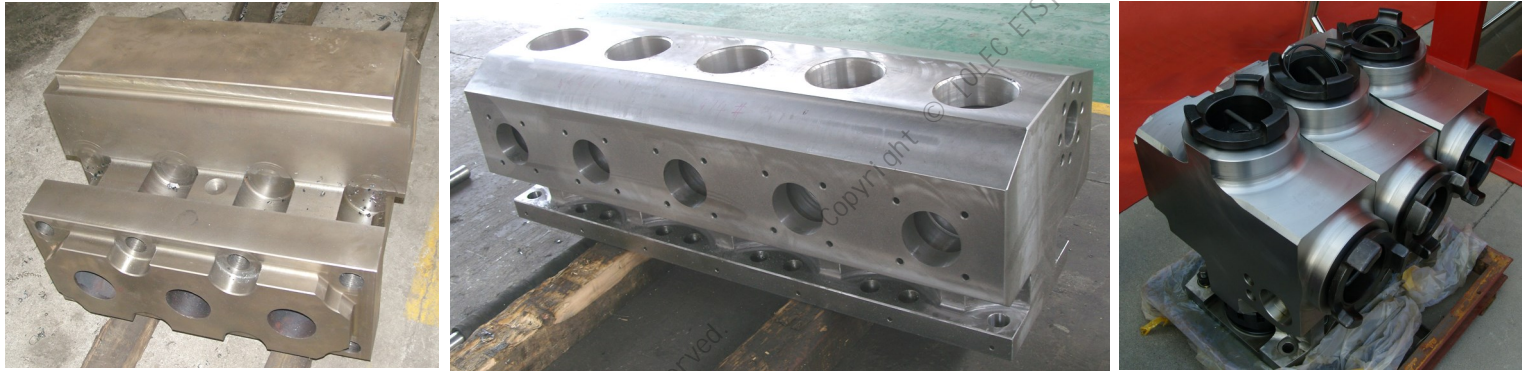


Fluid end of fracturing truck needs a high quality, high pressure resistance as well as corrosion and low temperature work. We succeeded in assuring the quality of each product through effectively controlling more than 30 procedures: metallographic examination, chemical analysis, mechanical property test. Heat treatment, in-process control, dimensions check, pressure etc. All these involved in about 300 data and make high quality goods effectively. We obtain the achievement mainly depend on advanced test equipment and powerful quality control group.



### Reference Guide of Pumps

QWS the first letter stands for cylinders T=Triplex Q=Quintuplex latter two letters stands for work cycle  
 WS=intermittent, such as wellhead operations HB=long-term, such as water jet  
 3000 represents the maximum rated brake power 3000=3000 brake horsepower

### Generic Formula of Pumps

GPM-Gallons Per Minute PSI-Pounds Per Square Feet GPR-Gallons Per Rotate RPM-Rotate speed per minute  
 $GPM = GPR * RPM$

**Materials performance:** Comply with SAE 4330V material standards of USA.

**Design advantage:** Forged SAE 4330V alloy steel, high pressure resistance, impact resistance to extend service life.

**Work strength:** Keeping high performance operation 10 hours every day, six days every week under harsh conditions.

**Application:** Acidification treatment, high aggregate, high pressure, large displacement and fracturing operation under harsh conditions.



Extend the Service life of pumps & standardized operations can extend the life of pumps.

To extend service life of pumps: standardized operations can extend the life of pumps.

Customers shall observe and take the following tools and practices

- Adequate size and maintaining suction pulsation damper
- Proper maintenance of the valve / seat / inserts
- Improving the discharge fluctuations (which may require high-pressure buffer)
- Correct location of pipelines and supercharger
- Proper mixing ratio of sand with gel and appropriate operations

### Maintenance

Customers need to establish, run and record the observed data in order to ensure the correct maintenance plans:

- Check the valve and valve inserts of fluid end
- Check the valve seat of fluid end
- Check the valve spring of fluid end
- Inspection of plunger and packing



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## OLEC Plunger Pump Fluid End Charts

Pump Manufacturer	Pump Model	Plunger Size	Fluid End	Fluid End Assembly	Pump Manufacturer	Pump Model	Plunger Size	Fluid End	Fluid End Assembly
DOWILL	TWS-300	3.75"	✓	✓					
		4"	✓	✓					
		4.5"	✓	✓					
		5"	✓	✓					
HALLIBURTON	HT-400	3.375"	✓	✓					
		4"	✓	✓					
		4.5"	✓	✓					
		5"	✓	✓					
	HT-2000 (3+2)	3.375"	✓	✓					
		4"	✓	✓					
4.5"		✓	✓						
SPM	TWS-600S	2.5"	✓	✓					
		3"	✓	✓					
		3.5"	✓	✓					
		4"	✓	✓					
		4.5"	✓	✓					
	QWS-1000S	3"	✓	✓					
		3.5"	✓	✓					
	QWS-2000	4"	✓	✓					
	TWS-2000	4.5"	✓	✓					
		5"	✓	✓					
	QWS-2250	4.5"	✓	✓					
	QWS-2500	4"	✓	✓					
	QWS-2800	3.75"	✓	✓					
	QWS-2800	4"	✓	✓					
SQP-2800	4.5"	✓	✓						
JMAC-Y	TWS-2250	4.5"	✓	✓					
DBS	TWS-2250"	4"	✓	✓					
		4.5"	✓	✓					
		5"	✓	✓					
		5.5"	✓	✓					
	QWS-2250	4"	✓	✓					
		4.5"	✓	✓					
5"		✓	✓						
GARDNER DENVER	CWS-2250	3.75"	✓	✓					
		4"	✓	✓					
		4.5"	✓	✓					
		5"	✓	✓					
		5.5"	✓	✓					
		6"	✓	✓					
	6.5"	✓	✓						
TWS-3000	4.5"	✓	✓						
FMC	QWS-2700	4"	✓	✓					
ROUGH RIBER	TWS-1500	4"	✓	✓					
OPI	AWS-1800	4"	✓	✓					
		4.5"	✓	✓					
		5"	✓	✓					

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