

In order to properly size and quote a valve(s) for your job, please complete all fields:

Is this for an order? Is this for pricing only?

If Replacing a Maxton Valve the Serial Number is: _____

Quantity of valves required for job: _____

If more than 1 is this for: Separate Elevators, Tandem/Dual Pump Units.

Information Required for Valve Sizing

Piston Info: (check applicable)

Single or Dual, Roped (1:2), Multi Stage (Telescopic), Diameter(s) _____

Other Info:

Contract Speed _____ Capacity of Car _____

Empty Static Pressure "PSI"; "B" port reading: (no load) _____ or empty car weight: _____

Is Down Speed Regulation required? Yes No

Do you require an OSV (pipe rupture or seismic safety valve) for installation? _____

Coil Voltage (select one) 120 VAC 240 VAC 115 VDC

COMPLETE FOR UC4/ UC4M /UC4MR:
Facing the adjustments, jack is to the:

Left Right

COMPLETE FOR UC1A/UC2A:

Type of Flanges:	Pump	Jack	Tank
2" NPT	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2.5" NPT	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2" Grooved	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2.5" Grooved	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3" Grooved <small>+ not recommended for UC2A</small>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

COMPLETE FOR OSV:

Type of Flanges:	Jack	Tank
2" NPT	<input type="checkbox"/>	<input type="checkbox"/>
2.5" NPT	<input type="checkbox"/>	<input type="checkbox"/>
2" Grooved	<input type="checkbox"/>	<input type="checkbox"/>
2.5" Grooved	<input type="checkbox"/>	<input type="checkbox"/>
3" Grooved	<input type="checkbox"/>	<input type="checkbox"/>

Type of Flanges:	Pump	Jack	Tank
2" NPT	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2" Grooved	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Optional Products:	QTY
Low Pressure Switch (PSNO-2)	
Quick Disconnect Coupling (1/8" NPT)	
Quick Disconnect Nipples (1/8" NPT)	
MAXGLIDE OIL ADDITIVE, 1 Gallon (Eliminates stick slip / chatter)	
SafeTach2 Elevator Performance Meter	

Optional Products:	Size	QTY
TDF1 (125 GPM) Tank Discharge Filter	<input type="checkbox"/> 2" NPT	<input type="checkbox"/> 2" Grooved
	<input type="checkbox"/> 2" NPT	<input type="checkbox"/> 2" Grooved
TDF2 (250 GPM) Tank Discharge Filter	<input type="checkbox"/> 2" NPT	<input type="checkbox"/> 2" Grooved
	<input type="checkbox"/> 2" NPT	<input type="checkbox"/> 2" Grooved
Isolation Coupling	<input type="checkbox"/> 2" NPT	<input type="checkbox"/> 2" Grooved <input type="checkbox"/> 2.5" NPT
	<input type="checkbox"/> 2.5" Grooved	<input type="checkbox"/> 3" Grooved <input type="checkbox"/> 3" NPT
Shut Off Ball Valves	<input type="checkbox"/> 2" NPT	<input type="checkbox"/> 2" Grooved <input type="checkbox"/> BV1-4A
	<input type="checkbox"/> 2.5" NPT	<input type="checkbox"/> 2.5" Grooved <input type="checkbox"/> BV1-8A
	<input type="checkbox"/> 3" Grooved	<input type="checkbox"/> BV3/4

**Remember: You can order on-line or size valves on our website @ www.maxtonvalve.com
24 hrs. a day, 7 days a week! For assistance contact Sales at (775) 782-1700**

Name: _____ Phone #: _____

Company Name: _____ Fax #: _____

Bill To City Address: _____

Shipping Address: _____

PO# or Credit Card # _____ Name on Credit Card: _____

Shipping Instructions: _____ Credit Card Expiration Date _____

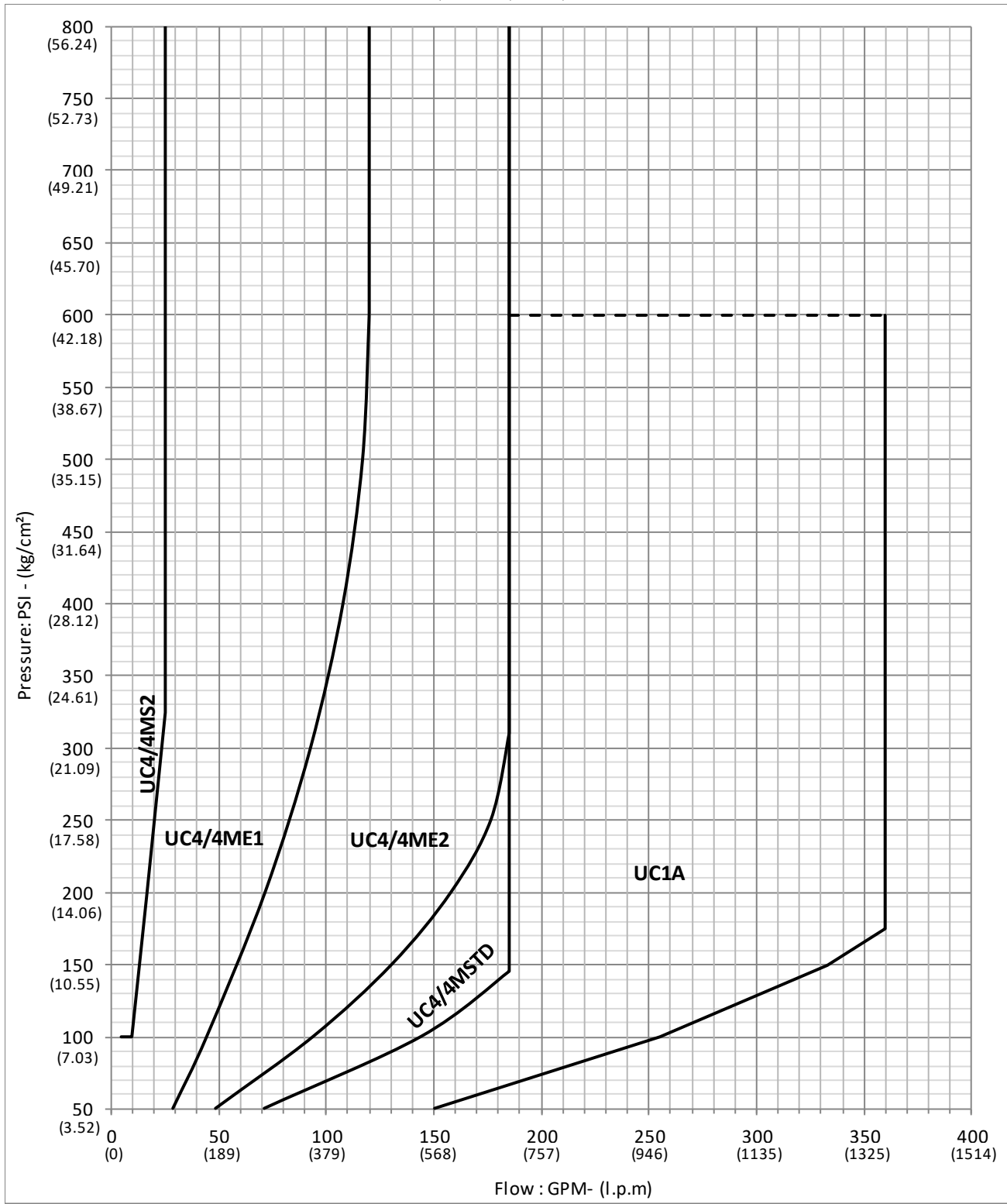
(UPS ground service can take up to 6 business days depending on your location)



Conforms to ASME STD A17.1
& CSA STD C22.2 #139

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UC4, UC4M, UC1, UC1AB44



HOW TO SELECT A VALVE:

1. APPLY MINIMUM P.S.I. AND G.P.M. (OR kg/cm² AND L.P.M.) TO CHART.
2. DETERMINE POINT OF INTERSECTION.

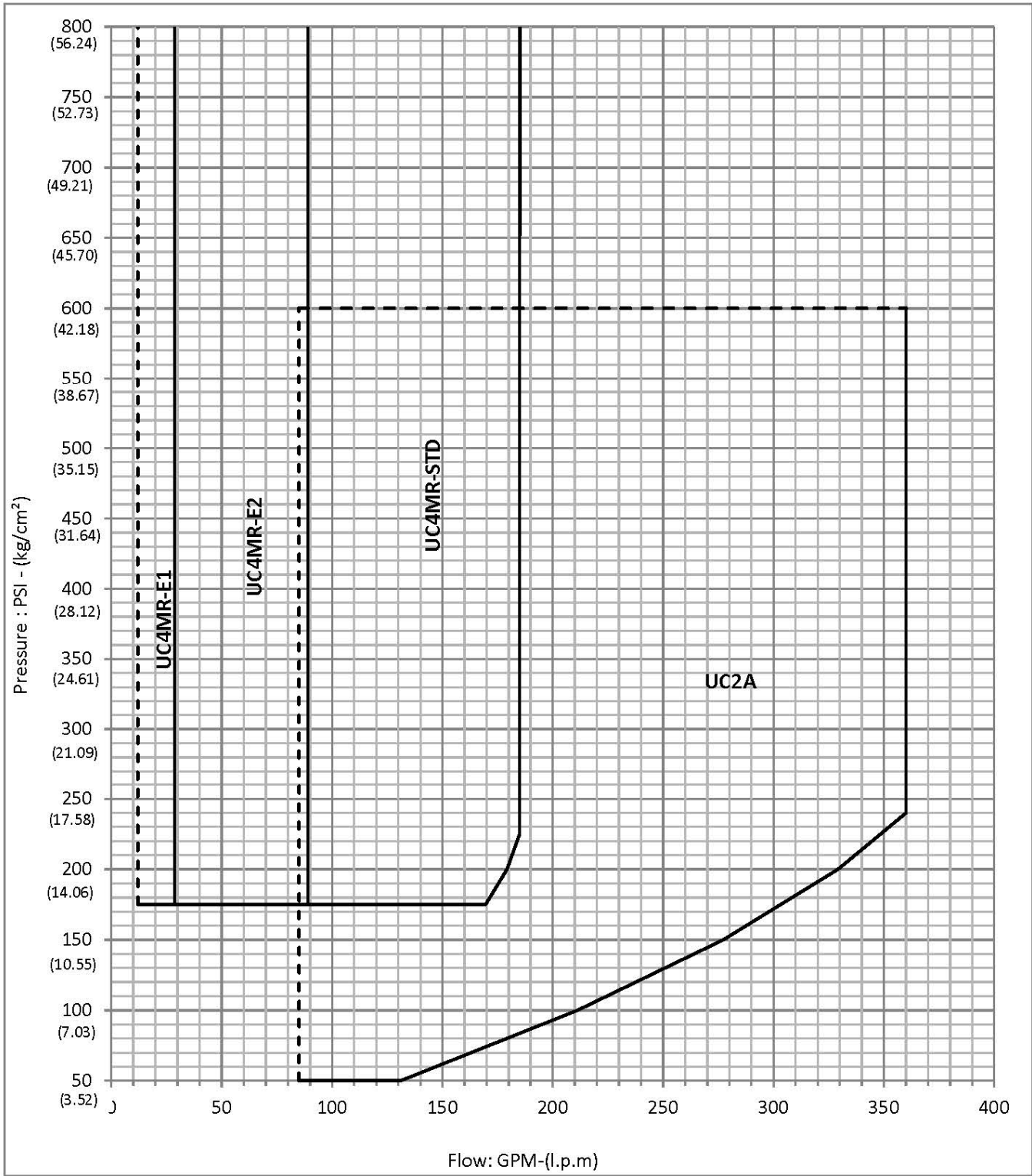
NOTE:

THIS CHART ASSUMES THE UP AND DOWN CONTRACT SPEEDS ARE THE **SAME**.
(CONTRACT SPEED = FULL DOWN SPEED WITH RATED LOAD)

MAXIMUM OPERATING PRESSURES

UC1 / 1A SERIES VALVES: 600 P.S.I. UC4 / UC4M SERIES VALVES: 800 P.S.I.

Down Speed Regulated Valves



HOW TO SELECT A VALVE:

1. APPLY MINIMUM P.S.I. AND G.P.M. (OR kg/cm² AND L.P.M.) TO CHART.
2. DETERMINE POINT OF INTERSECTION.

NOTE:

THIS CHART ASSUMES THE UP AND DOWN CONTRACT SPEEDS ARE THE **SAME**.
(CONTRACT SPEED = FULL DOWN SPEED WITH RATED LOAD)

MAXIMUM OPERATING PRESSURES

UC4MR SERIES VALVES: 800 P.S.I.

UC2/UC2A SERIES VALVES: 600 P.S.I.

EMV10 SERIES VALVE: 1000 P.S.I.

STATIC PRESSURE TABLE

POUNDS PER SQUARE INCH BASED ON NET LOAD (POUNDS)
DIRECT ACTING APPLICATIONS

NET JACK PISTON DIAMETER (INCHES)

	2	2 1/2	2 3/4	3	3 1/2	4	4 3/8	4 1/2	5	5 7/16	5 1/2	6	6 1/2	7	7 1/2	8	8 1/2	9 1/2	10 5/8	12 5/8
1000	318	204	168	141	104	80	67	63	51	43	42	35	30	26	23	20	18	14	11	8
1500	477	306	253	212	156	119	100	94	76	65	63	53	45	39	34	30	26	21	17	12
2000	637	407	337	283	208	159	133	126	102	86	84	71	60	52	45	40	35	28	23	16
2500	796	509	421	354	260	199	166	157	127	108	105	88	75	65	57	50	44	35	28	20
3000	955	611	505	424	312	239	200	189	153	129	126	106	90	78	68	60	53	42	34	24
3500		713	589	495	364	279	233	220	178	151	147	124	105	91	79	70	62	49	39	28
4000		815	673	566	416	318	266	252	204	172	168	141	121	104	91	80	70	56	45	32
4500		917	758	637	468	358	299	283	229	194	189	159	136	117	102	90	79	63	51	36
5000			842	707	520	398	333	314	255	215	210	177	151	130	113	99	88	71	56	40
5500			926	778	572	438	366	346	280	237	231	195	166	143	124	109	97	78	62	44
6000				849	624	477	399	377	306	258	253	212	181	156	136	119	106	85	68	48
6500				920	676	517	432	409	331	280	274	230	196	169	147	129	115	92	73	52
7000				990	728	557	466	440	357	301	295	248	211	182	158	139	123	99	79	56
7500					780	597	499	472	382	323	316	265	226	195	170	149	132	106	85	60
8000					832	637	532	503	407	345	337	283	241	208	181	159	141	113	90	64
8500					883	676	565	534	433	366	358	301	256	221	192	169	150	120	96	68
9000					935	716	599	566	458	388	379	318	271	234	204	179	159	127	102	72
9500					987	756	632	597	484	409	400	336	286	247	215	189	167	134	107	76
10000						796	665	629	509	431	421	354	301	260	226	199	176	141	113	80
12000						955	798	755	611	517	505	424	362	312	272	239	211	169	135	96
14000							931	880	713	603	589	495	422	364	317	279	247	198	158	112
16000									815	689	673	566	482	416	362	318	282	226	180	128
18000									917	775	758	637	542	468	407	358	317	254	203	144
20000										861	842	707	603	520	453	398	352	282	226	160
25000												884	753	650	566	497	441	353	282	200
30000													904	780	679	597	529	423	338	240
ADD PER 100 lbs.	31.8	20.4	16.8	14.1	10.4	7.96	6.65	6.29	5.09	4.31	4.21	3.54	3.01	2.60	2.26	1.99	1.76	1.41	1.13	0.80

STATIC PRESSURE (P.S.I.)

RATED FLOW TABLE

GALLONS PER MINUTE BASED ON CAR SPEED (FEET PER MINUTE)
DIRECT ACTING APPLICATIONS

JACK PISTON DIAMETER (INCHES)

	2	2 1/2	2 3/4	3	3 1/2	4	4 3/8	4 1/2	5	5 7/16	5 1/2	6	6 1/2	7	7 1/2	8	8 1/2	9 1/2	10 5/8	12 5/8
1	0.16	0.26	0.31	0.37	0.50	0.65	0.78	0.83	1.02	1.21	1.23	1.47	1.72	2.00	2.30	2.61	2.95	3.68	4.61	6.50
5	0.82	1.28	1.54	1.84	2.50	3.26	3.90	4.13	5.10	6.03	6.17	7.34	8.62	10	11	13	15	18	23	33
10	1.63	2.55	3.09	3.67	5.00	6.53	7.81	8.26	10	12	12	15	17	20	23	26	29	37	46	65
20	3.26	5.10	6.17	7.34	10	13	16	17	20	24	25	29	34	40	46	52	59	74	92	130
30	4.90	7.65	9.26	11	15	20	23	25	31	36	37	44	52	60	69	78	88	110	138	195
40	6.53	10	12	15	20	26	31	33	41	48	49	59	69	80	92	104	118	147	184	260
50	8.16	13	15	18	25	33	39	41	51	60	62	73	86	100	115	131	147	184	230	325
60	9.79	15	19	22	30	39	47	50	61	72	74	88	103	120	138	157	177	221	276	390
70	11	18	22	26	35	46	55	58	71	84	86	103	121	140	161	183	206	258	322	455
80	13	20	25	29	40	52	62	66	82	97	99	118	138	160	184	209	236	295	368	520
90	15	23	28	33	45	59	70	74	92	109	111	132	155	180	207	235	265	331	415	585
100	16	26	31	37	50	65	78	83	102	121	123	147	172	200	230	261	295	368	461	650
110	18	28	34	40	55	72	86	91	112	133	136	162	190	220	252	287	324	405	507	715
120	20	31	37	44	60	78	94	99	122	145	148	176	207	240	275	313	354	442	553	780
125	20	32	39	46	62	82	98	103	128	151	154	184	215	250	287	326	368	460	576	813
130	21	33	40	48	65	85	102	107	133	157	160	191	224	260	298	339	383	479	599	845
140	23	36	43	51	70	91	109	116	143	169	173	206	241	280	321	366	413	516	645	910
150	24	38	46	55	75	98	117	124	153	181	185	220	259	300	344	392	442	552	691	975
160	26	41	49	59	80	104	125	132	163	193	197	235	276	320	367	418	472	589	737	1,040
170	28	43	52	62	85	111	133	140	173	205	210	250	293	340	390	444	501	626	783	1,106
180	29	46	56	66	90	118	141	149	184	217	222	264	310	360	413	470	531	663	829	1,171
190	31	48	59	70	95	124	148	157	194	229	234	279	328	380	436	496	560	700	875	1,236
200	33	51	62	73	100	131	156	165	204	241	247	294	345	400	459	522	590	736	921	1,301

Flow (GPM)

STATIC PRESSURE TABLE

PRESSURE IN BARS BASED ON NET LOAD (KILOGRAMS)
DIRECT ACTING APPLICATIONS

NET JACK PISTON DIAMETER (mm)

	60	70	80	90	100	110	120	125	140	150	160	180	200	210
100	3.48													
200	6.97	5.12	3.92											
300	10.45	7.68	5.88	4.65	3.76									
400	13.94	10.24	7.84	6.19	5.02	4.15	3.48							
500	17.42	12.80	9.80	7.74	6.27	5.18	4.36	4.01						
1000	34.85	25.60	19.60	15.49	12.54	10.37	8.71	8.03	6.40	5.58	4.90	3.87		
1500		38.40	29.40	23.23	18.82	15.55	13.07	12.04	9.60	8.36	7.35	5.81	4.70	4.27
2000			39.20	30.97	25.09	20.73	17.42	16.06	12.80	11.15	9.80	7.74	6.27	5.69
2500				38.72	31.36	25.92	21.78	20.07	16.00	13.94	12.25	9.68	7.84	7.11
3000				46.46	37.63	31.10	26.13	24.08	19.20	16.73	14.70	11.62	9.41	8.53
3500					43.90	36.29	30.49	28.10	22.40	19.51	17.15	13.55	10.98	9.96
4000						41.47	34.85	32.11	25.60	22.30	19.60	15.49	12.54	11.38
4500						46.65	39.20	36.13	28.80	25.09	22.05	17.42	14.11	12.80
5000							43.56	40.14	32.00	27.88	24.50	19.36	15.68	14.22
5500							47.91	44.16	35.20	30.66	26.95	21.29	17.25	15.64
6000								48.17	38.40	33.45	29.40	23.23	18.82	17.07
6500									41.60	36.24	31.85	25.17	20.38	18.49
7000									44.80	39.03	34.30	27.10	21.95	19.90
7500									48.00	41.81	36.75	29.04	23.52	21.33
8000										44.60	39.20	30.97	25.09	22.76
8500										47.39	41.65	32.91	26.66	24.18
9000											44.10	34.85	28.22	25.60
9500											46.55	36.78	29.79	27.02
10000												38.72	31.36	28.45
15000													47.04	42.67

STATIC PRESSURE (bars)

RATED FLOW TABLE (METRIC)

LITERS PER MINUTE BASED ON CAR SPEED (METERS PER MINUTE)
DIRECT ACTING APPLICATIONS

JACK PISTON DIAMETER (mm)

		60	70	80	90	100	110	120	125	140	150	160	180	200	210
C A R S P E E D METERS PER MINUTE	1	2.83	3.85	5.03	6.36	7.85	9.50	11.3	12.3	15.4	17.7	20.1	25.4	31.4	34.6
	2	5.65	7.70	10.1	12.7	15.7	19.0	22.6	24.5	30.8	35.3	40.2	50.9	62.8	69.3
	3	8.48	11.5	15.1	19.1	23.6	28.5	33.9	36.8	46.2	53.0	60.3	76.3	94.2	104
	4	11.3	15.4	20.1	25.4	31.4	38.0	45.2	49.1	61.6	70.7	80.4	102	126	139
	5	14.1	19.2	25.1	31.8	39.3	47.5	56.5	61.4	77.0	88.4	101	127	157	173
	10	28.3	38.5	50.3	63.6	78.5	95.0	113	123	154	177	201	254	314	346
	15	42.4	57.7	75.4	95.4	118	143	170	184	231	265	302	382	471	520
	20	56.5	77.0	101	127	157	190	226	245	308	353	402	509	628	693
	25	70.7	96.2	126	159	196	238	283	307	385	442	503	636	785	866
	30	84.8	115	151	191	236	285	339	368	462	530	603	763	942	1039
	35	99.0	135	176	223	275	333	396	430	539	619	704	891	1100	1212
	40	113	154	201	254	314	380	452	491	616	707	804	1018	1257	
	45	127	173	226	286	353	428	509	552	693	795	905	1145		
	50	141	192	251	318	393	475	565	614	770	884	1005	1272		
	55	156	212	276	350	432	523	622	675	847	972	1106			
	60	170	231	302	382	471	570	679	736	924	1060	1206			

FLOW (LITERS PER MINUTE)

SINGLE ACTION CYLINDER DISPLACEMENT

PISTON DIAMETER		PISTON AREA		DISPLACEMENT	
Inches	Millimeters	in ²	cm ²	Gallons per foot	Liters per meter
2	50.80	3.142	20.268	0.163	2.024
2-1/4	57.15	3.976	25.652	0.206	2.558
2-1/2	63.50	4.909	31.669	0.255	3.167
2-3/4	69.85	5.940	38.320	0.309	3.837
3	76.20	7.069	45.604	0.367	4.558
3-1/4	82.55	8.296	53.521	0.431	5.353
3-1/2	88.90	9.621	62.072	0.499	6.197
3-3/4	92.25	11.045	66.838	0.574	7.129
3-7/8	98.43	11.793	76.093	0.613	7.613
4	101.60	12.566	81.073	0.653	8.110
4-1/4	107.95	14.186	91.524	0.737	9.153
4-3/8	111.13	15.033	96.996	0.781	9.699
4-1/2	114.30	15.904	102.608	0.826	10.258
4-3/4	120.65	17.721	114.326	0.920	11.425
5	127.00	19.635	126.677	1.020	12.667
5-1/4	133.35	21.648	139.661	1.124	13.959
5-7/16	138.11	23.221	149.810	1.206	14.977
5-1/2	139.70	23.758	153.279	1.234	15.325
5-3/4	146.05	25.967	167.530	1.349	16.753
6	152.40	28.274	182.415	1.469	18.244
6-1/4	158.75	30.590	197.933	1.593	19.783
6-1/2	165.10	33.183	214.084	1.796	22.305
6-3/4	171.45	35.785	230.869	1.858	23.075
7	177.80	38.485	248.287	1.999	24.826
7-1/2	190.50	44.179	285.023	2.295	28.502
7-3/4	196.85	47.173	304.341	2.450	30.427
8	203.20	50.266	324.293	2.611	32.426
8-1/2	215.90	56.745	366.096	2.947	36.599
8-3/4	222.25	60.132	387.948	3.123	38.785
9	228.60	63.617	410.433	3.305	41.045
9-1/2	241.30	70.882	457.304	3.681	45.714
9-3/4	247.65	74.652	481.689	3.878	48.161
10	254.00	78.540	506.707	4.090	50.794
10-1/4	260.35	82.516	532.360	4.296	53.352
10-1/2	266.70	86.590	558.645	4.500	55.886
10-5/8	269.88	88.664	572.046	4.605	57.190
10-3/4	273.05	90.782	585.564	4.716	58.568
11	279.40	95.033	613.116	4.937	61.313
11-1/4	285.75	99.402	641.302	5.160	64.082
11-1/2	292.10	103.869	670.121	5.395	67.001
11-3/4	298.45	108.434	699.573	5.636	69.993
12	304.80	113.098	729.659	5.875	72.962
12-1/4	311.15	117.859	760.378	6.108	75.855
12-1/2	317.50	122.718	791.730	6.372	79.134
12-5/8	320.68	125.185	807.669	6.503	80.761

Note: Gallons per minute = displacement (gpf) X car speed (fpm).
Liters per minute = displacement (lpm) X car speed (mpm).