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# CENTRIFUGAL MONOSET PUMPS MI Series



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Crompton Greaves Centrifugal Monoset Pumps-MI 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 Commercial and Industrial areas.



### Features :

- Monoset construction.
- Wide range to suit a variety of requirements.
- High efficiency, less power consumption.
- Pumps with stainless steel sleeve for less shaft water.
- Trouble free operations with low maintenance.
- Compact size, less space.
- Robust design suitable for adverse conditions.
- Sealing-Gland packing or Mechanical seal

### Applications :

- Water circulation in Cooling Towers
- Office & Shopping Cooling Systems
- Construction sites.
- Hotels, dairies, hospitals.
- Industries.

### Standard Specifications :

- Range: 1.5kW to 22kW (2.0HP to 30.0HP).
- Supply: 415V  $\pm$  10%, 50Hz, 3phase
- Pipe size: 50x40 mm to 100x100 mm.
- Liquid Temperature: Suitable upto 90°C water.

- Total head: Upto 69 metres.
- Capacity: Upto 2140 LPM.
- Liquid: Clear Water.
- Rotation: Clockwise as viewed from motor end.

### Electric Motor :

- TEFC, SCR, 2Pole (3000RPM Syn.Speed). Electric Motor for 415V  $\pm$  10%, 50Hz, 3phase, AC supply. With class 'F' Insulation and temperature rise restricted to class 'B' with IP55 Protection
- Special motors with different enclosures, supply voltage, frequency and ambient temperature can be offered on request.

### Material of Construction

	Impeller	Volute	Shaft	Mechanical Seal	Gland Packing
A	Bronze	CI (Inside Epoxy Coated)	40C8	x	Graphited Cotton
B	CI	CI (Inside Epoxy Coated)	SS	Carbon / Ceramic	x
C	Bronze	CI (Inside Epoxy Coated)	SS	Carbon / Ceramic	x
D	SS	CI (Inside Epoxy Coated)	SS	Carbon / Ceramic	x

Bronze Impeller



Mechanical Seal



Stainless Steel Impeller



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## Single Stage Pumps

Rating	Motor		Pipe Size Suc.xDel. (mm)	Total Head In Metres																							
	HP	kW		6	9	12	15	18	21	24	27	30	33	36	39	42	45	48	51	54	57	60	63	66	68	69	
	Discharge In LPM																										
MIK22	A/B/C/D	2.0	1.5	50 x 40			405	335	200																		
MIK32	A/B/C/D	3.0	2.2	50 x 40				450	425	375	285	150															
MIKS32	A/B/C/D	3.0	2.2	50 x 40							250	230	205	170	110												
MIN32	A/B/C/D	3.0	2.2	65 x 50				525	450	375	275																
MIK52	A/B/C/D	5.0	3.7	50 x 40							455	415	375	330	280	200											
MIKS52	A/B/C/D	5.0	3.7	50 x 40											260	240	215	190	160	120							
MINH52	A/B/C/D	5.0	3.7	65 x 50				825	755	665	545	410	250														
MIP52	A/B/C/D	5.0	3.7	80 x 65				850	775	620	450																
MIQ52	A/B/C/D	5.0	3.7	80 x 80	1500	1390	1275	1140	980	700																	
MIS52	A/B/C/D	5.0	3.7	100 x 100	1850	1700	1460	1040																			
MIK7.52	A/B/C/D	7.5	5.5	50 x 40											450	420	395	365	335	300	260	200					
MIN7.52	A/B/C/D	7.5	5.5	65 x 50							780	725	650	550	400												
MIP 7.52	A/B/C/D	7.5	5.5	80 x 65						1080	970	825															
MIS 7.52	A/B/C/D	7.5	5.5	100 x 100			1680	1540	1370	1170	840																
MINH 10.2	A/B/C/D	10.0	7.5	65 x 50													550	520	480	430	370	300					
MIP 10.2	A/B/C/D	10.0	7.5	80 x 65						1150	1075	980	880	750	550												
MIS 10.2	A/B/C/D	10.0	7.5	100 x 100				1850	1740	1600	1450	900															
MIS12.52	A/B/C/D	12.5	9.3	100 x 100					2030	1900	1770	1600	1320	750													
MIP 15.2	A/B/C/D	15.0	11	80 x 65						1480	1420	1360	1290	1220	1140	1050	950	840	700								
MIPH15.2	A/B/C/D	15.0	11	100 x 80								1240	1230	1205	1165	1090	1010	920	770	500							
MIR 15.2	A/B/C/D	15.0	11	100 x 80						1875	1750	1615	1460	1235	1000												
MIS15.2	A/B/C/D	15.0	11	100 x 100					2140	2040	1930	1820	1660	1445	1150												
MIR20.2	A/B/C/D*	20.0	15	100 x 80								2000	1900	1770	1600	1400	1100										
MIRH20.2	A/B/C/D*	20.0	15	100 x 80								2000	1900	1780	1650	1500	1350	1170									
MIR25.2	A/B/C/D	25.0	18.5	100 x 80													1500	1400	1260	1080	800						
MIR30.2	A/B/C/D	30.0	22	100 x 80													1700	1640	1560	1460	1310	1140	900	640	400		

**KEY:**

- 1) MI stands for MONOBLOC INDUSTRIAL Series
- 2) ALL MOTORS ARE IP55, CLASS F, SUBJECT TO TEMPERATURE RISE OF CLASS B, AMBIENT 45°C
- 3) A = BRONZE IMPELLER + GLAND PACK + EN8 SHAFT
- 4) B = CAST IRON IMPELLER + MECHANICAL SEAL + STAINLESS STEEL SHAFT
- 5) C = BRONZE IMPELLER + MECHANICAL SEAL + STAINLESS STEEL SHAFT
- 6) D = STAINLESS STEEL IMPELLER + MECHANICAL SEAL + STAINLESS STEEL SHAFT
- 7) Third letter of P/Set Ref. indicates Pipe Size ie Suction x Delivery in mm, K = 50x40, N = 65x50 P = 80x65, Q = 80x80, R = 100x80, S = 100x100
- 8) First numeral in the rating reference denotes the HP of motor and second numeral denotes the polarity.



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