

FLOW METER SELECTION GUIDE - LIQUIDS



PRODUCT FAMILY/SERIES	SIZES AVAILABLE	FLOW RANGE	NOTABLE SPECS	CALIBRATIONS	TYPE OF METER	CLEAN LIQUID	DIRTY LIQUID (SLURRY)	CORROSIVE	VISCOUS	CRYOGENIC	BI-DIRECTIONAL OPTION
HO LIQUID	1/4" thru 12"	.0625 to 15,000 GPM	+/- .5% linearity	12-point water Cal NIST traceable. HFC can provide water Cals up to 1500 GPM. Higher flow rates are extrapolated. 10" & 12" size meters are Calibrated at Utah or Alden.	Inline axial industrial	✓	✗	!	Up to 300 cST Note 1 ✓	✓	✓
API SERIES CUSTODY TRANSFER	1" thru 4"	6 to 1,500 GPM	+/- .25% linearity (optional +/- .15%)	12-point water Cal NIST traceable. HFC can provide water Cals up to 1500 GPM. Higher flow rates are extrapolated. 10" & 12" size meters are Calibrated at Utah or Alden.	Custody transfer of liquid petroleum products	✓	✗	!	Up to 300 cST Note 1 ?	✓	✓
CT SERIES CUSTODY TRANSFER RIM	4" thru 12"	120 to 15,000 GPM	+/- .15% linearity	12-point water Cal NIST traceable. HFC can provide water Cals up to 1500 GPM. Higher flow rates are extrapolated. 10" & 12" size meters are Calibrated at Utah or Alden.	High performance	✓	✗	!	Up to 300 cST Note 1 ?	✗	✓
MF SERIES - LIQUID	1/2" end connections	.007 to 3.5 GPM	+/- 1% linearity	12-point water Cal NIST traceable.	Low flow	✓	✗	✗	25 cST Maximum ✗	✓	✗
STAR SERIES	1/4 thru 3"	.35 to 650 GPM	+/- 1% linearity	Average K-factor etched on meter housing. K-factor derived from 3 point water Calibration.	Lower cost than HO	✓	✗	✗	✗	✗	✗
LO-CO SERIES	1/4" thru 2"	.45 to 225 GPM	+/- 1% linearity	Average K-factor etched on meter housing.	Lowest cost available	✓	✗	✗	✗	✗	✗
SANITARY SERIES	1/4" thru 3"	.25 to 650 GPM	+/- .5% linearity*	12-point water Cal NIST traceable.	Suitable of pharma, food & beverage	✓	✗	✗	✗	✗	✗
TEFLON SERIES	1/4" thru 3"	.35 to 485 GPM	+/- 1% linearity	12-point water Cal NIST traceable.	Caustic & aggressive fluids	✓	✗	✓	✗	✗	✗
WECO - LIQUID	1" thru 4"	4 to 1,500 GPM	+/- .5% linearity	12-point water Cal NIST traceable.	High pressure oil patch	✓	!	!	✗	✓	✓
GROOVED - LIQUID	1" thru 12"	2 to 12,000 GPM	+/- .5% linearity	12-point water Cal NIST traceable. HFC can provide water Cals up to 1500 GPM. Higher flow rates are extrapolated. 10" & 12" size meters are Calibrated at Utah or Alden.	Low pressure oil patch	✓	!	!	✗	✓	✓
HOG SERIES	1" end connections	.4 - 25 GPM	+/- .25% linearity	12-point Cal at approx. 100 csts.	High viscosity liquids >100 CSTK	✓	✗	✗	✓	✗	✗
HP SERIES - LIQUID	4" line size & larger	.25 to 50 FPS	+/- 1% linearity	12-point water Cal NIST traceable in FPS.	Insertion flow meter	✓	✗	✗	Consult Factory ?	✗	✓
HHP (HIGH PRESSURE) - LIQUID	1/4" thru 2"	.0625 to 275 GPM	+/- .5% linearity*	12-point water Cal NIST traceable.	High pressure flanged	✓	✗	!	Up to 300 cST Note 1 ?	✓	✓
HOSE BARB - LIQUID	1/4" thru 3"	.0625 to 800 GPM	+/- .5% linearity*	12-point water Cal NIST traceable.	Typically used as "quick connect"	✓	✗	!	Up to 300 cST Note 1 ?	✓	✓
AUTOClave - LIQUID	1/4" thru 3/4"	.0625 to 35 GPM	+/- .5% linearity*	12-point water Cal NIST traceable.	High pressure threaded connections. Up to 20,000 PSI	✓	✗	!	Up to 300 cST Note 1 ?	✓	✓
SHORT WAFER - LIQUID	5/8 thru 8"	.2 to 6,400 GPM	+/- .5% linearity	12-point water Cal NIST traceable.	Cost savings flanged meter solution	✓	✗	!	Up to 300 cST Note 1 ?	✓	✗
TRI- FLO - LIQUID	1" thru 2"	4 to 260 GPM	+/- 1% linearity	12-point water Cal NIST traceable.	Insertion, low cost, flow meter	✓	✗	✗	✗	✗	✗
STEAM JACKETED - LIQUID	1/4" thru 3"	.25 to 800 GPM	+/- .5% linearity*	12-point water Cal NIST traceable.	Used on liquid applications where liquids may solidify	✓	✗	✗	✗	✗	✗

Note 1: In-house viscosity calibrations are limited to 100 cST up to 60 GPM. Third party viscosity calibrations are required for flow rated > than 60 GPM and viscosities from 100 to 300 cST.

LEGEND	SUITABLE = ✓	NOT SUITABLE = ✗	APPLICATION DEPENDENT = ?	MAY BE SUITABLE DEPENDING ON METER CONSTRUCTION = !
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* +/- 1.0% linearity on 1/4" meter