



FILL-RITE®

A GORMAN-RUPP COMPANY

PRECISION METER TECHNICAL DATA SHEET

MODELS: TS15CV03, TS15CV04, TS15CV06, TS15CV07
TS15CV09, TS15CV11, TS15CV13, TS15CV17

MECHANICAL FLOW METERS

TS series oval gear positive displacement precision meters offer weights and measures accuracy for fluid custody transfer. The patented “Wave Form” oval gear design provides smooth and accurate operation in the meters using only two moving parts. This package matches a TS10 or TS15 precision meter to a mechanical register. Refer to Precision Meter Technical Manual or Precision Meter Price book for a complete list of options.

SPECIFICATIONS

CAPACITY WITH STANDARD LV ROTORS STANDARD 5:1 TURN-DOWN Industrial 30:1 TURN-DOWN	
To 1500 SSU visc. (300cP)	60 gpm (230 lpm)

PRESSURE RATING	
Meter	150 PSI at 100°F = 10 BAR at 40°C

TEMPERATURE RATING	
Meter	-15°F to +180°F = -26°C to +80°C
MID Approval	-13°F to +131°F = -25°C to +55°C

VISCOSITY	
With LV Rotors	100% capacity to 1,500 SSU (300 cP)
With HV Rotors	100% capacity to 5,000 SSU (1000 cP)

CONNECTIONS	
Standard	1 ½" Bolted companion flanges with NPT or BSP port
Optional	Bolted welding flanges
	Bolted 150# RF ANSI adaptors, carbon steel

SAFETY APPROVALS	
CE, ATEX	Meter Only

Pulse Resolution	10:1	100:1
1/10 gallon register	10 Pulses Per Gallon	10 Pulses Per Gallon
1/10 liter register	10 Pulses Per Liter	10 Pulses Per Liter

Pulsar	
Optional	10:1 dry reed on mechanical register
	100:1 solid state on mechanical register

MATERIALS	
Case	Anodized Aluminum
Gears	PPS with carbon bearings PTFE bearings optional
Posts	Hard Chromed Stainless Steel
Seals	Viton™ standard, PTFE optional
Flanges	Anodized Aluminum



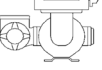


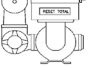

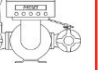

MEASUREMENT APPROVALS	
NTEP	99-210
MID	GB-1366
Measurement Canada	AV-2360

REGISTRATION, SIGNALS, & ACCESSORIES

MECHANICAL REGISTERS	
Register	#7887 standard (5 digit reset & 8 digit totalizer)
	#7886 standard (5 digit reset & 8 digit totalizer)
Register Volume	1/10 gallon or 1/10 liter standard 1/10 gallon or whole liter optional
Preset Counter	#7889 2-stage shut-off, optional micro switch kit in X-Prf enclosure
Ticket Printer	#7888 Zero Start standard, accumulative optional

Accessories	
Inlet strainer for flow meter protection	
Air eliminator mounted on strainer	
Backpressure valve for enhanced air elimination on trucks	
Air check valve on flow meter outlet side	
Mechanical preset valve and electronic preset and system	

MODEL NUMBER SPECIFICATIONS

TS	Series										
15	Size	Nominal Capacity	GPM	GPH	lpm	m³/h					
	1 1/2"	40 mm	60	3,600	230	14					
C	316 Stainless Steel										
Assembly Number	V03	V04	V05	V06	V07	V09	V11	V13	V17		
											
	Meter Only - No Register (Register Ready), Calibrator, RAD Adaptor, No Ratio Gear Plate (Distributor to Add)	Meter Only - Calibrator, RAD Adapter, Ratio Gear Plate & Register	Calibrator, RAD Adaptor, Ratio Gear Plate, Register, Strainer & Air Eliminator	V04 + Zero Start Ticket Printer	V06 + Zero Start Ticket Printer	V04 + 2-Stage Preset Counter & Preset Valve	V06 + 2-Stage Preset Counter & Preset Valve	V06 + 2-Stage Preset Counter & Preset Valve	V06 + 2-Stage Preset Counter, Preset Valve & Zero Start Ticket Printer		
Flange	A			B			C				
	NPT			BSP			150# ANSI Adaptors				
Register Calibration	T		U	G	I	Y	L				
	Mechanical Register		1/10 US gallons	1/10 IMP gallons	1/1 US gallons	1/1 IMP gallons	1/10 liter	1/1 liter			
Pressure Rating	C										
	150 PSI (10 BAR)										
Rotor & Bearing	B		I		C		J				
	Type		LV		HV		LV		HV		
	Materials		PPS		PPS		PPS		PPS		
	Bearings		Carbon		Carbon		PTFE		PTFE		
Drive	M										
	Mechanical										
Pulser	X			D			S				
	None			10:1 dry reed			100:1 solid state				
Seals	A					B					
	Viton™ (std. in Anodized Aluminum Models)					PTFE (std. in SS, opt in AA)					
Strainer	S					H					
	90° Strainer					High Capacity					
Basket Mesh	4					2					
	40 Mesh Basket (std. with LV and HT rotors)					20 Mesh Basket (with HV rotors)					

TS15CV04

