Product Code: TP-80

- TP-80 series Triplex Pumps are generally designated pump water and mud.
- They can be equipped in three different ways as Electrical motor, Diesel engine and Hydraulic driven motor.
- Triplex Pumps spare parts, ceramic cylinders, stainless valves, balls and seals can be easily changed.
- The three cylinders, which are made of steel reinforced ceramic material, are durable against to corrosion and can be changed easily.
- The valves, which are in the form of ball, are made of stainless steel and the valve seats are manufactured from tempered steel.
- The pump safety valve adjusted according to 50 bar pressure.
- If the pressure in the system exceeds these values, then the safety valve activates and by means of this the pump housing is protected against to excessive pressure.
- The pump safety valve can be adjusted to lower values mentioned above.
- The pressure values can be observed with a manometer 0-100 bar.

PUMP VARIANT / POMPA ÇEŞİTLERİ							
T2-804	Water Flow l/min	Water Pressure Bar	Transmission	Weight		imension	
TP-80H TP80-H TRIPLEX MUD PUMP / HYDRAULIC MOTOR TP-80E	75	40		117	740	620	450
TP-80EG	75	50	V-belt	265	1200	650	850
	16	50	1st Gear	305	1800	800	850
	23	50	2nd Gear				
TP-80EG TRIPLEX MUD PUMP / ELECTRICAL WITH GEARBOX	38	50	3rd Gear				
TP-80DG	75	50	4th Gear				
ı, ÇA	16	50	1st Gear	365	1800	800	950
	23	50	2st Gear				
TP-80DG TRIPLEX MUD PUMP / DIESEL WITH GEARBOX	38	50	3st Gear				
	75	40	4st Gear				



11.6 BHP Continuous Duty (13.8 B	HP Intermittent Duty)
Configuration	Horizontal Triplex Piston
Number of Pistons	3
Stroke Length	57.2 mm (2.25 Inches)
Frame Load Rating	1.27 kg (2800 lbs)
Pump Weight	91 kg (200 lbs)
Direction of Rotation	Top of shaft away from head
Internal Gear Ratio	3.6:1
Intermittent Duty Speed Rating	890 rpm
Continuous Duty Speed Rating	750 rpm
Ball Valve Max Speed Rating	625 rpm
Minumum Speed	360 rpm
Mechanical Efficiency	%85
Lubrication System	Splash, Gravity Return
Lube Oil Capacity	2.15 liters (2.25 Quartz)
Lube Oil Type	SAE 30
Maximum Fluid Temperature	140 °F (250 °F Capability)
Maximum Fluid Temperature	60 °C (-28.9 °C Capacity)
Minumum Fluid Temperature	0 °F (-20 °F Capability)
- Innamani Flaid Temperature	-17.8 °C (121 °C Capacity)
Standard Suction Size	38.1 mm (1.50 Inch NPT)
Standard Discharge Size	25.4 mm (1.00 Inch NPT)
Fluid End Material	Cast Iron
Valve Types	Ball Valves, Disc Valves
Hydraulic Motor Mount	SAE C - 4 Bolt with 1.25"-14T



PERFOR	PERFORMANCE RATING															
										Pump Ca	pacity at	Input Spe	ed (RPM)			
Pump Model	Piston [Diameter	Displa	cement	Maximum	Pressure	350	RPM	625	RPM	700	RPM	750	RPM	890	RPM
	mm	Inch	Liter	Gallon	Bar	PSI	lpm	gpm	lpm	gpm	lpm	gpm	lpm	gpm	lpm	gpm
TP80	57.2	2.25	0.122	0.0323	49	700	43	11.3	76	20.2	86	22.6	92	24.2	109	28.7

^{*} Horserpower based on %85 or %90 efficiency. Actual application horsepower requirements can be calculated using equation;

BHP= (GPM*PSI) / (1714*0.85 or 0.90)

* Pump capacities shown are based on %100 volumetric efficiency.

* Dimensions shown are for general sizing purposes and should not be used for construction. Contact Son-Mak for actual dimensions of pump ordered.

* Son-Mak reserves the right to modify this information without prior notice.





TRIPLEX WATER PUMP

Product Code: TP-135

- TP-135 series Triplex Pumps are generally designated pump water and mud.
- They can be equipped in three different ways as Electrical motor, Diesel engine and Hydraulic driven motor.
- Triplex Pumps spare parts, ceramic cylinders, stainless valves, balls and seals can be easily changed.
- The three cylinders, which are made of steel reinforced ceramic material, are durable against to corrosion and can be changed easily.
- The valves, which are in the form of ball, are made of stainless steel and the valve seats are manufactured from tempered steel.
- The pump safety valve adjusted according to 50 bar pressure.
- If the pressure in the system exceeds these values, then the safety valve activates and by means of this the pump housing is protected against to excessive pressure.
- The pump safety valve can be adjusted to lower values mentioned above, however, it should not be adjusted over 70 bar.
- The pressure values can be observed with a manometer 0-100 bar.

PUMP VARIANT / POMPA ÇEŞİTLERİ							
	Water Flow	Water Pressure	Transmission	Weight		imensior	
TP-135H	l/min	Bar			L	W	Н
TP-135H TRIPLEX MUD PUMP / HYDRAULIC MOTOR	135	35		205	880	775	520
TP-135EG							
	30	70	1st Gear	485	1800	1000	850
	45	70	2st Gear				
TP-135EG TRIPLEX MUD PUMP / ELECTRICAL WITH GEARBOX	75	70	3st Gear				
TP-135DG	135	45	4st Gear				
	30	70	1st Gear	535	1800	1000	850
	45	70	2nd Gear				
TP-135DG TRIPLEX MUD PUMP / DIESEL WITH GEARBOX	75	70	3rd Gear				
	135	45	4th Gear				



PUMP SPECIFICATIONS	
30 BHP Continuous Duty (36 BHP I	ntermittent Duty)
Configuration	Horizontal Triplex Piston
Number of Pistons	3
Stroke Length	69.9 mm (2.75 Inches)
Frame Load Rating	2.721 kg (6000 lbs)
Pump Weight	210 kg (460 lbs)
Direction of Rotation	Top of shaft away from head
Internal Gear Ratio	3.6:1
Intermittent Duty Speed Rating	1275 rpm
Continuous Duty Speed Rating	900 rpm
Ball Valve Max Speed Rating	1050 rpm
Minumum Speed	360 rpm
Mechanical Efficiency	%85
Lubrication System	Splash, Gravity Return
Lube Oil Capacity	3.78 liters (1 Gallon)
Lube Oil Type	SAE 30
Maximum Fluid Temperature	140 °F (250 °F Capability)
Maximum Fluid Temperature	60 °C (121 °C Capacity)
Minumum Fluid Temperature	0 °F (-20 °F Capability)
Miliamam Flaid Temperature	-17.8 °C (-28.9 °C Capacity)
Standard Suction Size	63.5 mm (2.50 Inch NPT)
Standard Discharge Size	31.8 mm (1.25 Inch NPT)
Fluid End Material	Cast Iron
Valve Types	Ball Valves, Disc Valves
Hydraulic Motor Mount	SAE C - 4 Bolt with 1.25"-14T



PERFOR	MANCE	RATING	G													
										Pump Ca	pacity at	Input Spe	ed (RPM)			
Pump Model	Piston [n Diameter Displacement Maximum Pressure		350	RPM	625	RPM	700	RPM	750	RPM	890	RPM			
	mm	Inch	Liter	Gallon	Bar	PSI	lpm	gpm	lpm	gpm	lpm	gpm	lpm	gpm	lpm	gpm
TP135	69.9	2.75	0.223	0.0589	68.95	1000	80.25	21.2	112	29.5	141	37.4	167	44.2	200	53

^{*} Horserpower based on %85 or %90 efficiency. Actual application horsepower requirements can be calculated using equation; BHP= (GPM*PSI) / (1714*0.85 or 0.90)

* Pump capacities shown are based on %100 volumetric efficiency.

* Dimensions shown are for general sizing purposes and should not be used for construction. Contact Son-Mak for actual dimensions of pump ordered.

* Son-Mak reserves the right to modify this information without prior notice.





Product Code: TP-220

- TP-220 series Triplex Pumps are generally designated pump water and mud.
- They can be equipped in three different ways as Electrical motor, Diesel engine and Hydraulic driven motor.
- Triplex Pumps spare parts, ceramic cylinders, stainless valves, balls and seals can be easily changed.
- The three cylinders, which are made of steel reinforced ceramic material, are durable against to corrosion and can be changed easily.
- The valves, which are in the form of ball, are made of stainless steel and the valve seats are manufactured from tempered steel.
- The pump safety valve adjusted according to 50 bar pressure.
- If the pressure in the system exceeds these values, then the safety valve activates and by means of this the pump housing is protected against to excessive pressure.
- The pump safety valve can be adjusted to lower values mentioned above, however, it should not be adjusted over 70 bar.
- The pressure values can be observed with a manometer 0-100 bar.

PUMP VARIANT / POMPA ÇEŞITLERI	Water Flow	Water Pressure	Transmission	Weight	D	mension	hs
TP-220H	l/min	Bar		Weight ,	L	W	Н
TP-220DG	200	35		250	880	775	520
	50	70	1st Gear	660	1800	1000	850
	70	70	2st Gear				
	110	70	3st Gear				
TP-220DG TRIPLEX MUD PUMP DIESEL WITH GEARBOX	220	45	4st Gear				

PUMP SPECIFICATIONS	
37 BHP Continuous Duty (52 BHP In	ntermittent Duty)
Configuration	Horizontal Triplex Piston
Number of Pistons	3
Stroke Length	69.9 mm (2.75 Inches)
Frame Load Rating	2.721 kg (6000 lbs)
Pump Weight	200 kg (440 lbs)
Direction of Rotation	Top of shaft away from head
Internal Gear Ratio	3.6:1
Intermittent Duty Speed Rating	900 rpm
Continuous Duty Speed Rating	750 rpm
Ball Valve Max Speed Rating	635 rpm
Minumum Speed	360 rpm
Mechanical Efficiency	%85
Lubrication System	Splash, Gravity Return
Lube Oil Capacity	3.78 liters (1 Gallon)
Lube Oil Type	SAE 30
Maximum Fluid Temperature	140 °F (250 °F Capability)
Maximum Fulu Temperacure	60 °C (121 °C Capacity)
Minumum Fluid Temperature	0 °F (-20 °F Capability)
Mindinani Flata Temperature	-17.8 °C (-28.9 °C Capacity)
Standard Suction Size	50.8 mm (2.00 Inch NPT)
Standard Discharge Size	31.8 mm (1.25 Inch NPT)
Fluid End Material	Cast Iron
Valve Types	Ball Valves, Disc Valves
Hydraulic Motor Mount	SAE C - 4 Bolt with 1.25"-14T



PERFOR	PERFORMANCE RATING																				
										Pump Ca	pacity at	Input Spe	ed (RPM)								
Pump Model	Piston [Diameter	Displa	cement	Maximum	Pressure	350 RPM		625 RPM		700 RPM		750 RPM		890 RPM						
	mm	Inch	Liter	Gallon	Bar	PSI	lpm	gpm	lpm	gpm	lpm	gpm	lpm	gpm	lpm	gpm					
TP220	69.9	2.75	0.223	0.0589	68.95	1000	80.25	21.2	112	29.5	200	53	234	61.9	284	75.1					

^{*} Horserpower based on %85 or %90 efficiency. Actual application horsepower requirements can be calculated using equation;

BHP= (GPM*PSI) / (1714*0.85 or 0.90)

* Pump capacities shown are based on %100 volumetric efficiency.

* Dimensions shown are for general sizing purposes and should not be used for construction. Contact Son-Mak for actual dimensions of pump ordered.

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