



SELF PRIMING NON-CLOG PUMP MECHANICAL SEAL TYPE

ROTATION :

- Marked with arrow on casing of each pump, Check before coupling with prime mover.

BASE PLATE:

- Suitable base frame can be supplied with pump.

M.O.C.:

- C.I., C.S., SS 304, SS 316, Bronze, Alloy 20, CD4MCU

MECHANICAL SEAL OPTION:

- STV (Carbon vis Ceramic/Tc with NBR Elastomer)
- CCV (Carbon vis Ceramic/Tc with Viton Elastomer)
- CCT (Carbon v/s Ceramic/Tc with PTFE Elastomer)

RPM 2900 Hz - 50

SELFPRIME (TselfX)

DESIGN

Perfect self priming action with maximum suction head of eight mtrs. Impellers with wider flow passage avoid clogging and can handle solids up to 25 mm dia. Back pullout design, simplifies inspection and maintenance. Compact, light weight & yet rugged construction.

FEATURES

- Perfect sealing assured by high quality mechanical seal which cannot run dry because of internal oil reservoirs.
- Graded casting & SS shaft, increase service life.
- Bearings greased for life, save external lubrication. Minimum need for inspection and maintenance.
- Drive options of electric motor, coupled or belt-drive versions or by petrol/diesel engine.

APPLICATIONS :

- Dewatering, Mud, Marine, Effluent, Hotel, Loading & Transfer of Oils, Spirits, Swimming Pools, Gas, Oils, Engine cooling.
- Vessels, Industrial-pumping petroleum products, Chemical.
- Civil construction dewatering foundations, Trenches and Pits, Filter press feeding, ETP, STP, Waste water treatment plant.
- Mobile machinery - cooling water for marine engines and shovels.
- Public utilities-sewage pumping.
- Pier, Excavations, Pits, Pot-holes etc., Gram Panchayats, Municipalities, Public Health Departments, Large housing colonies, Industries like Chemical, Pharmaceuticals, Food, Cement, Paper, Sugar, Salt, Steel and other for liquid cargo from Freighter, Barges.

PERFORMANCE CHART

RPM 2900 Hz - 50

Model	Size (mm) SUC. DEL.	Solid Handling Size (mm)													Capacity M ³ /hr	Weight Kgs	
			3	6	9	12	15	18	24	30	36	45	60	75			
TselfX-11/3	32	7.5	15.2/0.43 0.6	13.7/0.55 1.5	11.5/0.63 2.8	9.9/0.68 4.3										Hm/Kw NPSH	15
TselfX-11/4	40	12	16.3/0.68 0.6	15.2/0.71 1.0	14.2/0.75 1.3	13.0/0.79 1.9	11.6/0.84 2.9	10.0/0.9 4.8									17
TselfX-12B/5	50	10	20.0/1.10 1.2	19.0/1.12 1.25	17.8/1.16 1.4	16.5/1.21 1.6	15.4/1.29 2.1	14.0/1.36 2.8	10.2/1.49 5.0								30
TselfX-12/5	50	13		19.8/1.10 1.2	18.9/1.17 1.3	18.0/1.22 1.6	17.1/1.29 2.0	16.1/1.36 2.8	13.7/1.56 5.0	10.3/1.73 7.3							30
TselfX-12/6	65	20				19.2/1.58 0.9	18.5/1.60 1.0	18.0/1.66 1.1	16.7/1.79 1.5	15.5/1.97 1.9	14.4/2.15 2.7	12.0/2.45 4.4	4.0/2.65 9.2				40
TselfX-14/8	80	24					22.5/2.7 1.7	22.0/2.8 1.7	21.0/3.0 1.7	20.5/3.2 1.8	19.8/3.4 2.0	18.5/3.6 2.6	15.0/3.8 4.4	10.2/3.8 7.5			46
TselfX-15/6	65	11				29.0/2.85 1.5	28.0/2.95 2.0	27.0/3.05 2.2	25.0/3.25 2.7	23.0/3.5 3.4	20.8/3.7 4.4	16.0/3.95 6.3					40
TselfX-15/3	32	6	32.0/1.25 0.35	28.5/1.41 1.0	24.3/1.56 2.0	19.2/1.73 4.3	10.0/1.84 8.0										26
TselfX-16/6	65	12				35.0/3.55 2.5	34.5/3.7 2.5	34.0/3.2 2.6	34.4/4.25 3.0	31.0/4.6 3.8	29.0/4.95 5.4	22.5/5.3 7					40
TselfX-18/4	40	6.5	39.5/2.34 2.5	37.0/2.58 2.25	34.0/2.85 2.5	31.0/3.13 3.3	27.5/3.4 4.8	22.0/3.5 6.8									65
TselfX-20B/5	50	4		48.0/3.44 2.3	47.5/3.75 2.2	46.0/4.10 2.2	45.0/4.4 2.6	43.0/4.71 3.4	33.0/5.28 6.8								90
TselfX-22/6	65	10				57.0/6.25 2.6	56.0/6.6 2.6	55.0/6.95 2.5	53.0/7.69 2.5	50.0/8.38 2.6	47.0/9.1 2.9	42.0/10.0 3.6	31.5/11.2 6.6				110

Note : Performance applicable to liquid of specific gravity 1 and viscosity as of water.



SELF PRIMING MONOBLOCK PUMP



FEATURES:

- Can withstand wide voltage fluctuations. From 180 to 240 volts for single phase From 300 to 440 volts for three phase also available in 50z and 60z.
- Efficiency at par with internationally available pumps.
- Quick automatic self priming action. Designed for automatic air release during priming.
- Non clogging impeller to handle suspended solids.
- Repairs possible without disturbing the pipe connections due to back pull out design. (Except JMP 40 SM)
- No need for foot valve.
- Long life due to replaceable wearing parts.
- Dynamically balanced rotating parts ensure minimum vibrations.
- Easy maintenance and spares availability.

MATERIAL OF CONSTRUCTION:

Standard	: Cast Iron
Supply Impeller	: Cast Iron/ SS / Bronze
Motor Body Shaft	: Carbon Steel
Shaft Sleeve	: Bronze

DIRECTION OF ROTATION:

TPS-MP-40SM, TPS-MP-40SM	
TPS-MP-40BM, TPS-MP-50M	: Anti Clockwise
TPS-MP-80LM	: Clockwise

When viewed from suction side

PERFORMANCE CHART

MOTOR COUPLED

Model	Size (mm) Suc. x Del.	Head (mtr)												SOLID HANDLING SIZE (mm)	FULL LOAD CURRENT (AMP)	RATED VOLTAGE (V)	kW	HP	RPM	
		6	8	10	12	14	16	18	20	22	24	28	32							
Discharge in LPS																				
TPS-MPM-40 SM	40 x 40	4.45	3.95	3.25	2.3	1.5								7.0	1.9	415	0.75	1.0	2880	
TPS-MPM-40 BM	40 x 40			5.75	5.13	4.25	3.13	1.5						8.5	3.9	415	1.5	2.0	2880	
TPS-MPM-50 BM	50 x 50			8.75	8.2	7.48	6.55	5.5	4.3	3.0	1.1			10.5	4.7	415	2.2	3.0	2880	
TPS-MPM-80 SM	80 x 80								10	9.3	8.2	5.2	2	7.0	8.0	415	3.7	5.0	2880	
TPS-MPM-80 LM	80 x 80			17.4	15.4	12.5	8.1	3.5						15.5	8.0	415	3.7	5.0	1440	

Note : Performance applicable to liquid of specific gravity 1 and viscosity as of water.

TPS-MPM-40 SM is supplied for 210 V single phase A.C. Power supply and has mechanical seal arrangement. However, it can also be supplied in three phase A. C. power against the requirement. All other pump sets are supplied for three phase A.C power supply and with stuffing box arrangement for gland pack or mechanical seal as per the requirement.



SINGLE STAGE HORIZONTAL CENTRIFUGAL, SELF PRIMING, END SUCTION COUPLED PUMP

VOLUTE CASING:

Heavy duty built in volute having self priming features and integrally cast with base from closed grained C.I. castings.

IMPELLER:

Non-clogging designed for high efficiency. Semi open type and are hand finished for perfect smooth flow.

SHAFT:

Made of EN 9 steel specifications ample size to transmit power without distortion or vibration.

BEARINGS:

Antifriction ball bearings, single row deep grooved heavy selected to provide maximum service. Grease lubrication arranged by grease cups.

STUFFING BOX:

Deep gland box used with graphite packing are lubricated by lantern ring with grease.

FLANGES:

Companion flanges are supplied along with pumps.

ROTATION:

Marked with arrow on casing of each pump, Check before coupling with prime mover.

BASE PLATE:

Suitable base frame can be supplied with pump.

M.O.C.:

C.I., C.S., SS 304, SS 316, Bronze, Alloy 20, CD4MCU etc...

TPS-MP SERIES

SPECIAL FEATURES:

- Long life due to replaceable wearing parts.
- Dynamically balanced rotating parts.
- Quick automatic self priming action.
- Repairs possible without disturbing the pipe connection.
- Non-clogging impeller to handle suspended solids.
- Portable when fitted on trolley/trailer.
- Suitable for motor/engine.
- Efficiency at par with internationally available pumps.
- Top flat efficiency over the entire operating range.
- No foot valve required. No priming of suction pipe line.
- Sturdy construction, simple design, replicable wear plates & hence minimum maintenance required.
- Non-clogging and handles solids up to 50 mm.
- Back pull-out design. Best suitable for engine drive pumping.

PERFOMANCE CHART

- Long life due to replaceable wearing parts.
- Dynamically balanced rotating parts.
- Easy maintenance and pump spare availability.
- Designed for automatic air release during priming.
- Grease lubricated deep grooved ball bearings.

APPLICATIONS:

- Dewatering, Mud, Marine, Effluent, Hotel, Loading & Transfer of Oils, Spirits, Swimming Pools, Gas, Oils, Engine cooling.
- Vessels, Industrial-pumping petroleum products, Chemical.
- Civil construction dewatering foundations, Trenches and Pits, Filter press feeding, ETP, STP, Waste water treatment plant.
- Mobile machinery - cooling water for marine engines and shovels.
- Public utilities-sewage pumping.
- Pier, Excavations, Pits, Pot-holes etc., Gram Panchayats, Municipalities, Public Health Departments, Large housing colonies, Industries like Chemical, Pharmaceuticals, Food, Cement, Paper, Sugar, Salt, Steel and other for liquid cargo from Freighters, Barges.

PERFOMANCE CHART

Model	Size (mm) SUC. DEL.	Impeller Ø (mm)	Solid Handling Size (mm)	Head (mtr)																Power Rating					Speed					
				6	8	10	12	14	15	16	18	19	20	22	24	25	26	28	30	32	34	35	40	50						
Capacity in LPS																														
TPS-MP-40S	40 x 40	116	7.0	4.6	4.1	3.5	2.6	1.5	0.5																1.0	0.75	2880			
TPS-MP-40B	40 x 40	134	8.5		6.8	5.9	5.3	4.9	4.4	3.9	1.9	1.5	0.8												2.0	1.5	2880			
TPS-MP-50	50 x 50	145	10.5			9.0	8.2	7.5	7.0	6.7	5.7	5.0	4.7	4.0	2.6	1.9	0.8								3.0	2.2	2880			
TPS-MP-80S	80 x 80	174	7.0												10.0	9.3	8.2	7.5	6.8	5.2	3.8	2.0				5.0	3.7	2880		
TPS-MP-80B	80 x 80	174	14.5												17.2	16.3	16.2	15.5	14.8	14.0	12.5	10.2	8.0	5.5	4.8		7.5	5.5	2880	
TPS-MP-80LH	80 x 80	208	10.0			20.8									20.0								18.5			16.5	11.1	15.0	11.0	2880
TPS-MP-80L	80 x 80	224	15.0	19.7	18.9	18.0	16.4	14.0	12.0	10.1	5.2														5.0	3.7	1440			
TPS-MP-100S	100 x 100	292	18.5			36.0	33.9	31.2	30.1	28.6	25.5	23.9	22.5	18.0	12.0										10.0	7.5	1440			
TPS-MP-100B	100 x 100	292	23.0			44.5	39.5	36.6	35.3	33.8	30.5	28.5	26.2	21.8	16.5	13.3	10.0	8.0							12.5	9.3	1440			
TPS-MP-150S	150 x 150	296	34.0			66.2	63.3	59.8	57.5	55.0	48.9	45.5	42.4	34.2	23.8	20.0									20.0	15.0	1440			
TPS-MP-150B	150 x 150	296	40.0			75.0	72.0	68.0	66.2	64.0	58.5	55.5	52.0	45.0	34.0	27.5	20.0								25.0	18.7	1440			
TPS-MP-200	200 x 200	314	50.0					177.0	170.0	168.0	160.0	153.0	149.0	130.0	104.0	80.0	55.0								60.0	45.0	1440			
TPS-MP-80L	80 x 80	224	15.0	20.3	19.9	19.0	17.7	15.6	14.1	12.5	8.8	6.3	3.5												6.0	4.0	1500			
TPS-MP-80L	80 x 80	224	15.0			24.2	23.6	23.0	22.5	22.0	20.7	19.9	19.0	16.7	13.7	12.0	10.1	6.0							12.0	9.0	1800			
TPS-MP-100S	100 x 100	292	18.5			36.6	33.9	32.5	31.2	28.2	26.6	25.0	21.5	17.1	14.5	11.5									12.0	9.0	1500			
TPS-MP-100B	100 x 100	292	23.0			41.4	39.1	38.0	36.0	33.9	32.3	30.5	26.4	21.5	18.5	16.0	9.9								14.0	10.5	1500			
TPS-MP-150S	150 x 150	296	34.0			68.0	66.1	63.0	62.0	59.0	53.5	51.7	48.0	41.0	32.8	28.4	22.5								22.0	16.5	1500			
TPS-MP-150B	150 x 150	296	40.0			77.5	75.0	72.0	71.0	68.0	63.0	62.0	57.0	51.0	42.5	38.8	32.5								26.0	19.5	1500			

Note: *Performance applicable to liquid of specific gravity one and viscosity as of water.



POWERFUL MULTIPURPOSE PUMPS



HANDLING
CHEMICALS, EFFLUENTS
SEWAGE & ASH-WATER



DE-WATERING
FOUNDATION,
TRENCHES & PITS



FLOOD
WATER HANDLING



PUMPING WATER
FROM DOCKS, PORTS,
VESSELS



DEWATERING FROM
BASEMENTS, ROAD
HIGHWAYS, PARKING
LOTS, ETC.



COOLING WATER FOR
MARINE ENGINES
AND SHOVELS



NON CLOG
IMPELLER



SUPERIOR
MECHANICAL
SEAL



REPLACEABLE
WEARING
PARTS



EASY
MAINTANCE
DESIGN



SELF
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