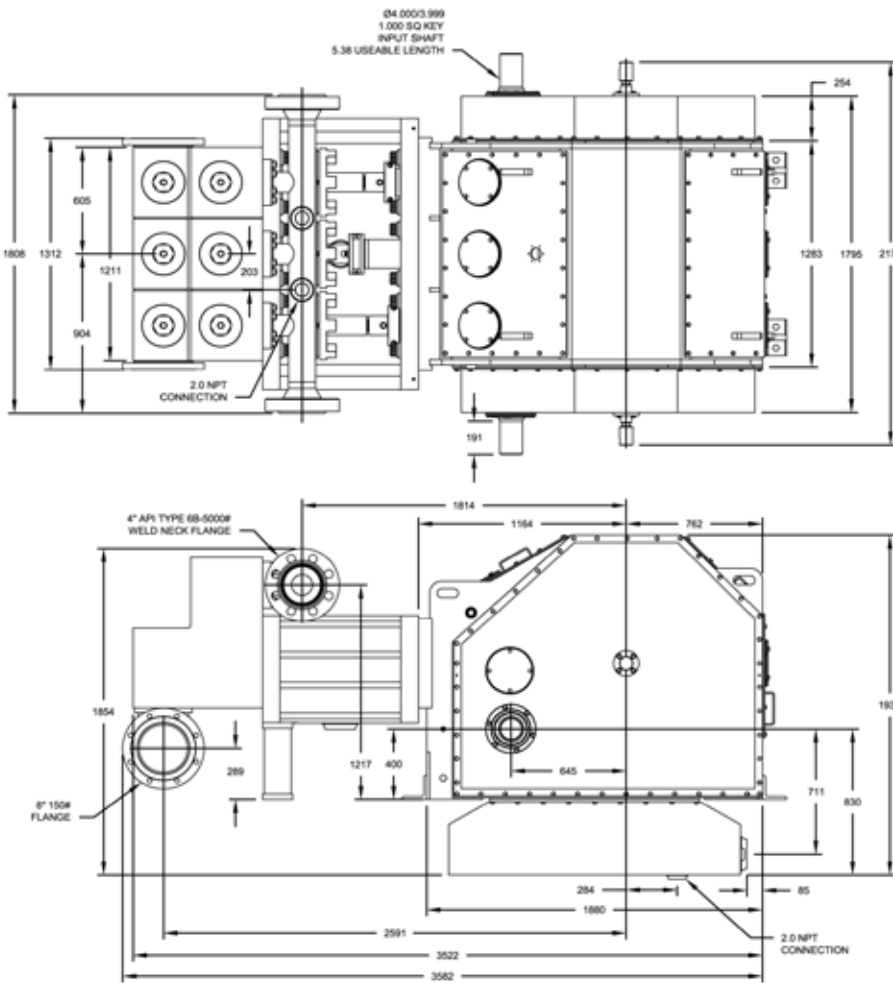


# MUD 562 Triplex Piston Pump



Flange Connections

Pump Model	Discharge Connection Sizes	Suction Connection Sizes
Calder MUD 562	4" ANSI Flange	6" (152.4) Grooved Pipe 8" ANSI 150 lb

## Specifications

**Pump Type:**

Triplex Reciprocating Piston Pump

**Maximum Input Power:**

562 kW (750 HP) Continuous

**Stroke Length:** 200 mm

**Maximum Rod Load:** 445 kN (100,000 lbs)

**Approximate Weight:** 8,200 Kgs

**Pump Power End:**

Fabricated from High Strength Alloy Steel

**Gears:** Helical

**Gear Ratio:** 6.35:1 / 7.00:1 / 7.5:1

**Rod Bearings:** Shell Type Replaceable

**Main Bearings:** Straight Roller

**Pinion Bearings:** Spherical Roller

**Crankshaft:** Alloy Steel Nitrided

**Connecting Rod:** One Piece Forged Steel

**Crosshead:** Cast Steel

**Crosshead Guide:** Bronze Replaceable

**Fluid End:** Piston Type Segmented Block

**Piston Diameter:**

114 mm to 178 mm (4.5 to 7.0 inches)

**Liners:** Hard Steel or Blue Lightening

**Discharge Connection:** 4" ANSI Flange

**Suction Inlet:** 8" ANSI 150 lb RF

**Valves and Seals:**

APT 6 Stem Guided & Hard Steel Seats

**Power End Lubrication:**

140 Lpm Required

**Packing Lubrication:** Optional Air Driven Air/Oil or

Mechanical Oil Drip System Available



# MUD 562 Triplex Piston Pump

INNOVATION THROUGH EXPERIENCE

## Continuous Duty Performance Chart

### 4.5" to 7.0" Piston x 8" Stroke, Single Acting Triplex Piston Pump

#### IMPERIAL UNITS

Piston Diameter	Displacement Factors@100% Volumetric Efficiency	Pump Speed in Crankshaft Revolutions per Minute (RPM)									
		60		80		100		120		140***	
		Capacity @100% VE**	Discharge Pressure	Capacity @100% VE**	Discharge Pressure	Capacity @100% VE**	Discharge Pressure	Capacity @100% VE**	Discharge Pressure	Capacity @100% VE**	Discharge Pressure
US Gallons/Rev	GPM	Max @ Capacity	GPM	Max @ Capacity	GPM	Max @ Capacity	GPM	Max @ Capacity	GPM	Max @ Capacity	
Inches	GPR	PSIG	PSIG	PSIG	PSIG	PSIG	PSIG	PSIG	PSIG	PSIG	
7	3.999	240	2211	320	2209	400	2208	480	2208	560	1952
6.5	3.448	207	2563	276	2562	345	2561	414	2560	483	2264
6	2.938	176	3008	235	3006	294	3005	353	3004	411	2657
5.5	2.468	148	3581	197	3579	247	3577	296	3576	346	3162
5	2.04	122	4500	163	4500	204	4500	245	4500	286	3826
4.5	1.652	99	5000	132	5000	165	5000	198	5000	231	4724
Input Power @ 85% ME***	BHP**	364		485		606		750		750	
Pinion RPM @ 7.0 : 1 Gear Ratio		420		560		700		840		980	

\*VE = Volumetric Efficiency, \*\*BHP (Brake Horsepower) is based on 85% Mechanical Efficiency. \*\*\* Speeds above 120 RPM are not recommended for continuous drilling operation.

#### METRIC UNITS

Piston Diameter	Displacement Factors@100% Volumetric Efficiency	Pump Speed in Crankshaft Revolutions per Minute (RPM)									
		60		80		100		120		140***	
		Capacity @100% VE**	Discharge Pressure	Capacity @100% VE**	Discharge Pressure	Capacity @100% VE**	Discharge Pressure	Capacity @100% VE**	Discharge Pressure	Capacity @100% VE**	Discharge Pressure
mm	LPR	LPM	Max @ Capacity	LPM	Max @ Capacity	LPM	Max @ Capacity	LPM	Max @ Capacity	LPM	Max @ Capacity
mm	LPR	Bar	Bar	Bar	Bar	Bar	Bar	Bar	Bar	Bar	Bar
178	15.14	908	152	1211	152	1514	152	1817	152	2120	135
165	13.05	783	177	1045	177	1306	177	1567	177	1828	156
152	11.12	666	207	889	207	1113	207	1336	207	1556	183
140	9.34	560	247	746	247	935	247	1120	247	1310	218
127	7.72	462	310	617	310	772	310	927	310	1083	264
114	6.25	375	345	500	345	625	345	749	345	874	326
Input Power @ 85% ME***	kW	273		364		455		562		563	
Pinion RPM @ 7.0 : 1 Gear Ratio		420		560		700		840		980	

\*VE = Volumetric Efficiency, \*\*kW (Brake kW) is based on 85% Mechanical Efficiency. \*\*\* Speeds above 120 RPM are not recommended for continuous drilling operation.

