

# SRP Series Rotary Paddle Point Level Sensor



# PRODUCT INTRODUCTION

#### **PRINCIPLE**

The SRP Series is a rotary paddle point level sensor used to detect the presence and absence of materials within bins, hoppers, silos and other vessels containing powder and bulk solids. The SRP uses a robust synchronous motor to drive its shaft at approximately 1 RPM. The chosen paddle is attached to the shaft and rotates freely in the absence of material.

As material comes in contact and impedes the paddle rotation, two limit switches internal to the assembly will be activated as the motor is allowed to rotate slightly on its internal motor mounting plate. This movement is spring-loaded based upon the position of the sensitivity spring located above the data nameplate for easy adjustment if required. Limit switch number 2 will change the state of the output relay contacts (or directly perform output function for microswitch versions). Limit switch number 1 will disconnect power to the motor. A third limit switch is provided for those versions with two microswitchs used for the unit output are isolated from the motor voltage.

As material falls away from the paddle, the sensitivity spring will rotate the motor on its mounting plate back to the original position, thereby changing the state of the output microswitches or relays. In addition power is applied to the motor and rotation of the paddle resumes as it is now free from the target material.

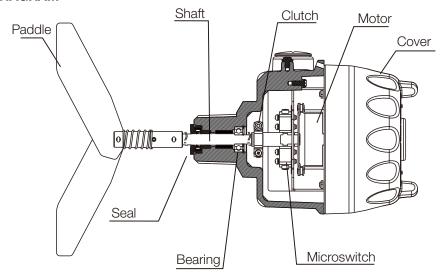
## **FEATURES**

- Universal 20-250VAC/VDC power supply available
- 110VAC or 220VAC dedicated power supply versions available
- Local LED indication (not with dedicated power supply versions)
- · Technician friendly cover chain available
- Unique seal for pressure up to 58psi (4bar)
- · Easily adjusted sensitivity, no disassembly required
- · Automatic motor shutoff extends motor life
- Remote test function (some versions)
- Bin temperature up to 392°F (200°C) available

#### **INDUSTRY USE**

- Concrete Production
- Cement
- Asphalt
- Agriculture
- Feed & Grain Processing
- Plastic Processing
- Food
- Pharmaceutical
- Chemical
- Ceramic
- Water/Wastewater
- Steel

## **INTERNAL DIAGRAM**



# **TYPES & SPECIFICATIONS**

	Inch (mm)	Inch (mm)
Dimensions	0.3" (25) (7.6) $\phi$ 0.37 (9.5) (9.5)	φ5.12" (130)  4.92" (213) (258)  1-1/4"NPT  (258)  1-1/4"NPT  (258)  (25) (25) (25) (25) (25) (25) (25) (2
Туре	Standard	High Temperature
Order no.	SRP1710	SRP1710
Ambient temp.	-40°F to +176°F (-40°C to +80°C)	
Storage temp.	-40°F to +176°F (-40°C to +80°C)	
Process temp.	-40°F to +176°F (-40°C to +80°C)	-40°F to +392°F (-40°C to +200°C)
Relative humidity	20%~80% RH	non-condensed
Pressure	58psi (4 bar) / 43 psi (3 bar) Explosionproof version	
Housing material	Diecast Aluminum (powder coated)	
Protection	NEMA 4X / IP65	
Connection	1-1/4"NPT	
Conduit entrance	Two 3/4"NPT	
Paddle speed	1/1.2 RPM	
Supply voltage	Universal 20~250VAC/VDC, 50/60Hz; 110VAC, 50/60Hz; 220VAC, 50/60Hz	
Output rating	ONE Relay: 5A @ 250VAC/30VDC (Option: TWO Relays)* ONE NPN/PNP: 400mA @ 60VAC/VDC (Option: TWO NPN/PNP)* ONE Microswitch: 6A @ 250VAC (Option: TWO Microswitches)†	
Power consumption	Max. : 15VA	
Fail safe mode	FSH/FSL Switch*	
Delay time	Adjustable 0~12s ±3s Material Detection Delay*	
Bulk density	>18.7lbs/ft <sup>3**</sup>	
Remote test	Jumper RT1/RT2 for Test*	
LED Indication	Green = Normal / Red = Alarm*	

<sup>\*</sup>Provided only with Universal 20-250VAC/VDC Power Supply \*\*Dependent on paddle selection and sensitivity spring position

Dimensions	φ5.12" (130)  4.92" (125)  1-1/4"NPT  φ0.37" (9.5) 304SS  φ0.35" (9.5) (12.7)  10"~118" (254~2997.2)  1/4"NPSM  φ0.14" (3.6) φ0.12" (3.17)	φ5.12" (130)  Inch (mm)  4.92" (125)  8.39" (213)  304SS  φ0.37" (9.5)  304SS  φ0.35" (9)  10"~118" (254~2997.2)  1/4"NPSM  φ0.14" (3.56) φ0.12" (3.17)	
Туре	Adjustable Shaft	Adjustable Shaft & High Temp.	
Order no.	SRP1712	SRP1712	
Ambient temp.	-40°F to +176°F (-40°C to +80°C)		
Storage temp.	-40°F to +176°F (-40°C to +80°C)		
Process temp.	-40°F to +176°F (-40°C to +80°C)	-40°F to +392°F (-40°C to +200°C)	
Relative humidity	20%~80% RH non-condensed		
Pressure	58psi (4 bar) / 43 psi (3 bar) Explosionproof version		
Housing material	Diecast Aluminum (powder coated)		
Protection	NEMA 4	NEMA 4X / IP65	
Connection	1-1/4"NPT		
Conduit entrance	Two 3/4"NPT		
Paddle speed	1/1.2 RPM		
Supply voltage	Universal 20~250VAC/VDC, 50/60Hz; 110VAC, 50/60Hz; 220VAC, 50/60Hz		
Output rating	ONE Relay: 5A @ 250VAC/30VDC (Option: TWO Relays)* ONE NPN/PNP: 400mA @ 60VAC/VDC (Option: TWO NPN/PNP)* ONE Microswitch: 6A @ 250VAC (Option: TWO Microswitches) †		
Power consumption	Max. : 15VA		
Fail safe mode	FSH/FSL Switch*		
Delay time	Adjustable 0~12s ±3s Material Detection Delay*		
Bulk density	>18.7lbs/ft³**		
Remote test	Jumper RT1/RT2 for Test*		
LED Indication	Green = Normal / Red = Alarm*		

<sup>\*</sup>Provided only with Universal 20-250VAC/VDC Power Supply

<sup>\*\*</sup>Dependent on paddle selection and sensitivity spring position

	Inch (mm)	Inch (mm)	
Dimensions	φ5.12" (130) 4.92" (125)  1-1/4"NPT φ0.37" (9.5) 304SS φ0.24" (6)	φ5.12" (130)  4.92" (125) 8.39" (213)  304SS  φ0.37" (9.5)  20"~216" (508~5486.4)	
Туре	Cable	Cable & High Temp.	
Order no.	SRP1713	SRP1713	
Ambient temp.	-40°F to +176°F	-40°F to +176°F (-40°C to +80°C)	
Storage temp.	$-40^{\circ}$ F to $+176^{\circ}$ F ( $-40^{\circ}$ C to $+80^{\circ}$ C)		
Process temp.	-40°F to +176°F (-40°C to +80°C)	-40°F to +392°F (-40°C to +200°C)	
Relative humidity	20%~80% RH	20%~80% RH non-condensed	
Pressure	58psi (4 bar) / 43 psi (3 bar) Explosionproof version		
Housing material	Diecast Aluminum (powder coated)		
Protection	NEMA 4X / IP65		
Connection	1-1/4"NPT		
Conduit entrance	Two 3/4"NPT		
Paddle speed	1/1.2 RPM		
Supply voltage	Universal 20 ~250VAC/VDC, 50/60Hz; 110VAC, 50/60Hz; 220VAC, 50/60Hz		
Output rating	ONE Relay: 5A @ 250VAC/30VDC (Option: TWO Relays)* ONE NPN/PNP: 400mA @ 60VAC/VDC (Option: TWO NPN/PNP)* ONE Microswitch: 6A @ 250VAC (Option: TWO Microswitches) †		
Power consumption	Max. : 15VA		
Fail safe mode	FSH/FSL Switch*		
Delay time	Adjustable 0~12s ±3s Material Detection Delay*		
Bulk density	>18.7	>18.7lbs/ft <sup>3</sup> **	
Remote test	Jumper RT1/RT2 for Test*		
LED Indication	Green = Normal / Red = Alarm*		

<sup>\*</sup>Provided only with Universal 20-250VAC/VDC Power Supply

<sup>\*\*</sup>Dependent on paddle selection and sensitivity spring position

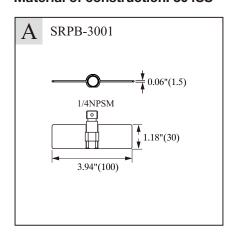
Type Reinforced Shaft  Order no. SRP1714  Ambient temp40°F to +176°F (-40°C to +80°C)  Storage temp40°F to +176°F (-40°C to +80°C)  Process temp40°F to +176°F (-40°C to +80°C)  Relative humidity 20%~80% RH non-condensed  Pressure 58psi (4 bar) / 43 psi (3 bar) Explosionproof version  Housing material Diecast Aluminum (powder coated)  Protection NEMA 4X / IP65  Connection 1-1/4"NPT  Conduit entrance Two 3/4"NPT  Paddle speed 1/1.2 RPM  Supply voltage Universal 20 ~250VAC/VDC, 50/60Hz; 110VAC, 50/60Hz; 220VAC, 50/60Hz  ONE Relay: 5A @ 250VAC/30VDC (Option: TWO Relays)*  ONE NPN/PNP: 400mA @ 60VAC/VDC (Option: TWO NPN/PNP)*  ONE Microswitch: 6A @ 250VAC (Option: TWO Microswitches) †  Power consumption Max.: 15VA  Fail safe mode FSH/FSL Switch*  Delay time Adjustable 0~12s ±3s Material Detection Delay*  Bulk density Jumper RT1/RT2 for Test*  LED Indication Green = Normal / Red = Alarm*	Dimensions	## description of the content of the	
Order no.  Ambient temp.  Ambient temp.  -40°F to +176°F (-40°C to +80°C)  Storage temp.  -40°F to +176°F (-40°C to +80°C)  Process temp.  -40°F to +176°F (-40°C to +80°C)  Process temp.  -40°F to +176°F (-40°C to +80°C)  Relative humidity  20%-80% RH non-condensed  Pressure  58psi (4 bar) / 43 psi (3 bar) Explosionproof version  Housing material  Diecast Aluminum (powder coated)  Protection  NEMA 4X / IP65  Connection  1-1/4"NPT  Conduit entrance  Two 3/4"NPT  Paddle speed  1/1.2 RPM  Supply voltage  Universal 20 ~250VAC/VDC, 50/60Hz; 110VAC, 50/60Hz; 220VAC, 50/60Hz  ONE Relay: 5A @ 250VAC/30VDC (Option: TWO Relays)*  ONE NPN/PNP: 400mA @ 60VAC/VDC (Option: TWO NPN/PNP)*  ONE Microswitch: 6A @ 250VAC (Option: TWO Microswitches) †  Power consumption  Fail safe mode  FSH/FSL Switch*  Delay time  Adjustable 0-12s ±3s Material Detection Delay*  Pumper RT1/RT2 for Test*	Type	Reinforced Shaft	
Storage temp.  -40°F to +176°F (-40°C to +80°C)  Process temp.  -40°F to +176°F (-40°C to +80°C)  Relative humidity  20%-80% RH non-condensed  Pressure  58psi (4 bar) / 43 psi (3 bar) Explosionproof version  Housing material  Diecast Aluminum (powder coated)  Protection  NEMA 4X / IP65  Connection  1-1/4"NPT  Conduit entrance  Two 3/4"NPT  Paddle speed  1/1.2 RPM  Supply voltage  Universal 20 ~250VAC/VDC, 50/60Hz; 110VAC, 50/60Hz; 220VAC, 50/60Hz  ONE Relay: 5A @ 250VAC/30VDC (Option: TWO Relays)*  ONE NPN/PNP: 400mA @ 60VAC/VDC (Option: TWO NPN/PNP)*  ONE Microswitch: 6A @ 250VAC (Option: TWO Microswitches) †  Power consumption  Max.: 15VA  Fail safe mode  FSH/FSL Switch*  Delay time  Adjustable 0~12s ±3s Material Detection Delay*  Sumper RT1/RT2 for Test*			
Process temp.  -40°F to +176°F (-40°C to +80°C)  Relative humidity  20%-80% RH non-condensed  Pressure  58psi (4 bar) / 43 psi (3 bar) Explosionproof version  Housing material  Diecast Aluminum (powder coated)  Protection  NEMA 4X / IP65  Connection  1-1/4"NPT  Conduit entrance  Two 3/4"NPT  Paddle speed  1/1.2 RPM  Supply voltage  Universal 20 ~250VAC/VDC, 50/60Hz; 110VAC, 50/60Hz; 220VAC, 50/60Hz  ONE Relay: 5A @ 250VAC/30VDC (Option: TWO Relays)*  ONE NPN/PNP: 400mA @ 60VAC/VDC (Option: TWO NPN/PNP)*  ONE Microswitch: 6A @ 250VAC (Option: TWO Microswitches) †  Power consumption  Max.: 15VA  Fail safe mode  FSH/FSL Switch*  Delay time  Adjustable 0~12s ±3s Material Detection Delay*  Supply voltage  Jumper RT1/RT2 for Test*	Ambient temp.	-40°F to +176°F (-40°C to +80°C)	
Relative humidity  20%~80% RH non-condensed  Pressure  58psi (4 bar) / 43 psi (3 bar) Explosionproof version  Housing material  Diecast Aluminum (powder coated)  Protection  NEMA 4X / IP65  Connection  1-1/4"NPT  Conduit entrance  Two 3/4"NPT  Paddle speed  1/1.2 RPM  Supply voltage  Universal 20 ~250VAC/VDC, 50/60Hz; 110VAC, 50/60Hz; 220VAC, 50/60Hz  ONE Relay: 5A @ 250VAC/30VDC (Option: TWO Relays)*  ONE NPN/PNP: 400mA @ 60VAC/VDC (Option: TWO NPN/PNP)*  ONE Microswitch: 6A @ 250VAC (Option: TWO Microswitches) †  Power consumption  Max.: 15VA  Fail safe mode  FSH/FSL Switch*  Delay time  Adjustable 0~12s ±3s Material Detection Delay*  Supply voltage  Supply voltage  Adjustable 0~12s ±3s Material Detection Delay*  Supply voltage  Supply voltage  Adjustable 0~12s ±3s Material Detection Delay*  Supply voltage  Supply voltage  Adjustable 0~12s ±3s Material Detection Delay*  Supply voltage  Supply voltage  Supply voltage  Adjustable 0~12s ±3s Material Detection Delay*  Supply voltage  Supply vo	Storage temp.		
Pressure 58psi (4 bar) / 43 psi (3 bar) Explosionproof version  Housing material Diecast Aluminum (powder coated)  Protection NEMA 4X / IP65  Connection 1-1/4"NPT  Conduit entrance Two 3/4"NPT  Paddle speed 1/1.2 RPM  Supply voltage Universal 20 ~250VAC/VDC, 50/60Hz; 110VAC, 50/60Hz; 220VAC, 50/60Hz  ONE Relay: 5A @ 250VAC/30VDC (Option: TWO Relays)*  ONE NPN/PNP: 400mA @ 60VAC/VDC (Option: TWO NPN/PNP)*  ONE Microswitch: 6A @ 250VAC (Option: TWO Microswitches) †  Power consumption Max.: 15VA  Fail safe mode FSH/FSL Switch*  Delay time Adjustable 0~12s ±3s Material Detection Delay*  Bulk density >18.7lbs/ft3**  Remote test Jumper RT1/RT2 for Test*		-40°F to +176°F (-40°C to +80°C)	
Housing material  Diecast Aluminum (powder coated)  Protection  NEMA 4X / IP65  Connection  1-1/4"NPT  Conduit entrance  Two 3/4"NPT  Paddle speed  1/1.2 RPM  Supply voltage  Universal 20 ~250VAC/VDC, 50/60Hz; 110VAC, 50/60Hz; 220VAC, 50/60Hz  ONE Relay: 5A @ 250VAC/30VDC (Option: TWO Relays)*  Output rating  ONE NPN/PNP: 400mA @ 60VAC/VDC (Option: TWO NPN/PNP)*  ONE Microswitch: 6A @ 250VAC (Option: TWO Microswitches) †  Power consumption  Max.: 15VA  Fail safe mode  FSH/FSL Switch*  Delay time  Adjustable 0~12s ±3s Material Detection Delay*  Bulk density  >18.7lbs/ft3**  Remote test  Jumper RT1/RT2 for Test*	Relative humidity	20%~80% RH non-condensed	
Protection  NEMA 4X / IP65  Connection  1-1/4"NPT  Conduit entrance  Two 3/4"NPT  Paddle speed  1/1.2 RPM  Supply voltage  Universal 20 ~250VAC/VDC, 50/60Hz; 110VAC, 50/60Hz; 220VAC, 50/60Hz  ONE Relay: 5A @ 250VAC/30VDC (Option: TWO Relays)*  ONE NPN/PNP: 400mA @ 60VAC/VDC (Option: TWO NPN/PNP)*  ONE Microswitch: 6A @ 250VAC (Option: TWO Microswitches) †  Power consumption  Max.: 15VA  Fail safe mode  FSH/FSL Switch*  Delay time  Adjustable 0~12s ±3s Material Detection Delay*  Bulk density  > 18.7lbs/ft3**  Remote test  Jumper RT1/RT2 for Test*	Pressure	58psi (4 bar) / 43 psi (3 bar) Explosionproof version	
Connection 1-1/4"NPT  Conduit entrance Two 3/4"NPT  Paddle speed 1/1.2 RPM  Supply voltage Universal 20 ~250VAC/VDC, 50/60Hz; 110VAC, 50/60Hz; 220VAC, 50/60Hz  ONE Relay: 5A @ 250VAC/30VDC (Option: TWO Relays)* ONE NPN/PNP: 400mA @ 60VAC/VDC (Option: TWO NPN/PNP)* ONE Microswitch: 6A @ 250VAC (Option: TWO Microswitches) †  Power consumption Max.: 15VA  Fail safe mode FSH/FSL Switch*  Delay time Adjustable 0~12s ±3s Material Detection Delay*  Bulk density >18.7lbs/ft3**  Remote test Jumper RT1/RT2 for Test*	Housing material	Diecast Aluminum (powder coated)	
Conduit entrance  Two 3/4"NPT  Paddle speed  1/1.2 RPM  Supply voltage  Universal 20 ~250VAC/VDC, 50/60Hz; 110VAC, 50/60Hz; 220VAC, 50/60Hz  ONE Relay: 5A @ 250VAC/30VDC (Option: TWO Relays)*  ONE NPN/PNP: 400mA @ 60VAC/VDC (Option: TWO NPN/PNP)*  ONE Microswitch: 6A @ 250VAC (Option: TWO Microswitches) †  Power consumption  Max.: 15VA  Fail safe mode  FSH/FSL Switch*  Delay time  Adjustable 0~12s ±3s Material Detection Delay*  S18.7lbs/ft3**  Remote test  Jumper RT1/RT2 for Test*	Protection	NEMA 4X / IP65	
Paddle speed  1/1.2 RPM  Supply voltage  Universal 20 ~250VAC/VDC, 50/60Hz; 110VAC, 50/60Hz; 220VAC, 50/60Hz  ONE Relay: 5A @ 250VAC/30VDC (Option: TWO Relays)*  ONE NPN/PNP: 400mA @ 60VAC/VDC (Option: TWO NPN/PNP)*  ONE Microswitch: 6A @ 250VAC (Option: TWO Microswitches) †  Power consumption  Max.: 15VA  Fail safe mode  FSH/FSL Switch*  Delay time  Adjustable 0~12s ±3s Material Detection Delay*  Sulk density  >18.7lbs/ft3**  Remote test  Jumper RT1/RT2 for Test*	Connection	1-1/4"NPT	
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Output rating  ONE NPN/PNP: 400mA @ 60VAC/VDC (Option: TWO NPN/PNP)* ONE Microswitch: 6A @ 250VAC (Option: TWO Microswitches) †  Power consumption  Max.: 15VA  Fail safe mode  FSH/FSL Switch*  Delay time  Adjustable 0~12s ±3s Material Detection Delay*  > 18.7lbs/ft3**  Remote test  Jumper RT1/RT2 for Test*	Supply voltage		
Fail safe mode  FSH/FSL Switch*  Delay time  Adjustable 0~12s ±3s Material Detection Delay*  Bulk density  >18.7lbs/ft3**  Remote test  Jumper RT1/RT2 for Test*	Output rating	ONE NPN/PNP: 400mA @ 60VAC/VDC (Option: TWO NPN/PNP)*	
Delay time  Adjustable 0~12s ±3s Material Detection Delay*  > 18.7lbs/ft3**  Remote test  Jumper RT1/RT2 for Test*	Power consumption	Max. : 15VA	
Bulk density >18.7lbs/ft3**  Remote test Jumper RT1/RT2 for Test*	Fail safe mode	FSH/FSL Switch*	
Remote test Jumper RT1/RT2 for Test*	Delay time	Adjustable 0~12s ±3s Material Detection Delay*	
·	Bulk density	>18.7lbs/ft3**	
LED Indication Green = Normal / Red = Alarm*	Remote test	Jumper RT1/RT2 for Test*	
	LED Indication	Green = Normal / Red = Alarm*	

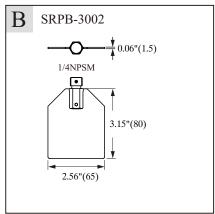
<sup>\*</sup>Provided only with Universal 20-250VAC/VDC Power Supply

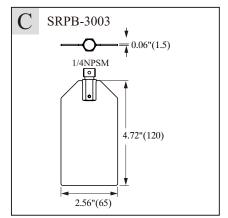
<sup>\*\*</sup>Dependent on paddle selection and sensitivity spring position

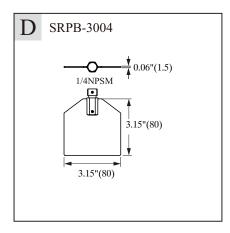
# **TYPES OF ACCESSORIES**

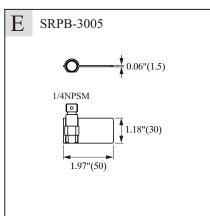
# PADDLES - ATTACHED BY 1/4" MALE THREADED CONNECTION Material of construction: 304SS

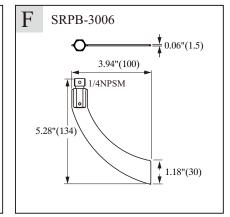


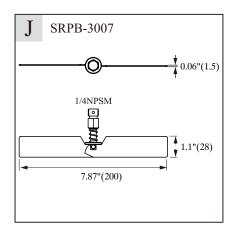


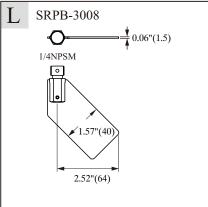


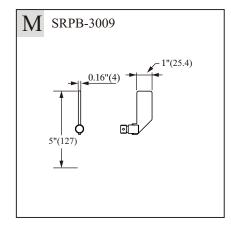


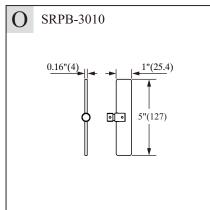


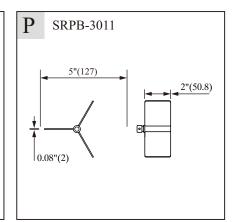


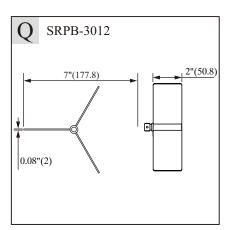


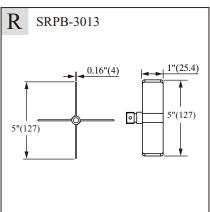




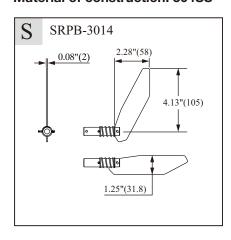


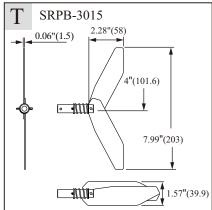






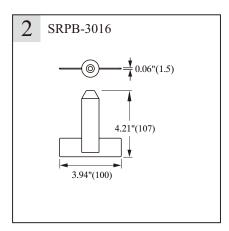
# PADDLES - DIRECT CONNECT (ATTACH BY USING PIN ONLY) Material of construction: 304SS



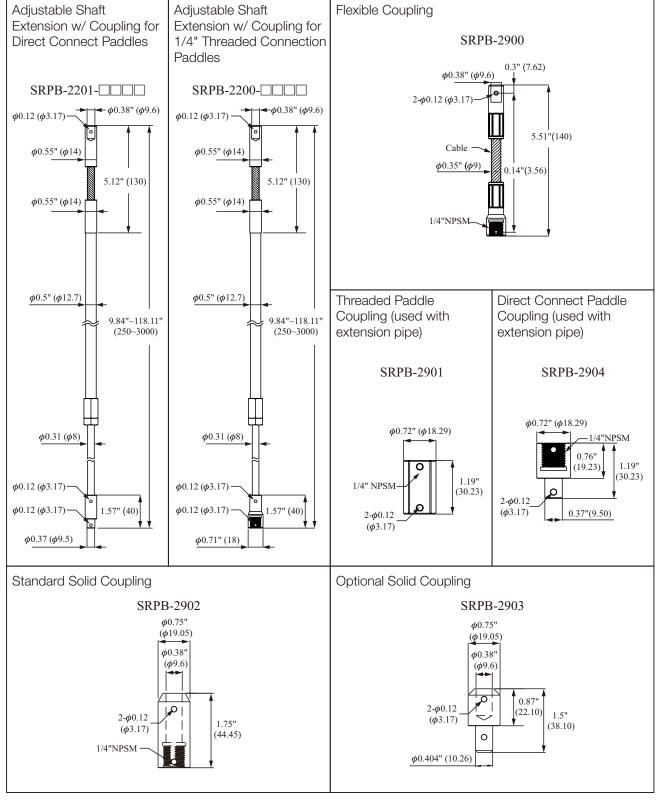


# PADDLES - DIRECT CONNECT ATTACHED TO CABLE (FOR ALL CABLE, AND CABLE & HIGH TEMP. SRP TYPES)

Material of construction: 304SS

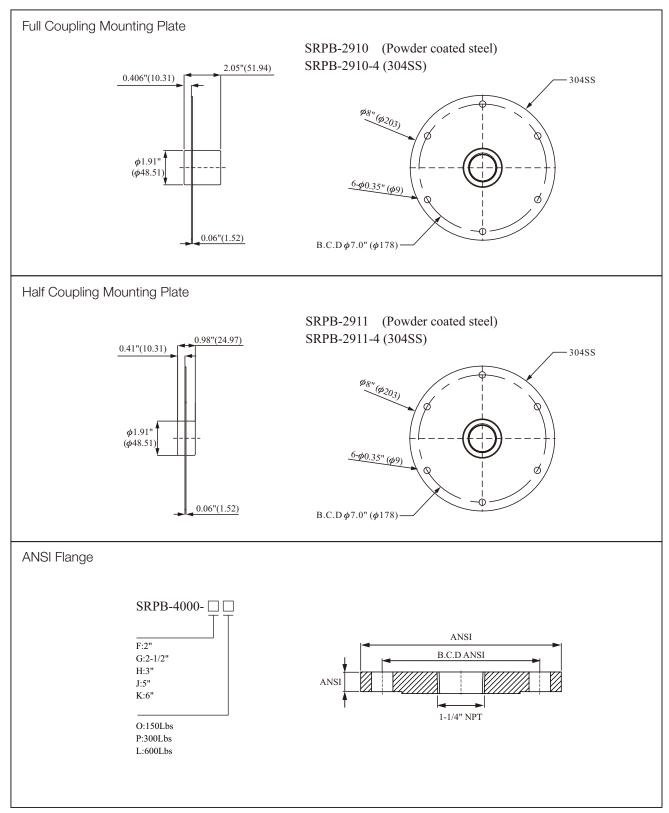


# TYPES OF COUPLING ACCESSORIES Material of construction: 304SS

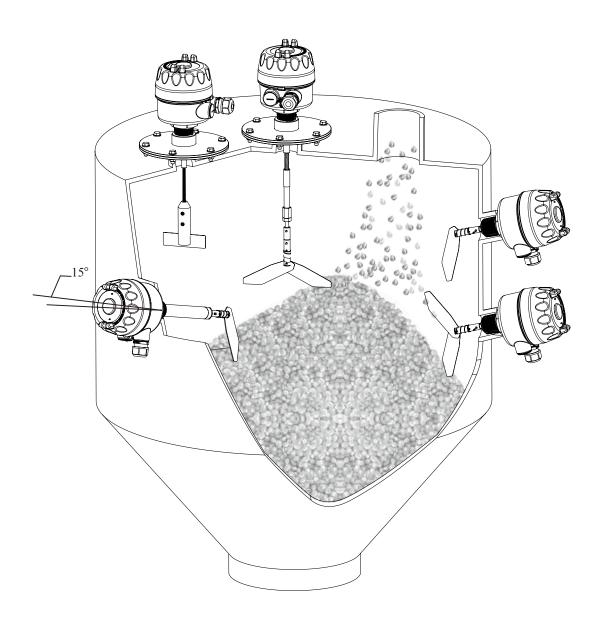


# **TYPES OF FLANGE ACCESSORIES**

# Material of construction: 304SS



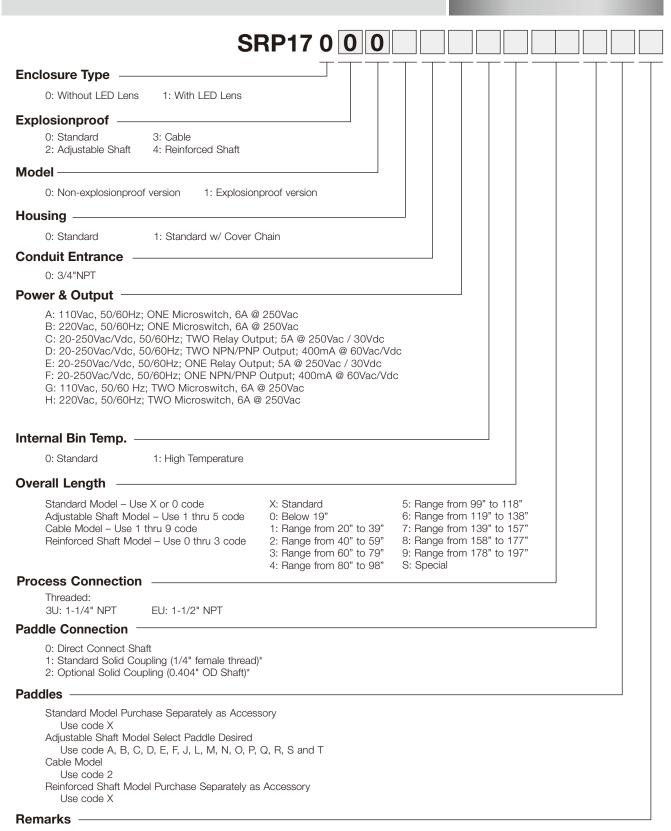
# **INSTALLATION**



# **NOTES**

- For side mount installation do not install where paddle and shaft will be in the direct flow stream of incoming material during filling.
- Conduit opening should always be positioned downward with conduit or cable connection tight and sealed to prevent ingress of moisture through conduit/cable connection.
- Always disconnect power from unit power source before opening enclosure or prior to initial installation.
- Consult factory when internal bin environment may be highly corrosive to aluminum process connection. Stainless steel or other material for the process connection may be available.
- Ensure that the internal bin and ambient temperatures do not exceed the unit specifications.

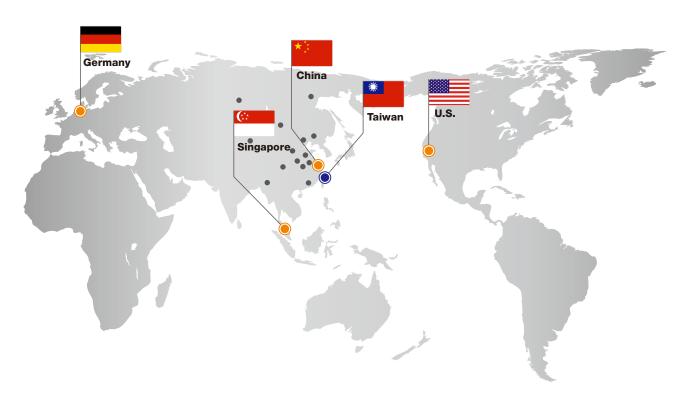
# **ORDER INFORMATION**



Specify exact length required for Adjustable Shaft, Cable and Reinforced Shaft Models.

<sup>\*</sup> Select Paddle Connection 1 for use with Aplus, BlueLevel, BinMaster and Monitor threaded paddles and accessories. Select Paddle Connection 2 for use with Bindicator brand paddles and accessories.

# Global Network



#### Asia

## Taiwan

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