

**Recommended Use Range**

**Unrecommended Use Range**

**2PSI SPRING INSTALLED IN MVI 2.5 & MVI 2.5D**

M6 X 1.0 Stem					1/4 X 28 Stem				
Actuator Displacement			Pressure		Actuator Displacement			Pressure	
Turns	inch	mm	psi	bar	Turns	inch	mm	psi	bar
0	0.00	0	1.9	0.13	0	0.00	0	1.9	0.13
1	0.04	1.0	2.1	0.14	1	0.04	0.9	2.1	0.14
2	0.08	2.0	2.2	0.15	2	0.07	1.8	2.2	0.15
3	0.12	3.0	2.4	0.16	3	0.11	2.7	2.3	0.16
4	0.16	4.0	2.5	0.18	4	0.14	3.6	2.5	0.17
5	0.20	5.0	2.7	0.19	5	0.18	4.4	2.6	0.18
6	0.24	6.0	2.8	0.20	6	0.21	5.3	2.7	0.19
7	0.28	7.0	3.0	0.21	7	0.25	6.2	2.9	0.20
8	0.31	8.0	3.2	0.22	8	0.28	7.1	3.0	0.21
9	0.35	9.0	3.3	0.23	9	0.32	8.0	3.2	0.22
10	0.39	10.0	3.5	0.24	10	0.35	8.9	3.3	0.23

**4PSI SPRING INSTALLED IN MVI 2.5 & MVI 2.5D**

M6 X 1.0 Stem					1/4 X 28 Stem				
Actuator Displacement			Pressure		Actuator Displacement			Pressure	
Turns	inch	mm	psi	bar	Turns	inch	mm	psi	bar
0	0.00	0	3.9	0.27	0	0.00	0	3.9	0.27
1	0.04	1.0	4.0	0.28	1	0.04	0.9	4.0	0.28
2	0.08	2.0	4.2	0.29	2	0.07	1.8	4.1	0.28
3	0.12	3.0	4.3	0.30	3	0.11	2.7	4.3	0.29
4	0.16	4.0	4.5	0.31	4	0.14	3.6	4.4	0.30
5	0.20	5.0	4.6	0.32	5	0.18	4.4	4.5	0.31
6	0.24	6.0	4.8	0.33	6	0.21	5.3	4.7	0.32
7	0.28	7.0	4.9	0.34	7	0.25	6.2	4.8	0.33
8	0.31	8.0	5.1	0.35	8	0.28	7.1	4.9	0.34
9	0.35	9.0	5.2	0.36	9	0.32	8.0	5.1	0.35
10	0.39	10.0	5.4	0.37	10	0.35	8.9	5.2	0.36

**6PSI SPRING INSTALLED IN MVI 2.5 & MVI 2.5D**

<b>M6 X 1.0 Stem</b>					<b>1/4 X 28 Stem</b>				
Actuator Displacement			Pressure		Actuator Displacement			Pressure	
Turns	inch	mm	psi	bar	Turns	inch	mm	psi	bar
0	0.00	0	6.3	0.43	0	0.00	0	6.3	0.43
1	0.04	1.0	6.5	0.45	1	0.04	0.9	6.5	0.45
2	0.08	2.0	6.8	0.47	2	0.07	1.8	6.7	0.46
3	0.12	3.0	7.0	0.48	3	0.11	2.7	6.9	0.48
4	0.16	4.0	7.3	0.50	4	0.14	3.6	7.2	0.49
5	0.20	5.0	7.5	0.52	5	0.18	4.4	7.4	0.51
6	0.24	6.0	7.8	0.54	6	0.21	5.3	7.6	0.53
7	0.28	7.0	8.1	0.56	7	0.25	6.2	7.9	0.54
8	0.31	8.0	8.3	0.57	8	0.28	7.1	8.1	0.56
9	0.35	9.0	8.6	0.59	9	0.32	8.0	8.3	0.57
10	0.39	10.0	8.8	0.61	10	0.35	8.9	8.5	0.59

**8PSI SPRINGS INSTALLED IN MVI 2.5 & MVI 2.5D**

<b>M6 X 1.0 Stem</b>					<b>1/4 X 28 Stem</b>				
Actuator Displacement			Pressure		Actuator Displacement			Pressure	
Turns	inch	mm	psi	bar	Turns	inch	mm	psi	bar
0	0.00	0	8.2	0.57	0	0.00	0	8.2	0.57
1	0.04	1.0	8.6	0.59	1	0.04	0.9	8.6	0.59
2	0.08	2.0	9.0	0.62	2	0.07	1.8	8.9	0.62
3	0.12	3.0	9.4	0.65	3	0.11	2.7	9.3	0.64
4	0.16	4.0	9.8	0.68	4	0.14	3.6	9.6	0.67
5	0.20	5.0	10.2	0.71	5	0.18	4.4	10.0	0.69
6	0.24	6.0	10.6	0.73	6	0.21	5.3	10.4	0.72
7	0.28	7.0	11.1	0.76	7	0.25	6.2	10.7	0.74
8	0.31	8.0	11.5	0.79	8	0.28	7.1	11.1	0.77
9	0.35	9.0	11.9	0.82	9	0.32	8.0	11.5	0.79
10	0.39	10.0	12.3	0.85	10	0.35	8.9	11.8	0.82

10PSI SPRINGS INSTALLED IN MVI 2.5 & MVI 2.5D									
M6 X 1.0 Stem					1/4 X 28 Stem				
Actuator Displacement			Pressure		Actuator Displacement			Pressure	
Turns	inch	mm	psi	bar	Turns	inch	mm	psi	bar
0	0.00	0	10.1	0.70	0	0.00	0	10.1	0.70
1	0.04	1.0	10.5	0.73	1	0.04	0.9	10.5	0.72
2	0.08	2.0	10.9	0.75	2	0.07	1.8	10.9	0.75
3	0.12	3.0	11.3	0.78	3	0.11	2.7	11.2	0.77
4	0.16	4.0	11.8	0.81	4	0.14	3.6	11.6	0.80
5	0.20	5.0	12.2	0.84	5	0.18	4.4	11.9	0.82
6	0.24	6.0	12.6	0.87	6	0.21	5.3	12.3	0.85
7	0.28	7.0	13.0	0.89	7	0.25	6.2	12.7	0.87
8	0.31	8.0	13.4	0.92	8	0.28	7.1	13.0	0.90
9	0.35	9.0	13.8	0.95	9	0.32	8.0	13.4	0.92
10	0.39	10.0	14.2	0.98	10	0.35	8.9	13.8	0.95

12PSI SPRING INSTALLED IN MVI 2.5 & MVI 2.5D									
M6 X 1.0 Stem					1/4 X 28 Stem				
Actuator Displacement			Pressure		Actuator Displacement			Pressure	
Turns	inch	mm	psi	bar	Turns	inch	mm	psi	bar
0	0.00	0	11.8	0.81	0	0.00	0	11.8	0.81
1	0.04	1.0	12.7	0.88	1	0.04	0.9	12.6	0.87
2	0.08	2.0	13.6	0.94	2	0.07	1.8	13.4	0.93
3	0.12	3.0	14.5	1.00	3	0.11	2.7	14.2	0.98
4	0.16	4.0	15.4	1.06	4	0.14	3.6	15.0	1.04
5	0.20	5.0	16.3	1.13	5	0.18	4.4	15.8	1.09
6	0.24	6.0	17.2	1.19	6	0.21	5.3	16.6	1.15
7	0.28	7.0	18.1	1.25	7	0.25	6.2	17.4	1.20
8	0.31	8.0	19.0	1.31	8	0.28	7.1	18.2	1.26
9	0.35	9.0	20.0	1.38	9	0.32	8.0	19.1	1.31
10	0.39	10.0	20.9	1.44	10	0.35	8.9	19.9	1.37

14PSI SPRINGS INSTALLED IN MVI 2.5 & MVI 2.5D									
M6 X 1.0 Stem					1/4 X 28 Stem				
Actuator Displacement			Pressure		Actuator Displacement			Pressure	
Turns	inch	mm	psi	bar	Turns	inch	mm	psi	bar
0	0.00	0	13.7	0.95	0	0.00	0	13.7	0.95
1	0.04	1.0	14.8	1.02	1	0.04	0.9	14.7	1.01
2	0.08	2.0	15.9	1.09	2	0.07	1.8	15.6	1.08
3	0.12	3.0	16.9	1.17	3	0.11	2.7	16.6	1.14
4	0.16	4.0	18.0	1.24	4	0.14	3.6	17.5	1.21
5	0.20	5.0	19.0	1.31	5	0.18	4.4	18.4	1.27
6	0.24	6.0	20.1	1.38	6	0.21	5.3	19.4	1.34
7	0.28	7.0	21.1	1.46	7	0.25	6.2	20.3	1.40
8	0.31	8.0	22.2	1.53	8	0.28	7.1	21.3	1.47
9	0.35	9.0	23.3	1.60	9	0.32	8.0	22.2	1.53
10	0.39	10.0	24.3	1.68	10	0.35	8.9	23.1	1.60

16PSI SPRINGS INSTALLED IN MVI 2.5 & MVI 2.5D									
M6 X 1.0 Stem					1/4 X 28 Stem				
Actuator Displacement			Pressure		Actuator Displacement			Pressure	
Turns	inch	mm	psi	bar	Turns	inch	mm	psi	bar
0	0.00	0	15.7	1.08	0	0.00	0	15.7	1.08
1	0.04	1.0	16.7	1.15	1	0.04	0.9	16.6	1.15
2	0.08	2.0	17.8	1.23	2	0.07	1.8	17.6	1.21
3	0.12	3.0	18.8	1.30	3	0.11	2.7	18.5	1.27
4	0.16	4.0	19.9	1.37	4	0.14	3.6	19.4	1.34
5	0.20	5.0	21.0	1.44	5	0.18	4.4	20.4	1.40
6	0.24	6.0	22.0	1.52	6	0.21	5.3	21.3	1.47
7	0.28	7.0	23.1	1.59	7	0.25	6.2	22.3	1.53
8	0.31	8.0	24.1	1.66	8	0.28	7.1	23.2	1.60
9	0.35	9.0	25.2	1.74	9	0.32	8.0	24.1	1.66
10	0.39	10.0	26.2	1.81	10	0.35	8.9	25.1	1.73

18PSI SPRINGS INSTALLED IN MVI 2.5 & MVI 2.5D									
M6 X 1.0 Stem					1/4 X 28 Stem				
Actuator Displacement			Pressure		Actuator Displacement			Pressure	
Turns	inch	mm	psi	bar	Turns	inch	mm	psi	bar
0	0.00	0	18.1	1.25	0	0.00	0	18.1	1.25
1	0.04	1.0	19.2	1.33	1	0.04	0.9	19.1	1.32
2	0.08	2.0	20.4	1.41	2	0.07	1.8	20.1	1.39
3	0.12	3.0	21.6	1.49	3	0.11	2.7	21.2	1.46
4	0.16	4.0	22.7	1.57	4	0.14	3.6	22.2	1.53
5	0.20	5.0	23.9	1.65	5	0.18	4.4	23.2	1.60
6	0.24	6.0	25.0	1.73	6	0.21	5.3	24.3	1.67
7	0.28	7.0	26.2	1.81	7	0.25	6.2	25.3	1.74
8	0.31	8.0	27.4	1.89	8	0.28	7.1	26.3	1.82
9	0.35	9.0	28.5	1.97	9	0.32	8.0	27.4	1.89
10	0.39	10.0	29.7	2.05	10	0.35	8.9	28.4	1.96

20PSI SPRINGS INSTALLED IN MVI 2.5 & MVI 2.5D									
M6 X 1.0 Stem					1/4 X 28 Stem				
Actuator Displacement			Pressure		Actuator Displacement			Pressure	
Turns	inch	mm	psi	bar	Turns	inch	mm	psi	bar
0	0.00	0	20.0	1.38	0	0.00	0	20.0	1.38
1	0.04	1.0	21.3	1.47	1	0.04	0.9	21.2	1.46
2	0.08	2.0	22.6	1.56	2	0.07	1.8	22.3	1.54
3	0.12	3.0	23.9	1.65	3	0.11	2.7	23.5	1.62
4	0.16	4.0	25.3	1.74	4	0.14	3.6	24.7	1.70
5	0.20	5.0	26.6	1.83	5	0.18	4.4	25.8	1.78
6	0.24	6.0	27.9	1.92	6	0.21	5.3	27.0	1.86
7	0.28	7.0	29.2	2.01	7	0.25	6.2	28.2	1.94
8	0.31	8.0	30.5	2.10	8	0.28	7.1	29.3	2.02
9	0.35	9.0	31.8	2.19	9	0.32	8.0	30.5	2.10
10	0.39	10.0	33.1	2.28	10	0.35	8.9	31.7	2.18

**22PSI SPRINGS INSTALLED IN MVI 2.5 & MVI 2.5D**

<b>M6 X 1.0 Stem</b>					<b>1/4 X 28 Stem</b>				
Actuator Displacement			Pressure		Actuator Displacement			Pressure	
Turns	inch	mm	psi	bar	Turns	inch	mm	psi	bar
0	0.00	0	21.9	1.51	0	0.00	0	21.9	1.51
1	0.04	1.0	23.3	1.60	1	0.04	0.9	23.1	1.59
2	0.08	2.0	24.6	1.69	2	0.07	1.8	24.3	1.67
3	0.12	3.0	25.9	1.78	3	0.11	2.7	25.4	1.75
4	0.16	4.0	27.2	1.87	4	0.14	3.6	26.6	1.83
5	0.20	5.0	28.5	1.97	5	0.18	4.4	27.8	1.91
6	0.24	6.0	29.8	2.06	6	0.21	5.3	28.9	2.00
7	0.28	7.0	31.1	2.15	7	0.25	6.2	30.1	2.08
8	0.31	8.0	32.4	2.24	8	0.28	7.1	31.3	2.16
9	0.35	9.0	33.7	2.33	9	0.32	8.0	32.4	2.24
10	0.39	10.0	35.1	2.42	10	0.35	8.9	33.6	2.32