

Data sheet

Sheet No.: GPM 2.01 RevA

Date: September 2009

G-Series

Performance Data – (Pneumatic)

Double-Acting Actuators G-Series

Actuator Model	Displacement (cu cm) ▲		Maximum Operating Pressure (MOP)* (Bar)	Approximate Weight of Actuator (kg)
	Inboard	Outboard		
G01108	5981	5620.7	13.2	70.3
G01109	7620	7128.4	10.4	67.6
G01110	10176.3	9504.5	7.9	73.5
G01112	14715.5	13683.1	5.5	78.0
G01114	17960.2	16632.8	4.6	83.9
G2109	7620	7128.4	12.9	77.6
G2110	10176.4	9504.5	9.7	86
G2112	14715.6	13683	6.9	92
G2114	17960	16633	5.6	96.6
G2116	23646.5	21893	4.2	114.3
G3110	12306.7	12569	13.8	112.9
G3112	17911	18091.3	9.8	124.7
G3114	21909.5	22024	8.1	129.3
G3116	28448	27809	6.2	143.3
G3120	48178	43835.4	3.9	184
G4112	22188	20992	13.8	199
G4114	26973	25580	13.4	208
G4116	35593	33872	10.1	204
G4120	47277	53700	6.3	230
G4124	84328	77691	4.3	282
G4128	115611	110547	3.1	371
G5116	45261	42656	13.8	413
G5120	71825	68121	11.3	394
G5124	102108	100404	7.7	442
G5128	142059	141896	5.5	519
G5132	192040	171573	4.2	699
G5136	239054	214802	3.3	821
G7120	77675	77134	13.8	751
G7124	119904	111858	12.3	754
G7128	177341	176980	8.7	850
G7132	231484	220259	6.6	981
G7136	280252	243364	5.2	1117

▲ Maximum volume including cavity required for calculating consumption per stroke.

* **Maximum Operating Pressure (MOP)** – The maximum recommended pressure at which the actuator should be operated.

Maximum Relief Valve Set Pressure (MRP) – The maximum recommended relief pressure valve set point.

MRP is calculated by multiplying MOP times 1.15 for G-Series actuators.

Maximum System Pressure (MSP) – The maximum allowable system supply pressure to which an actuator may be exposed.

MSP is calculated by multiplying MOP times 1.25 for G-Series actuators.

• For dual cylinder models this volume equals the volume of one inboard plus one outboard.

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EMERSON
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Data sheet

Sheet No.: GPM 2.02 RevA

Date: September 2009

G-Series

Performance Data – (Pneumatic)

Double-Acting Actuators G-Series (cont.)

Actuator Model	Displacement (cu cm) ▲		Maximum Operating Pressure (MOP)* (Bar)	Approximate Weight of Actuator (kg)
	Inboard	Outboard		
• G71228	354321	354321	4.3	1200
G8124	133620	131785	13.8	1120
G8128	215293	195350	11.9	1229
G8132	281710	258768	9.0	1276
G8136	356992	329380	7.1	1492
G8140	441123	409562	5.8	1605
• G81232	540478	540478	4.5	1746
• G81236	686372	686372	3.6	2109
G10128	302538	278170	13.8	1724
G10132	348586	320367	13.8	1791
G10136	442090	417723	10.9	2018
G10140	546591	519126	8.8	2140
• G101232	668953	668953	6.9	2409
• G101236	859813	859813	5.5	2862
• G101240	1065700	1065700	4.4	3107
G13140	725029	719785	13.8	3415
G13144	884213	873004	11.4	3603
G13148	1058555	1040824	9.7	3830
G13152	1248055	1223262	8.3	4061
• G131240	1444815	1444815	6.9	4534
• G131244	1757218	1757218	5.7	4927
• G131248	2099380	2099380	4.8	5364
• G131252	2471317	2471317	4.1	5844

▲ Maximum volume including cavity required for calculating consumption per stroke.

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Maximum Relief Valve Set Pressure (MRP) – The maximum recommended relief pressure valve set point.

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EMERSON
Process Management

Data sheet

Sheet No.: GPM 2.03 RevA

Date: September 2009

G-Series

Performance Data – (Pneumatic)

Spring-Return Actuators G-Series

Actuator Model	Volume Per Stroke (cu cm) ▲	Maximum Operating Pressure (MOP)* (Bar)	Approximate Weight of Actuator (kg)
G01108-SR4	5981	13.2	133.8
SR3	5981	13.2	137.9
SR2	5981	13.2	140.2
SR1	5981	13.2	141.1
G01109-SR4	7620	13.8	131.1
SR3	7620	13.8	135.2
SR2	7620	13.8	137.4
SR1	7620	13.8	138.3
G01110-SR4	10176	11.5	137.0
SR3	10176	11.5	141.1
SR2	10176	11.5	143.3
SR1	10176	11.5	144.2
G01112-SR4	14716	8.0	141.5
SR3	14716	8.0	145.6
SR2	14716	8.0	147.9
SR1	14716	8.0	148.8
G01114-SR4	17960	6.7	147.4
SR3	17960	6.7	151.5
SR2	17960	6.7	153.8
SR1	17960	6.7	154.7
G2109-SR6	7620	12.9	147
SR5	7620	12.9	165
SR4	7620	12.9	165
SR3	7620	12.9	172
SR2	7620	12.9	172
SR1	7620	12.9	176.4
G2110-SR6	10176	9.7	156
SR5	10176	9.7	174
SR4	10176	9.7	174
SR3	10176	9.7	181
SR2	10176	9.7	181
SR1	10176	9.7	185.5
G2112-SR6	14716	6.9	161.5
SR5	14716	6.9	179.6
SR4	14716	6.9	179.6
SR3	14716	6.9	186.4
SR2	14716	6.9	186.4
SR1	14716	6.9	191
Actuator Model	Volume Per Stroke (cu cm) ▲	Maximum Operating Pressure (MOP)* (Bar)	Approximate Weight of Actuator (kg)

Actuator Model	Volume Per Stroke (cu cm) ▲	Maximum Operating Pressure (MOP)* (Bar)	Approximate Weight of Actuator (kg)
G2114-SR6	17960	5.6	166
SR5	17960	5.6	184
SR4	17960	5.6	184
SR3	17960	5.6	191
SR2	17960	5.6	191
SR1	17960	5.6	195.5
G2116-SR6	23647	4.2	183.7
SR5	23647	4.2	202
SR4	23647	4.2	202
SR3	23647	4.2	208.6
SR2	23647	4.2	208.6
SR1	23647	4.2	213
G3110-SR4	12307	13.8	238
SR3	12307	13.8	245
SR2	12307	13.8	251.7
SR1	12307	13.8	256
G3112-SR4	17911	9.8	250
SR3	17911	9.8	256.7
SR2	17911	9.8	263.5
SR1	17911	9.8	268
G3114-SR4	21910	8.1	254.4
SR3	21910	8.1	261
SR2	21910	8.1	268
SR1	21910	8.1	272.6
G3116-SR4	28448	6.2	268.5
SR3	28448	6.2	275.3
SR2	28448	6.2	282
SR1	28448	6.2	286.6
G3120-SR4	48178	3.9	309.3
SR3	48178	3.9	316
SR2	48178	3.9	323
SR1	48178	3.9	327.4
G4112-SR4	20992	13.8	401
SR3	20992	13.8	428
SR2	20992	13.8	435
Actuator Model	Volume Per Stroke (cu cm) ▲	Maximum Operating Pressure (MOP)* (Bar)	Approximate Weight of Actuator (kg)

▲ Maximum volume including cavity required for calculating consumption per stroke.

* **Maximum Operating Pressure (MOP)** – The maximum recommended pressure at which the actuator should be operated.

Maximum Relief Valve Set Pressure (MRP) – The maximum recommended relief pressure valve set point.

MRP is calculated by multiplying MOP times 1.15 for G-Series actuators.

Maximum System Pressure (MSP) – The maximum allowable system supply pressure to which an actuator may be exposed.

MSP is calculated by multiplying MOP times 1.25 for G-Series actuators.

• For dual cylinder models this volume equals the volume of one inboard plus one outboard.

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Process Management

Data sheet

Sheet No.: GPM 2.04 RevA

Date: September 2009

G-Series

Performance Data – (Pneumatic)

Spring-Return Actuators

G-Series (cont.)

Actuator Model	Volume Per Stroke (cu cm) ▲	Maximum Operating Pressure (MOP)* (Bar)	Approximate Weight of Actuator (kg)
G4114-SR4	25580	13.4	410
SR3	25580	13.4	436
SR2	25580	13.4	444
SR1	25580	13.4	448
G4116-SR4	33872	10.1	426
SR3	33872	10.1	453
SR2	33872	10.1	460
SR1	33872	10.1	467
G4120-SR4	53700	6.3	440
SR3	53700	6.3	467
SR2	53700	6.3	474
SR1	53700	6.3	480
G4124-SR4	77691	4.3	492
SR3	77691	4.3	519
SR2	77691	4.3	526
SR1	77691	4.3	533
G4128-SR3	110547	3.1	600
SR2	110547	3.1	603
SR1	110547	3.1	607
G5116-SR4	42656	13.8	770
SR3	42656	13.8	799
SR2	42656	13.8	825
G5120-SR4	68121	11.3	776
SR3	68121	11.3	805
SR2	68121	11.3	830
SR1	68121	11.3	828
G5124-SR4	100404	7.7	823
SR3	100404	7.7	853
SR2	100404	7.7	878
SR1	100404	7.7	875
G5128-SR4	141896	5.5	899
SR3	141896	5.5	928
SR2	141896	5.5	953
SR1	141896	5.5	951
Actuator Model	Volume Per Stroke (cu cm) ▲	Maximum Operating Pressure (MOP)* (Bar)	Approximate Weight of Actuator (kg)

Actuator Model	Volume Per Stroke (cu cm) ▲	Maximum Operating Pressure (MOP)* (Bar)	Approximate Weight of Actuator (kg)
G5132-SR4	171573	4.2	1080
SR3	171573	4.2	1109
SR2	171573	4.2	1134
SR1	171573	4.2	1132
G5136-SR3	214785	3.3	1231
SR2	214785	3.3	1256
SR1	214785	3.3	1254
G7120-SR4	77134	13.8	1239
SR3	77134	13.8	1176
G7124-SR4	111858	12.3	1245
SR3	111858	12.3	1183
SR2	111858	12.3	1295
SR1	111858	12.3	1232
G7128-SR4	176980	8.7	1341
SR3	176980	8.7	1278
SR2	176980	8.7	1390
SR1	176980	8.7	1327
G7132-SR4	220259	6.6	1472
SR3	220259	6.6	1410
SR2	220259	6.6	1521
SR1	220259	6.6	1458
G7136-SR4	243364	5.2	1608
SR3	243364	5.2	1546
SR2	243364	5.2	1657
SR1	243364	5.2	1594
G71T28-SR3	353961	4.3	2021
SR2	353961	4.3	2185
SR1	353961	4.3	2146
G8124-SR3	132784	13.8	2252
SR2	132784	13.8	2325
SR1	132784	13.8	2457
G8128-SR3	195350	11.9	2361
SR2	195350	11.9	2433
SR1	195350	11.9	2565
G8132-SR3	258768	9.0	2413
SR2	258768	9.0	2486
SR1	258768	9.0	2618
Actuator Model	Volume Per Stroke (cu cm) ▲	Maximum Operating Pressure (MOP)* (Bar)	Approximate Weight of Actuator (kg)

▲ Maximum volume including cavity required for calculating consumption per stroke.

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Data sheet

Sheet No.: GPM 2.05 RevA

Date: September 2009

G-Series

Performance Data – (Pneumatic)

Spring-Return Actuators

G-Series (cont.)

Actuator Model	Volume Per Stroke (cu cm) ▲	Maximum Operating Pressure (MOP)* (Bar)	Approximate Weight of Actuator (kg)
G8136-SR3	329380	7.1	2624
SR2	329380	7.1	2697
SR1	329380	7.1	2829
G8140-SR3	409562	5.8	2737
SR2	409562	5.8	2810
SR1	409562	5.8	2942
G81T32-SR3	517536	4.5	2907
SR2	517536	4.5	2980
SR1	517536	4.5	3112
G81T36-SR3	658760	3.6	3270
SR2	658760	3.6	3343
SR1	658760	3.6	3475
G10128-SR4	278170	13.8	3384
SR3	278170	13.8	3547
SR2	278170	13.8	3724
G10132-SR4	320367	13.8	3406
SR3	320367	13.8	3570
SR2	320367	13.8	3747
SR1	320367	13.8	3955
G10136-SR4	417723	10.9	3633
SR3	417723	10.9	3796
SR2	417723	10.9	3973
SR1	417723	10.9	4182
G10140-SR4	519126	8.8	3756
SR3	519126	8.8	3919
SR2	519126	8.8	4096
SR1	519126	8.8	4304
G101T32-SR4	640734	6.9	3964
SR3	640734	6.9	4128
SR2	640734	6.9	4304
SR1	640734	6.9	4513
G101T36-SR4	835445	5.5	4363
SR3	835445	5.5	4527
SR2	835445	5.5	4704
SR1	835445	5.5	4912
Actuator Model	Volume Per Stroke (cu cm) ▲	Maximum Operating Pressure (MOP)* (Bar)	Approximate Weight of Actuator (kg)

Actuator Model	Volume Per Stroke (cu cm) ▲	Maximum Operating Pressure (MOP)* (Bar)	Approximate Weight of Actuator (kg)
G101T40-SR4	1038252	4.4	4572
SR3	1038252	4.4	4735
SR2	1038252	4.4	4912
SR1	1038252	4.4	5121
G13140-SR4	725029	13.8	6647
SR3	725029	13.8	6980
SR2	725029	13.8	7531
SR1	725029	13.8	7864
G13144-SR4	884213	11.4	6834
SR3	884213	11.4	7168
SR2	884213	11.4	7719
SR1	884213	11.4	8052
G13148-SR4	1058555	9.7	7062
SR3	1058555	9.7	7395
SR2	1058555	9.7	7946
SR1	1058555	9.7	8279
G13152-SR4	1248055	8.3	7293
SR3	1248055	8.3	7626
SR2	1248055	8.3	8177
SR1	1248055	8.3	8510
G131T40-SR4	1488650	6.9	7599
SR3	1488650	6.9	7932
SR2	1488650	6.9	8483
SR1	1488650	6.9	8816
G131T44-SR4	1816850	5.7	7989
SR3	1816850	5.7	8322
SR2	1816850	5.7	8873
SR1	1816850	5.7	9206
G131T48-SR4	2176432	4.8	8386
SR3	2176432	4.8	8719
SR2	2176432	4.8	9270
SR1	2176432	4.8	9604
G131T52-SR4	2567394	4.1	8726
SR3	2567394	4.1	9059
SR2	2567394	4.1	9610
SR1	2567394	4.1	9943
Actuator Model	Volume Per Stroke (cu cm) ▲	Maximum Operating Pressure (MOP)* (Bar)	Approximate Weight of Actuator (kg)

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