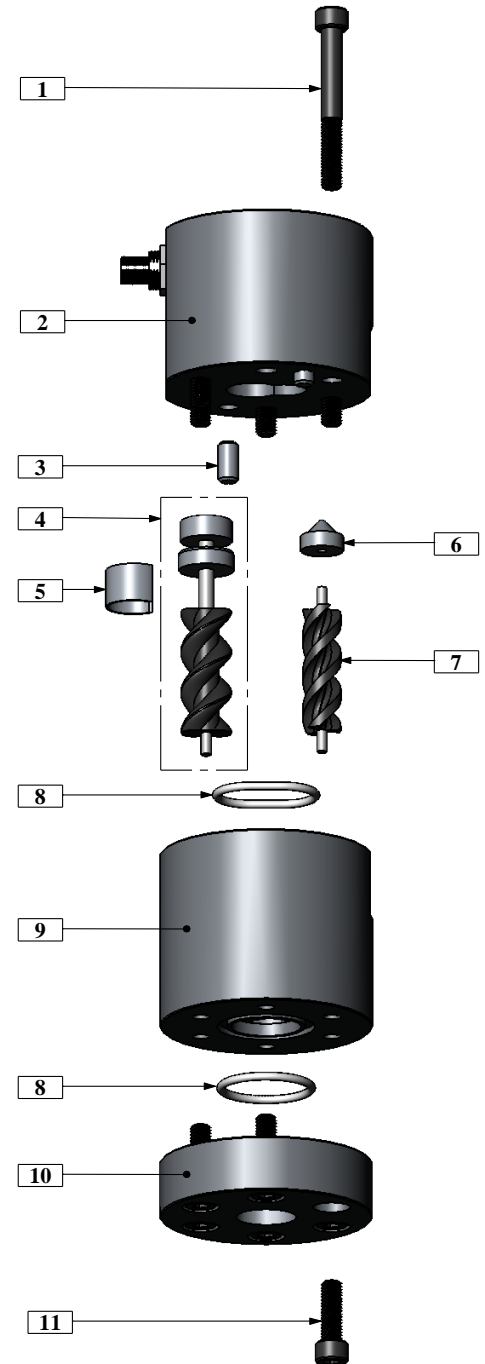


Maintenance Guide for SRZ-40 High Resolution Series Flow Meters

Cleaning, inspecting or repairing a SRZ-40 High Resolution Series flow meter is easily accomplished by following the procedures below. Read through the entire procedure prior to disassembling the meter.

1. Loosen the M8 Bolts [1] using a 6mm hex key. Remove the bolts, but keep the 2 opposing bolts near the Locating Pins (3) engaged by a few threads to avoid stress on the shafts and the locating pins during housing separation. **Please note the orientation of the Outlet Housing [2] and Middle Housing [9] with respect to each other so that the meter is reassembled the same way.**
2. Lay the meter horizontally on its side. Holding the Outlet Housing [2] gently tap on the 2 bolts with a hammer. Alternating between the 2 bolts will **separate the housings evenly** as to not put excessive stress on the internal components. Once the housings have started to separate, remove the 2 bolts and carefully pull the housings apart straight and evenly until you have cleared the Male and Female Gears. Taking your time during this process will ensure the internal components are not inadvertently damaged. **Do NOT use chisels, screwdrivers to split and pry apart the housings. This can cause damage to the meter bodies and meter internal parts.**
3. Remove the M8 Bolts [11]. There are no Locating pins keeping the Inlet Housing [10] in place, so the housing will separate once the bolts are removed. If the housing does not come off, follow steps 2 & 3 to separate the Inlet Housing [10] from the Middle Housing [9].
4. Remove the O-Rings [8].
5. After separation, remove, clean and inspect the Male Gear Assembly [4], the Female Gear Assembly [7], the Spacer Sleeve [5], the Sleeve Bearing Assembly [6] and the housings, [2], [9], & [10]. **Do Not submerge Housing w/ integrated sensor [2] into fluid for cleaning. This will damage the integrated sensor and connector. Wipe clean only.**
6. After cleaning all parts completely, replace the O-Rings [8]. PTFE O-rings should always be replaced.
7. Partially reinsert the Male Gear Assembly [4] & Spacer Sleeve [5] into the Outlet Housing [2].
8. Next insert the Sleeve Bearing Assembly [6] into the housing.
9. Insert the Male Gear Assembly and Spacer Sleeve the remaining distance into the housing.
10. Insert the Female Gear Assembly [7] straight so the shaft slides into the Sleeve Bearing. Rotate the Male Gear Assembly if necessary so the two gears mesh properly.
11. Slide the Middle Housing [9] over the gears. During reassembly keep the meter housings as parallel as possible. Make sure the housings are orientated the same way they were prior to disassembly. Do not force the housing over the gears.
12. Replace the Bolts [1]. Torque the bolts to 41Nm (approx. 30 ft/lbs). Do not force the meter housings together. Do NOT use a hammer or other such device. Over tightening will not cause damage to the meter, but may fatigue the bolts and/or restrict the operation if internal surfaces are not completely clean.
13. Replace the Inlet Housing [10] and Bolts [11]. Torque the bolts to 41Nm (approx. 30 ft/lbs).
14. **IMPORTANT: Do not try to remove the individual components for either the Male or Female gear assemblies [4] & [7]. This includes the shafts on both and the bearings on the Male. They are not meant to come apart and disassembly will void any warranty. It is not necessary to remove the Locating Pins [3] or electrical connector located on the Outlet Housing [2].**



**** See Page 2 for important notes concerning handling.**

Cross Reference Guide for SRZ-40 High Resolution Spare Parts

Part - Qty. per meter [Drawing Ref. #]	SRZ-40ST.HR.T-B1 (3/4" NPT(F) Ports)	SRZ-40ST.HR.T-B2 (BSPP(F) Ports)
Outlet Housing - 1 [2]	SB-401-HR	SB-402-HR
Middle Housing - 1 [9]	MB-40	
Inlet Housing - 1 [10]	CE-401	CE-402
Male Gear Assembly - 1 [4]	GR-40M-HR	
Female Gear Assembly - 1 [7]	GR-40F	
Spacer Sleeve - 1 [5]	BS-40	
Sleeve Bearing Assembly - 1 [6]	BFO-40	
Locating Pins - 2 [3]	LP-40	
PTFE O-Rings - 2 [8]	COT-SRZ-40	
Housing Screws - 6 [1]	M865	
Housing Screws - 6 [11]	M825	

Note 1: Do not submerge the housing with the integrated sensor into any fluid for cleaning. This may damage the sensor electronics. Wipe clean only.

Note 2: The index ring on the male gear is a multi-pole magnet. Care must be taken to keep this magnet away from any ferrous materials and/or other magnets as the magnetic poles on the index ring could become demagnetized, resulting in a loss of pulses.