SELF-PRIMING CENTRIFUGAL DEWATERING PUMP

DEWATERING MONOBLOCK PUMP

DEWATERING COUPLED PUMP

Crompton Greaves Self Priming Centrifugal Dewatering Pumps are designed and manufactured for optimum efficiency to cater different needs of water handling. The pump construction is suitable for handling muddy water, contaminated water with solids up to 15.5 mm.

SALIENT FEATURES :

- Self Priming Pump- priming required during installation only.
- Self Priming upto 8.0 metres at mean sea level.
- Compact Coupled / Monoset construction.
- Sealing - Mechanical Seal/Asbestos gland packing.
- Totally enclosed fan cooled Motor suitable for wide voltage.
- Non clog type semi open impeller for handling solid and mixture handling upto 15.5 mm.
- Stainless steel / Carbon steel shaft and wear plate.
- Cast Iron/Bronze Impeller for trouble free operation.
- Available in flameproof motor also.
- Easy maintenance with interchangeable parts.
- For chemical and marine application specially designed pumps can be offered

MATERIAL OF CONSTRUCTION :

- Standard Supply

Impeller	: C. I. Semi open type
Delivery Casing	: C. I.
Wear Plate	: C. I.
Shaft	: Carbon Steel

- Optional Supply

Impeller	: S. S. 304
Wear Plate	: S. S. 304
Shaft	: S. S. 410

APPLICATIONS :

- Industrial : Effluent Treatment Plants. Transfer of Petroleum Products, Chemicals, Ash Water in Thermal Power Plants. Handling Waste liquid in Tiles & Marble Factories.
- Domestic : Civil Construction Site, Swimming Pool Filteration. Dewatering basements and trenches.
- Marine : Pumping water from docks, ports, vessels
- Agriculture : Dewatering.

Standard Specifications

- **Range :** 0.75-18.7 kW (1.0-25.0 HP).
- **Supply :** 225Volts, 50Hz, 1 Phase AC 415Volts, 50Hz, 3 Phase AC
- **Pipe Size :** 40X40mm-150x150mm
- **Speed :** 1500/3000 rpm
- **Total Head :** Upto 36 metres.
- **Capacity :** Upto 4310 LPM.
- Solid handling capacity upto 40mm
- **Rotation :** Clockwise as viewed from Motor End
- **Operating Temperature :** Suitable upto 65°C
- **Motor :** TEFC, SCR, 2/4 pole (3000 / 1500 RPM Syn. Speed) Electric motor suitable for 415 Volts 3 Phase or 225 Volts 1 Phase, 50 Hz,AC supply with class 'B' insulation, IP54 protection for ambient temperature upto 40°C.

PERFORMANCE CHART

RATING	PIPE SIZE (mm)	kW (HP)	Total Head In Metres																							
			6	9	12	13.5	15	16.5	18	19.5	20	21	24	25.5	26	27.5	28	29.5	30	31.5	32	33.5	34	35.5	36
			Discharge In LPM																							
DWCJ12	40X40	0.75 (1.0)	270	230	170	130	60																			
DWCJ22	40X40	1.5 (2.0)		375	320	290	260	220	175	120	80															
DWCM32	50X50	2.2 (3.0)		575	530	500	470	440	400	350	330	290	160	80	50											
DWCQ5	80X80	3.7 (5.0)		1125	990	875	750	600	380																	
DWCQ52	80X80	5.0 (3.7)									575	555	480	445	430	405	390	355	340	305	295	235	220	150	125	
DWCQ7.52	80X80	5.5 (7.5)									925	910	865	830	810	740	715	625	600	500	460	340	305	220	190	
DWCS10	100X100	7.5 (10.0)			1960	1860	1730	1610	1465	1330	1280	1165	775	490	402											
DWCS12.5	100X100	9.3 (12.3)			2340	2255	2060	1880	1770	1630	1570	1475	1115	900	805	480	340									
DWCV20	150 X 150	15.0 (20.0)			3790	3630	3440	3210	2930	2640	2530	2310	1420													
DWCV25	150 X 150	18.7 (25.0)			4310	4110	3955	3750	3500	3240	3100	2910	2020	1560	1180											

PERFORMANCE CHART - DEWATERING COUPLED PUMP

RATING	PIPE SIZE (mm)	kW (HP)	Total Head In Metres												
			6	9	12	13.5	15	16.5	18	19.5	20	21	24	25.5	26
			Discharge In LPM												
DWJ12	40 X 40	0.75 (1.0)	270	230	170	130	60								
DWJ22	40 X 40	1.5 (2.0)		375	320	290	260	220	175	120	80				
DWM32	50 X 50	2.2 (3.0)		575	530	500	470	440	400	350	330	290	160	80	50
DWQ5	80 X 80	3.7 (5.0)		1125	990	875	750	600	380						

PERFORMANCE CHART - DEWATERING MONOBLOC PUMP

RATING	PIPE SIZE (mm)	kW (HP)	Total Head In Metres																		
			9	10.5	12	13.5	15	16.5	18	19.5	21	22.5	24	25.5	27	28.5	30	31.5	33	34.5	36
			Discharge In LPM																		
DWMJ12(1PH) DWMJ12	40 X 40	0.75 (1.0)		295	260	210	145														
DWMJ22	40 X 40	1.5 (2.0)			410	355	310	255	210	145											
DWMM32	50 X 50	2.2 (3.0)			560	535	510	470	425	370	305	235	155	80							
DWMQ5	80 X 80	3.7 (5.0)	1125	1060	985	900	800	685	550	400											
DWMQ52	80 X 80	5.0 (3.7)									550	515	480	450	415	380	340	305	260	205	125
DWMQ7.52	80 X 80	5.5 (7.5)									910	890	865	820	760	685	600	520	425	325	190

SOLID HANDLING CAPACITY

RATING	PIPE SIZE (mm)	kW(HP)	SOLID HANDLING SIZE (mm)
DWCJ12/DWJ12/DWJ12(1ph)/DWJ12F	40 X 40	0.75(1.0)	7.0
DWCJ22/DWJ22/DWMJ22	40 X 40	1.5(2.0)	8.5
DWCM32/DWM32/DWMM32	50 X 50	2.2(3.0)	10.5
DWCQ5/DWQ5/DWMQ52	80 X 80	3.7(5.0)	15.5
DWCQ52/DWMQ52	80 X 80	5.0(3.7)	7.0
DWCQ7.52/DWMQ7.52	80 X 80	5.5(7.5)	14.5
DWCS10	100 X 100	7.5(10.0)	18.5
DWCS12.5	100 X 100	9.3(12.0)	23.0
DWCV20	150 X 150	15.0(20.0)	34.0
DWCV25	150 X 150	18.7(25.0)	40.0