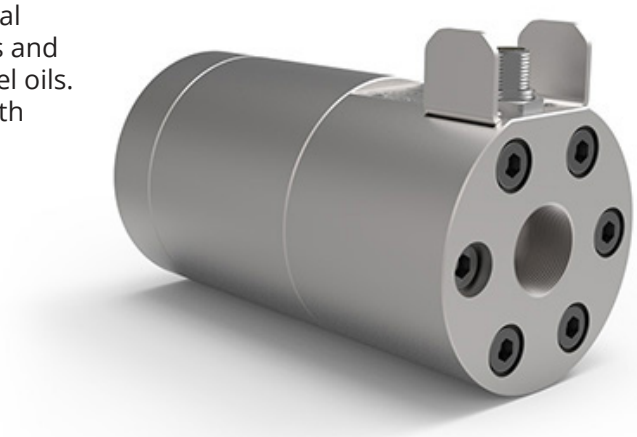
# SRZ-H High Resolution Helical Positive Displacement Flow Meter

## Common Uses

The SRZ-H High Resolution Helical PD Flow Meters are ideal for highly filled and abrasive fluids, such as polyurethanes and polymers, glues and sealing materials, as well as heavy fuel oils. These positive displacement flow meters are equipped with a built in sensor and is capable of maintaining consistent accuracy of ±0.5% despite changing viscosity conditions. Practical applications include:

- Sealant and adhesive dispensing applications
- Paint reclaim and environmental tracking
- Paint circulation and supply



## Technical Specifications

| | |
|---|---|
| Linear Flow Range | 0.1 to 10.6 gpm* |
| Measuring Accuracy | ±0.5% over full range with 30cP fluid** |
| Repeatability | ±0.05% |
| Max. Resolution | 499,000 pulses/gallon \| 132 pulses/cc |
| Max. Operating Pressure | up to 6,000 psi \| 414 bar |
| Fluid Temperature Range | -40 to 158°F \| -40 to 70°C |
| Ports | 3/4" NPT (BSPP optional) |
| Turndown | up to 400:1 |
| Calibration | 7-point logarithmic calibration |

** Optional extended range 0.01 to 2.0 gpm; **Extended range ±1.0% up to 2 gpm with 100cP fluid*

## Materials of Construction

| | |
|---|---|
| Body | 303 Stainless Steel |
| Helical Gears | Stainless Steel (DIN 1.4122) (QPQ coating) |
| Index Gear | Magnet pole wheel |
| O-ring | FKM or PTFE |
| Sleeve Bushing & Shafts | Tungsten Carbide |
| Bolts | Zinc Flake Coated Carbon Steel |

AW-LAKE
PROCESS FLOW MEASUREMENT

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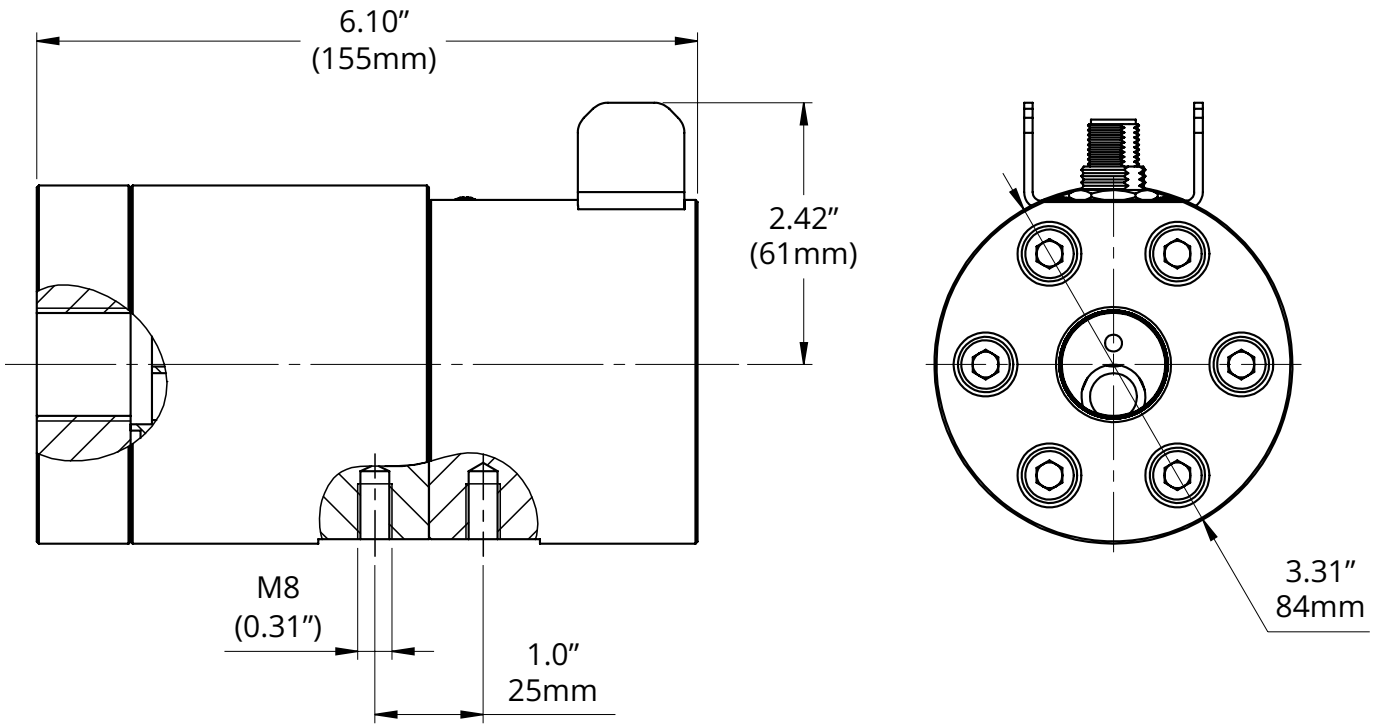
# SRZ-H High Resolution Helical Positive Displacement Flow Meter

## Meter Data

| Meter | Flow Range* | | Resolution | | | Ports | Filtration | Pressure | |
|---|---|---|---|---|---|---|---|---|---|
| | (GPM) | (LPM) | (Impulses/Gal) | (Impulses/L) | (Impulses/cc) | | (microns) | psi | bar |
| SRZ-40-x-H1 | 0.1-10.6 | 0.4-40 | 124,900 | 33,000 | 33 | ¾" NPT | 200 | 6,000 | 414 |
| SRZ-40-x-H2 | 0.1-5.8 | 0.4-22 | 249,800 | 66,000 | 66 | ¾" NPT | 200 | 6,000 | 414 |
| SRZ-40-x-H3 | 0.1-2.9 | 0.4-11 | 499,700 | 132,000 | 132 | ¾" NPT | 200 | 6,000 | 414 |

** Optional extended range 0.01 to 2.0 gpm*

## Meter Dimensions




*3D STEP Models are available upon request of factory.*
*Products may be subject to change without notice. Contact factory for the most up-to-date product information.*

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# SRZ-H High Resolution Helical Positive Displacement Flow Meter

## Part Number Guide

**SRZM – 40 – □ – □ – TC □ – □ □**

**Signal Resolution**
H1 = 1x resolution (33 impulses/cc)
H2 = 2x resolution (66 impulses/cc)
H3 = 3x resolution (132 impulses/cc)

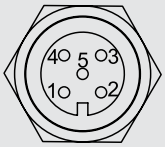
**Flow Range**
S = Standard
E = Extended

**Housing Seal**
V = FKM
T = PTFE

**Port Type**
N = NPT
G = BSPP

**Sensor Options**
N = 2 Frequency outputs
R = Frequency + Direction

## Electrical Specifications

| | | |
|---|---|---|
| Supply Voltage | 12 up to 30 VDC | |
| Frequency Output | Active push pull, square wave signal out max. 20 mA<br>Duty cycle 50% nominal | |
| Electrical Connection | Sensor N:<br>1 = +Supply (12 up to 30 VDC)<br>2 = Output signal A<br>3 = 0V/Ground<br>4 = Output signal B<br>5 = n.c.<br>- All output signals are available simultaneously<br>- Signals 2 and 4 are 90° phase-shifted. | Sensor R:<br>1 = +Supply (12 up to 30 VDC)<br>2 = Direction<br>3 = 0V/Ground<br>4 = Frequency output<br>5 = n.c. |
| Ingress Protection | IP67 when used with IP67 rated mating connector | |
| Connector Pin-Out |  | |

**End-of-Life Disposal:**

At the end of its service life, this product and its associated electronics should **not be discarded with municipal solid waste.** We strongly recommend recycling the unit in accordance with **all applicable local, state, and federal regulations.** Electronic components may qualify as universal waste and should be handled through an appropriate recycling or collection program. Responsible recycling supports our commitment to environmental stewardship under **ISO 14001.**

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