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SELF-PRIMING NON-CLOG CENTRIFUGAL DEWATERING PUMP



DEWATERING MONOBLOC PUMP



DEWATERING COUPLED PUMP

SELF PRIMING NON CLOG DEWATERING PUMPS

Features

- Self Priming Pump - Priming required during installation only
- Self Priming up to 8.0 meters at mean sea level for DW series & up to 6.0 meters for PS series
- Construction: Bare pump/ Monoset/ Motor coupled/ Engine coupled
- Shaft Sealing: Gland packing / Mechanical seal
- Totally Enclosed Fan Cooled motor suitable for wide voltage
- Non-clog type impeller suitable to handle liquid with solid particles & mixtures
- Easy maintenance with interchangeable parts

Applications

Industrial

- Effluent Treatment Plants
- Transfer of Petroleum products, Chemicals, Treated / Raw water
- Ash water in Thermal Power Plants
- Waste liquid in Tiles & Marble factories

Domestic

- Civil construction sites
- Swimming pool filtration
- Dewatering of basement water & trenches

Marine

- Pumping water from docks, ports, vessels

Agriculture

- Dewatering

Standard Specifications

- Power Range : 0.75 to 18.7KW (1.0 to 25 HP)
- Supply : 225Volts, 1 phase, 50 Hz AC supply
: 415Volts, 3 phase, 50 Hz AC supply
- Suc. X Del. Size : ϕ 40 x 40 mm to ϕ 150 x 150 mm
- Speed : 1500 / 3000 RPM
- Total Head : Up to 36 meters
- Capacity : Up to 4310 LPM
- Solid Handling Capacity : Up to 40 mm
- Operating Temperature : Up to 65 C
- Motor- Degree of Protection : IP 54
- Motor Class of Insulation : 'B' class

Material of Construction for Dewatering Pumps DW Series

S. No.	PART	MATERIAL
1	Impeller (Semi open type)	Graded Cast Iron
2	Delivery Casing	Graded Cast Iron
3	Wear Plate	Graded Cast Iron
4	Shaft	Carbon Steel
5	Shaft Sleeve	SS 410

Material of Construction for Self Priming Monoset Pumps PS Series

S. No.	PART	MATERIAL
1	Impeller (Non-Clog type)	Bronze
2	Casing	Graded Cast Iron
3	Wear plate	Stainless Steel
4	Delivery Bend	Graded Cast Iron
5	Shaft	Carbon Steel
6	Shaft Sealing	Mechanical seal fitted
7	Integrated Non Return Valve	Nitrile Rubber with M.S. plate
8	Bracket	Graded Cast Iron
9	Base Frame	M.S. Fabricated

SELF PRIMING NON CLOG DEWATERING PUMPS

PERFORMANCE CHART - DEWATERING BARE SHAFT PUMP

RATING	Suc. X Del. Size (mm)	KW	HP	RPM	Solid Handling size (mm)	TOTAL HEAD IN METERS														
						6	9	12	13.5	15	16.5	18	19.5	20	21	24	25.5	26	27.5	28
						DISCHARGE IN LPM														
DWCJ 12	40 X 40	0.75	1.0	2820	7.0	270	230	170	130	60										
DWCJ 22	40 X 40	1.5	2.0	2830	8.5		375	320	290	260	220	175	120	80						
DWCM32	50 X 50	2.2	3.0	2830	10.5		575	530	500	470	440	400	350	330	290	160	80	50		
DWCQ5	80 X 80	3.7	5.0	1430	15.5		1125	990	875	750	600	380								
DWCS10	100 X 100	7.5	10.0	1455	18.5			1960	1860	1730	1610	1465	1330	1280	1165	775	490	402		
DWCS12.5	100 X 100	9.3	12.5	1460	23.0			2340	2255	2060	1880	1770	1630	1570	1475	1115	900	805	480	340
DWCV20	150 X 150	15	20.0	1460	34.0			3790	3630	3440	3210	2930	2640	2530	2310	1420				
DWCV25	150 X 150	18.7	25.0	1475	40.0			4310	4110	3955	3750	3500	3240	3100	2910	2020	1560	1180		

RATING	Suc. X Del. Size (mm)	KW	HP	RPM	Solid Handling size (mm)	TOTAL HEAD IN METERS														
						20	21	24	25.5	26	27.5	28	29.5	30	31.5	32	33.5	34	35.5	36
						DISCHARGE IN LPM														
DWCQ52	80 X 80	3.7	5.0	2840	7.0	575	555	480	445	430	405	390	355	340	305	295	235	220	150	125
DWCQ7.52	80 X 80	5.5	7.5	2865	14.5	925	910	865	830	810	740	715	625	600	500	460	340	305	220	190

PERFORMANCE CHART - DEWATERING MONOBLOC PUMP

RATING	Suc. X Del. Size (mm)	KW	HP	RPM	Solid Handling size (mm)	TOTAL HEAD IN METERS														
						9	10.5	12	13.5	15	16.5	18	19.5	21	22.5	24	25.5			
						DISCHARGE IN LPM														
DWMJ12	40 X 40	0.75	1.0	2820	7.0			295	260	210	145									
DWMJ 22	40 X 40	1.5	2.0	2830	8.5				410	355	310	255	210	145						
DWMM32	50 X 50	2.2	3.0	2830	10.5				560	535	510	470	425	370	305	235	155	80		
DWMQ5	80 X 80	3.7	5.0	1430	15.5	1125	1060	985	900	800	685	550	400							

RATING	Suc. X Del. Size (mm)	KW	HP	RPM	Solid Handling size (mm)	TOTAL HEAD IN METERS														
						21	22.5	24	25.5	27	28.5	30	31.5	33	34.5	36				
						DISCHARGE IN LPM														
DWMQ52	80 X 80	3.7	5.0	2840	7.0	550	515	480	450	415	380	340	305	260	205	125				
DWMQ7.52	80 X 80	5.5	7.5	2865	14.5	910	890	865	820	760	685	600	520	425	325	190				

Note:
Performance figure provided above are approximate for water at ambient temperature, may vary with liquid & site conditions. Pipe sizes mentioned in mm are nearest conversion of inches but actual pipe threadings are provided as per 'BSP' Standards.

SELF PRIMING NON CLOG DEWATERING PUMPS

PERFORMANCE CHART - DEWATERING COUPLED PUMP

RATING	Suc. X Del. Size (mm)	KW	HP	RPM	Solid Handling size (mm)	TOTAL HEAD IN METERS														
						6	9	12	13.5	15	16.5	18	19.5	20	21	24	25.5	26	27.5	28
						DISCHARGE IN LPM														
DWJ 12	40 X 40	0.75	1.0	2820	7.0	270	230	170	130	60										
DWJ 22	40 X 40	1.5	2.0	2830	8.5		375	320	290	260	220	175	120	80						
DWM32	50 X 50	2.2	3.0	2830	10.5		575	530	500	470	440	400	350	330	290	160	80	50		
DWQ5	80 X 80	3.7	5.0	1430	15.5		1125	990	875	750	600	380								
DWS10	100 X 100	7.5	10.0	1455	18.5			1960	1860	1730	1610	1465	1330	1280	1165	775	490	402		
DWS12.5	100 X 100	9.3	12.5	1460	23.0			2340	2255	2060	1880	1770	1630	1570	1475	1115	900	805	480	340
DWV20	150 X 150	15	20.0	1460	34.0			3790	3630	3440	3210	2930	2640	2530	2310	1420				
DWV25	150 X 150	18.7	25.0	1475	40.0			4310	4110	3955	3750	3500	3240	3100	2910	2020	1560	1180		

RATING	Suc. X Del. Size (mm)	KW	HP	RPM	Solid Handling size (mm)	TOTAL HEAD IN METERS														
						20	21	24	25.5	26	27.5	28	29.5	30	31.5	32	33.5	34	35.5	36
						DISCHARGE IN LPM														
DWQ52	80 X 80	3.7	5.0	2840	7.0	575	555	480	445	430	405	390	355	340	305	295	235	220	150	125
DWQ7.52	80 X 80	5.5	7.5	2865	14.5	925	910	865	830	810	740	715	625	600	500	460	340	305	220	190

PERFORMANCE CHART - SELF PRIMING CENTRIFUGAL MONOSET PUMPS - PS SERIES

RATING	Suc. X Del. Size (mm)	KW	HP	RPM	Solid Handling size (mm)	TOTAL HEAD IN METERS				
						8	10	12	14	16
						DISCHARGE IN LPM				
PS 12	40 X 40	0.75	1	2870	8	240	215	175	130	80

Note:

Performance figure provided above are approximate for water at ambient temperature, may vary with liquid & site conditions. Pipe sizes mentioned in mm are nearest conversion of inches but actual pipe threadings are provided as per 'BSP' Standards.



PS Series Pump