

# Orifice Plate Chart

					Water Flow in GPM							Air Flow in SCFM at 80°F							
OB Model - Brass	OS Model - SST	OM Model - Monel	lbs.	Line Size	Bore OB - Brass	Beta OB - Brass	in/H2O OB	Bore OS/OM	Beta OS/OM	in/H2O OS/OM	GPM	Bore OB - Brass	Beta OB - Brass	OB at 50psig	OB at 100psig	Bore OS/OM	Beta OS/OM	OB at 50psig	OS/OM at 100psig
OB-0.5-1	OS-0.5-1	OM-0.5-1	2.00	1/2"	0.159"	0.221	207.6	0.147"	0.23	276.8	2.00	0.158"	0.219	14.10	20.00	0.149"	0.207	13.80	20.00
OB-0.5-2	OS-0.5-2	OM-0.5-2	2.00	1/2"	0.223"	0.310	207.6	0.207"	0.33	276.8	4.00	0.223"	0.310	28.20	40.00	0.210"	0.292	27.50	40.00
OB-0.5-3	OS-0.5-3	OM-0.5-3	2.00	1/2"	0.271"	0.376	207.6	0.253"	0.40	276.8	6.00	0.273"	0.379	42.50	60.00	0.257"	0.357	41.30	60.00
OB-0.75-1	OS-0.75-1	OM-0.75-1	2.00	3/4"	0.273"	0.379	207.6	0.254"	0.30	276.8	6.00	0.273"	0.291	42.30	60.00	0.257"	0.274	41.10	60.00
OB-0.75-2	OS-0.75-2	OM-0.75-2	2.00	3/4"	0.350"	0.420	207.6	0.326"	0.39	276.8	10.00	0.352"	0.375	70.20	100.00	0.332"	0.354	69.00	100.00
OB-0.75-3	OS-0.75-3	OM-0.75-3	2.00	3/4"	0.486"	0.510	207.6	0.456"	0.55	276.8	20.00	0.491"	0.524	140.50	200.00	0.465"	0.496	137.50	200.00
OB-1.0-1	OS-1.0-1	OM-1.0-1	3.00	1"	0.428"	0.400	207.6	0.400"	0.38	276.8	15.00	0.429"	0.408	105.40	150.00	0.406"	0.387	103.50	150.00
OB-1.0-2	OS-1.0-2	OM-1.0-2	3.00	1"	0.492"	0.550	207.6	0.461"	0.44	276.8	20.00	0.494"	0.527	140.30	200.00	0.467"	0.445	138.40	200.00
OB-1.0-3	OS-1.0-3	OM-1.0-3	3.00	1"	0.589"	0.560	207.6	0.561"	0.53	276.8	30.00	0.597"	0.637	210.30	300.00	0.566"	0.539	205.50	300.00
OB-1.5-1	OS-1.5-1	OM-1.5-1	3.00	1 1/2"	0.689"	0.420	207.6	0.650"	0.40	276.8	40.00	0.701"	0.435	281.10	400.00	0.662"	0.389	275.60	400.00
OB-1.5-2	OS-1.5-2	OM-1.5-2	3.00	1 1/2"	0.848"	0.530	207.6	0.791"	0.49	276.8	60.00	0.852"	0.529	421.80	600.00	0.806"	0.474	412.50	600.00
OB-1.5-3	OS-1.5-3	OM-1.5-3	3.00	1 1/2"	1.060"	0.650	207.6	1.00"	0.62	276.8	100.00	1.075"	0.667	697.40	1000.00	1.023"	0.601	682.40	1000.00
OB-2.0-1	OS-2.0-1	OM-2.0-1	3.00	2"	0.854"	0.410	207.6	0.796"	0.38	276.8	60.00	0.859"	0.415	423.60	600.00	0.811"	0.393	414.00	600.00
OB-2.0-2	OS-2.0-2	OM-2.0-2	3.00	2"	0.986"	0.480	207.6	1.018"	0.49	276.8	100.00	1.096"	0.530	703.00	1000.00	1.037"	0.503	686.00	1000.00
OB-2.0-3	OS-2.0-3	OM-2.0-3	3.00	2"	1.090"	0.520	207.6	1.223"	0.59	276.8	150.00	1.315"	0.636	1048.00	1500.00	1.251"	0.607	1023.00	1500.00
OB-2.5-1	OS-2.5-1	OM-2.5-1	4.00	2 1/2"	0.860"	0.340	207.6	0.799"	0.32	276.8	60.00	0.861"	0.348	423.20	600.00	0.813"	0.329	414.50	600.00
OB-2.5-2	OS-2.5-2	OM-2.5-2	4.00	2 1/2"	1.090"	0.440	207.6	1.026"	0.42	276.8	100.00	1.106"	0.447	705.50	1000.00	1.045"	0.423	689.00	1000.00
OB-2.5-3	OS-2.5-3	OM-2.5-3	4.00	2 1/2"	1.533"	0.620	207.6	1.418"	0.57	276.8	200.00	1.526"	0.617	1400.00	2000.00	1.450"	0.587	1365.00	2000.00
OB-3.0-1	OS-3.0-1	OM-3.0-1	6.00	3"	1.100"	0.350	207.6	1.063"	0.35	276.8	100.00	1.111"	0.361	705.00	1000.00	1.048"	0.341	690.00	1000.00
OB-3.0-2	OS-3.0-2	OM-3.0-2	6.00	3"	1.580"	0.510	207.6	1.510"	0.49	276.8	200.00	1.554"	0.506	1407.00	2000.00	1.470"	0.478	1375.00	2000.00
OB-3.0-3	OS-3.0-3	OM-3.0-3	6.00	3"	1.900"	0.620	207.6	1.822"	0.59	276.8	300.00	1.871"	0.609	2098.00	3000.00	1.778"	0.579	2052.50	3000.00