

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

**\*Required fields**

**\* Is this for an order?**

**\* Is this for pricing only?**

- \* 1) Piston diameter(s): \_\_\_\_\_ Single \_\_\_\_\_ Dual \_\_\_\_\_ Telescopic 2 or 3 stage
- \* 2) Speed of the car (F.P.M.): \_\_\_\_\_ \* Capacity of the car: \_\_\_\_\_
- \* 3) No load pressure; "B" port reading static: (no load) \_\_\_\_\_ \* **or** empty car weight: \_\_\_\_\_
- \* 4) Is elevator roped 1:2:  **Yes**  **No** \* Does this job require down speed regulation: \_\_\_\_\_
- \* 5) Do you require an OSV (pipe rupture or seismic safety valve) for this installation? \_\_\_\_\_
- \* 6) Quantity of valves required for job: \_\_\_\_\_ If more than 1 is this for  Separate Elevators.  
 Tandem/Dual Pump Units.
- 7) If replacing a Maxton valve the serial number is: \_\_\_\_\_

\* **Coil voltage on valve:**     115VAC (RED)     230VAC (GREEN)     115VDC (BLACK)

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

Left     Right

- Type of flanges:	Pump	Jack	Tank
2" NPT (Thd)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2" Grooved	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Low Pressure Switch    Yes    No (CIRCLE ONE)

Quick Disconnect Coupling (1/8" NPT)    Yes    No

Quick Disconnect Nipples (1/8" NPT)    Yes    No

**\* COMPLETE FOR UC1/UC1A/UC2/UC2A:**  
-The bottom port is the (circle one): PUMP / TANK Flanges:

Flanges:	2"	2.5"	3"	2"	2.5"
	Grooved	Grooved	Grooved	NPT	NPT

Pump:	<input type="checkbox"/>	<input type="checkbox"/>	+ <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Jack:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tank:	<input type="checkbox"/>	<input type="checkbox"/>	++ <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Low Pressure Switch    Yes    No (CIRCLE ONE)

Quick Disconnect Coupling (1/8" NPT)    Yes    No

Quick Disconnect Nipples (1/8" NPT)    Yes    No

+ Not recommended on UC2A  
++ Not recommended on UC2

*We Also Carry:*

- MAXGLIDE OIL ADDITIVE (Eliminates stick slip / chatter)
- ISOLATION COUPLINGS (2", 2.5", 3" Grooved, 2" NPT)
- TDF (Tank discharge filtration system)
- MAXVIEW OIL VIEWING DEVICE (Check for contamination)
- SHUT OFF BALL VALVES (2", 2.5" Grooved or NPT)

**SAFETACH ELEVATOR PERFORMANCE METER**



*Call for more information*

**Remember: You can order on-line or size valves on our website @ [www.maxtonvalve.com](http://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: \_\_\_\_\_

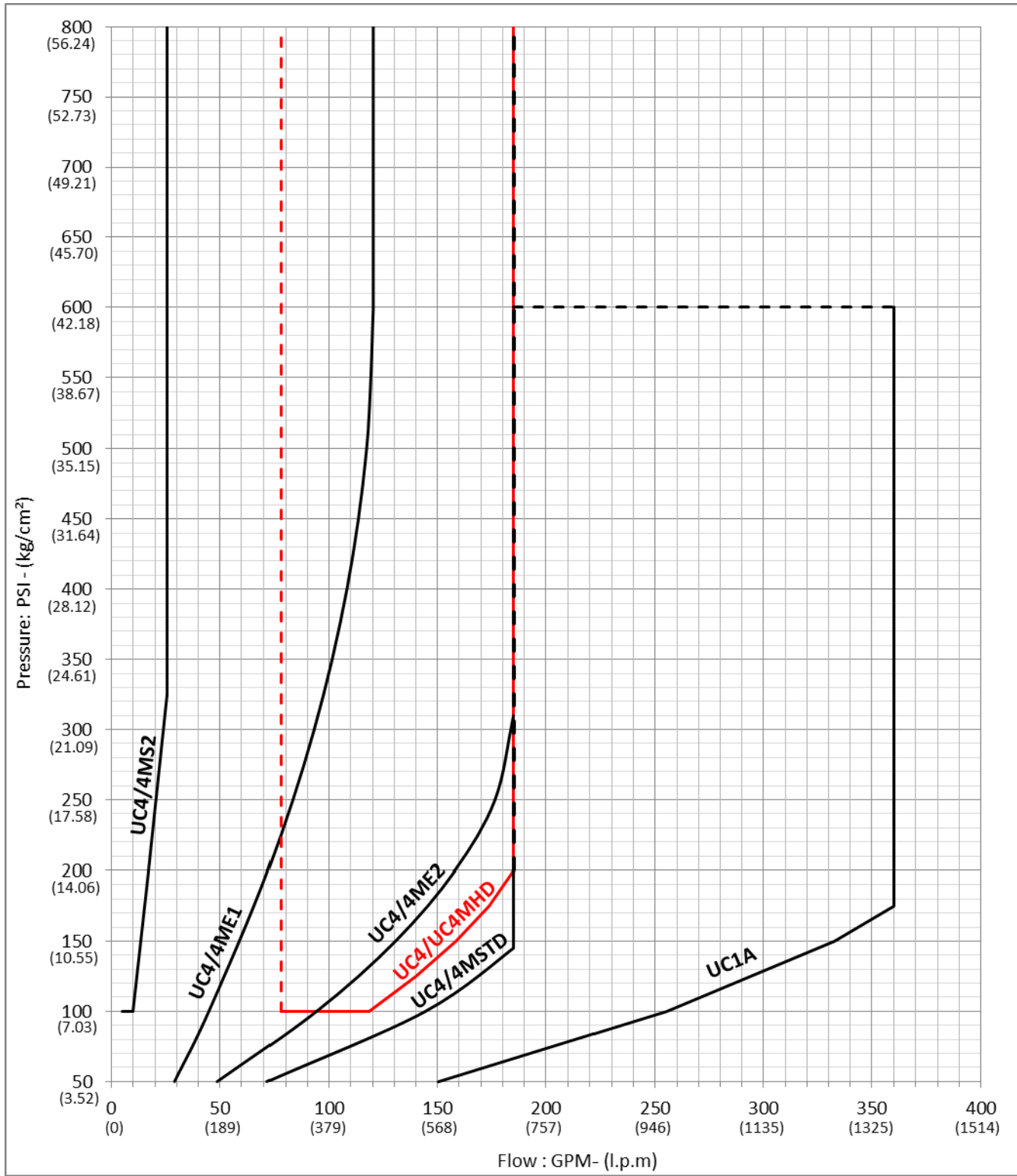
Shipping Instructions: \_\_\_\_\_ (UPS ground service can take up to 6 business days depending on your location)

Certifications  
Maxton is ISO 9001:2008 certified and all main line products are CSAB44 and UL Listed.



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UC4, UC4M, UC4HD, UC4MHD, UC1, UC1AB44



**HOW TO SELECT A VALVE:**

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

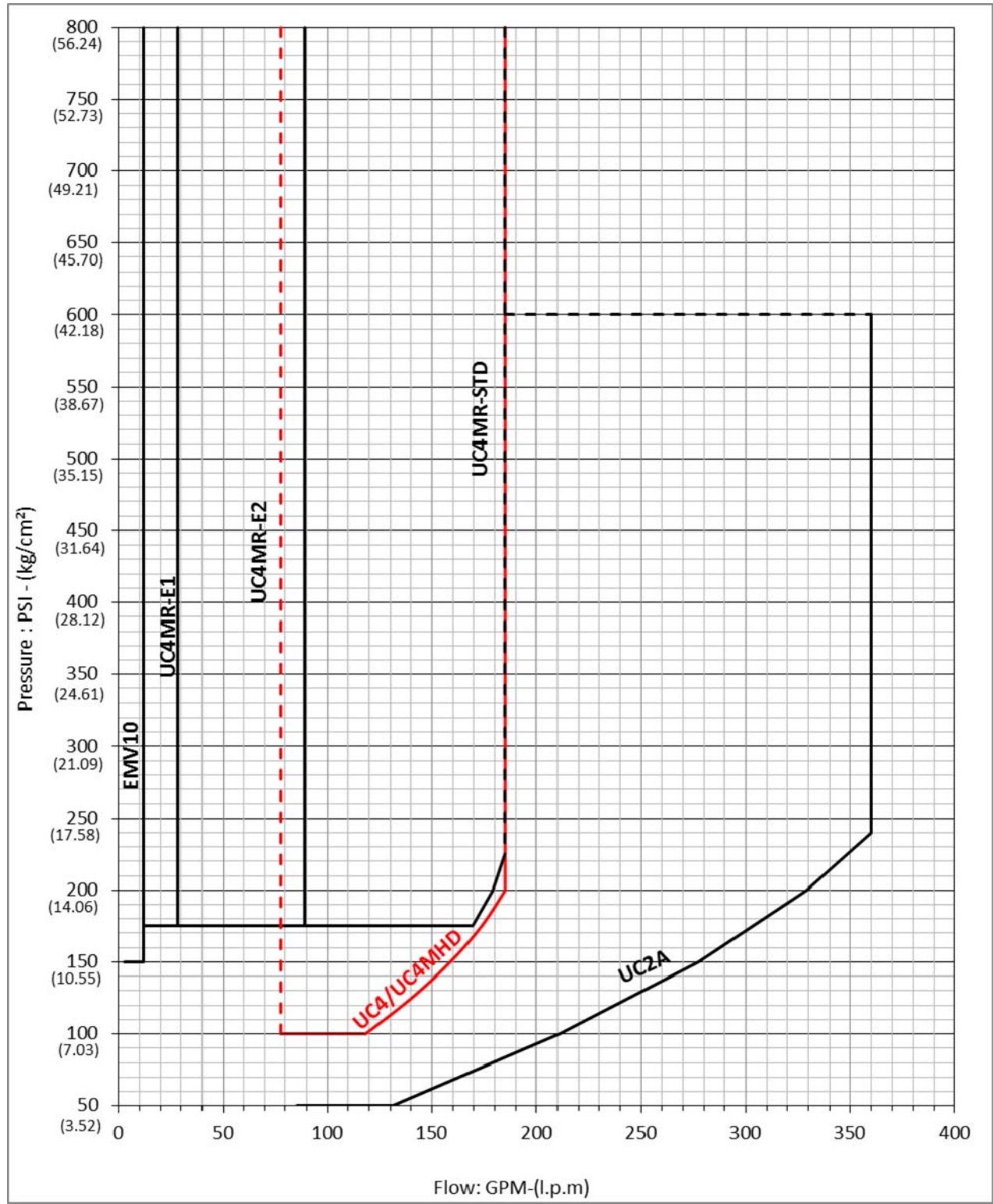
**NOTE:**

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 / UC4HD / UC4MHD 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/cm<sup>2</sup> 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 / UC4HD / UC4MHD 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
<b>1000</b>	318	204	168	141	104	80	67	63	51	43	42	35	30	26	23	20	18	14	11	8
<b>1500</b>	477	306	253	212	156	119	100	94	76	65	63	53	45	39	34	30	26	21	17	12
<b>2000</b>	637	407	337	283	208	159	133	126	102	86	84	71	60	52	45	40	35	28	23	16
<b>2500</b>	796	509	421	354	260	199	166	157	127	108	105	88	75	65	57	50	44	35	28	20
<b>3000</b>	955	611	505	424	312	239	200	189	153	129	126	106	90	78	68	60	53	42	34	24
<b>3500</b>		713	589	495	364	279	233	220	178	151	147	124	105	91	79	70	62	49	39	28
<b>4000</b>		815	673	566	416	318	266	252	204	172	168	141	121	104	91	80	70	56	45	32
<b>4500</b>		917	758	637	468	358	299	283	229	194	189	159	136	117	102	90	79	63	51	36
<b>5000</b>			842	707	520	398	333	314	255	215	210	177	151	130	113	99	88	71	56	40
<b>5500</b>			926	778	572	438	366	346	280	237	231	195	166	143	124	109	97	78	62	44
<b>6000</b>				849	624	477	399	377	306	258	253	212	181	156	136	119	106	85	68	48
<b>6500</b>				920	676	517	432	409	331	280	274	230	196	169	147	129	115	92	73	52
<b>7000</b>				990	728	557	466	440	357	301	295	248	211	182	158	139	123	99	79	56
<b>7500</b>					780	597	499	472	382	323	316	265	226	195	170	149	132	106	85	60
<b>8000</b>					832	637	532	503	407	345	337	283	241	208	181	159	141	113	90	64
<b>8500</b>					883	676	565	534	433	366	358	301	256	221	192	169	150	120	96	68
<b>9000</b>					935	716	599	566	458	388	379	318	271	234	204	179	159	127	102	72
<b>9500</b>					987	756	632	597	484	409	400	336	286	247	215	189	167	134	107	76
<b>10000</b>						796	665	629	509	431	421	354	301	260	226	199	176	141	113	80
<b>12000</b>						955	798	755	611	517	505	424	362	312	272	239	211	169	135	96
<b>14000</b>							931	880	713	603	589	495	422	364	317	279	247	198	158	112
<b>16000</b>									815	689	673	566	482	416	362	318	282	226	180	128
<b>18000</b>									917	775	758	637	542	468	407	358	317	254	203	144
<b>20000</b>										861	842	707	603	520	453	398	352	282	226	160
<b>25000</b>												884	753	650	566	497	441	353	282	200
<b>30000</b>													904	780	679	597	529	423	338	240
<b>ADD PER 100 lbs.</b>	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
<b>1</b>	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
<b>5</b>	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
<b>10</b>	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
<b>20</b>	3.26	5.10	6.17	7.34	10	13	16	17	20	24	25	29	34	40	46	52	59	74	92	130
<b>30</b>	4.90	7.65	9.26	11	15	20	23	25	31	36	37	44	52	60	69	78	88	110	138	195
<b>40</b>	6.53	10	12	15	20	26	31	33	41	48	49	59	69	80	92	104	118	147	184	260
<b>50</b>	8.16	13	15	18	25	33	39	41	51	60	62	73	86	100	115	131	147	184	230	325
<b>60</b>	9.79	15	19	22	30	39	47	50	61	72	74	88	103	120	138	157	177	221	276	390
<b>70</b>	11	18	22	26	35	46	55	58	71	84	86	103	121	140	161	183	206	258	322	455
<b>80</b>	13	20	25	29	40	52	62	66	82	97	99	118	138	160	184	209	236	295	368	520
<b>90</b>	15	23	28	33	45	59	70	74	92	109	111	132	155	180	207	235	265	331	415	585
<b>100</b>	16	26	31	37	50	65	78	83	102	121	123	147	172	200	230	261	295	368	461	650
<b>110</b>	18	28	34	40	55	72	86	91	112	133	136	162	190	220	252	287	324	405	507	715
<b>120</b>	20	31	37	44	60	78	94	99	122	145	148	176	207	240	275	313	354	442	553	780
<b>125</b>	20	32	39	46	62	82	98	103	128	151	154	184	215	250	287	326	368	460	576	813
<b>130</b>	21	33	40	48	65	85	102	107	133	157	160	191	224	260	298	339	383	479	599	845
<b>140</b>	23	36	43	51	70	91	109	116	143	169	173	206	241	280	321	366	413	516	645	910
<b>150</b>	24	38	46	55	75	98	117	124	153	181	185	220	259	300	344	392	442	552	691	975
<b>160</b>	26	41	49	59	80	104	125	132	163	193	197	235	276	320	367	418	472	589	737	1,040
<b>170</b>	28	43	52	62	85	111	133	140	173	205	210	250	293	340	390	444	501	626	783	1,106
<b>180</b>	29	46	56	66	90	118	141	149	184	217	222	264	310	360	413	470	531	663	829	1,171
<b>190</b>	31	48	59	70	95	124	148	157	194	229	234	279	328	380	436	496	560	700	875	1,236
<b>200</b>	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
<b>100</b>	3.48													
<b>200</b>	6.97	5.12	3.92											
<b>300</b>	10.45	7.68	5.88	4.65	3.76									
<b>400</b>	13.94	10.24	7.84	6.19	5.02	4.15	3.48							
<b>500</b>	17.42	12.80	9.80	7.74	6.27	5.18	4.36	4.01						
<b>1000</b>	34.85	25.60	19.60	15.49	12.54	10.37	8.71	8.03	6.40	5.58	4.90	3.87		
<b>1500</b>		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
<b>2000</b>			39.20	30.97	25.09	20.73	17.42	16.06	12.80	11.15	9.80	7.74	6.27	5.69
<b>2500</b>				38.72	31.36	25.92	21.78	20.07	16.00	13.94	12.25	9.68	7.84	7.11
<b>3000</b>				46.46	37.63	31.10	26.13	24.08	19.20	16.73	14.70	11.62	9.41	8.53
<b>3500</b>					43.90	36.29	30.49	28.10	22.40	19.51	17.15	13.55	10.98	9.96
<b>4000</b>						41.47	34.85	32.11	25.60	22.30	19.60	15.49	12.54	11.38
<b>4500</b>						46.65	39.20	36.13	28.80	25.09	22.05	17.42	14.11	12.80
<b>5000</b>							43.56	40.14	32.00	27.88	24.50	19.36	15.68	14.22
<b>5500</b>							47.91	44.16	35.20	30.66	26.95	21.29	17.25	15.64
<b>6000</b>								48.17	38.40	33.45	29.40	23.23	18.82	17.07
<b>6500</b>									41.60	36.24	31.85	25.17	20.38	18.49
<b>7000</b>									44.80	39.03	34.30	27.10	21.95	19.90
<b>7500</b>									48.00	41.81	36.75	29.04	23.52	21.33
<b>8000</b>										44.60	39.20	30.97	25.09	22.76
<b>8500</b>										47.39	41.65	32.91	26.66	24.18
<b>9000</b>											44.10	34.85	28.22	25.60
<b>9500</b>											46.55	36.78	29.79	27.02
<b>10000</b>												38.72	31.36	28.45
<b>15000</b>													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
<b>C A R S P E E D  METERS PER MINUTE</b>	<b>1</b>	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
	<b>2</b>	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
	<b>3</b>	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
	<b>4</b>	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
	<b>5</b>	14.1	19.2	25.1	31.8	39.3	47.5	56.5	61.4	77.0	88.4	101	127	157	173
	<b>10</b>	28.3	38.5	50.3	63.6	78.5	95.0	113	123	154	177	201	254	314	346
	<b>15</b>	42.4	57.7	75.4	95.4	118	143	170	184	231	265	302	382	471	520
	<b>20</b>	56.5	77.0	101	127	157	190	226	245	308	353	402	509	628	693
	<b>25</b>	70.7	96.2	126	159	196	238	283	307	385	442	503	636	785	866
	<b>30</b>	84.8	115	151	191	236	285	339	368	462	530	603	763	942	1039
	<b>35</b>	99.0	135	176	223	275	333	396	430	539	619	704	891	1100	1212
	<b>40</b>	113	154	201	254	314	380	452	491	616	707	804	1018	1257	
	<b>45</b>	127	173	226	286	353	428	509	552	693	795	905	1145		
	<b>50</b>	141	192	251	318	393	475	565	614	770	884	1005	1272		
	<b>55</b>	156	212	276	350	432	523	622	675	847	972	1106			
	<b>60</b>	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 <sup>2</sup>	cm <sup>2</sup>	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).