



We defy gravitational force



SELF-PRIMING PRINCIPLE

Air is drawn into the pump by the vacuum produced as the Impeller rotates and is emulsioned with the liquid contained in the pump casing. The air/liquid mixture is driven into the priming chamber where the air, which is less dense, separates out and vents through the delivery line while the liquid, due to the higher density, falls back and is recirculated. When all the air has been evacuated from the suction line, the pump primes and operates like a normal centrifugal pump, it can also handle a mixture of air and liquid. The check valve mounted in the pump suction serves two purposes: it prevents the liquid from draining out of the suction line when the pump is not in operation, and if the suction line is drained by accident, enough liquid is retained in the pump casing for the pump to reprime. The delivery line must allow the air drawn from the suction line to vent to atmosphere.

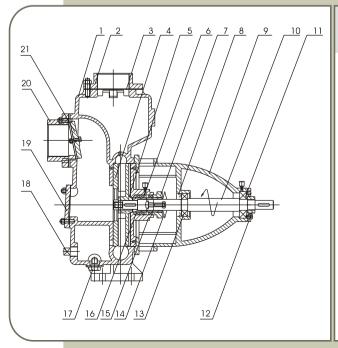
JMD series pumps are self priming centrifugal pumps with open / semi open impeller handling polluted liquids with large diameter suspended solids. The solid rugged design with replaceable wear plate and back pull out design makes it most reliable option.



FEATURES

- Simple Construction having back-pullout design.
- Easy inspection of impeller.
- Quick Self-priming action without foot-valve up to 7.5m.
- Pumping large size diameter solid in suspension.
- Available in Mono-block & Bare-shaft design for v-belt / couple set version.
- Various options for material of Construction, like -AISL Ss304, AISI316, Bronze & Sealing.
- Option for separate volute design and replaceable wear plate Gland Plate for quick, Low-cost & easy maintainance.
- Standard model having SS410 Sleeve, Wear Plate Screw, Imp. Nut; C40 Shaft, Rest in FG200 Cast Iron.

GENERAL VIEW OF PARTS OF SELF PRIMING COUPLED PUMP



PART.	DESCRIPTION	PART.	DESCRIPTION
NO.		NO.	
1	VOLUTE CHAMBER	12	LOCK NUT ('NDE' BEARING)
2	DELIVERY FLANGE	13	`DE' BEARING
3	GASKET PACKING	14	WATER DEFLECTOR
4	WEAR PLATE	15	GLAND PLATE
5	IMPELLER	16	GLAND PACKING
6	LANTERN RING	17	BOTTOM DRAIN PLUG PLATE
7	GLAND	18	FRONT DRAIN PLUG
8	OIL SEAL	19	VOLUTE CHAMBER PLATE
9	BEARING BRACKET	20	SUCTION FLANGE
10	PUMP SHAFT	21	NON RETURN VALVE
11	`NDE' BEARING		

APPLICATIONS

JMD pumps are used when one or more of the following are required:

• Self priming • Solid / Polluted handling. • Resistance to abrasion.

JMD Pumps can handle liquids up to a Viscosity of about 50 mm²/s (cst)



WASTE TREATMENT

Pumping Out settled Sludge, Dosing Neutralizing Liquids, Filteration, Pumping Out Settled Sludge. Pumping Polluted, Corrosive Waste Water Containing sand, Mud Or Solids In Suspension. Effluent Treatment Plant.



INDUSTRY

Transfer of clean or dirty, neutral, acid or alkali Liquids, Liquids containing sand, mud or suspended solids, Clean or dirty low viscosity petroleum products or solvents, milk or lime suspicion soda, washing, cooling, circulation, smoke scrubbing, emergency duty.



CIVIL ENGINEERING

De-Watering Construction Sites, basement, trenches, Food Waste in restaurants, Swimming pool filteration.



MARINE DUTY

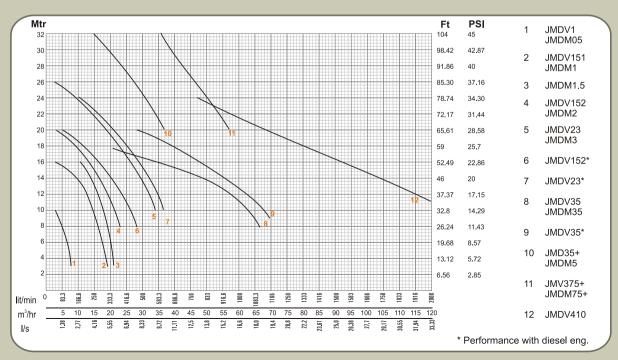
Loding or Unloading Sanitary duty. Cleaning bilges.



AGRICULTURE

Surface irrigation, Liquid manure Oxygenation, Distribution & Liquid animal feed, Portside Liquid or fertilizers

CURVE PERFORMANCE CHART



^{*} For more precise performance data reference should be made to the individual Performance curves & each pump.

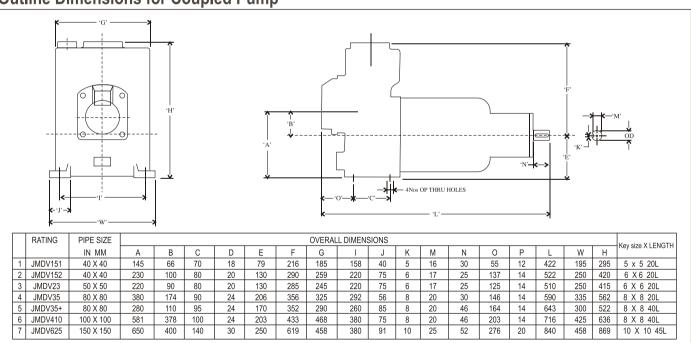
WATER RATING CHART

Monobloc & Motor Coupled

PUMP MODEL	PIPE SIZE Suc. x Del (mm)	Rating kW HI		Nominal	I SOLID HANDLING SIZE (mm)	TOTAL HEAD (in meters)																
			HP			5	8	10	12	14	16	18	20	22	24	25	26	28	30	32	34	36
						DISCHARGE LITERS PER SECOND																
JMDV1/ JMDM05	40 X 40	0.37	0.5	2850	5.0	1.9	1.3	0.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-
JMDV151/ JMDM1	40 X 40	0.75	1.00	2850	7.5	5.2	4.4	3.9	3.5	2.5	0.8	-	-	-	-		-	-		-	-	-
JMDM1.5	40 X 40	1.1	1.5	2850	8.0	5.6	5.2	4.8	4.5	3.9	2.9	-	-	-	-	-	-	-	-	-		-
JMDV152/JMDM2	40 X 40	1.50	2.00	2850	8.5		6.6	6.2	5.4	4.8	3.9	2.7	1.1	-	-			-			-	- 1
JMDV23/JMDM3	50 x 50	2.20	3.00	2850	10.5		-	9.4	8.9	7.9	7.2	6.3	5.0	3.9	2.4	1.6	0.7	-			-	-
JMDV152*	40 X 40	3.3	4.5	3000	8.5		7.8	6.9	6.5	5.1	3.6	1.6	1.2	-	-			-			-	-
JMDV23*	50 X 50	3.3	4.5	3000	10.5		-	9.9	9.6	9.0	8.1	7.2	5.8	4.3	2.6	2.1		-				-
JMDV35/JMDM35	80 X 80	3.7	5.0	1450	15	-	18.5	17.8	16.4	13.5	9.3	4.7	-	-	-	-	-	-	-	-	-	-
JMDV35*	80 X 80	4.0	6.0	1500	15		19.7	18.7	17.3	15.3	12.0	7.8	2.8	-	-	-	-	-	-		-	-
JMDV35+/JMDM5+	80 X 80	3.7	5.0	2850	7.0	-	-	-	-	-	-	-	9.8	9.0	8.1	7.5	7.2	6.4	5.6	4.8	3.6	2.0
JMDM375+/JMDM75+	80 X 80	5.5	7.5	2850	14.5	-	-	-	-	-	-	-	15.6	15.2	14.2	13.9	13.2	11.8	10.0	7.7	5.0	3.1
JMDV410	100 X 100	7.5	10.0	1450	18.5			34.5	32.9	31.3	27.6	24.2	21.3	17.3	12.9	10.0	6.8	-				-
JMDV412	100 X 100	9.30	12.5	1450	23.0	-	-	42.3	39.0	35.7	34.3	39.5	26.2	22.8	18.6	16.2	13.4	5.7	-		-	-
JMDV620	150 X 150	15.0	20.0	1450	34.0	-	-	66.1	63.1	59.4	54.8	48.8	42.2	34.1	23.7	-		-	-	-	-	
JMDV625	150 X 150	18.7	25.0	1450	40.0	-	-	74.0	71.8	67.9	63.8	58.3	51.7	44.8	33.7	27.3	19.7					

[•] Performance are at 2900/1450 RPM, 50/60 Hz and tested with Clear Water. Detail's are subject to change without prior Notice.

Outline Dimensions for Coupled Pump





* Performance w