

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 <u>Except</u> ø28: 3 setting points only | float size > ø49 available <u>Except</u> 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 | 4xSPST | SPST (Common Wire Style) | 4xSPDT |

*Float numbers more than four float on request, please contact to manufactory.



Approvals:

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

ABS
 TYPE APPROVED PRODUCT

BUREAU VERITAS
 BV Mode B Approval

ETL
 Intertek

Switches with Intertek Test Report, refer to UL508 Standard.



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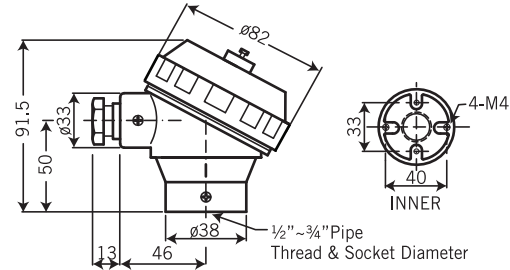
Head Type Technical Data



HN TYPE

HN Type

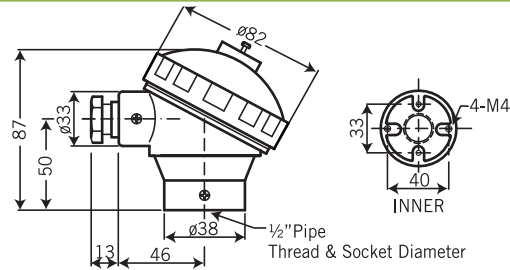
Protection: IP68
Material: Aluminum Alloy
Weight: 264g
Protection tube connection: 1/2", 3/4" (PF,NPT,BSP); M20 x 1.5
Extension wire connection: 1/2", 3/4" (PF,NPT,BSP); M20 x 1.5
 Other specifications are available on request.



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.

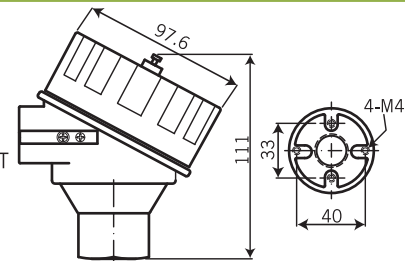


XDS/XDA TYPE

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, G1/2", G3/4", 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 Gb
 Ex tb IIIC Db

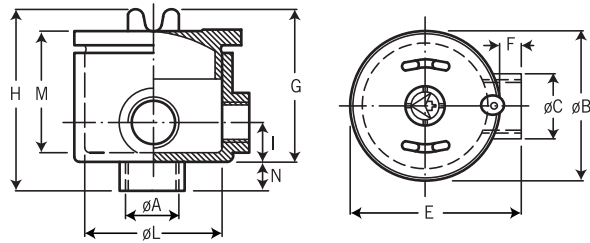
FM Approvals: XP/II/1/ABCD/T6; DIP/II, III/1/EF/T6; Type 4X
 Explosionproof for Class I, Division 1, Groups A,B,C and D; and dust-ignitionproof for Class II, III Division 1, Groups E,F and G, hazardous (classified) locations; indoor/ outdoor (NEMA Type 4X).



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. | |
|------|------------|------|----|----|-----|----|----|----|----|----|----|-----------------------------|--------------------|-----|
| | unit=mm | 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 ² | 510 |

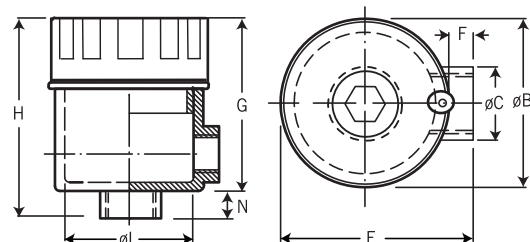


ES/EA TYPE

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

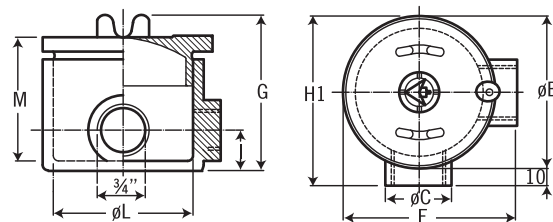
| Type | Dimensions | | | | | | | | |
|-------|------------|----|----|------|----|----|------|----|----|
| | unit=mm | G | H | øL | N | øB | øC | E | F |
| ES/EA | | 76 | 90 | 56.5 | 14 | 74 | 35.5 | 87 | 13 |



MS-1

MS-1 Type

Protection: IP66
Material: Aluminum Alloy



| Type | Dimensions | | | | | | | | | Terminal Block (on request) |
|------|------------|-----|----|-----|----|-----|----|----|----|-----------------------------|
| | unit=mm | øB | øC | E | G | H1 | I | øL | M | |
| MS-1 | | 100 | 38 | 110 | 80 | 100 | 24 | 88 | 68 | 4x4mm ² |

Float Specification

φ75 x 75mm (SUS316)

Float Size: φ75
 Max. Working Pressure: 30 kg/cm²
 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/cm²
 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/cm²
 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/cm²
 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/cm²
 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/cm²
 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/cm²
 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/cm²
 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/cm²
 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/cm²; PVDF: 5 kg/cm²
 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

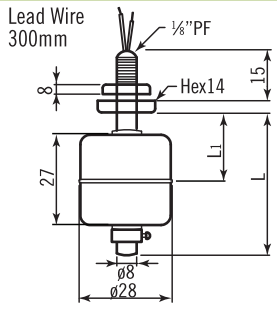
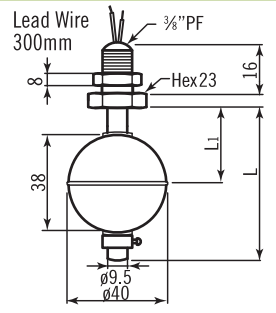
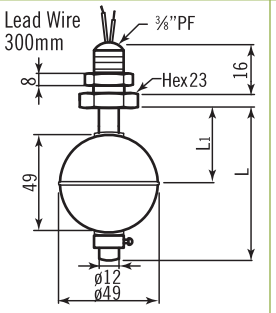
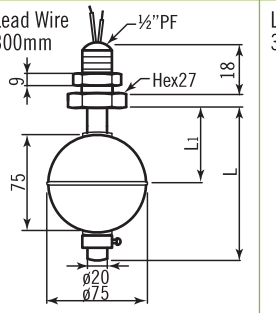
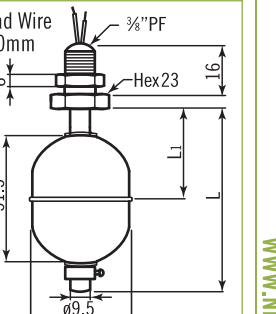
A. Metal

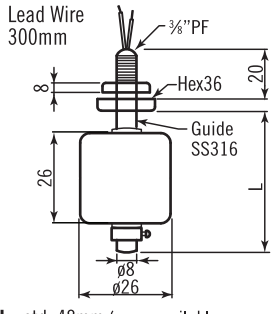
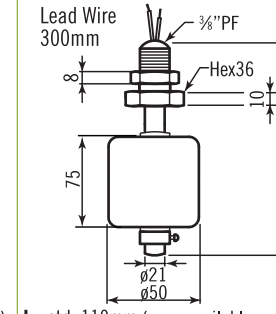
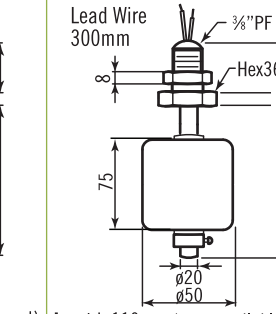
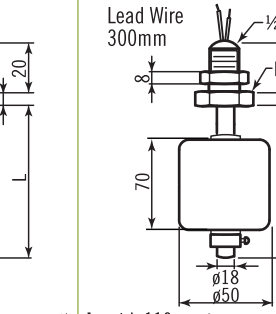
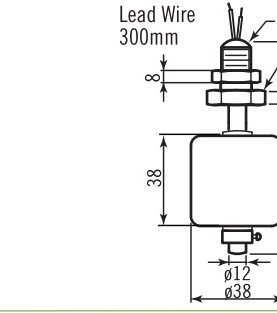
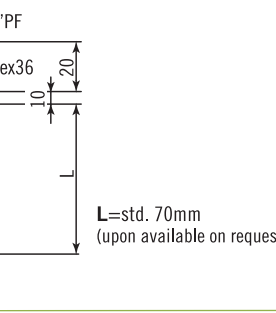
| | |
|---------------------------------------|-----------------------------------|
| <p>φ75 x 75mm (SUS316)</p> | <p>φ49 x 49mm (SUS316)</p> |
| <p>φ40 x 38mm (SUS316)</p> | <p>φ28 x 27mm (SUS316)</p> |
| <p>φ36.2 x 51.5mm (SUS316)</p> | |

B. Non-Metal

| | |
|----------------------------------|---------------------------------|
| <p>φ50 x 70mm (P.V.C)</p> | <p>φ50 x 75mm (PVDF)</p> |
| <p>φ50 x 75mm (P.P)</p> | <p>φ26 x 26mm (P.P)</p> |
| <p>φ38 x 38mm (P.P)</p> | <p>φ38 x 38mm (PVDF)</p> |

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 L₁ L ø8 ø28</p> <p>L=std. 48mm / L₁=std. 21mm (upon available on request)</p> |  <p>Lead Wire 300mm 3/8" PF Hex23 38 16 L₁ L ø9.5 ø40</p> <p>L=std. 68mm / L₁=std. 27mm (upon available on request)</p> |  <p>Lead Wire 300mm 3/8" PF Hex23 49 16 L₁ L ø12 ø49</p> <p>L=std. 80mm / L₁=std. 32mm (upon available on request)</p> |  <p>Lead Wire 300mm 1/2" PF Hex27 75 18 L₁ L ø20 ø75</p> <p>L=std. 110mm / L₁=std. 49mm (upon available on request)</p> |  <p>Lead Wire 300mm 3/8" PF Hex23 51.5 16 L₁ L ø9.5 ø36.2</p> <p>L=std. 82mm / L₁=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. 70mm (upon available on request)</p> |  <p>Lead Wire 300mm 1/2" PF Hex36 38 10 L ø12 ø38</p> <p>L=std. 70mm (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 |
| ↓ | Code | Material of Wetted Parts | | | | | |
| | | (1) SS304 (2) SS316 (3) P.V.C (4) P.P (5) PVDF (6) option | | | | | |
| ↓ | Code | Contact Form | | | | | |
| | | (1) SPST (230V AC/DC) (2) SPDT (250V AC/DC) (3) SPDT (150V AC/DC) | | | | | |
| ↓ | Code | Wiring Code Numbers | | | | | |
| | | Please refer to <i>Wiring Code Numbers</i> 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) (I) ø38 x 38 (P.P) (J) ø38 x 38 (PVDF) (K) ø36.2 x 51.5 (SS316) | | | | | |
| ↓ | 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 L ₁ =_____mm <input type="checkbox"/> ON | | | | | |
| LS | | | | | | | Complete Ordering Code |

LS-200 Series Two Float Type

Metal Float

| LS-201 | LS-202 | LS-203 | LS-204 | LS-205 |
|---|---|--|---|---|
| <p>Lead Wire 300mm 3/8" PF Hex14 8 15 1 L 39 8 28</p> | <p>Lead Wire 300mm 3/8" PF Hex23 8 16 1 L 50 9.5 40</p> | <p>Lead Wire 300mm 3/8" PF Hex23 8 16 1 L 60 12 49</p> | <p>Lead Wire 300mm 1/2" PF Hex27 9 18 1 L 100 20 75</p> | <p>Lead Wire 300mm 3/8" PF Hex23 8 16 1 L 70 9.5 36.2</p> |

Non-Metal Float

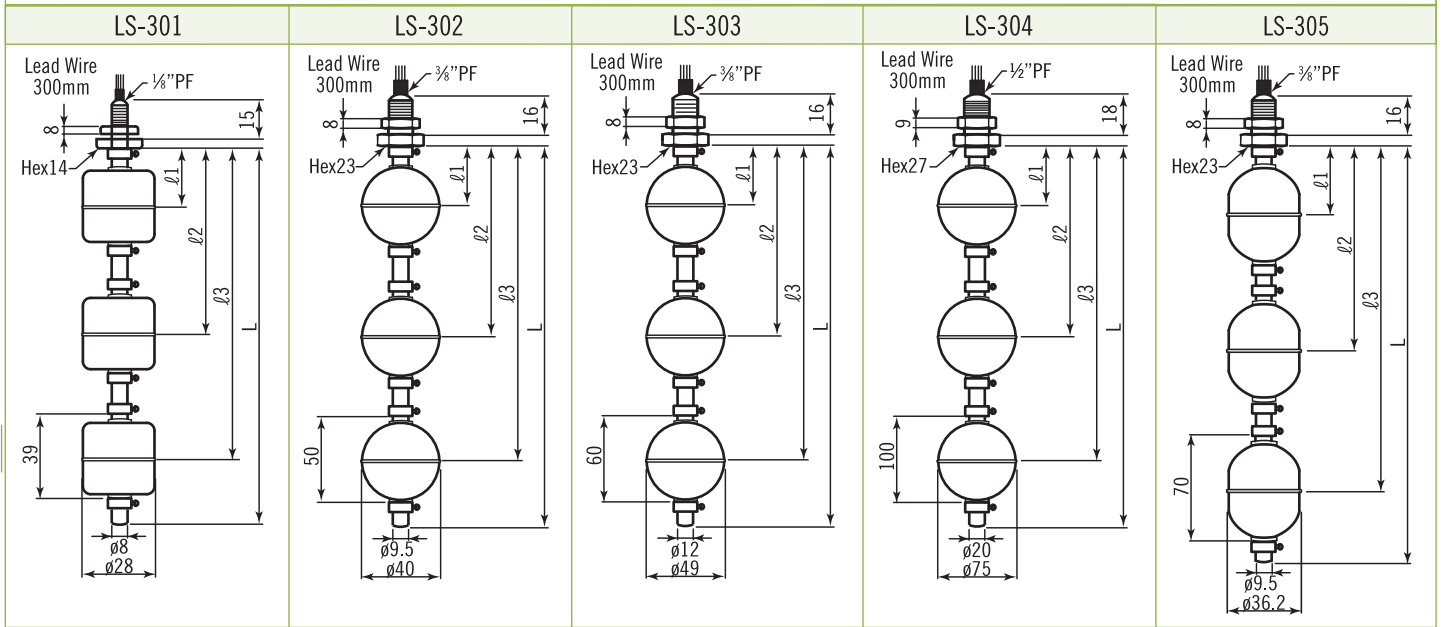
| LS-201P (P.P) | LS-202P (P.P) | LS-203P (PVDF) | LS-204P (P.V.C) |
|---|--|--|--|
| <p>Lead Wire 300mm 3/8" PF Hex36 20 8 10 1 L 38 8 26</p> | <p>Lead Wire 300mm 3/8" PF Hex36 20 8 10 1 L 100 21 50</p> | <p>Lead Wire 300mm 3/8" PF Hex36 20 8 10 1 L 100 20 50</p> | <p>Lead Wire 300mm 1/2" PF Hex36 20 8 10 1 L 100 18 50</p> |
| <p>Lead Wire 300mm 1/2" PF Hex36 20 8 10 1 L 53 12 38</p> | <p>Lead Wire 300mm 1/2" PF Hex36 20 8 10 1 L 53 12 38</p> | | |

Ordering Information

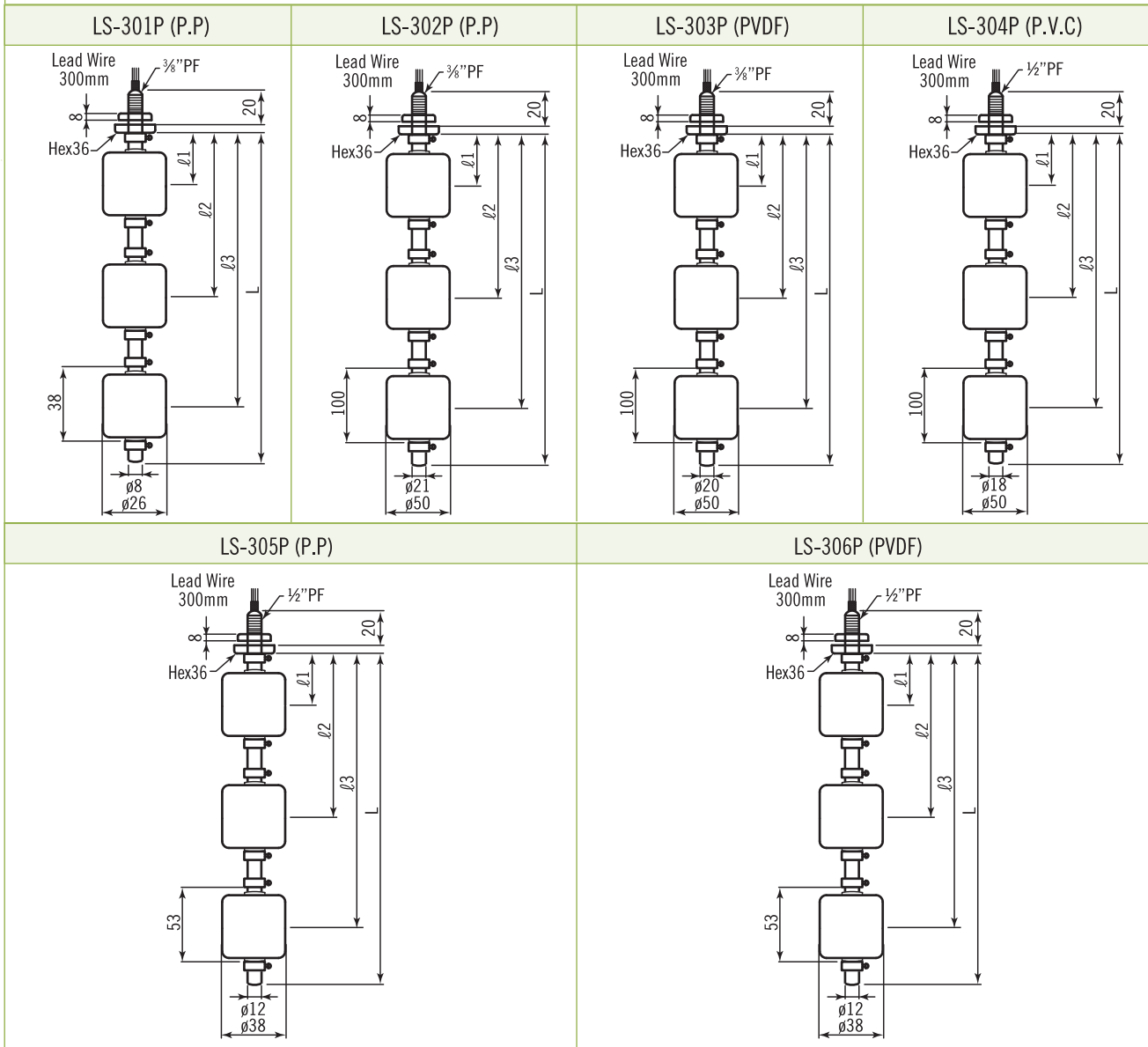
| LS | Code | Model | | | | | | | | | | |
|----|------|---------------|---|---|---|---|---|------|------|------|------|-------------------------------|
| ↓ | | – Metal Float | | | | | – Non-Metal Float | | | | | |
| | | 201 | 202 | 203 | 204 | 205 | 201P | 202P | 203P | 204P | 205P | 206P |
| | | Code | Material of Wetted Parts | | | | | | | | | |
| | | | (1) SS304 (2) SS316 (3) P.V.C (4) P.P (5) PVDF (6) option | | | | | | | | | |
| | | | Code | Contact Form | | | | | | | | |
| | | | | (1) SPST (230V AC/DC) (2) SPDT (250V AC/DC) (3) SPDT (150V AC/DC) | | | | | | | | |
| | | | | Code | Wiring Code Numbers | | | | | | | |
| | | | | | Please refer to <i>Wiring Code Numbers</i> 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) | | | | | | |
| | | | | | Code | Total Insertion Length | | | | | | |
| | | | | | | L= _____ mm | | | | | | |
| | | | | | | 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 | | | | | |
| LS | | | | | | | | | | | | Complete Ordering Code |

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 |
| | | Code | Material of Wetted Parts | | | | | | | | | |
| | | | (1) SS304 (2) SS316 (3) P.V.C (4) P.P (5) PVDF (6) option | | | | | | | | | |
| | | Code | Contact Form | | | | | | | | | |
| | | | (1) SPST (230V AC/DC) (2) SPDT (250V AC/DC) (3) SPDT (150V AC/DC) | | | | | | | | | |
| | | Code | Wiring Code Numbers | | | | | | | | | |
| | | | Please refer to <i>Wiring Code Numbers</i> 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) | | | | | | | | | |
| | | Code | Total Insertion Length | | | | | | | | | |
| | | | L= _____ mm | | | | | | | | | |
| | | Code | Setting Point & Switch Acting Functions | | | | | | | | | |
| | | | 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

Ordering Information

| LS | Code | Model | | | | | | | | | | |
|----|------|---------------|--|-----|-----|-----|-------------------|------|------|------|------|-------------------------------|
| | | – Metal Float | | | | | – Non-Metal Float | | | | | |
| | | 401 | 402 | 403 | 404 | 405 | 401P | 402P | 403P | 404P | 405P | 406P |
| | | Code | Material of Wetted Parts | | | | | | | | | |
| | | | (1) SS304 (2) SS316 (3) P.V.C (4) P.P (5) PVDF (6) option | | | | | | | | | |
| | | Code | Contact Form | | | | | | | | | |
| | | | (1) SPST (230V AC/DC) (2) SPDT (250V AC/DC) (3) SPDT (150V AC/DC) | | | | | | | | | |
| | | Code | Wiring Code Numbers | | | | | | | | | |
| | | | Please refer to <i>Wiring Code Numbers</i> table. | | | | | | | | | |
| | | Code | Float Size | | | | | | | | | |
| | | | (A) ϕ 28 x 27 (SS316) (B) ϕ 40 x 38 (SS316) (C) ϕ 49 x 49 (SS316) (D) ϕ 75 x 75 (SS316) (E) ϕ 26 x 26 (P.P) (F) ϕ 50 x 75 (P.P) (G) ϕ 50 x 75 (PVDF) (H) ϕ 50 x 70 (P.V.C) (I) ϕ 38 x 38 (P.P) (J) ϕ 38 x 38 (PVDF) (K) ϕ 36.2 x 51.5 (SS316) | | | | | | | | | |
| | | Code | Total Insertion Length | | | | | | | | | |
| | | | L= _____ mm | | | | | | | | | |
| | | Code | Setting Point & Switch Acting Functions | | | | | | | | | |
| | | | Please fill in the requested length and float Rised \uparrow ON or Fall down \downarrow ON l_1 = _____ mm <input type="checkbox"/> ON l_2 = _____ mm <input type="checkbox"/> ON l_3 = _____ mm <input type="checkbox"/> ON l_4 = _____ mm <input type="checkbox"/> ON | | | | | | | | | |
| LS | | | | | | | | | | | | |
| | | | | | | | | | | | | Complete Ordering Code |

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) | |
| | | | |

Ordering Information

| WLS | Code | Model | | | | | | | | | | | | | | | | | | | | | | |
|---------------|--|---|---------------|---|-------------------|--|------|---|------|------|---|--------|--|-----|-----|-----|-----|-----|------|------|------|------|------|------|
| | | <table border="1"> <tr> <th colspan="5">– Metal Float</th> <th colspan="6">– Non-Metal Float</th> </tr> <tr> <td>101</td> <td>102</td> <td>103</td> <td>104</td> <td>105</td> <td>101P</td> <td>102P</td> <td>103P</td> <td>104P</td> <td>105P</td> <td>106P</td> </tr> </table> | – Metal Float | | | | | – Non-Metal Float | | | | | | 101 | 102 | 103 | 104 | 105 | 101P | 102P | 103P | 104P | 105P | 106P |
| – Metal Float | | | | | – Non-Metal Float | | | | | | | | | | | | | | | | | | | |
| 101 | 102 | 103 | 104 | 105 | 101P | 102P | 103P | 104P | 105P | 106P | | | | | | | | | | | | | | |
| | | <table border="1"> <tr> <th>Code</th> <th>Process Connection Size</th> </tr> <tr> <td>A</td> <td>1½" (for float ø28, ø40 only)</td> </tr> <tr> <td>B</td> <td>2" (float ø75 not available)</td> </tr> <tr> <td>C</td> <td>3"</td> </tr> <tr> <td>D</td> <td>option</td> </tr> </table> | Code | Process Connection Size | A | 1½" (for float ø28, ø40 only) | B | 2" (float ø75 not available) | C | 3" | D | option | | | | | | | | | | | | |
| Code | Process Connection Size | | | | | | | | | | | | | | | | | | | | | | | |
| A | 1½" (for float ø28, ø40 only) | | | | | | | | | | | | | | | | | | | | | | | |
| B | 2" (float ø75 not available) | | | | | | | | | | | | | | | | | | | | | | | |
| C | 3" | | | | | | | | | | | | | | | | | | | | | | | |
| D | option | | | | | | | | | | | | | | | | | | | | | | | |
| | | <table border="1"> <tr> <th>Code</th> <th>Process Connection Rating</th> </tr> <tr> <td></td> <td>Thread type (A) PT (B) NPT (C) BSP (D) option</td> </tr> <tr> <td></td> <td>Flange type (E) JIS 5K (F) JIS 10K (G) ANSI 150# (H) option</td> </tr> </table> | Code | Process Connection Rating | | Thread type (A) PT (B) NPT (C) BSP (D) option | | Flange type (E) JIS 5K (F) JIS 10K (G) ANSI 150# (H) option | | | | | | | | | | | | | | | | |
| Code | Process Connection Rating | | | | | | | | | | | | | | | | | | | | | | | |
| | Thread type (A) PT (B) NPT (C) BSP (D) option | | | | | | | | | | | | | | | | | | | | | | | |
| | Flange type (E) JIS 5K (F) JIS 10K (G) ANSI 150# (H) option | | | | | | | | | | | | | | | | | | | | | | | |
| | | <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 | | | | | | | | | | | | | | | | | | |
| Code | Material of Wetted Parts | | | | | | | | | | | | | | | | | | | | | | | |
| | (1) SS304 (2) SS316 (3) P.V.C (4) P.P (5) PVDF (6) option | | | | | | | | | | | | | | | | | | | | | | | |
| | | <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) | | | | | | | | | | | | | | | | | | |
| Code | Contact Form | | | | | | | | | | | | | | | | | | | | | | | |
| | (1) SPST (230V AC/DC) (2) SPDT (250V AC/DC) (3) SPDT (150V AC/DC) | | | | | | | | | | | | | | | | | | | | | | | |
| | | <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. | | | | | | | | | | | | | | | | | | |
| Code | Wiring Code Numbers | | | | | | | | | | | | | | | | | | | | | | | |
| | Please refer to <i>Wiring Code Numbers</i> table. | | | | | | | | | | | | | | | | | | | | | | | |
| | | <table border="1"> <tr> <th>Code</th> <th>Head Type</th> </tr> <tr> <td></td> <td>(1) HN type (2) HP type (3) MS-1 type (0) Option</td> </tr> </table> | Code | Head Type | | (1) HN type (2) HP type (3) MS-1 type (0) Option | | | | | | | | | | | | | | | | | | |
| Code | Head Type | | | | | | | | | | | | | | | | | | | | | | | |
| | (1) HN type (2) HP type (3) MS-1 type (0) Option | | | | | | | | | | | | | | | | | | | | | | | |
| | | <table border="1"> <tr> <th>Code</th> <th>Float Size</th> </tr> <tr> <td></td> <td>(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)</td> </tr> </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) (I) ø38 x 38 (P.P) (J) ø38 x 38 (PVDF) (K) ø36.2 x 51.5 (SS316) | | | | | | | | | | | | | | | | | | |
| 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) (I) ø38 x 38 (P.P) (J) ø38 x 38 (PVDF) (K) ø36.2 x 51.5 (SS316) | | | | | | | | | | | | | | | | | | | | | | | |
| | | <table border="1"> <tr> <th>Code</th> <th>Conduit Connection</th> </tr> <tr> <td></td> <td>(A) ½"PF(F) (B) ½"NPT(F) (C) ¾"PF(F) (D) ¾"NPT(F) (0) Option</td> </tr> </table> | Code | Conduit Connection | | (A) ½"PF(F) (B) ½"NPT(F) (C) ¾"PF(F) (D) ¾"NPT(F) (0) Option | | | | | | | | | | | | | | | | | | |
| Code | Conduit Connection | | | | | | | | | | | | | | | | | | | | | | | |
| | (A) ½"PF(F) (B) ½"NPT(F) (C) ¾"PF(F) (D) ¾"NPT(F) (0) Option | | | | | | | | | | | | | | | | | | | | | | | |
| | | <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 | | | | | | | | | | | | | | | | | | |
| Code | Total Insertion Length | | | | | | | | | | | | | | | | | | | | | | | |
| | L= _____mm | | | | | | | | | | | | | | | | | | | | | | | |
| | | <table border="1"> <tr> <th>Code</th> <th>Setting Point & Switch Acting Functions</th> </tr> <tr> <td></td> <td>Please fill in the requested length and float Rised ↑ON or Fall down ↓ON ℓ1= _____mm <input type="checkbox"/> ON</td> </tr> </table> | Code | Setting Point & Switch Acting Functions | | Please fill in the requested length and float Rised ↑ON or Fall down ↓ON ℓ1= _____mm <input type="checkbox"/> ON | | | | | | | | | | | | | | | | | | |
| Code | Setting Point & Switch Acting Functions | | | | | | | | | | | | | | | | | | | | | | | |
| | Please fill in the requested length and float Rised ↑ON or Fall down ↓ON ℓ1= _____mm <input type="checkbox"/> ON | | | | | | | | | | | | | | | | | | | | | | | |
| 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

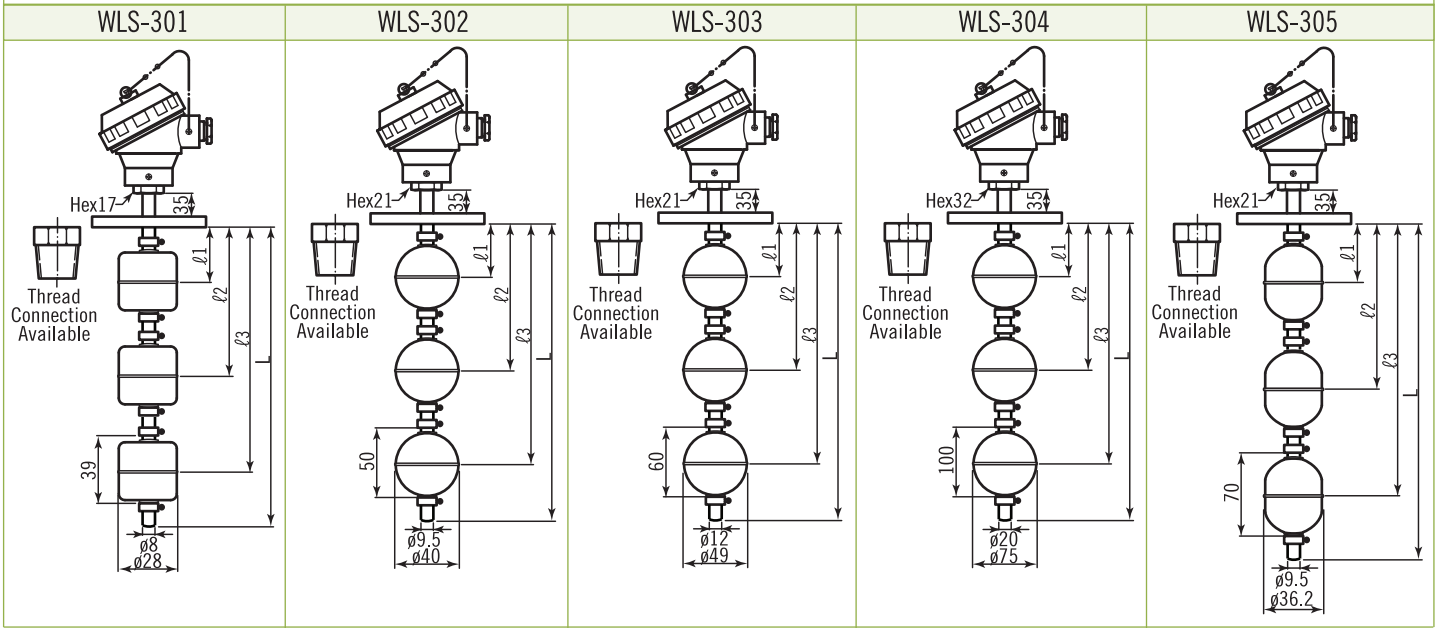
| WLS-201P (P.P) | WLS-202P (P.P) | WLS-203P (PVDF) | WLS-204P (P.V.C) |
|----------------|----------------|-----------------|------------------|
| | | | |
| WLS-205P (P.P) | | WLS-206P (PVDF) | |
| | | | |

Ordering Information

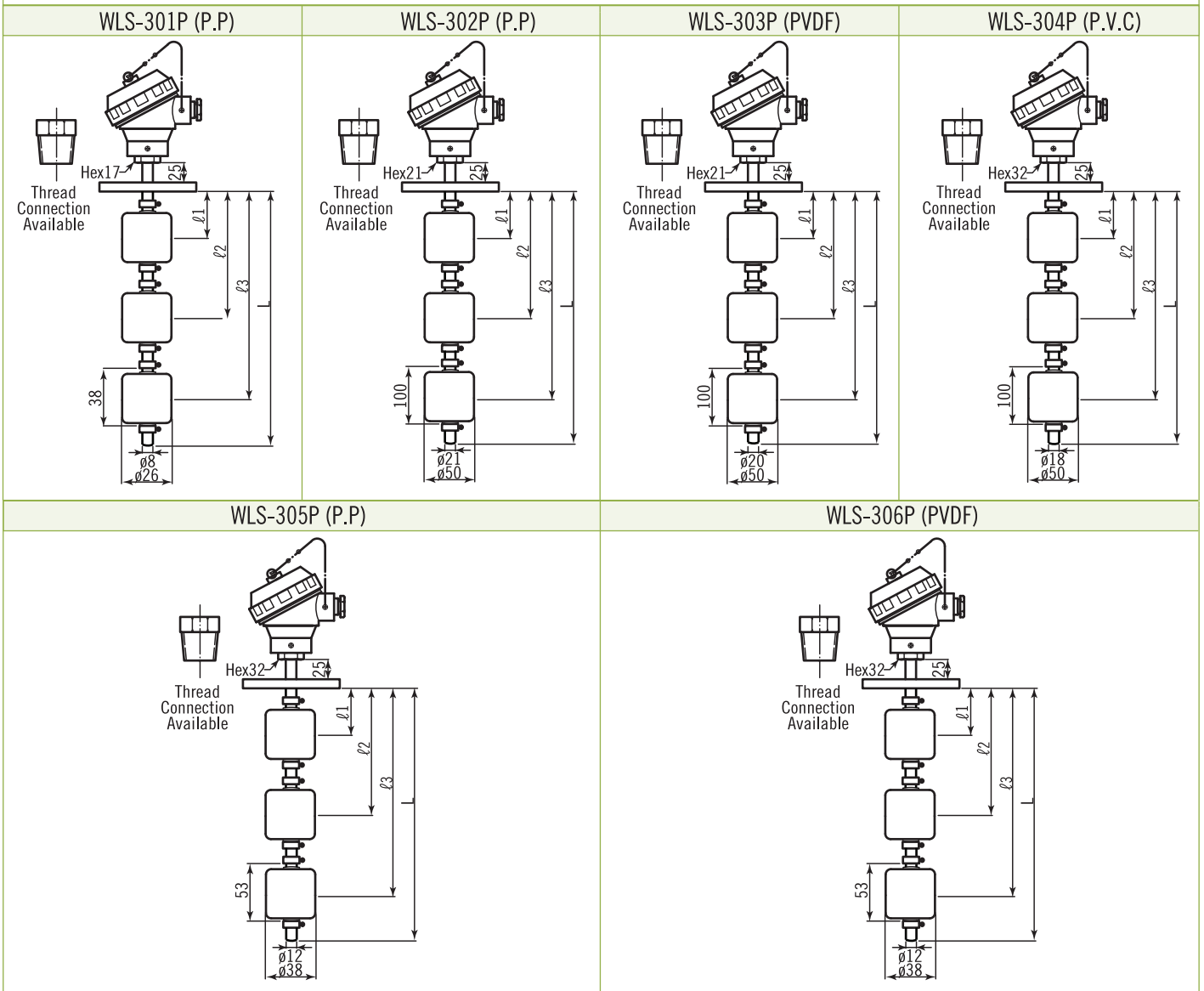
| WLS | Code | Model | | | | | | | | | | | | | | | | | | | | | | |
|---------------|---|--|---------------|---|-------------------|---|----------|---|----------|------|----------|--------|--|-----|-----|-----|-----|-----|------|------|------|------|------|------|
| | | <table border="1"> <tr> <th colspan="5">– Metal Float</th> <th colspan="6">– Non-Metal Float</th> </tr> <tr> <td>201</td> <td>202</td> <td>203</td> <td>204</td> <td>205</td> <td>201P</td> <td>202P</td> <td>203P</td> <td>204P</td> <td>205P</td> <td>206P</td> </tr> </table> | – Metal Float | | | | | – Non-Metal Float | | | | | | 201 | 202 | 203 | 204 | 205 | 201P | 202P | 203P | 204P | 205P | 206P |
| – Metal Float | | | | | – Non-Metal Float | | | | | | | | | | | | | | | | | | | |
| 201 | 202 | 203 | 204 | 205 | 201P | 202P | 203P | 204P | 205P | 206P | | | | | | | | | | | | | | |
| | | <table border="1"> <tr> <th>Code</th> <th>Process Connection Size</th> </tr> <tr> <td>A</td> <td>1½" (for float ø28, ø40 only)</td> </tr> <tr> <td>B</td> <td>2" (float ø75 not available)</td> </tr> <tr> <td>C</td> <td>3"</td> </tr> <tr> <td>D</td> <td>option</td> </tr> </table> | Code | Process Connection Size | A | 1½" (for float ø28, ø40 only) | B | 2" (float ø75 not available) | C | 3" | D | option | | | | | | | | | | | | |
| Code | Process Connection Size | | | | | | | | | | | | | | | | | | | | | | | |
| A | 1½" (for float ø28, ø40 only) | | | | | | | | | | | | | | | | | | | | | | | |
| B | 2" (float ø75 not available) | | | | | | | | | | | | | | | | | | | | | | | |
| C | 3" | | | | | | | | | | | | | | | | | | | | | | | |
| D | option | | | | | | | | | | | | | | | | | | | | | | | |
| | | <table border="1"> <tr> <th>Code</th> <th>Process Connection Rating</th> </tr> <tr> <td></td> <td>Thread type (A) PT (B) NPT (C) BSP (D) option</td> </tr> <tr> <td></td> <td>Flange type (E) JIS 5K (F) JIS 10K (G) ANSI 150# (H) option</td> </tr> </table> | Code | Process Connection Rating | | Thread type (A) PT (B) NPT (C) BSP (D) option | | Flange type (E) JIS 5K (F) JIS 10K (G) ANSI 150# (H) option | | | | | | | | | | | | | | | | |
| Code | Process Connection Rating | | | | | | | | | | | | | | | | | | | | | | | |
| | Thread type (A) PT (B) NPT (C) BSP (D) option | | | | | | | | | | | | | | | | | | | | | | | |
| | Flange type (E) JIS 5K (F) JIS 10K (G) ANSI 150# (H) option | | | | | | | | | | | | | | | | | | | | | | | |
| | | <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 | | | | | | | | | | | | | | | | | | |
| Code | Material of Wetted Parts | | | | | | | | | | | | | | | | | | | | | | | |
| | (1) SS304 (2) SS316 (3) P.V.C (4) P.P (5) PVDF (6) option | | | | | | | | | | | | | | | | | | | | | | | |
| | | <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) | | | | | | | | | | | | | | | | | | |
| Code | Contact Form | | | | | | | | | | | | | | | | | | | | | | | |
| | (1) SPST (230V AC/DC) (2) SPDT (250V AC/DC) (3) SPDT (150V AC/DC) | | | | | | | | | | | | | | | | | | | | | | | |
| | | <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. | | | | | | | | | | | | | | | | | | |
| Code | Wiring Code Numbers | | | | | | | | | | | | | | | | | | | | | | | |
| | Please refer to <i>Wiring Code Numbers</i> table. | | | | | | | | | | | | | | | | | | | | | | | |
| | | <table border="1"> <tr> <th>Code</th> <th>Head Type</th> </tr> <tr> <td></td> <td>(1) HN type (2) HP type (3) MS-1 type (0) Option</td> </tr> </table> | Code | Head Type | | (1) HN type (2) HP type (3) MS-1 type (0) Option | | | | | | | | | | | | | | | | | | |
| Code | Head Type | | | | | | | | | | | | | | | | | | | | | | | |
| | (1) HN type (2) HP type (3) MS-1 type (0) Option | | | | | | | | | | | | | | | | | | | | | | | |
| | | <table border="1"> <tr> <th>Code</th> <th>Float Size</th> </tr> <tr> <td></td> <td> (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) </td> </tr> </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) (I) ø38 x 38 (P.P) (J) ø38 x 38 (PVDF) (K) ø36.2 x 51.5 (SS316) | | | | | | | | | | | | | | | | | | |
| 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) (I) ø38 x 38 (P.P) (J) ø38 x 38 (PVDF) (K) ø36.2 x 51.5 (SS316) | | | | | | | | | | | | | | | | | | | | | | | |
| | | <table border="1"> <tr> <th>Code</th> <th>Conduit Connection</th> </tr> <tr> <td></td> <td>(A) ½"PF(F) (B) ½"NPT(F) (C) ¾"PF(F) (D) ¾"NPT(F) (0) Option</td> </tr> </table> | Code | Conduit Connection | | (A) ½"PF(F) (B) ½"NPT(F) (C) ¾"PF(F) (D) ¾"NPT(F) (0) Option | | | | | | | | | | | | | | | | | | |
| Code | Conduit Connection | | | | | | | | | | | | | | | | | | | | | | | |
| | (A) ½"PF(F) (B) ½"NPT(F) (C) ¾"PF(F) (D) ¾"NPT(F) (0) Option | | | | | | | | | | | | | | | | | | | | | | | |
| | | <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 | | | | | | | | | | | | | | | | | | |
| Code | Total Insertion Length | | | | | | | | | | | | | | | | | | | | | | | |
| | L= _____ mm | | | | | | | | | | | | | | | | | | | | | | | |
| | | <table border="1"> <tr> <th>Code</th> <th>Setting Point & Switch Acting Functions</th> </tr> <tr> <td></td> <td>Please fill in the requested length and float Rised ↑ON or Fall down ↓ON ø1= _____ mm <input type="checkbox"/> ON ø2= _____ mm <input type="checkbox"/> ON </td> </tr> </table> | Code | Setting Point & Switch Acting Functions | | Please fill in the requested length and float Rised ↑ON or Fall down ↓ON ø1= _____ mm <input type="checkbox"/> ON ø2= _____ mm <input type="checkbox"/> ON | | | | | | | | | | | | | | | | | | |
| Code | Setting Point & Switch Acting Functions | | | | | | | | | | | | | | | | | | | | | | | |
| | Please fill in the requested length and float Rised ↑ON or Fall down ↓ON ø1= _____ mm <input type="checkbox"/> ON ø2= _____ mm <input type="checkbox"/> ON | | | | | | | | | | | | | | | | | | | | | | | |
| WLS | | Complete Ordering Code | | | | | | | | | | | | | | | | | | | | | | |

WLS-300 Series Three Float Type

Metal Float



Non-Metal Float

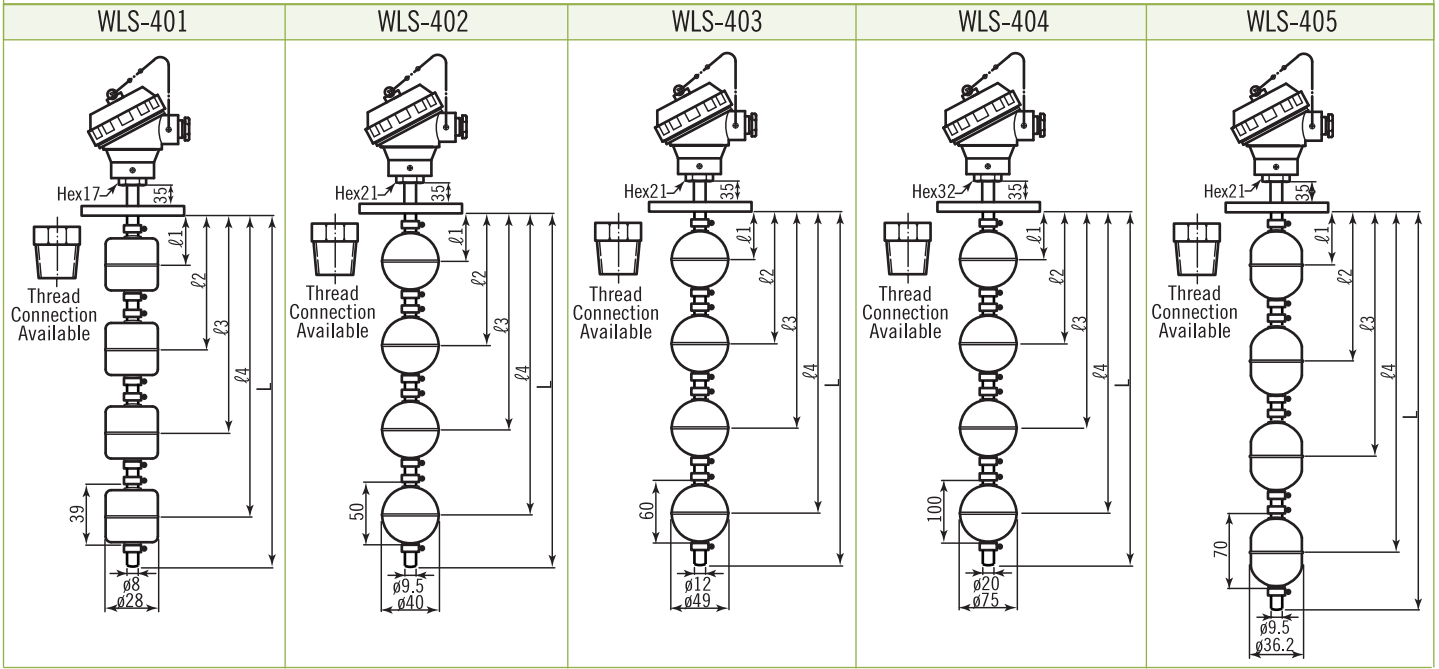


Ordering Information

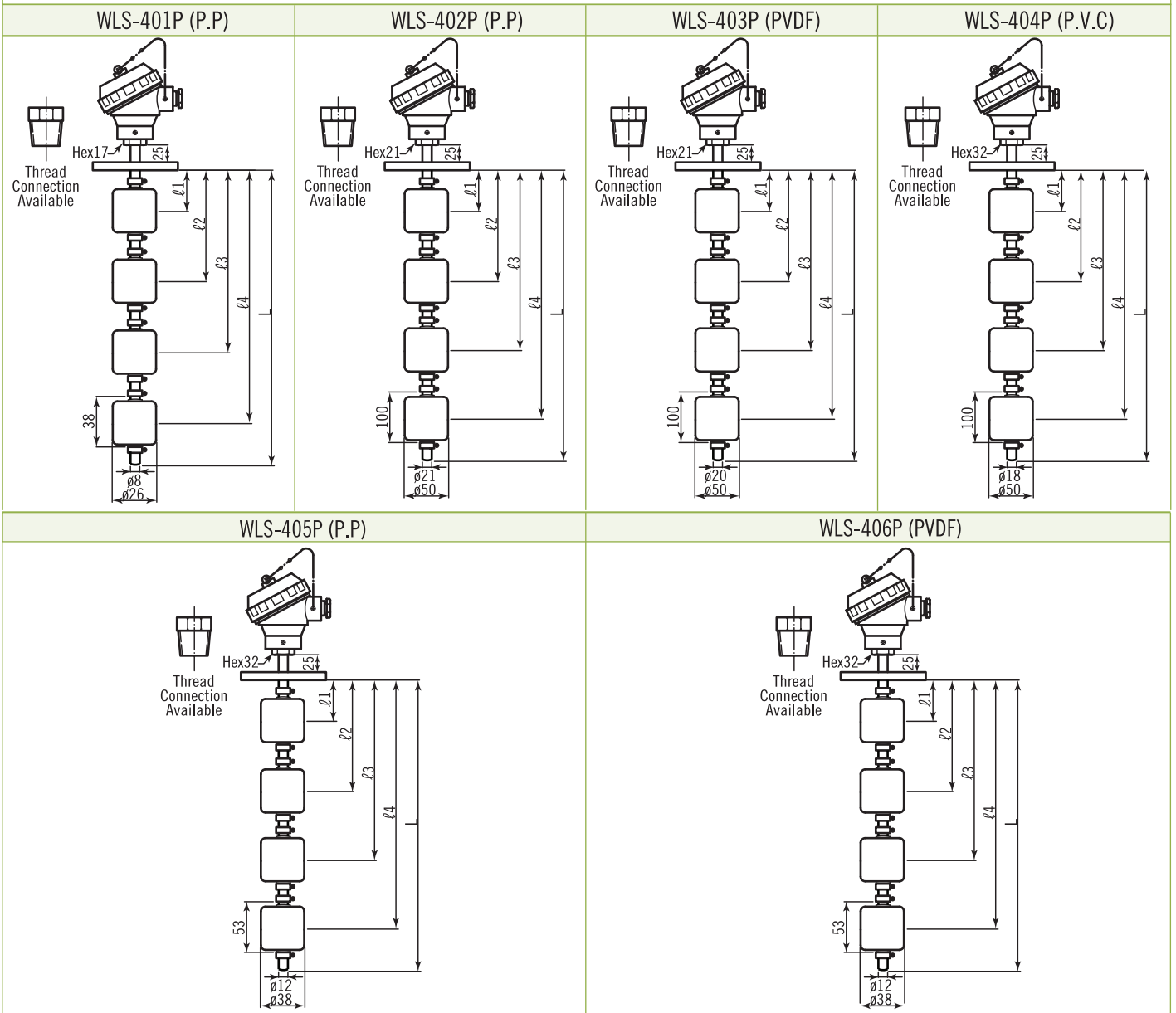
| WLS | Code | Model | Code | Wiring Code Numbers | |
|-----|-------------------|---------------------------------------|--|--|--------------------|
| ↓ | – Metal Float | | 301 302 303 304 305 | Please refer to <i>Wiring Code Numbers</i> table. | |
| | – Non-Metal Float | | 301P 302P 303P 304P 305P 306P | | |
| | ↓ | Code | Process Connection Size | Code | Head Type |
| | ↓ | 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) | Code | Float Size |
| | ↓ | C | 3" D option | (A) ø28 x 27 (SS316) (B) ø40 x 38 (SS316) (C) ø49 x 49 (SS316) | |
| | ↓ | Code | Process Connection Rating | (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 | (J) ø38 x 38 (PVDF) (K) ø36.2 x 51.5 (SS316) | |
| | ↓ | Code | Material of Wetted Parts | Code | Conduit Connection |
| ↓ | | (1) SS304 (2) SS316 (3) P.V.C (4) P.P | (A) ½"PF(F) (B) ½"NPT(F) (C) ¾"PF(F) (D) ¾"NPT(F) | | |
| ↓ | | (5) PVDF (6) option | Code | Total Insertion Length | |
| ↓ | Code | Contact Form | L= _____ mm | | |
| ↓ | 1 | SPST (230V AC/DC) | Code | Setting Point & Switch Acting Functions | |
| ↓ | 2 | SPDT (250V AC/DC) | Please fill in the requested length and float Rised ↑ON or Fall down ↓ON | | |
| ↓ | 3 | SPDT (150V AC/DC) | ℓ1= _____ mm <input type="checkbox"/> ON | | |
| | | | 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



Ordering Information

| WLS | Code | Model | Code | Wiring Code Numbers | | | | | | | | | | | | | | | | |
|-------------------|--|--|---------------|--|------|--|-----|--|------|---|-------------------|--|------|---|------|-------------|------|---|--|---|
| | | <table border="1"> <tr> <td>– Metal Float</td> <td>401</td> <td>402</td> <td>403</td> <td>404</td> <td>405</td> <td></td> <td></td> </tr> <tr> <td>– Non-Metal Float</td> <td>401P</td> <td>402P</td> <td>403P</td> <td>404P</td> <td>405P</td> <td>406P</td> <td></td> </tr> </table> | – Metal Float | 401 | 402 | 403 | 404 | 405 | | | – Non-Metal Float | 401P | 402P | 403P | 404P | 405P | 406P | | | Please refer to <i>Wiring Code Numbers</i> table. |
| – Metal Float | 401 | 402 | 403 | 404 | 405 | | | | | | | | | | | | | | | |
| – Non-Metal Float | 401P | 402P | 403P | 404P | 405P | 406P | | | | | | | | | | | | | | |
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| A | 1½" (for float ø28, ø40 only) | | | | | | | | | | | | | | | | | | | |
| B | 2" (float ø75 not available) | | | | | | | | | | | | | | | | | | | |
| C | 3" | | | | | | | | | | | | | | | | | | | |
| D | option | | | | | | | | | | | | | | | | | | | |
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| | Thread type (A) PT (B) NPT (C) BSP (D) option | | | | | | | | | | | | | | | | | | | |
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| Code | Material of Wetted Parts | | | | | | | | | | | | | | | | | | | |
| | (1) SS304 (2) SS316 (3) P.V.C (4) P.P (5) PVDF (6) option | | | | | | | | | | | | | | | | | | | |
| Code | Conduit Connection | | | | | | | | | | | | | | | | | | | |
| | (A) ½"PF(F) (B) ½"NPT(F) (C) ¾"PF(F) (D) ¾"NPT(F) (0) Option | | | | | | | | | | | | | | | | | | | |
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| Code | Contact Form | | | | | | | | | | | | | | | | | | | |
| 1 | SPST (230V AC/DC) | | | | | | | | | | | | | | | | | | | |
| 2 | SPDT (250V AC/DC) | | | | | | | | | | | | | | | | | | | |
| 3 | SPDT (150V AC/DC) | | | | | | | | | | | | | | | | | | | |
| Code | Total Insertion Length | | | | | | | | | | | | | | | | | | | |
| | L= _____ mm | | | | | | | | | | | | | | | | | | | |
| | | | | <table border="1"> <tr> <th>Code</th> <th>Setting Point & Switch Acting Functions</th> </tr> <tr> <td></td> <td>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</td> </tr> </table> | Code | Setting Point & Switch Acting Functions | | 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 | | | | | | | | | | | | |
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| WLS | | | | Complete Ordering Code | | | | | | | | | | | | | | | | |

Ordering Information

| ELS | Code | Model | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------|--|---|---------------|--|-------------------|--|----------------------------------|---|-----------|---|---------------------------------|-------------|-------------------------------|---------------------------------|-------------|---------------------------------|----------|-----|---------|------|-----------|------|------|------|---------|---|---------|---|--------|---|-----|---|-----------|---|-----------|--|--|---|--------|---|---------|---|-----------|--|--|
| | | <table border="1"> <tr> <th colspan="5">- Metal Float</th> <th colspan="6">- Non-Metal Float</th> </tr> <tr> <td>101</td> <td>102</td> <td>103</td> <td>104</td> <td>105</td> <td>101P</td> <td>102P</td> <td>103P</td> <td>104P</td> <td>105P</td> <td>106P</td> </tr> </table> | - Metal Float | | | | | - Non-Metal Float | | | | | | 101 | 102 | 103 | 104 | 105 | 101P | 102P | 103P | 104P | 105P | 106P | | | | | | | | | | | | | | | | | | | | | |
| - Metal Float | | | | | - Non-Metal Float | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 101 | 102 | 103 | 104 | 105 | 101P | 102P | 103P | 104P | 105P | 106P | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Code | Process Connection Size | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A | 1½" (float size ≤ ø40 available) | E 2½" (float size ≤ ø50 available) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B | 2" (float size ≤ ø50 available) | F 4" (all float size available) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C | 3" (all float size available) | G 5" (all float size available) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| D | 1" (float size ≤ ø28 available) | O Option | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | <table border="1"> <tr> <th>Code</th> <th colspan="8">Process Connection Rating</th> </tr> <tr> <td rowspan="4">Thread Type</td> <td>A</td> <td>PT</td> <td rowspan="4">Flange Type</td> <td>E</td> <td>JIS 5K</td> <td>I</td> <td>JIS 30K</td> <td>M</td> <td>ANSI 900#</td> </tr> <tr> <td>B</td> <td>NPT</td> <td>F</td> <td>JIS 10K</td> <td>J</td> <td>JIS 40K</td> <td>O</td> <td>Option</td> </tr> <tr> <td>C</td> <td>BSP</td> <td>G</td> <td>ANSI 150#</td> <td>K</td> <td>ANSI 300#</td> <td></td> <td></td> </tr> <tr> <td>D</td> <td>Option</td> <td>H</td> <td>JIS 20K</td> <td>L</td> <td>ANSI 600#</td> <td></td> <td></td> </tr> </table> | Code | Process Connection Rating | | | | | | | | Thread Type | A | PT | Flange Type | E | JIS 5K | I | JIS 30K | M | ANSI 900# | B | NPT | F | JIS 10K | J | JIS 40K | O | Option | C | BSP | G | ANSI 150# | K | ANSI 300# | | | D | Option | H | JIS 20K | L | ANSI 600# | | |
| Code | Process Connection Rating | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thread Type | A | PT | Flange Type | E | JIS 5K | I | JIS 30K | M | ANSI 900# | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | B | NPT | | F | JIS 10K | J | JIS 40K | O | Option | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | C | BSP | | G | ANSI 150# | K | ANSI 300# | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | D | Option | | H | JIS 20K | L | ANSI 600# | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Code | Contact Form | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Code | Wiring Code Numbers | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | | <table border="1"> <tr> <th>Code</th> <th>Float Size / Material</th> </tr> <tr> <td></td> <td>(A) ø28x27 (SS316) (B) ø40x38 (SS316) (C) ø49x49 (SS316) (D) ø75x75 (SS316) (E) ø26x26 (P.P) (F) ø50x75 (P.P) (G) ø50x75 (PVDF) (H) ø50x70 (P.V.C) (I) ø38x38 (P.P) (J) ø38x38 (PVDF) (K) ø36.2x51.5 (SS316)</td> </tr> </table> | Code | Float Size / Material | | (A) ø28x27 (SS316) (B) ø40x38 (SS316) (C) ø49x49 (SS316) (D) ø75x75 (SS316) (E) ø26x26 (P.P) (F) ø50x75 (P.P) (G) ø50x75 (PVDF) (H) ø50x70 (P.V.C) (I) ø38x38 (P.P) (J) ø38x38 (PVDF) (K) ø36.2x51.5 (SS316) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | L=_____mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | | <table border="1"> <tr> <th>Code</th> <th>Explosion Proof Type / Head Housing Type</th> </tr> <tr> <td>A</td> <td>Certificate on Housing Only / S2: EEx d IIC-T6, II 2 GD</td> </tr> <tr> <td>B</td> <td>Taiwan Explosion Proof Certification / ES & EA: Ex d IIB + H2 T6 Gb</td> </tr> <tr> <td>S</td> <td>Certificate on Housing Only / XDS & XDA: II 2G D Ex db IIC Gb Ex tb IIIC Db</td> </tr> </table> | Code | Explosion Proof Type / Head Housing Type | A | Certificate on Housing Only / S2: EEx d IIC-T6, II 2 GD | B | Taiwan Explosion Proof Certification / ES & EA: Ex d IIB + H2 T6 Gb | S | Certificate on Housing Only / XDS & XDA: II 2G D Ex db IIC Gb Ex tb IIIC Db | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Code | Explosion Proof Type / Head Housing Type | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| B | Taiwan Explosion Proof Certification / ES & EA: Ex d IIB + H2 T6 Gb | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S | Certificate on Housing Only / XDS & XDA: II 2G D Ex db IIC Gb Ex tb IIIC Db | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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

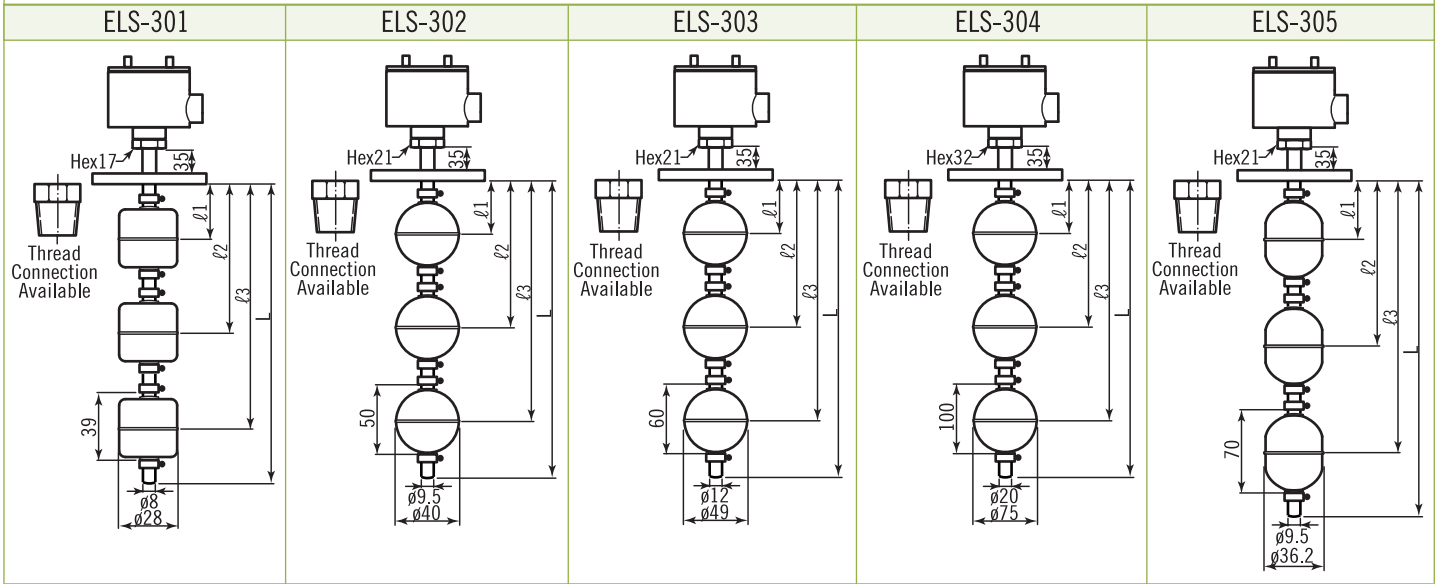
| ELS-201P (P.P) | ELS-202P (P.P) | ELS-203P (PVDF) | ELS-204P (P.V.C) |
|----------------|-----------------|-----------------|------------------|
| | | | |
| ELS-205P (P.P) | ELS-206P (PVDF) | | |
| | | | |

Ordering Information

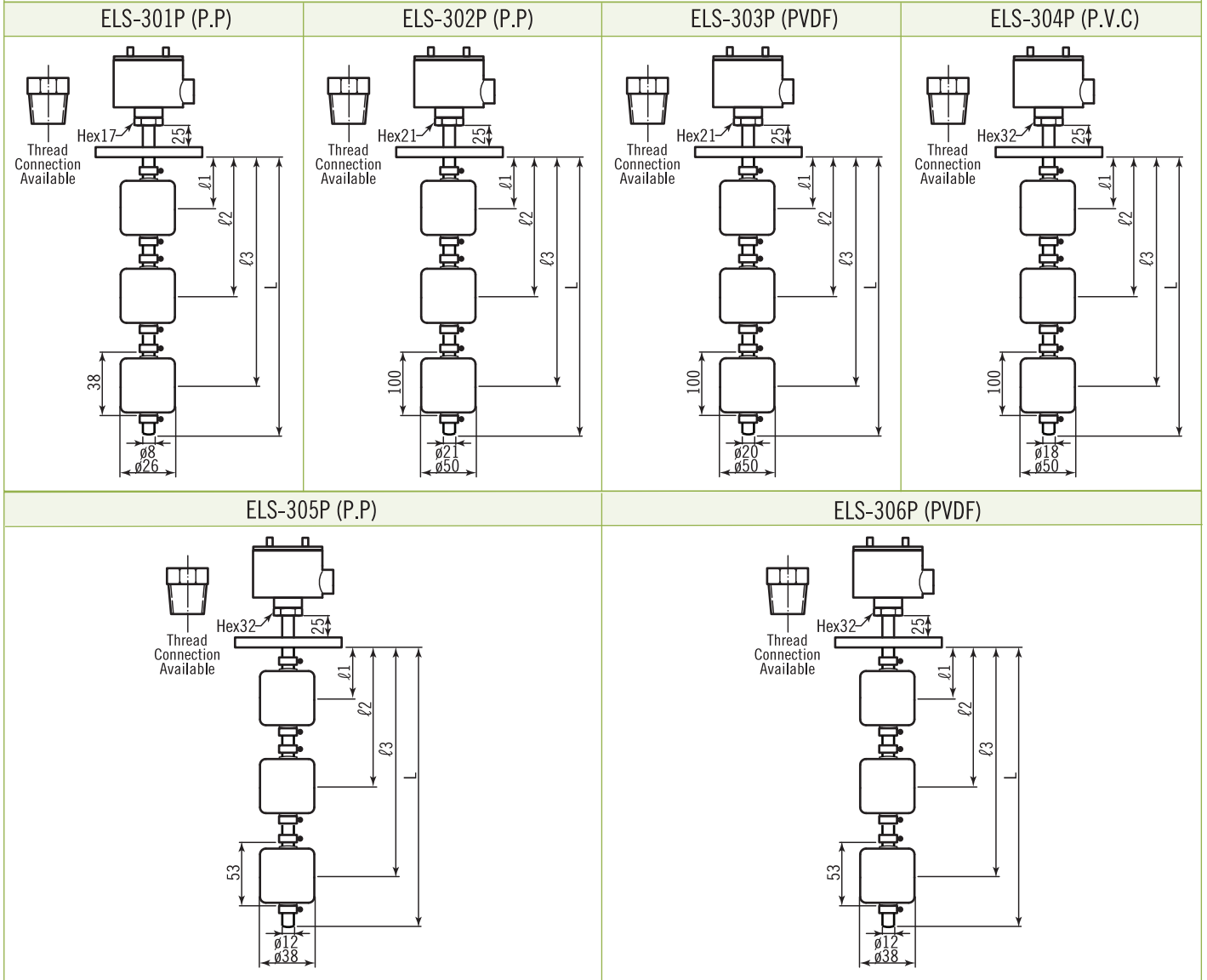
| ELS | Code | Model | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------|--|---|---------------|--|-------------------|--|----------------------------------|---|------|---|---------------------------------|-----|-------------------------------|---------------------------------|-----|---------------------------------|----------|-----|--------|------|---------|------|-----------|------|---|---------|---|---------|---|--------|--|---|-----------|---|-----------|--|--|--|---|---------|---|-----------|--|--|
| | | <table border="1"> <tr> <th colspan="5">- Metal Float</th> <th colspan="6">- Non-Metal Float</th> </tr> <tr> <td>201</td> <td>202</td> <td>203</td> <td>204</td> <td>205</td> <td>201P</td> <td>202P</td> <td>203P</td> <td>204P</td> <td>205P</td> <td>206P</td> </tr> </table> | - Metal Float | | | | | - Non-Metal Float | | | | | | 201 | 202 | 203 | 204 | 205 | 201P | 202P | 203P | 204P | 205P | 206P | | | | | | | | | | | | | | | | | | | | |
| - Metal Float | | | | | - Non-Metal Float | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 201 | 202 | 203 | 204 | 205 | 201P | 202P | 203P | 204P | 205P | 206P | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Code | Process Connection Size | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A | 1½" (float size ≤ ø40 available) | E 2½" (float size ≤ ø50 available) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| B | 2" (float size ≤ ø50 available) | F 4" (all float size available) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C | 3" (all float size available) | G 5" (all float size available) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| D | 1" (float size ≤ ø28 available) | O Option | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Thread Type | A | PT | Flange Type | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | B | NPT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | C | BSP | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | D | Option | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | E | JIS 5K | I | JIS 30K | M | ANSI 900# | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | F | JIS 10K | J | JIS 40K | O | Option | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| ELS | | Complete Ordering Code | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

ELS-300 Series Three Float Type

Metal Float



Non-Metal Float



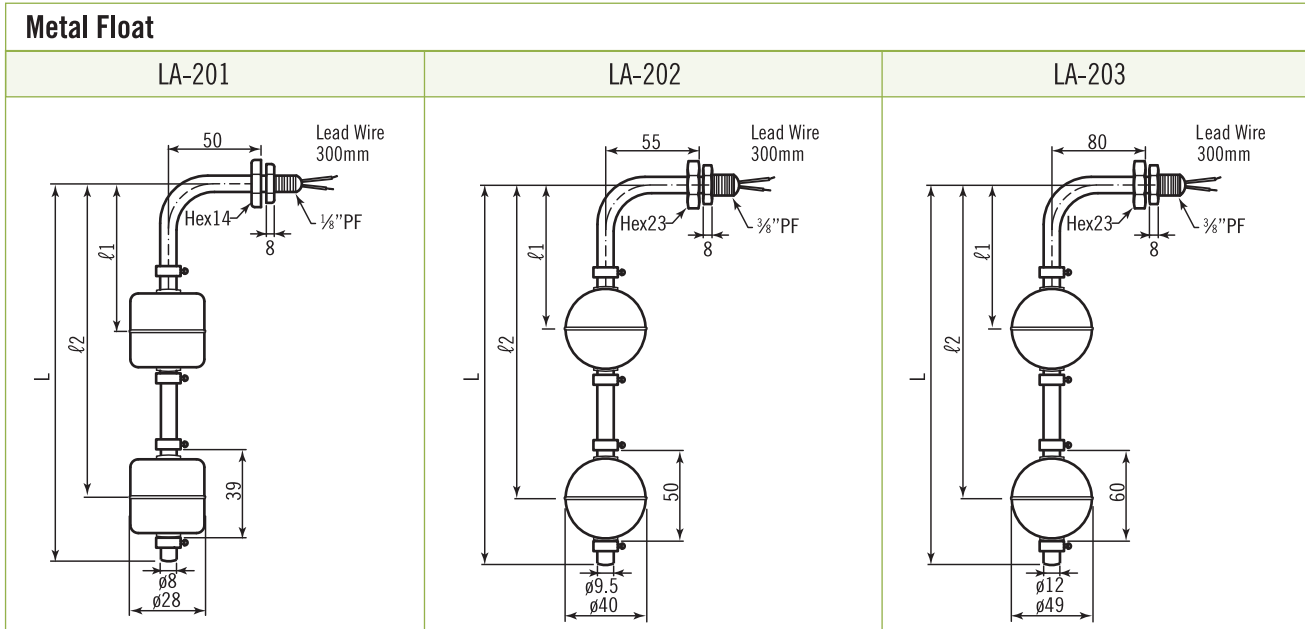
Ordering Information

| ELS | Code | Model | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------|--|---|---------------|--|-------------------|--|----------------------------------|---|------|---|---------------------------------|---|-------------------------------|---------------------------------|---------|---------------------------------|-----------|-----|------|------|---------|------|---------|------|--------|---|-----|---|-----------|---|-----------|--|--|---|--------|---|---------|---|-----------|--|--|
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| - Metal Float | | | | | - Non-Metal Float | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 301 | 302 | 303 | 304 | 305 | 301P | 302P | 303P | 304P | 305P | 306P | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| B | 2" (float size ≤ ø50 available) | F 4" (all float size available) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C | 3" (all float size available) | G 5" (all float size available) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| D | 1" (float size ≤ ø28 available) | O Option | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | B | NPT | | F | JIS 10K | J | JIS 40K | | O | Option | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | C | BSP | | G | ANSI 150# | K | ANSI 300# | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | D | Option | | H | JIS 20K | L | ANSI 600# | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Code | Contact Form | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| ELS | | Complete Ordering Code | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Ordering Information

| ELS | Code | Model | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---------------|--|---|---------------|--|-------------------|--|----------------------------------|---|-----------|---|---------------------------------|-------------|-------------------------------|---------------------------------|-------------|---------------------------------|----------|-----|---------|------|-----------|------|------|------|---------|---|---------|---|--------|---|-----|---|-----------|---|-----------|--|--|---|--------|---|---------|---|-----------|--|--|
| | | <table border="1"> <tr> <th colspan="5">- Metal Float</th> <th colspan="6">- Non-Metal Float</th> </tr> <tr> <td>401</td> <td>402</td> <td>403</td> <td>404</td> <td>405</td> <td>401P</td> <td>402P</td> <td>403P</td> <td>404P</td> <td>405P</td> <td>406P</td> </tr> </table> | - Metal Float | | | | | - Non-Metal Float | | | | | | 401 | 402 | 403 | 404 | 405 | 401P | 402P | 403P | 404P | 405P | 406P | | | | | | | | | | | | | | | | | | | | | |
| - Metal Float | | | | | - Non-Metal Float | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 401 | 402 | 403 | 404 | 405 | 401P | 402P | 403P | 404P | 405P | 406P | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| B | 2" (float size ≤ ø50 available) | F 4" (all float size available) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C | 3" (all float size available) | G 5" (all float size available) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | B | NPT | | F | JIS 10K | J | JIS 40K | O | Option | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | C | BSP | | G | ANSI 150# | K | ANSI 300# | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | D | Option | | H | JIS 20K | L | ANSI 600# | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| S | Certificate on Housing Only / XDS & XDA: II 2G D Ex db IIC Gb Ex tb IIIC Db | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ELS | | Complete Ordering Code | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

LA-200 Series Two Float Type



Ordering Information

| LA | Code | Model |
|----|------|--|
| | | – Metal Float |
| | | 201 202 203 |
| | | Code Material of Wetted Parts |
| | | (1) SS304 (2) SS316 (3) option |
| | | Code Contact Form |
| | | (1) SPST (230V AC/DC) (2) SPDT (250V AC/DC) (3) SPDT (150V AC/DC) |
| | | Code Wiring Code Numbers |
| | | Please refer to <i>Wiring Code Numbers</i> table. |
| | | Code Float Size |
| | | (A) ø28 x 27 (SS316) (B) ø40 x 38 (SS316) (C) ø49 x 49 (SS316) |
| | | 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 <input type="checkbox"/> ON l2= _____ mm <input type="checkbox"/> ON |
| | | Complete Ordering Code |

