

**MANIFOLD SYSTEMS
LIQUID FLOW RATE THROUGH BALL VALVES**

WORKING PRESSURE (PSI)	NOMINAL SIZE (IN.)	BORE SIZE (IN.)	BARRELS/DAY		GALLONS/MIN.		PRESSURE DROP (PSI)	EQUIVALENT Cv
			MIN.	MAX	MIN.	MAX		
3,600	1	13/16"	165	825	5	24	0.59	25
	2	1-1/2"	567	2,833	17	83	0.70	80
	2.5	1-13/16"	827	4,134	24	121	0.61	124
	3	2-1/16"	1,103	5,515	32	161	0.62	164
	3	2-9/16"	1,693	8,465	49	247	0.42	308
	4	3-5/16"	2,766	13,830	81	403	0.25	646
	4	3-3/4"	3,541	17,705	103	516	0.23	862
	6	5-3/16"	6,775	33,875	198	988	0.19	1841
	8	7-1/16"	11,687	58,434	342	1704	0.18	3175
	10	9-1/16"	19,268	96,377	562	2811	0.28	5312
5,000	1	13/16"	165	825	5	24	0.74	23
	2	1-1/2"	567	2,833	17	83	0.61	85
	2.5	1-13/16"	827	4,134	24	121	0.81	108
	3	2-1/16"	1,103	5,515	32	161	0.30	236
	3	2-9/16"	1,693	8,465	49	247	0.83	219
	4	3-1/4"	2,660	13,297	78	388	0.32	554
	4	4-1/8"	4,285	21,424	125	625	0.27	965
	6	5-3/16"	5,681	27,407	166	829	0.20	1502
	8	7-1/16"	11,687	58,434	342	1704	0.18	3175
	10	8-1/2"	18,206	90,960	531	2653	0.28	5013
6,000	1	13/16"	165	825	5	24	2.65	12
	2	1-1/2"	567	2,833	17	83	0.54	91
	2.5	1-13/16"	827	4,134	24	121	0.67	119
	3	2-1/4"	1,275	6,374	37	186	0.37	246
	4	3-1/4"	2,660	13,299	78	388	0.32	554
	6	4-1/8"	4,285	21,424	125	625	0.27	965
	6	4-3/4"	5,681	28,407	166	829	0.20	1502
	8	6-13/16"	11,687	58,343	342	1704	0.18	3175
	10	8-1/2"	18,206	90,960	531	2653	0.28	5013
	10,000	1	13/16"	165	825	5	24	2.65
2		1-1/2"	567	2,833	17	83	0.54	91
2.5		1-13/16"	827	4,134	24	121	0.67	119
3		2-1/8"	1,137	5,685	33	166	0.28	254
3		2-5/8"	1,735	8,676	51	253	0.84	223
4		3-1/8"	2,459	12,295	72	359	0.24	588
6		4-1/8"	4,285	21,424	125	625	0.27	965
8		6-1/16"	9,351	46,756	273	1364	0.21	2946

NOTE: Minimum is defined as 3 feet/sec.

Maximum is defined as 15 feet/sec.

Pressure drop and equivalent Cv's are calculated based on max. flow rates and include end connections.

