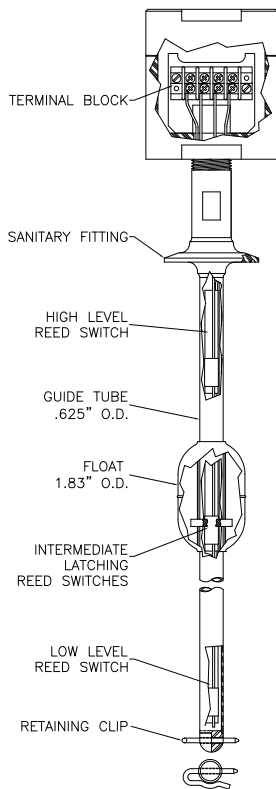


## Specification Data Sheet

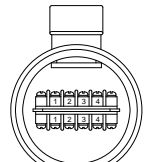
### Sanitary Unifloat

#### DESCRIPTION

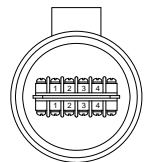
The AMETEK 7024 Sanitary Unifloat level sensing system has been developed to meet the special requirements of the dairy and food processing industries for CLEAN IN PLACE (CIP) operations. When supplied with 316 stainless steel housing, units are 3A certified.



TOP VIEW OF CAP



CPVC HOUSING W/CONDUIT ADAPTER



STAINLESS STEEL HOUSING W/CONDUIT ADAPTER

- 316 stainless steel float, guide tube and sanitary fitting.
- Pressure tight weatherproof 316 stainless steel housing, CPVC housing is optional.
- 2" to 6" sanitary fittings that mate to the standard sanitary (welding) ferrule on the tank.
- Up to 7 Reed Switches suspended at any desired operating levels within the operational range of the guide tube. Two types of patented magnetically latching reed switches are available.



#### Operating Viscosity:

Up to 1500 cP  
(Centipoises)  
Up to 6000 SSU  
(Saybolt universal seconds)

#### Operating Pressures:

Minimum: Vacuum to 14.7 psi  
Maximum: 500 psi to 3450 kPa

#### Operating Temperatures:

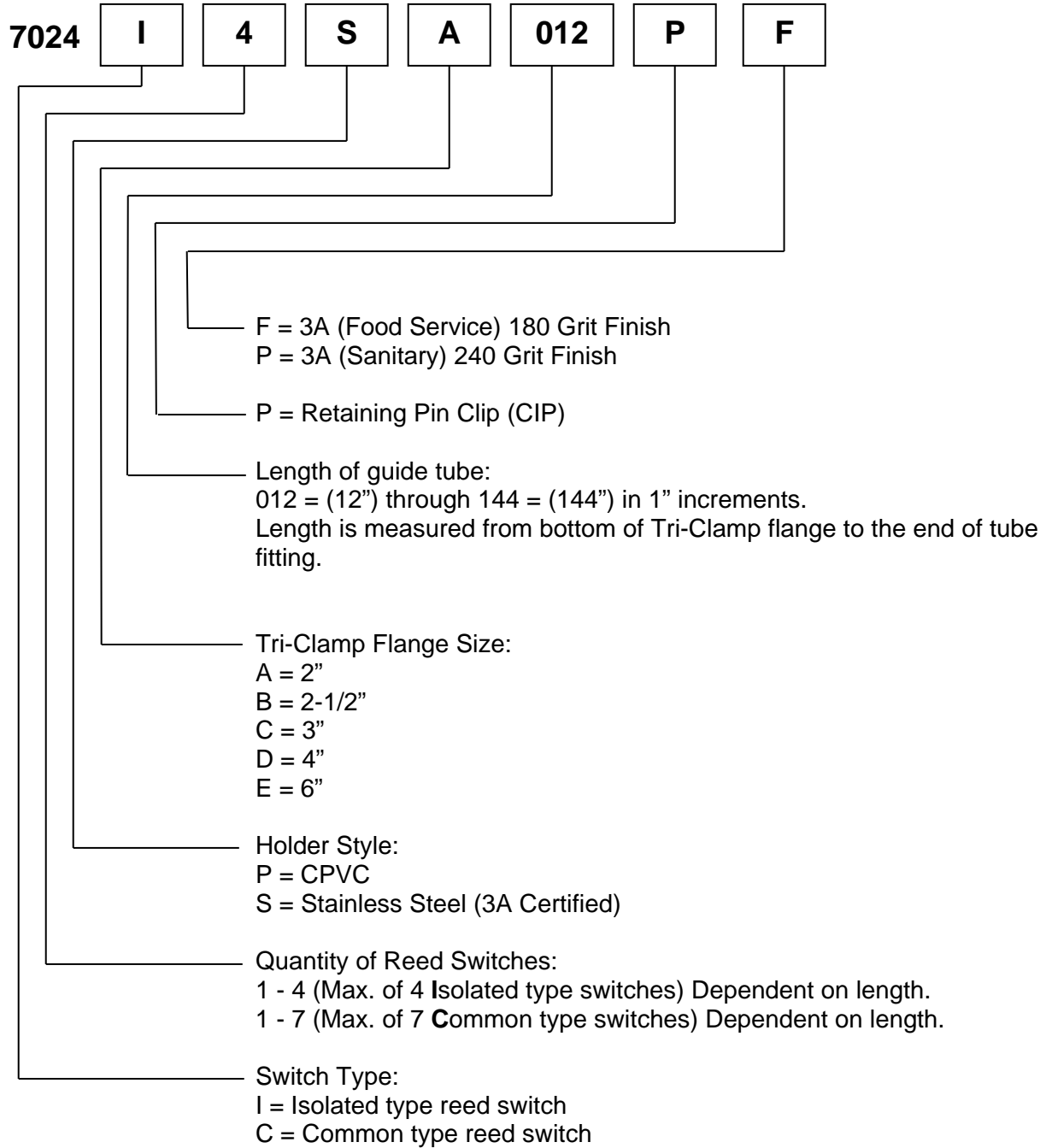
##### Stainless Steel holder

Minimum: 0°F (-19°C)  
Maximum: 250°F (121°C)\*

##### CPVC holder

Minimum: 0°F (-19°C)  
Maximum: 180°F (82°C)\*

## CATALOG NUMBER ORDERING INFORMATION

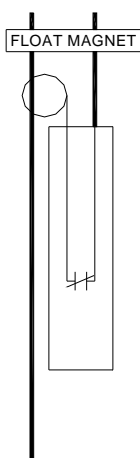
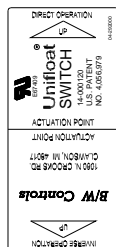
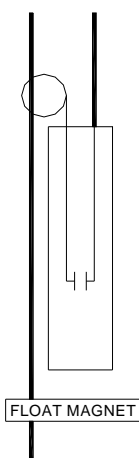


## CHOICE OF TWO REED SWITCHES

### CONTACT RATINGS

MAXIMUM VOLTS	MAX CURRENT	
	AC	DC
25	440ma	400ma
50	220ma	200ma
120	90ma	80ma

### REED SWITCH TYPE



#### TYPE C REED SWITCH

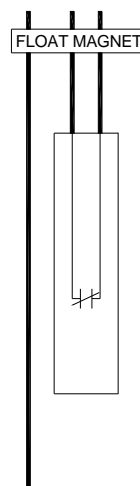
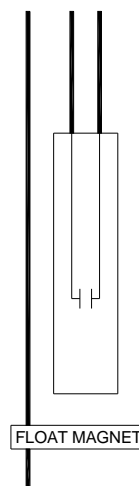
Part # 14-000100

**One lead with grounded contact**

Common side of each switch must connect to the grounded side of the same power supply.

Ideal for use with B/W control relays.  
(Separate ground must be supplied to CPVC housing when used.)

*Switch attaches to the common wire with a spring clip.*



#### TYPE I REED SWITCH

Part # 14-000120

**Two leads with isolated contact**

Individual switches can be used in different circuits.

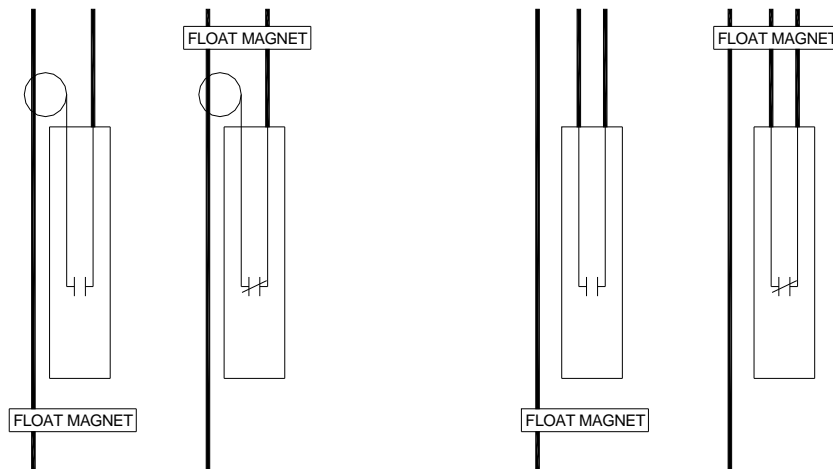
Allows greater flexibility on applications using conventional relays and devices.

*Attaches to the common wire with plastic tape.*

## REED SWITCH OPERATION

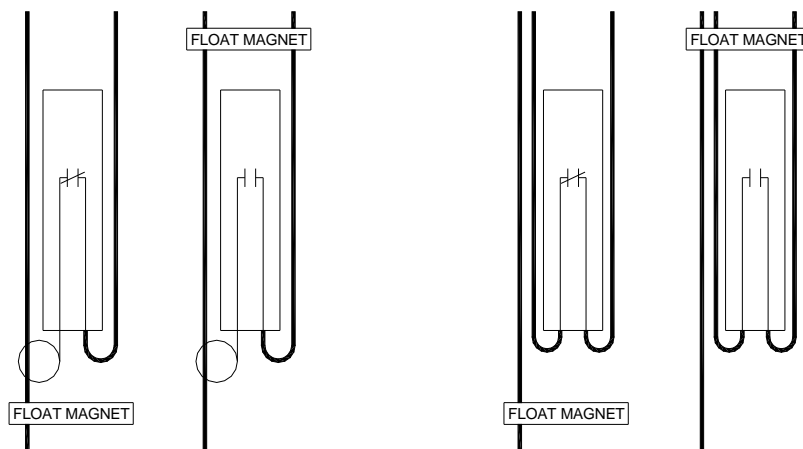
### DIRECT OPERATION

The reed switch contact is **NORMALLY OPEN** and **CLOSES ON RISING LEVEL**. With the float magnet below the switch actuation point, the contact is open until the rising level causes the float to rise to the actuation point. The contact then closes and because of the patented B/W magnetic latching feature, it will remain closed until falling level brings the float back down and past the actuation point.



### INVERSE OPERATION

The reed switch contact is **NORMALLY CLOSED** and **OPENS ON RISING LEVEL**. With the float magnet below the switch actuation point, the contact is closed and because of the patented B/W magnetic latching feature, it will remain closed until rising level brings the float to rise past the actuation point.



## SWITCH WIRING CHARTS

### TYPE “C” REED SWITCH

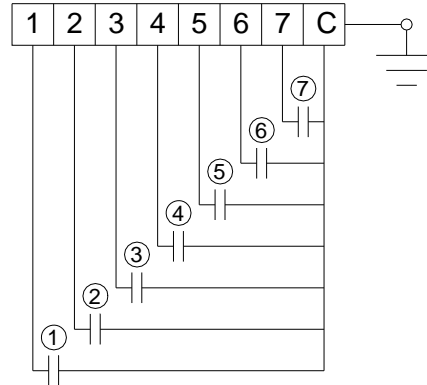
(All contacts have common ground)  
Maximum rating 10 watts at 120 volts AC or DC.

#### BARRIER TERMINAL BLOCK IN HOLDER

No. 6 Screw - Saddle Clamp  
Max. Wire Size: #14 AWG

#### ONE LEAD WITH GROUNDED CONTACT

Up to 7 switches  
Common side of each switch must connect to grounded side of the same power supply.



SWITCH NO.	LEAD WIRE COLOR	TERMINAL NO.	FUNCTION	SWITCH OPERATION		SET LENGTH (INCHES)
				DIRECT	INVERSE	
7	VIOLET	7				
6	BLUE	6				
5	GREEN	5				
4	YELLOW	4				
3	ORANGE	3				
2	RED	2				
1	BROWN	1				

**NOTE:** Switches are installed with No. 1 as the lowest in the guide tube and working upward using the required number of switches.

### TYPE “I” REED SWITCH

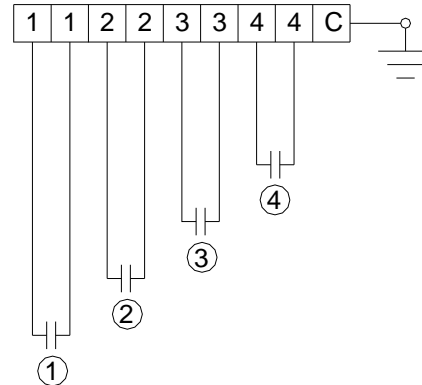
(All isolated contacts)  
Maximum rating 10 watts at 120 volts AC or DC.

#### BARRIER TERMINAL BLOCK IN HOLDER

No. 6 Screw - Saddle Clamp  
Max. Wire Size: #14 AWG

#### ONE LEAD WITH GROUNDED CONTACT

Up to 4 switches  
Individual switches can be used in different circuits.



SWITCH NO.	LEAD WIRE COLOR	TERMINAL NO.	FUNCTION	SWITCH OPERATION		SET LENGTH (INCHES)
				DIRECT	INVERSE	
4	YELLOW	4				
3	ORANGE	3				
2	RED	2				
1	BROWN	1				

**NOTE:** Switches are installed with No. 1 as the lowest in the guide tube and working upward using the required number of switches.

## DIMENSIONAL INFORMATION

