

MODELS 700-15 TO 700-65

TCS 700 Series Rotary PD Flow Meters

Rotary positive displacement meters with three rotors turning in unison and no metal to metal contact in the chamber. Nine sizes with maximum capacities from 227 to 3,800 L/min, with housings and seals matched to the fluid.



3,800 L/min

Largest model, 700-65

±0.15%

Linear accuracy capability, full flow range

10.5 bar

Standard working pressure (150 psi)

Key features

- Three rotor design with no metal to metal contact in the chamber
- Bi-directional flow
- Measures liquids up to 325,000 cP
- Mechanical 5 or 6 wheel registers or TCS 3000 electronic register
- Pulse transmitters, air eliminators and control valves available
- Higher pressures and temperatures on request from the factory

Technical data

SPECIFICATION	VALUE
Max capacity by model	700-15 227, 700-20 380, 700-25 567, 700-30 760, 700-35 1,135, 700-40 1,893, 700-45 2,271, 700-60 3,040, 700-65 3,800 L/min
Linear accuracy	Capable of $\pm 0.15\%$ over the full flow range
Repeatability	Capable of 0.02%, constant conditions, 700SP meters with mechanical register, 1 cP test fluid
Working pressure	150 psi (10.5 bar)
Working temperature	-40 to 71 °C
Connections	NPT flange standard, 1.5 in (700-15) to 4 in (700-40, 700-45). 6 in ANSI flange on 700-60 and 700-65. BSPT, slip weld and ANSI on request
Viscosity	Up to 325,000 cP
SP and SPA types	Refined petroleum: petrol, diesel, biodiesel, kerosene, fuel oils, motor oils. SPA adds aviation gasoline and jet fuel
Other types	SPD ductile iron, AF all ferrous, IP and IC industrial, SS stainless, SSD for DEF and AdBlue, LP for LPG
Housing	Hardcoat anodised aluminium (SP, SPA, IP, IC, LP), ductile iron (SPD, AF), stainless steel (SS, SSD)
Registers	Mechanical V/R 7887 5 wheel or V/R 7886 6 wheel, or TCS 3000 electronic