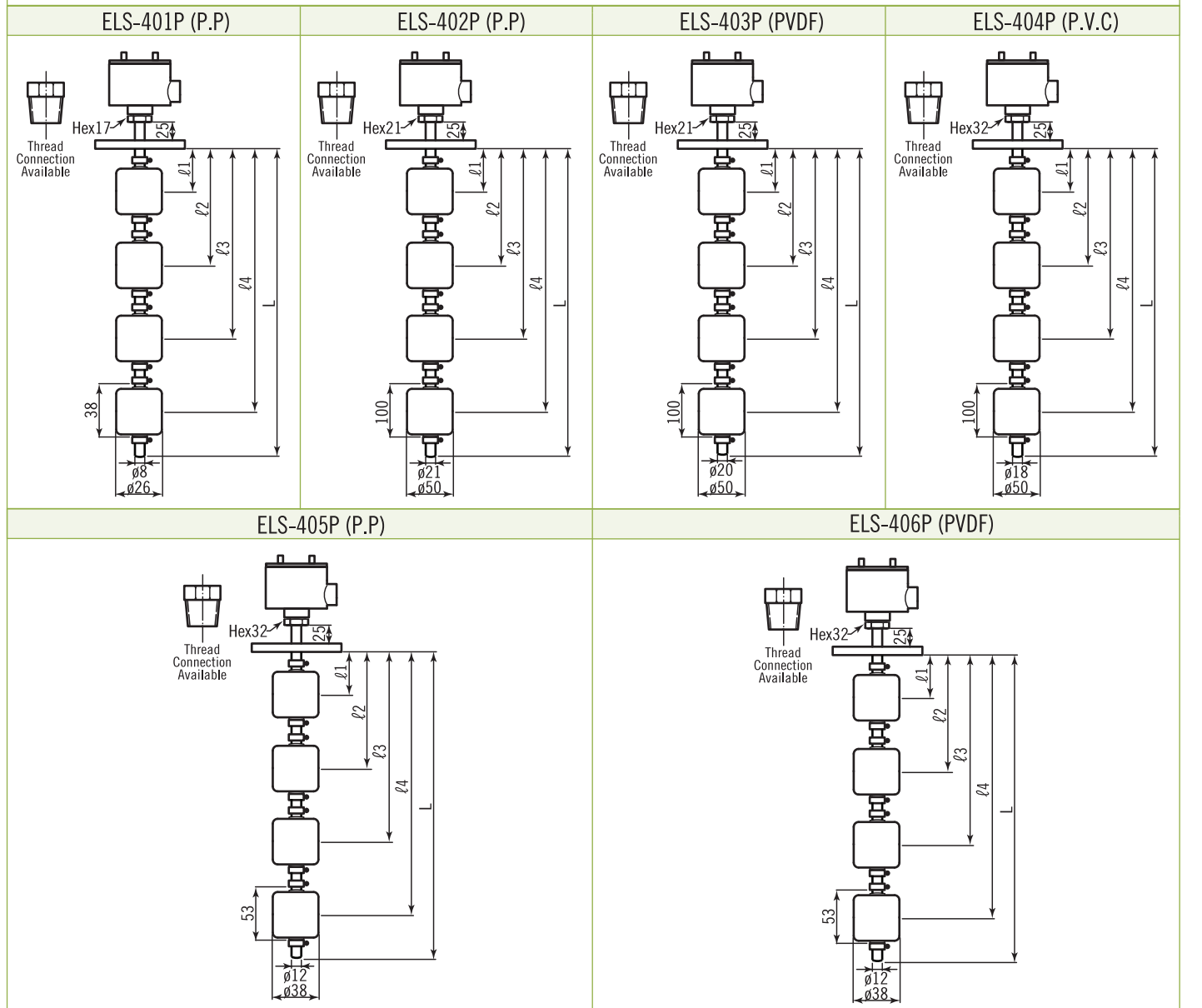
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### ELS-400 Series Four Float Type

#### Metal Float



#### Non-Metal Float



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## Ordering Information

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Code	Explosion Proof Type / Head Housing Type																																												
A	<b>Certificate on Housing Only / S2:</b> EEx d IIC-T6, II 2 GD																																												
B	<b>Taiwan Explosion Proof Certification / ES &amp; EA:</b> Ex d IIB + H2 T6 Gb																																												
S	<b>Certificate on Housing Only / XDS &amp; XDA:</b> II 2G D Ex db IIC T6 Gb; II 2G D Ex tb IIIC T100°C Db																																												
ELS		Complete Ordering Code																																											



### LA-100 Series One Float Type

#### Metal Float

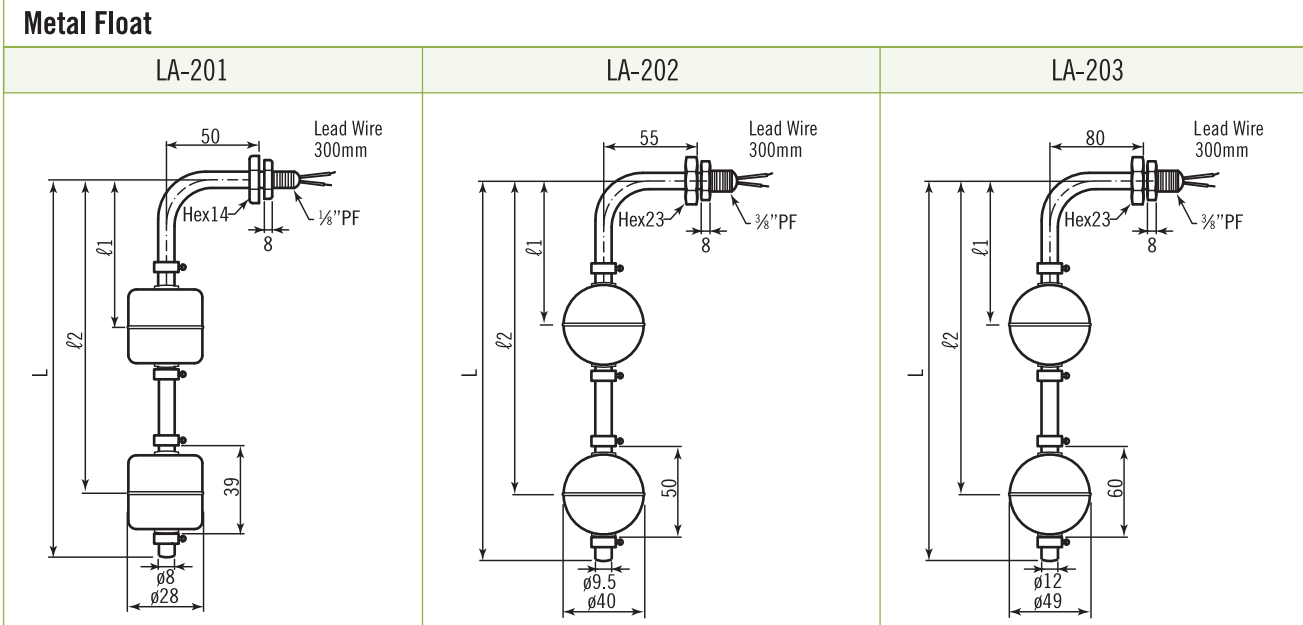
LA-101	LA-102	LA-103
<p>L = minimum 78mm ( ≥78mm on request)</p>	<p>L = minimum 95mm ( ≥95mm on request)</p>	<p>L = minimum 125mm ( ≥125mm on request)</p>

### Ordering Information

LA	Code	Model
– Metal Float		
	101	102    103
<b>Code</b>		<b>Material of Wetted Parts</b>
		(1) SS304 (2) SS316 (3) option
<b>Code</b>		<b>Contact Form</b>
		(1) SPST (230V AC/DC) (2) SPDT (250V AC/DC) (3) SPDT (150V AC/DC)
<b>Code</b>		<b>Wiring Code Numbers</b>
		Please refer to <i>Wiring Code Numbers</i> table.
<b>Code</b>		<b>Float Size</b>
		(A) $\phi 28 \times 27$ (SS316) (B) $\phi 40 \times 38$ (SS316) (C) $\phi 49 \times 49$ (SS316)
<b>Code</b>		<b>Total Insertion Length</b>
		L= _____ mm (please notice the minimum length as above drawing)
<b>Code</b>		<b>Setting Point &amp; Switch Acting Functions</b>
		Please fill in the requested length and float Rised ↑ ON or Fall Down ↓ ON $\ell 1 =$ _____ mm <input type="checkbox"/> ON
<b>Complete Ordering Code</b>		

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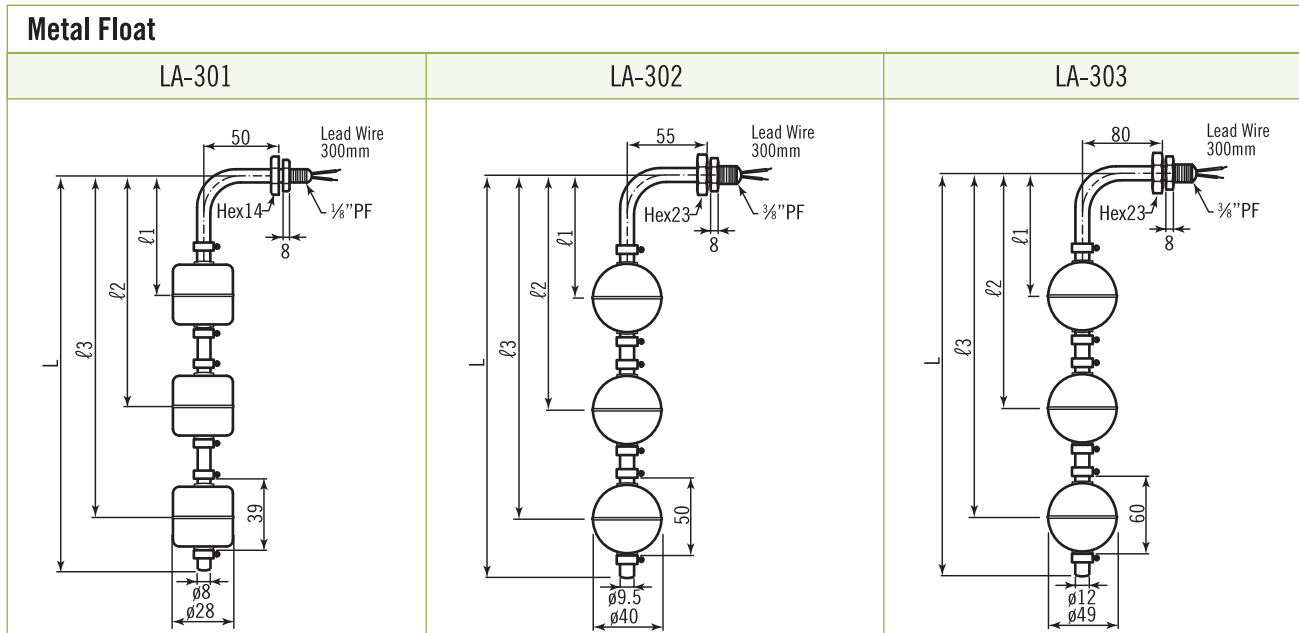
### LA-200 Series Two Float Type



### Ordering Information

LA	Code	Model
		– Metal Float
		201    202    203
		<b>Code</b> <b>Material of Wetted Parts</b>
		(1) SS304 (2) SS316 (3) option
		<b>Code</b> <b>Contact Form</b>
		(1) SPST (230V AC/DC) (2) SPDT (250V AC/DC) (3) SPDT (150V AC/DC)
		<b>Code</b> <b>Wiring Code Numbers</b>
		Please refer to <i>Wiring Code Numbers</i> table.
		<b>Code</b> <b>Float Size</b>
		(A) ø28 x 27 (SS316) (B) ø40 x 38 (SS316) (C) ø49 x 49 (SS316)
		<b>Code</b> <b>Total Insertion Length</b>
		L= _____ mm
		<b>Code</b> <b>Setting Point &amp; Switch Acting Functions</b>
		Please fill in the requested length and float Rised ↑ON or Fall down ↓ON l1= _____ mm <input type="checkbox"/> ON                      l2= _____ mm <input type="checkbox"/> ON
		<b>Complete Ordering Code</b>

### LA-300 Series Three Float Type



### Ordering Information

LA	Code	Model
		- Metal Float
		301    302    303
	<b>Code</b>	<b>Material of Wetted Parts</b>
		(1) SS304 (2) SS316 (3) P.V.C (4) P.P (5) PVDF (6) option
	<b>Code</b>	<b>Contact Form</b>
		(1) SPST (230V AC/DC) (2) SPDT (250V AC/DC) (3) SPDT (150V AC/DC)
	<b>Code</b>	<b>Wiring Code Numbers</b>
		Please refer to <i>Wiring Code Numbers</i> table.
	<b>Code</b>	<b>Float Size</b>
		(A) $\phi 28 \times 27$ (SS316) (B) $\phi 40 \times 38$ (SS316) (C) $\phi 49 \times 49$ (SS316)
	<b>Code</b>	<b>Total Insertion Length</b>
		L= _____ mm
	<b>Code</b>	<b>Setting Point &amp; Switch Acting Functions</b>
		Please fill in the requested length and float Rised $\uparrow$ ON or Fall down $\downarrow$ ON $\ell 1 =$ _____ mm <input type="checkbox"/> ON $\ell 2 =$ _____ mm <input type="checkbox"/> ON $\ell 3 =$ _____ mm <input type="checkbox"/> ON
		<b>Complete Ordering Code</b>

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### WLA-100 Series One Float Type

Metal Float		WLA-101	WLA-102	WLA-103	
L= minimum 78mm (≥78mm on request)		L= minimum 95mm (≥95mm on request)		L= minimum 125mm (≥125mm on request)	

### Ordering Information

<b>WLA</b>	<b>Code</b>	<b>Model</b>
		<b>– Metal Float</b>
	101   102   103	
	<b>Code</b>	<b>Material of Wetted Parts</b>
		(1) SS304   (2) SS316   (3) option
	<b>Code</b>	<b>Contact Form</b>
		(1) SPST (230V AC/DC)   (2) SPDT (250V AC/DC)   (3) SPDT (150V AC/DC)
	<b>Code</b>	<b>Wiring Code Numbers</b>
		Please refer to <i>Wiring Code Numbers</i> table.
	<b>Code</b>	<b>Head Type</b>
		(1) HN type   (2) HP type   (3) MS-1 type   (0) Option
	<b>Code</b>	<b>Float Size</b>
		(A) Ø28 x 27 (SS316)   (B) Ø40 x 38 (SS316)   (C) Ø49 x 49 (SS316)
	<b>Code</b>	<b>Total Insertion Length</b>
		L= _____ mm (please notice the minimum length as above drawing)
	<b>Code</b>	<b>Setting Point &amp; Switch Acting Functions</b>
		Please fill in the requested length and float Rised ↑ON or Fall Down ↓ON ⌀1= _____ mm <input type="checkbox"/> ON
		<b>Complete Ordering Code</b>

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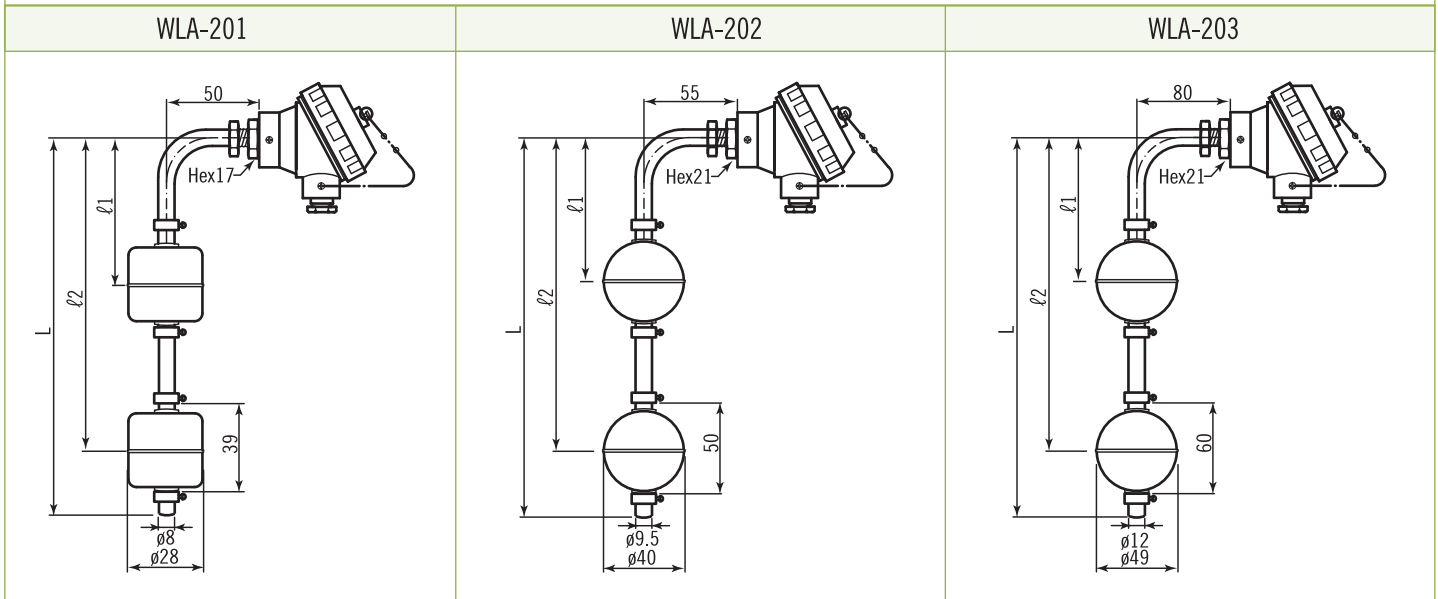
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### WLA-200 Series Two Float Type

#### Metal Float



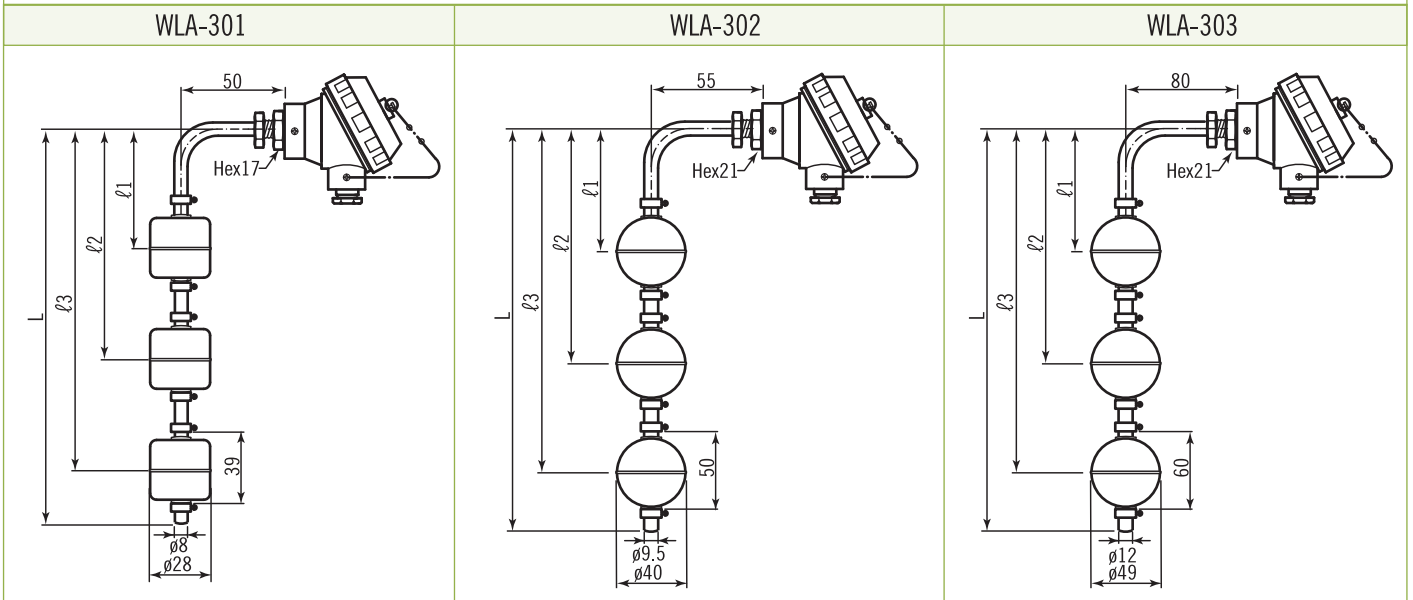
#### Ordering Information

WLA	Code	Model										
- Metal Float												
	201	202 203										
<b>Code</b>		<b>Material of Wetted Parts</b>										
		(1) SS304 (2) SS316 (3) option										
<b>Code</b>		<b>Contact Form</b>										
		(1) SPST (230V AC/DC) (2) SPDT (250V AC/DC) (3) SPDT (150V AC/DC)										
<b>Code</b>		<b>Wiring Code Numbers</b>										
		Please refer to <i>Wiring Code Numbers</i> table.										
<b>Code</b>		<b>Head Type</b>										
		(1) HN type (2) HP type (3) MS-1 type (0) Option										
<b>Code</b>		<b>Float Size</b>										
		(A) $\phi 28 \times 27$ (SS316) (B) $\phi 40 \times 38$ (SS316) (C) $\phi 49 \times 49$ (SS316)										
<b>Code</b>		<b>Total Insertion Length</b>										
		L=_____mm										
<b>Code</b>		<b>Setting Point &amp; Switch Acting Functions</b>										
		Please fill in the requested length and float Rised $\uparrow$ ON or Fall down $\downarrow$ ON $l1$ =_____mm <input type="checkbox"/> ON $l2$ =_____mm <input type="checkbox"/> ON										
<table border="1" style="width:100%; height:20px;"> <tr> <td style="width:12.5%;"></td> <td style="width:12.5%;"></td> <td style="width:12.5%;"></td> <td style="width:12.5%;"></td> <td style="width:12.5%;"></td> <td style="width:12.5%;"></td> <td style="width:12.5%;"></td> <td style="width:12.5%;"></td> <td style="width:12.5%;"></td> <td style="width:12.5%;"></td> </tr> </table>												
<b>Complete Ordering Code</b>												

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### WLA-300 Series Three Float Type

#### Metal Float



### Ordering Information

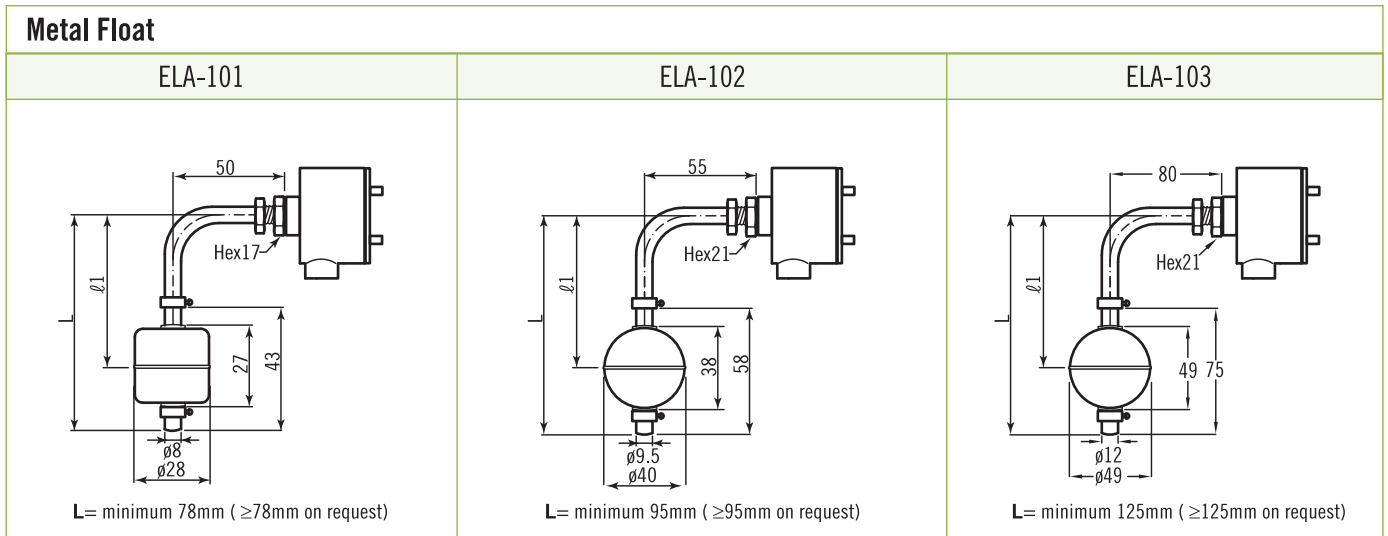
WLA	Code	Model			
↓	<b>– Metal Float</b>				
		301	302	303	
		<b>Code</b>	<b>Material of Wetted Parts</b>		
			(1) SS304 (2) SS316 (3) option		
		<b>Code</b>	<b>Contact Form</b>		
			(1) SPST (230V AC/DC) (2) SPDT (250V AC/DC) (3) SPDT (150V AC/DC)		
		<b>Code</b>	<b>Wiring Code Numbers</b>		
			Please refer to <i>Wiring Code Numbers</i> table.		
		<b>Code</b>	<b>Head Type</b>		
			(1) HN type (2) HP type (3) MS-1 type (0) Option		
		<b>Code</b>	<b>Float Size</b>		
		(A) ø28 x 27 (SS316) (B) ø40 x 38 (SS316) (C) ø49 x 49 (SS316)			
	<b>Code</b>	<b>Total Insertion Length</b>			
		L= _____ mm			
	<b>Code</b>	<b>Setting Point &amp; Switch Acting Functions</b>			
		Please fill in the requested length and float Rised ↑ON or Fall down ↓ON ℓ1= _____ mm <input type="checkbox"/> ON   ℓ2= _____ mm <input type="checkbox"/> ON   ℓ3= _____ mm <input type="checkbox"/> ON			
	<b>Complete Ordering Code</b>				

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## ELA-100 Series One Float Type

### Metal Float

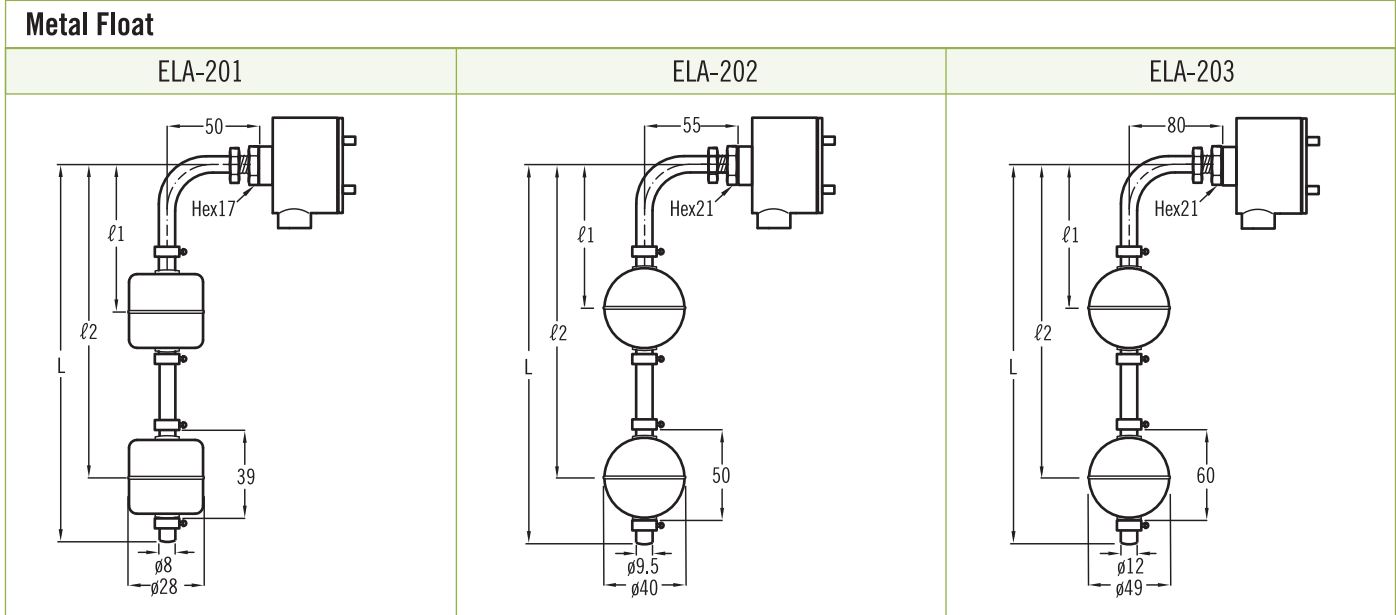


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## Ordering Information

ELA	Code	Model							
		<b>- Metal Float</b>							
			101	102	103				
		<b>Code</b>	<b>Material of Wetted Parts</b>						
			(1) SS304 (2) SS316 (3) P.V.C (4) P.P (5) PVDF (6) option						
		<b>Code</b>	<b>Contact Form</b>						
			(1) SPST (230V AC/DC) (2) SPDT (250V AC/DC) (3) SPDT (150V AC/DC)						
		<b>Code</b>	<b>Wiring Code Numbers</b>						
			Please refer to <i>Wiring Code Numbers</i> table.						
		<b>Code</b>	<b>Head Type</b>						
			(1) XDS type (2) XDA type (3) S2 type (4) ES type (5) EA type (6) Option						
		<b>Code</b>	<b>Float Size</b>						
			(A) ø28 x 27 (SS316) (B) ø40 x 38 (SS316) (C) ø49 x 49 (SS316)						
		<b>Code</b>	<b>Total Insertion Length</b>						
			L= _____ mm (please notice the minimum length as above drawing)						
		<b>Code</b>	<b>Setting Point &amp; Switch Acting Functions</b>						
			Please fill in the requested length and float Rised ↑ON or Fall Down ↓ON ø1= _____ mm <input type="checkbox"/> ON						
								<b>Complete Ordering Code</b>	

## ELA-200 Series Two Float Type



## Ordering Information

ELA	Code	Model
		<b>- Metal Float</b>
		201    202    203
	<b>Code</b>	<b>Material of Wetted Parts</b>
		(1) SS304 (2) SS316 (3) option
	<b>Code</b>	<b>Contact Form</b>
		(1) SPST (230V AC/DC) (2) SPDT (250V AC/DC) (3) SPDT (150V AC/DC)
	<b>Code</b>	<b>Wiring Code Numbers</b>
		Please refer to <i>Wiring Code Numbers</i> table.
	<b>Code</b>	<b>Head Type</b>
		(1) XDS type (2) XDA type (3) S2 type (4) ES type (5) EA type (6) Option
	<b>Code</b>	<b>Float Size</b>
		(A) ø28 x 27 (SS316) (B) ø40 x 38 (SS316) (C) ø49 x 49 (SS316)
	<b>Code</b>	<b>Total Insertion Length</b>
		L=_____mm
	<b>Code</b>	<b>Setting Point &amp; Switch Acting Functions</b>
		Please fill in the requested length and float Rised $\uparrow$ ON or Fall down $\downarrow$ ON $\ell$ 1=_____mm <input type="checkbox"/> ON $\ell$ 2=_____mm <input type="checkbox"/> ON
		<b>Complete Ordering Code</b>



