

HARDI® PUMP 503



General specifications

- Compact single diaphragm positive displacement pump.
- Low power consumption.
- Self-priming.
- Can be run dry.
- Can rotate clockwise or anticlockwise.
- Single grease point for lubrication.
- Dry sump to simplify maintenance.
- No special tools needed for maintenance.
- Polyurethane diaphragms and seals.
- Cast iron crankcase and covers.
- 3/4" suction port, 3/4" pressure port.
- Recommended to use HARDI® suction and pressure dampers.

503/4.0 (Ref. no. 821618)

- Cylindrical shaft, 25 mm / 0.98".
- For combustion and electric engine use.
- Supplied with narrow base plate.
- Normal operating revolutions, 800 r/min.
- Maximum pressure, 15 bar / 220 PSI.
- Maximum vacuum, 0.82 bar / 12.0 PSI.
- Weight, 9.0 kg / 20 lb.

503/4.0 (Ref. no. 821026)

- Cylindrical shaft, 25 mm / 0.98".
- For combustion and electric engine use.
- Supplied with narrow base plate.
- Normal operating revolutions, 800 r/min.
- Maximum pressure, 25 bar / 367 PSI.
- Maximum vacuum, 0.82 bar / 12.0 PSI.
- Weight, 9.0 kg / 20 lb.

503/7.0 (Ref. no. 821617)

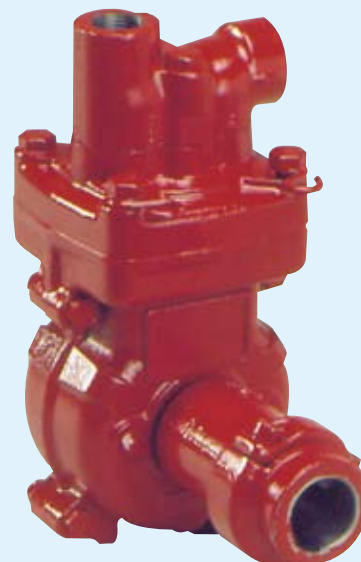
- Tapered shaft.
- For tractor use with HARDI® transmission shaft.
- Supplied with wide base plate.
- Normal operating revolutions, 540 r/min.
- Maximum pressure, 15 bar / 220 PSI.
- Maximum vacuum, 0.9 bar / 13.2 PSI
- Weight, 9.2 kg / 20 lb.

503/7.0 (Ref. no. 8216165)

- Tapered shaft.
- With 6-splined coupling for tractor P.T.O. shaft.
- Normal operating revolutions, 540 r/min.
- Maximum pressure, 15 bar / 220 PSI.
- Maximum vacuum, 0.9 bar / 13.2 PSI
- Weight, 10.3 kg / 23 lb.

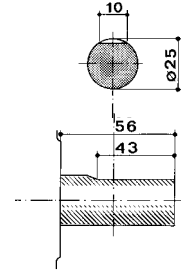
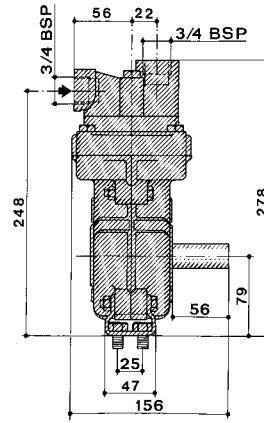
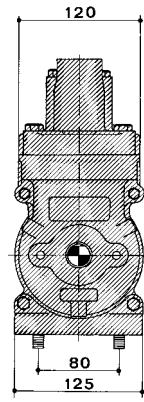


503 with direct drive unit

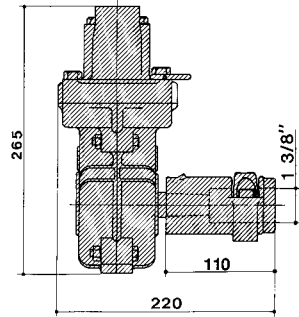
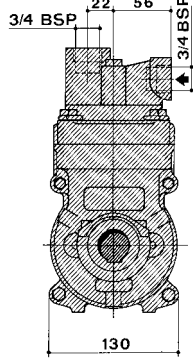


503/7.0 with PTO coupling

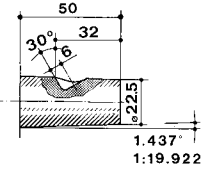
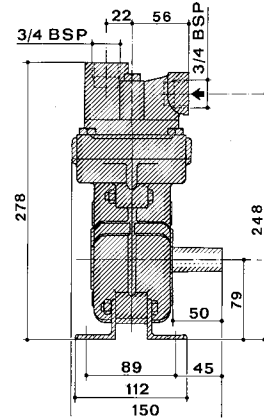
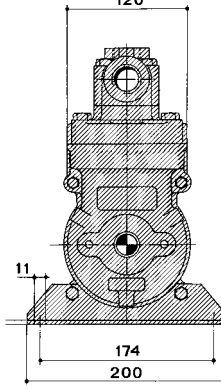
821026, 821618



821616



821617



mm to in = mm x 0.0394

	r/min	300		400		500		540		600		700		800		900		1000							
	bar	l/min	kW	l/min	kW	l/min	kW			l/min	kW	l/min	kW	l/min	kW	l/min	kW	l/min	kW						
503/4.0	0	5	0.1	7	0.1	9	0.2			12	0.2	13	0.3	14	0.4	16	0.5	17	0.5						
	2	5	0.1	6	0.2	8	0.2			9	0.3	10	0.4	12	0.5	13	0.5	15	0.6						
	4	4	0.2	6	0.2	7	0.3			9	0.4	10	0.4	12	0.5	13	0.6	14	0.7						
	6	4	0.2	5	0.3	7	0.4			9	0.5	10	0.5	12	0.6	13	0.7	14	0.8						
	10	4	0.2	5	0.3	7	0.5			8	0.6	10	0.7	11	0.7	12	0.8	14	0.9						
	15	4	0.3	5	0.4	7	0.6			8	0.7	9	0.8	11	0.9	12	1.0	13	1.1						
	20	4	0.4	5	0.5	7	0.8			8	0.9	9	1.0	10	1.1	12	1.1	13	1.2						
	25	4	0.5	5	0.6	6	1.0			7	1.1	9	1.2	10	1.3	11	1.3	13	1.4						
		PSI	gpm	hp	gpm	hp	gpm	hp			gpm	hp	gpm	hp	gpm	hp	gpm	hp	gpm	hp					
		0	1.3	0.1	1.8	0.1	2.4	0.3			3.2	0.3	3.4	0.4	3.7	0.5	4.2	0.7	4.5	0.7					
		29	1.3	0.1	1.6	0.3	2.1	0.3			2.4	0.4	2.6	0.5	3.2	0.7	3.4	0.7	4.0	0.8					
		58	1.1	0.3	1.6	0.3	1.8	0.4			2.4	0.5	2.6	0.5	3.2	0.7	3.4	0.8	3.7	0.9					
		88	1.1	0.3	1.3	0.4	1.8	0.5			2.4	0.7	2.6	0.7	3.2	0.8	3.4	0.9	3.7	1.1					
		147	1.1	0.3	1.3	0.4	1.8	0.7			2.1	0.8	2.6	0.9	2.9	0.9	3.2	1.1	3.7	1.2					
		220	1.1	0.4	1.3	0.5	1.8	0.8			2.1	0.9	2.4	1.1	2.9	1.2	3.2	1.3	3.4	1.5					
	294	1.1	0.5	1.3	0.7	1.8	1.1			2.1	1.2	2.4	1.3	2.6	1.5	3.2	1.5	3.4	1.6						
	367	1.1	0.7	1.3	0.8	1.6	1.3			1.8	1.5	2.4	1.6	2.6	1.7	2.9	1.7	3.4	1.9						
503/7.0																									
		bar	l/min	kW	l/min	kW	l/min	kW	l/min	kW	l/min	kW	l/min	kW											
		0	9	0.1	12	0.2	15	0.3	16	0.3	17	0.4	20	0.4											
		2	8	0.2	11	0.3	14	0.4	15	0.4	16	0.5	19	0.5											
		4	8	0.2	11	0.3	14	0.5	15	0.6	16	0.6	19	0.6											
		6	8	0.3	11	0.4	13	0.7	14	0.8	16	0.8	19	0.8											
		10	8	0.4	10	0.6	13	0.9	14	1.0	16	1.0	19	1.1											
		15	8	0.5	10	0.8	13	1.3	14	1.2	16	1.4	18	1.5											
		PSI	gpm	hp	gpm	hp	gpm	hp	gpm	hp	gpm	hp	gpm	hp											
		0	2.4	0.1	3.2	0.3	4.0	0.4	4.2	0.4	4.5	0.5	5.3	0.5											
		29	2.1	0.3	2.9	0.4	3.7	0.5	4.0	0.5	4.2	0.7	5.0	0.7											
		58	2.1	0.3	2.9	0.4	3.7	0.7	4.0	0.8	4.2	0.8	5.0	0.8											
		88	2.1	0.4	2.9	0.5	3.4	0.9	3.7	1.1	4.2	1.1	5.0	1.1											
		147	2.1	0.5	2.6	0.8	3.4	1.2	3.7	1.3	4.2	1.3	5.0	1.5											
		220	2.1	0.7	2.6	1.1	3.4	1.7	3.7	1.6	4.2	1.9	4.8	2.0											

Model/stroke
r/min
Bar / PSI
kW / Hp
l/min / gpm

Pump model and pump stroke in millimetre.
Maximum revolutions per minute is indicated by the highest figure.
Maximum pressure is indicated by the highest figure.
Power consumption in kilowatt and horsepower.
Capacity in litres and US gallons per minute at zero suction lift.

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