

▼ Shown: **MS210**



The Universal Hydraulic Tool Box



Maintenance Sets

Enerpac Maintenance sets are a complete assortment of accessories matched to hydraulic powered tools. Using these sets allows you to quickly configure a unique tool to meet your most difficult jobs.

Built around the Enerpac lightweight hand pump, hose and cylinder, these sets enable you to push, pull, lift, press, straighten, spread and clamp with forces up to 12.5 tons.

- All sets include Enerpac pump, hose, cylinder and gauge
- Lock-on or threaded connectors
- Complete set for almost every maintenance application



More Information

For detailed information on all included attachments, see the following pages.

Page: 206



Clamping a workpiece is just one of the many applications for the Enerpac maintenance sets. ►

▼ QUICK SELECTION CHART

Capacity using attachments* (tons)	Set Model Number						Number of Attachment Components	Weight (lbs)
2.5	MS24	P142	HC7206	RC55	GP10S	GA4	33	59
2.5	MSFP5**	P142	HC7206	RC55	G2535L	GA3	24	44
5	MSFP10	P392	HC7206	RC106	G2535L	GA3	23	105
5	MS210	P392	HC7206	RC106	GP10S	GA2	35	140
12.5	MS220	P392	HC7206	RC256	GP10S	GA2	13	210
5 - 12.5	MS21020	P392	HC7206	RC102, 106, 256	GP10S	GA2	53	350

* If no attachments are being used, capacity is double these values. Maximum operating pressure is then 10,000 psi.

** This set also includes the FZ1055 Adaptor.

MS-Series, Maintenance Sets



CAUTION!

When cylinders are used with maintenance set attachments or components, the maximum system pressure must be limited to half the rated pressure (5,000 psi).



WARNING!

Only use attachments provided with set. Non Enerpac attachments and longer extension tubes will reduce column strength, potentially creating unsafe conditions.

MS Series



Capacity (using attachments):

2.5 - 12.5 tons

Max. Operating Pressure (using attachments):

5,000 psi

▼ APPLICATION EXAMPLES





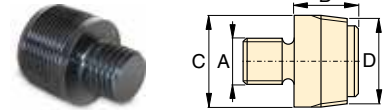
CAUTION! When cylinders are used with maintenance set attachments or components, the maximum system pressure must be limited to half the rated pressure (5,000 psi).

Note: All dimensions in inches.

Set Model No.	MS2-4	MSFP5	MSFP10	MS2-10	MS2-20	MS2-1020
Base/Collar/ Plunger Attachments	Capacity Using Attachments					
	2.5 tons	2.5 tons	5.0 tons	5.0 tons	12.5 tons	5-12.5 tons
Cylinder Series	RC5	RC5	RC10	RC10	RC25	RC10, RC25
1	A23	A23	A13	A13	A28	A13 / A28
2	A25	A25	A21	A21	A27	A21 / A27
3	A1034	A1034	A20	A20	A595	A20 / A595
4	MZ4010	MZ4010	A14	A14	A243	A14 / A243
5	A545	A545	A10	A10	—	A10(2x)
6	—	—	—	A8	—	A8
7	A530	A530	A6	A6	—	A6
8	MZ4011	—	—	A192	—	A192
9	—	—	—	A305	—	A305
10	A531	A531	A18	A18	—	A18
11	—	—	—	A185	—	A185
12	A532	A532	A15	A15	—	A15
13	—	—	—	—	A607	A607
14	A629	A629	A129	A129	—	A129
15	A539	A539	A128	A128	—	A128
Chains and Attach- ments for Pulling	2.5 tons	2.5 tons	5.0 tons	5.0 tons	12.5 tons	5-12.5 tons
Cylinder Series	RC5	RC5	RC10	RC10	RC25	RC10, RC25
16	A558	—	—	A132	A238	A132, A238
17	—	—	—	A5 (2x)	—	A5(2x)
18	A557(2x)	—	—	A141(2x)	A218(2x)	A141(2x) / A218(2x)
Tubes, Connectors and Adaptors	2.5 tons	2.5 tons	5.0 tons	5.0 tons	12.5 tons	5-12.5 tons
Cylinder Series	RC5	RC5	RC10	RC10	RC25	RC10, RC25
19	A544	—	—	A19(2x)	A242(2x)	A19(2x) and A242(2x)
20	WR5	WR5	WR5	A92	—	A92
21	MZ4013(4x)	MZ4013(4x)	A16(4x)	A16(4x)	—	A16(4x)
22	MZ4007(3x)	MZ4007(3x)	MZ1050(3x)	MZ1050(2x)	—	MZ1050(3x)
23	MZ4008(2x)	—	—	MZ1051	—	MZ1051(2x)
24	MZ4009	MZ4009	MZ1052	MZ1052	—	MZ1052
25	—	—	—	A285	—	A285
26	A650	—	—	—	—	—
Length: 3"	MZ4002	MZ4002	—	—	—	—
	5"	MZ4003	MZ4003	MZ1002	MZ1002	—
	10"	MZ4004	MZ4004	MZ1003	MZ1003	—
						and A239
	18"	MZ4005(2x)	MZ4005	MZ1004	MZ1004	A240
						and A240
	23"	MZ4006	MZ4006	—	—	—
	30"	—	—	MZ1005	MZ1005	A241
						and A241
Case	CM6	CM6	CW166	CW166	CW166	CW350
Weight	59 lbs.	44 lbs.	105 lbs.	140 lbs.	210 lbs.	350 lbs.

Base/Collar/Plunger Attachments

1 Threaded Adaptor



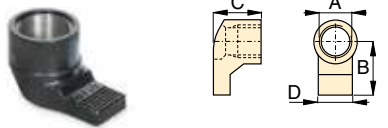
Tons	Model No.	A	B	C	D
2.5	A23	3/4"-16 UN	1.13	1.05	3/4"-14 NPT
5.0	A13	1"-8 UN	1.25	2.19	1 1/4"-11 1/2 NPT
12.5	A28	1 1/2"-16 UN	1.87	2.75	2"-11 1/2 NPT

2 Base Attachment



Tons	Model No.	A	B	C	D
2.5	A25	3/4"-14 NPT	2.00	0.50	1.75
5.0	A21	1 1/4"-11 1/2 NPT	2.25	0.50	2.56
12.5	A27	2"-11 1/2 NPT	2.50	0.50	3.88

3 Collar Toe



Tons	Model No.	A	B	C	D
2.5	A1034	1 1/2"-16	2.13	1.97	1.25
5.0	A20	2 1/4"-14	3.16	2.25	2.25
12.5	A595	3 5/16"-12	4.06	2.03	3.18

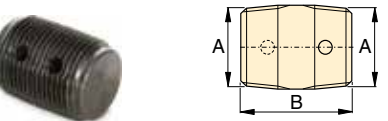
4 Flat Base



Tons	Model No.	A	B	C	D
2.5	MZ4010	3/4"-14 NPT	4.50	1.25	2.50
5.0	A14	1 1/4"-11 1/2 NPT	6.50	1.38	3.50
12.5	A243*	2"-11 1/2 NPT	6.50	2.31	6.50

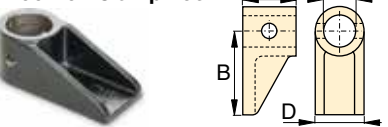
* A243 is a round base model

5 Threaded Connector



Tons	Model No.	A	B
2.5	A545	3/4"-14 NPT	1.38
5.0	A10	1 1/4"-11 1/2 NPT	1.63

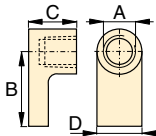
6 Lock-on Clamp Toe



Tons	Model No.	A	B	C	D
5.0	A8	1.69	4.13	2.00	2.25

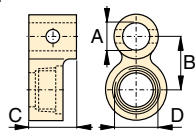
MS-Series, Maintenance Sets

7 Threaded Plunger Toe



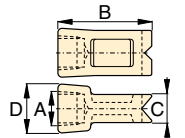
Tons	Model No.	A	B	C	D
2.5	A530	3/4"-14 NPT	2.25	1.00	1.33
5.0	A6	1 1/4"-11 1/2 NPT	3.12	1.25	2.25

8 Collar Clamp Head



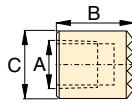
Tons	Model No.	A	B	C	D
2.5	MZ4011	3/4"-14 NPT	1.95	3.00	1 1/2-16 UN
5.0	A192	1.69	2.50	2.00	2 1/4-14 UN

9 Spreader Toe



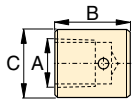
Tons	Model No.	A	B	C	D
5.0	A305	1 1/4"-11 1/2 NPT	4.50	1.00	2.00

10 Serrated Saddle



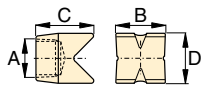
Tons	Model No.	A	B	C
2.5	A531	3/4"-14 NPT	1.25	1.09
5.0	A18	1 1/4"-11 1/2 NPT	1.50	2.00

11 Smooth Saddle



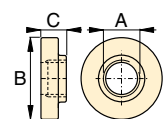
Tons	Model No.	A	B	C
5.0	A185	1 1/4"-11 1/2 NPT	1.50	2.00

12 90° V-Base



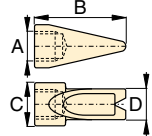
Tons	Model No.	A	B	C	D
2.5	A532	3/4"-14 NPT	1.50	1.88	1.00
5.0	A15	1 1/4"-11 1/2 NPT	2.13	2.25	2.13

13 Plunger Base



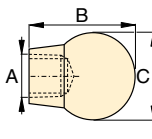
Tons	Model No.	A	B	C
12.5	A607	2"-11 1/2 NPT	6.56	1.53

14 Wedge Head



Tons	Model No.	A	B	C	D
2.5	A629	3/4"-14 NPT	2.75	1.31	1.13
5.0	A129	1 1/4"-11 1/2 NPT	4.00	2.00	1.75

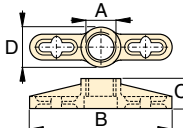
15 Rubber Flex-Head



Tons	Model No.	A	B	C
2.5	A539	3/4"-14 NPT	1.75	2.75
5.0	A128	1 1/4"-11 1/2 NPT	3.40	3.40

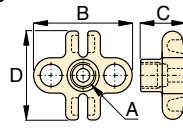
Chains and Attachments for Pulling

16 Single Chain Plate



Tons	Model No.	A	B	C	D
2.5	A558	1 1/2"-16 UN	7.75	1.56	1.75
5.0	A132	2 1/4"-14 UN	12.12	2.50	3.12
12.5	A238	3 5/16"-12 UN	17.75	4.03	4.93

17 Double Chain Plate



Tons	Model No.	A	B	C	D
5.0	A5	1 1/4"-11 1/2 NPT	6.18	2.00	4.96

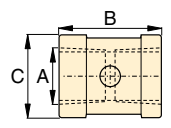
18 Chain with Hook



Tons	Model No.	Chain Length
2.5	A557	5 feet
5.0	A141	6 feet
12.5	A218	8 feet

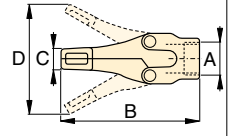
Tubes, Connectors and Adaptors

19 Pipe Coupling



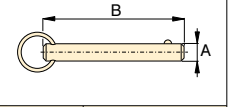
Tons	Model No.	A	B	C
2.5	A544	3/4"-14 NPT	1.69	1.31
5.0	A19	1 1/4"-11 1/2 NPT	1.94	2.15
12.5	A242	2"-11 1/2 NPT	3.50	3.25

20 Spreader



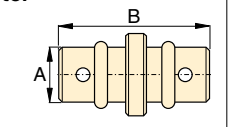
Tons	Model No.	A	B	C	D
1.0	WR5	—	8.78	0.50	3.70
1.0	A92	2 1/4"-14 UN	9.63	1.38	6.25

21 Lock Pin



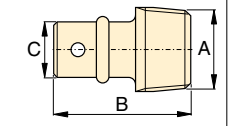
Tons	Model No.	A	B
2.5	MZ4013	0.25	2.38
5.0	A16	0.44	3.25

22 Lock-on Connector



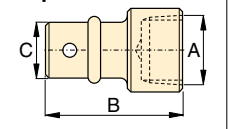
Tons	Model No.	A	B
2.5	MZ4007	0.75	3.12
5.0	MZ1050	1.31	5.00

23 Male Lock-on Adaptor



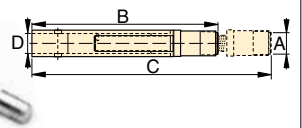
Tons	Model No.	A	B	C
2.5	MZ4008	3/4"-14 NPT	2.38	0.75
5.0	MZ1051	1 1/4"-11 1/2 NPT	3.56	1.31

24 Female Lock-on Adaptor



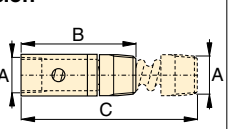
Tons	Model No.	A	B	C
2.5	MZ4009	3/4"-14 NPT	2.56	0.75
5.0	MZ1052	1 1/4"-11 1/2 NPT	3.81	1.31

25 Adjustable Extension



Tons	Model No.	A	B	C	D
5.0	A285	1 1/4"-11 1/2 NPT	13.20	17.37	1.30

26 Slip-Lock Extension



Tons	Model No.	A	B	C
2.5	A650	3/4"-14 NPT	7.88	14.37