

Accessories Catalog

Level Plus®

Magnetostrictive Liquid Level Transmitters with Temposonics® Technology

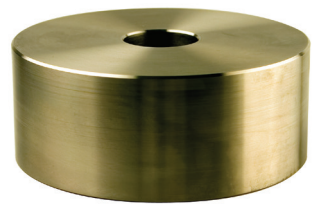


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Introduction

Temposonics offers a variety of floats to meet your application needs. Our floats come in a variety of sizes from 18 mm (0.71 in.) up to 203 mm (8 in.) in diameter. Float materials are available in stainless steel, FEP, Titanium, Nickel Alloy C-276 and Buna-N. Product viscosity, specific gravity, and temperature can vary widely in a process or tank gauging application. Because of these variables and others, such as tank pressure and corrosiveness, no one float can meet all requirements. Therefore, a variety of float styles are available and we will assist you in choosing the one that best meets your requirements.

When choosing a float for your application, Temposonics recommends you choose one that has a specific gravity of at least 0.05 less than that of the measured liquid. For interface measurement, a minimum of 0.05 specific gravity differential is recommended between upper and lower liquids. Temposonics also offers a variety of meters, housings, and calibration equipment as accessories to our transmitter range. Meters are available for analog, and Modbus outputs.

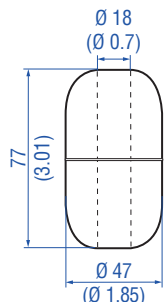
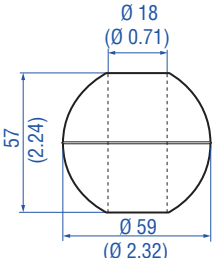
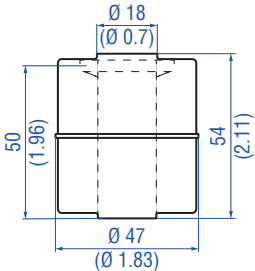
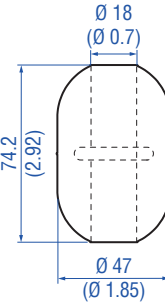
For more information, please contact the Temposonics’ applications department or go to www.temposonics.com for more information.

1. Floats

1.1 Standard product floats

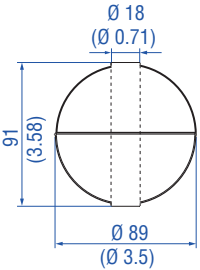
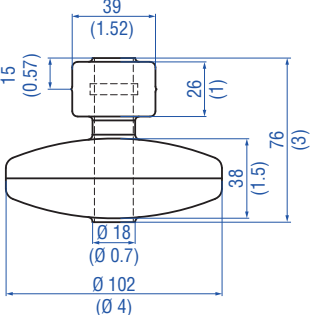
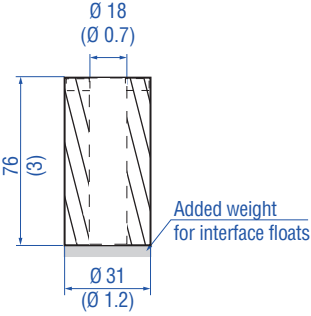
General notes:

1. Be sure that the float specific gravity is at least 0.05 less than that of the measured liquid as a safety margin at ambient temperature.
2. For interface measurement: A minimum of 0.05 specific gravity differential is required between the upper and lower liquids.
3. When the magnet is not shown, the magnet is positioned at the center line of float.
4. Drawings contained in this document are for reference only. Contact the factory for engineering drawings.
5. * Standard float that can be expedited

Photo	Drawing	Max Pipe OD	Pressure	Temperature	Magnet offset	Specific gravity	Material	Part no.
		5/8"	29.3 bar (425 psi)	149 °C (300 °F)	No	0.67	Stainless steel	251 981-2*
						0.71	Nickel Al- loy C-276	251 981-4
		5/8"	22.4 bar (325 psi)	149 °C (300 °F)	No	0.49	Stainless steel	251 387-2
		5/8"	4 bar (60 psi)	149 °C (300 °F)	Yes	0.6	Stainless steel	201 605-2*
		5/8"	69 bar (1000 psi)	149 °C (300 °F)	No	0.68	Stainless steel	254 526-2*

Controlling design dimensions are in millimeters and measurements in () are in inches

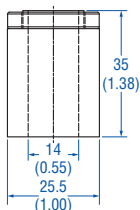
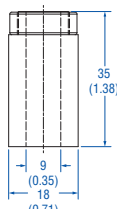
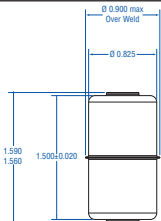
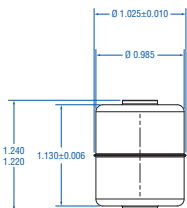
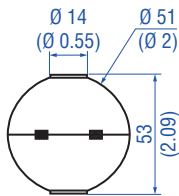
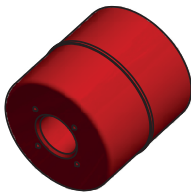
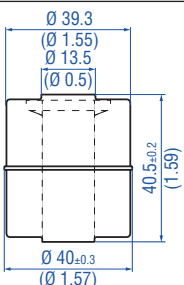
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Photo	Drawing	Max Pipe OD	Pressure	Temperature	Magnet offset	Specific gravity	Material	Part no.
		5/8"	22.4 bar (325 psi)	149 °C (300 °F)	No	0.45	Stainless steel	251 469-2
		5/8"	8.6 bar (125 psi)	149 °C (300 °F)	Yes	0.68	Stainless steel	252 228-4
		5/8"	17.2 bar (250 psi)	104 °C (220 °F)	Yes	0.45	Buna-N	201 643-2*

1.2 LLE product floats

General notes:

1. Be sure that the float specific gravity is at least 0.05 less than that of the measured liquid as a safety margin at ambient temperature.
2. When the magnet is not shown, the magnet is positioned at the center line of float.
3. Drawings contained in this document are for reference only. Contact the factory for engineering drawings.
4. * Standard float that can be expedited

Photo	Drawing	Max Pipe OD	Pressure	Temperature	Magnet offset	Specific gravity	Material	Part no.
		10 mm	17.2 bar (250 psi)	104 °C (220 °F)	No	0.75	Nitrile	201 120
		7 mm	17.2 bar (250 psi)	104 °C (220 °F)	No	0.7	Nitrile	201 999
		7 mm	10.3 bar (150 psi)	149 °C (300 °F)	No	0.72	Stainless steel	404 834
		7 mm	19 bar (275 psi)	149 °C (300 °F)	No	0.68	Stainless steel	404 835
		10 mm	51.7 bar (750 psi)	149 °C (300 °F)	No	0.64	Stainless steel	561 612
		10 mm	4 bar (58 psi)	80 °C (176 °F)	No	0.53	Polypropy- lene	254 886

Controlling design dimensions are in millimeters and measurements in () are in inches

1.3 RefineME interface floats

General notes:

1. RefineME Interface Floats are for a maximum pipe OD of 5/8"
2. For interface measurement: A minimum of 0.05 specific gravity differential is required between the upper and lower liquids.
3. When the magnet is not shown, the magnet is positioned at the center line of float.
4. Drawings contained in this document are for reference only. Contact the factory for engineering drawings.
5. * Standard float that can be expedited

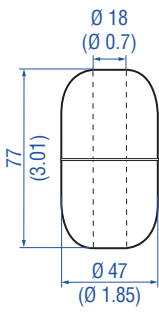
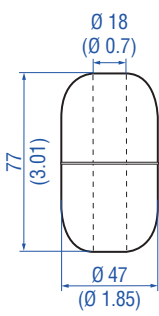
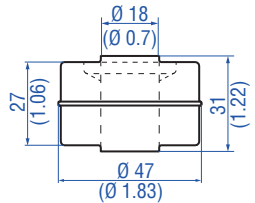
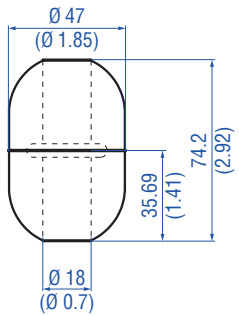
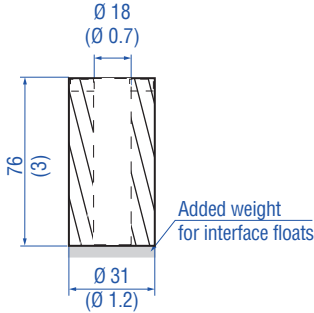
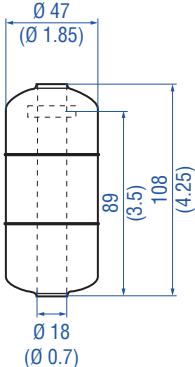
Photo	Drawing	Max Pipe OD	Pressure	Temperature	Magnet offset	Specific gravity	Material	Part no.
		5/8"	29.3 bar (425 psi)	149 °C (300 °F)	No	0.93	Stainless steel	251 982-2*
							Nickel Alloy C-276	251 982-4
		5/8"	29.3 bar (425 psi)	149 °C (300 °F)	No	1.06	Stainless steel	251 983-2*
							Nickel Alloy C-276	251 983-4
		5/8"	4 bar (60 psi)	149 °C (300 °F)	Yes	0.93	Stainless steel	201 606-2*
		5/8"	69 bar (1000 psi)	149 °C (300 °F)	No	0.93	Stainless steel	254 894-2

Photo	Drawing	Max Pipe OD	Pressure	Temperature	Magnet offset	Specific gravity	Material	Part no.
		5/8"	17.2 bar (250 psi)	104 °C (220 °F)	Yes	0.8 – 0.86	Buna-N	201 649-2
						0.91 – 0.96	Buna-N	201 650-2

1.4 SoClean and LLH sanitary floats

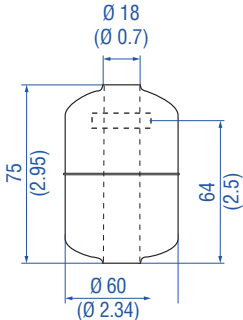
General notes:

1. Be sure that the float specific gravity is at least 0.05 less than that of the measured liquid as a safety margin at ambient temperature.
2. For interface measurement: A minimum of 0.05 specific gravity differential is required between the upper and lower liquids.
3. Sanitary polish is available for stainless-steel floats up to 200 Grit/Ra 25.
4. Electropolish is available for stainless-steel floats up to 240 Grit/Ra 15.
5. When the magnet is not shown, the magnet is positioned at the center line of float.
6. Drawings contained in this document are for reference only. Contact the factory for engineering drawings.
7. * Standard float that can be expedited

Photo	Drawing	Max Pipe OD	Pressure	Temperature	Magnet offset	Specific gravity	Material	Part no.
		5/8"	10.3 bar (150 psi)	149 °C (300 °F)	Yes	0.66	Stainless steel 200 Grit / Ra 25 µin (0.625 µm)	401 513-2*
							Nickel Al- loy C-276 200 Grit / Ra 25 µin (0.625 µm)	402368-2
							Stainless steel 240 Grit / Ra 15 µin (0.375 µm)	401 513-4
							Nickel Al- loy C-276 240 Grit / Ra 15 µin (0.375 µm)	402 368-4

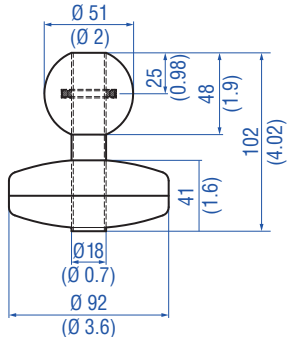
Note for part no. 401513-X and 402368-X:

- Float meets 3A Sanitary specifications.
- Use this float with all Sanitary transmitter wells as other floats may enter the inactive zone when the tank is emptied.

		5/8"	22.4 bar (325 psi)	149 °C (300 °F)	Yes	0.63	Stainless steel 200 Grit / Ra 25 µin (0.625 µm)	200 931-6
							Stainless steel 240 Grit / Ra 15 µin (0.375 µm)	200 931-8

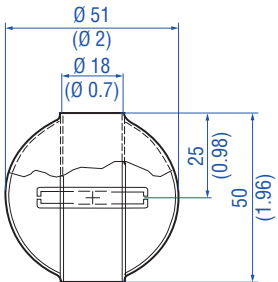
Note for part no. 200931-X:

- Float meets 3A Sanitary specifications.
- Float will enter inactive zone when the tank is empty.

Photo	Drawing	Max Pipe OD	Pressure	Temperature	Magnet offset	Specific gravity	Material	Part no.
		5/8"	8.6 bar (125 psi)	149 °C (300 °F)	Yes	0.57	Stainless steel 240 Grit / Ra 15 µin (0.375 µm)	252 228-2

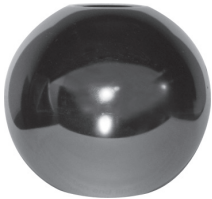
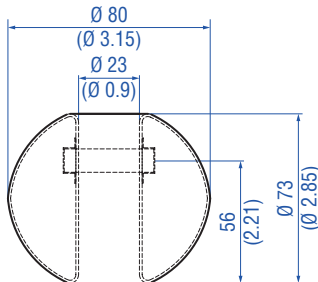
Note for part no. 252 228-2

Use this float with all Sanitary transmitter wells as other floats may enter the inactive zone when the tank is emptied.

		5/8"	22.4 bar (325 psi)	149 °C (300 °F)	No	0.74	Stainless steel 200 Grit / Ra 25 µin (0.625 µm)	251 234-2
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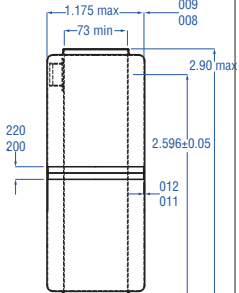
Note for part no. 251 234-2:

- Float may enter the inactive zone. Consult factory about viability of usage.

		5/8"	64 bar (928 psi)	149 °C (300 °F)	Yes	0.86	Stainless steel 240 Grit / Ra 15 µin (0.375 µm)	560 564-2
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Note for part no. 560 564-2

- Float meets 3A Sanitary specifications.
- Float may enter the inactive zone. Consult factory about viability of usage.

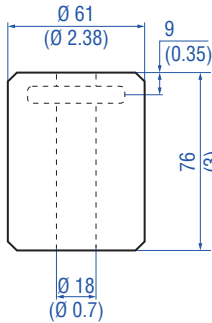
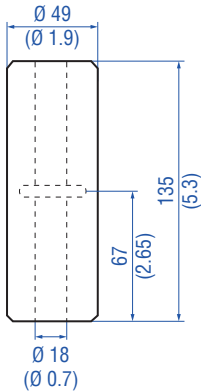
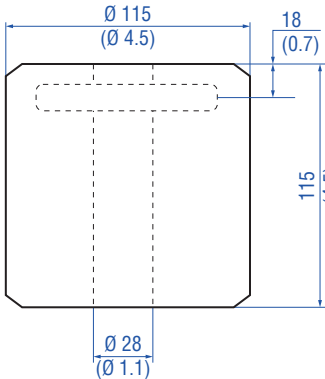
		5/8"	5.5 bar (80 psi)	149 °C (300 °F)	Yes	0.88	Stainless steel 200 Grit / Ra 25 µin (0.625 µm)	403 374
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Controlling design dimensions are in millimeters and measurements in () are in inches

1.5 RefineME FEP floats

General notes:

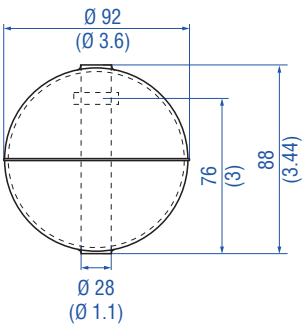
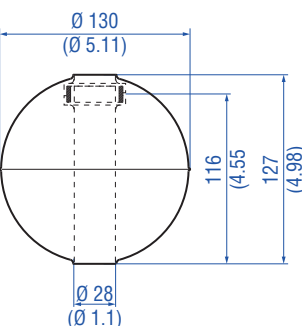
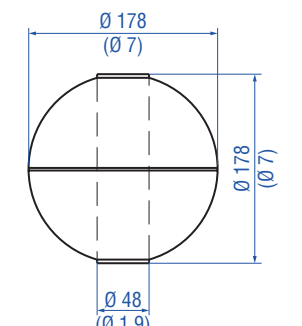
1. Be sure that the float specific gravity is at least 0.05 less than that of the measured liquid as a safety margin at ambient temperature.
2. For interface measurement: A minimum of 0.05 specific gravity differential is required between the upper and lower liquids.
3. When the magnet is not shown, the magnet is positioned at the center line of float.
4. Drawings contained in this document are for reference only. Contact the factory for engineering drawings.
5. Floats 251 939, 251 119, and 251 120 should not be used in hazardous areas. Please consult Installation and operation manual for further details.

Photo	Drawing	Max Pipe OD	Pressure	Temperature	Magnet offset	Specific gravity	Material	Part no.
		5/8"	1.7 bar (25 psi)	38 °C (100 °F)	Yes	0.86	FEP	201 109-2
						0.93	FEP	251 115-2
						1.06	FEP	251 116-2
		5/8"	1.7 bar (25 psi)	38 °C (100 °F)	No	0.86	FEP	251 939-2
		5/8"	1.7 bar (25 psi)	38 °C (100 °F)	Yes	0.93	FEP	251 119-2
						1.06	FEP	251 120-2

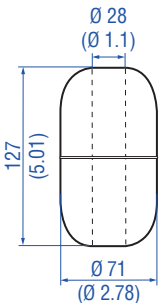
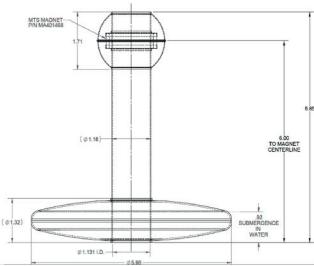
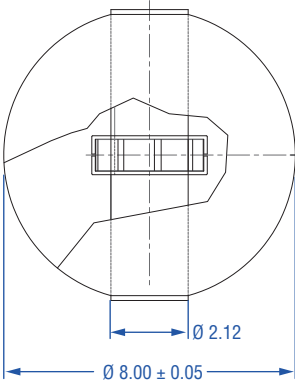
1.6 Long-gauge floats

General notes:

1. Be sure that the float specific gravity is at least 0.05 less than that of the measured liquid as a safety margin at ambient temperature.
2. For interface measurement: A minimum of 0.05 specific gravity differential is required between the upper and lower liquids.
3. When the magnet is not shown, the magnet is positioned at the center line of float.
4. Drawings contained in this document are for reference only. Contact the factory for engineering drawings.
5. * Standard float that can be expedited

Photo	Drawing	Max Pipe OD	Pressure	Temperature	Magnet offset	Specific gravity	Material	Part no.
		7/8"	29.3 bar (425 psi)	149 °C (300 °F)	Yes	0.54	Stainless steel	252 961-2*
						0.65	Nickel Alloy C-276	252 961-4
						0.93	Stainless steel	252 962-2
						0.93	Nickel Alloy C-276	252 962-4
						1.06	Stainless steel	252 963-2
						1.06	Nickel Alloy C-276	252 963-4
		7/8"	44.8 bar (650 psi)	149 °C (300 °F)	Yes	0.44	Stainless steel	201 248-2
						0.52	Nickel Alloy C-276	201 248-4
						0.93	Stainless steel	252 959-2
						0.93	Nickel Alloy C-276	252 959-4
						1.06	Stainless steel	252 960-2
						1.06	Nickel Alloy C-276	252 960-4
		7/8"	17.2 bar (250 psi)	149 °C (300 °F)	No	0.44	Stainless steel	251 426-2
						0.47	Nickel Alloy C-22**	251 426-4
						0.93	Stainless steel	251 427-2
						0.93	Nickel Alloy C-22**	251 427-4
						1.06	Stainless steel	251 428-2

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Photo	Drawing	Max Pipe OD	Pressure	Temperature	Magnet offset	Specific gravity	Material	Part no.
		7/8"	22.4 bar (325 psi)	149 °C (300 °F)	No	0.67	Stainless steel	201 232-2*
						0.70	Nickel Alloy C-276	201 232-4
						0.93	Stainless steel	201 233-2
		7/8"	5 bar (75 psi)	149 °C (300 °F)	Yes	0.97	Stainless steel	252999-2
		7/8"	31 bar (450 psi)	149 °C (300 °F)	Yes	0.4	Stainless steel	201715-2

** Internal diameter for these floats is 34.8 mm (1.37 in.)

Controlling design dimensions are in millimeters and measurements in () are in inches

2. Process meters and enclosures

2.1 Analog process meters

Photo	Description	Part no.
	LED Display Universal Analog Process Meter (Contact Temposonics for more options including explosion proof housings.) 6 Digit LED display Input: Analog 4...20 mA Output: None 110 VAC Input Power 32 point linearization Includes 24 Vdc transmitter supply Material: Standard 1/8 in. DIN, high impact plastic, NEMA Type 4X front panel	380 071
	LED Display Universal Analog Process Meter (2 Relays) (Contact Temposonics for more options including explosion proof housings.) 6 Digit LED display Input: Analog 4...20 mA Output: 2 relays 110 VAC Input Power 32 point linearization Includes 24 Vdc transmitter supply Material: Standard 1/8 in. DIN, high impact plastic, NEMA Type 4X front panel	380 072
	LED Display Universal Analog Process Meter (4 Relays) (Contact Temposonics for more options including explosion proof housings.) 6 Digit LED display Input: Analog 4-20 mA Output: 4 relays 110 VAC Input Power 32 point linearization Includes 24 Vdc transmitter supply Material: Standard 1/8 in. DIN, high impact plastic, NEMA Type 4X front panel	380 073
	LED Display Universal Analog Process Meter (2 Relays, 4...20 mA) (Contact Temposonics for more options including explosion proof housings.) 6 Digit LED display Input: Analog 4...20 mA Output: 4...20 mA and 2 relays 110 VAC Input Power 32 point linearization Includes 24 Vdc transmitter supply Material: Standard 1/8 in. DIN, high impact plastic, NEMA Type 4X front panel	380 095
	Loop Powered Analog Meter Loop Powered on 4...20 mA output Displays loop current, engineering units, and/or value Selectable on screen engineering units IP 67 / NEMA Type 4X Intrinsically Safe, backlight	380 088

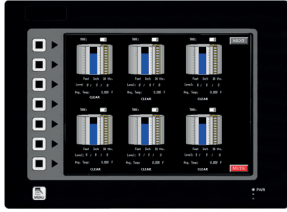
2.2 Modbus process meters

Photo	Description	Part no.
	Multivariable Modbus Process Meter Display levels in feet, inches, and 16ths of an inch Input: RS485 Modbus RTU Output: 2 Form A relays and 4...20 mA 110 VAC Input Power 16 point linearization Includes 24 Vdc transmitter supply Material: Standard 1/8 in. DIN, high impact plastic, NEMA Type 4X front panel	380 086
	Single Variable Modbus Process Meter (Contact Temposonics for more options including explosion proof housings.) 6 Digit Display in Decimal Format Display 1 process variable without interrupting Master/Slave communication Input: RS485 Modbus RTU Output: 2 Form A relays and 4...20 mA 110 VAC Input Power 16 point linearization Includes 24 Vdc transmitter supply Material: Standard 1/8 in. DIN, high impact plastic, NEMA Type 4X front panel	380 094

2.3 Process meter enclosures

Photo	Description	Part no.
	NEMA Enclosures - Single NEMA 4X <i>(NEMA Enclosures are available for most process meters, please contact factory for more information.)</i>	401 150
	NEMA Enclosures - Dual NEMA 4X <i>(NEMA Enclosures are available for most process meters, please contact factory for more information.)</i>	401 151

2.4 Modbus Terminals

Photo	Description	Part no.
	Touchscreen Modbus Terminal Displays up to 16 tanks (2 levels, temp, volume) Displays levels in ft., in, and 16ths in. Input: up to 16 Modbus transmitters Output: Modbus Pictorial display of tanks Touchscreen Mounted in NEMA 4 box Class 1, Div. 2, Groups ABCD ATEX/IECEx Ex ic nA IIC T4 Gc Includes Power Supply Calibrate from Screen	280897-X (7") 280898-X (10")

3. Programming and hardware

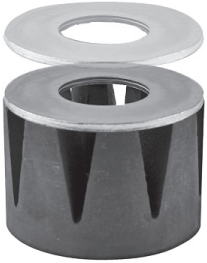
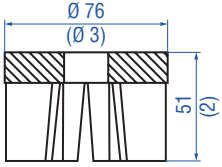
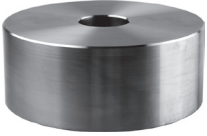
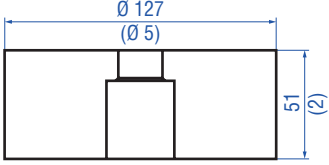
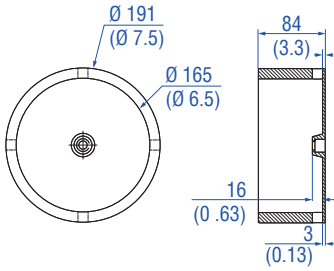
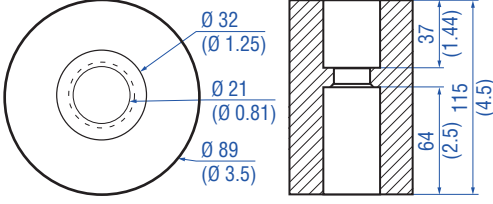
3.1 Setup software

Photo	Description	Part no.
	LP-Dashboard on USB	551 719

3.2 Hardware

Photo	Description	Part no.
	HART® to USB adapter	380 068
	RS-485 to USB adapter converter	380 114

4. Magnet and weight assemblies

Photo	Drawing	Description	Part no.
		150 lb. Pull Magnet For Tank SLAYER® level transmitter. (Washer must be removed before installation)	560 604
		Standard 11 lb. Weight For LP-Series transmitters	401 059
		Low Liffoff 11 lb. Weight Assembly	402 364
		Narrow 11 lb. Weight Use with LP-Series transmitters	402 647



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