JV-TC Positive Displacement Gear Flow Meter

Common Uses



JV-TC positive displacement flow meters build upon our 40+ years of excellence in measuring non-lubricating and filled fluids by improving gear/shaft design, increasing pressure ratings, and improving flushability. These improvements, along with the standard 7-point calibration and new EDGE sensor give you a 0.5% accurate meter across the full flow range. Practical applications include:

- Filling and dosing systems
- Paint shops and delivery systems
- Polyurethane systems
- Multiple-component mixing systems
- Adhesive dispensing systems
- Hydraulic systems

Technical Specifications

5 Flow Ranges	0.001 to 20 gpm (across all meter sizes)
Measuring Accuracy	±0.5% M.V. over full range with 30cP fluid, ±0.25% M.V. optional with select sensors
Repeatability	± 0.1%
Temperature Range	-40°F to +356°F | -40°C to +180°C (see sensor datasheet for system temp. range)
Max. Operating Pressure	up to 6,000 psi
Ports	NPT standard, BSPP & bottom manifold mount optional
Turndown	up to 400:1
Calibration	4-point calibration

Materials of Construction

Body	JVM = 303 Stainless Steel or JVS = 316L Stainless Steel
Gears	Stainless Steel (DIN 1.4122)
O-Ring	FKM, FFKM, or PTFE
Bearings & Shafts	Tungsten Carbide
Bolts	Zinc Flake Coated Carbon Steel (Inconel 718 optional)

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

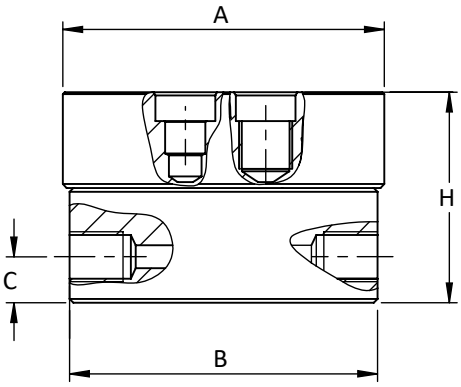
JV-TC Positive Displacement Gear Flow Meter

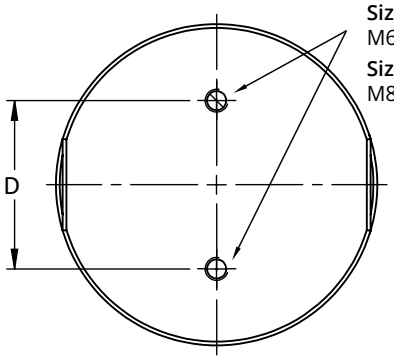
Meter Data

Meter Size	Flow Range			Resolution*		Ports	Filtration	Pressure
	(GPM)	(LPM)	(Gal/Day)	(Impulses/Gal)	(Impulses/CC)		(microns)	(psi/bar)
JV#-10TC	0.001-0.5	0.004-1.9	1.4-720	200,600	53.0	1/4" NPT	120	6,000/420
JV#-12TC	0.005-0.8	0.02-3.0	7.2-1152	106,000	28.0	1/4" NPT	120	6,000/420
JV#-20TC	0.02-2.0	0.08-7.6	28.8-2880	31,800	8.4	1/4" NPT	120	6,000/420
JV#-30TC	0.08-5.3	0.3-20.0	95-6,335	13,200	3.5	1/2" NPT	120	6,000/420
JV#-60TC	0.1-20.0	0.38-75.7	144-28,800	3,600	0.95	3/4" NPT	200	6,000/420

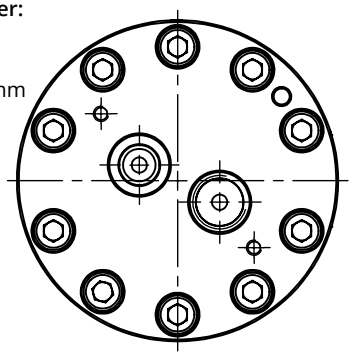
*# - Complete part # by selecting body material as follows: M=303 Stainless Steel, S=316 Stainless Steel. * Figures shown represent resolution when using dual pickup sensor.*

Meter Dimensions





Mounting Holes
Size 30 & smaller:
M6 x 1 x 10mm
Size 60:
M8 x 1.25 x 16mm



Meter Size	Dimensions					Weights	
	A	B	C	D	H	(Lbs)	(Kg)
JV#-10TC	3.0"	2.9"	0.47"	1.7"	2.2"	2.9	1.3
JV#-12TC	3.0"	2.9"	0.47"	1.7"	2.2"	3.6	1.6
JV#-20TC	3.3"	3.2"	0.47"	1.7"	2.2"	4.9	2.2
JV#-30TC	3.3"	3.2"	0.59"	1.7"	2.7"	6.4	2.9
JV#-60TC	5.0"	4.8"	0.75"	2.4"	4.3"	18.8	8.5

End-of-Life Disposal:

At the end of its service life, this product and its associated electronics should **not be discarded with municipal solid waste.** We strongly recommend recycling the unit in accordance with **all applicable local, state, and federal regulations.** Electronic components may qualify as universal waste and should be handled through an appropriate recycling or collection program. Responsible recycling supports our commitment to environmental stewardship under **ISO 14001.**

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.

JV-TC Positive Displacement Gear Flow Meter

Part Number Guide

JV [ ] - [ ] TC [ ] - [ ] [ ] - [ ]

Housing Material
M = 303 Stainless Steel / DIN 1.4305
S = 316L Stainless Steel / DIN 1.4404

Flow Range
10 = 0.001 to 0.5 GPM
12 = 0.005 to 0.8 GPM
20 = 0.02 to 2.0 GPM
30 = 0.08 to 5.3 GPM
60 = 0.1 to 20.0 GPM

Housing Seal
V = FKM o-ring
K = FFKM o-ring
T = PTFE o-ring

Port Type
N = NPT
G = BSPP
B = Bottom Port - Manifold Mount

Sensor Hole
S = (1) M14x1.5 & (1) Unthreaded
B = 3/8" NPT (EX meters only)

Additional Options (choose all that apply)
EX = cCSAus, ATEX, IECEx (includes material cert.) (316L only)
M = Material Certification (316L only)



Offers a wide selection of sensors, pickups, and monitors to optimize flow measurement and deliver data where you need it and in the format you need it.

JV-TC Standard Sensor: EDGE Sensor

EDG2 - [ ] [ ] - [ ] S - [ ]

Pickups
1 = One pickup input
2 = Two pickup input

Output
A = Pulse (no Bluetooth)
B = Analog + 1 Pulse
C = Analog + Pulse + Modbus

Adder Option*
NB = No Bluetooth

Temperature Rating
S = Standard (-40°F to 185°F)

Meter Type
12 = JVx (-10-30) Gear Meter
13 = JVx-60 Gear Meter





Additional Electronics Options:

JV-TC meters are also compatible with a range of other pickups, displays, and controllers for high temperature and EX-rated environments.



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