

PORTER®



MANIFOLD SYSTEMS

CYLINDERS AND
ACCESSORIES

METROL





INTRODUCTION

METROL MANIFOLD CYLINDERS

DESIGNED AND MANUFACTURED
FOR MAXIMUM DURABILITY.

- ▣ Special polyurethane bore seals designed for long life and lubrication retention.
- ▣ Lubrication system maintaining long term lubricity of sealing bore and seal lip.
- ▣ Guidance system designed to improve resistance to side loading.
- ▣ Resistant to draw fluid and debris ingress which can damage sealing components.
- ▣ Hard wearing corrosion resistant bore surface for long life and effective overhaul.
- ▣ Special 'Y' dimensions available.

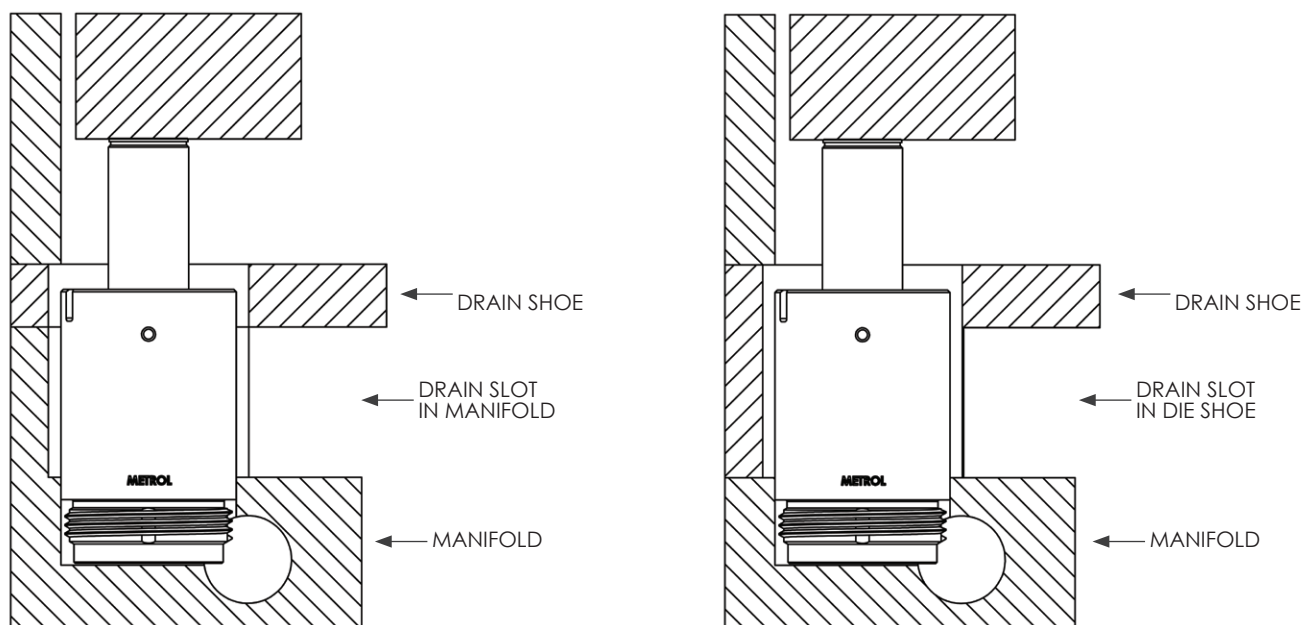
DESIGNED AND
MANUFACTURED
IN THE UK BY
METROL SPRINGS

WWW.PORTERPUNCH.COM

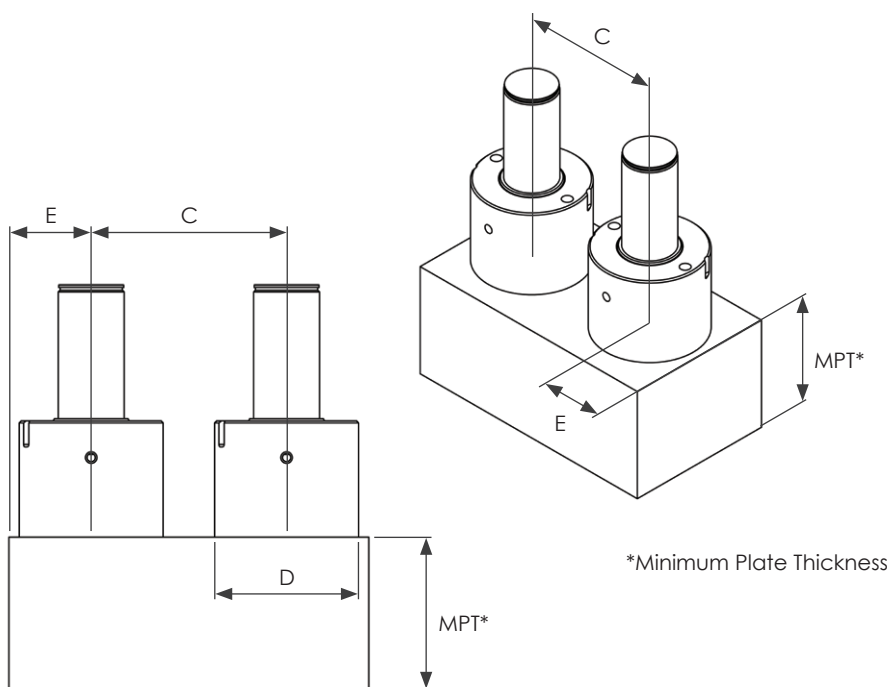
Distributed &
Supported Worldwide



DRAIN SLOTS



CYLINDER LOCATION



*Minimum Plate Thickness

STANDARD 1500PSI

Cylinder Tonnage	Cylinder Diameter D	Minimum Ctr. Distance C	Minimum Edge Distance E
1.5 Ton	1.60 in. 41mm	2.00 in. 51mm	0.94 in. 24mm
1 Ton	2.12 in. 54mm	2.38 in. 60mm	1.25 in. 32mm
2.5 Ton	2.75 in. 70mm	3.00 in. 76mm	1.56 in. 40mm
4 Ton	3.56 in. 90mm	3.75 in. 95mm	2.13 in. 54mm
6 Ton	4.31 in. 109mm	4.45 in. 114mm	2.50 in. 64mm

HIGH PRESSURE 2000PSI

Cylinder Tonnage	Cylinder Diameter D	Minimum Ctr. Distance C	Minimum Edge Distance E
0.75 Ton	1.60 in. 41mm	2.00 in. 51mm	1.02 in. 26mm
1.5 Ton	2.12 in. 54mm	2.75 in. 70mm	1.43 in. 37mm
3 Ton	2.75 in. 70mm	3.50 in. 89mm	1.89 in. 48mm
5 Ton	3.56 in. 90mm	4.50 in. 115mm	2.44 in. 62mm
8 Ton	4.31 in. 109mm	5.38 in. 137mm	3.00 in. 77mm



PORTER

CYLINDER STYLES



MMC

BASIC AND MOST WIDELY
USED CYLINDER DESIGN



MMCD

SHORTER CYLINDER
WHERE LIMITED SPACE IS
AVAILABLE ABOVE THE
MANIFOLD PLATE



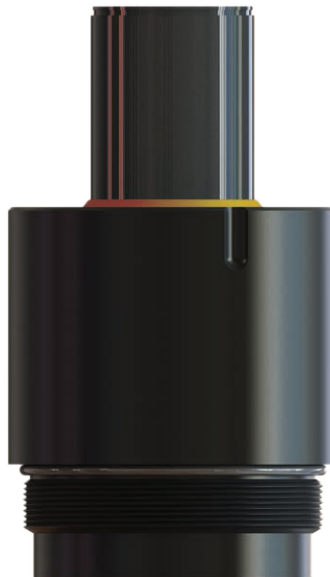
MMCSB

MINIMAL HEIGHT
ABOVE MANIFOLD
PLATE



MMCGM

HEX HEAD DESIGN FOR
EASY REMOVAL AND
SERVICE OF CLINDER



HS-MMC

A COATED
PISTON AND METAL
SCRAPER PREVENTS
EXCESSIVE DEBRIS FROM
DAMAGING CYLINDERS
AND SEALS



FP-MMC

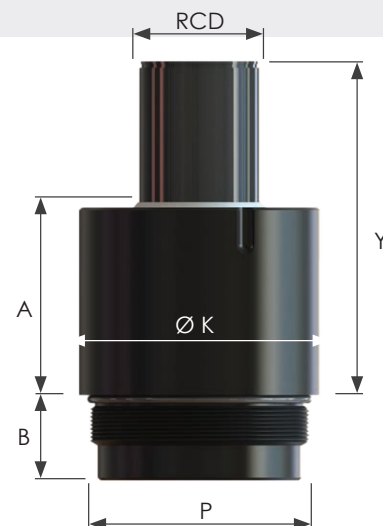
PREVENTS AND
EXHAUSTS EXCESSIVE
FLUIDS FROM
INGRESSING INTO THE
MANIFOLD PLATE



DIMENSIONAL INFORMATION

FORCE 1500 PSI	FORCE 2000 PSI	MAX STD. STROKE LENGTHS	K	P	ROD CLEARANCE DIAMETER RCD	B
MMC0500 .5 TON	MMC0750 .75 TON	4.00 in. 102 mm	1.60 in. 41 mm	1-5/16-12	0.85 in. 22 mm	0.88 in. 22 mm
MMC1000 1 TON	MMC1500 1.5 TON	5.00 in. 127 mm	2.12 in. 54 mm	1-7/8-12	1.08 in. 27mm	0.72 in. 18 mm
MMC2500 2.5 TON	MMC3000 3 TON	6.00 in. 152 mm	2.75 in. 70 mm	2-1/2-12	1.38 in. 35 mm	1.0 in. 25 mm
MMC4000 4 TON	MMC5000 5 TON	7.00 in. 178 mm	3.56 in. 90 mm	M82X2 3-1/4-12*	1.86 in. 47 mm	1.25 in. 32 mm
MMC6000 6 TON	MMC8000 8 TON	8.00 in. 203 mm	4.31 in. 109 mm	M100X2 4-12*	2.51 in. 64 mm	1.25 in. 32 mm

*Inch threads available
MMC4000-2.0-IT



FOR SPECIAL 'Y'
DIMENSIONS PLEASE REFER
TO PAGE 10.

DIMENSIONAL WITH STROKE

STROKE	MMC0500/0750				MMC1000/1500				MMC2500/3000				MMC4000/5000				MMC6000/8000			
	Y	A	0500 MPT*	0750 MPT*	Y	A	1000 MPT*	1500 MPT*	Y	A	2500 MPT*	3000 MPT*	Y	A	4000 MPT*	5000 MPT*	Y	A	6000 MPT*	8000 MPT*
0.25 in. 6 mm	1.16 29	0.91 23	1.75 44	1.88 48																
0.50 in. 13 mm	1.66 42	1.16 29	1.75 44	1.88 48	1.91 48	1.41 36	1.75 44	1.94 49	1.91 48	1.41 36	2.00 51	2.18 55	1.91 48	1.41 36	2.00 51	2.25 57	1.91 48	1.41 36	2.50 64	2.88 73
0.75 in. 19 mm	2.16 55	1.41 36	1.75 44	1.88 48	2.41 61	1.66 42	1.75 44	1.94 49	2.41 61	1.66 42	2.00 51	2.18 55	2.41 61	1.66 42	2.00 51	2.25 57	2.41 61	1.66 42	2.50 64	2.88 73
1.00 in. 25 mm	2.66 68	1.66 42	1.75 44	1.88 48	2.91 74	1.91 49	1.91 49	1.91 49	2.91 74	1.91 49	2.00 51	2.18 55	2.91 74	1.91 49	2.00 51	2.25 57	2.91 74	1.91 49	2.50 64	2.88 73
1.50 in. 38 mm	3.66 93	2.16 55	1.75 44	1.88 48	3.91 99	2.41 61	1.75 44	1.94 49	3.91 99	2.41 61	2.00 51	2.18 55	3.91 99	2.41 61	2.00 51	2.25 57	3.91 99	2.41 61	2.50 64	2.88 73
2.00 in. 51 mm	4.66 118	2.66 68	1.75 44	1.88 48	4.91 125	2.91 74	1.75 44	1.94 49	4.91 125	2.91 74	2.00 51	2.18 55	4.91 125	2.91 74	2.00 51	2.25 57	4.91 125	2.91 74	2.50 64	2.88 73
2.50 in. 64 mm	5.66 144	3.16 80	1.75 44	1.88 48	5.91 150	3.41 87	1.75 44	1.94 49	5.91 150	3.41 87	2.00 51	2.18 55	5.91 150	3.41 87	2.00 51	2.25 57	5.91 150	3.41 87	2.50 64	2.88 73
3.00 in. 76 mm	6.66 169	3.66 93	1.75 44	1.88 48	6.91 176	3.91 99	1.75 44	1.94 49	6.91 176	3.91 99	2.00 51	2.18 55	6.91 176	3.91 99	2.00 51	2.25 57	6.91 176	3.91 99	2.50 64	2.88 73
3.50 in. 89 mm	7.66 195	4.16 106	1.75 44	1.88 48	7.91 201	4.41 112	1.75 44	1.94 49	7.91 201	4.41 112	2.00 51	2.18 55	7.91 201	4.41 112	2.00 51	2.25 57	7.91 201	4.41 112	2.50 64	2.88 73
4.00 in. 102 mm	8.66 220	4.66 118	1.75 44	1.88 48	8.91 226	4.91 125	1.75 44	1.94 49	8.91 226	4.91 125	2.00 51	2.18 55	8.91 226	4.91 125	2.00 51	2.25 57	8.91 226	4.91 125	2.50 64	2.88 73
4.50 in. 114 mm					9.91 252	5.41 137	1.75 44	1.94 49	9.91 252	5.41 137	2.00 51	2.18 55	9.91 252	5.41 137	2.00 51	2.25 57	9.91 252	5.41 137	2.50 64	2.88 73
5.00 in. 127 mm					10.91 277	5.91 150	1.75 44	1.94 49	10.91 277	5.91 150	2.00 51	2.18 55	10.91 277	5.91 150	2.00 51	2.25 57	10.91 277	5.91 150	2.50 64	2.88 73
5.50 in. 140 mm									11.91 303	6.41 163	2.00 51	2.18 55	11.91 303	6.41 163	2.00 51	2.25 57	11.91 303	6.41 163	2.50 64	2.88 73
6.00 in. 152 mm									12.91 328	6.91 176	2.00 51	2.18 55	12.91 328	6.91 176	2.00 51	2.25 57	12.91 328	6.91 176	2.50 64	2.88 73
6.50 in. 165 mm													13.91 353	7.41 188	2.00 51	2.25 57	13.91 353	7.41 188	2.50 64	2.88 73
7.00 in. 178 mm													14.91 379	7.91 201	2.00 51	2.25 57	14.91 379	7.91 201	2.50 64	2.88 73
7.50 in. 191 mm																	15.91 404	8.41 214	2.50 64	2.88 73
8.00 in. 203 mm																	16.91 430	8.91 226	2.50 64	2.88 73

SEAL KITS AND SERVICE WRENCH SEE PAGE 9

STANDARD ORDERING EXAMPLE: MMC0500-2.0

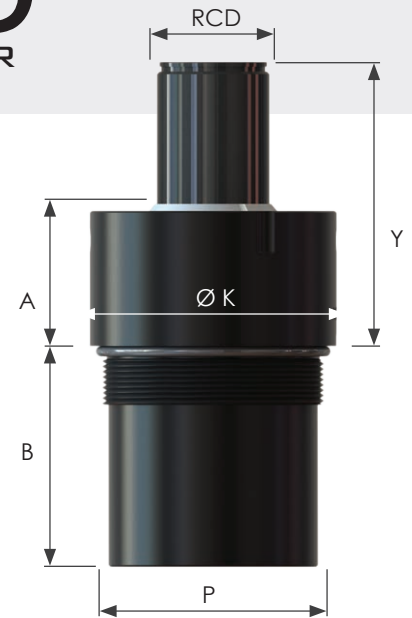
HS ORDERING EXAMPLE: HS-MMC0500-2.0

FP ORDERING EXAMPLE: FP-MMC0500-2.0

DIMENSIONAL INFORMATION

FORCE 1500 PSI	FORCE 2000 PSI	MAX STD. STROKE LENGTHS	K	P	ROD CLEARANCE DIAMETER RCD	A
MMCD0500 .5 TON	MMCD0750 .75 TON	4.00 in. 102 mm	1.60 in. 41 mm	1-5/16-12	0.85 in. 22 mm	1.66 in. 42 mm
MMCD1000 1 TON	MMCD1500 1.5 TON	5.00 in. 127 mm	2.12 in. 54 mm	1-7/8-12	1.08 in. 27mm	1.66 in. 42 mm
MMCD2500 2.5 TON	MMCD3000 3 TON	6.00 in. 152 mm	2.75 in. 70 mm	2-1/2-12	1.38 in. 35 mm	1.66 in. 42 mm
MMCD4000 4 TON	MMCD5000 5 TON	7.00 in. 178 mm	3.56 in. 90 mm	M82X2 3-1/4-12*	1.86 in. 47 mm	1.66 in. 42 mm
MMCD6000 6 TON	MMCD8000 8 TON	8.00 in. 203 mm	4.31 in. 109 mm	M100X2 4-12*	2.51 in. 64 mm	1.66 in. 42 mm

*Inch threads available
MMCD4000-2.00-IT



FOR SPECIAL 'Y' DIMENSIONS
PLEASE REFER TO PAGE 10.

DIMENSIONAL WITH STROKE

STROKE	MMCD0500/0750				MMCD1000/1500				MMCD2500/3000				MMCD4000/5000				MMCD6000/8000			
	Y	B	0500 MPT*	750 MPT*	Y	B	1000 MPT*	1500 MPT*	Y	B	2500 MPT*	3000 MPT*	Y	B	4000 MPT*	5000 MPT*	Y	B	6000 MPT*	8000 MPT*
0.25 in. 6 mm	1.91 48	0.59 15	1.75 44	1.88 48																
0.50 in. 13 mm	2.16 55	0.59 15	1.75 44	1.88 48																
0.75 in. 19 mm	2.41 61	0.63 16	1.75 44	1.88 48																
1.00 in. 25 mm	2.66 68	0.88 22	1.75 44	1.88 48	2.66 68	0.97 25	1.75 44	1.94 49	2.66 68	1.25 32	2.00 51	2.18 55	2.66 68	1.50 38	2.50 64	2.75 70	2.66 68	1.50 38	2.50 64	2.88 73
1.50 in. 38 mm	3.16 80	1.38 35	1.81 46	1.94 49	3.16 80	1.47 37	1.88 48	2.07 53	3.16 80	1.75 44	2.25 57	2.43 62	3.16 80	2.00 51	2.75 70	3.00 76	3.16 80	2.00 51	2.75 70	3.13 80
2.00 in. 51 mm	3.66 93	1.88 48	2.31 59	2.44 62	3.66 93	1.97 50	2.38 60	2.57 65	3.66 93	2.25 57	2.75 70	2.93 74	3.66 93	2.50 64	3.25 83	3.50 89	3.66 93	2.50 64	3.25 83	3.63 92
2.50 in. 64 mm	4.16 106	2.38 60	2.81 71	2.94 75	4.16 106	2.47 63	2.88 73	3.07 78	4.16 106	2.75 70	3.25 83	3.43 87	4.16 106	3.00 76	3.75 95	4.00 102	4.16 106	3.00 76	3.75 95	4.13 105
3.00 in. 76 mm	4.66 118	2.88 73	3.31 84	3.44 87	4.66 118	2.97 75	3.38 86	3.57 91	4.66 118	3.25 83	3.75 95	3.93 100	4.66 118	3.50 89	4.25 108	4.50 114	4.66 118	3.50 89	4.25 108	4.63 118
3.50 in. 89 mm	5.16 131	3.38 86	3.81 97	3.94 100	5.16 131	3.47 88	3.88 98	4.07 103	5.16 131	3.75 95	4.25 108	4.43 113	5.16 131	4.00 102	4.75 121	5.00 127	5.16 131	4.00 102	4.75 121	5.13 130
4.00 in. 102 mm	5.66 144	3.88 98	4.31 109	4.44 113	5.66 144	3.97 101	4.38 111	4.57 116	5.66 144	4.25 108	4.75 120	4.93 125	5.66 144	4.50 114	5.25 133	5.50 140	5.66 144	4.50 114	5.25 133	5.63 143
4.50 in. 114 mm					6.16 156	4.47 113.5	4.88 124	5.07 129	6.16 156	4.75 121	5.25 133	5.43 138	6.16 156	5.00 127	5.75 146	6.00 152	6.16 156	5.00 127	5.75 146	6.13 156
5.00 in. 127 mm					6.66 169	4.97 126	5.38 137	5.57 141	6.66 169	5.25 133	5.75 146	5.93 151	6.66 169	5.50 140	6.25 159	6.50 165	6.66 169	5.50 140	6.25 159	6.63 168
5.50 in. 140 mm									7.16 182	5.75 146	6.25 159	6.43 163	7.16 182	6.00 152	6.75 171	7.00 178	7.16 182	6.00 152	6.75 171	7.13 181
6.00 in. 152 mm									7.66 195	6.25 159	6.75 171	6.93 176	7.66 195	6.50 165	7.25 184	7.50 191	7.66 195	6.50 165	7.25 184	7.63 194
6.50 in. 165 mm													8.16 207	7.00 178	7.75 197	8.00 203	8.16 207	7.00 178	7.75 197	8.13 207
7.00 in. 178 mm													8.66 220	7.50 191	8.25 210	8.50 216	8.66 220	7.50 191	8.25 210	8.63 219
7.50 in. 191 mm																	9.16 233	8.00 203	8.75 222	9.13 232
8.00 in. 203 mm																	9.66 245	8.50 216	9.25 235	9.63 245

SEAL KITS AND SERVICE WRENCH SEE PAGE 9

STANDARD ORDERING EXAMPLE: MMCD0500-2.0

HS ORDERING EXAMPLE: HS-MMCD0500-2.0

FP ORDERING EXAMPLE: FP-MMCD0500-2.0



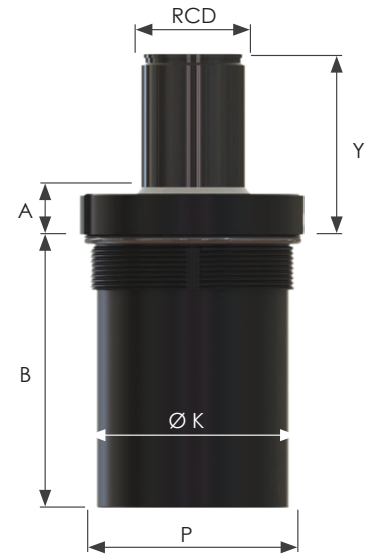
MMCSB

MANIFOLD CYLINDER



DIMENSIONAL INFORMATION

FORCE 1500 PSI	FORCE 2000 PSI	MAX STD. STROKE LENGTHS	K	P	ROD CLEARANCE DIAMETER RCD	A
MMCSB0500 .5 TON	MMCSB0750 .75 TON	4.00 in. 102 mm	1.60 in. 41 mm	1-5/16-12	0.85 in. 22 mm	0.66 in. 17 mm
MMCSB1000 1 TON	MMCSB1500 1.5 TON	5.00 in. 127 mm	2.12 in. 54 mm	1-7/8-12	1.08 in. 27mm	0.66 in. 17 mm
MMCSB2500 2.5 TON	MMCSB3000 3 TON	6.00 in. 152 mm	2.75 in. 70 mm	2-1/2-12	1.38 in. 35 mm	0.66 in. 17 mm
MMCSB4000 4 TON	MMCSB5000 5 TON	7.00 in. 178 mm	3.56 in. 90 mm	M82X2	1.86 in. 47 mm	0.66 in. 17 mm



FOR SPECIAL 'Y'
DIMENSIONS PLEASE
REFER TO PAGE 08.

DIMENSIONAL WITH STROKE

STROKE	MMCSB0500/0750					MMCSB1000/1500				MMCSB2500/3000				MMCSB4000/5000			
	Y	B	0500 MPT*	0750 MPT*		Y	B	1000 MPT*	1500 MPT*	Y	B	2500 MPT*	3000 MPT*	Y	B	4000 MPT*	5000 MPT*
0.25 in. 6 mm	0.91 23	1.13 29	1.75 44	1.88 48													
0.50 in. 13 mm	1.16 29	1.38 35	1.81 46	1.94 49	1.16 29	1.41 36	1.84 47	2.03 52		1.16 29	1.75 44	2.26 57	2.44 62	1.16 29	2.00 51	2.70 69	2.95 75
0.75 in. 19 mm	1.41 36	1.63 41	2.06 52	2.19 56	1.41 36	1.66 42	2.09 53	2.28 58		1.41 36	2.00 51	2.51 64	2.69 68	1.41 36	2.25 57	2.95 75	3.20 81
1.00 in. 25 mm	1.66 42	1.88 48	2.31 59	2.44 62	1.66 42	1.91 49	2.34 59	2.53 64		1.66 42	2.25 57	2.76 70	2.94 75	1.66 42	2.50 64	3.20 81	3.45 88
1.50 in. 38 mm	2.16 55	2.38 60	2.81 71	2.94 75	2.16 55	2.41 61	2.84 72	3.03 77		2.16 55	2.75 70	3.26 83	3.44 87	2.16 55	3.00 76	3.70 94	3.95 100
2.00 in. 51 mm	2.66 68	2.88 73	3.31 84	3.44 87	2.66 68	2.91 74	3.34 85	3.53 90		2.66 68	3.25 83	3.76 96	3.94 100	2.66 68	3.50 89	4.20 107	4.45 113
2.50 in. 64 mm	3.16 80	3.38 86	3.81 97	3.94 100	3.16 80	3.41 87	3.84 97	4.03 102		3.16 80	3.75 95	4.26 108	4.44 113	3.16 80	4.00 102	4.70 119	4.95 126
3.00 in. 76 mm	3.66 93	3.88 99	4.31 109	4.44 113	3.66 93	3.91 99	4.34 110	4.53 115		3.66 93	4.25 108	4.76 121	4.94 125	3.66 93	4.50 114	5.20 132	5.45 138
3.50 in. 89 mm	4.16 106	4.38 111	4.81 122	4.94 125	4.16 106	4.41 112	4.84 123	5.03 128		4.16 106	4.75 121	5.26 134	5.44 138	4.16 106	5.00 127	5.70 145	5.95 151
4.00 in. 102 mm	4.66 118	4.88 124	5.31 135	5.44 138	4.66 118	4.91 125	5.34 136	5.53 140		4.66 118	5.25 133	5.76 146	5.94 151	4.66 118	5.50 139	6.20 157	6.45 164
4.50 in. 114 mm					5.16 131	5.41 137	5.84 148	6.03 153		5.16 131	5.75 146	6.26 159	6.44 164	5.16 131	6.00 152	6.70 170	6.95 177
5.00 in. 127 mm					5.66 144	5.91 150	6.34 161	6.53 166		5.66 144	6.25 159	6.76 172	6.94 176	5.66 144	6.50 165	7.20 183	7.45 189
5.50 in. 140 mm										6.16 156	6.75 171	7.26 184	7.44 189	6.16 156	7.00 178	7.70 196	7.95 202
6.00 in. 152 mm										6.66 169	7.25 184	7.76 197	7.94 202	6.66 169	7.50 191	8.20 208	8.45 215
6.50 in. 165 mm														7.16 182	8.00 203	8.70 221	8.95 227
7.00 in. 178 mm														7.66 195	8.50 216	9.20 234	9.45 240

SEAL KITS AND SERVICE WRENCH SEE PAGE 9

STANDARD ORDERING EXAMPLE: MMCSB0750-2.0

HS ORDERING EXAMPLE: HS-MMCO750-2.0

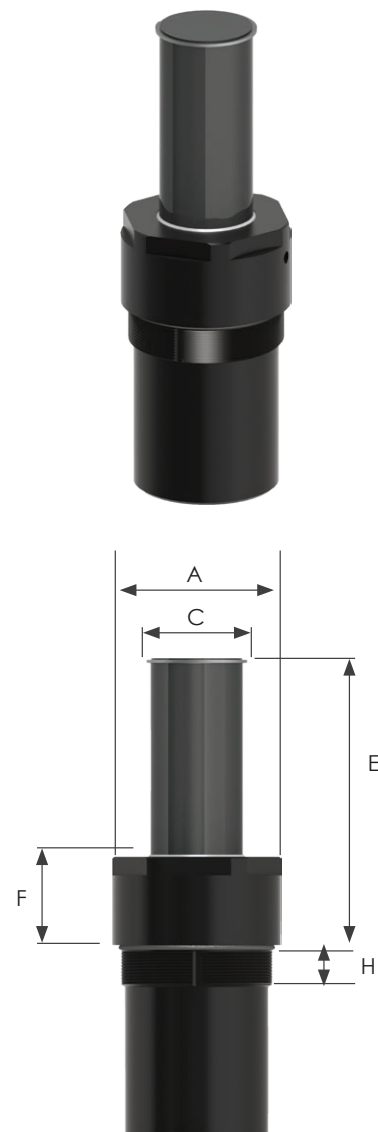


DIMENSIONAL INFORMATION

PART NUMBER	CONTACT FORCE @ 150 BAR (2175 PSI)	CONTACT FORCE @ 125 BAR (1812 PSI)	STROKE	A	C	E	F	H
MMCGM 5200 X 100	52.4 kN	43.7 kN	3.94 in. 100 mm	90.4	47.5	5.31 in. 135 mm	1.38 in. 35 mm	M82 X 2
MMCGM 5200 X 125			4.92 in. 125 mm			7.28 in. 185 mm	2.36 in. 60 mm	
MMCGM 5200 X 160			6.30 in. 160 mm			8.86 in. 225 mm	3.74 in. 95 mm	
MMCGM 5200 X 200			7.87 in. 200 mm			13.19 in. 335 mm	5.31 in. 135 mm	

MMCGM 7700 X 100	77.3 kN	64.4 kN	3.94 in. 100 mm	109.5	64	5.31 in. 135 mm	1.38 in. 35 mm	M100 X 2
MMCGM 7700 X 125			4.92 in. 125 mm			7.28 in. 185 mm	2.36 in. 60 mm	
MMCGM 7700 X 160			6.30 in. 160 mm			8.86 in. 225 mm	3.74 in. 95 mm	
MMCGM 7700 X 200			7.87 in. 200 mm			13.19 in. 335 mm	5.31 in. 135 mm	
MMCGM 7700 X 250			9.84 in. 250 mm			17.13 in. 435 mm	7.28 in. 185 mm	

MMCGM 10700 X 100	106.9 kN	89.1 kN	3.94 in. 100 mm	130	75.6	5.31 in. 135 mm	1.38 in. 35 mm	M120 X 2
MMCGM 10700 X 125			4.92 in. 125 mm			7.28 in. 185 mm	2.36 in. 60 mm	
MMCGM 10700 X 160			6.30 in. 160 mm			8.86 in. 225 mm	3.74 in. 95 mm	
MMCGM 10700 X 200			7.87 in. 200 mm			13.19 in. 335 mm	5.31 in. 135 mm	
MMCGM 10700 X 250			9.84 in. 250 mm			17.13 in. 435 mm	7.28 in. 185 mm	



FOR SPECIAL
'Y' DIMENSIONS
PLEASE REFER TO
PAGE 10.

PLATE THICKNESS 150MM

STANDARD ORDERING EXAMPLE: MMCGM5200x100-3.94

HS ORDERING EXAMPLE: HS-MMCGM5200x100-3.94

FP ORDERING EXAMPLE: FP-MMCGM5200x100-3.94

SERVICE WRENCHES AND SEAL KITS



SERVICE WRENCHES
SW-0500
SW-1000
SW-2500
SW-4000
SW-6000
SW-GM-5200
SW-GM-7700
SW-GM-10700



SEAL KITS: MMC, MMCD, MMCSB, MMCGM
SK-0500-KIT
SK-1000-KIT
SK-2500-KIT
SK-4000-KIT
SK-5200-KIT
SK-6000-KIT
SK-7700-KIT
SK-10700-KIT

SEAL KITS WITH FLUID PROTECTION: MMC, MMCD, MMCGM
FP-SK-0500-KIT
FP-SK-1000-KIT
FP-SK-2500-KIT
FP-SK-4000-KIT
FP-SK-5200-KIT
FP-SK-6000-KIT
FP-SK-7700-KIT
FP-SK-10700-KIT

SEAL KITS HOT STAMP: MMC, MMCD, MMCSB, MMCGM
HS-SK-0500-KIT
HS-SK-1000-KIT
HS-SK-2500-KIT
HS-SK-4000-KIT
HS-SK-5200-KIT
HS-SK-6000-KIT
HS-SK-7700-KIT
HS-SK-10700-KIT



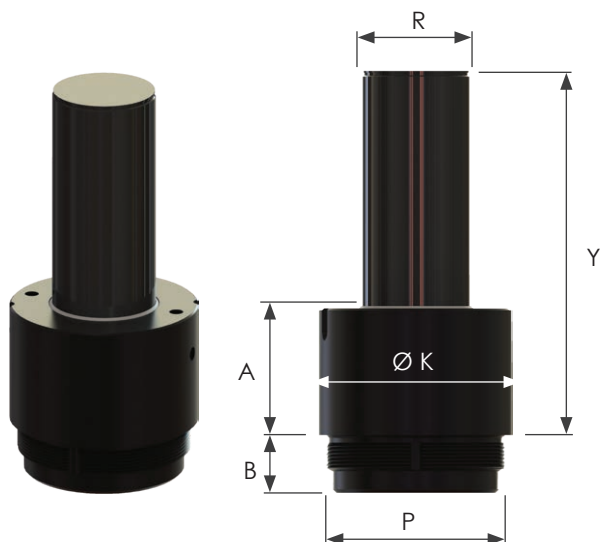
*INCLUDED WITH STANDARD SEAL KIT



*INCLUDED WITH STANDARD SEAL KIT



Metrol Special 'Y' manifold springs feature a standard body with a longer piston.



DIMENSIONAL INFORMATION

FORCE 1500 PSI	FORCE 2000 PSI	MAX STD. STROKE LENGTHS	K	P	ROD CLEARANCE DIAMETER RCD	A	SEAL KIT
MMC0500 .5 TON	MMC0750 .75 TON	4.00 in. 102 mm	1.60 in. 41 mm	1-5/16-12	0.85 in. 22 mm	0.88 in. 22 mm	MMC0500-KIT
MMC1000 1 TON	MMC1500 1.5 TON	5.00 in. 127 mm	2.12 in. 54 mm	1-7/8-12	1.08 in. 27mm	0.72 in. 18 mm	MMC1000-KIT
MMC2500 2.5 TON	MMC3000 3 TON	6.00 in. 152 mm	2.75 in. 70 mm	2-1/2-12	1.38 in. 35 mm	1.0 in. 25 mm	MMC2500-KIT
MMC4000 4 TON	MMC5000 5 TON	7.00 in. 178 mm	3.56 in. 90 mm	M82X2 3-1/4-12*	1.86 in. 47 mm	1.25 in. 32 mm	MMC4000-KIT
MMC6000 6 TON	MMC8000 8 TON	8.00 in. 203 mm	4.31 in. 109 mm	M100X2 4-12*	2.51 in. 64 mm	1.25 in. 32 mm	MMC6000-KIT

FOR CYLINDER (A) DIMENSIONS PLEASE
REFER TO PAGES 04 - 07 FOR THE FULL
RANGE AVAILABLE.

*Inch threads available:
MMC0500-2.0-IT-Y=9.84

SPECIAL Y ORDERING EXAMPLE: MMC0500-2.0-Y=9.84

SAS MMC

Metrol Special Application Solutions (SAS) provide custom cylinders to suite a variety of challenging applications.

Bespoke designs engineered with specific attributes allow Metrol cylinders to perform in the harshest environments whilst providing outstanding performance and durability.

For further information on how Metrol SAS cylinders can increase productivity and reduce downtime, please contact us.

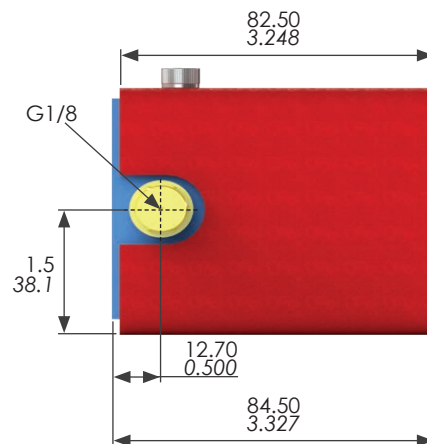
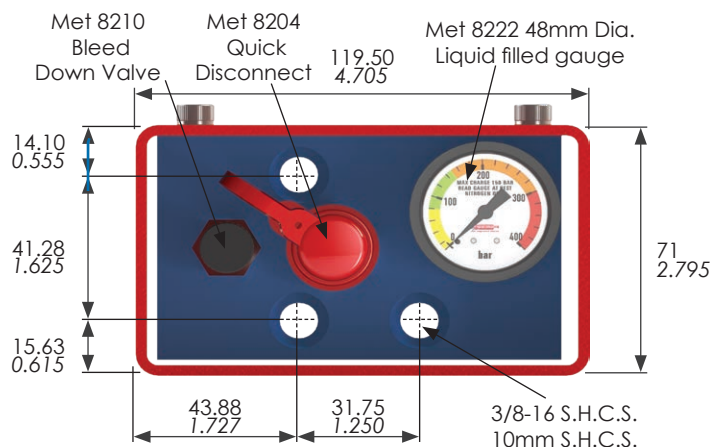


Standard control panels contain all the necessary controls for reading, charging and exhausting nitrogen for up to 2000psi pressure.

Control panels should be mounted in an accessible location where the pressure gauge can be read easily.

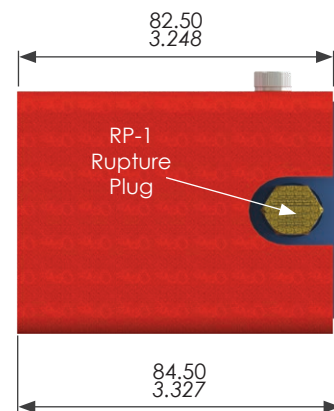
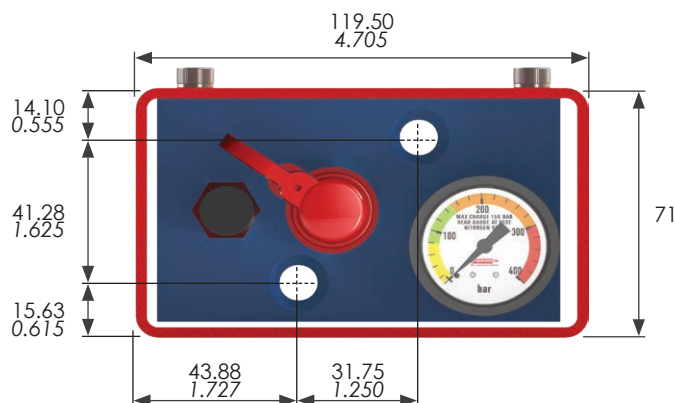
PCP-1

For remote connection to a manifold plate via an NH-250 hose.



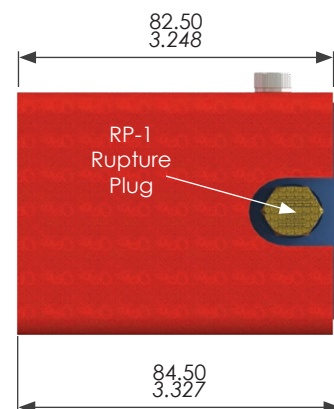
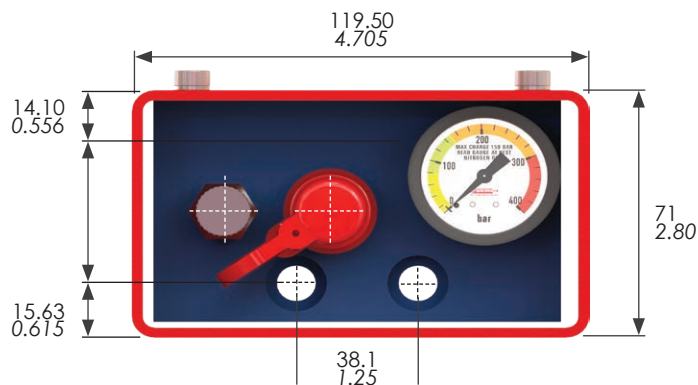
PCP-2

For direct mounting to a finished manifold plate by an O-ring seal. Minimum manifold thickness required is 3 inches.



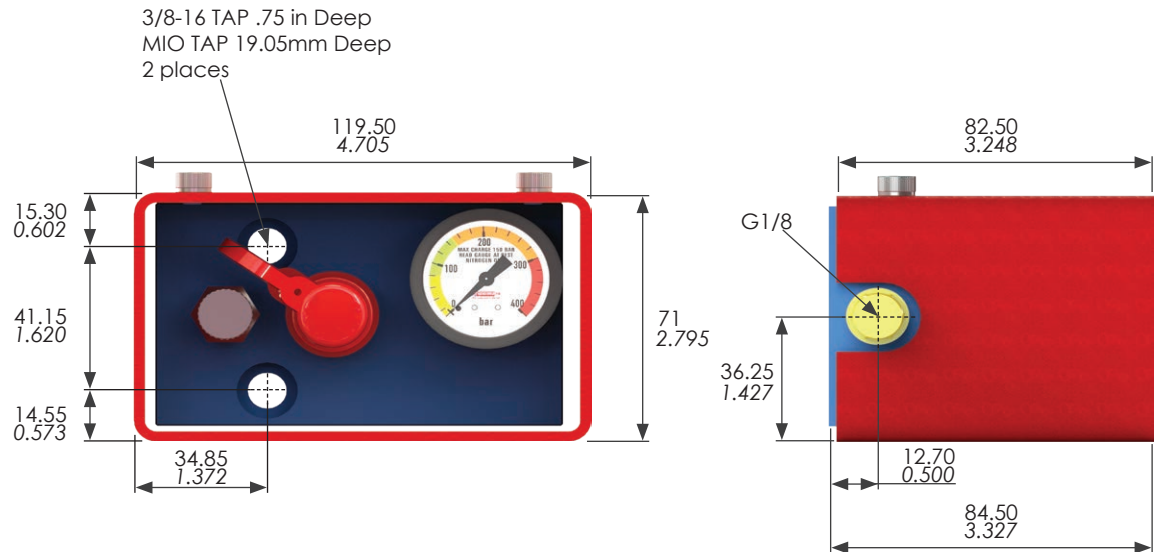
PCP-3

For direct mounting to a finished manifold plate by an O-ring seal. Maximum manifold thickness required is 3 inches.



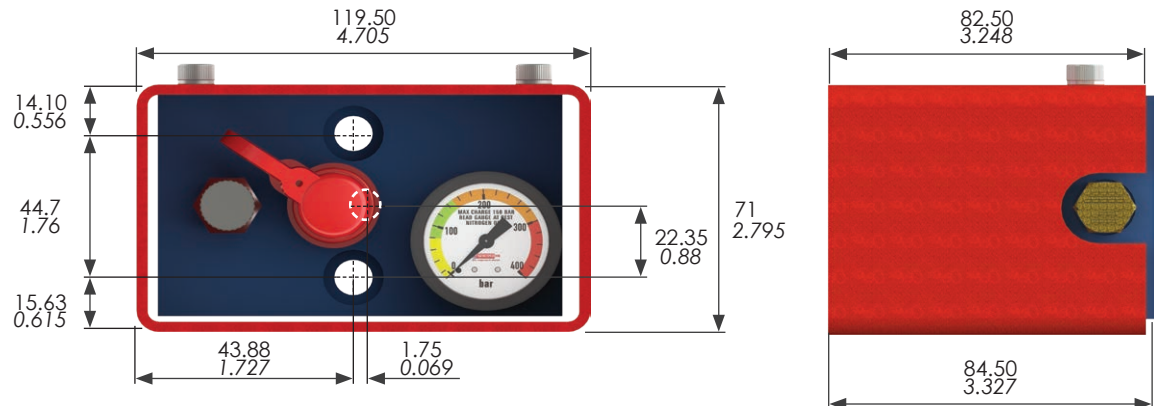
PCP-4

For remote connection to a manifold plate via an ORH hose.



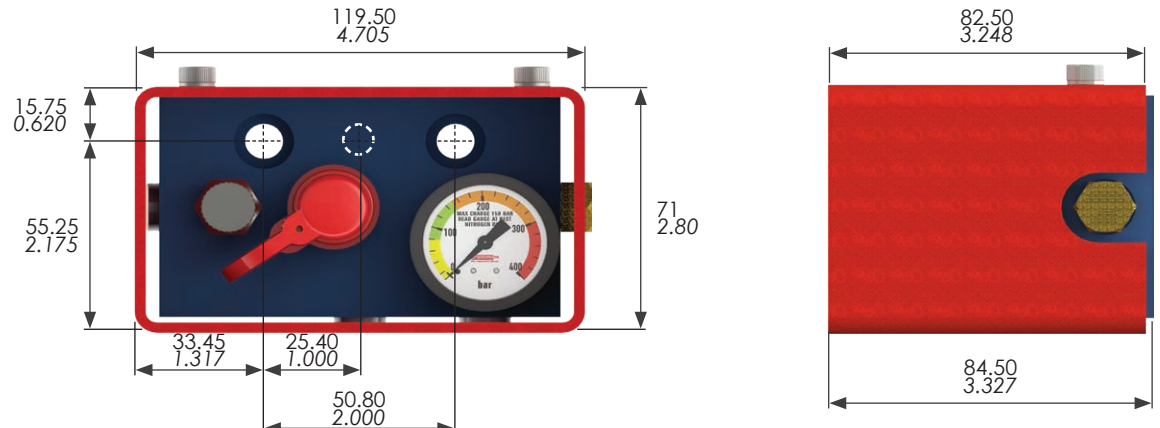
PCP-5

For direct mounting to a finished manifold plate by an O-ring seal. Maximum manifold thickness required is 3 inches.



PCP-6

For direct mounting to a finished manifold plate by an O-ring seal. Maximum manifold thickness required is 3 inches.

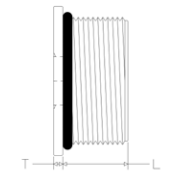
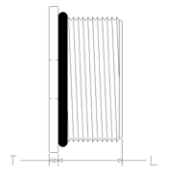
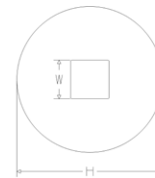
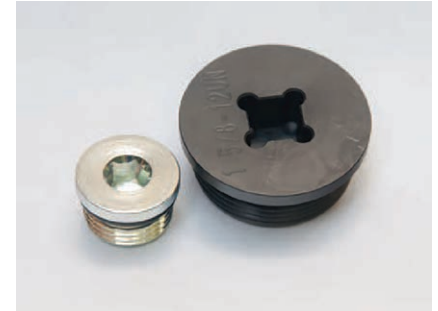


MANIFOLD PORT PLUGS



DIMENSIONAL INFORMATION

PART #	D	T	L	THREAD	SERVICE TOOL	O-RING
SPP-4	0.562 in. 14.27 mm	0.11 in. 2.79 mm	0.36 in. 9.14 mm	7/16-20 22 mm	3/16 ALLEN 5 mm	O-04
SPP-5	0.625 in. 15.88 mm	0.11 in. 2.79 mm	0.36 in. 9.14 mm	1/2-20 27mm	3/16 ALLEN 5 mm	O-05
SPP-8	0.880 in. 22.35 mm	0.16 in. 4.06 mm	0.44 in. 11.18 mm	3/4-16 35 mm	5/16 ALLEN 8 mm	O-08
SPP-12	1.25 in. 31.75 mm	0.18 in. 4.57 mm	0.59 in. 14.99 mm	1-1/16-12 47 mm	9/16 ALLEN 14 mm	O-12
SPP-14	1.375 in. 34.93 mm	0.18 in. 4.57 mm	0.59 in. 14.99 mm	1-3/16-12 64 mm	9/16 ALLEN 14 mm	O-14
SPP-16	1.50 in. 38.10 mm	0.18 in. 4.57 mm	0.59 in. 14.99 mm	1-5/16-12 64 mm	1/2 DRIVER 13 mm	O-16
SPP-20	1.88 in. 47.75 mm	0.16 in. 4.06 mm	0.59 in. 14.99 mm	1-5/8-12 64 mm	1/2 DRIVER 13 mm	O-20
SPP-24	2.125 in. 53.98 mm	0.16 in. 4.06 mm	0.59 in. 14.99 mm	1-7/8-12 64 mm	1/2 DRIVER 13 mm	O-24
SPP-47M	2.125 in. 54 mm	0.16 in. 4.06 mm	0.59 in. 14.99 mm	2-1/8-12 64 mm	1/2 DRIVER 13 mm	O-32
SPP-63M	2.755 in. 70 mm	0.16 in. 4.06 mm	0.59 in. 14.99 mm	1-3/2-12 M63 X 2	1/2 DRIVER 13 mm	O-63M
SPP-82	3.503 in. 89 mm	0.25 in. 6.35 mm	0.75 in. 19.05 mm	1-3/16-12 M82 X 2	1/2 DRIVER 13 mm	O-82M
SPP-100	4.251 in. 108 mm	0.25 in. 6.35 mm	0.75 in. 19.05 mm	1-3/16-12 M100 X 2	1/2 DRIVER 13 mm	O-100M



MET8400 DIGITAL PRESSURE SWITCH MONITOR

The digital pressure monitor switch is ideal for manifold gas spring systems where the pressure is critical, if the pressure drops below a certain level the tool produces a bad part.

The pressure monitor can be set to the critical pressure level and should the pressure in the system fall below the set level then the press unit will alarm.

- ✓ Digital display.
- ✓ NO or NC (selectable).
- ✓ Supply Voltage 15-35V dc.
- ✓ 2 switching outputs.
- ✓ Connection G1/4.

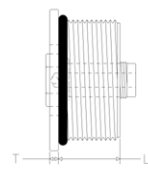
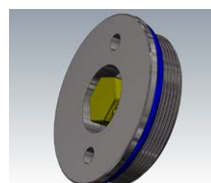


MET8400 pressure switch is connected directly to the manifold plate or the control panel using MET1061-A 4 way adaptor control panel.



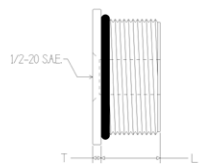
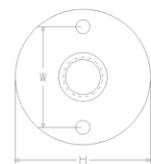
SAFETY PLUG (RPP) INCLUDES RUPTURE PLUG FOR
1500 PSI SYSTEMS

PART #	D	T	L	S	THREAD	SERVICE TOOL	O-RING
RPP-20	1.88 in. 47.75 mm	0.16 in. 4.06 mm	0.59 in. 14.99 mm	1.00 in. 25.40 mm	1-5/8-12 41 mm	SPANNER	O-20
RPP-24	2.125 in. 53.98 mm	0.16 in. 4.06 mm	0.59 in. 14.99 mm	1.25 in. 31.75 mm	1-7/8-12 48mm	SPANNER	O-24
RPP-32	2.75 in. 69.85 mm	0.16 in. 4.06 mm	0.59 in. 14.99 mm	1.75 in. 44.45 mm	2-1/2-12 63 mm	SPANNER	O-32
RPP-82	3.50 in. 88.90 mm	0.25 in. 6.35 mm	0.75 in. 19.05 mm	2.25 in. 57.15 mm	M82 X 2	SPANNER	O-82M
RPP-100	4.25 in. 107.95 mm	0.25 in. 6.35 mm	0.75 in. 19.05 mm	2.25 in. 57.15 mm	M100 X 2	SPANNER	O-100M



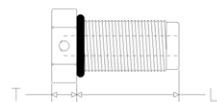
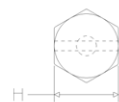
HOSE PORT (HPP) 1/2-20 CONNECTION FOR EXTERNAL
VOLUME TANK

PART #	D	T	L	S	THREAD	SERVICE TOOL	O-RING
HPP-20	1.88 in. 47.75 mm	0.16 in. 4.06 mm	0.59 in. 14.99 mm	1.00 in. 25.40 mm	1-5/8-12 41 mm	SPANNER	O-20
HPP-24	2.125 in. 53.98 mm	0.16 in. 4.06 mm	0.59 in. 14.99 mm	1.25 in. 31.75 mm	1-7/8-12 48mm	SPANNER	O-24
HPP-32	2.75 in. 69.85 mm	0.16 in. 4.06 mm	0.59 in. 14.99 mm	1.75 in. 44.45 mm	2-1/2-12 63 mm	SPANNER	O-32
HPP-82	3.50 in. 88.90 mm	0.25 in. 6.35 mm	0.75 in. 19.05 mm	2.25 in. 57.15 mm	M82 X 2	SPANNER	O-82M
HPP-100	4.25 in. 107.95 mm	0.25 in. 6.35 mm	0.75 in. 19.05 mm	2.25 in. 57.15 mm	M100 X 2	SPANNER	O-100M



RUPTURE PLUG (RP-1) (350BAR XXPSI)

PART #	D	T	L	THREAD	SERVICE TOOL
RP-1	-	0.274 in. 6.96 mm	0.415 in. 10.54 mm	7/16-12 11 mm	9/16 WRENCH 14MM WRENCH



MANUFACTURING PROCESS FOR MANIFOLD SYSTEMS

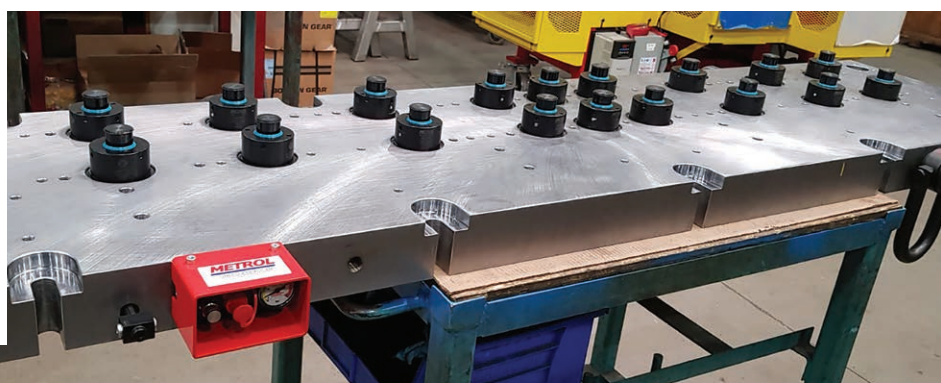
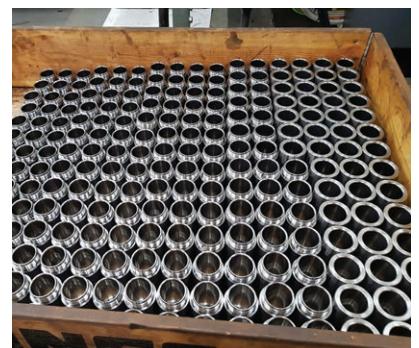


When you're working with Porter/Metrol you're in safe hands.

Production at Metrol quite literally never stops, thanks to our extensive factory space and ability to perform 'lights-out' manufacturing.

It is because of our state-of-the-art facility that we can hold such a vast array of Manifold springs and accessories.

We're ready when you need us the most.





HOSELESS BASE PLATE SYSTEMS

- MANUFACTURED TO CUSTOMER SPECIFICATIONS
- NO EXTERNAL HOSES
- REDUCES LEAK POINTS
- SPECIAL BP SEAL DESIGNED FOR MAXIMUM DURABILITY



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