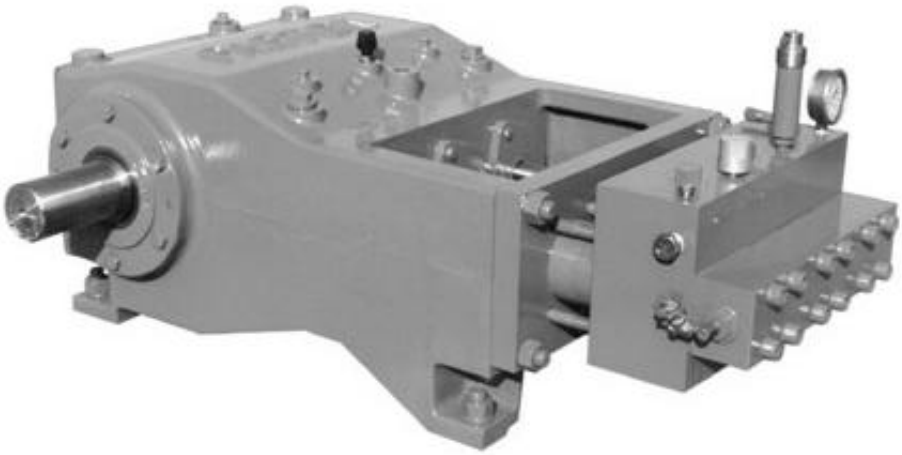
TF-450M/MB

Pressures to 15,000 PSI
Flows to 60.6 GPM • Power 300 HP

Features



- "L" fluid end design.
- Pressure range of 7,500 PSI to 15,000 PSI.
- Flow rates from 12.8 GPM to 60.6 GPM.
- High volumetric efficiency for maximum horsepower utilization.
- Maximum frame load of 20,750 Lbs. / 9420 Kg for multi-speed and 18,000 Lbs. / 7378 Kg for single speed.
- Field proven design.
- Extremely reliable - thousands in service.
- Easy field maintenance.
- All stainless steel fluid end construction.
- Manufactured on state-of-the-art machinery.
- Rigorously subjected to full load testing.

Applications

- Water Blasting
- Chemical Injection
- Hydrostatic Testing
- Boiler Feeder
- Process Water Disposal

Performance Specifications

		MAX. PRESSURE		FLOW					
				200 RPM		400 RPM		500 RPM	
	PLUNGER DIA.	PSI	BAR	GPM	LPM	GPM	LPM	GPM	LPM
TF-450M/MB Note: All flows are based on 100% volumetric efficiency.	*1.187" - 30mm	15K	1034	12.9	49.0	25.6	98.1	32.0	122.0
	1.312" - 33mm	12K	828	15.8	59.9	31.6	119.5	39.5	149.8
	1.437" - 37mm	10K	690	19.0	71.8	37.9	143.6	47.4	179.5
	1.625" - 41mm	7.5K	517	24.2	91.8	48.5	183.5	60.6	229.4

Stroke: 4.5" / 114 mm • **Max. Speed:** 520 RPM • **Weight:** 2,780 Lbs. / 1261 Kg

*Autofrettaged Fluid End

Note: Pumps bored to accomodate 1 5/8" plungers are limited to 12,000 PSI (MB).

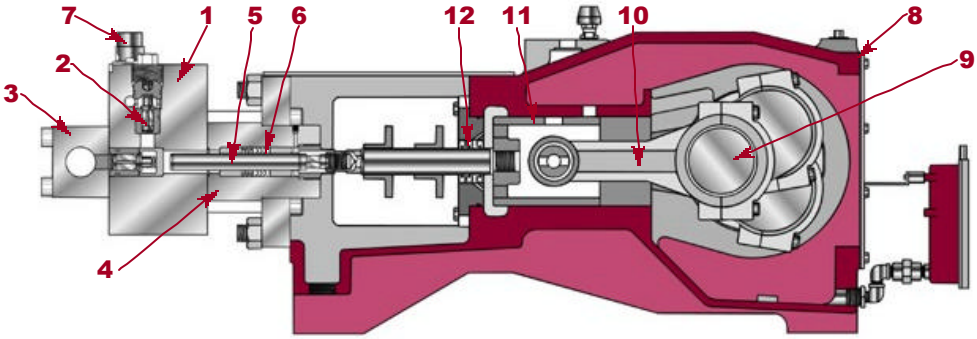
GARDNER DENVER WATER JETTING SYSTEMS, INC.

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TF-450M/MB PUMP



Fluid End

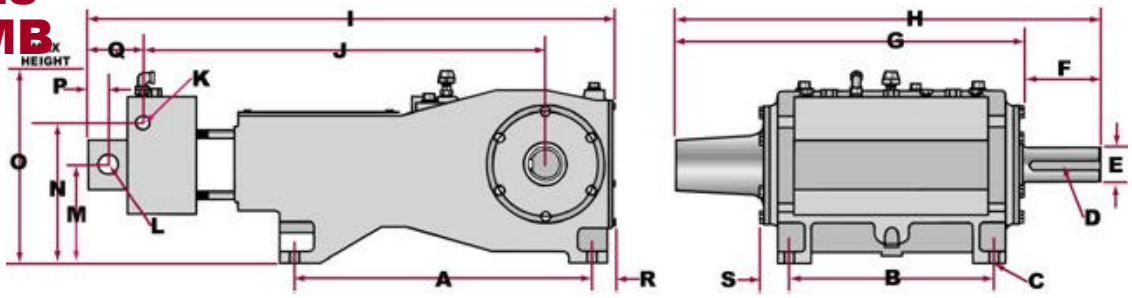
1. **Fluid Cylinder Body:** Machined from a solid block of stainless steel. Internal cylinder bore volume is mini mized and cylinder is autofrettaged for service above 12,000 psi.
2. **Valves:** Heat-treated stainless steel, wing-guided and spring-loaded for positive closing. Valve seats are straight shoulder with o-ring seals. Both are machined, heat-treated and ground.
3. **Suction Manifold:** Anodized aluminum. Also available in stainless steel for salt water applications.
4. **Stuffing Boxes:** Machined from heat treated stainless steel.
5. **Plungers:** Colmonoy coated stainless steel.
6. **Plunger Packing:** Multiple element chevron style, spring-loaded and self-adjusting. Easily replaceable from the rear of the stuffing box. Force-fed water provides lubrication and cooling.
7. **Pressure Relief:** Pressure safety head assembly (rupture disc), integrally mounted in the fluid cylinder. Relief valve is included.

Power End

8. **Power Frame:** Manufactured from a single piece casting of high strength gray cast iron.
9. **Crankshaft:** Double extended cast alloy steel with tapered roller bearings to minimize side thrust load.
10. **Connecting Rods**: Ductile iron with automotive type split insert bearings.
11. **Crossheads:** Large, piston type constructed of gray iron.
12. **Diaphragm Seals:** Installed with o-rings or gaskets and neoprene oil seals.

Bearings and crossheads are oil lubricated with a combined splash gravity system that insures adequate circulation at speeds as low as 200 RPM.

Dimensions TF-450M/MB



	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
in.	36 1/4	24	1 5/16	1	4 1/4	7 3/4	31 1/2	47 3/4	58 1/4	43 7/8	1MP	2NPT	12	16 1/4	22 3/4	2 7/8	6 3/8	2 3/8	3 3/4
mm	921	610	33	25	108	197	800	1213	1480	1114			305	413	578	73	162	60	95

Gardner Denver Water Jetting Systems reserves the right to change specifications without notice.

GARDNER DENVER WATER JETTING SYSTEMS, INC.
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Your local distributor/representative is: