MGP series air and liquid booster cylinder

Reference model

MPT	63	X	100	-	20	-	3T
Standard type Series code	Inner diameter of oil cylinder 63:63mm 80:80mm 100:100mm 125:125mm 160:160mm		Overall stroke 50:50mm 100:100mm 150:150mm 200:200mm		Booster stroke 5:5mm 10:10mm 15:15mm 20:20mm		Output force: 1T: 1 Ton 3T: 3 Tons 5T: 5 Tons 10T: 10 Tons 13T: 13 Tons 15T: 15 Tons 20T: 20 Tons 30T: 30 Tons 40T: 40 Tons

Technical specification

Cylinder diameter (mm)	MPT
Acting mode	Repeated move
Working medium	Air (Cleaned by 40 μ m filter)
Operating pressure	0.2~0.7Mpa(2~7kgf/cm^2)
Circling oil	ISO Vg68
Working temperature	-5~+60°C
Operating speed	50~700mm/s
Guaranteed withstand pressure	Oil cylinder: 300kgf/cm^2, air cylinder: kgf/cm^2
Working frequency	More than 10 times / per minute

Stroke dimensions and output force

Cylinder diameter (mm)	Tonnage T	Overall stroke (mm)	Booster stroke (mm)	Working pressure (kgf/cm^2)	1	2	3	4	5	6	7
63	1	50 100 150 200	5 10 15 20	Pre–pressing output force Kg	30	60	90	120	150	180	210
				Booster output force Kg	300	600	900	1250	1550	1850	2150
				Return pulling force Kg	20	40	60	80	100	120	140
	3	50 100 150 200	5 10 15 20	Pre–pressing output force Kg	30	60	90	120	150	180	210
				Booster output force Kg	500	1000	1500	2000	2500	3000	3500
				Return pulling force Kg	20	40	60	80	100	120	140
80	5	50 100 150 200	5 10 15 20	Pre–pressing output force Kg	50	100	150	200	250	300	350
				Booster output force Kg	1000	2000	3000	4000	5000	6000	7000
				Return pulling force Kg	40	80	120	160	200	240	280
100	10	50 100 150 200	5 10 15 20	Pre–pressing output force Kg	78	156	234	312	390	468	546
				Booster output force Kg	1560	3120	4680	6240	7800	9360	10920
				Return pulling force Kg	60	120	180	240	300	360	420
	13	50 100 150 200	5 10 15 20	Pre–pressing output force Kg	78	156	234	312	390	468	546
				Booster output force Kg	1970	3940	5190	7880	9850	11820	13790
				Return pulling force Kg	60	120	180	240	300	360	420
125	15	50 100 150 200	5 10 15 20	Pre–pressing output force Kg	120	240	360	480	600	720	840
				Booster output force Kg	2560	5120	7680	10240	12800	15350	17900
				Return pulling force Kg	90	180	270	360	450	540	630
	20	50 100 150 200	5 10 15 20	Pre–pressing output force Kg	120	240	360	480	600	720	840
				Booster output force Kg	3500	7000	10500	14000	17500	21000	24500
				Return pulling force Kg	90	180	270	360	450	540	630
	30	50 100 150 200	5 10 15 20	Pre–pressing output force Kg	120	240	360	480	600	720	840
				Booster output force Kg	4000	8000	12000	16000	20000	24000	28000
				Return pulling force Kg	90	180	270	360	450	540	630
160	40	50 100 150 200	5 10 15 20	Pre–pressing output force Kg	200	400	600	800	1000	1200	1400
				Booster output force Kg	6500	13000	19500	26000	32500	39000	46000
				Return pulling force Kg	165	330	495	660	825	990	1155

Technical specification

Tonnage	A	B	C	D	D1	D2	E		d	MM	KK	CC
1T	50	5	20	75	46	35	65	132	14	M30X1.5	G3/8	G3/8
3T	50	5	20	75	55	35	65	132	14	M30X1.5	G3/8	G3/8
5T	50	5	20	90	55	35	87	155	17	M30X1.5	G3/8	G3/8
10T	55	5	30	90	65	45	110	190	21	M39X2	G1/2	G3/8
13T	55	5	30	90	65	45	110	190	21	M39X2	G1/2	G3/8
15T	55	5	30	90	75	55	140	255	25	M48X2	G1/2	G3/8
20T	55	5	30	90	77	60	140	255	25	M48X2	G1/2	G3/8
30T	55	5	30	90		60	175	290	30	M48X2	G3/4	G1/2
40T	55	5	40	90		60	175	290	38	M48X2	G3/4	G1/2