

## CENTRIFUGAL MONOSET PUMPS MB Series



Crompton Greaves Centrifugal Monoset Pumps - MB Series are designed and manufactured for optimum efficiency to cater to different needs of water handling. The pump range is suitable for a wide range of applications in Agricultural, Domestic, Commercial and Industrial areas.

### Features

- Monoset construction.
- Wide range to suit a variety of requirements.

- Wide voltage band and suitability for operating at low voltages.
- High efficiency, less power consumption.
- Pumps with stainless steel sleeve for less shaft wear.
- Trouble free operations with low maintenance.
- Compact size, less space.
- Robust design suitable for adverse conditions.
- Sealing - Gland packing or mechanical seal.

### Applications

- Irrigation.
- Buildings, bungalows.
- Sprinkler and drip irrigation.
- Lift irrigation.
- Construction sites.
- Hotels, dairies, hospitals.
- Gardens, small farms.
- Ornamental fountains.
- Industries.

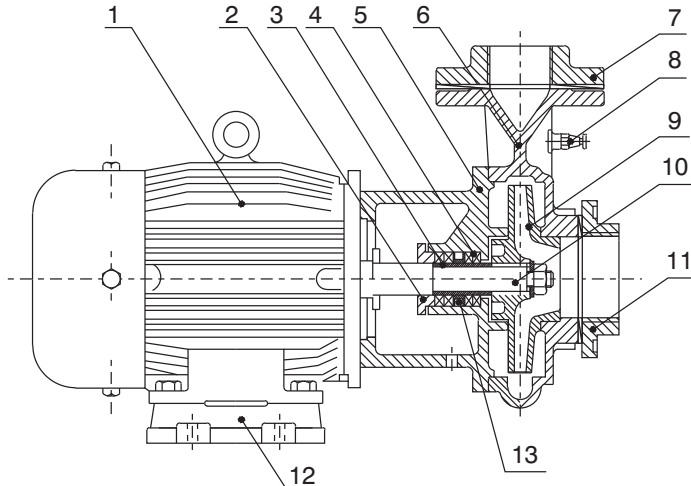
### Standard Specifications

- **Range** : 1P - 1.1 to 3.7 kW (1.5 to 5.0HP) 3P - 1.5 kW to 22.5 kW (2.0 HP to 30.0 HP).
- **Supply** : 415 V, 50Hz, 3 phase, AC
- **Pipe size** : 50 x 40 mm to 100 x 100 mm.
- **Operating Temperature** : Suitable upto 65°C water.
- **Total head** : Upto 75 metres.
- **Capacity** : Upto 2140 LPM.
- **Liquid** : Clear Water.
- **Rotation** : Clockwise as viewed from motor end.

### Electric Motor

- TEFC, SCR, 2 or 4 Pole (3000 or 1500 RPM Syn. Speed). Electric Motor for 415V, 50Hz, 3 phase, AC supply . With class 'F' Insulation and temperature rise restricted to class 'B'. Suitable for ambient temperature upto 40°C.
- Special motors with different enclosures, supply voltage, frequency and ambient can be offered on request.

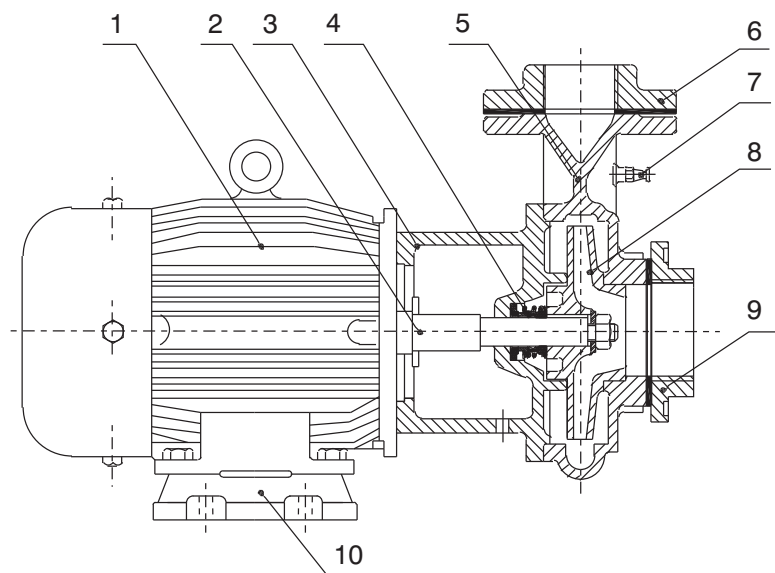
### CONSTRUCTION



Gland Packing Arrangement

No.	PART	MATERIAL
1	Motor	-
2	Gland	Graded Cast Iron
3	Sleeve	Stainless Steel (AISI 410)
4	Gland Packing Set	Threaded Graphite Cotton
5	Adaptor	Graded Cast Iron
6	Volute Casing	Graded Cast Iron
7	Delivery Flange	Graded Cast Iron
8	Air Cock	Brass
9	Impeller	Graded Cast Iron
10	Shaft	EN-8
11	Suction Flange	Graded Cast Iron
12	Base Plate	Graded Cast Iron
13	Lantern Ring	Nylon-6

**CONSTRUCTION**



Mechanical Seal Arrangement

No.	PART	MATERIAL
1	Motor	-
2	Shaft	EN-8
3	Adaptor	Graded Cast Iron
4	Mechanical Seal	-
5	Volute Casing	Graded Cast Iron
6	Delivery Flange	Graded Cast Iron
7	Air Cock	Brass
8	Impeller	Graded Cast Iron
9	Suction Flange	Graded Cast Iron
10	Base Plate	Graded Cast Iron

**PERFORMANCE CHART**

Rating	Pipe Size Suc.x Del. (mm)	MOTOR kW (HP)	TOTAL HEAD IN METRES																	
			6	7.5	9	10.5	12	13.5	15	16.5	18	19.5	21	24	25.5	27	30	33	36	
			DISCHARGE IN LPM																	
MBK1.52C(1PH)@	50 x 40	1.1(1.5)			410	360	310	250	150											
MBKH1.52C(1PH)@	50 x 40	1.1(1.5)						360	300	230	100									
MBKS1.52(1PH)	50 x 40	1.1(1.5)							175	170	160	150	140	130	115	100	80	50		
MBM1.52(1PH)	50 x 50	1.1(1.5)			430	395	355	310	250	160										
MBK22(1PH)	50 x 40	1.5(2.0)				410	395	375	355	335	310	285	250	200						
MBK22@	50 x 40	1.5(2.0)				430	405	375	335	280	200									
MBKH22	50 x 40	1.5(2.0)									190	180	170	145	130	110				
MBN22	65 x 50	1.5(2.0)						500	470	430	390	350	275							
MBK32 *@	50 x 40	2.2(3.0)							450	440	425	405	375	285	225	150				
MBKS32 *	50 x 40	2.2(3.0)												250	240	230	205	170	110	
MBNL32 *@	65 x 50	2.2(3.0)					725	650	580	500	410	300								
MBN32*@/MEN32A	65 x 50	2.2(3.0)							525	490	450	415	375	275	165					
MBP32 *	80 x 65	2.2(3.0)	1100	1070	990	900	800	670	470											
MBQ32 *	80 x 80	2.2(3.0)	1130	1080	1020	920	810	700	500											
MBNH52 *@	65 x 50	3.7(5.0)							825	785	755	710	665	545	480	410	250			
MBP52*@/MEP52A	80 x 65	3.7(5.0)							850	820	775	700	620	450						
MBQ52	80 x 80	3.7(5.0)	1500	1450	1390	1330	1275	1200	1140	1070	980	880	700							
MBS52 *	100 x 100	3.7(5.0)	1850	1780	1700	1600	1460	1300	1040											
MBP7.52@	80 x 65	5.5(7.5)											1080	970	900	825	650			
MBS7.52	100 x 100	5.5(7.5)					1680	1610	1540	1460	1370	1280	1170	840						
MBR10.2@	100 x 80	7.5(10.0)												1400	1310	1200	980	700		
MBS10.2	100 x 100	7.5(10.0)							1850		1740		1600	1450		1250	900			
MBR12.52	100 x 80	9.3(12.5)												1750	1610	1530	1460	1270	1000	
MBS12.52	100 x 100	9.3(12.5)											2030	1900	1770		1600	1320	750	
MBS15.2	100 x 100	11.0(15.0)											2140	2040	1930		1820	1660	1445	1150
MBN3	2.2 (3.0)	65 x 50			750	685	615	535	400											
MBNH3	2.2 (3.0)	65 x 50					575	535	480	410	325	200								
MBP5/ OMBP5	3.7 (5.0)	80 x 65			1270	1210	1135	1030	880	660										
OMBR5@	3.7 (5.0)	100 x 80	1900	1800	1600	1300	1000	600												
OMBS5@	3.7 (5.0)	100 x 100		1900	1700	1450	1150	600												
OMBR7.5@	5.5 (7.5)	100 x 80					1750	1640	1470	1190	700									
OMBS7.5	5.5 (7.5)	100 x 100			2050	2040	1980	1850	1600											

**PERFORMANCE CHART (CONTD.)**

Rating	Pipe Size Suc.x Del. (mm)	MOTOR kW (HP)	TOTAL HEAD IN METRES																							
			21	24	25.5	27	30	33	36	37.5	39	42	45	48	51	54	57	60	63	66	68	69	72	75		
			DISCHARGE IN LPM																							
MBK52 *@	50 x 40	3.7(5.0)		455	435	415	375	330	280	245	200															
MBKS52 *	50 x 40	3.7(5.0)							260	250	240	215	190	160	120											
MBNS52 *@	65 x 50	3.7(5.0)						400	345	315	280	200														
MBK7.52	50 x 40	5.5(7.5)						450	420	410	395	365	335	300	260	200										
MBN7.52@	65 x 50	5.5(7.5)		780	760	725	650	550	400	320																
MBNH10.2	65 x 50	7.5(10.0)											550	520	480	430	370	300								
MBP10.2@	80 x 65	7.5(10.0)		1150	1115	1075	980	880	750	665	550															
MBPH10.2	80 x 65	7.5(10.0)		1150		1100	1020	920	800		640	400														
MBP12.52	80 x 65	9.3(12.5)	1250	1245		1240	1220	1170	1110		1010	870	670													
MBN15.2	65 x 50	11.0(15.0)													550	530	510	485	460	435		400	360	310		
MBP15.2@	80 x 65	11.0(15.0)		1480	1450	1420	1360	1290	1220	1180	1140	1050	950	840	700											
MBPH15.2	80 x 65	11.0(15.0)					1240	1230	1205		1165	1090	1010	920	770	500										
MBR15.2@	100 x 80	11.0(15.0)		1875	1815	1750	1615	1460	1235	1125	1000															
MBR20.2D@	100 x 80	15.0(20.0)					2000	1900	1770	1690	1600	1400	1100													
MBRH20.2D	100 x 80	15.0(20.0)					2000	1900	1780		1650	1500	1350	1170												
MBPH20.2D	80 x 65	15.0(20.0)													1200	1130	1040	900	500							
MBR25.2	100 x 80	18.5(25.0)												1500	1400	1260	1080	800								
MBR30.2	100 x 80	22.0(30.0)												1700	1640	1560	1460	1310	1140	900	640	400				

Notes :-

- The above performance is based on rated voltage (220+6%-15% for 1 Phase, 415+6%-15% for 3 Phase) and rated frequency (50Hz±3%).
- The above performance is subjected to tolerances as per relevant Indian Standards.
- Pipe sizes mentioned in mm are nearest conversion of inches, but actual pipe threading are provided as per 'BSP' Standard.
- Total Head = Static Suction + Static Delivery + Losses in pipes, bends etc.
- Ratings with suffix 'D' are with Motor in Drip-proof enclosures.
- \* Marked ratings are also available in 1 Phase.
- @ Marked ratings are having ISI certification.