



Orifice Plate Flowmeter

Stainless Steel for Use with Compatible Liquids and Gases

MODEL CHART														
OP Model	OP Weight (lb)	PE Model	PE Weight (lb)	TE Model	TE Weight (lb)	Line Size	Bore	Beta	Water Capacity		Air Capacity - Flow in SCFM			
									in d.p. w.c.	Flow in GPM	in d.p. w.c.	at 14.7 psia (0 psig)	at 20 psig	at 100 psig
OP-A-1	1.00	PE-A-1	1.00	TE-A-1	1.00	1/2"	0.200"	0.32	20	0.62	20	2.35	3.63	6.61
OP-A-2	1.00	PE-A-2	1.00	TE-A-2	1.00	1/2"	0.310"	0.50	100	3.44	100	12.21	19.58	36.37
OP-A-3	1.00	PE-A-3	1.00	TE-A-3	1.00	1/2"	0.430"	0.69	320	13.00	200	32.77	56.15	107.47
OP-B-1	1.00	PE-B-1	1.00	TE-B-1	1.00	3/4"	0.250"	0.30	20	0.97	20	3.65	5.66	10.3
OP-B-2	1.00	PE-B-2	1.00	TE-B-2	1.00	3/4"	0.400"	0.49	100	5.69	100	20.21	32.44	60.26
OP-B-3	1.00	PE-B-3	1.00	TE-B-3	1.00	3/4"	0.580"	0.70	320	23.82	200	59.92	102.91	197.2
OP-C-1	2.00	PE-C-1	1.00	TE-C-1	1.00	1"	0.300"	0.29	20	1.38	20	5.24	8.11	14.8
OP-C-2	2.00	PE-C-2	1.00	TE-C-2	1.00	1"	0.520"	0.49	100	9.63	100	34.2	54.92	102.09
OP-C-3	2.00	PE-C-3	1.00	TE-C-3	1.00	1"	0.720"	0.69	320	36.15	200	91.28	156.51	300
OP-D-1	2.00	PE-D-1	1.00	TE-D-1	1.00	1.25"	0.400"	0.29	20	2.46	20	9.31	14.41	26.3
OP-D-2	2.00	PE-D-2	1.00	TE-D-2	1.00	1.25"	0.700"	0.51	100	17.48	100	62.09	99.75	185.5
OP-D-3	2.00	PE-D-3	1.00	TE-D-3	1.00	1.25"	1.00"	0.72	320	71.77	200	180	309.97	595.2
OP-E-1	2.00	PE-E-1	2.00	TE-E-1	2.00	1.5"	0.500"	0.31	20	3.85	20	14.57	22.55	41.16
OP-E-2	2.00	PE-E-2	2.00	TE-E-2	2.00	1.5"	0.800"	0.50	100	22.73	100	80.82	129.68	241.5
OP-E-3	2.00	PE-E-3	2.00	TE-E-3	2.00	1.5"	1.100"	0.68	320	83.95	200	212.18	363.93	697.39
OP-F-1	3.00	PE-F-1	2.00	TE-F-1	2.00	2"	0.600"	0.29	20	5.52	20	20.92	32.38	59.13
OP-F-2	3.00	PE-F-2	2.00	TE-F-2	2.00	2"	1.000"	0.48	100	35.34	100	125.74	202.03	375.8
OP-F-3	3.00	PE-F-3	2.00	TE-F-3	2.00	2"	1.450"	0.70	320	147.74	200	372.09	639.87	1227.63
OP-G-1	4.00	PE-G-1	2.00	TE-G-1	2.00	2.5"	0.750"	0.30	20	8.63	20	32.71	50.64	92.48
OP-G-2	4.00	PE-G-2	2.00	TE-G-2	2.00	2.5"	1.250"	0.50	100	55.54	100	197.54	317.58	590.91
OP-G-3	4.00	PE-G-3	2.00	TE-G-3	2.00	2.5"	1.750"	0.70	320	216.30	200	543.99	936.56	1798.86
OP-H-1	5.00	PE-H-1	2.00	TE-H-1	2.00	3"	0.920"	0.30	20	12.97	20	49.17	76.13	139.06
OP-H-2	5.00	PE-H-2	2.00	TE-H-2	2.00	3"	1.500"	0.49	100	79.94	100	282.9	454.77	846.21
OP-H-3	5.00	PE-H-3	2.00	TE-H-3	2.00	3"	2.150"	0.70	320	324.16	200	816.7	1404.95	2696.28
OP-J-1	7.00	PE-J-1	3.00	TE-J-1	3.00	4"	1.200"	0.30	20	22.03	20	83.58	129.44	236.48
OP-J-2	7.00	PE-J-2	3.00	TE-J-2	3.00	4"	2.000"	0.50	100	141.51	100	503.78	810.06	1507.64
OP-J-3	7.00	PE-J-3	3.00	TE-J-3	3.00	4"	2.800"	0.70	320	547.11	200	1380.03	2373.02	4553.68
OP-K-1	8.00	PE-K-1	3.00	TE-K-1	4.00	5"	1.500"	0.30	20	34.39	20	130.48	202.11	369.29
OP-K-2	8.00	PE-K-2	3.00	TE-K-2	4.00	5"	2.500"	0.50	100	220.80	100	786.23	1264.42	2353.51
OP-K-3	8.00	PE-K-3	3.00	TE-K-3	4.00	5"	3.500"	0.69	320	853.09	200	2152.83	3701.57	7103.22
OP-L-1	10.00	PE-L-1	4.00	TE-L-1	4.00	6"	1.800"	0.30	20	49.46	20	187.86	291	531.75
OP-L-2	10.00	PE-L-2	4.00	TE-L-2	4.00	6"	3.000"	0.49	100	317.74	100	1331.63	1820.05	3387.93
OP-L-3	10.00	PE-L-3	4.00	TE-L-3	4.00	6"	4.200"	0.69	320	1226.98	200	3097.20	5325.20	10219.28
OP-M-1	14.00	PE-M-1	5.00	TE-M-1	6.00	8"	2.400"	0.30	20	67.95	20	333.87	517.25	945.28
OP-M-2	14.00	PE-M-2	5.00	TE-M-2	6.00	8"	4.000"	0.50	100	565.77	100	2014.95	3241.45	6034.85
OP-M-3	14.00	PE-M-3	5.00	TE-M-3	6.00	8"	5.600"	0.70	320	2195.86	200	5532.00	9525.43	18290.00
OP-N-1	20.00	PE-N-1	6.00	TE-N-1	8.00	10"	3.000"	0.30	20	137.35	20	521.58	808	1476.77
OP-N-2	20.00	PE-N-2	6.00	TE-N-2	8.00	10"	5.000"	0.50	100	883.04	100	3145.50	5080.38	9421.74
OP-N-3	20.00	PE-N-3	6.00	TE-N-3	8.00	10"	7.000"	0.70	320	3421.26	200	8626.42	14846.80	28506.17
OP-O-1	30.00	PE-O-1	7.00	TE-O-1	10.00	12"	3.600"	0.30	20	197.73	20	750.9	1163.44	2126.47
OP-O-2	30.00	PE-O-2	7.00	TE-O-2	10.00	12"	6.000"	0.50	100	1271.62	100	4530	7288.16	13570.33
OP-O-3	30.00	PE-O-3	7.00	TE-O-3	10.00	12"	8.400"	0.70	320	4930.86	200	12430.00	21397.00	41099.02
OP-P-1	40.00	PE-P-1	9.00	TE-P-1	15.00	14"	4.000"	0.30	20	244.14	20	927.14	1436.59	2625.81
OP-P-2	40.00	PE-P-2	9.00	TE-P-2	15.00	14"	6.600"	0.50	100	1537.49	100	6477.67	8812.87	16409.42
OP-P-3	40.00	PE-P-3	9.00	TE-P-3	15.00	14"	9.300"	0.70	320	6052.57	200	15251.50	28262.66	50427.78
OP-Q-1	48.00	PE-Q-1	10.00	TE-Q-1	18.00	16"	4.500"	0.30	20	308.76	20	1172.63	1817.05	3321.32
OP-Q-2	48.00	PE-Q-2	10.00	TE-Q-2	18.00	16"	7.600"	0.50	100	2038.95	100	7264.58	11688.26	21764.08
OP-Q-3	48.00	PE-Q-3	10.00	TE-Q-3	18.00	16"	10.700"	0.70	320	8007.74	200	20179.85	34749.32	66737.64

Note: Differential pressure values should be less than 50% of the inlet absolute pressure.

Specifications:-	
Service	: Compatible liquids and gases.
Wetted Materials	: 304 SS, Buna-N gaskets.
Accuracy	: $\pm 0.6\%$ full scale flow. (Beta= .2-.6) $\pm 0.7\%$ for Beta greater than .6.
Temperature Limits	: -50 to 200°F (-45 to 93°C).
Pressure Limits	: 150 psi max.
Head Loss	: $1 - \text{Beta ratio}^2$, eg: $1 - 07^2 = 1 - 0.49 = 51\%$ of the d.p.
Line Sizes	: 1/2" to 24".
Process Connections	: 1/4" female NPT.
Installation	: Standard flange 125#/150# rating.
Pipe Requirements	: General requirements 10 diameter upstream and 5 diameter downstream.
Weight	: Varies with line size. See Catalog page.