SRZ-TC Helical Positive Displacement Flow Meter

Common Uses

SRZ-TC helical PD flow meters with tungsten carbide sleeve bushings were designed for measuring high viscosity, abrasive, and filled fluids as well as lubricating and non-lubricating fluids. Temperature fluctuations and the resulting change in viscosity of the fluid only marginally affect the measuring accuracy of these helical gear flow meters. Practical applications include:

- · Polyurethanes and polymers
- · Adhesives and sealants
- · Petrochemical products
- · Light and heavy fuel oil



Technical Specifications

3 Flow Ranges	0.1 to 10.6 gpm 0.26 to 26.4 gpm 1.1 to 105.7 gpm				
Measuring Accuracy	±0.5% over full range with 30cP fluid				
Repeatability	± 0.05%				
Max. Resolution	32,247 pulses/gallon 3.5 pulses/cc				
Max Operating Pressure	4,500 psi 315 bar				
Fluid Temperature	-40°F to 302°F (-40°C to 150°C)				
Ports	NPT standard, BSPP optional				
Turndown	100:1				
Calibration	7-point logarithmic calibration				

Materials of Construction

Body	303 Stainless Steel or 316L Stainless Steel				
Helical Gears	Stainless Steel (DIN 1.4122) (QPQ coating)				
Index Gear	Stainless Steel (DIN 1.4122)				
O-ring	FKM or PTFE				
Sleeve Bushing & Shafts	Tungsten Carbide				
Bolts	Zinc Flake Coated Carbon Steel				

Output Options

Choose from a wide variety of pickups, sensors, monitors, and controllers to pair with your gear meter:

- Frequency
- Analog (voltage or 4-20mA)
- · Battery, loop, or DC powered displays



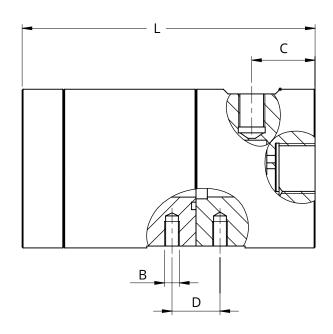
SRZ-TC Helical Gear Flow Meter

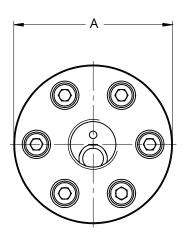
Meter Data

Meter Size	Flow Range		Resolution			Ports	Filtration	Pres	sure
	(GPM)	(LPM)	(Impulses/Gal)	(Impulses/L)	(Impulses/cc)		(microns)	(psi)	(bar)
SRZ#-40TC	0.1-10.6	0.4-40	32,247	3,500	3.5	¾" NPT	200	4,500	315
SRZ#-100TC	0.26-26.4	1.0-100	3,214	850	0.85	1" NPT	300	3,600	250
SRZ#-400TC	1.1-105.7	4.0-400	810	214	0.214	1½" NPT	300	2,900	200

^{# -} Complete part # by selecting body material as follows: M=303 Stainless Steel, S=316 Stainless Steel.

Meter Dimensions





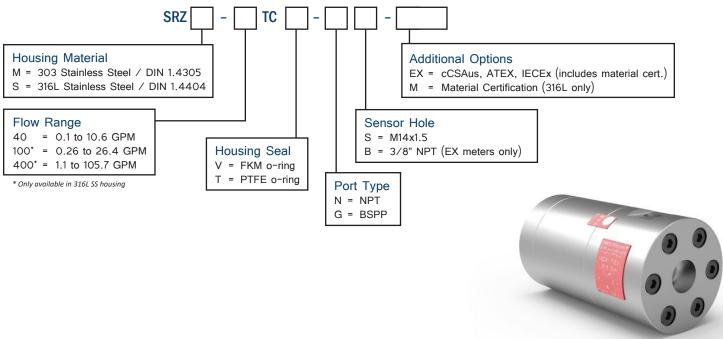
Meter Size	Dimensions					Weights	
	А	В	С	D	L	(Lbs)	(Kg)
SRZ#-40TC	3.4" (85mm)	M8	1.3" (33.5mm)	1.0" (25mm)	6.1" (155mm)	13.7	6.2
SRZ#-100TC	4.3" (109mm)	M10	2.1" (53mm)	1.7" (44mm)	8.7" (221mm)	33.1	15.0
SRZ#-400TC	5.3" (134mm)	M12	2.4" (60mm)	3.2" (80mm)	12.5" (318mm)	75.0	34.0

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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Part Number Guide



Electronics Options

AW-Lake offers a wide selection of Sensors/Pickups and Monitors/Controllers to optimize flow measurement and deliver your flow data where you need it and in the format you need it:

- Analog (Voltage & 4-20mA available)
- Frequency
- · Modbus®
- · HART®
- · Bluetooth®
- Electronic Displays (Local & Remote Mount)
- · Certified Units (UL, cCSAus, ATEX, IECEx)
- Wireless Monitoring (Radio Frequency)

Refer to website for more information.



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