



Flow Line Options



MEMFlo “P-72® COPOLYMER” FLOWMETERS

Features & Benefits

- Heavy bodied meters specifically designed for demanding applications including chlorine, hot wet chlorine gas, chlorine dioxide, sodium hydroxide, high pH sodium hypochlorite, and brines.
- Extended flow ranges averaging 25 to 1.
- Flanged or female NPT connection options (flanged connections standard).
- Depending on the service, wetted materials are P-72® Copolymer with titanium, electroless nickel plated T310 stainless, and teflon internals for maximum corrosion resistance.
- Sight tubes may be glass, polysulfone, or P-72 (again, depending on fluid service).
- Offered in transparent tube models for clear fluids or magnetic indication for opaque fluids.
- Disassembles in minutes without removing the meter from the pipeline (pressure should be relieved and lines drained prior to disassembly).
- Most models can be supplied with Flo-Sentry™ and Flo-Guardian™ Alarms, KIST™ 4-20mA Transmitters, Courier™ Remote Systems and other MEMFlo options & accessories.

Specifications

Accuracy: ±2% of 100% flow rating.

Repeatability: ±1/2% of indicated flow rate.

Rangeability: 25 to 1 average.

Materials: All wetted parts (except static “O” ring seal) P-72® copolymer are standard. For special service, there are options with internals of titanium (chlorine service), electroless nickel plated T310 stainless (option for caustic), and teflon. P-72, polysulfone, or glass sight tubes can be ordered.

Scales: Standard direct reading (GPM or LPM Liquid, Sp.

Gr. = 1.00 or SCFM Dry Air @100 psig, 70°F.) or percentage scale. Scales are special corrosion-resistant mylar or polyester materials. Special scales for other flow units or media conditions, are available at extra cost. Scale length is approximately 3.2” for Size 6 meters, 5.2” on Size 12 units.

Pressure Rating: Up to 150 psig for flanged models, or 300 psig, depending on meter type, temperature, and service conditions. Operating limits of P-72 are basically the same as CPVC.

Temperature Rating: Up to 212°F. (pressure ratings decrease at higher temperatures).

How to Order “P-72® Copolymer” Flow Meters

Connections Size	A	BODY Material	FLOW INTERNALS OPTIONS	SIGHT TUBE OPTIONS	CONNECTION OPTIONS	Safety Guard	CAPACITY CODE *	SCALING OPTION	FLUID SERVICE	“O” RING OPTION	OTHER OPTIONS
6 = 3/4" 12 = 1-1/2" 16 = 2" 24 = 3" 32 = 4"	A	A = P-72 copolymer	A = P-72 (std) T = P-72 copolymer with titanium trim (custom) SN = P-72 copolymer with nickel plated T310SS (custom)	U = Polysulfone A = Borosilicate glass in plastic sleeve E = Same material as body (std.)	F = Flanged connection W = Socket weld Blank = Female NPT	G = Safety Guard (std.)	From “100%” flow capacity column	D = Std. direct P = Std. % S = Special M = Multiple	L = Liquid G = Gas	B = Buna N (std.) E = EPDM N = Neoprene S = Silicone T = Teflon V = Viton	T = Std. Teflon Buffer/Bumper Flow alarms, outputs, custom modifications, etc. Please consult Flow Line Options for further details.

For example, a 3” flanged 150 GPM P-72 and glass liquid meter for chlorine dioxide might be: MEMFlo Model 24AATAFG150SLVT

Table 1: "P-72®" Flowmeter Capacities, Gpm Liquid, Sp. Gr. = 1.00

BODY SIZE	DESIGNATOR & 100% FLOW	OVER-READ FLOW	MINIMUM FLOW	SCALE INCREMENTS	ΔP, INCHES H ₂ O
6 (3/4")	1.20	1.25	0.06	0.01	7.5
	1.64	1.78	0.08	0.02	7.5
	2.60	2.82	0.10	0.02	14.2
	3.80	4.40	0.15	0.05	17.2
	5.40	6.10	0.20	0.05	17.2
	7.00	7.90	0.20	0.10	22.0
	10.0	12.0	0.20	0.10	22.0
	15.0	16.0	0.60	0.20	40.0
12 (1 1/2") or 16 (2")	20.0	30.0	0.50	0.50	75.0
	11.0	13.0	0.50	0.10	13.8
	15.0	16.4	0.70	0.10	14.8
	25.0	28.0	1.00	0.20	17.5
	35.0	40.0	0.50	0.25	18.5
	50.0	60.0	1.00	0.50	26.0
	70.0	75.0	2.00	0.50	80.0
	120.	130.	4.00	1.00	130.
24 (3")	50.0	60.0	2.00	0.50	15.0
	100.	120.	4.00	1.00	30.0
	150.	175.	7.00	1.00	40.0
	200.	240.	10.0	2.00	54.0
	300.	330.	15.0	2.50	150.
32 (4")	100.	120.	4.00	1.00	27.0
	150.	175.	7.00	1.00	36.0
	200.	240.	10.0	2.00	49.0
	300.	330.	15.0	2.50	53.0

Table 2: "P-72®" Flowmeter Capacities, SCFM Dry Air, @ 100 PSIG, 70°F.

BODY SIZE	DESIGNATOR & 100% FLOW	OVER-READ FLOW	MINIMUM FLOW	SCALE INCREMENTS	ΔP, INCHES H ₂ O
6 (3/4")	20.0	23.0	1.00	0.25	3.3
	26.0	28.0	1.00	0.50	3.4
	35.0	39.0	1.00	0.50	4.0
	50.0	55.0	2.00	0.50	4.5
	70.0	75.0	3.00	1.00	11.8
	85.0	100.	4.00	1.00	18.0
	125.	140.	6.00	1.00	22.0
	160.	180.	6.00	2.00	45.0
12 (1 1/2") or 16 (2")	260.	290.	4.00	2.00	93.0
	40.0	43.0	2.00	0.50	1.4
	70.0	75.0	3.00	0.50	4.2
	100.	110.	4.00	1.00	7.6
	140.	168.	5.00	1.00	7.8
	175.	210.	5.00	1.00	7.6
	250.	320.	6.00	2.00	7.5
	310.	350.	2.00	2.00	12.0
	390.	470.	7.50	2.50	22.0
	510.	610.	10.0	5.00	40.0
24 (3")	750.	900.	35.0	5.00	70.0
	1000.	1200.	20.0	5.00	90.0
	600.	630.	30.0	5.00	15.0
	1000.	1200.	40.0	10.0	30.0
	1750.	2000.	70.0	10.0	40.0
32 (4")	2300.	2500.	100.0	20.0	54.0
	3500.	3700.	150.0	25.0	150.
	1000.	1200.	40.0	10.0	27.0
32 (4")	1750.	2000.	70.0	10.0	36.0
	2300.	2500.	100.0	20.0	49.0
	3500.	3700.	150.0	25.0	53.0