

Helical Gear Flow Meter

Ideal for highly filled and abrasive fluids, such as polyurethanes and polymers, glues and sealing materials, as well as heavy fuel oils.

Applications:

This series of flow meters from AW Gear Meters is a high-resolution answer to your metering needs. Made of stainless steel, the meters in the SRZ series offer wide measuring ranges and low pressure loss.

A helical-gear design gives these meters lower pressure drop compared to other meters and ideal for metering high viscosity polyurethanes, polymers, glues, sealants, and heavy fuel oils.

AW Gear Meters offers these specialized helical gear flow meters suitable for a variety of industrial applications, including:

- Sealant / Adhesive Dispensing Applications – Single and Multi-Component
- Paint Reclaim and Environmental Tracking
- Paint Circulation / Supply
- Paint Spray Operations-High Solids / Filled Materials
- Material Manufacturing – Monitoring / Batching
- RIM Applications

Benefits:

AFFORDABLE AND ACCURATE

This meter has the ability to maintain consistent accuracy despite changing viscosity conditions, with accuracy of $\pm 0.5\%$ of reading.

RUGGED CONSTRUCTION

The SRZ's solid meter construction is made of 303 stainless steel with tungsten carbide bearings for corrosion resistance and durability. Optional hard-coat gear offerings available.

FLEXIBLE

May be used with a wide range of materials and viscosities with a low pressure drop than conventional meters and wide flow range/size selection. Models offered with either BSPP or NPT threaded ports.

PROVEN RELIABILITY & PERFORMANCE

With a proven industry record for reliable meter life and electronics, these meters are ready to be installed into your process today.



Technical Specifications:

- **Five flow ranges:**
0.003 to 1 gpm
0.01 to 4 gpm
0.1 to 11 gpm
0.25 to 26 gpm
1 to 105 gpm
- **Turn down ratio:** over 1:100
- **Working pressure:** up to 6,000 psi
- **Accuracy:** $\pm 0.5\%$ of reading
- **Repeatability:** $+0.1\%$
- **Max Fluid Temperature:**
Depends on sensor used, refer to sensor technical guide
- **Line sizes:** from $\frac{1}{4}$ " to $1\frac{1}{2}$ "
- **Porting:** NPT and BSPP available

Materials of Construction:

- **Body:** 303 Stainless Steel
- **Internals:**
Stainless Steel DIN 1.4122
Tungsten Carbide
303 Stainless Steel
316 Stainless Steel
- **Seals:**
PTFE standard (FKM also available)

Helical Gear Flow Meter

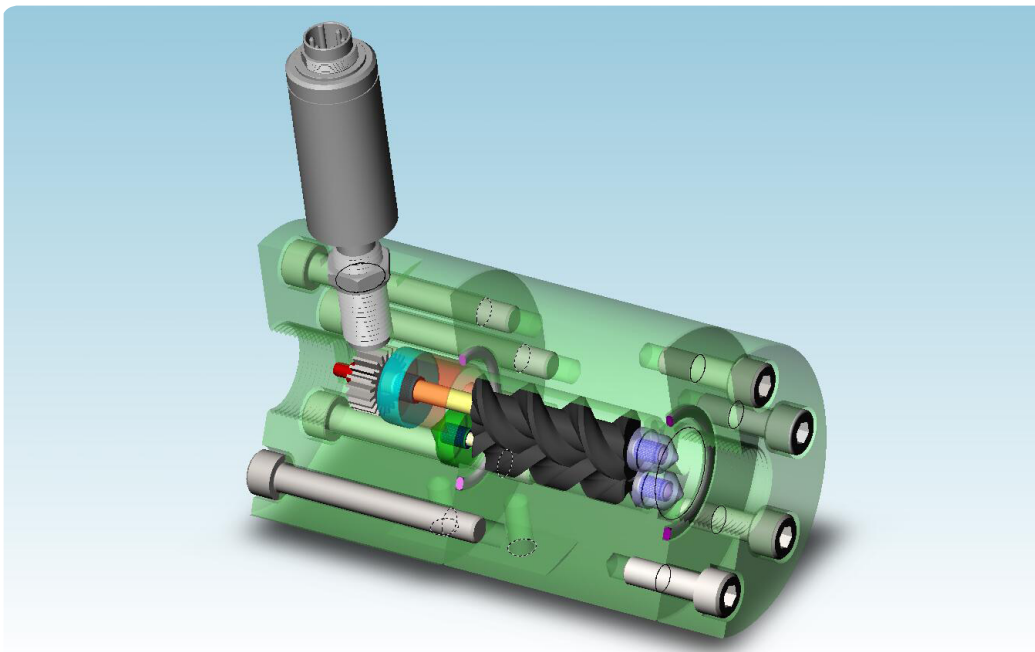
Meter Data:

Meter Size	Flow Range (gpm)	Nominal K-Factor* (pulses/gal)	Port (NPT or BSPP)	Filtration (micron)	Diameter (inches)	Length (inches)	Weight (Lbs)	Pressure Rating
SRZ-10-xx	0.003 - 1.0	62,500	1/4"	200	2.3"	4.0"	5.0	6,000 psi
SRZ-20-xx	0.01 - 4.0	34,500	1/2"	300	3.0"	4.9"	9.0	6,000 psi
SRZ-40-xx	0.1 - 11.0	13,300	3/4"	300	3.4"	6.1"	14.0	6,000 psi
SRZ-100-xx	0.25 - 26.0	3,230	1"	300	4.4"	8.7"	32.0	6,000 psi
SRZ-400-xx	1.0 - 105	810	1-1/2"	300	5.25"	12.5"	70.0	6,000 psi

xx= B1 for NPT port thread, B2 for BSPP thread

* A calibration sheet accompanies every meter sold with specific K-factor. K-factors shown are pin 4 double frequency output value.

Products may be subject to change without notice - Contact factory for the most up-to-date product information.



Recommended Sensors:

Sensor Type	Model	Sensor Features
Frequency Output; 5-pin screw-on connector	VTER/P	Works with SRZ-10, SRZ-20, SRZ-40
Frequency Output; 5-pin screw-on connector	VTEK/P	Works with SRZ-100, SRZ-400

Contact AW Gear Meters:

toll-free:
800-850-6110

fax:
262-884-9810

email:
awinfo@aw-lake.com

website:
www.awgarmeters.com