

RSF50 SERIES

COMPACT INTERNAL FITTING VERTICAL



RSF50 series are compact vertically mounted devices with a single switch point. Mounting is either from the top or bottom of a tank from the inside, so requires access to the inside of the tank.

Typical applications include vending machines, printing systems and chemical dosing equipment.

These can be manufactured in a variety of plastics, with a choice of gasket materials, to suit most commonly used liquids.

The switch action may be reversed by removing the float, inverting it, then refitting to the stem.

Available with M12 x 1.75 or 1/8" NPT mounting threads.

Features

- Compact design
- Available in Nylon, Polypropylene, PPS & PVDF
- 25VA & 100VA versions
- Many variants are UL recognised components File No. E171218
- WRAS and NSF approved versions
- 1/8" NPT and M12 thread options

SPECIFICATIONS

Technical

| | RSF53 | RSF54 | RSF58 | RSF56 | RSF57 |
|--------------------------------|----------|--------------------------------|------------------------------|---------------------------------|-----------------------------------|
| Material | Nylon | Polypropylene WRAS approved | Polypropylene UL approved | Polyphenylene Sulphide (PPS) | Polyvinylidene Fluoride (PVDF) |
| Colour | Black | Opaque | White | Grey | Green |
| Temp. Range | °C °F | -20/+75 | -20/+100 | -20/+100 | -10/+120* |
| | | -4/+167 | -4/+212 | -4/+212 | +14/+248* |
| Min. Fluid SG | 0.8 | 0.65 | 0.65 | 0.85 | 0.85 |
| Must Close Level (SG=1) | 11.5mm | 15mm | 15mm | 9.5mm | 9.5mm |
| Must Open Level (SG=1) | 22.5mm | 26mm | 26mm | 20.5mm | 20.5mm |

* Maximum temperature requires ETFE cable to be specified, otherwise +105°C.

Electrical

| | | 25W (Y code) | 100W (H code) |
|---------------------------------|----|-------------------------|--------------------------|
| Contact Form | | N/O (N/C) | N/O (N/C) |
| Switching Power Max | VA | 25 | 100 |
| Switching Voltage AC Max | V | 240 | 300 |
| Switching Voltage DC Max | V | 120 | 300 |
| Switching Current Max | A | 0.6 | 1 |

All ratings are for resistive load only.

STANDARD PARTS

| | Material | Temp Range | Max Power | Mounting Thread | Leadouts | Gasket | Approvals |
|----------------------|-----------------|-------------------|------------------|------------------------|------------------|---------------|------------------|
| RSF53H100RC | Nylon | -20°C to +75°C | 100VA | M12 | 100cm PVC 16/0.2 | Nitrile | WRAS |
| RSF53H100R1/8 | Nylon | -20°C to +75°C | 100VA | 1/8" NPT | 100cm PVC 16/0.2 | N/A | WRAS |
| RSF53Y100RC | Nylon | -20°C to +75°C | 25VA | M12 | 100cm PVC 16/0.2 | Nitrile | WRAS |
| RSF53Y100R1/8 | Nylon | -20°C to +75°C | 25VA | 1/8" NPT | 100cm PVC 16/0.2 | N/A | WRAS |
| RSF54H100RC | PP | -20°C to +100°C | 100VA | M12 | 100cm PVC 16/0.2 | Nitrile | WRAS & NSF |
| RSF54H100R1/8 | PP | -20°C to +100°C | 100VA | 1/8" NPT | 100cm PVC 16/0.2 | N/A | WRAS & NSF |
| RSF54Y100RC | PP | -20°C to +100°C | 25VA | M12 | 100cm PVC 16/0.2 | Nitrile | WRAS & NSF |
| RSF54Y100R1/8 | PP | -20°C to +100°C | 25VA | 1/8" NPT | 100cm PVC 16/0.2 | N/A | WRAS & NSF |
| RSF56H050TB | PPS | -10°C to +120°C | 100VA | M12 | 50cm ETFE 19/0.2 | Viton | UL & NSF |
| RSF56H100RC | PPS | -10°C to +105°C | 100VA | M12 | 100cm PVC 16/0.2 | Nitrile | WRAS, UL & NSF |
| RSF56H100R1/8 | PPS | -10°C to +105°C | 100VA | 1/8" NPT | 100cm PVC 16/0.2 | N/A | WRAS, UL & NSF |
| RSF56Y050TB | PPS | -10°C to +120°C | 25VA | M12 | 50cm ETFE 19/0.2 | Viton | UL & NSF |
| RSF56Y050T1/8 | PPS | -10°C to +120°C | 25VA | 1/8" NPT | 50cm ETFE 19/0.2 | N/A | WRAS, UL & NSF |
| RSF56Y100TB | PPS | -10°C to +120°C | 25VA | M12 | 50cm ETFE 19/0.2 | Viton | UL & NSF |
| RSF56Y100RC | PPS | -10°C to +105°C | 25VA | M12 | 100cm PVC 16/0.2 | Nitrile | WRAS, UL & NSF |
| RSF56Y100R1/8 | PPS | -10°C to +105°C | 25VA | 1/8" NPT | 100cm PVC 16/0.2 | N/A | WRAS, UL & NSF |
| RSF57H100GC | PVDF | -10°C to +105°C | 100VA | M12 | 100cm PTFE7/0.2 | Nitrile | UL & NSF |
| RSF57H100G1/8 | PVDF | -10°C to +105°C | 100VA | 1/8" NPT | 100cm PTFE7/0.2 | N/A | UL & NSF |
| RSF57Y100GC | PVDF | -10°C to +105°C | 25VA | M12 | 100cm PTFE7/0.2 | Nitrile | UL & NSF |
| RSF57Y100G1/8 | PVDF | -10°C to +105°C | 25VA | 1/8" NPT | 100cm PTFE7/0.2 | N/A | UL & NSF |
| RSF57H100GB | PVDF | -10°C to +105°C | 100VA | M12 | 100cm PTFE7/0.2 | Viton | UL & NSF |
| RSF57Y100GB | PVDF | -10°C to +105°C | 25VA | M12 | 100cm PTFE7/0.2 | Viton | UL & NSF |
| RSF58H100RC | PP (UL) | -20°C to +100°C | 100VA | M12 | 100cm PVC 16/0.2 | Nitrile | UL |
| RSF58H100R1/8 | PP (UL) | -20°C to +100°C | 100VA | 1/8" NPT | 100cm PVC 16/0.2 | N/A | UL |
| RSF58Y100RC | PP (UL) | -20°C to +100°C | 25VA | M12 | 100cm PVC 16/0.2 | Nitrile | UL |
| RSF58Y100R1/8 | PP (UL) | -20°C to +100°C | 25VA | 1/8" NPT | 100cm PVC 16/0.2 | N/A | UL |

Custom versions can be made for particular applications. Please contact Sensata with your requirements.