



*Water
round the clock*

CG PUMPS

PRODUCT CATALOGUE



**Crompton
Greaves**

EVERYDAY SOLUTIONS



Crompton Greaves, established as a Company in 1937, has become synonymous with electricity in India. It is India's largest private sector enterprise in the business of electrical engineering. It is a member of a leading Business House, the BM Thapar Group.

The company is extensively engaged in engineering, manufacturing, marketing and turnkey project operations and has a leadership position in most of its Lines of Business. Crompton Greaves strength emanates from its dedicated R&D, commitment to responsible business through technology, productivity, quality and a customer-centric focus. It offers one of the widest spectrum of products, systems and services to fulfil every need through four business groups viz.

- **Power Systems**
 - Transformers, Switchgear
 - Power Quality
 - Engineering projects
- **Industrial Systems**
 - Motors & Alternators
 - Railway Transportation and Signalling Products
- **Consumer Products**
 - Fans & Geysers
 - Luminaires & Light Sources
 - Pumps
- **Digital Products**
 - Telecom Products & Solutions



AN OVERVIEW - PUMPS :

Crompton Greaves Ltd., started manufacturing pumps in 1964 at worli. It was shifted to Ahmednagar later in 2000-2001. Today CG Pumps manufacture all types of pumps suitable for handling clear cold water, for Domestic Agricultural, and Industrial Segment. In the last 20 years, the CG Pumps has undergone a dramatic transformation in the areas of product range and capacities.

The driving strengths of the CG Pumps are thrust on Quality, new product development and customer focus, which has led the CG Pumps to enjoy the status of market leadership in India.

Today CG Pumps is offering widest product range under one roof, which differentiates it from its competitors.

QUALITY STANDARDS

'Crompton' pumps are manufactured in accordance with and conforming to relevant B.I.S. standards. The products are designed to suit continuously changing environment, for easy installation, low running cost, improved efficiency and minimal maintenance. Factory has modern state of art Inspection and Testing set-up. Strict quality assurance plan and rigorous testing of pumps ensures high efficiency and enhanced life of products. Modern dynamic balancing m/c, digital test panels, digital flow meters, digital pressure measuring devises, 60-cycle power generating set, automatic box strapping m/c, ensure precision and consistency in Quality. Continuous training to all employees is the thrust to improve their skill, performance and efficiency. CG Pumps is practicing Six Sigma Quality Drive to improve the Quality of the products as per International Standards.

Today CG Pumps has an Approval from various Govt. Dept. like,

- Govt. of Tripura • Rajasthan P.H.E.D. • Delhi MES, Jal Board • OLIC - Bhubaneshwar, Govt. of Orissa • Northern Railway
- Maharashtra Jeevan Pradhikaran • DGS & D.

We are regular suppliers to various Govt. bodies.

The pumpset supplied to these Govt. bodies have been approved by third party like DGS & D, S.G.S. Lloyd's etc.

Crompton Greaves Limited, is committed towards the society by giving pollution free, non-hazardous, energy efficient products.



Quality Assurance



Inspection



Computerized routine test



Type testing



Training Centre



- **Efficient Customer Service**
- **Virtually Maintenance Free**
- **Superior Technology**
- **Low Power Consumption**
- **Wide Dealer Network**



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Mini Self Priming	Mini Non Self Priming	Aqua Series	Flowmax	DMB Series	DM Series	CMB Series	Jet Pumps	2 stage Jet Pumps	Shallow Well Jet	Multistage Jet Pumps	Two Stg. TMEP	Compressor Pump	75/80/100 mm Sub. Pumps

Specifications

Application Primary Application Secondary Application

[illegible]

PUMPS APPLICATION GUIDE															
		MB Series	2 Stg. MB Series	MBG Series	Openwell Sub. Pumps	Diesel Engine Pumps	Diesel Engine	PSKR Engine Pumps	150/200/250 mm Sub. Pumps	Side Channel AOH Series	Inline Pumps	Backpullout Pumps	PS Pumps	Dewatering Pumps	Tank Compressor
Specifications	Self Priming	✗	✗	✗		✗		✗		✓	✗	✗	✓	✓	
	KW(HP)	1P - 1.1-3.7 (1.5-5.0) 3P - 1.5-22.5 (2.0-30.0)	3.7/5.5/7.5 (5.0/7.5/10.0)	1P - 0.37-1.5 (0.5-2.0) 3P - 0.75/1.1 (1.0/1.5)	1P - 0.37-2.2 (0.5-3.0) 3P - 0.5-22.5 (0.5-30.0)	2.2-7.5 (3.5-10.0)	W. C. Engine 2.6-21(3.5-28.0) A. C. Engine 2.6-15.0(3.5-20.0) 2.6/3.7(3.5/5.0) Lister Engine 4.5-9.0(6.5-12.0)	1.1-2.2 (1.5-3.0)	1.5-37.5 (2.0-50.0)	0.4-11.0 (0.55-15.0)	0.37-7.5 (0.5-10.0)	1.5-11.25 (2.0-15.0)	0.75/1.1 (1.0/1.5)	Bare Pump 0.75-18.7(1.0-25.0) Coupled Pump 1P- 0.75 (1.0) 3P- 0.75-3.7(1.0-5.0) Monobloc Pump 1P - 0.75 (1.0) 3P-0.75-5.5(1.0-7.5)	0.37-11 (0.5-15.0)
	Supply Phase / Fuel	1P/3P	3P	1P/3P	1P/3P	Diesel	Diesel	Petrol/Kerosine	3P	1P/3P	3P	3P	1P/3P	1P/3P	1P/3P
	Pipe size in mm (Suc X Del.)	50X40-100X100	50X45/65X50	25X25-80X65	25X25-100X100	65X50-100X100	---	65X65	50-150	25X25-50X50	32X32-100X100	50X0-100X100	40X40/50X50	40X40-150X150	Pressure 4.0-12 Kg/cm ²
	Head mtrs	6-75	16.5-81	6-33	6-87	5-25	---	7.5-18.0	5-252	6-115	10-30	14-46	8-18	Bare Pump 6-36 Coupled Pump 6-26 Monobloc Pump 9-36	Tank Capacity 40-500 Ltrs
	Discharge in lph/lpm	50-2140lpm	35-335lpm	13-930lpm		510-2160lpm	---	210-660lpm	35-4000lpm	400-20000lph	50-1400lpm	150-2320lpm	90-240lpm	Bare Pump 50-4310lpm Coupled Pump 50-1125lpm Monobloc Pump 80-1125lpm	
	Max. Suction Lift in mtrs	8	8	8		8		8		8	8	8	8	8	
	Refer Page No. for selection	42	48	50	53	57	57	62	Ref Borewell Sub folder	64	68	70	73	75	79
Application		Primary Application Secondary Application													
Domestic	Multistoried Buildings														
	Bungalows														
	Hotels														
	Gardening														
	Fountain														
	Fire Fighting														
Agro	Sprinkler Irrigation														
	Canalised Irrigation														
	Small Farms														
Industrial	Water Supply														
	Booster Application														
	Brine / Chilled Water / AC Plants														
	Construction														
	Car Washing / Garage														
	Boilers														
	Hot Water														
	Water Circulation														
	Effluent / Screened Sewage														
	Fire Fighting														
	Pneumatic Applications														
	Petrol Pump														

Note: These application guidelines are for reference only and can differ in some applications.

TECHNICAL DATA

TERMINOLOGY AND HEAD CALCULATIONS

- CAPACITY** (Discharge): Rate of flow of liquid measured in litres per minute or gallons per minute.
- TOTAL HEAD** : The standard unit for expressing head shall be the metres, thus the head in metres of liquid column = pressure in kg/cm² x 10.
- FRICTIONAL LOSSES** : Resistance by inner surface of pipe and fittings through which liquid is being pumped.
- CAVITATION** : The formation of cavities in a fluid, is a phenomenon involving the appearance and subsequent sudden collapse of vapour bubbles in a flow of fluid.
- SUCTION LIFT (HS)** : Is the vertical distance between pump center line and water level.
- DELIVERY HEAD(HD)** : Vertical Distance above the pump centreline to the top most point of the delivery.
- N.P.S.H.** : Net Positive Suction Head. It is the pressure in terms of absolute head in meters or feet at a pump suction branch minus vapour pressure of the liquid at its working temperature. It can be simply taken as entry loss at the impeller eye in the case of centrifugal pump.
- VAPOUR PRESSURE** : Can be defined as that pressure which is just necessary to keep a liquid from boiling at a particular given temperature.
- DUTY POINT** : The pump is designed for one point where the maximum pump Eff. / overall Eff is achieved. This point is called Duty Point or operating Point.
- PUMP EFF.** : The ratio of the pump output to the pump input
Thus Pump eff. = $\frac{(T. \text{ Head} \times \text{ Discharge}) \text{ in kW}}{\text{Motor Out put in kW}} \times 100$
- OVERALL EFF.** : The ratio of the pump output to the motor input
Thus Overall Eff. = $\frac{\text{Pump Efficiency} \times \text{Motor Efficiency}}{\text{Pump Output} \times \text{Motor Output} = \frac{\text{Pump Output}}{\text{Motor Input}}}$
- SPECIFIC GRAVITY**: Ratio of wt of given volume of fluid compared to same wt of equal volume of water at std temp & pressure. Specific Gravity of Water is 1.0. If fluid has Specific gravity other than water (1.0) multiply brake horsepower for water by specific gravity of fluid to obtain horsepower required.
- VISCOSITY** : Property of Internal Friction of a fluid or resistance to motion of its particles. Measuring a fluid's resistance to flow will give coefficient of viscosity. High viscosity fluids are resistant to flow and appear thick and sluggish. Viscosity is independent of specific gravity and increases with increase in temperature. Viscous fluids tend to reduce the capacity, head and efficiency while increasing the brake horsepower required. Centrifugal Pumps may be used for viscosities upto 1000 1500 SSU. Above this limit Rotary Pumps are used.

CALCULATION OF TOTAL HEAD

Total Head H of the Pumpset is given by :

(Ref. Sketch)

$$H = HS^* + Hd + hfs^* + hfd + HLf + \frac{Vd^2}{2g}$$

* In case of submersible pumpset HS & hfs = 0

Where HS = Static suction lift, the difference in level between the center line of pump and the water level in the sump in feet or metres.

Hd = Static Delivery head, the difference in level between the centre line of the pump and the highest point in the delivery line in feet or metres.

hfs = Friction losses in suction pipe line in feet or metres.

hfd = Friction losses in delivery pipe line in feet or metres.

HLf = Total friction losses due to pipe fittings in suction and delivery pipeline in feet or meters, e.g. strainer with foot valve, bends, valves, etc.

$Vd^2/2g$ = Velocity head of water in the delivery pipe in feet or meters.

Where Vd = Velocity of water in delivery pipe = $\frac{\text{Discharge}}{\text{Area of pipe in ft}^2 \text{ or m}^2 \text{ / sec}}$

g = Acceleration due to gravity = 9.81 m/sec²
= 32.2 ft/sec²

To calculate the above parameters, the following details are required.

- Required discharge in LPM or GPM.
- Size and length of the suction & delivery pipes.
- Size, type and number of pipe fittings on suction and delivery sides.
- Variation in water level on suction side.

In working out the above, care has to be taken to see that constant units are used.

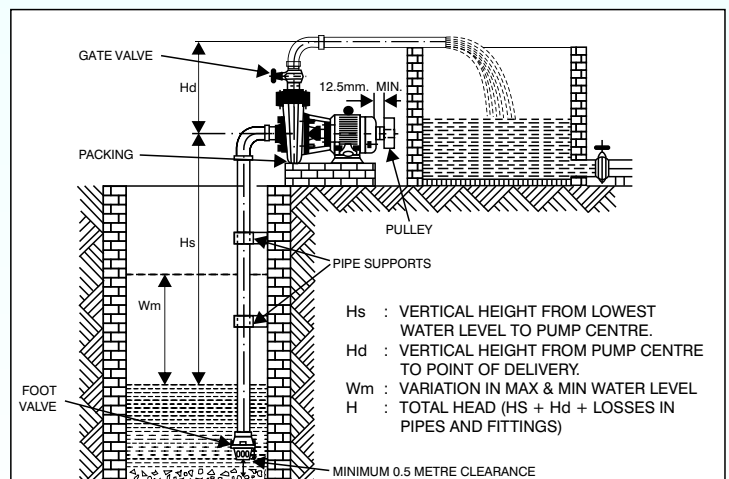


TABLE II

Length of straight pipe in meters giving equivalent resistance of flow in valves and fittings.

Size of pipe in mm	90° Elbow (Std)	90° Medium Elbow	90° long Elbow	45° Elbow	TEE	Return Bend	Gate Valve	Globe Valve	Angle Valve	Foot Valve or Check Valve (NRV)
13	0.46	0.43	0.34	0.24	1.04	1.16	0.107	4.90	2.56	1.01
20	0.61	0.55	0.43	0.31	1.37	1.53	0.143	6.70	3.66	1.53
25	0.82	0.70	0.52	0.40	1.77	1.86	0.18	8.24	4.57	2.04
40	1.31	1.10	0.85	0.61	2.74	3.05	0.29	13.40	6.71	3.05
50	1.67	1.40	1.07	0.76	3.35	3.96	0.37	17.40	8.54	3.96
63	1.98	1.65	1.28	0.92	4.26	4.57	0.42	20.10	10.00	5.18
76	2.47	2.00	1.55	1.15	5.18	5.49	0.52	25.90	12.00	6.10
100	3.35	2.77	2.13	1.53	6.71	7.31	0.70	33.50	17.70	8.23
125	4.26	3.66	2.78	1.86	8.24	9.45	0.88	42.60	21.30	10.00
150	4.87	4.26	3.35	2.35	10.80	11.50	1.07	47.70	25.30	12.20
200	6.40	5.48	4.26	3.05	13.10	14.90	1.37	67.10	33.50	16.20
250	7.62	6.71	5.18	3.96	17.10	19.00	1.74	88.50	42.60	20.40
300	9.75	7.92	6.10	4.57	20.10	23.00	2.04	100.50	51.80	24.40

Friction in long pipeline is to be calculated.

TABLE 2: Frictional head lost in GI pipe

Q	Head lost in m per 100m				
Lpm(nominal dia mm)	40	50	65	80	100
40	1.15	0.38	0.10	0.03	0.01
60	2.57	0.84	0.22	0.08	0.03
80	4.58	1.50	0.40	0.14	0.05
100	7.16	2.36	0.63	0.22	0.07
120	10.30	3.38	0.91	0.32	0.11
150	16.10	5.30	1.42	0.50	0.17
180	23.20	7.60	2.05	0.72	0.24
240	41.25	13.52	3.64	1.29	0.42
300	64.45	21.12	5.69	2.01	0.66
360	-	30.41	8.19	2.90	0.95
400	-	37.55	10.11	3.58	1.17
500	-	-	15.80	5.59	1.83

Note: For intermediate value Q find head lost in friction hf_q by following formula

$$H_{fq} = (Q/Q_1) \times (Q/Q_1) \times hf_{q1}$$

Where hf_{q1} is head lost in Q₁ discharge.

d) Water requirement:

The water requirement of the crop depends upon the

- (i) Nature of the crop
- (ii) Atmospheric conditions
- (iii) Nature of soil

CONVERSION TABLE

Discharge :	
1 Imp Gallon	- 4.546 ltrs.
1 US Gallon	- 3.785 ltrs.
1 Cu m.	- 1000 ltrs.
1 Cu ft.	- 28.32 ltrs.
Discharge rate :	
1 m ³ /h	- 16.67 l/min.
1 m ³ /s	- 60,000 l/min.
1 l/s	- 60 l/min
1 Cu ft/s	- 1699.2 l/min.
1 Imp. GPH	- 0.0757 l/min
	- 0.00126 l/Sec.
Head :	
1 mtrs.	- 3.28 ft.
1 ft	- 0.3048 m.
1 kg/cm ²	- 10 mtrs
Pressure :	
1 Atmosphere	- 1.033 kg/cm ²
1 Atmosphere	- 14.7 lb/in ²
1 Atmosphere	- 10.34 mwc
1 lb/in ²	- 0.704 mwc
1 lb/in ²	- 2.31 ft wc
1 lb/in ²	- 51.6 mm of mercury.
1 cusec	- 1705 lpm
	- 1 Acre inch/hr
1 Cu mec	- 20558.3 lpm.
	- 1 Acre ft/hr.
Power :	
1 HP (Si)	- 0.746 kW
	- 746 W
1 HP (Metric)	- 0.736 kW
	- 736W
1 kW	- 1000 W
Weight :	
1 kg.	- 1000 gm.
1 kg.	- 2.2046 lb.
1 lb.	- 0.4536 kg.

DISCHARGE RATE TABLE

Veenotch reading in inch	Veenotch reading in mm.	Discharge rate in GPH (imp)	Discharge rate in lpm.
1/2"	12.7	21	1.59
3/4"	19.05	57.42	4.35
1"	25.4	117.22	8.88
1 1/4"	31.75	203.8	15.44
1 1/2"	38.1	320.5	24.28
1 3/4"	44.45	469.52	35.57
2"	50.8	653.8	49.53
2 1/4"	57.15	875.56	66.33
2 1/2"	63.5	1137.05	86.14
2 3/4"	69.85	1440.12	109.1
3"	76.2	1786.49	135.39
3 1/4"	82.55	2179.45	165.11
3 3/4"	95.25	3108.07	235.46
4"	101.6	3647.56	276.33
4 1/4"	107.95	4239.31	321.16
4 1/2"	114.3	4884.92	370.07
4 3/4"	120.65	5585.84	423.17
5"	127	6343.95	480.6
5 1/4"	133.35	7159.55	542.39
5 1/2"	139.7	8034.97	608.71
5 3/4"	146.05	8991.64	679.67
6"	152.4	9970.22	755.32
6 1/4"	158.75	11032.43	835.79
6 1/2"	165.1	12159.44	921.17
6 3/4"	171.45	13352.46	1011.55
7"	177.08	14466.41	1095.94
7 1/4"	184.15	15941.38	1207.68
7 1/2"	190.5	17339.65	1313.61
7 3/4"	196.85	18808.55	1424.89
8"	203.2	20349.38	1541.62

For Single Phase Motor maximum length of copper cable :

MOTOR RATING			CABLE SIZE IN SQUARE MILLIMETERS											
VOLTS	KW	HP	1.5	2.5	4	6	10	16	25	35	50	70	95	
220-240 VOLT 50Hz	0.37	0.5	120	200	320	480	810	1260	1900	2590	3580	4770	5920	MAXIMUM LENGTH IN METERS
	0.55	0.75	80	130	250	320	550	850	1290	1760	2430	3230	4000	
	0.75	1.0	60	100	170	250	430	670	1010	1380	1910	2550	3160	
	1.1	1.5	40	70	120	180	300	470	710	980	1360	1850	2320	
	1.5	2.0	30	60	90	130	230	360	550	760	1060	1440	1820	
	2.2	3.0		40	60	100	170	280	430	600	820	1080	1310	

For Three Phase Motor maximum length of copper cable :

MOTOR RATING			CABLE SIZE IN SQUARE MILLIMETERS												
VOLTS	KW	HP	1.5	2.5	4	6	10	16	25	35	50	70	95	120	
380-415 VOLT 50Hz	0.75	1.0	380	630	1020	1525	2595	4032	6111	8366					MAXIMUM LENGTH IN METERS
	1.1	1.5	300	500	810	1210	2060	3200	4850	6640	9220				
	1.5	2.0	220	370	590	880	1500	2340	3560	4890	6830	9230			
	2.2	3.0	150	250	400	600	1030	1600	2440	3350	4680	6340	7990		
	3	4.0	110	190	310	460	790	1230	1880	2590	3630	4930	6230		
	3.7	5.0	90	150	240	370	630	980	1490	2050	2870	3900	4920		
	4	5.5	80	140	230	340	590	920	1390	1910	2670	3600	4520		
	4.5	6.0	70	130	220	320	550	860	1310	1790	2510	3390	4260		
	5.5	7.5	60	110	170	260	440	690	1060	1450	2030	2750	3460		
	7.5	10.0	50	80	130	200	340	530	810	1110	1560	2120	2680		
	9.3	12.5		60	110	160	280	440	670	920	1310	1780	2250		
	11	15.0		50	90	130	230	360	550	750	1060	1440	1820		
	13	17.5			80	110	200	310	480	650	920	1250	1580		
	15	20.0			70	100	170	270	410	570	800	1080	1370		
	18.5	25.0				80	140	210	330	450	630	860	1090		
	22	30.0				70	120	180	280	380	540	740	930		
	26	35.0					100	150	230	310	440	610	770	870	
	30	40.0					90	130	210	280	400	540	680	780	
	37	50.0						110	170	230	320	440	550	700	
	45	60.0							140	190	260	360	460	500	
	55	75.0								160	220	290	380	340	
	75	100.0									160	220	260	340	
	93	125.0										170	220	260	

These are maximum length of cable in METERS FROM POWER SOURCE TO MOTOR. Exceeding these lengths will void guarantee.

SELF PRIMING MONOSET PUMP Mini Series



Crompton Greaves Self Priming Pumps 'MINI MASTER', 'MINI STAR' AND 'MINI MARVEL' Series - are specially designed and developed to meet water requirements of various needs such as residential bungalows, Flats, Lawns, Gardens, Hotels, Clubs etc. Years of experience, superior design and better manufacturing techniques have resulted into development of these pumps. Strict quality assurance standards during the total process trouble free and reliable operation requiring minimum maintenance.

Features

- Self priming upto 6.0 metres at mean sea level.
- Wide voltage operation from 180 to 240 volts.
- Unique motor design capacitor start and run (PSC) type eliminating centrifugal switch.
- Aluminum pressure die cast motor body.
- Bronze Impeller.
- High quality and long life mechanical seal.
- Fitted with Thermal Overload Protector.
- Compact, Sleek look.

Applications

- Used for water supply to Residential Bungalows, Garages, Flats, Dairies, Hotels, Laundries, Clubs, Hospitals, etc.
- Gardening and small plants
- Lawn sprinklers
- Booster applications
- Small farms

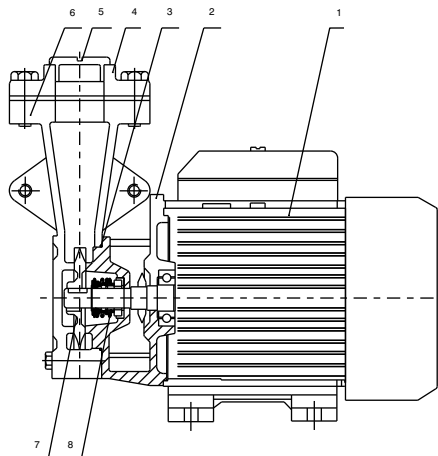
Standard Specifications

- **Range :** 0.094 to 0.75 kW (0.125 to 1.5 HP)
- **Supply :** 220 Volts in 1 Phase and 415 Volts in 3 phase at 50 Hz AC.
- **Pipe Size:** 13 x 13 to 25 x 25 mm.
- **Total Head :** 3 to 54 metres.
- **Capacity :** Upto 5200 LPH.
- **Liquid :** Clear water
- **Operating temperature :** Suitable for 65°C.
- **Rotation :** Clockwise when viewed from motor end.

Electric Motor

- TEFC, 2 Pole (3000 RPM Syn. Speed) Electric Motor for 1/3 Phase, 220/415_Volts, 50 Hz AC Supply. Suitable for ambient temperature upto 40°C
- Special Motor with different enclosures, supply voltage, frequency and ambient can be offered on request.

CONSTRUCTION



No.	PART	MATERIAL
1	Motor	–
2	Adaptor	Graded Cast Iron
3	'O' Ring	Nitrile Rubber
4	Suction/Delivery Flanges	Graded Cast Iron
5	Suction/Delivery Cap	Plastic
6	Volute Casing	Graded Cast Iron
7	Impeller	Graded Cast Iron
8	Mechanical Seal	–

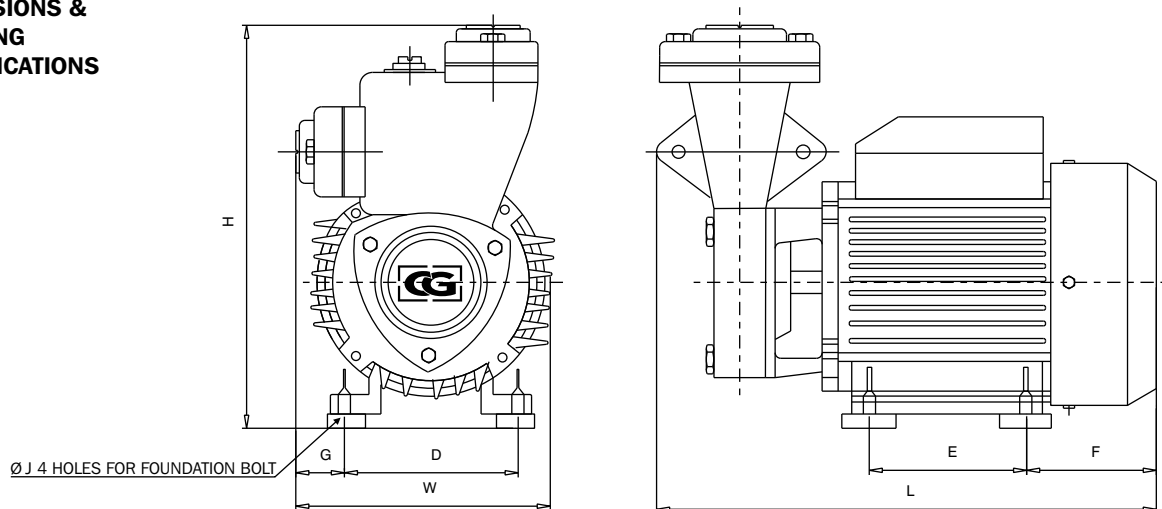
PERFORMANCE CHART

Rating	kW (HP)	Pipe size Suc x Del mm	Total Head in Metres																							
			3	6	9	12	15	16.5	18	19.5	21	24	25.5	27	28.5	30	33	36	39	42	45	48	51	54		
			Discharge in LPH																							
MINI XTRAA	1.1 (1.5)	25X25										5200	5000	4850	4700	4500	4170	3820	3500	3150	2800	2480	2120	1800		
MINIMASTER I	0.75(1.0)	25x25		4000	3780	3560	3340	3230	3120	3010	2900	2690	2580	2470	2360	2250	2030	1810	1590	1370	1150	950				
MINIMASTER I(3PH)	0.75(1.0)	25x25		4000	3780	3560	3340	3230	3120	3010	2900	2690	2580	2470	2360	2250	2030	1810	1590	1370	1150	950				
MINIMASTER II	0.37(0.5)	25x25		2600	2350	2100	1860	1730	1610	1480	1350	1100	1000	850	730	600										
MINIMASTER II(3PH)	0.37(0.5)	25x25		2600	2350	2100	1860	1730	1610	1480	1350	1100	1000	850	730	600										
MINIMASTER III	0.18(0.25)	20x20	1950	1720	1490	1260	1040	920	810	700																
MINIMASTER IV	0.094(0.125)	13x13	1650	1370	1090	810	525																			
MINISTAR I	0.75(1.0)	25x25		3350	3150	2950	2750	2650	2550	2450	2350	2150	2050	1940	1850	1750	1550	1350	1150	950	750					
MINISTAR II	0.37(0.5)	25x25		2400	2120	1860	1590	1460	1320	1200	1060	800	660	530	400											
MINISTAR III	0.18(0.25)	20x20	1860	1610	1360	1110	860	740	600																	
MINIMARVEL I	0.75(1.0)	25x25		3000	2800	2600	2400		2200		2000	1800	1700	1600	1500	1400	1200	1000	750							
MINIMARVEL II	0.37(0.5)	25x25		2000	1730	1460	1200	1060	930	800	660	400														
MINIMARVEL II(BR)	0.37(0.5)	25x25		2000	1730	1460	1200	1060	930	800	660	400														
MINIMAJESTIC II	0.37(0.5)	25x25		2000	1730	1460	1200	1060	930	800	660	400														
MINI WIN II	0.37(0.5)	25x25		2600	2220	1910	1800	1710	1570	1450	1370	1150	910	840	570											
MINI ELEGNCE II	0.37(0.5)	25x25		2200	1920	1640	1370	1230	1090	950	810	540	400													

Notes:-

1. 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%).
2. The above performance is subjected to tolerances as per relevant Indian Standards.
3. Pipe sizes mentioned in mm are nearest conversion of inches, but actual pipe threadings are provided as per 'BSP' Standards
4. Total head = Static Suction + Static Delivery + Losses in pipes, bends etc.
5. The self priming time depends upon static suction, installation conditions and the duration of use of the pump.

**DIMENSIONS &
SHIPPING
SPECIFICATIONS**



Rating	Pump Dimensions (mm)								Shipping Specifications			
									Qty Packing	Weight in Kg		Volume Cu.M. Master Package
	L	W	H	D	G	E	F	J		Nett/Qty	Gross/Qty	
MINI XTRAA	370	170	252	125	43	100	92	14 x 10	1	18.92	21.25	0.025
MINIMASTER I	340	185	245	125	43	100	92	14 x 10	1	15.10	17.40	0.023
MINIMASTER I(3PH)	340	185	245	125	43	100	92	14 x 10	1	15.00	17.30	0.023
MINIMASTER II	275	150	232	112	35	90	75	Ø9	2	9.60	10.79	0.034
MINIMASTER II(3PH)	275	150	232	112	35	90	75	Ø9	2	9.55	10.74	0.034
MINIMASTER III	235	140	195	100	33	79	60	Ø7.5	2	5.93	6.83	0.029
MINIMASTER IV	210	150	150	100	33	52	60	Ø7.5	2	5.20	5.84	0.020
MINISTAR I	285	170	245	112	38	90	77	Ø9	1	11.82	13.63	0.019
MINISTAR II	270	150	215	112	38	90	75	Ø9	2	8.85	9.89	0.034
MINISTAR III	240	150	195	100	33	80	60	10 x 8	2	5.75	6.55	0.025
MINIMARVEL I	275	150	225	112	38	90	68	Ø9	1	10.60	12.00	0.017
MINIMARVEL II	250	140	207	100	20	80	64	10 x 8	2	7.59	8.40	0.030
MINIMARVEL II (BR)	250	140	207	100	20	80	64	10 x 8	2	7.59	8.40	0.030
MINIMAJESTIC II	250	140	207	100	20	80	64	10 x 8	2	7.59	8.40	0.030
MINI WIN II	260	150	232	112	40	66	75	Ø10	2	8.90	9.97	0.034
MINI ELEGNCE II	252	150	190	112	30	66	75	Ø10	2	7.64	8.50	0.026

All flanges are with 'BSP' threads.

MONOSET PUMPS MINI Series



Crompton Greaves MINI Series non-self priming monoset pumps are specially designed and developed to meet various needs of water applications. Years of experience, superior design and better manufacturing techniques have resulted into development of this new range of pumps. Strict quality assurance standards during the total process assures trouble free and reliable operation requiring minimum maintenance.

Features

- Bronze impeller.
- High quality and long life mechanical seal.
- Non self-priming but operates upto 8 metres suction, with good quality foot valve, at mean sea level.
- Unique motor design capacitor start and run (PSC) type eliminating centrifugal switch.
- Fitted with thermal overload protector.
- Aluminum pressure die cast motor body.

Applications

- Bungalows, flats, garages, laundries and industries.
- Car washing.
- Lawn sprinklers and small irrigation systems.
- Ornamental fountains.
- Water circulation in solar heater systems for small application

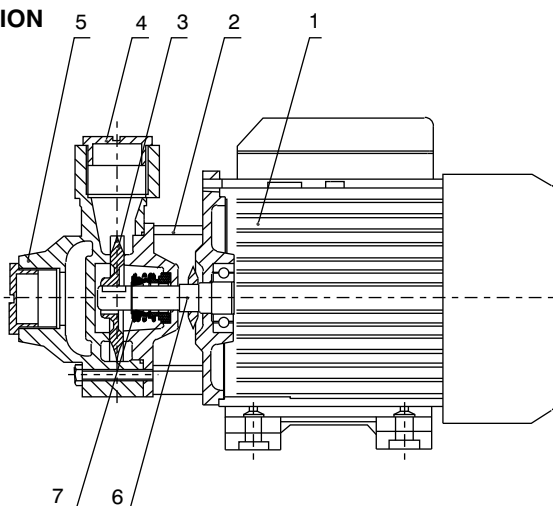
Standard Specifications

- **Range** : 0.37 to 0.75 kW (0.5 to 1.0 HP)
- **Supply** : 1 Phase, 220 Volts, 50Hz AC or 60Hz AC for export model.
- **Pipe size** : 25 x 25 mm
- **Total head** : Upto 48 metres
- **Capacity** : Upto 3000 LPH
- **Liquid** : Clear water
- **Operating temperature** : Suitable for upto 65°C
- **Rotation** : Clockwise when viewed from motor end.

Electric Motor

- TEFC, 2 Pole (3000 RPM Syn. Speed) Electric Motor for 1 Phase, 220 Volts 50Hz AC or 60Hz AC for export model. Suitable for ambient temperature upto 40°C.
- Special motor with different enclosures, supply voltage, frequency and ambient can be offered on request.

CONSTRUCTION



No.	PART	MATERIAL
1	Motor	–
2	Adaptor	Graded Cast Iron
3	Impeller	Bronze
4	Suction / Delivery Cap	Plastic
5	Volute Casing	Graded Cast Iron
6	Shaft	Stainless Steel (AISI410)
7	Mechanical Seal	–

PERFORMANCE CHART

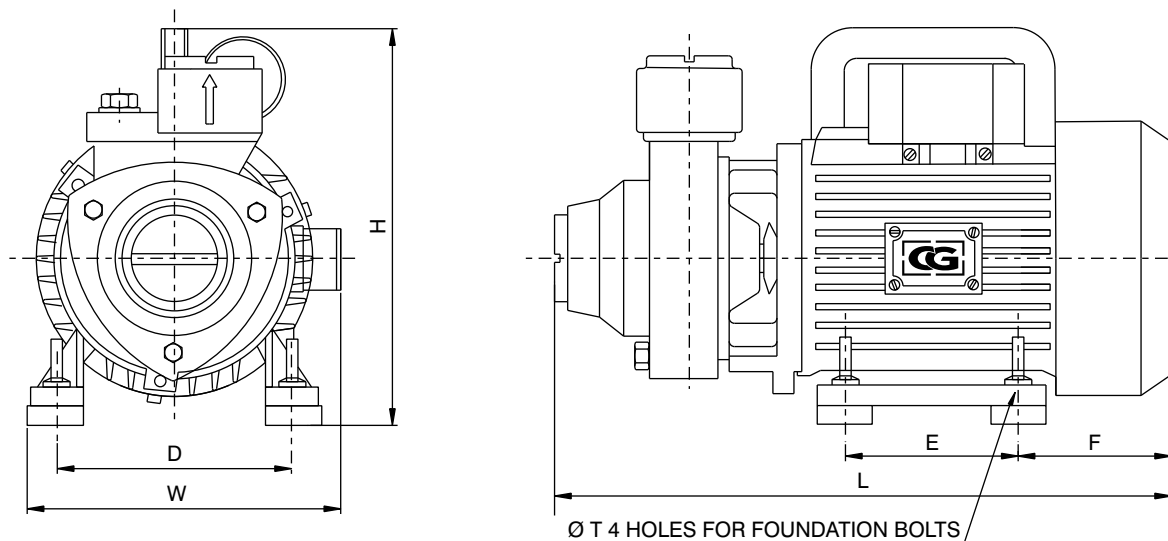
Rating	Pipe Size Suc x Del mm	Motor kW (HP)	Total Head in Metres								
			6	12	18	24	27	30	36	42	48
			Discharge in LPH								
MINI II (PE)	25 x 25	0.37 (0.5)	2000	1600	1200	800	600				
MINI II P	25 x 25	0.37 (0.5)	2000	1600	1200	800	600				
MINI II AE*	25 x 25	0.37 (0.5)	2000	1600	1200	800	600				
MINI II AEH*	25 x 25	0.37 (0.5)	2000	1600	1200	800	600				
MINI I EH*	25 x 25	0.75 (1.0)	3000	2650	2300	1950	1800	1600	1250	900	600

* EXPORT MODELS

Notes:-

1. 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% and 60Hz±3% for Export model).
2. The above performance is subjected to tolerances as per relevant Indian Standards.
3. Pipe sizes mentioned in mm are nearest conversion of inches, but actual pipe threadings are provided as per 'BSP' Standards
4. Total head = Static Suction + Static Delivery + Losses in pipes, bends etc.

DIMENSIONS & SHIPPING SPECIFICATIONS



Rating	Dimensions (mm)							Shipping Specifications		
	D	E	F	T	L	W	H	Net Weight Kg.	Gross Weight Kg.	Volume Cu.M.
MINI II-PE	100	80	64	10X8	270	120	170	6.62	7.22	0.021
MINI II-P	112	90	75	9.0	287	135	190	7.95	8.70	0.026
MINI II-AE	100	81	64	8.5	270	125	170	6.55	7.15	0.01
MINI II-AEH	100	81	64	8.5	270	125	170	6.55	7.15	0.01
MINI I-EH	112	90	71	8.5	300	145	187	10.0	10.75	0.02

All flanges are with 'BSP' threads.

SELF PRIMING MONOSET PUMP - 'DMB' SERIES



Crompton Greaves Self Priming Monoset Pumps - 'DMB' series incorporate superior design to make them robust and long lasting. This range of electric driven pumps, covers a popular section of head and discharge requirements.

Features

- Monoset construction.
 - Self priming upto 8.0 metres at mean sea level.
- High quality and long life
Mechanical seal.
- Electric motor for single phase or three phase supply and with TEFC or DP enclosure.
- Capacitor Start Induction Run
Single phase Motor for high torque.

Applications

- Water supply for Bungalows, Buildings, Flats, Hotels, Garages, Laundries and Industries.
- Car washing.
- Booster application.
- Small farms.
- Lawn sprinklers.
- Ornamental Fountains.
- Water circulation in solar heater systems.
- Auxiliary equipment to machinery.

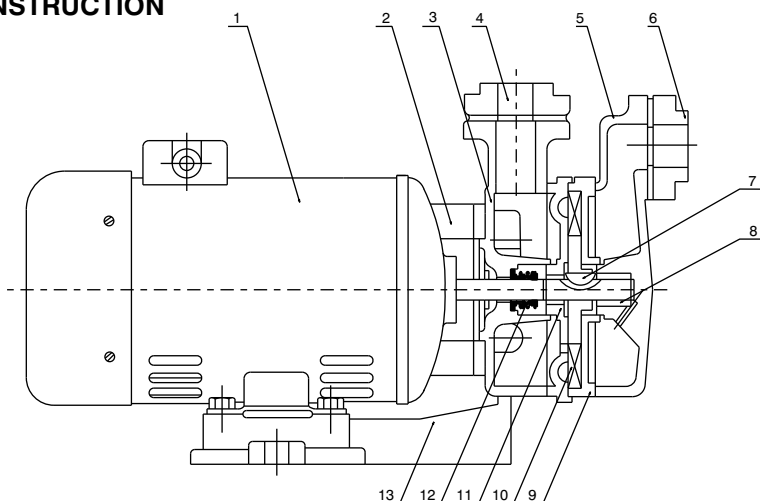
Standard Specifications

- **Range :-** 0.18 kW to 1.5 kW (0.25 to 2.0 HP).
- **Supply :-** 225 Volts for 1 phase and 415 Volts for 3 phase, 50Hz, AC.
- **Pipe size :-** 25 x 25 mm and 40 x 40 mm.
- **Total head :-** upto 45 metres.
- **Capacity :-** Upto 8000 LPH.
- **Liquid:-** Clear water
- **Rotation :-** Clockwise as viewed from motor end.
- **Operating temperature :-** Suitable upto 65°C water.

Electric Motor

- Dripproof/Totally Enclosed Fan Cooled, 4 pole (1500 RPM Syn. Speed) Electric Motor for 1 phase, 225Volts or 3 phase, 415 Volts; 50 Hz, AC supply, suitable for ambient temperature upto 40°C.
- Special motors with different enclosures, supply voltages, frequency and ambient can be offered on request.

CONSTRUCTION



No.	PART	MATERIAL
1	Motor	—
2	Adaptor	Graded Cast Iron
3	Delivery Chamber	Graded Cast Iron
4	Delivery Flange	Graded Cast Iron
5	Suction Chamber	Graded Cast Iron
6	Suction Flange	Graded Cast Iron
7	Impeller Key	Carbon Steel
8	Shaft	Stainless Steel (AISI 410)
9	Suction Casing	Graded Cast Iron
10	Impeller	High Tensile Brass (HTB1)
11	Delivery Casing	Graded Cast Iron
12	Mechanical Seal	—
13	Base Plate	Graded Cast Iron

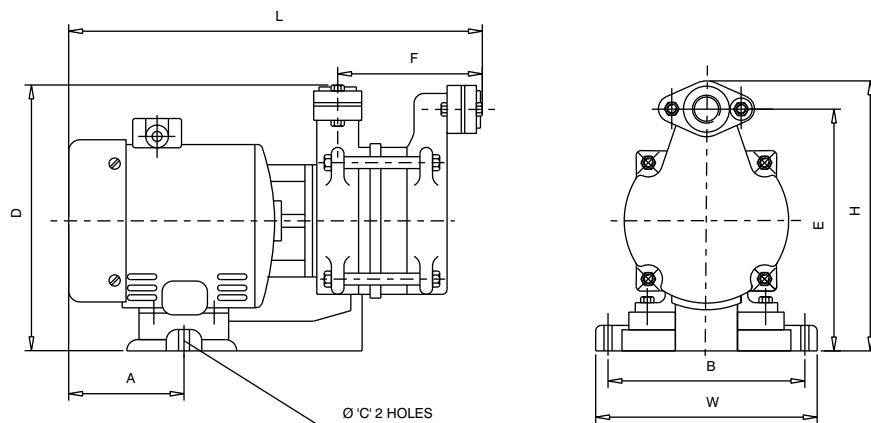
PERFORMANCE CHART

Rating	Motor kW (HP)	Pipe Size Suc. x Del. (mm)	Total Head In Metres															
			6	7.5	9	12	15	16.5	18	21	24	27	30	33	36	39	42	45
			Discharge In LPH															
DMB025DG	0.18 (0.25)	25 x 25		1565	1455	1145	725	460										
DMB05D/G DMB05D(3 Ph)	0.37 (0.5)	25 x 25	2860	2750	2650	2420	2180	2060	1940	1650								
DMB10DG/S/CS/L DMB10DG (3Ph) DBM10ACS/CSG	0.75 (1.0)	25 x 25							2800	2540	2300	2080	1860	1640	1440	1240	1060	880
DMB20	1.5 (2.0)	40 x 40			8000	7700	7400	7200	7000	6600	6300							

Notes :-

1. 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%).
2. The above performance is subjected to tolerances as per relevant Indian Standards.
3. Pipe sizes mentioned in mm are nearest conversion of inches, but actual pipe threadings are provided as per 'BSP' Standard.
4. Total Head = Static Suction + Static Delivery + Losses in pipes, bends etc.
5. The self priming time depends upon static suction, installation conditions and the duration of use of the pump.
6. Suffix 'D' indicates pump with Drip Proof Motor, otherwise with TEFC Motor.
7. Suffix '(3Ph)' indicates Pump for three phase supply, otherwise for single phase supply.

DIMENSIONS & SHIPPING SPECIFICATIONS



Rating	Dimensions (mm)									Shipping Specifications		
	A	B	C	D	E	F	L	W	H	Net Weight Kg.	Gross Weight Kg.	Volume Cu.M.
DMB025DG	95	200	15	230	200	120	355	215	230	18	20.5	0.030
DMB05D/G	110	195	15	245	210	130	390	215	245	23.5	26.0	0.030
DMB05D (3Ph)	105	195	15	245	210	130	385	215	245	25	27.5	0.030
DMB10DS/CS	175	195	15	245	215	130	450	215	245	31	34.0	0.039
DMB10DG/L	185	195	15	245	215	130	460	215	245	29.5	32.5	0.039
DMB10DG (3Ph)	130	195	15	245	245	130	405	215	245	27	29.5	0.039
DMB10ACS/CSG	165	195	15	245	245	130	445	215	245	30	32.5	0.039
DMB20	151	160	12	268	215	145	490	222	255	48.5	63.0	0.086

All flanges are with BSP threads.

SELF PRIMING COUPLED PUMPSET - 'DM' SERIES



Crompton Greaves Self Priming Pumpsets-'DM' series incorporate superior design to make them robust and long lasting. The Coupled range of pumps features a wide variety of models, to fulfil several domestic requirements, with the flexibility inherent in the coupled construction.

Features

- Pump and Motor coupled with pin type flexible coupling mounted on common base plate.
- Self priming upto 8.0 metres at mean sea level.
- Sealing arrangement with stuffing box and gland packing.
- Drip Proof or Totally Enclosed Fan Cooled Motor.

Applications

- Water supply for Bungalows, Buildings, Flats, Hotels, Garages, Laundries and Industries.
- Car washing.
- Booster application.
- Small farms.
- Lawn Sprinklers.
- Ornamental Fountains.

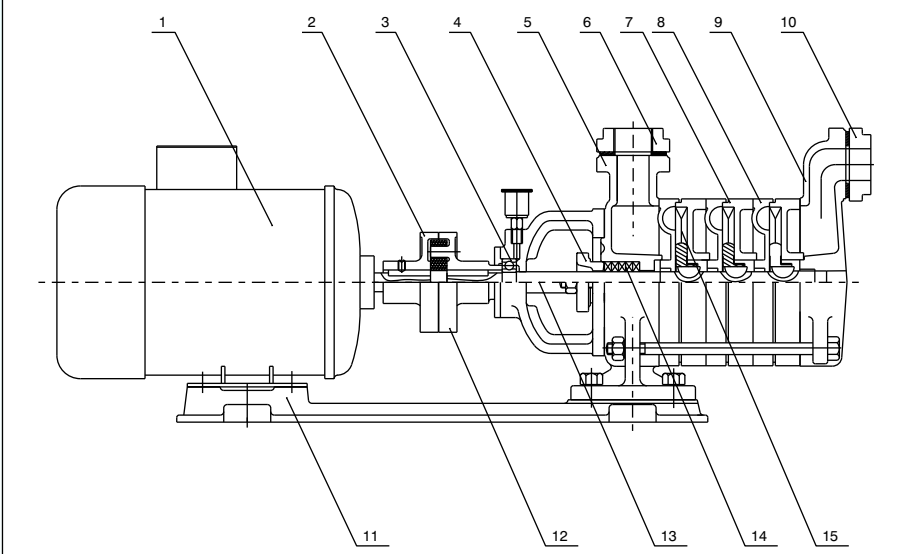
Standard Specifications

- **Range** : 0.75 kW to 1.1 kW (1.0 HP to 1.5 HP).
- **Supply** : 225 Volts for 1 phase, 50Hz, AC.
- **Pipe Size** : 25 x 25 mm.
- **Total Head** : 18 to 57 metres.
- **Capacity** : Upto 2920 LPH.
- **Liquid**: Clear water
- **Rotation** : Clockwise as viewed from motor end.
- **Operating Temperature** : Suitable upto 65°C Water.

Construction

- Dripproof/Totally Enclosed Fan Cooled, 4 pole (1500 RPM Syn. Speed) Electric Motor for 1 phase, 225 Volts, or 3 phase 415 Volts, 50 Hz, AC supply. Suitable for ambient temperature upto 40°C.
- Special motor with different enclosures, supply voltages, frequency and ambient can be offered on request.

CONSTRUCTION



No.	PART	MATERIAL
1	Motor	–
2	Motor Coupling	Graded Cast Iron
3	Bearing Bracket	Graded Cast Iron
4	Gland	Graded Cast Iron
5	Delivery Chamber	Graded Cast Iron
6	Delivery Flange	Graded Cast Iron
7	Suction Casing	Graded Cast Iron
8	Delivery Casing	Graded Cast Iron
9	Suction Chamber	Graded Cast Iron
10	Suction Flange	Graded Cast Iron
11	Base Plate	Brass
12	Pump Coupling	Graded Cast Iron
13	Shaft	Stainless Steel (AISI 410)
14	Gland Packing	Threaded Graphite Cotton
15	Impeller	High Tensile Brass (HTB1)

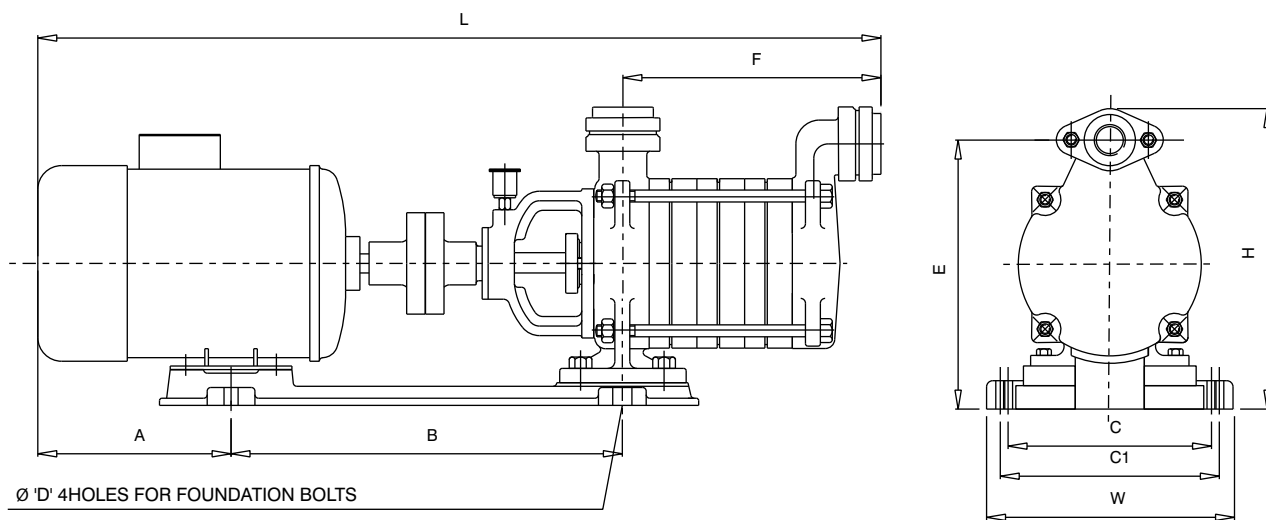
PERFORMANCE CHART

Rating	Motor kW (HP)	Pipe Size Suc. x Del. (mm)	Total Head In metres																
			9	12	15	18	21	24	27	30	33	36	39	42	45	48	51	54	57
			Discharge In LPH																
DM13T/G/ DM13TCS/ DM13TA	0.75 (1.0)	25 X 25				2260	2130	1990	1860	1710	1560	1410	1260	1080					
DM15T	1.1 (1.5)	25 X 25						2920	2840	2740	2630	2520	2400	2280	2150	2020	1880	1730	1540

Notes :-

1. The above performance is based on rated voltage (220+6%-15% for 1 Phase) and rated frequency (50Hz±3%).
2. The above performance is subjected to tolerances as per relevant Indian Standards.
3. Pipe sizes mentioned in mm are nearest conversion of inches, but actual pipe threadings are provided as per 'BSP' Standard.
4. Total Head = Static Suction + Static Delivery + Losses in pipes, bends etc.
5. Self priming time depends upon static suction, installation conditions and the duration of use of the pump.
6. All above ratings are with Motor in Drip Proof enclosure except DM13TA and DM15T which are with Motor in TEFC enclosure.

DIMENSIONS & SHIPPING SPECIFICATIONS



Rating	Dimensions (mm)										Shipping Specifications		
	A	B	C	C1	D	E	F	L	W	H	Net Weight Kg.	Gross Weight Kg.	Volume Cu.M.
DM13T/G	175	328	200	220	16	225	166	675	260	255	38.5	55.5	0.10
DM13TCS	185	328	200	220	16	225	166	690	260	255	39.5	56.5	0.10
DM13TA	165	340	200	220	16	225	166	670	260	255	40.5	57.5	0.10
DM15T	165	341	200	233	16	253	205	710	275	285	54	76.0	0.143

All flanges are with BSP threads.

SELF PRIMING MONOSET PUMP 'CMB' SERIES



Crompton Greaves Self Priming Monoset Pumps- 'CMB' series are heavy duty type and are designed specially to meet requirements of different needs such as residential Bungalows, Flats, Hotels, Clubs, Gardens, Small Farms, Booster application etc. Years of experience and superior design has made these pumps highly reliable, long lasting and robust. Strict quality standards during total process assures trouble free, reliable operation requiring minimum maintenance.

Features

- Robust and sturdy design
- Self Priming upto 8.0 metres at mean sea level
- Pump castings (Chamber, Casing, End Cover), Adaptor, Stator body, Endshield are made of close grained cast iron of high tensile strength and has a very smooth surface finish resulting in low frictional losses
- High tensile brass Impeller is used to give trouble free service
- High quality and long life mechanical seal

- Stainless steel shaft with ground finish
- Pressure diecast rotor with TEFC enclosure for motors
- Unique Motor design-Capacitor start and run (PSC) type eliminating centrifugal switch
- Grease lubricated anti-friction ball bearings are fixed at both ends to withstand axial and radial loads
- All components are manufactured from material as per standard specifications

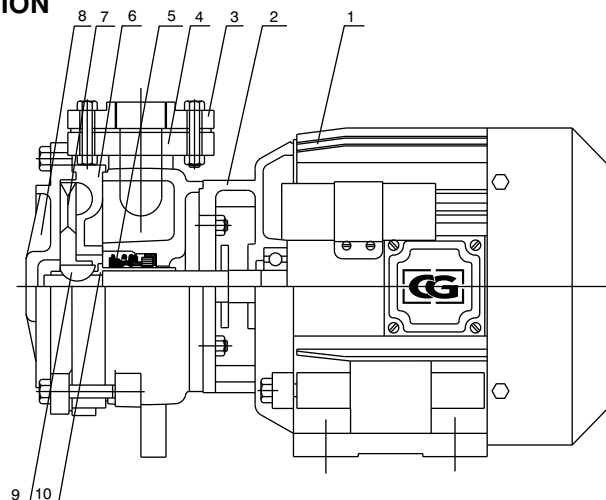
Applications

- Used for Water Supply to : Residential Bungalows, Flats, Hotels, Clubs, Garages, Dairies, Laundries, Hospitals, etc
- Gardening and Small Plants.
- Lawn Sprinklers
- Booster applications.
- Small Farms

Standard Specifications

- **Range :** 0.37 / 0.75 kW (0.5 / 1.0 HP)
- **Pipe size :** 25 x 25 mm
- **Speed :** 1500 RPM (Syn.)
- **Total Head :** Upto 39 metres
- **Capacity :** Upto 4920 LPH
- **Liquid :** clear water
- **Rotation :** Clockwise as viewed from motor end
- **Motor :** TEFC with class 'B' insulation suitable for 1 Ph, 220V, 50 Hz supply.

CONSTRUCTION



No.	PART	MATERIAL
1	Motor	—
2	Adaptor	Graded Cast Iron
3	Suction/Delivery Flange	Graded Cast Iron
4	Suction/Delivery Chamber	Graded Cast Iron
5	Mechanical Seal	—
6	Suction/Delivery Casing	Graded Cast Iron
7	Impeller	HTB1
8	End Cover	Graded Cast Iron
9	Key	Carbon Steel
10	Sleeve	Brass

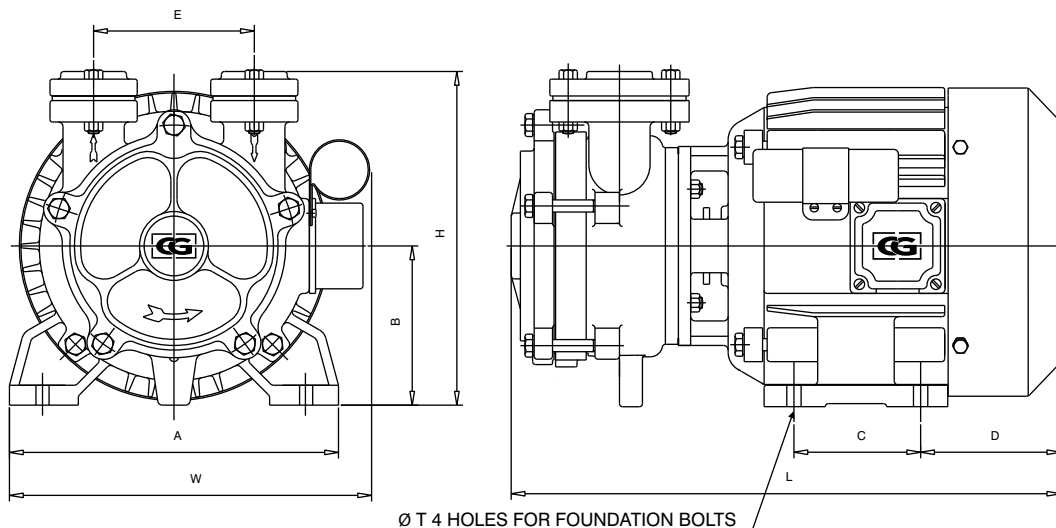
PERFORMANCE CHART

Rating	Motor kW (HP)	Pipe Size Suc. X Del. (mm)	Total Head in Metres											
			6	9	12	15	18	21	24	27	30	33	36	39
			Discharge in LPH											
CMB05N	0.37 (0.5)	25 x 25	3240	2910	2610	2280	1950	1650	1320					
CMB05NV	0.75 (1.0)	25 x 25	3240	2910	2610	2280	1950	1650	1320					
CMB10N	0.75 (1.0)	25 x 25	4920	4575	4250	3900	3550	3200	2900	2550	2200	1900	1550	1200
CMB10NV	0.75 (1.0)	25 x 25	4920	4575	4250	3900	3550	3200	2900	2550	2200	1900	1550	1200

Notes:-

1. The above performance is based on rated voltage (220+6%-15% for 1 Phase) and rated frequency (50Hz±3%).
2. The above performance is subjected to tolerances as per relevant Indian Standards.
3. Pipe sizes mentioned in mm are nearest conversion of inches, but actual pipe threadings are provided as per 'BSP' Standards
4. Total head = Static Suction + Static Delivery + Losses in pipes, bends etc.
5. The self priming time depends upon static suction, installation conditions and the duration of use of the pump.

DIMENSIONS & SHIPPING SPECIFICATIONS



Rating	Dimensions (mm)									Shipping Specification		
	A	B	C	D	E	T	L	W	H	Net Weight Kg.	Gross Weight Kg.	Volume Cu.M.
CMB05N	170	105	80	97	105	10	362	242	220	27.3	30.9	0.0317
CMB05NV	158	185	90	95	104	10	338	180	212	22.0	24.3	0.0260
CMB10N	170	105	80	97	105	10	362	242	220	27.3	30.9	0.0317
CMB10NV	174	88	100	95	115	10	353	220	220	27.8	30.8	0.0315

All flanges are with BSP threads.

SELF PRIMING MONOSET PUMP 'AQUA' SERIES



Crompton Greaves Self Priming Monoset Pumps- 'AQUA' series are specially designed and developed to meet water requirements of various needs such as residential bungalows, flats, lawns, gardens, hotels, clubs etc. Years of experience, superior design and better manufacturing process have resulted into development of these pumps. Strict quality assurance standards during the total process assures trouble free and reliable operation requiring minimum maintenance.

Features

- Gun metal casings and gun metal impeller - No corrosion
- Stainless steel shaft - No corrosion
- High quality and long life mechanical seal
- Unique motor design-capacitor start and run (PSC) type eliminating centrifugal switch.
- Suitable for wide voltage operation - 160 to 240 V
- Fitted with terminal block

- Self priming upto 8.0 metres at mean sea level
- Compact design
- Light in weight - Portable

Applications

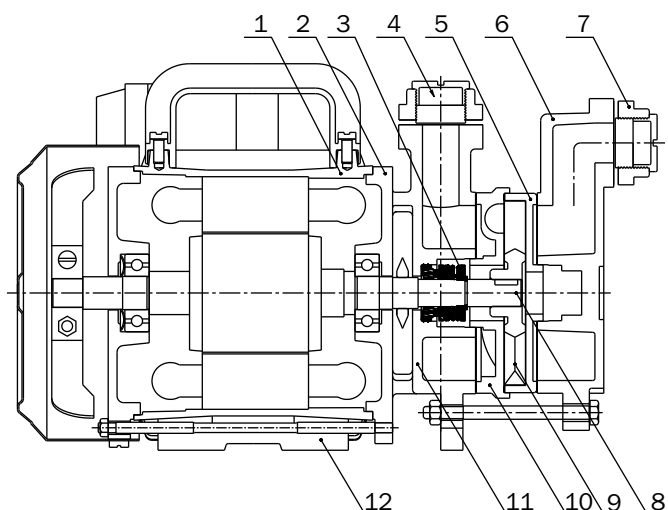
Used for Water supply to :

- Residential Bungalows, Flats, Hotels, Hospitals, Laundries, Clubs, etc
- Gardening and Small Plants
- Lawn Sprinklers
- Booster applications
- Small farms
- Car washing
- Ornamental Fountains
- Water circulation in Solar Heater Systems

Electric Motor

- TEFC enclosure, 2 Pole (3000 RPM Syn. Speed), 220V, 50 Hz, AC Supply, suitable for ambient temperature upto 40°C

CONSTRUCTION



No.	PART	MATERIAL
1	Motor	-
2	Adaptor	Graded Cast Iron
3	Mechanical Seal	-
4	Delivery Flange	Graded Cast Iron
5	Suction Casing	Gun Metal
6	Suction Chamber	Graded Cast Iron
7	Suction Flange	Graded Cast Iron
8	Shaft	Stainless Steel (AISI 410)
9	Impeller	Bronze
10	Delivery Casing	Gun Metal
11	Delivery Chamber	Graded Cast Iron
12	Base Plate	Graded Cast Iron

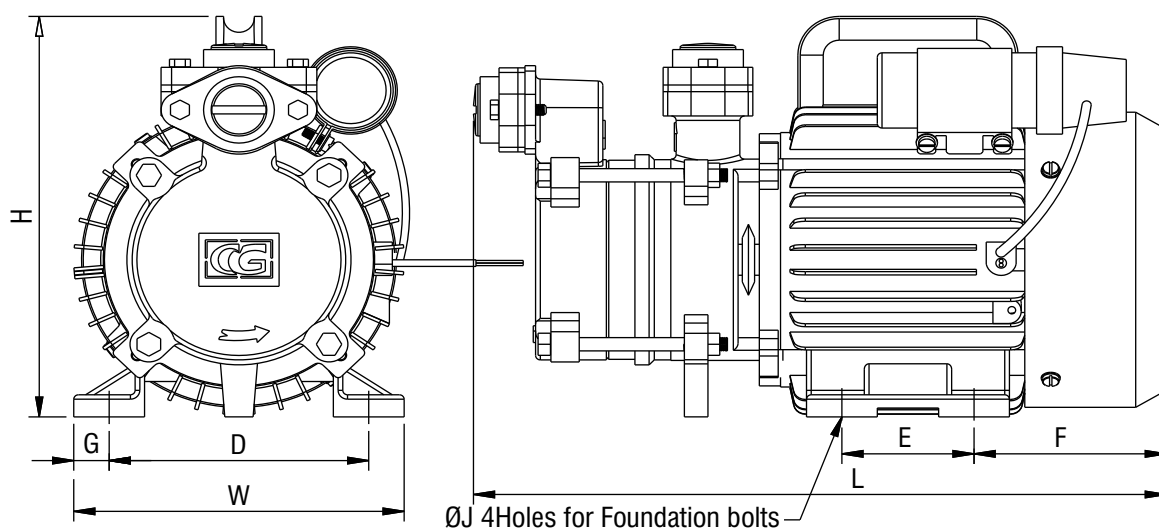
PERFORMANCE CHART

Rating	kW (HP)	Pipe Size Suc.x Del. (mm)	Total Head in Metres								
			6	9	12	15	18	21	24	27	30
			Discharge in LPH								
AQUAMASTER II	0.37 (0.5)	13 X13	1800	1660	1540	1420	1300	1180	1050	920	800
AQUASTAR II	0.18 (0.25)	13 X13	1600	1400	1200	1000	800	600	400		

Notes:-

1. The above performance is based on rated voltage (220+6%-15% for 1 Phase) and rated frequency (50Hz±3%).
2. The above performance is subjected to tolerances as per relevant Indian Standards.
3. Pipe sizes mentioned in mm are nearest conversion of inches, but actual pipe threadings are provided as per 'BSP' Standards
4. Total head = Static Suction + Static Delivery + Losses in pipes, bends etc.
5. The self priming time depends upon static suction, installation conditions and the duration of use of the pump.

DIMENSIONS & SHIPPING SPECIFICATIONS



Rating	Pump Dimensions (mm)								Shipping Specifications			
									Qty Packing	Weight in Kg		Volume Cu.M. Master Package
	L	W	H	D	G	E	F	J		Nett/Qty	Gross/Qty	
Aquamaster - II	295	130	185	112	11	66	72	Ø10	2	8.75	9.60	0.025
Aquastar - II	300	140	160	100	20	80	64	10 x 8	2	8.2	9	0.034

All flanges are with BSP threads.

MONOSET PUMP 'FLOMAX' SERIES



Crompton Greaves Self Priming Monoset Pumps- 'FLOMAX' series are specially designed and developed to meet water requirements of various needs such as residential bungalows, flats, lawns, gardens, hotels, clubs etc. Years of experience, superior design and better manufacturing process have resulted into development of these pumps. Strict quality assurance standards during the total process assures trouble free and reliable operation requiring minimum maintenance.

Features

- Stainless steel shaft - No corrosion
- High quality and long life mechanical seal
- Unique motor design-capacitor start and run (PSC) type eliminating centrifugal switch.
- Suitable for wide voltage operation - 160 to 240 V
- Fitted with terminal block

- Self priming upto 3.0 metres at mean sea level
- Compact design
- Light in weight - Portable

Applications

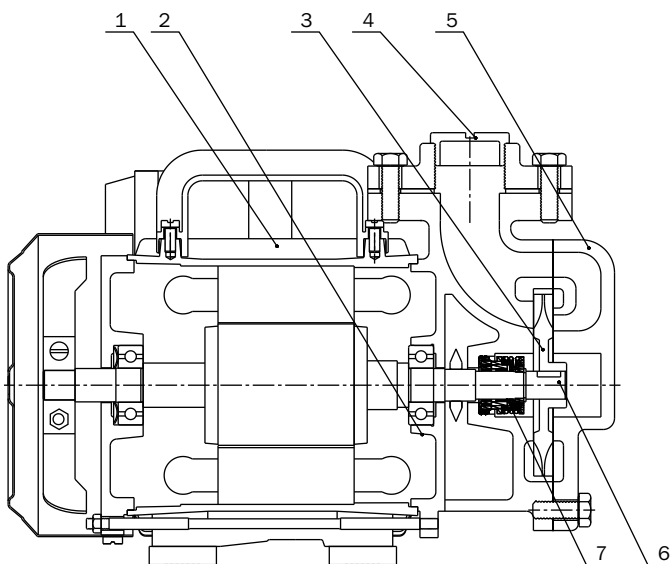
Used for Water supply to :

- Residential Bungalows, Flats, Hotels, Hospitals, Laundries, Clubs, etc
- Gardening and Small Plants
- Lawn Sprinklers
- Booster applications
- Small farms
- Car washing
- Ornamental Fountains
- Water circulation in Solar Heater Systems

Electric Motor

- TEFC enclosure, 2 Pole (3000 RPM Syn. Speed), 220V, 50 Hz, AC Supply, suitable for ambient temperature upto 40°C

CONSTRUCTION



No.	PART	MATERIAL
1	Motor	–
2	Adaptor	Graded Cast Iron
3	Impeller	Bronze
4	Suction / Delivery Cap	Plastic
5	Volute Casing	Graded Cast Iron
6	Shaft	Stainless Steel (AISI410)
7	Mechanical Seal	–

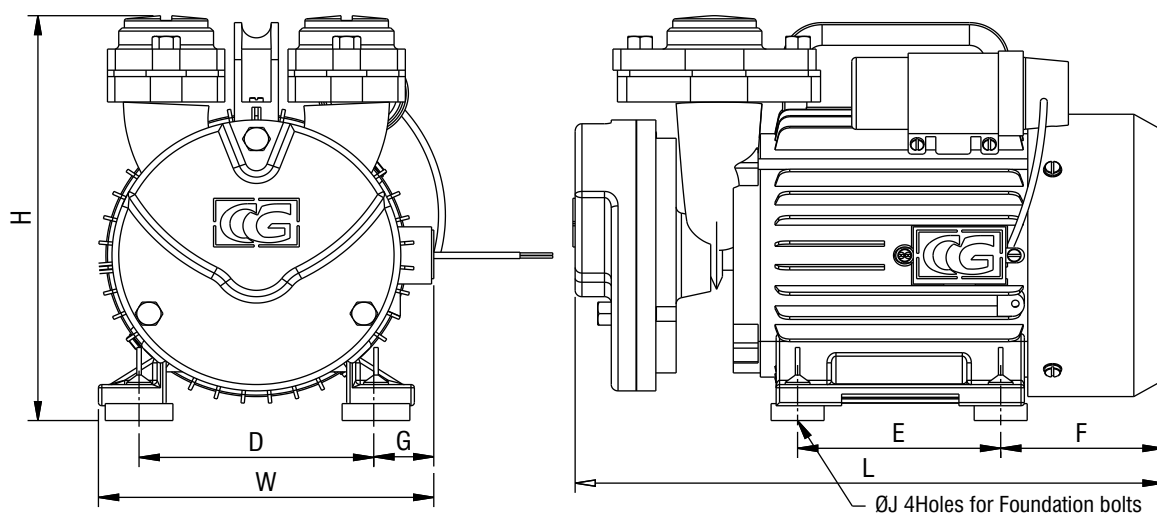
PERFORMANCE CHART

Rating	Motor kW (HP)	Pipe Size Suc.x Del. (mm)	Total Head in Metres								
			6	9	12	15	18	21	24	27	30
			Discharge in LPH								
FLOMAX II	0.37 (0.5)	25 X 25	3000	2675	2350	2050	1750	1425	1125	800	500

Notes:-

1. The above performance is based on rated voltage (220+6%-15% for 1 Phase) and rated frequency (50Hz±3%).
2. The above performance is subjected to tolerances as per relevant Indian Standards.
3. Pipe sizes mentioned in mm are nearest conversion of inches, but actual pipe threadings are provided as per 'BSP' Standards
4. Total head = Static Suction + Static Delivery + Losses in pipes, bends etc.
5. The self priming time depends upon static suction, installation conditions and the duration of use of the pump.

DIMENSIONS & SHIPPING SPECIFICATIONS



Rating	Pump Dimensions (mm)								Shipping Specifications			
									Qty Packing	Weight in Kg		Volume Cu.M.
	L	W	H	D	G	E	F	J		Nett/Qty	Gross/Qty	Master Package
FLOMAX II	270	150	190	112	25	90	75	Ø 9	1	10.7	11.85	0.033

All flanges are with BSP threads.

CENTRIFUGAL JET PUMPS



Crompton Greaves Centrifugal Jet Pump is a combination of Centrifugal Monoset Pump and Jet Pump (assembly) designed specially to lift water from underground resources. Unique design and strict quality control checks make products highly reliable, requiring minimum maintenance.

Features

- Easy to install and operate.
- No moving parts inside the borewell.
- Requires minimum floor area.
- High quality and long life mechanical seal.
- Unique Motor design-capacitor start and Run (PSC) type eliminating centrifugal switch in single phase pumps.
- Suitable for wide voltage operation.
- Jet Assembly, comprising of nozzle, body, ventury and foot valve of gun metal.
- Packer type pump with cast iron packer head (well adaptor).
- Specially designed cast iron pressure regulating valve.

Applications

- Residential bungalows, buildings and hotels.
- Lawn sprinklers.
- Industries.
- Car washing, garages.
- Small farms.

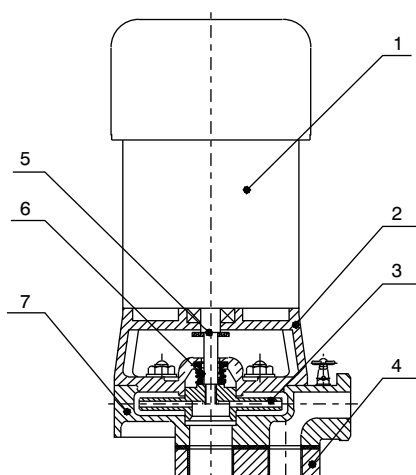
Standard Specifications

- **Range :-** 1 P-0.37 kW to 2.0 kW (0.5 to 2.0 HP) 3P-2.2 (3.0)
- **Borewell size :-** Suitable for 50 to 125 mm or bigger borewell.
- **Suction Lift :-** Upto 80 Metres DLWL (Jet Setting Depth).
- **Type :-** Twin and Packer type design.
- **Installation :-** Vertical or Horizontal mounting of Monoset Pump.
- **Liquid :-** Clear water.
- **Rotation :-** Clockwise when viewed from motor end.

Electric Motor

- TEFC / DP, SCR, 2 Pole (3000 RPM Syn. speed) Electric motor ,415V, 3 phase and 225 V, 1 Phase, 50Hz, AC supply and suitable for ambient temperature upto 40°C.
- Special motor with different enclosures, supply voltages, frequency and ambient can be offered on request.

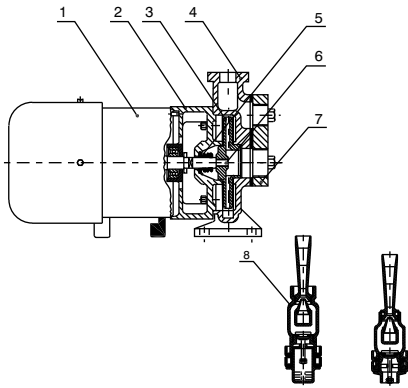
CONSTRUCTION



Vertical / Horizontal Mounting 1 Phase Monoset Pump (Twin Type)

No.	PART	MATERIAL
1	Motor	–
2	Adaptor	Graded Cast Iron
3	Impeller	Bronze
4	Flange Bracket	Graded Cast Iron
5	Shaft	Stainless Steel (AISI 410)
6	Mechanical Seal	–
7	Volute Casing	Graded Cast Iron

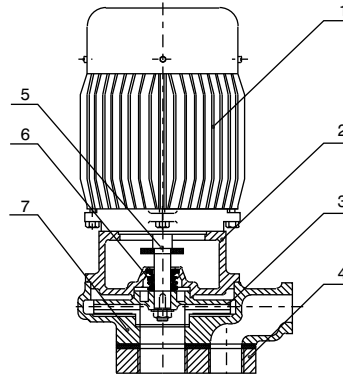
CONSTRUCTION



Vertical / Horizontal Mounting 1 Phase Monoset Pump (Packer Type)

No.	PART	MATERIAL
1	Motor	–
2	Adaptor	Graded Cast Iron
3	Impeller	Bronze
4	Volute Casing	Graded Cast Iron
5	Mechanical Seal	–
6	Shaft	Stainless Steel (AISI 410)
7	Flange Bracket	Graded Cast Iron
8	Jet Assembly	–

CONSTRUCTION



Vertical Mounting 3 Phase Monoset Pump (Packer Type)

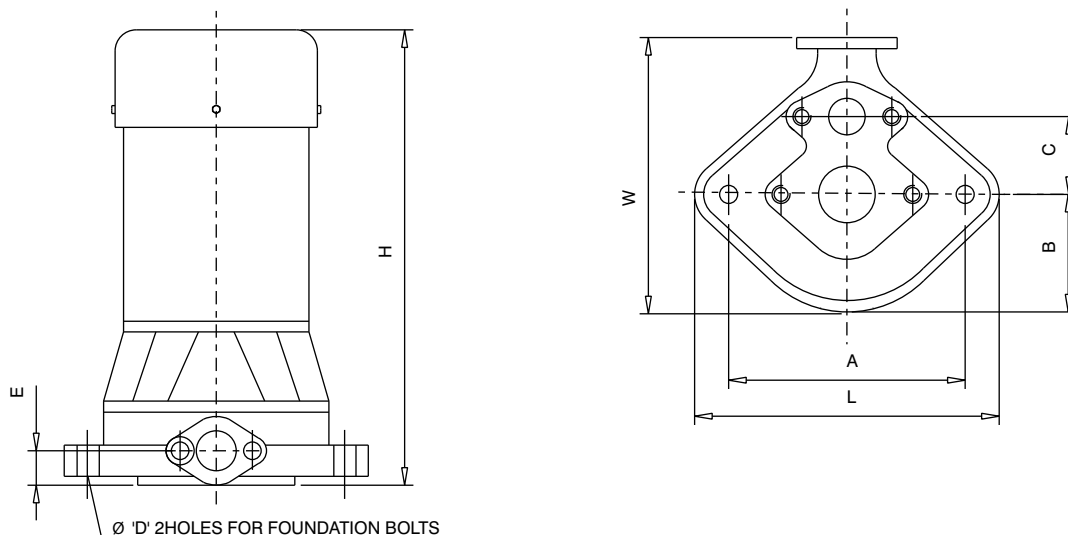
No.	PART	MATERIAL
1	Motor	–
2	Adaptor	Graded Cast Iron
3	Impeller	Bronze
4	Flange Bracket	Graded Cast Iron
5	Shaft	Stainless Steel (AISI 410)
6	Mechanical Seal	–
7	Volute Casing	Graded Cast Iron

PERFORMANCE CHART

Rating	Motor kW (HP)	Min. Clear Borewell Dia. in mm	Pipe Connections in mm			Operating Pressure in kg/sq. cm. (Mts.)	DLWL* In Meters													
			Suction	Pressure	Delivery		9	12	15	18	21	24	27	30	33	36	39	42	45	
							Discharge in LPH													
JCTH052B	0.37 / 0.5	100	32	25	20	1.0 (10)	1500	1270	1050	830	610	400								
JM12L	0.75 / 1.0	100	32	25	25	1.6 (16)	2500	2300	2000	1700	1400	1100	800							
JCTM12A / V	0.75 / 1.0	100	32	25	25	1.6 (16)			1400	1230	1070	920	760	600	450					
JCTM12B/V/HTM12B/V	0.75 / 1.0	100	32	25	25	1.6 (16)			1300	1140	1000	850	700	550	400					
JTM1	0.75 / 1.0	100	32	25	25	1.6 (16)			1450	1380	1260	1020	720	570	460	370				
JCTM12BH	0.75 / 1.0	100	32	25	25	1.6 (16)			1250	1130	1000	880	760	630	520	390	270			
JCTM12H/V/JM12H/ JM12HA	0.75 / 1.0	100	32	25	25	1.6 (16)			1350	1200	1070	930	800	680	550	430	300			
JPM1/V	0.75 / 1.0	100	32	25	25	1.6 (16)			1460	1300	1140	980	825	660	500					
JH12L	0.75 / 1.0	115	40	32	25	1.6 (16)	2800	2530	2240	1900	1570	1230	1000							
JCTH12BL/V/HTH12BL/V JCTH12CL/V/HTH12CL/V	0.75 / 1.0	115	40	32	25	1.4(14)	2100	2000	1900	1600	1250	1030								
JCTH12A/V	0.75 / 1.0	115	40	32	25	1.4 (14)			1650	1460	1280	1100	900	700	550					
JCTH12B/V/HTH12B/V JCTH12C/V/HTH12C/V	0.75 / 1.0	115	40	32	25	1.4 (14)			1550	1370	1190	1020	840	670	500					
JPH1V	0.75 / 1.0	115	40	32	25	1.4 (14)			1650	1480	1310	1150	980	820	660	500				
JL12/JL12HO	0.75 / 1.0	80	25	25	25	1.6 (16)	1200	1050	910	760	620	480	350							
JCP12A	0.75 / 1.0	50@	32	25	25	1.6 (16)	1700	1430	1200	920	660	400								
JCP12	0.75 / 1.0	80@	40	32	25	1.6 (16)	2000	1700	1400	1100	790	500								
JM112	0.82 / 1.1	100	32	25	25	1.6 (16)			1440	1270	1100	950	800	620	470					
JCTM1.52L	1.1 / 1.5	100	32	25	25	2.8 (28)				1700	1520	1340	1120	900	700	500				
JCTH1.52L	1.1 / 1.5	115	40	32	25	2.8 (28)				2100	1900	1700	1500	1300	1100	900	700			

Rating	Motor kW (HP)	Min. Clear Borewell Dia. in mm	Pipe Connections in mm			Operating Pressure in kg/sq. cm. (Mts.)	DLWL* In Meters															
			Suction	Pressure	Delivery		21	24	27	30	33	36	39	42	45	48	51	54	57	60	66	
							Discharge in LPH															
JCTM1.52M	1.1 / 1.5	100	32	25	25	2.8 (28)	1250	1200	1100	1000	870	740	600	470	350	250	200					
JCTM1.52H/V	1.1 / 1.5	100	32	25	25	2.8 (28)				800	740	670	610	550	490	430	360	300				
JCTM1.52BH	1.1 / 1.5	100	32	25	25	2.8 (28)			800	730	660	600	530	460	400	330	275					
JCTH1.52BH/V	1.1 / 1.5	115	40	32	25	2.8 (28)				800	730	670	600	540	480	420	360	300				
JCTM22H	1.5 / 2.0	100	32	25	25	3.3 (33)				820	770	710	650	590	530	480	420	360	300	240		
JH32 (3Ph)	2.2 / 3.0	125	50	40	32	3.0 (30)				1800	1630	1470	1320	1150	980	820	660	500				

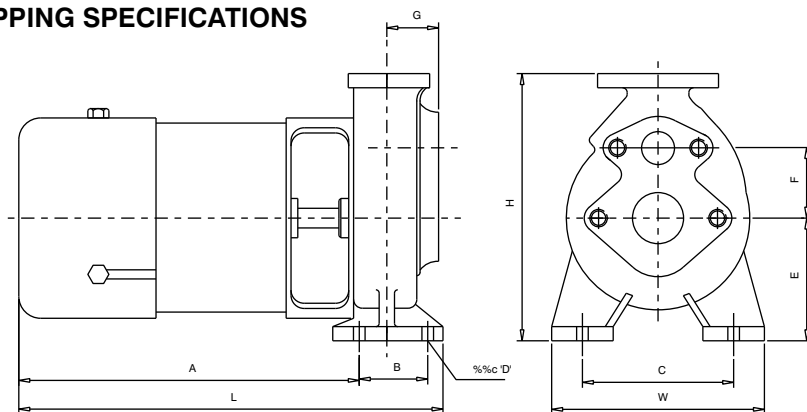
DIMENSIONS & SHIPPING SPECIFICATIONS



Rating	Dimensions (mm)								Shipping Specification		
	A	B	C	D	E	L	W	H	Net Weight Kg	Gross Weight Kg	Volume in Cu.M.
JCTH 052B	188	81	70	12	32	210	210	370	19.7	22.95	0.0550
JL 12	195	130	70	14	32	210	220	375	20	22	0.0420
JCTM 12A	212	92	70	12	32	235	230	427	27.7	31.25	0.0608
JCTM 12H	212	92	70	12	32	235	230	427	27.7	31.25	0.0608
JPM 1	212	98	70	12	32	234	230	424	24.5	28.90	0.0608
JCTM 12B	212	92	70	12	32	235	230	412	26.7	30.25	0.0580
JCTM 12BH	212	92	70	12	32	235	230	412	26.7	30.00	0.0580
JCTH 12A	212	92	70	12	32	235	230	427	27.7	31.25	0.0608
JCTH 12B	212	92	70	12	32	235	230	412	26.7	30.25	0.0583
JCTH 12C	212	92	70	12	32	235	230	412	26.7	30.25	0.0583
JCTM 1.52L	254	105	70	14	32	280	265	473	35.2	40.65	0.0925
JCTH 1.52L	254	105	70	14	32	280	265	473	35.2	40.65	0.0925
JCTM 1.52M	254	105	70	14	32	280	265	473	35.2	40.65	0.0925
JCTM 1.52H	254	105	70	14	32	280	265	473	35.2	40.65	0.0925
JCTM 1.52BH	229	100	70	12	32	254	245	441	29.3	34.50	0.0909
JCTH 1.52BH	229	100	70	12	32	254	245	441	29.3	34.50	0.0909
JCTM 22H	272	204	70	14	32	300	292	494	41.7	47.15	0.0925
JPM1V	212	92	70	12	25	235	230	405	19.36	28.38	0.0538
JPH1V	212	92	70	12	25	235	230	405	19.36	28.5	0.0538
JCTM1.52HV	247	105	70	12	32	275	262	425	21.14	32.4	0.0848
JCTH1.52HV	247	105	70	12	32	275	262	425	21.14	32.52	0.0848
JCTM12AV	212	92	70	12	25	235	230	380	18.44	26.3	0.049
JCTM12HV	212	92	70	12	25	235	230	380	18.44	26.3	0.049
JCTH12AV	212	92	70	12	25	235	230	380	18.44	26.48	0.049
JCTM12BV	212	92	70	12	25	235	230	390	17.38	25.3	0.049
JCTM12BHV	212	92	70	12	25	235	230	390	17.38	25.3	0.049
JCTH12BHV	212	92	70	12	25	235	230	390	17.38	25.48	0.049
JCTH12BLV	212	92	70	12	25	235	230	390	17.38	25.48	0.049
JCTH12CV	212	92	70	12	25	235	230	390	17.38	25.44	0.049
JCTH12CLV	212	92	70	12	25	235	230	390	17.38	25.44	0.049

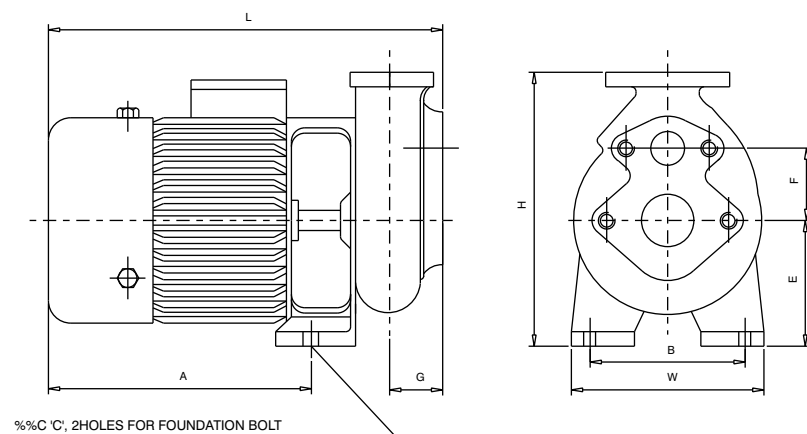
All flanges are with BSP threads.

DIMENSIONS & SHIPPING SPECIFICATIONS



Rating	Dimensions (mm)										Shipping Specifications		
	A	B	C	D	E	F	G	L	W	H	Net Weight Kg.	Gross Weight Kg.	Volume Cu. M.
JCP12A	307	70	140	14	112	70	33	395	190	250	21	23.5	0.042
JCP12	307	70	140	14	112	70	33	395	190	250	21	23.5	0.042
JM112	307	70	140	14	112	70	33	395	190	250	21	23.5	0.042
JL12HO	307	70	140	14	112	70	33	395	190	250	21	23.5	0.042
HTM 12B	416	45	138	12	116	70	30	432	180	262	28.2	31.65	0.058
HTH 12BL	416	45	138	12	116	70	30	432	180	262	28.2	31.65	0.058
HTH 12CL	416	45	138	12	116	70	30	432	180	262	28.2	31.65	0.058
HTM12BV	345	45	138	12	116	70	30	400	180	262	18.26	27.24	0.0498
HTH12BV	345	45	138	12	116	70	30	400	180	262	18.26	27.24	0.0498
HTH12BVL	345	45	138	12	116	70	30	400	180	262	18.26	27.24	0.0498
HTH12CV	345	45	138	12	116	70	30	400	180	262	18.26	27.24	0.0498
HTH12CVL	345	45	138	12	116	70	30	400	180	262	18.26	27.24	0.0498

DIMENSIONS & SHIPPING SPECIFICATIONS



Rating	Dimensions (mm)									Shipping Specifications		
	A	B	C	E	F	G	L	W	H	Net Weight Kg.	Gross Weight Kg.	Volume Cu. M.
JM12L	220	115	14	100	70	31	310	150	230	23	25	0.042
JM12H	220	115	14	100	70	31	310	150	230	23	25	0.042
JH12L	220	115	14	100	70	31	310	150	230	23	25	0.042

All flanges are with BSP threads.

TWO STAGE CENTRIFUGAL JET PUMPS



Crompton Greaves, Two Stage Centrifugal Jet Pump is designed specially to lift water from underground water resources, with high efficiency. Unique designs, use of latest technology, strict quality control checks, make the product highly reliable, efficient and requires minimum maintenance.

Features

- The pump has two stages arranged in series with both the stage impellers mounted on the same shaft.
- The impellers are located back to back for minimum axial thrust.
- Easy to install, horizontal or vertical

- No moving parts inside the bore-well.
- High reliability.
- Requires minimum floor area.
- Good quality Internal mounted mechanical seal.
- Suitable for deep borewells.

Applications

- Bungalows, hotels, buildings.
- Lawn sprinklers.
- Industries.
- Car washing.
- Small farms.
- Garages, clubs.

Standard Specifications

- **Range** : 0.75 to 1.5 kW (1.0 to 2.0 HP).
- **Supply** : 225 Volts, 50Hz, AC, 1 phase.
- **Pipe size** : 32 x 25 x 25 mm & 40 x 32 x 25 mm.
- **Liquid** : Clear water.
- **Suction Lift** : Upto 80 Metres DLWL (Jet Setting Depth).
- **Capacity** : Upto 1360 LPH.
- **Direction of Rotation** : Clockwise when viewed from motor end.

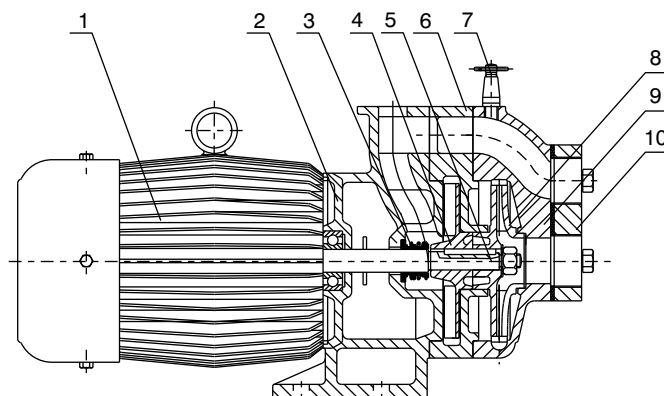
Electric Motor

- TEFC, SCR , 2 Pole Motor for Cap. start and run (PSC) type, 225 V, 1 phase, 50 Hz, AC supply with class 'B' Insulation.

Material of Construction

- Suction and delivery volute casing made of graded cast iron.
- Closed type impeller made of graded C. I. and star impeller of bronze, both dynamically balanced.
- Stainless steel shaft for prevention from rust and corrosion.
- Good quality internal mounted mechanical seal.
- Jet assembly, comprising jet body, nozzle and venturi-made of gunmetal accurately designed for maximum efficiency.
- Spring loaded foot valve made of gunmetal specially designed to work, efficiently fitted to jet assembly as an integral unit.
- Pressure regulating valve, spring loaded and hydraulically actuated diaphragm to avoid surge in pipeline. Accurate and reliable pressure setting is possible with the help of pressure gauge provided with the valve.

CONSTRUCTION



No.	PART	MATERIAL
1	Motor	–
2	Adaptor	Graded Cast Iron
3	Mechanical Seal	–
4	Star Impeller	Bronze
5	Shaft	Stainless Steel (AISI 410)
6	Delivery Volute Casing	Graded Cast Iron
7	Air Cock	Brass
8	Impeller	Graded Cast Iron
9	Suction Volute Casing	Graded Cast Iron
10	Flange Bracket	Graded Cast Iron

PERFORMANCE CHART

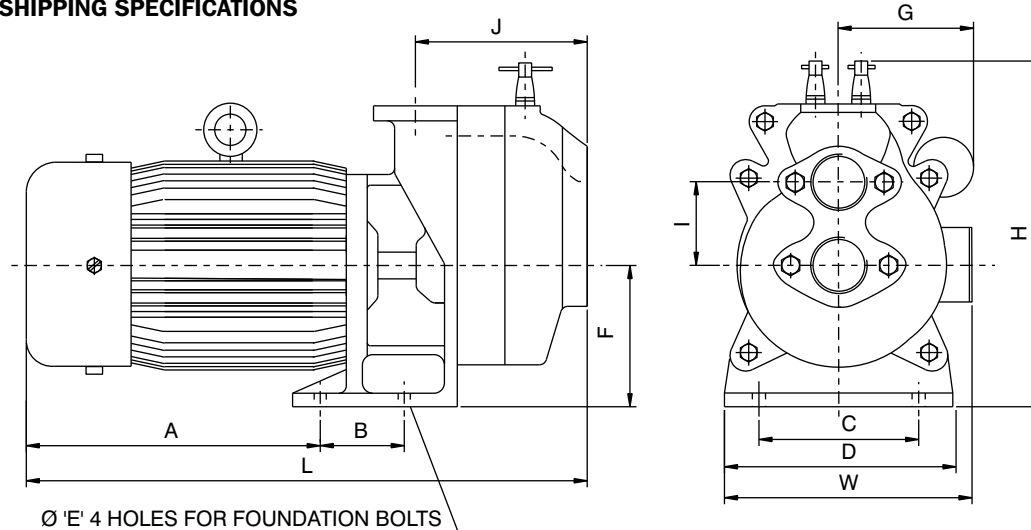
Rating	Motor kW (HP)	Minimum Clear Bore Dia. in mm	Pipe Connections (mm)			Operating Pressure in kg/cm2 (m.)	DLWL * in Metres						
							20	30	40	50	60	70	80
			Suction	Pressure	Delivery		Discharge in LPH						
JM 1.52T	1.1 (1.5)	100	32	25	25	2.2 (22)	1170	1100	870	600	300		
JH 1.52T	1.1 (1.5)	115	40	32	25	2.2 (22)	1200	1150	1080	960	600	330	
JM 22T	1.5 (2.0)	100	32	25	25	2.4 (24)	1170	1140	1050	720	450	240	
JH 22T	1.5 (2.0)	115	40	32	25	2.4 (24)	1200	1150	1080	980	820	570	300

Rating	Motor kW (HP)	Minimum Clear Bore Dia. in mm	Pipe Connections (mm)			Operating Pressure in kg/cm2 (m.)	DLWL * in Metres														
			Suction	Pressure	Delivery		15	18	21	24	27	30	33	36	39	42	45	48	51		
							Discharge in LPH														
TJM12	0.75/1.0	115	32	25	25	1.8 (18)	1360	1310	1260	1250	1070	930	780	660	540	450	360	260	180		

Notes :-

- The above performance is based on rated voltage (220+6%-15% for 1 Phase) and rated frequency (50Hz±3%).
- The above performance is subjected to tolerances as per applicable standards.
- Pipe sizes mentioned in mm are nearest conversion of inches, but actual pipe threadings are provided as per 'BSP' standard.
- Please ensure Minimum Submergence of Jet assembly to 2 meters or 10% of Jet setting Depth (Suction Lift) whichever is more from steady water level for above performance.
- Operating pressure indicated is minimum pressure required for successful operation of Jet Pump.
- DLWL means depth to low water level. DLWL is also known as Jet Setting depth or suction lift (i.e. Vertical distance from monoset pump to steady water level).
- For horizontal pump the performance given is applicable if it is installed within 1.5 meters from the borewell.

DIMENSIONS & SHIPPING SPECIFICATIONS



Rating	Dimensions (mm)												Shipping Specifications		
	A	B	C	D	E	F	G	I	J	L	W	H	Net Weight Kg.	Gross Weight Kg.	Volume Cu. M.
JM1.52T	245	60	120	170	14	110	140	70	127	435	225	286	42.5	61.0	0.098
JH1.52T	245	60	120	170	14	110	140	70	127	435	225	286	42.5	61.0	0.098
JM22T	245	70	120	180	14	120	140	70	131	455	230	291	47.0	65.5	0.098
JH22T	245	70	120	180	14	120	140	70	131	455	230	291	47.0	65.5	0.098

All flanges are with 'BSP' threads.

SELF PRIMING CENTRIFUGAL JET PUMP



Crompton Greaves Self Priming Centrifugal Jet Pumps are designed for application in Open and Shallow Wells, Sumps. Years of experience, superior design and better manufacturing techniques have resulted into efficient, robust and sleek pump. Strict quality assurance standards during the total process assures trouble free and reliable operation requiring minimum maintenance.

Features

- High performance as compared to conventional Centrifugal and Mini Monoset Pumps.
- Self priming upto 8.0 metres at mean sea level.
- Optimally designed for higher efficiency in wide range of operation.
- Fitted with Thermal Overload Protector (T.O.P.)

- No jamming-Centrifugal Impeller with adequate clearance.
- Unique Motor Design-Cap Start and Run (PSC Motor) avoiding centrifugal switch.
- Suitable for wide voltage operation - 160 to 240 V.
- Non overloading characteristics through out the range.
- Extruded aluminum motor body and two tone colour-Better aesthetics.
- Provided with handle - Ease in Handling.

Applications

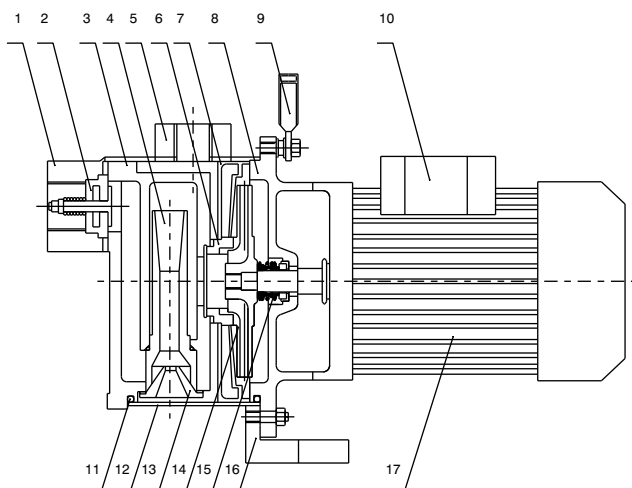
Used For Water Supply to :

- Residential Bungalows, Hotel.
- Storage Water Tanks.
- Small Farms.
- Lawns and Gardens.
- General Industries.
- Water Circulating Systems

Standard Specifications

- **Range** : 0.37 to 0.75 kW (0.5 to 1.0 HP)
- **Pipe Size** : 25 x 25 mm.
- **Speed** : 3000 RPM (Syn.)
- **Total Head** : Upto 36 metres.
- **Capacity** : Upto 60 LPM.
- **Liquid** : Clear water
- **Motor** : TEFC suitable for 220V, 1 Ph,50Hz, AC supply and suitable for ambient temperature upto 40°C

CONSTRUCTION



No.	PART	MATERIAL
1	Suction Flange	Graded Cast Iron
2	NRV Assembly	-
3	Adaptor	Graded Cast Iron
4	Venturi	Plastic
5	Delivery Flange	Graded Cast Iron
6	Neck Ring	Plastic
7	Diffuser	Diffuser Plastic
8	Adaptor	Graded Cast Iron
9	Handle	M.S.
10	Capacitor	-
11	'O' Ring	Nitrile Rubber
12	Outer Sheel	Stainless Steel
13	Nozzel	Plastic
14	Impeller	Stainless Steel
15	Mechanical Seal Unit	-
16	Leg	Graded Cast Iron
17	Motor	-

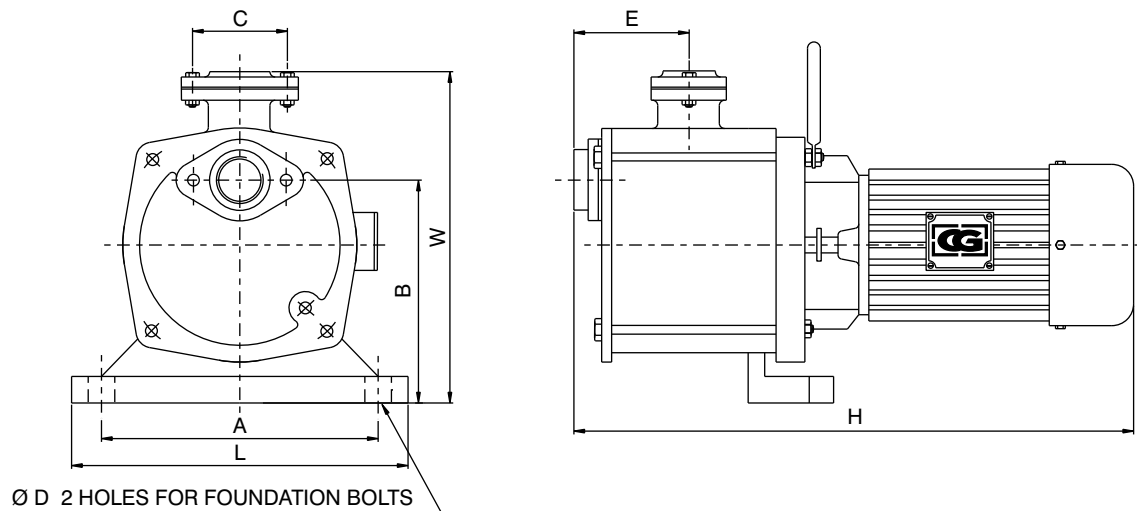
PERFORMANCE

Rating	Motor kW (HP)	Pipe Size Suc x Del (mm)	Total Head in Metres										
			6	9	12	15	18	21	24	27	30	33	36
			Discharge in LPM										
SWJ0.5	0.37 (0.5)	25 X 25	60	58	56	53	48	41	32	22	10		
SWJ0.5SS	0.37 (0.5)	25 X 25	60	58	56	53	48	41	32	22	10		
SWJ05MINI	0.37 (0.5)	25 X 25		27		26.5	23	16	10.5	5.5			
SWJ1	0.75 (1.0)	25 X 25						51	50	46	36	26	15
SWJ1SS	0.75 (1.0)	25 X 25						51	50	46	36	26	15

Notes:-

1. The above performance is based on rated voltage (220+6%-15% for 1 Phase) and rated frequency (50Hz±3%).
2. The above performance is subjected to tolerances as per relevant Indian Standards.
3. Pipe sizes mentioned in mm are nearest conversion of inches, but actual pipe threadings are provided as per 'BSP' Standards
4. Total head = Static Suction + Static Delivery + Losses in pipes, bends etc.

DIMENSIONS & SHIPPING SPECIFICATIONS



Rating	Dimensions (mm)								Shipping Specifications		
	A	B	C	D	E	L	W	H	Net Weight kg.	Gross Weight kg.	Volume in Cu.M.
SWJ05	140	144	70	14	100	170	200	226	18	20.5	0.0343
SWJ 0.5 SS	121.5	144	-	10	90	165	195	365	12.5	15	0.0283
SWJ 0.5 MINI	107	118	-	10	75	145	170	335	10.5	11.5	0.0146
SWJ1	140	144	70	14	100	170	200	332	22.5	25.95	0.0512
SWJ1.0SS	112	140	-	12	90	145	220	455	17.3	20.58	0.0363

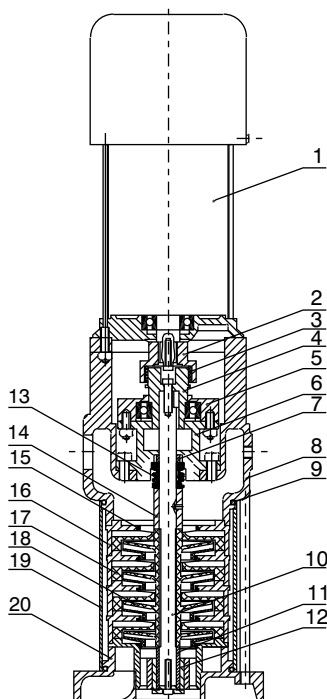
All flanges are with 'BSP' threads.

MULTI STAGE JET CENTRIFUGAL PUMP



Crompton Greaves, Multistage Jet Centrifugal Pumps, are specially designed for robustness, sleekness. Years of experience, superior design and better manufacturing techniques have resulted into development of this pump which is efficient in operation. Strict quality assurance standards during the total process assures trouble free and reliable operation requiring minimum maintenance.

CONSTRUCTION



Features

- Energy efficient pump - higher performance as compared to conventional single stage pump.
- Saving in power consumption - approximately 20% lower consumption compared to pump having similar performance in single stage.
- Unique motor design capacitor start and run (PSC) type eliminating centrifugal switch
- Fitted with thermal overload protector.
- Extruded aluminium motor body - better in aesthetics.
- Pump body in stainless steel - no corrosion.

No.	PART	MATERIAL
1	Motor	–
2	Motor Coupling	Graded Cast Iron
3	Spacer	Natural Rubber
4	Pump Coupling	Graded Cast Iron
5	Bearing Housing	Graded Cast Iron
6	Connecting Piece	Graded Cast Iron
7	Bush	Sintered
8	Adaptor	Graded Cast Iron
9	'O' Ring	Nitrile Rubber
10	Pump Shaft	Stainless Steel

- Impeller and Diffuser in engineering plastic, modular construction for consistency in performance.
- Ease in replacement of mechanical seal without disturbing the centrifugal stage assembly.
- Silent running unique coupling design for smooth power transmission.
- Additional ball bearing and sintered bush bearing provided on pump side to reduce load on motor bearing for increased life.
- Extruded aluminium motor body, S.S. pump body and attractive two tone colour for good aesthetics.
- Suitable for wide voltage operation of 160 to 240V.

Applications

- Bungalows, hotels.
- Residential buildings and flats.
- Small farms.
- Car washing.
- Lawn sprinklers.

Standard Specifications

- **Range** : 0.75 / 1.1 kW (1.0 / 1.5 HP)
- **Pipe Size** : 32 x 25 x 25 mm
- **Min. Bore Well Dia.** : 100 mm
- **DLWL** : 30 to 72 metres.
- **Capacity** : 750 LPH.
- **Liquid** : Clear water
- **No. of Stages** : 4 and 6
- **Speed** : 3000 RPM (SYN).
- **Motor** : TEFC Suitable for 220V, 50Hz, AC supply and for ambient temperature upto 40°C

No.	PART	MATERIAL
11	Sleeve	Stainless Steel
12	Bush	Sintered
13	Mechanical Seal	–
14	Sleeve	Stainless Steel
15	Wearing Ring	Stainless Steel
16	Stage Casing	Stainless Steel
17	Diffuser	Engg. Plastic
18	Impeller	Engg. Plastic
19	Outer Shell	Stainless Steel
20	Pump Casing	Graded Cast Iron

PERFORMANCE CHART

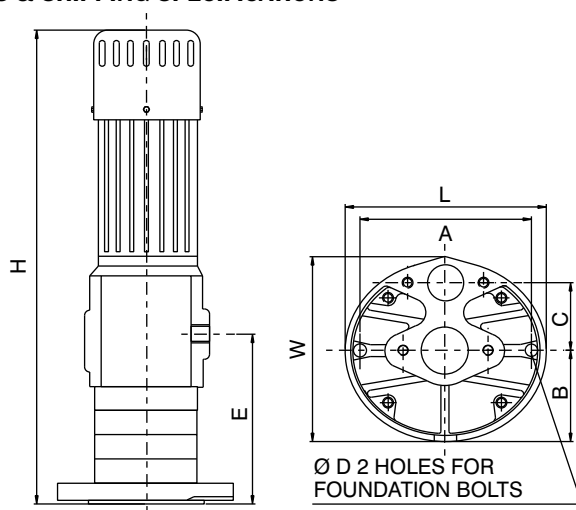
Rating	Motor kW (HP)	Minimum Clear Bore Dia. (mm)	Pipe Connections in mm			Operating Pressure in Kg/cm2 (m)	DLWL* in Metres																			
			Suction	Pressure	Delivery		15	18	21	24	27	30	33	36	39	42	45	48	51	54	60	66	72		78	84
							Discharge in LPH																			
MJM 1H	0.75 (1.0)	100	32	25	25	2.7 (27)							620	590	560	510	430	370	340	300	265					
MJM 1.5H	1.1 (1.5)	100	32	25	25	4.4 (44)							750	740	735	710	695	670	650	590	535	440	350	250		

Notes :-

- The above performance is based on rated voltage (220+6%-15% for 1 Phase) and rated frequency (50Hz±3%).
- The above performance is subjected to tolerances as per applicable standards.
- Pipe sizes mentioned in mm are nearest conversion of inches, but actual pipe threadings are provided as per 'BSP' standard.
- Please ensure Minimum Submergence of Jet assembly to 2 meters or 10% of Jet Setting Depth (Suction Lift) whichever is more from steady water level for above performance.
- Operating pressure indicated is minimum pressure required for successful operation of Jet Pump.
- * DLWL means depth to low water level.

DLWL is also known as Jet Setting depth or suction lift (i.e. Vertical distance from monoset pump to steady water level).

DIMENSIONS & SHIPPING SPECIFICATIONS



Rating	Dimensions (mm)								Shipping Specifications		
	A	B	C	D	E	L	W	H	Net Weight kg.	Gross Weight kg.	Volume in Cu. M.
MJM1H	158	92.5	70	12	251	185	189	682	34.2	38.23	0.078
MJM1.5H	158	92.5	70	12	309	185	189	727	39.9	43.93	0.078

All flanges are with 'BSP' threads.

TWO STAGE CENTRIFUGAL MONOSET PUMP 'TMEP' SERIES



Crompton Greaves introduces Two Stage high head Centrifugal Monoset Pumps in 1 Phase supply suitable to covers a wide range of domestic and smaller agricultural applications.

Features

- Suitable upto 48 mtrs working head.
- Pressure die cast Aluminum body.
- Totally Enclosed Fan Cooled motor with IP 51 construction for better safety.
- Back Pull out Construction.
- SS Pump Shaft with Gun Metal Impellers
- Internally mounted Mechanical Seal.
- Central Delivery Volute with Air cock for easy priming.

Applications

- Water supply for Bungalows, Buildings, Flats, Hotels, Garages, Laundries and Industries.
- Car washing.
- Booster application.
- Small farms.
- Lawn sprinklers.
- Ornamental Fountains.
- Water circulation in solar heater systems.

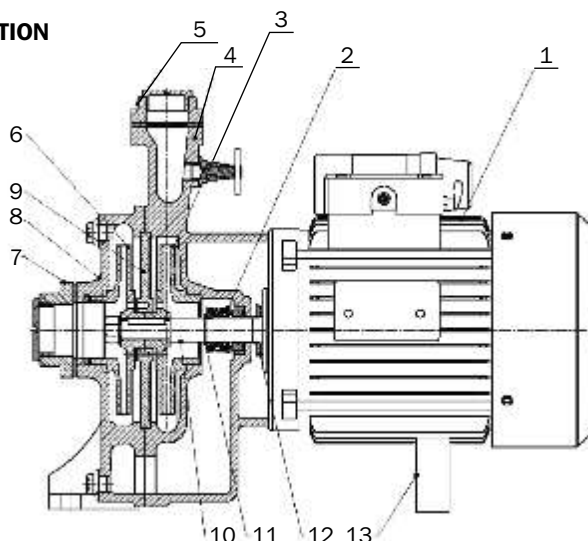
Standard Specifications

- Range : 1.1 kW & 1.5 kW (1.5 & 2.0 HP).
- Supply : 225 Volts, 1 Phase 50 Hz, AC.
- Pipe size : 32 x 25 mm
- Total head : Upto 48 metres.
- Capacity : Upto 155 LPM.
- Liquid : Clear water.
- Rotation : Clockwise as viewed from motor end.
- Operating temperature : Suitable upto 65°C water.

Electric Motor

- TEFC, 2 Pole (3000 RPM Syn. speed) Electric motor ,415V, 3 phase and 225 V, 1 Phase, 50Hz, AC supply and suitable for ambient temperature upto 40°C.
- Special motor with different enclosures, supply voltages, frequency and ambient can be offered on request.

CONSTRUCTION



No.	Part	Material
1.	Motor	-
2.	Mechanical seal	Ceramic+Graphite + Natural Rubber
3.	Delivery Impeller	C. I. FG-200
4.	Delivery volute	C. I. FG-200
5.	Delivery Flange	C. I. FG-200
6.	Suction Impeller	C. I. FG-200
7.	Suction Flange	C. I. FG-200
8.	Suction Volute	C. I. FG-200
9.	Interstage Plate	C. I. FG-200
10.	Shaft	SS 410
11.	Circlip	Spring Steel
12.	Water Deflector	LDEP
13.	Support	Natural Rubber

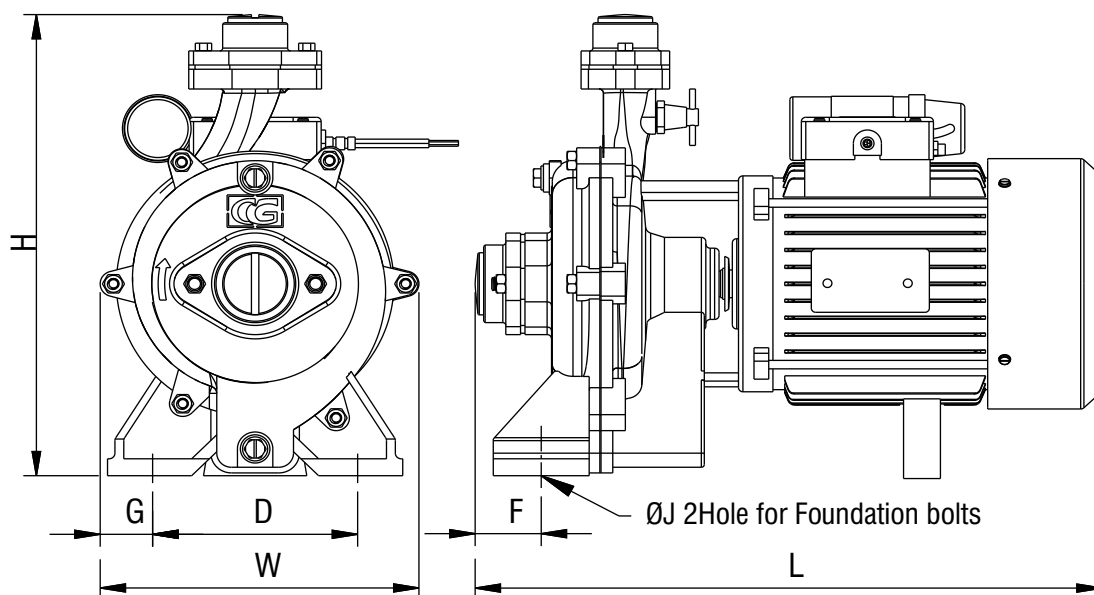
PERFORMANCE CHART

Rating	Motor kW (HP)	Pipe Size Suc. X Del. (mm)	Total Head in Metres														
			16.5	18	19.5	21	24	25.5	27	28.5	30	33	36	39	42	45	48
			Discharge in LPM														
TMEP1.5	1.10 (1.5)	32 x 25	140	139	135	131	121	116	111	105	98	84	70				
TMEP2	1.5 (2.0)	32 x 25				155	150	147	144	139	135	127	118	107	93	74	50

Notes:-

1. The above performance is based on rated voltage (220+6%-15% for 1 Phase) and rated frequency (50Hz+3%).
2. The above performance is subjected to tolerances as per relevant Indian Standards.
3. Pipe sizes mentioned in mm are nearest conversion of inches, but actual pipe threadings are provided as per 'BSP' Standard.
4. Total head = Static Suction + Static Delivery + Losses in pipes, bends etc.

DIMENSIONS & SHIPPING SPECIFICATIONS



Rating	Pump Dimensions (mm)								Shipping Specifications			
	L	W	H	D	G	E	F	J	Qty Packing	Weight in Kg Nett / Qty	Gross / Qty	Volume Cu.M. Master Package
TMEP 1.5	430	200	320	140	35	---	29	14	1	27.40	31.92	0.043
TMEP 2	430	200	320	140	35	---	29	14	1	30.54	35.00	0.043

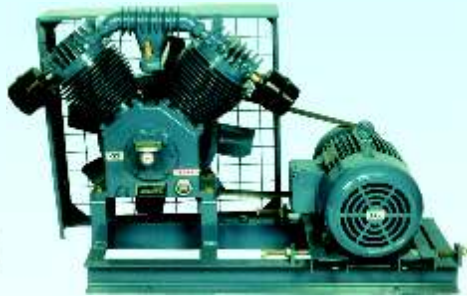
All flanges are with 'BSP' threads.

AIR COMPRESSOR PUMPS

Single Cylinder



Double Cylinder



MB Pump



Applications

- Buildings
- Gardens
- Small farms
- Hotels

Working Principle

The Compressor Pumps work on the principle of difference of two inter-connected water columns, the heavier one, balancing over the lighter one on operation. The compressed air is pumped down into the well and gets mixed with water in the delivery pipe as very fine air bubbles by the air-distributor installed at the end of the air pipe line. This air-water mixture having a low density than the surrounding water column rises in the discharge pipe. On continuation of this process, water is pumped out through the discharge pipe. The hole on the air distributor should be 10 mm or less in diameter for efficient air water mixture. The outlet from the delivery pipe must not be connected to the long conveyance pipes since this will cause hammering when the water is ejected out due to large air pockets formed during the horizontal travel of the air water mixture in the pipe. The Compressor Pumps are selected as a last alternative when other types of pumps are not suitable due to very high depth. These pumps deliver water intermittently and continuous flow of water like other pumps is not expected since water is mixed with air.

Crompton Greaves Compressor Pumps designed for Domestic, Industrial and Agricultural purpose are provided with high operating efficiency compressor and can draw water from depth (from 100ft. to 400ft.). They are assembled with motor which stands for quality and reliability and are manufactured and tested to a high standard of excellence.

These Pumps are sound in design and robust in construction and give satisfactory service with correct installation and normal routine maintenance.

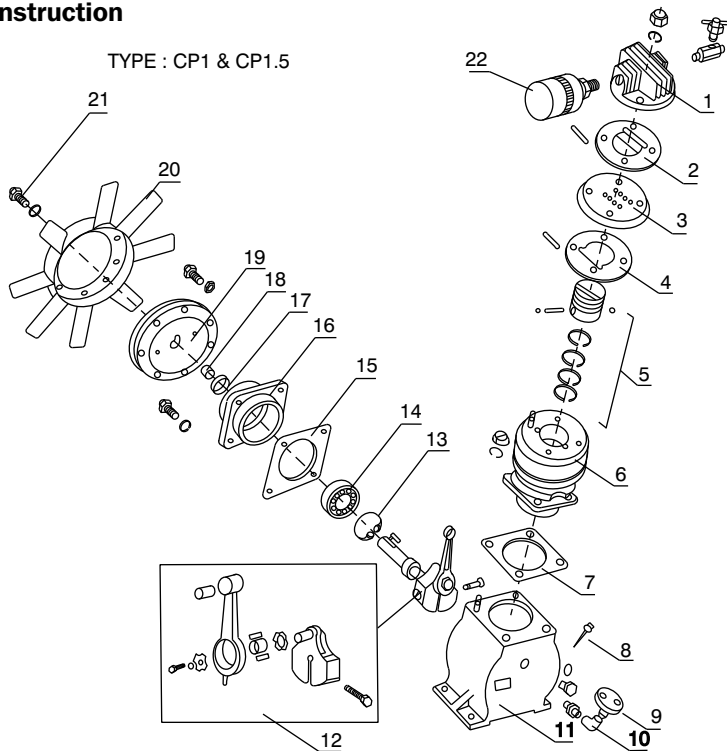
Features

- Motor : Special duty motor suitable for compressor.

- Cylinder : Special cast iron, deep finned for quick heat dissipation.
- Inter / After Cooler: Deep finned aluminium alloy specially designed to keep the temperature low and to minimise the formation of carbon.
- Piston : Automotive type low expansion aluminium alloy.
- Valve Plates : Special stainless steel material for high resistance, high efficiency and for self floating.
- Crank Shafts : Made of carbon steel dynamically balanced with roller bearing for connecting rod big end and deep grooved ball bearings for journals.

Construction

TYPE : CP1 & CP1.5

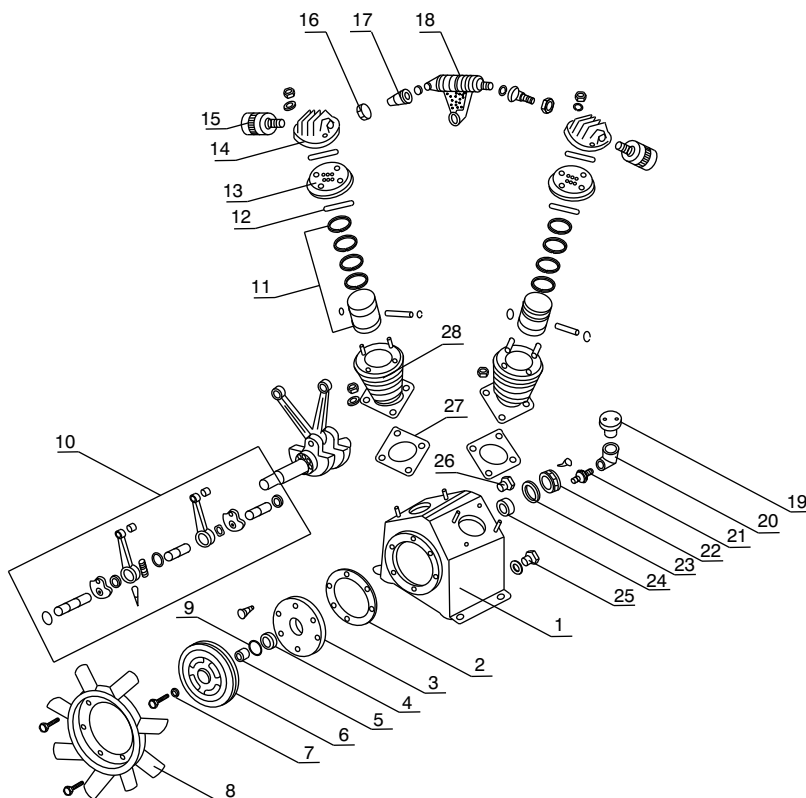


Single Cylinder

No.	PART	MATERIAL
1	Cylinder Head	Graded Cast Iron
2	Cylinder Head Packing	Steel Ferrolite (Metalic)
3	Valve Plate	M.S.
4	Cylinder Packing Round	Steel Ferrolite (Metalic)
5	Piston Assembly	AL
6	Cylinder	Graded Cast Iron
7	Cylinder Gasket	Ferrolite (Non Metalic)
8	Oil Indicator Stick	Plastic
9	Breather Assembly	AL
10	Elbow	G.I.
11	Crank Case	Graded Cast Iron
12	Crank Assembly	Steel Castings
13	Circlip	M. S.
14	Ball Bearing	Stainless Steel
15	Housing Gasket	Ferrolite (Non Metalic)
16	Housing	CI
17	Oil Seal	Nitrile Rubber
18	Spacer Bush	M. S.
19	Fan Pulley	CI
20	Cooling Fan	M. S.
21	End Bolt	M. S.
22	Air Filter Assembly	Plastic

Construction

TYPE : CP-3T / CP-5T

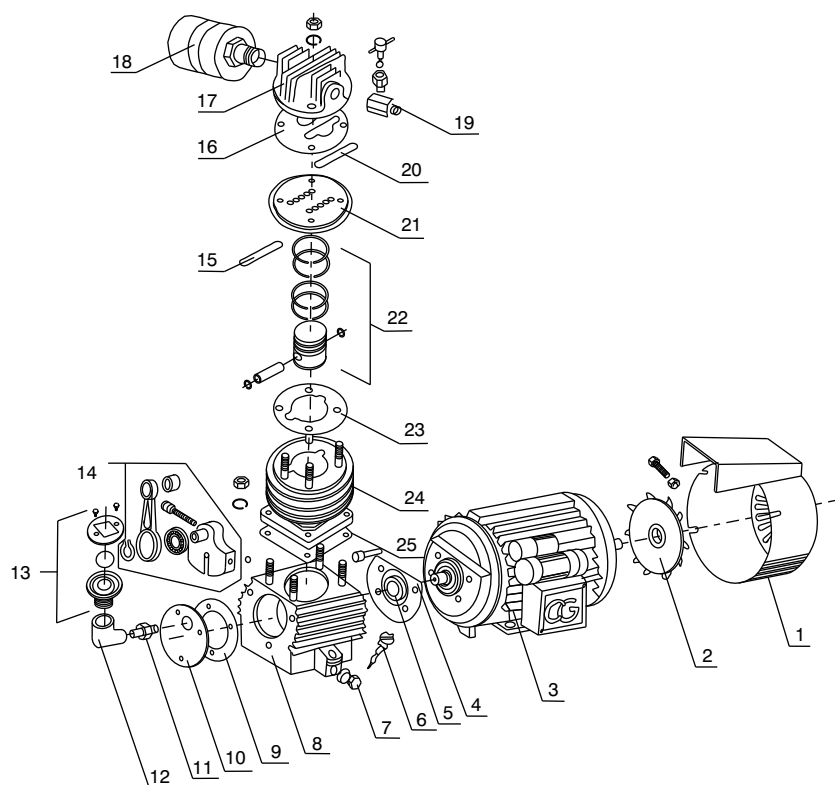


Double Cylinder

No.	PART	MATERIAL
1	Cylinder Head	CI FG 200
2	Housing Gasket Big	Peromonite non metallic Graphited
3	Main Housing	CI FG 150
4	Ball Bearing	Stainless Steel
5	Oil Seal Bush	M. S.
6	Fan Pulley	CI FG 150
7	End Washer	M. S.
8	Cooling Fan	M. S.
9	Oil Seal	Nitrile Rubber
10	Crank Assembly	EN 8 Steel Castings
11	Piston Assembly	AL
12	Valve Blade	S. S.
13	Valve Plate	CI FG 200
14	Cylinder Head	CI FG 200
15	Air Filter Assembly	Plastic
16	Connecting Nut	M. S.
17	Connecting Nipple	M. S.
18	Inter Cooler	Aluminium
19	Breather Assembly	Aluminium
20	Elbow	G. I.
21	Nipple	M. S.
22	End Housing	CI FG 150
23	Housing Gasket Small	Peromonite Non Metallic Graphited
24	Ball Bearing	Stainless Steel
25	Oil Drain Bolt	M. S.
26	Oil Indicator	Aluminium
27	Cylinder Gasket	Peromonite Non Metalic
28	Cylinder	CI FG 200

CONSTRUCTION

TYPE : MCP1 & MCP1.5



MB Pump

No.	PART	MATERIAL
1	Fan Cover	M. S.
2	Cooling Fan	Plastic
3	Motor	CI Body
4	Crank Case Packing	Steel Ferrolite (Metalic)
5	Oil Seal	Nitrile Rubber
6	Oil Dipstick	Plastic
7	Screw	M. S.
8	Crank Case	Graded Cast Iron
9	Breather Cap Gasket	Ferrolite (Non Metalic)
10	Free End Cover	CI
11	Breather Nipple	M. S.
12	Elbow	GI
13	Breather Assembly	AI
14	Crank Assembly	Steel Castings
15	Valve Blade	S.S.
16	Cylinder Head Packing	Steel Ferrolite (Metalic)
17	Cylinder Head	Graded Cast Iron
18	Air Filter Assembly	Plastic
19	Air Cock Assembly	Brass
20	Valve Blade	S. S.
21	Valve Plate	M. S.
22	Piston Assembly	AI
23	Cylinder Packing Round	Steel Ferrolite (Metalic)
24	Cylinder	Graded Cast Iron
25	Cylinder Gasket	Ferrolite (Non Metalic)

Keys for Rating Reference

1. Prefix 'M' denotes monoblock compressor pump otherwise it is coupled.
2. The figure denotes HP of the motor to be used. All are in 4 poles.
3. Last letter 'T' if mentioned indicates twin cylinder type otherwise it is single cylinder.
4. All rating are in 1 Phase (220V) except for ratings where (3 PH) is mentioned after rating reference.

TECHNICAL DATA

Rating	Power kW (HP)	No. of Cylinder	COM. RPM	Press. Kg/cm ²	Belt Size	Inlet Pipe	Outlet Pipe	Jet Pipe
CP 0.5	0.37 (0.5)	1	675	5	B-41	1/2"	1"	1"
CP 1	0.75 (1.0)	1	1200	7	B-37	1/2"	1"	1"
CP 1.5	1.1 (1.5)	1	930	10	B-38	1/2"	1"	1"
CP 2.0	1.5 (2.0)	1	930	7	B-42	1/2"	1 1/4"	1 1/4"
OCP 1.0	0.75 (1.0)	1	1375	7	—	1/2"	1"	1"
OCP 1.5	1.1 (1.5)	1	1375	7	—	1/2"	1"	1"
MCP 0.5	0.37 (0.5)	1	1425	5	—	1/2"	1"	1"
MCP 1	0.75 (1.0)	1	1440	7	—	1/2"	1"	1"
MCP 1.5	1.1 (1.5)	1	1440	7	—	1/2"	1"	1"
CP 1.5T	1.1 (1.5)	2	612	9	B-46	1/2"	1 1/4"	1 1/4"
CP 2T	1.5 (2.0)	2	570	9	B-54	1/2"	1 1/4"	1 1/2"
CP 3T (3PH)	2.2 (3.0)	2	725	7	B-54	1/2"	1 1/2"	1 1/2"
CP 5T (3PH)	3.7 (5.0)	2	925	7	B-54	1/2"	1 1/2"	1 1/2"

PERFORMANCE CHART

Rating	Motor kW (HP)	Pumping Height *	Lifting Height **	Depth in Metres				
				30	45	60	90	120
				Discharge in LPH				
CP 0.5	0.37 (0.5)	25%	75%	750	675	575		
		50%	50%	900	750	650		
		75%	25%	2000	1500	1375		
CP 1	0.75 (1.0)	25%	75%	1500	1350	1150	1000	900
		50%	50%	1800	1500	1300	1100	1000
		75%	25%	4000	3000	2750	2500	2400
CP 1.5	1.1 (1.5)	25%	75%	1700	1550	1300	1100	1000
		50%	50%	2100	1700	1450	1200	1100
		75%	25%	4150	3100	2900	2600	2500
CP 2.0	1.5 (2.0)	25%	75%	1900	1725	1500	1300	1175
		50%	50%	2300	1900	1700	1425	1350
		75%	25%	4400	3350	3125	2850	2700
OCP 1.0	0.75 (1.0)	25%	75%	1550	1400	1200	1050	950
		50%	50%	1850	1550	1350	1150	1050
		75%	25%	4050	3050	2800	2550	2450
OCP 1.5	1.1 (1.5)	25%	75%	1750	1600	1350	1150	1050
		50%	50%	2150	1750	1500	1250	1150
		75%	25%	4200	3150	2950	2650	2550
MCP 0.5	0.37 (0.5)	25%	75%	775	700			
		50%	50%	925	775			
		75%	25%	2025	1525			
MCP 1	0.75 (1.0)	25%	75%	1550	1400	1200	1050	950
		50%	50%	1850	1550	1350	1150	1050
		75%	25%	4050	3050	2800	2550	2450
MCP 1.5	1.1 (1.5)	25%	75%	1750	1600	1350	1150	1050
		50%	50%	2150	1750	1500	1250	1150
		75%	25%	4200	3150	2950	2650	2550
CP 1.5T / CP 1.5TM	1.1 (1.5)	25%	75%	1800	1650	1400	1200	1050
		50%	50%	2200	1800	1550	1300	1150
		75%	25%	4250	3200	3000	2650	2550
CP 2T / CP 2TM	1.5 (2.0)	25%	75%	3200	2900	2600	2050	1850
		50%	50%	3800	3200	3000	2300	2100
		75%	25%	8200	6200	5700	5200	4900
CP 3T (3PH)	2.2 (3.0)	25%	75%	4500	4100	3600	3100	2600
		50%	50%	5400	4500	3900	3300	3000
		75%	25%	12000	9000	8500	8000	7600
CP 5T (3PH)	3.7 (5.0)	25%	75%	7500	7000	6000	5000	4500
		50%	50%	9000	7500	6500	5500	5000
		75%	25%	20000	15000	14500	13750	13500

* Pumping Height is the vertical distance between water level and the centre of the air distributor.

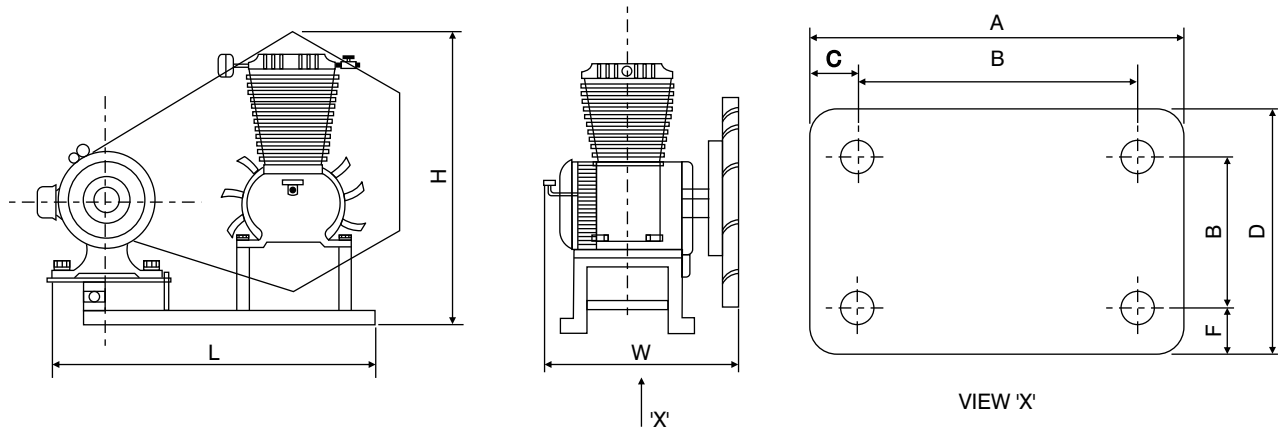
** Lifting Height is the vertical distance between water level and centre of water outlet pipe.

Note : Discharge is only indicative. Actual discharge depends on availability of water in borewell based on strength of water source, submersion of jet, air leakage through pipes etc. and ratio of pumping height to lifting height.

Keys for Rating Reference

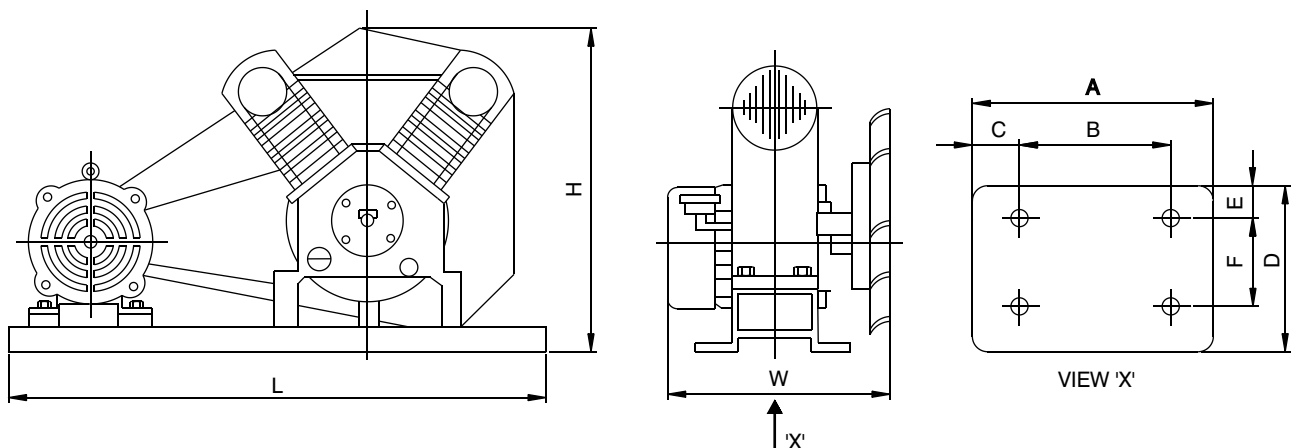
1. Prefix 'M' denotes monoblock compressor pump otherwise it is coupled.
2. The figure denotes HP of the motor to be used. All are in 4 poles.
3. Last letter 'T' if mentioned indicates twin cylinder type otherwise it is single cylinder.
4. All rating are in 1 Phase (220V) except for ratings where (3 PH) is mentioned after rating reference.
5. Prefix 'O' denotes Oil free Compressor Pump

DIMENSIONS & SHIPPING SPECIFICATIONS



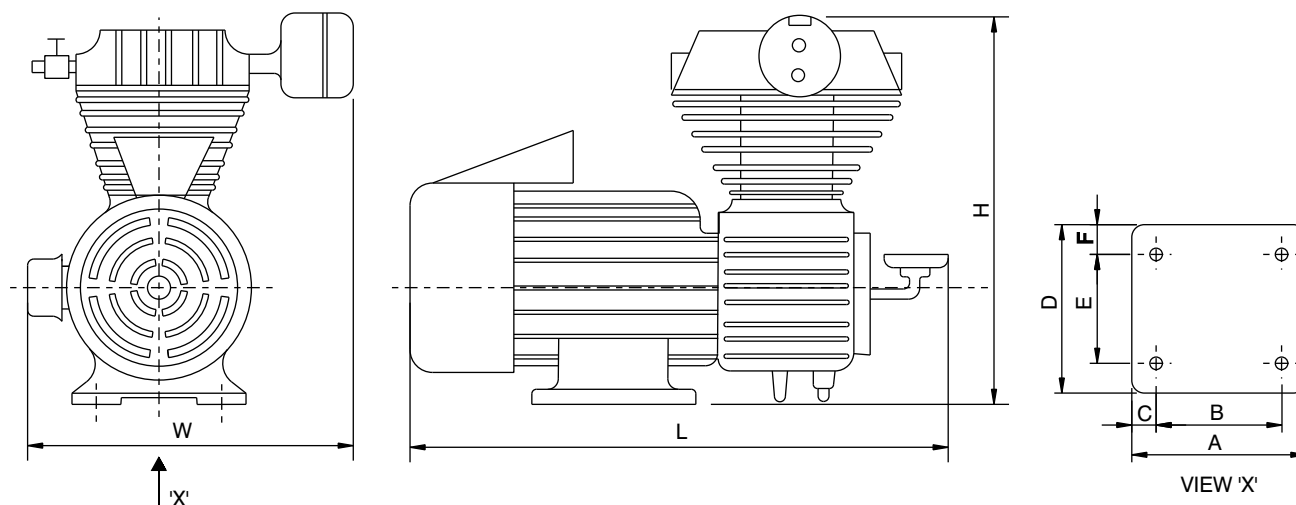
Rating	Dimensions (mm)									Shipping Specifications		
	A	B	C	D	E	F	L	W	H	Net Weight Kg.	Gross Weight Kg.	Volume Cu. M.
CP 0.5	203	160	15	142	112	21.5	620	320	480	53.60	84.50	0.267
CP 1.0	203	160	15	142	112	21.5	620	320	480	53.60	84.50	0.267
CP 1.5	203	160	15	142	112	21.5	620	320	480	58.20	93.25	0.267
CP 2.0	390	330	30	230	190	20.0	540	340	500	77.80	100.80	0.198
OCP 1.0	560	450	55	270	240	15.0	700	420	500	55.00	80.00	0.193
OCP 1.5	560	450	55	270	240	15.0	700	420	500	57.00	82.00	0.193

DIMENSIONS & SHIPPING SPECIFICATIONS



Rating	Dimensions (mm)									Shipping Specifications		
	A	B	C	D	E	F	L	W	H	Net Weight Kg.	Gross Weight Kg.	Volume Cu. M.
CP 1.5T/ CP 1.5TM	700	600	50	230	190	17	810	410	480	49.7	72	0.277
CP 2T/ CP 2TM	700	600	50	230	190	17	810	410	480	49.7	72	0.277
CP 3T(3 PH)	875	580	147.5	300	250	17	1080	460	626	84	118	0.438
CP 5T (3PH)	875	580	147.5	300	250	17	1080	460	626	84	118	0.438

DIMENSIONS & SHIPPING SPECIFICATIONS



Rating	Dimensions (mm)									Shipping Specifications		
	A	B	C	D	E	F	L	W	H	Net Weight Kg.	Gross Weight Kg.	Volume Cu. M.
MCP 0.5	105	75	15	195	155	20	410	310	330	27.2	45.7	0.094
MCP 1	203	160	15	142	112	21.5	480	320	330	40.0	59.0	0.134
MCP 1.5	203	160	15	142	112	21.5	480	320	330	44.8	64.3	0.134

All flanges are with 'BSP' threads.

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.

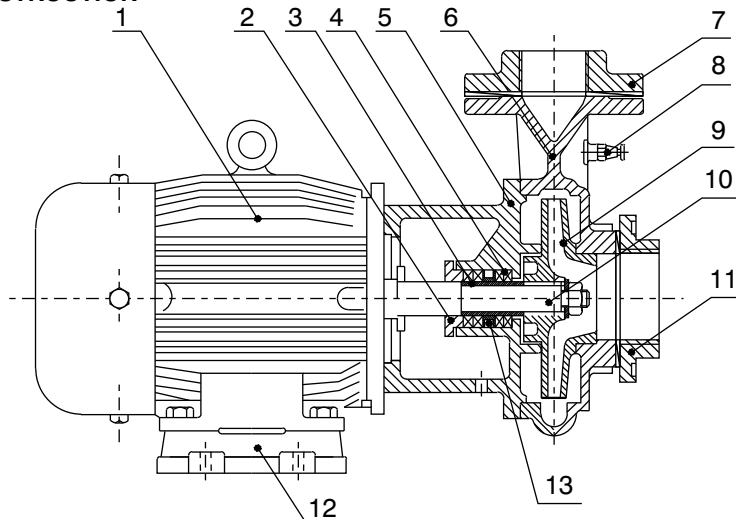
Standard Specifications

- **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.

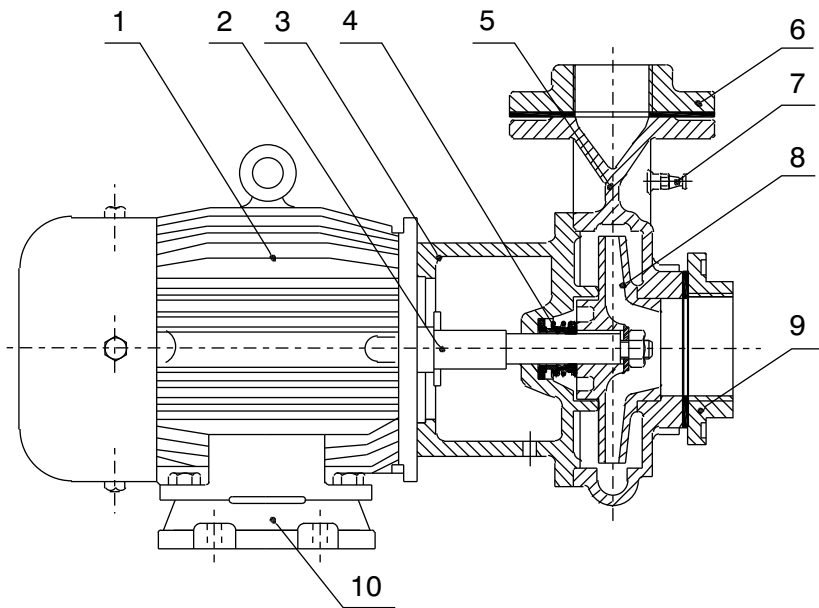
CONSTRUCTION



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										

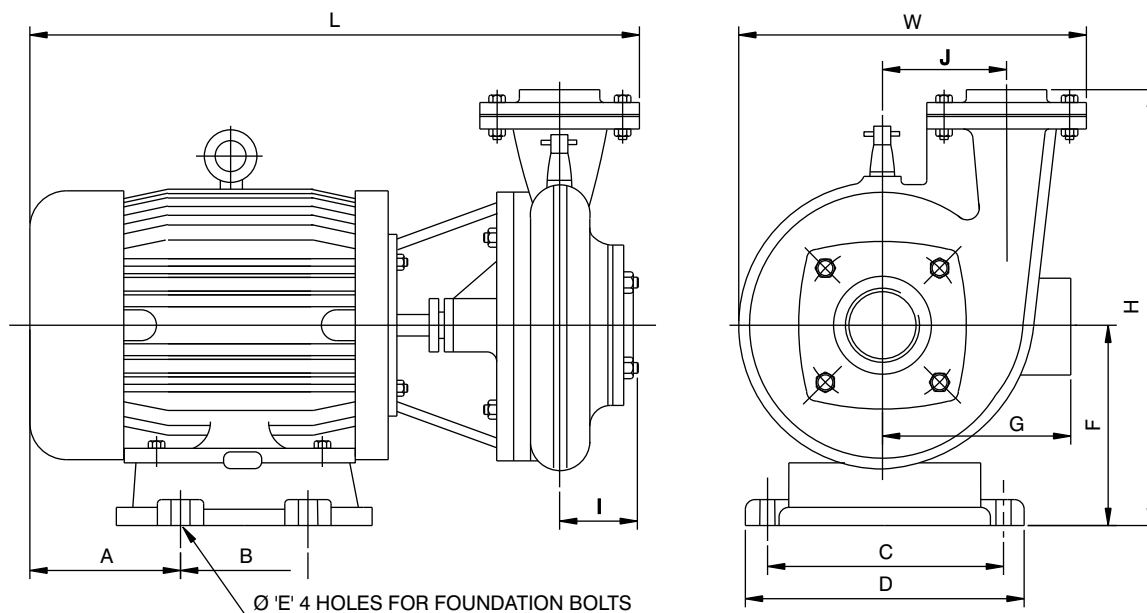
PERFORMANCE CHART (CONTD.)

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.

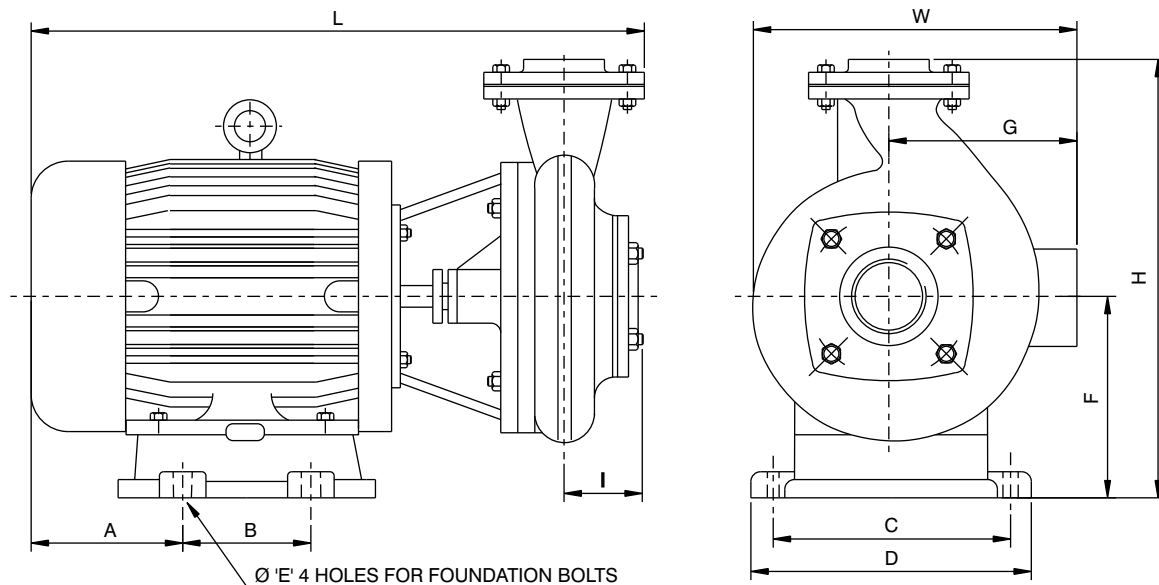
DIMENSIONS & SHIPPING SPECIFICATIONS



RATING	Dimensions (mm)												Shipping Specifications		
	A	B	C	D	E	F	G	I	J	L	W	H	Net Weight Kg.	Gross Weight Kg.	Volume Cu. M.
MBKH22	125	85	210	246	15	116	150	66	81	480	225	265	43	61	0.098
MBN3	125	110	240	280	19	164	160	79	140	540	355	380	65.5	94.5	0.199
MBNH3	125	110	240	280	19	164	160	79	144	540	370	365	67	96	0.199
MBK52	140	110	270	310	19	138	170	73	112	545	290	320	65	87	0.129
MBNH52	140	110	270	310	19	138	170	74	114	545	300	305	66	88	0.129
MBNS52	140	110	270	310	19	138	170	74	106	545	285	330	66	88	0.129
MBP5	140	110	270	310	19	162	170	85	153	575	380	365	80	109	0.199
MBK7.52	155	130	305	345	19	164	190	69	121	605	305	355	91.5	117.5	0.166
MBN7.52	155	130	305	345	19	164	190	76	115	605	310	345	91	117	0.166
MBNH10.2	175	130	305	345	19	164	190	72	117	640	310	345	107	140	0.233
MBP10.2	175	130	305	345	19	164	190	81	135	655	355	355	111	144	0.233
MBR10.2	175	130	305	345	19	202	190	86	143	660	375	395	118.5	151.5	0.233
MBP12.52	175	130	305	345	19	164	190	81	135	655	355	355	113.5	146.5	0.233
MBR12.52	175	130	305	345	19	202	190	86	143	660	375	395	121.5	154.5	0.233
MBP15.2	175	130	305	345	19	164	190	81	135	655	355	355	114	147	0.233
MBR15.2	175	130	305	345	19	202	190	86	143	660	375	395	122	155	0.233
MBR20.2D	115	200	350	390	19	220	300	86	143	700	375	410	174.5	230.5	0.383
MBK52M	140	110	270	310	19	138	170	73	112	510	290	320	63.5	85.5	0.129
MBNH52M	140	110	270	310	19	138	170	74	114	510	300	305	64.5	86.5	0.129
MBP10.2M	175	130	305	345	19	164	190	81	135	615	355	355	109	142	0.233
MBR15.2M	175	130	305	345	19	202	190	86	143	620	375	395	119.5	152.5	0.233
MBR20.2M	185	200	350	390	19	220	265	86	143	690	375	410	179	235	0.383

All flanges are with BSP threads.

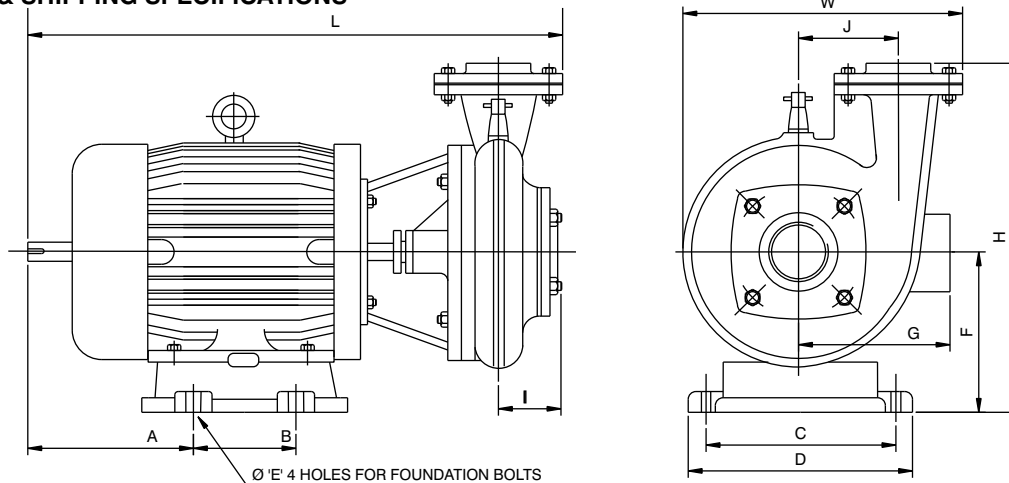
DIMENSIONS & SHIPPING SPECIFICATIONS



Ratings	Dimensions (mm)											Shipping Specifications		
	A	B	C	D	E	F	G	I	L	W	H	Net Weight Kg.	Gross Weight Kg.	Volume Cu. M.
MBK1.52C	200	65	110	150	14	100		70	400	205	265	32	34.5	0.038
MBKH1.52C	200	65	110	150	14	100		70	400	205	265	32	34.5	0.038
MBKS1.52	200	65	110	150	14	100		68	400	195	265	33	35.5	0.038
MBM1.52	200	65	110	150	14	100		72	405	185	265	32.5	35	0.038
MBK22	125	85	210	246	15	116	150	77	490	240	290	43.5	61.5	0.098
MBN22	125	85	210	246	15	116	150	72	485	250	300	45	63	0.098
MBK32	125	110	240	280	19	120	160	77	515	260	300	52	71	0.108
MBKS32	125	110	240	280	19	120	160	77	515	265	310	53	75	0.129
MBNL32	125	110	240	280	19	120	160	73	515	250	295	52.5	71.5	0.108
MBN32	125	110	240	280	19	120	160	72	510	260	305	52.5	71.5	0.108
MBP32	125	110	240	280	19	120	160	76	520	275	325	54.5	80.5	0.166
MBQ32	125	110	240	280	19	120	160	76	520	275	335	55	81	0.166
MBKS52	140	110	270	310	19	138	170	74	550	295	350	68.5	94.5	0.166
MBP52	140	110	270	310	19	138	170	76	550	270	325	65.5	87.5	0.129
MBS52	140	110	270	310	19	138	170	89	575	285	395	74	103	0.199
MBP7.52	155	130	305	345	19	164	190	76	610	300	355	88	114	0.166
MBS7.52	155	130	305	345	19	164	190	89	630	310	420	95	128	0.233
MBS10.2	175	130	305	345	19	164	190	90	665	325	420	112.5	150.5	0.283
MBK22M	125	85	210	246	15	116	150	77	465	240	290	42	60	0.098
MBK32M	125	110	240	280	19	120	160	77	490	260	300	51	70	0.108
MBN32M	125	110	240	280	19	120	160	72	485	260	305	51.5	70.5	0.108
MBNL32M	125	110	240	280	19	120	160	73	490	250	295	51.5	70.5	0.108
MBP52M	140	110	270	310	19	138	170	76	515	270	325	64	86	0.129
MBP7.52M	155	130	305	345	19	164	190	76	565	300	355	87	113	0.166
MBK32LF	125	110	240	280	19	120	160	77	490	250	295	46.00	61.00	0.098
MBN32LF	125	110	240	280	19	120	160	77	490	250	300	46.50	63.00	0.098
MBQ52	140	110	270	310	19	138	170	76	571	262	347	67.50	93.50	0.166
MBPH10.2	175	130	305	345	19	164	190	72	606	333	435	114.00	152.00	0.283
MBS12.52	175	130	305	345	19	164	190	90	665	325	420	120.00	153.00	0.283
MBRH12.52	175	130	305	345	19	202	190	81	602	333	475	121.50	159.50	0.283
MBPH15.2	175	130	305	345	19	202	190	86	606	333	435	117.00	155.00	0.283
MBRH15.2	175	130	305	345	19	202	190	86	602	333	475	122.00	160.00	0.283
MBN15.2	175	130	305	345	19	202	190	86	602	333	422	120.50	158.50	0.283
MBRH20.2D	117	200	350	390	19	220	300	86	700	375	410	174.00	230.00	0.383
MBPH20.2D	117	200	350	390	19	220	300	86	700	510	500	174.00	230.00	0.383
MBR25.2	274	240	280	357	18	160	210	92	785	360	490	251.5	331.5	0.396
MBR30.2	274	240	280	357	18	160	210	92	785	360	490	252.00	332.00	0.396

All flanges are with BSP threads.

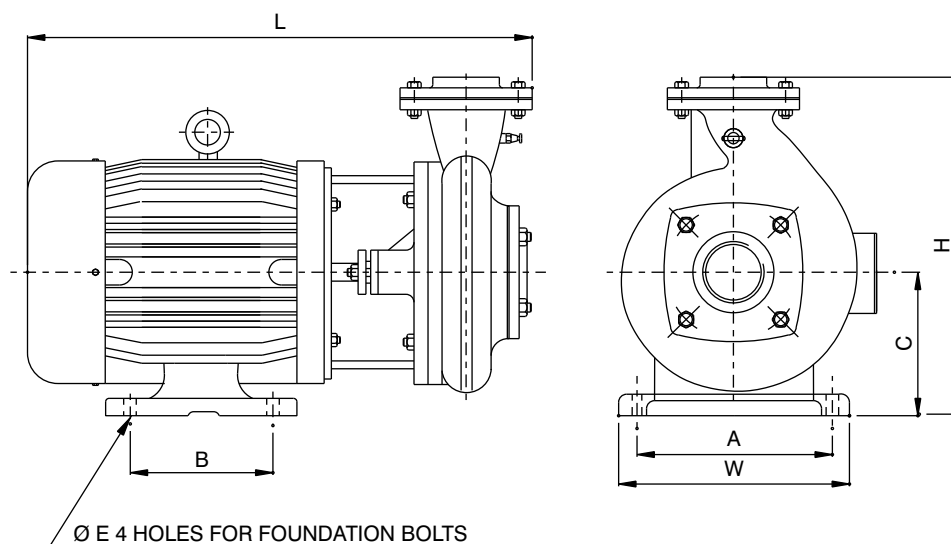
DIMENSIONS & SHIPPING SPECIFICATIONS



Rating	Dimensions (mm)												Shipping Specifications		
	A	B	C	D	E	F	G	I	J	L	W	H	Net Weight Kg.	Gross Weight Kg.	Volume Cu. M.
OMBP 5	210	110	270	310	19	162	170	85	153	645	380	365	81	114	0.233
OMBR 5	210	110	270	310	19	202	170	88	150	655	395	415	87.5	120.5	0.233
OMBS 5	210	110	270	310	19	202	170	88	150	655	410	440	90	128	0.283
OMBR 7.5	240	130	305	345	19	202	190	88	166	715	425	415	111.5	149.5	0.283
OMBS 7.5	240	130	305	345	19	202	190	88	150	725	410	440	115.5	153.5	0.283

All flanges are with 'BSP' threads.

DIMENSIONS & SHIPPING SPECIFICATIONS



Rating	Dimension in (mm)						Shipping Specifications		
	A	B	C	L	W	H	Net Weight Kg.	Gross Weight Kg	Volume in Cu.M.
MEN 32A	173	97	112	485	220	275	46.2	68.95	0.107
MEP 52A	165	140	130	520	207	300	55.7	78.50	0.107

All Flanges are with BSP threads.

TWO STAGE CENTRIFUGAL MONOSET PUMPS



Two Stage Centrifugal Monoset pumps are designed with state of the art computerised techniques for catering to higher head applications.

Features

- The pumps have two stages arranged in series with both the stage impellers mounted on the same shaft.
- Monoset construction with second stage volute casing is made integral with the adaptor.
- The impellers are located back to back for minimum axial thrust.
- Water lubricated brass bush bearing are provided at suction end.
- Fool proof design to avoid interchange of impellers between two stages.
- Simple, balanced and robust construction for noise and vibration free operation.

Applications

- Agricultural and irrigation including sprinkler application.
- Industrial cooling water circulation and mild alkali handling.
- Industrial water supply.
- Domestic and community drinking water supply.
- Multistoried buildings.

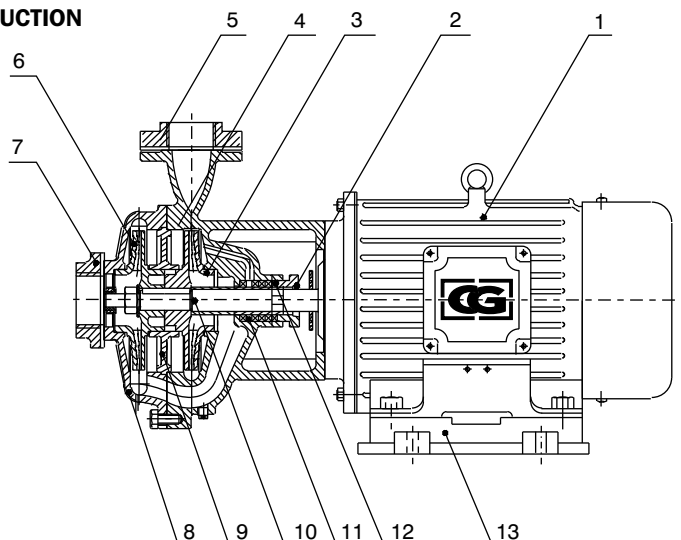
Standard Specifications

- **Range** : 3.7 to 7.5 kW (5.0 HP to 10.0 HP).
- **Supply** : 415 Volts, 50 Hz, 3 Phase, AC.
- **Pipe Size** : 50 x 40 mm to 65 x 50 mm.
- **Operating Temperature** : Upto 85°C.
- **Total head** : Upto 81 metres.
- **Capacity** : Upto 355 LPM.
- **Liquid** : Clean Water.
- **Rotation** : Clockwise when viewed from motor end.
- **Sealing** : Gland packing.
- **Speed** : 3000 RPM (syn.)
- **Maximum casing pressure** : 12.5 kg/cm².

Electric Motor

- TEFC, SCR, 2 pole, (3000 RPM, syn. speed) electric motor suitable for 415 Volts, 50 Hz, 3 Phase, AC supply and class 'F' insulation, suitable for ambient temperature upto 40°C.

CONSTRUCTION



No.	PART	MATERIAL
1	Motor	–
2	Gland	Graded Cast Iron
4	Delivery Impeller	Graded Cast Iron
5	Delivery Volute	Graded Cast Iron
6	Delivery Flange	Graded Cast Iron
7	Suction Impeller	Graded Cast Iron
8	Suction Flange	Graded Cast Iron
9	Suction Volute	Graded Cast Iron
10	Interstage Plate	Graded Cast Iron
11	Shaft	Stainless Steel (AISI 410)
12	Lantern Ring	Polypropeline
13	Gland Packing Set	Threaded Graphite Cotton
14	Base Plate	Graded Cast Iron

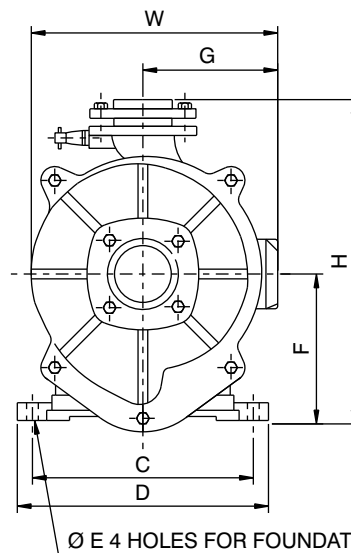
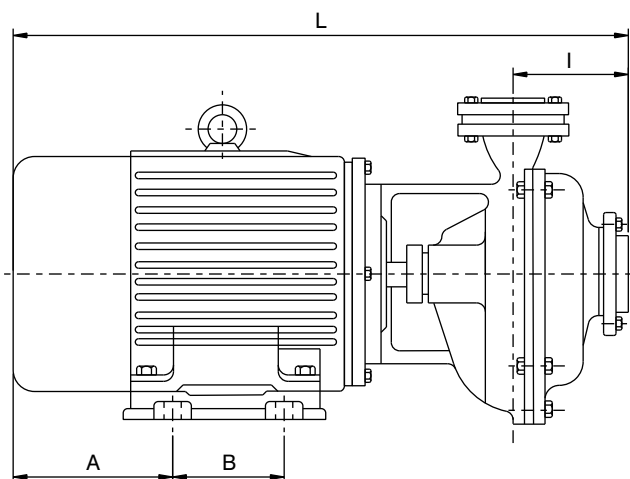
PERFORMANCE CHART

Rating	Pipe size Suc. x Del. (mm)	Motor kW (HP)	Total Head in Metres										
			51	54	57	60	63	66	69	72	75	78	81
			Discharge in LPM										
TMK52G	50 x 40	3.7 (5.0)	195	175	155	135	115	90	65	35			
TMN7.52G	65 x 50	5.5 (7.5)	300	280	260	240	215	185	120				
TMN10.2G	65 x 50	7.5 (10.0)	355	340	325	310	295	275	250	225	190	140	50

Notes:-

1. The above performance is based on rated voltage (415+6%-15% for 1 Phase) and rated frequency (50Hz±3%).
2. The above performance is subjected to tolerances as per relevant Indian Standards.
3. Pipe sizes mentioned in mm are nearest conversion of inches, but actual pipe threadings are provided as per 'BSP' Standards
4. Total head = Static Suction + Static Delivery + Losses in pipes, bends etc.

DIMENSIONS & SHIPPING SPECIFICATIONS



Rating	Dimensions (mm)											Shipping Specifications		
	A	B	C	D	E	F	G	I	L	W	H	Net Weight Kg.	Gross Weight Kg.	Volume Cu. M.
TMK52G	140	110	270	310	19	162	170	130	625	280	365	85	119	0.233
TMN7.52G	155	130	305	345	19	164	190	139	690	310	385	110	144	0.233
TMN10.2G	180	130	305	345	19	164	190	139	730	310	385	120	159	0.283

All flanges are with 'BSP' threads.

CENTRIFUGAL MONOSET PUMPS MBG Series



Crompton Greaves Centrifugal Monoset Pumps MB (Single Phase) Series cover a wide range of domestic and smaller commercial and agricultural applications.

Features

- Monoset construction.
- High quality and long life mechanical seal.
- Totally enclosed fan cooled motor for better safety.
- Unique Motor design capacitor start and run (PSC) type eliminating centrifugal switch.
- Graded cast iron motor body.

Standard Specifications

- **Range** : 0.37 kW to 1.5 kW (0.5 to 2.0 HP).
- **Supply** : 225 Volts, 1 phase 50 Hz, AC.
- **Pipe size** : 25 x 25 mm to 80 x 80 mm.
- **Total head** : Upto 33 metres.
- **Capacity** : Upto 930 LPM.
- **Liquid** : Clear water.
- **Rotation** : Clockwise as viewed from motor end.
- **Operating temperature** : Suitable upto 65°C water.

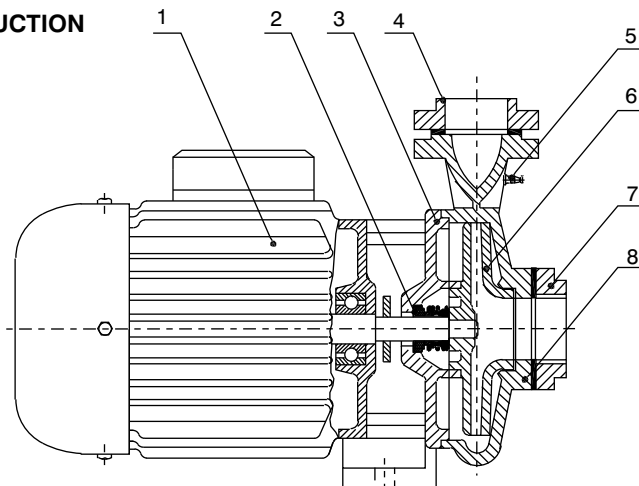
Electric Motor

- Totally Enclosed Fan Cooled, 2 pole (3000 RPM Syn. Speed) Electric Motor for 1 phase 225 Volts 50 Hz, AC supply. Suitable for ambient temperature upto 40°C.
- Special motor with different enclosure, supply voltage, frequency and ambient can be offered on request.

Applications

- Bungalows, buildings, flats, hotels, garages, laundries and industries.
- Car washing.
- Booster application.
- Small farms.
- Lawn sprinklers.
- Ornamental fountains.
- Water circulation in solar heater systems.
- Auxiliary equipment for machinery.

CONSTRUCTION



No.	PART	MATERIAL
1	Motor	—
2	Mechanical Seal	—
3	Adaptor	Graded Cast Iron
4	Delivery Flange	Graded Cast Iron
5	Air Cock	Brass
6	Impeller	Graded Cast Iron
7	Suction Flange	Graded Cast Iron
8	Volute Casing	Graded Cast Iron

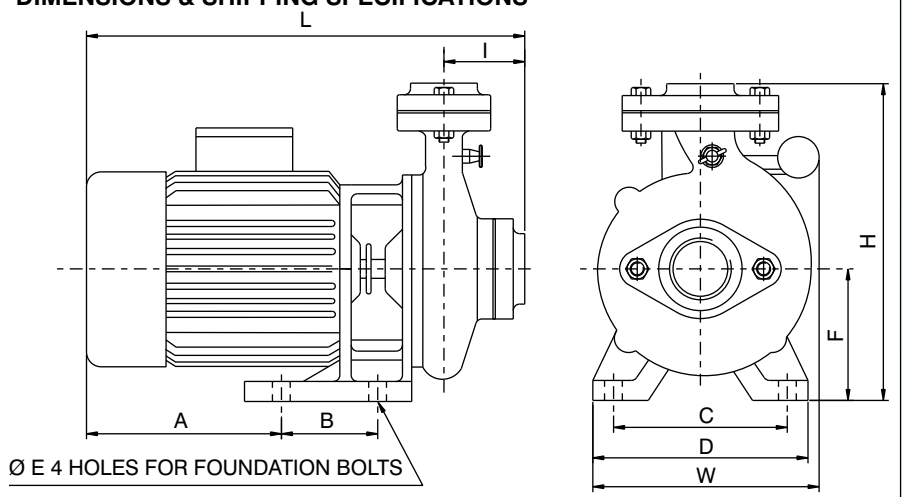
PERFORMANCE CHART

Rating	Motor kW (HP)	PIPE SIZE Suc.x Del. (mm)	TOTAL HEAD IN METRES																		
			6	7.5	9	10.5	12	13.5	15	16.5	18	19.5	21	22.5	24	25.5	27	28.5	30	32	33
			DISCHARGE IN LPM																		
MBD052	0.37(0.5)	25 x 25			110	105	95	85	75	60	40										
MBDL052	0.37(0.5)	25 x 25	100	95	90	85	80	70	50	30											
MBE052@	0.37(0.5)	32 x 25			80	73	65	58	50	43	35	25									
MBJ052/LV	0.37(0.5)	40 x 40		210	190	170	140	80													
MBD12@	0.75(1.0)	25 x 25										100	90	82	70	55	30				
MBDL12/A	0.75(1.0)	25 x 25					82		81.5		81		80.5		79		71		45		
MBE12@	0.75(1.0)	32 x 25										90	85	77	70	60	30				
MBG12 *@	0.75(1.0)	40 x 32			175	170	165	160	150	140	130	115	100	85							
MBJ12	0.75(1.0)	40 x 40			175	170	165	160	150	140	130	115	100	85							
MBJL12*	0.75(1.0)	41 x 40			300	275	250	225	200	165											
MBK12*	0.75(1.0)	50 x 40			380	340	300	255	200												
MBM12	0.75(1.0)	50 x 50			300	275	250	215	160												
MBML12*	0.75(1.0)	50 x 50	400	375	340	290	225														
MBG1.52 *@	1.1(1.5)	40 x 32							175	170	160	150	140	130	115	100	80	50			
MBJ22	1.5(2.0)	40 x 40													210	200	190	175	160	130	
MBM22	1.5(2.0)	50 x 50						390	370	345	320	290	250	180							
MBN22	1.5(2.0)	65 x 50						425	480	380	350	310	250								
MBP22	1.5(2.0)	80 x 65	910	840	760	670	550	380													
MBQ22	1.5(2.0)	80 x 80	930	860	780	680	570	400													
MBJ12LV/(I)	0.75(1.0)	40x40						140 (13M)	125	110	90	60 (19M)									
MBM12LV/(I)	0.75(1.0)	50x50				245 (11M)	220	175	120												
MBM22LV/(I)	1.5(2.0)	50x50								280 (16M)	240	170 (20M)									
MBN22LV/(I)	1.5(2.0)	65x50						280 (13M)	240	170 (17M)											
MBP22LV/(I)	1.5(2.0)	80x50	700	610	460	250 (11M)															
MBQ22LV/(I)	1.5(2.0)	80x80	720	620	470	260 (11M)															

Notes :-

1. The above performance is based on rated voltage and rated frequency.
2. The above performance is subjected to tolerances as per relevant Indian Standards.
3. Pipe sizes mentioned in mm are nearest conversion of inches, but actual pipe threading are provided as per 'BSP' Standard
4. Total Head = Static Suction + Static Delivery + Losses in pipes, bends etc.
- 5.* Marked ratings are also available in 3 Phase.
- 6.@ Marked ratings are having ISI certification.

DIMENSIONS & SHIPPING SPECIFICATIONS

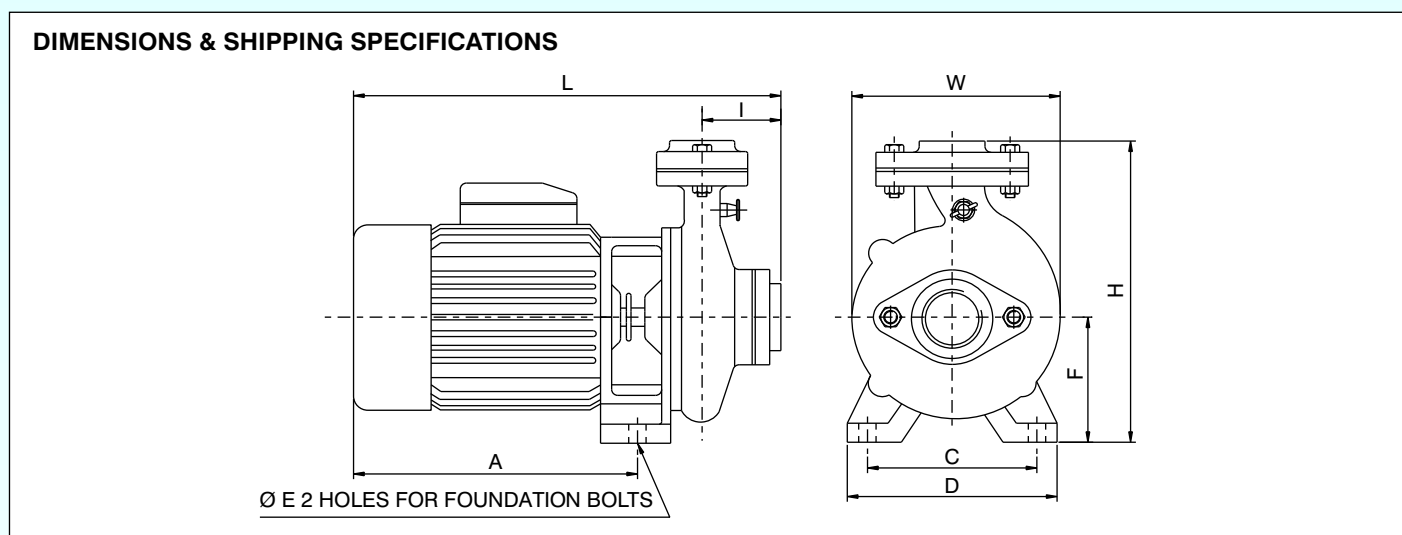


Notes:-

1. The above performance is based on rated voltage (415+6-15% for 3 Phase & 220+6-15% for 1 Phase) and rated frequency (50+-3%).
2. The above performance is subjected to tolerances as per relevant Indian Standards.
3. Pipe sizes mentioned in mm are nearest conversion of inches, but actual pipe threadings are provided as per 'BSP' Standards
4. Total head = Static Suction + Static Delivery + Losses in pipes, bends etc.
5. * marked ratings are also available in 3 phase.

Rating	Dimensions (mm)										Shipping Specifications		
	A	B	C	D	E	F	I	L	W	H	Net Weight Kg.	Gross Weight Kg.	Volume Cu.M.
MBD052	160	45	110	140	12	90	61	315	160	225	15.1	16.8	0.021
MBDL052	165	45	115	145	12	95	55	305	155	225	13.6	15.3	0.021
MBE052	175	50	100	140	14	90	69	350	160	235	20.5	22.5	0.021
MBJ052	160	45	110	140	12	90	64	325	160	250	17.5	19.5	0.021
MBG1.52	200	65	110	150	14	100	68	400	195	265	33	35.5	0.038
MBJ22	225	80	135	180	14	120	67	435	190	285	42	60	0.098
MBN22/LV/(I)	225	80	135	180	14	120	72	440	205	305	44	62	0.098
MBP22/LV/(I)	225	80	135	180	14	120	76	455	250	325	46	65.5	0.111
MBQ22/LV/(I)	225	80	135	180	14	120	76	455	250	335	46	65.5	0.111
MBM22/LV/(I)	225	80	135	180	14	120	74	445	225	280	45	63	0.098

All flanges are with 'BSP' threads.



Rating	Dimensions (mm)									Shipping Specifications		
	A	C	D	E	F	I	L	W	H	Net Weight Kg.	Gross Weight Kg.	Volume Cu.M.
MBD12	220	115	150	14	100	59	340	180	250	25	27.5	0.028
MBE12	220	115	150	14	100	71	350	185	250	25	27.5	0.028
MBG12	220	115	150	14	100	67	345	170	255	24.5	27	0.028
MBJ12/LV/(I)	220	115	150	14	100	67	345	170	255	24.5	27	0.028
MBJL12	220	115	150	14	100	67	345	170	255	24.5	27	0.028
MBM12/LV/(I)	220	115	150	14	100	70	355	170	280	26.5	27	0.028
MBML12	220	115	150	14	100	70	355	175	270	26.5	29	0.028
MBK12	220	115	150	14	100	70	355	175	270	26.5	29	0.028

All flanges are with 'BSP' threads.

OPENWELL SUBMERSIBLE MONOSET PUMPS



Crompton Greaves Openwell Submersible pumpsets are specially designed for its robustness and for its applications under the submerged condition. Years of experience, superior design and better manufacturing techniques have resulted into development of this range of pumpsets, which are efficient and reliable in operation. Strict quality assurance standards during the total process ensures trouble free and reliable operation with minimum maintenance.

Features

- Suitable for operation under submerged condition in water.
- Specially designed to withstand wide voltage fluctuations in 1 phase as well as 3 phase.
- Motor body made of C.I. sturdiness and long life.
- Fitted with sleeves and thrust bearing for longer life.
- Provided with strainer in S.S.
- Motor is water lubricated and fitted with good quality oil seal.
- Suitable for applications where wide water level fluctuations take place in suction side.
- All internal parts of motor are specially coated with primer to prevent rusting for longer life.
- All 1 phase pumpsets are supplied with 10 metres PVC insulated cable and with Control Panel and all 3 phase pumpsets are supplied with 5 metres PVC insulated cable.
- All rotating parts are dynamically balanced for longer bearing life and vibration free smooth and silent operation.

Applications

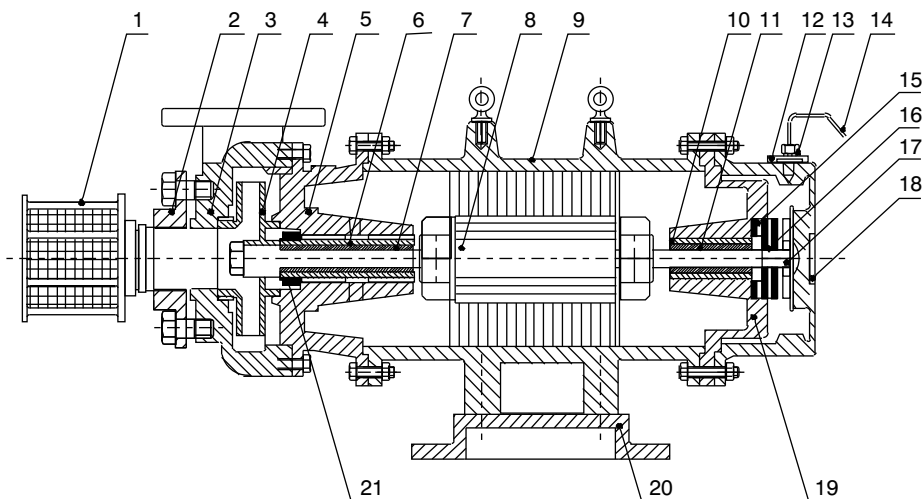
Used for water supply where there is wide fluctuations in water level in suction tank or water supply source.

- Irrigation
- Small farms
- Bungalows, multistoried buildings
- Gardens
- Domestic water supply
- Community water supply schemes

Standard Specifications

- **Range :** 1P - 0.37 to 2.2 kW (0.5 to 3.0HP) 0.37 to 22.5 kW (0.5 to 30.0 HP).
- **Pipe Size :** 25 x 25 to 100 x 100 mm
- **Speed :** 3000 RPM (Syn.)
- **Total Head :** Upto 87 Metres
- **Capacity :** Upto 1830 LPM
- **Liquid :** Clear water
- **Rotation :** Clockwise when viewed from motor end
- **Motor :** Totally enclosed water filled squirrel cage induction motor suitable for 225V/1 phase and 415V/3 phase, 50Hz, AC supply.

CONSTRUCTION



No.	PART	MATERIAL
1	Strainer	Stainless Steel
2	Flange	Graded Cast Iron
3	Volute	Graded Cast Iron
4	Impeller	Graded Cast Iron
5	'DE' Bush Housing	Graded Cast Iron
6	Bush	Brass
7	Sleeve	Brass

No.	PART	MATERIAL
8	Shaft	Stainless Steel
9	Motor Body	Graded Cast Iron
10	Bush	Brass
11	Sleeve	Brass
12	Grommet Plate	Plastic
13	Drain Plug	Stainless Steel
14	Supply Cable	–

No.	PART	MATERIAL
15	Thrust Pad	Fibre
16	Thrust Bearing	Bronze
17	Thrust Bearing Lock Nut	Stainless Steel
18	End Cover	Graded Cast Iron
19	'ODE' Bush Housing	Graded Cast Iron
20	Base Plate	MS (Fabricated)
21	Oil Seal	–

PERFORMANCE CHART

Rating	Motor kW (HP)	Pipe size Suc x Del (mm)	Total Head in Metres																	
			6	9	10.5	12	13.5	15	18	19.5	21	24	25.5	27	28.5	30	33	36	39	42
			Discharge in LPM																	
SMD 052(1Ph)*@	0.37 (0.5)	25 x 25	150	120	105	85	70	30												
SMDH 12(1Ph)*@	0.75 (1.0)	40 x 25				255	245	230	210	200	190	150	125	95	60					
SMG 1.52(1Ph)*@	1.1 (1.5)	40 x 32						270	245	230	220	185	165	130	85	35				
SMK 22 (1Ph)*@	1.5 (2.0)	50 x 40			315	305	295	285	265	255	245	220	205	185	155	110				
SMM22(1PH)@	1.5(2.0)	50 X 50		475	450	430	405	375	310	250	130									
SMKS 32	2.2 (3.0)	50 x 40						355	340	330	315	295	265	240	220	195	75			
SMN 32 @	2.2 (3.0)	65 x 50		740	700	660	630	590	500	450	400	210								
SMO 32 @	2.2 (3.0)	65 x 65			830	800	765	720	580	480	360									
SMS 32	2.2 (3.0)	100 x 100	1180	950	850	675	300													
SMKS 52	3.7 (5.0)	50 x 40											500	485	470	450	420	370	300	120
SMNH 52	3.7 (5.0)	65 x 50							730	700	670	560	480	400	320	200				
SMO 52 @	3.7 (5.0)	65 x 65				840	820	800	750	720	680	570	510	400	240					
SMP 52 @	3.7 (5.0)	80 x 65			1280	1220	1160	1080	940	850	750	450								
SMQ 52 @	3.7 (5.0)	80 x 80		1425	1350	1260	1170	1100	915	800	700									
SMS 52 @	3.7 (5.0)	100 x 100	1550	1350	1270	1160	1080	940	450											
SMNH 6.52	4.8 (6.5)	65 x 50										525	500	480	440	360	250			
SMO 6.52	4.8 (6.5)	65 x 65							800	780	715	675	590	490	400					
SMP 6.52	4.8 (6.5)	80 x 65		1300	1280	1250	1205	1170	1065	1010	950	800	675	520	350					
SMNH 7.52 @	5.5 (7.5)	65 x 50														550	530	500	400	250
SMP7.52 @	5.5 (7.5)	80 x 65										1040	980	910	835	725	500			
SMQ 7.52 @	5.5 (7.5)	80 x 80								1270	1230	1140	1060	970	860	750	450			
SMR 7.52	5.5 (7.5)	100 x 80		1650	1575	1510	1450	1380	1225	1120	1000	750	300							
SMS 7.52 @	5.5 (7.5)	100 x 100		1650	1575	1510	1450	1380	1225	1120	1000	750	300							
SMNH 10.2 @	7.5 (10.0)	65 x 50															600	580	560	525
SMPH 10.2 @	7.5 (10.0)	80 x 65							1035	1030	1020	1000	985	975	965	950	920	850	625	
SMQH 10.2	7.5 (10.0)	80 x 80											1250	1200	1150	1025	860	485		
SMS 10.2 @	7.5 (10.0)	100 x 100		1830	1760	1700	1640	1590	1460	1380	1300	1100	950	725	475					
SMQH12.52	9.4 (12.5)	80 X80						1670	1640	1620	1600	1530	1480	1420	1330	1200	800			
SMS12.52	9.4 (12.5)	100 x 100						1950	1840	1780	1710	1580	1480	1320						

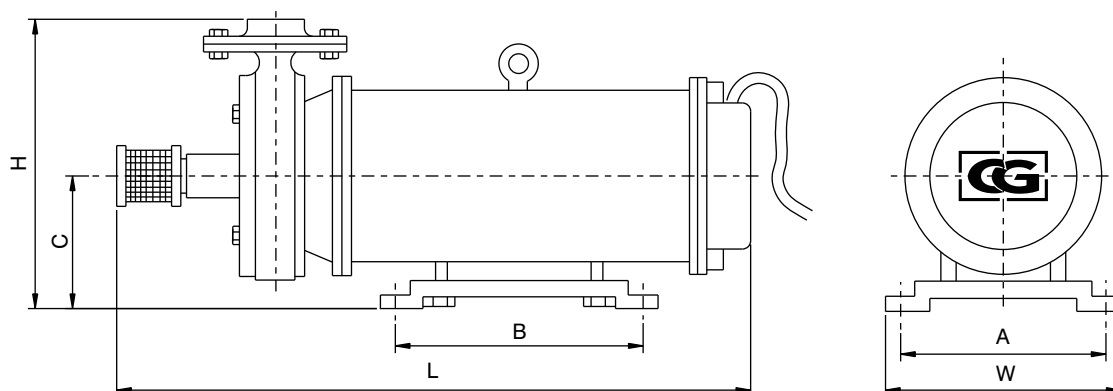
Rating	Motor kW (HP)	Pipe size Suc x Del (mm)	Total Head in Metres														
			15	18	19.5	21	24	25.5	27	28.5	30	33	36	39	42	45	48
			Discharge in LPM														
SMQH15.2	11.3 (15.0)	80 X80									1520	1480	1360	1160	950		
SMS15.2	11.3 (15.0)	100 x 100	2350	2200	2125	2050	1900	1800	1700	1600	1350						
SMQH17.52	13.1 (17.5)	80 X80									1765	1740	1700	1620	1400	1160	800
SMS17.52	13.1 (17.5)	100 x 100		2320	2290	2240	2170	2130	2080	2000	1900	1700	1200				

Rating	Motor kW (HP)	Pipe size Suc x Del	Total Head in Metres												
			51	54	57	60	63	66	69	72	75	78	81	84	87
		(mm)	Discharge in LPM												
SMQH30.2	22.0 (30.0)	80 X80	1340	1320	1300	1270	1240	1210	1170	1120	1070	1020	935	820	640

Notes :-

1. 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%).
2. The above performance is subjected to tolerances as per relevant Indian Standards.
3. Pipe sizes mentioned in mm are nearest conversion of inches, but actual pipe threading are provided as per 'BSP' Standard.
4. Total Head = Static Suction + Static Delivery + Losses in pipes, bends etc.
5. * Marked ratings are also available in 3 Phase.
6. @ Marked ratings are having ISI certification.
7. Also available with SS Stator Body.
8. Also available with copper rotor

DIMENSIONS & SHIPPING SPECIFICATIONS



Rating	Dimensions (mm)						Shipping Specifications		
	A	B	C	L	W	H	Net Weight Kg.	Gross Weight Kg.	Volume Cu. M.
SMDO 52(1Ph)	110	0	90	390	140	220	16.27	17.14	0.026
SMDH 12(1Ph)	170	175	135	475	201	312	34.4	36.63	0.050
SMDS 12(1Ph)	180	185	145	405	205	305	44.3	63.80	0.084
SMG 1.52(1Ph)	180	225	125	600	206	312	44.3	66.00	0.236
SMK 22(1Ph)	180	225	125	600	206	312	47.4	69.10	0.236
SMM 22(1Ph)	180	225	125	600	206	312	47.4	69.10	0.236
SMDO 52(3Ph)	110	0	90	278	140	193	16.27	17.14	0.026
SMDH 12(3Ph)	175	185	128	395	195	280	34.4	61.10	0.184
SMG 1.52(3Ph)	182	230	128	500	205	263	44.3	66.00	0.236
SMK 22(3Ph)	182	230	128	500	205	263	47.4	69.10	0.236
SMKS 32	225	235	160	565	250	352	59	90.00	0.145
SMN 32	225	260	160	600	265	332	63	94.00	0.145

Continued on next page

Rating	Dimensions (mm)						Shipping Specifications		
	A	B	C	L	W	H	Net Weight Kg.	Gross Weight Kg.	Volume Cu. M.
SMO 32	225	260	160	610	260	342	63.00	94.00	0.145
SMS 32	225	260	155	625	310	335	76.00	107.00	0.145
SMKS 52	225	260	165	575	250	372	62.00	93.00	0.145
SMNH 52	225	260	160	600	260	332	68.00	100.00	0.145
SMO 52	225	260	160	610	260	342	66.00	97.00	0.145
SMP 52	225	260	160	610	260	342	65.00	96.00	0.145
SMQ 52	220	260	170	598	258	427	76.00	107.00	0.145
SMS 52	225	260	155	625	310	335	78.00	110.00	0.159
SMNH 6.52	225	260	150	600	260	422	70.00	102.00	0.145
SMO 6.52	225	260	160	585	260	347	68.00	99.00	0.145
SMP 6.52	225	260	160	490	310	330	65.00	96.00	0.145
SMNH 7.52	220	255	155	745	265	362	85.00	117.00	0.175
SMP 7.52	220	255	160	730	265	362	90.00	122.00	0.175
SMQ 7.52	220	255	160	730	265	357	90.00	122.00	0.175
SMR 7.52	220	255	155	750	265	347	93.00	125.00	0.175
SMS 7.52	220	255	155	780	265	347	93.00	125.00	0.175
SMNH 10.2	220	255	155	745	265	362	90.00	123.00	0.175
SMPH 10.2	220	255	160	730	265	362	98.00	130.00	0.175
SMQH 10.2	220	255	160	730	265	360	99.00	131.00	0.175
SMS 10.2	220	255	160	750	265	355	97.00	129.00	0.175
SMQH 12.52	225	365	175	700	255	335	100.50	132.50	0.192
SMS 12.52	225	365	175	700	255	335	101.50	133.50	0.192
SMQH 15.2	225	365	175	685	255	355	101.50	133.50	0.192
SMS 15.2	225	365	175	685	255	355	102.5	134.50	0.192
SMQH 17.52	225	365	175	685	255	355	107.5	139.50	0.192
SMS 17.52	225	365	175	685	255	355	108.50	105.50	0.192
SMQH 30.2	225	385	200	940	280	390	226.50	296.50	0.243

All flanges are with 'BSP' threads.

DIESEL ENGINE & DIESEL ENGINE PUMPSET



Water Cooled Engine



Lister Engine



Diesel Engine Pumpset

DIESEL ENGINE

Crompton Greaves Water/Air Cooled Diesel Engines are used for Agriculture, Power Generation (D.G. Sets), Industrial, Construction and other applications.

Technical Specifications

- **Type** : Vertical, Single / Twin Cylinder, Air / Water cooled, Totally Enclosed, Compression Ignition, 4 Stroke Cycle, Cold Starting Diesel Engine.
- **Fuel System** : Fuel is supplied to the fuel pump by gravity feed through the fuel tank and efficient paper element filter.
- **Lubrication** : All moving parts in

engine are lubricated partly by force feed and partly by splash lubrication. Parts like Valves, Push Rods etc. could be lubricated with oil can for slow speed Engines.

- **Cooling** : Engine can be cooled with the help of run through water supply arrangement or with radiator / tank cooling in water cooled engine. In case of air cooled engine, cold air is forced on the cylinder and cylinder head by radial fan mounted on flywheel and directed through a cowling.
- **Governing** : Mechanical, Centrifugal, for pumping application class B1, for D.G. Set application class A2.

- **Rotation** : Standard direction of rotation is clockwise while facing the flywheel end, reverse rotation engines can be supplied if specifically ordered.
- **Starting** : Hand start (manually), electric start can also be offered on request.
- **Drive** : Standard power take off is from flywheel end. Power take off from gear end at half engine speed can be provided against specific requirement.
- **Standard Equipment** : Starting handle, exhaust silencer, air cleaner, set of tools. Plus drive pulley, oiler for slow speed engines. (marked * in technical data table)

Optional Equipment

- Pump Application : Base plate, moving frame with wheels, run through cooling arrangement, coupling arrangement.
- Genset Application : Coupling arrangement, moving frame, base plate, radiator cooling arrangement.

DIESEL ENGINE PUMPSET

Special Features

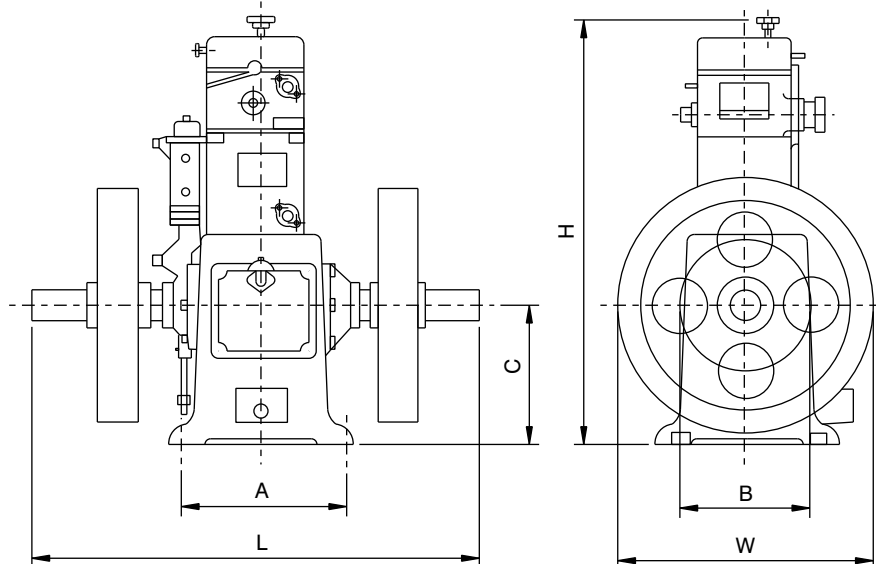
- Excellent efficiency High discharge rate consuming less diesel.
- Extremely simple construction - Easy for maintenance, easy gland packing replacement, suitable for direct drive with engine.
- Shaft is of high carbon steel, ground accurately and ample size - can transmit maximum power without vibrations.
- Bearing Housing - Sturdy and robust construction to give long continuous service - fitted with bronze bearing bush and ball bearing, both ample size to withstand all operating conditions.
- Low NPSH requirement - Highest suction lift. Can suck water from depths as low as 9 meters.
- C.I. Components of higher grade - Much higher mechanical strength.
- Central Delivery - No air release cock required - No need to go down in the well to release air.
- Back pull out design - No need to disturb piping while maintenance and servicing.

Technical Data

	Light Weight		Water Cooled									Air Cooled					
Diesel Engine Type	CEL3.5	CEL5	CE5	CE6.5	CE8	CEH8	CE10	CE14	CE20	CE28	CEA3.5	CEA6	CEA8	CEA10	CEA12	CEA16	CEA20
No. of Cylinder	1	1	1	1	1	1	1	1	2	2	1	1	1	1	2	2	2
kW	2.6	3.7	3.7	4.8	5.9	5.9	7.35	10.3	14.7	20.6	2.6	4.4	5.9	7.35	10.3	11.8	14.7
BHP	3.5	5	5	6.5	8	8	10	14	20	28	3.5	6	8	10	12	16	20
Speed (RPM)	1500	2200	1500	1500	1500	1800	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500	1500
Bore (mm)	76	76	80	85	95	87.5	102	114.3	102	114.3	76	87.5	95	102	87.5	95	102
Stroke (mm)	76	76	110	110	110	110	116	116	116	116	76	110	110	116	116	116	116
Compression Ratio	16.5:1	16.5:1	16.5:1	16.5:1	16.5:1	16.5:1	17.5:1	17.5:1	17.5:1	17.5:1	16.5:1	16.0:1	17.5:1	17.5:1	17.5:1	17.5:1	17.5:1
Cubic Capacity (Litre)	0.345	0.345	0.552	0.623	0.779	0.661	0.948	1.19	1.896	2.38	0.345	0.661	0.78	0.948	1.322	1.56	1.896
Fuel Tank Capacity (Litre)	3.5	3.5	6.5	6.5	11.5	6.5	11.5	11.5	11.5	11.5	3.5	6.5	11.5	11.5	11.5	11.5	11.5
Fuel Consumption (g/kWh)	252	275	245	252	250	252	250	250	250	250	252	252	252	252	252	252	252
Lub. Oil Sump Capacity (Litre)	1.5	1.5	3.5	3.5	4	3.5	4	4	7	7	1.5	3.7	4	4	7.2	7.2	7.2
Lub. Oil Consumption (g/kWh)	2.52	2.75	2.45	2.52	2.5	2.52	2.5	2.5	2.5	2.5	2.52	2.52	2.52	2.52	2.52	2.52	2.52
Centre Ht. of Crank Shaft (mm)	150	150	203.2	203.2	203.2	203.2	203.2	203.2	203.2	203.2	150	203.2	203.2	203.2	203.2	203.2	203.2
Engine Bare Wt. (kg. Apprx.)	84	84	130	140	187	155	187	189	283	285	84	175	188	186	325	325	325
Packed Weight (kg. Apprx.)	124	124	190	200	250	214	250	252	358	360	124	254	254	254	400	400	400
Packing Case Volume (Cu.M.)	0.23	0.23	0.37	0.37	0.44	0.37	0.44	0.44	0.56	0.56	0.23	0.44	0.44	0.44	0.56	0.56	0.56

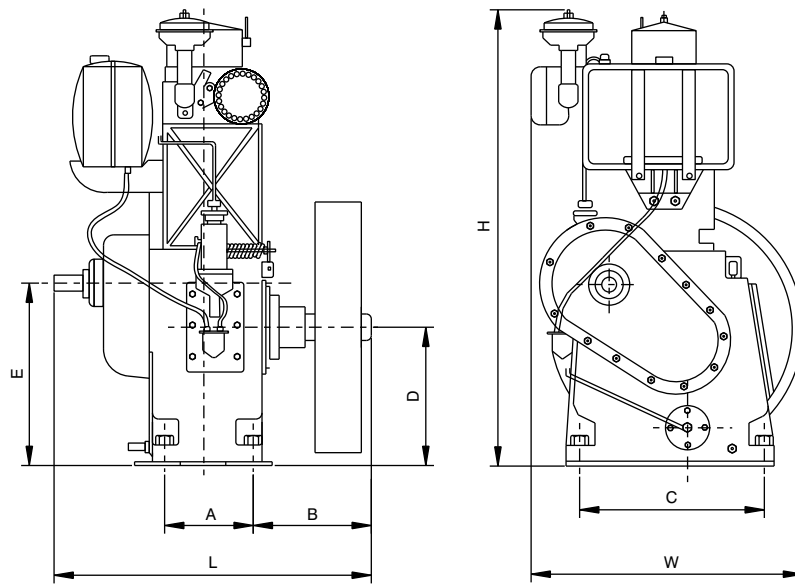
	Lister Engine				
Diesel Engine Type	CLE6W	CLE8W	CLE10W1	CLE10W	CLE12W1
No. of Cylinder	1	1	1	1	1
kW	4.4	5.9	7.35	7.35	8.8
BHP	6	8	10	10	12
Speed (RPM)	650	850	1000	1000	1000
Bore (mm)	114.3	114.3	120	120	127
Stroke (mm)	139.7	139.7	139.7	139.7	130
Compression Ratio	19.0:1	19.0:1	21.0:1	21.0:1	18.0:1
Cubic Capacity (Litre)	1.432	1.432	1.58	1.58	1.646
Fuel Tank Capacity (Litre)	9	9	9	9	9
Fuel Consumption (g/kWh)	268	268	268	268	268
Lub. Oil Sump Capacity (Litre)	4.0	4.5	4.5	4.5	4.5
Lub. Oil Consumption (g/kWh)	2.65	2.65A	2.65	2.65	2.65
Centre Ht. of Crank Shaft (mm)	203.2	317.5	317.5	317.5	235
Engine Bare Wt. (kg. Apprx.)	300	310	335	335	330
Packed Weight (kg. Apprx.)	400	475	495	495	525
Packing Case Volume (Cu.M.)	0.84	0.84	0.84	0.84	0.69

DIMENSIONS & SHIPPING SPECIFICATIONS LISTER ENGINE



Rating	Dimensions (mm)						Shipping Specifications	
	A	B	C	L	W	H	Net. Weight (kg.)	Volume Cu. Mtr.
CLE 6W	330	330	318	1020	720	1140	300	0.86
CLE 8W	330	330	318	1020	720	1140	310	0.86
CLE 10W	330	330	318	1020	720	1140	335	0.86
CLE 10W1	330	330	318	1020	720	1140	335	0.86
CLE 12W1	305	200	265	950	670	1090	330	0.70

DIMENSIONS & SHIPPING SPECIFICATIONS

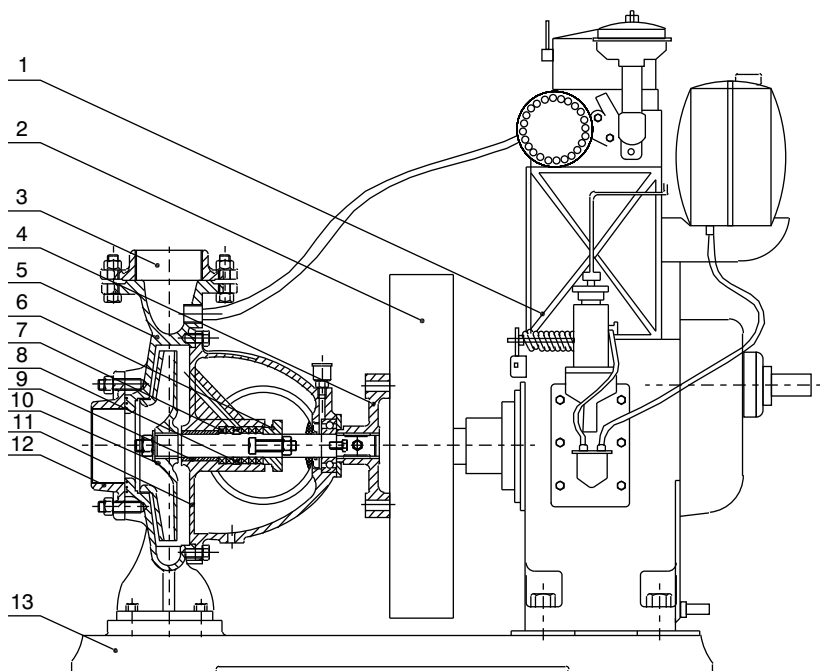


Air/Water Cooled Engine

Rating	Dimensions (mm)								Shipping Specifications		
	A	B	C	D	E	L	W	H	Bare Engine Weight (kg.)	Packing Case Size in mm	Volume Cu. Mtr
CEL3.5	120	121	225	150	226	435	395	435	84	535x610x725	0.24
CEL5	120	121	225	150	226	435	480	435	84	535x610x725	0.24
CE5	140	158	292	203	301	530	480	760	130	610x685x890	0.37
CE6.5	140	158	292	203	301	530	480	760	140	610x685x890	0.37
CE8	140	158	292	203	301	530	480	760	187	665x750x900	0.44
CEH8	140	158	292	203	301	910	480	760	155	610x685x890	0.37
CE10	140	158	292	203	301	530	480	760	187	665x750x900	0.44
CE14	140	158	292	203	301	530	480	760	189	665x750x900	0.44
CE20	292	158	292	203	203	617	780	847	283	790x940x965	0.71
CE28	292	158	292	203	203	617	780	847	285	790x940x965	0.71
CEA3.5	120	135	225	150	226	435	395	640	84	535x610x725	0.24
CEA6	140	163	292	203	226	625	546	760	174	665x750x900	0.44
CEA8	140	163	292	203	226	625	546	760	188	665x750x900	0.44
CEA10	140	163	292	203	226	625	546	760	188	665x750x900	0.44

Rating	Dimensions (mm)								Shipping Specifications		
	A	B	C	D	E	L	W	H	Bare Engine Weight (kg.)	Packing Case Size in mm	Volume Cu. Mtr
CEA12	120	121	225	150	226	435	395	435	325	535x610x725	0.56
CEA16	120	121	225	150	226	435	480	435	400	535x610x725	0.56
CEA20	292	158	292	203	301	870	670	800	400	610x685x890	0.56

CONSTRUCTION



DIESEL ENGINE PUMPSET

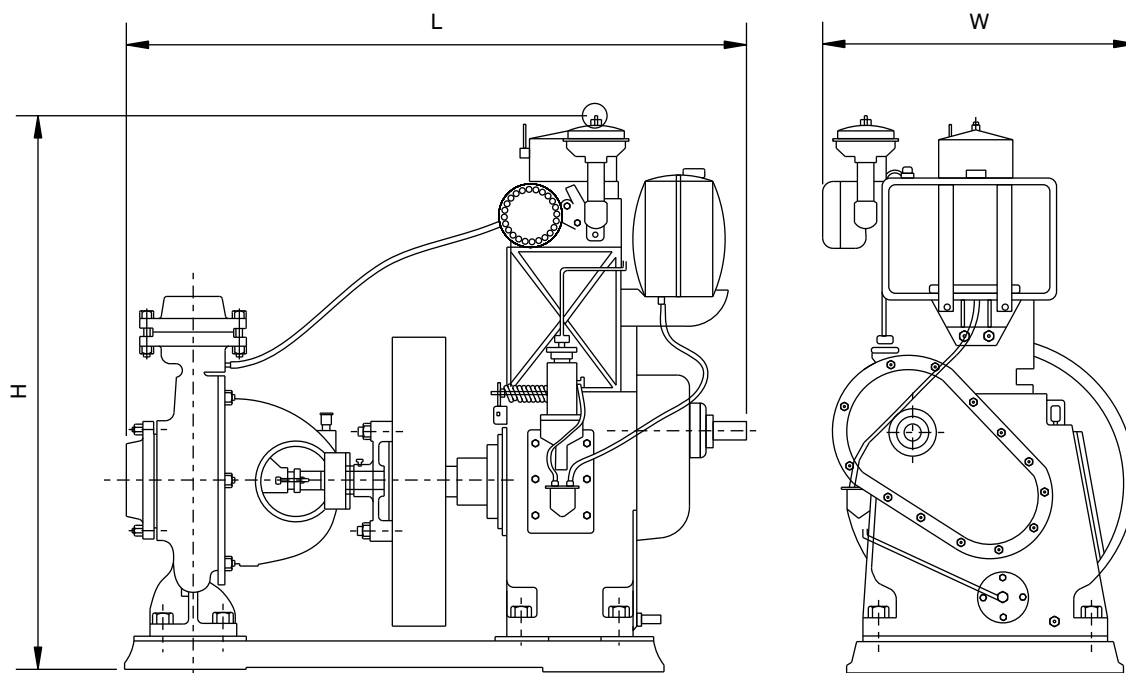
No.	PART	MATERIAL
1	Diesel Engine	–
2	Fly Wheel	Graded Cast Iron
3	Delivery Flange	Graded Cast Iron
4	Pump Coupling	Graded Cast Iron
5	Volute Casing	Graded Cast Iron
6	Gland	Graded Cast Iron
7	Gland Packing Set	Threaded Graphite Cotton
8	Lantern Ring	Brass
9	Sleeve	Brass
10	Impeller	Graded Cast Iron
11	Bracket	Graded Cast Iron
12	Suction Flange	Graded Cast Iron
13	Base Plate	Graded Cast Iron

Rating	Pipe Size Sucx Del (mm)	ENGINE		Total Head in Metres																
		BHP	RPM	5	6	7	9	10	12	13	14	15	17	18	20	21	22	23	24	25
		Discharge LPM																		
CEN5	65 X 50	5.0	1800											840	750	690	600	510		
CEP5	80 x 65	5.0	1500			1300	1250	1220	1110	1050	972	900	700	600						
CEP6.5	80 x 65	6.5	1500							1380	1240	1080	770							
CEP7.5	80 x 65	7.5	1500							1380	1240	1080	770							
CEPH7.5	80 x 65	7.5	1500									1490	1370	1300	1140	1040	930	740		
CER7.5L	100 x 80	7.5	1500	2160	2100	2040	1840	1740	1450	1230	420									
CES7.5L	100 x 100	7.5	1500		2130	2070	1870	1770	1480	1260	450									
CEPH8	80 x 65	8.0	1800									1490	1370	1300	1140	1040	930	740		
CER8	100 x 80	8.0	1500	2160	2100	2040	1840	1740	1450	1230	420									
CES8	100 x 100	8.0	1500		2130	2070	1870	1770	1480	1260	450									
CER10	100 x 80	10.0	1500												1400	1300	1200	1050	840	600
CES10	100 x 100	10.0	1500												1400	1300	1200	1050	840	600
CENL3.5	65 X 50	3.5	1500					780	660	600	510									
CEPL5	80 x 65	5.0	2200					1320	1160	1080	1030	950	630							
CEPL5M	80 x 65	5.0	1500			1300	1250	1220	1110	1050	972	900	800	600						

Notes :-

1. The above performance is at rated speed.
2. The above performance is subjected to tolerances as per applicable standards.
3. Pipe sizes mentioned in mm are nearest conversion of inches, but actual pipe threadings are provided as per 'BSP' standard.
4. Total Head = Static Suction + Static Delivery + Losses in Pipes, Bends etc.

DIMENSIONS & SHIPPING SPECIFICATIONS



Diesel Engine Pumpset

Rating	Dimensions (mm)			Net. Weight (kg) Engine + Pump + Base Plate
	L	W	H	
CEP5	800	480	900	179
CEP6.5	800	480	900	189
CEPH8	800	480	900	202
CER8	800	480	910	250
CES8	800	480	910	250
CENL3.5	685	395	796	121
CEN5	685	395	807	122
CEPL5	685	395	807	122

All Flanges are with 'BSP' threads

PETROL START KEROSENE RUN ENGINE PUMPSETS



In today's scenario of power scarcity and high price of diesel it is necessary for consumers to have product which give solution to overcome this problem. Crompton Greaves petrol start kerosene run engine pump set is right solution and choice for consumers to over come the problem of power scarcity and high diesel costs.

• SALIENT FEATURES :

- 4 Stroke air cooled single cylinder, horizontal shaft engine.
- Better hydraulic performance.
- Easy installation
- Maintenance and trouble-free operations
- Economical as run on kerosene and consumes less fuel.
- Light weight hence easy to handle

• APPLICATIONS :

Irrigation
Lift Irrigation
Gardens, Farms
Construction

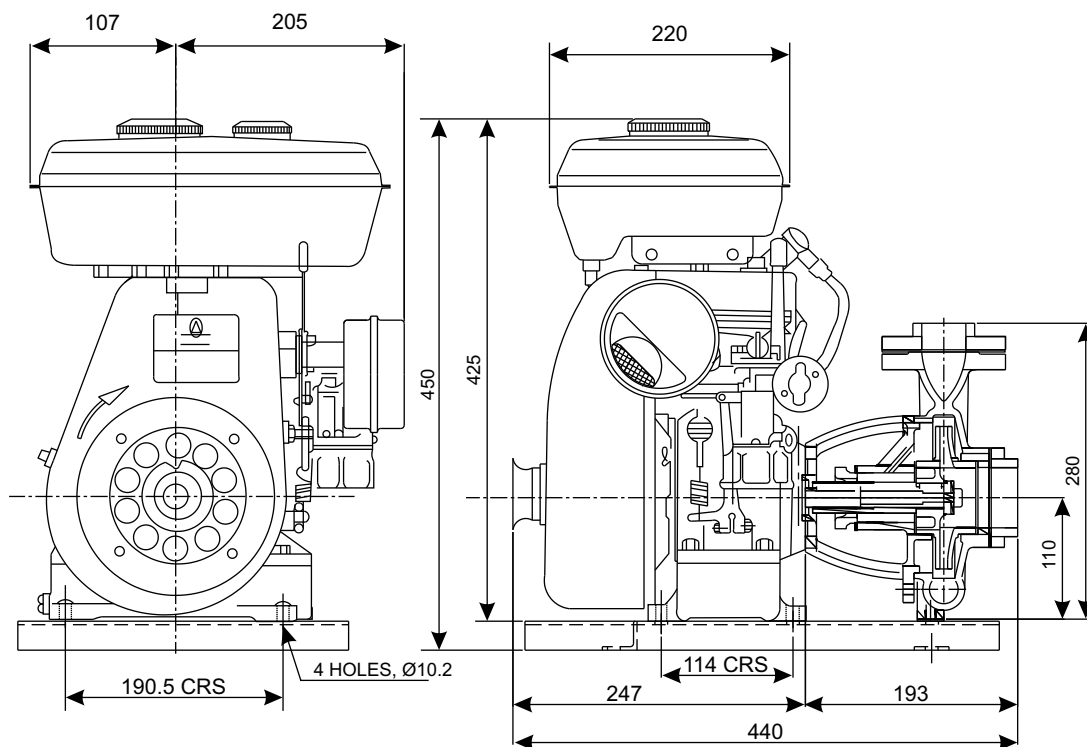
TECHNICAL DATA

Specifications	CG 1.5	CG 3.0
Type	4-Stroke, Side Valves, Single Cylinder, Air Cooled, Horizontal shaft, Constant Speed,	4-Stroke, Side Valves, Single Cylinder, Air Cooled, Horizontal shaft
Bore & Stroke	55x50mm	68x53mm
Displacement cc	118	192
Fuel	Petrol Start / Kerosene Run	Petrol Start / Kerosene Run
Fuel Tank Capacity (Litres)	Kerosene 2.5, Petrol-0.5	Kerosene 3.5, Petrol-0.5
Ignition System (Spark Ignited)	Fly Wheel Magneto	Fly Wheel Magneto
Maximum out put kW (HP)	1.1 (1.5) 3000RPM	2.7 (3.6) 3600 4000 RPM
Compression Ratio	4.5 : 1	4.8:1
Starting System	Rope Start (Recoil starter optional)	Recoil Start
Lubricating Oil Capacity	570ml	700ml
Dry Weight	15kg	18kg

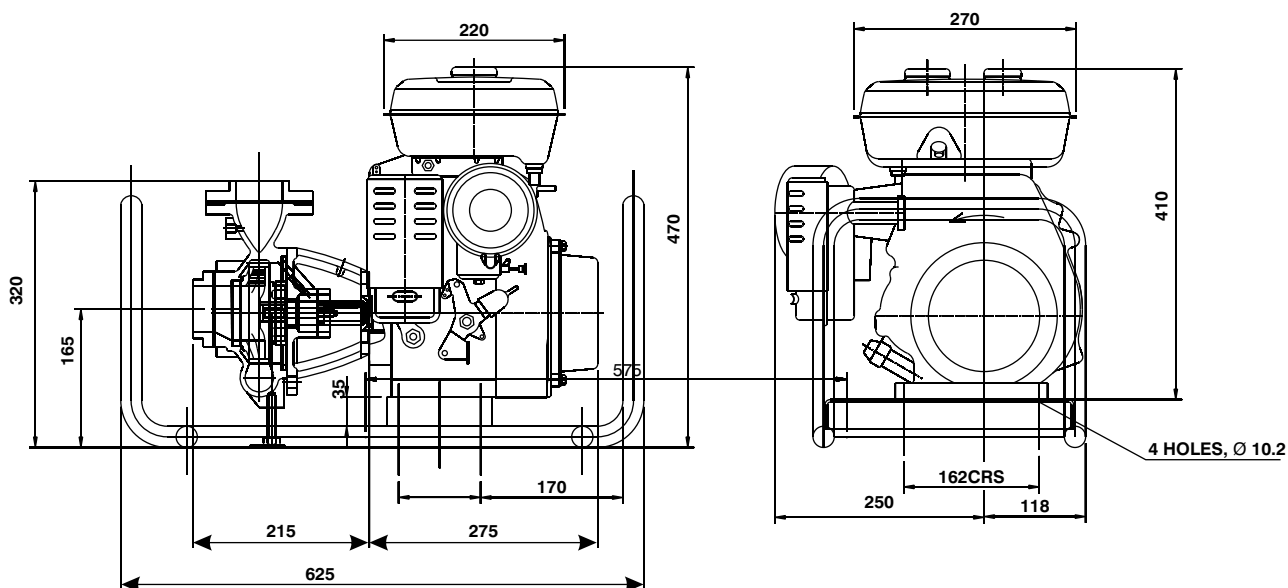
PERFORMANCE CHART

			Total head in Metres							
CAT. REF.	HP	PIPE SIZE	7.5	9	10.5	12	13.5	15	16.5	18
			Discharge in LPM							
CKEM1.5G	1.5	50*50	435	405	370	325	270	210		
CKEM3G	3.0	50*50			660	650	625	590	460	220

CKEM 1.5G PUMP SECT. VIEW



CKEM 3G PUMP SECT. VIEW



SELF PRIMING SIDE CHANNEL COUPLED PUMPS



Crompton Greaves Self Priming Side Channel Coupled Pumps are developed for various needs of handling water. These pumps are power driven, horizontal, segmental, self priming and capable of handling gases during liquid duty. The components providing the hydraulic effect are specifically designed, following the Mechanical Assembly Technique (M.A.T.) for high hydraulic efficiency.

Features

- Self-priming upto 8 metres at mean sea level.
- Segmental and capable of handling gases during operations.
- Flexibility of selection of different motor ratings for desired performance.
- Easy coupling with motor possible at site.
- Suitable for water upto 100°C.
- Normally supplied without electric motor which can be offered on request.

Applications

These pumps are self priming and can handle gases during normal

liquid duty. These are used where low discharge is needed at high heads. The pumps are designed for handling water and are suitable for following applications.

- Water supply for buildings, industrial and commercial establishments.
- For Ornamental fountains.
- For water supply in small villages in hilly areas, and multistoried buildings.
- For boosting pressure.
- For conveying fresh or condensate water for boiler feed.
- Water spraying for curing purpose in building construction.
- For cleaning plant and equipment in Industrial and Commercial Establishments.
- For general industrial use for pumping water.

Standard Specifications

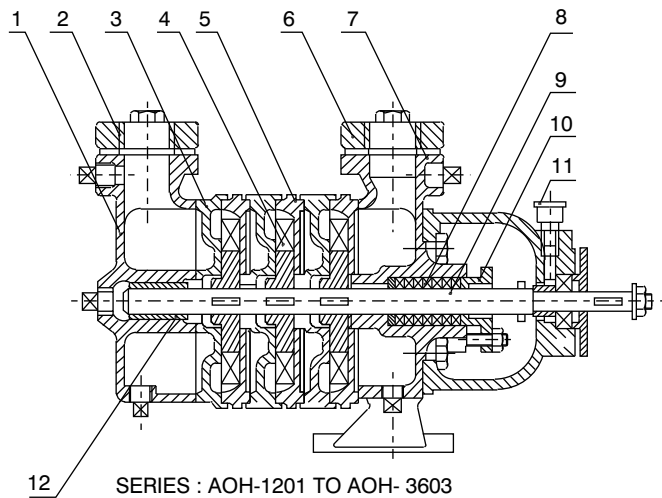
- **Pump** : Bare Pump (without Motor).
- **Capacity** : 400 to 20,000 LPH.
- **Total head** : 6 to 115 metres.
- **Speed** : Approx. 1450 RPM at 50Hz supply.
- **Temperature Range** : 0 to 100°C

- **Liquid** : Clear water
- **Casing pressure** : 12 kg / cm².
- **Shaft sealing** : Stuffing box.
- **Connections** : 'BSP' threads in counter flanges.
- **Direction of rotation** : Clockwise when looking at the pump from driving end.

Construction

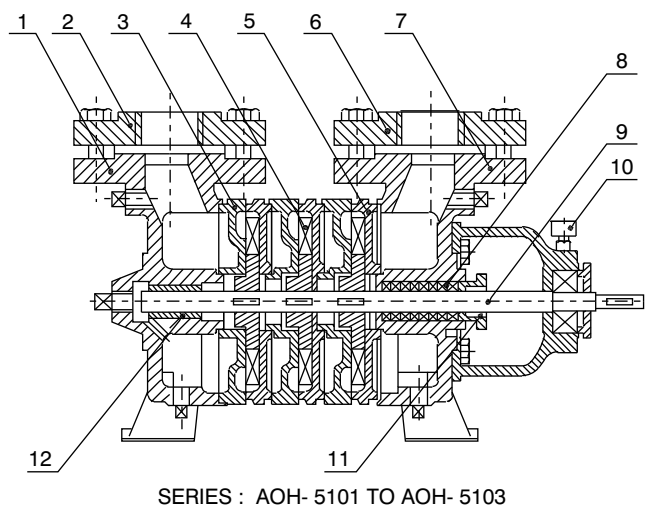
- **Position of Pump Orifices** : Top Suction and Top Delivery openings.
- **Flanges** : Counter flanges are provided with female pipe threads. They are supplied together with the pump, including joints, screws and nuts.
- **Bearings** : One grease lubricated deep groove ball bearing for which the initial filling with grease is done in the factory. One sleeve bearing, flushed by the liquid handled.
- **Shaft Sealing** : The shaft passage is sealed by a stuffing box.
- **Casing Joints** : The joint of casings is through a special oil paper gasket.

CONSTRUCTION



No.	PART	MATERIAL
1	Delivery Chamber	Graded Cast Iron
2	Delivery Flange	Graded Cast Iron
3	Delivery Casing	Graded Cast Iron
4	Impeller	High Tensile Brass
5	Suction Casing	Graded Cast Iron
6	Suction Flange	Graded Cast Iron
7	Suction Chamber	Graded Cast Iron
8	Gland Packing Set	Threaded Graphite Cotton
9	Shaft	Stainless Steel (AISI 410)
10	Gland	Graded Cast Iron
11	Grease Cup	M. S.
12	Bearing Bush	Bronze

CONSTRUCTION



No.	PART	MATERIAL
1	Delivery Chamber	Graded Cast Iron
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10	Grease Cup	M. S.
11	Gland	Graded Cast Iron
12	Bearing Bush	Bronze

PERFORMANCE CHART

Rating	Pipe Size Suc.x Del. (mm)	Required Motor kW (HP)	No. of Stages	Discharge in LPH								
				400	800	1200	1600	2000	2400	2500		
				Total Head in Metres								
AOH-1201	25 x 25	0.4 (0.55)	1	30	26	22	18	14	11	10		
AOH-1202	25 x 25	0.75 (1.0)	2	55	47	39	32	25	19	18		
AOH-1203	25 x 25	1.1 (1.5)	3	82	68	57	47	37	28	26		
				Discharge in LPH								
				3500	4000	4500	5000	5500	6000	6500	7000	7500
				Total Head in Metres								
AOH-3601	40 x 40	1.1 (1.5)	1	32	29	26	22	19	16	13	9	6
AOH-3602	40 x 40	2.2 (3.0)	2	58	52	47	41	35	30	24	18	13
AOH-3603	40 x 40	3.0 (4.0)	3	87	78	70	61	53	45	36	28	19

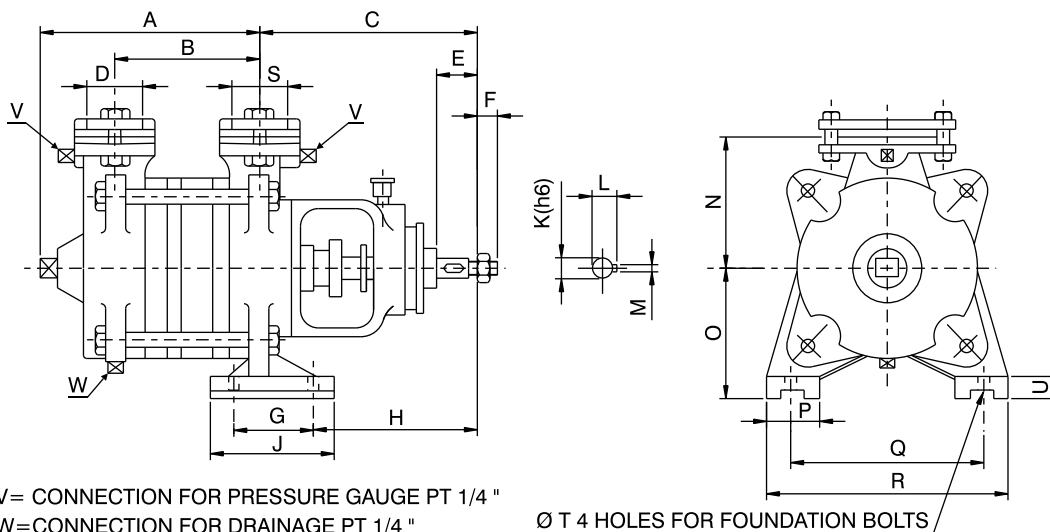
PERFORMANCE CHART

Rating	Pipe Size Suc.x Del. (mm)	Required Motor kW (HP)	No. of Stages	Discharge in LPH										
				10500	11000	12000	13000	14000	15000	16000	17000	18000	19000	20000
				Total Head in Metres										
AOH-5101	50 x 50	3.7 (5.0)	1	38	37.5	37	35	33	30	27	24	21	18	15
AOH-5102	50 x 50	7.5 (10.0)	2	77	75	72	68	63	58	52	46	41	36	28
AOH-5103	50 x 50	11.0 (15.0)	3	115	112	106	100	92	85	76	68	60	50	41

Notes :-

- The above performance is based on 1450 RPM.
- The above performance is based on rated voltage (220+6%-15% for 1 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.
- The self priming time depends upon static suction, installation conditions and the duration of use of the pump.

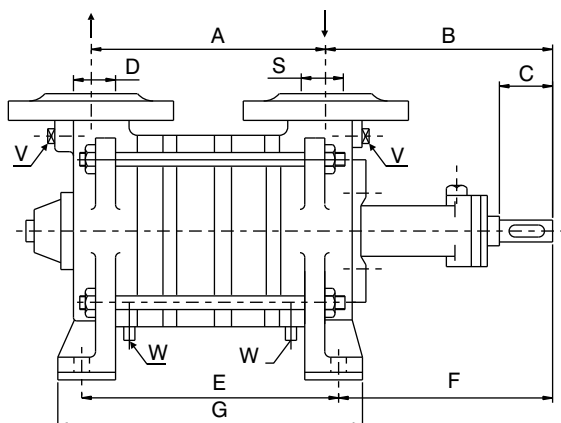
DIMENSIONS & SHIPPING SPECIFICATIONS



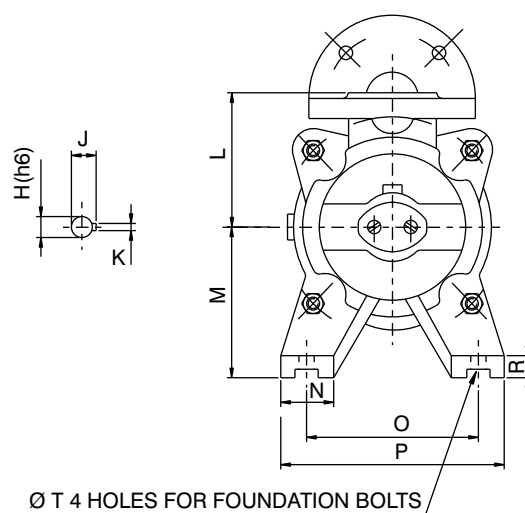
Rating	Dimensions (mm)																		Shipping Specifications		
	A	B	C	E	F	G	H	J	K	L	M	N	O	P	Q	R	T	U	Net Weight Kg.	Gross Weight Kg.	Volume Cu. M.
AOH 1201	118	78	140	21	14	50	122	86	12	15	4	90	90	36	120	156	13	12	10	11	0.014
AOH 1202	152	112	140	21	14	50	122	86	12	15	4	90	90	36	120	156	13	12	11	12	0.016
AOH 1203	186	146	140	21	14	50	122	86	12	15	4	90	90	36	120	156	13	12	13	14	0.018
AOH 3601	140	83	154	27	16	70	104	106	16	18	5	112	112	36	160	196	13	15	14	16	0.025
AOH 3602	180	123	154	27	16	70	104	106	16	18	5	112	112	36	160	196	13	15	17	19	0.028
AOH 3603	220	163	154	27	16	70	104	106	16	18	5	112	112	36	160	196	13	15	21	23	0.031

All flanges are with 'BSP' threads.

DIMENSIONS & SHIPPING SPECIFICATIONS



V= CONNECTION FOR PRESSURE GAUGE PT 1/4 "
W=CONNECTION FOR DRAINAGE PT 1/4 "



Ø T 4 HOLES FOR FOUNDATION BOLTS

Rating	Dimensions (mm)																Shipping Specifications		
	A	B	C	E	F	G	H	J	K	L	M	N	O	P	T	R	Net Weight Kg.	Gross Weight Kg.	Volume Cu. M.
AOH 5101	170	217	50	185	210	220	24	27	7	140	150	47	160	218	13	20	36	74	0.126
AOH 5102	245	217	50	260	210	295	24	27	7	140	150	47	160	218	13	20	46	84	0.126
AOH 5103	320	217	50	335	210	370	24	27	7	140	150	47	160	218	13	20	55	94	0.126

All flanges are with 'BSP' threads.

VERTICAL IN-LINE PUMPS



Crompton Greaves Vertical In-Line Pumps are designed and developed for hot and cold water handling and occupy minimum floor space. These are power driven centrifugal monoset pumps.

Features

- Vertical In-line design means minimum space requirement, easy installation with smooth and quite operation.
- These are single stage, single suction monoset pumps and are mounted by their suction and delivery flanges, with additional support, if required.

- Back pull-out design.
- Flange mounted motor ensures easy maintenance.
- TEFC motor with class 'F' insulation and temperature rise restricted to class 'B' for long life.
- Volute and adaptor are fitted with bronze wearing ring for least internal leakage.
- High quality and long life mechanical seal.
- Suitable for 65°C water with standard mechanical seal and 110°C water with special mechanical seal.
- Rust-free bronze impeller.

Applications

- Water circulation for Cooling Towers in Air Conditioning Plants and Cold Storage Plants.
- Hot water handling systems.
- Water supply and circulation for Industrial and Commercial Establishments.
- Water pressure boosting for Industrial and Sprinkler Systems.
- Auxiliary equipment for water circulation
- Irrigation and dewatering Systems.

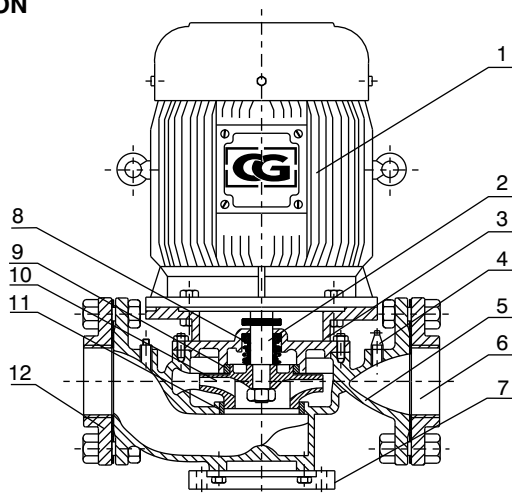
Standard Specifications

- **Range** : 0.37kW to 7.5 kW (0.5 HP to 10.0 HP).
- **Supply** : 415V, 3 Phase, 50Hz, AC.
- **Pipe Size** : 32 x 32 mm to 100 x 100 mm.
- **Total head** : Upto 30 metres.
- **Capacity** : Upto 1400 LPM.
- **Liquid** : Clear water.
- **Rotation** : Anti-clockwise as viewed from motor end.
- **Operating temperature** : Suitable for 65°C water.

Electric Motor

- TEFC, SCR, 2 Pole (3000 RPM syn. speed), Electric Motor 415 V, 3 phase, 50Hz, AC supply with class 'F' insulation and temperature rise restricted to class 'B', for ambient temperature upto 40°C.
- Special Motors with different enclosures, supply voltage, frequency and ambient can be offered on request.

CONSTRUCTION



No.	PART	MATERIAL
1	Motor	—
2	Shaft	Graded Cast Iron
3	Adaptor	Graded Cast Iron
4	Aircock	Brass
5	Volute Casing	Graded Cast Iron
6	Delivery Flange	Graded Cast Iron
7	Base Plate	Graded Cast Iron
8	Mechanical Seal	—
9	Wearing Ring (Adaptor)	Brass
10	Impeller	Graded Cast Iron / Brass
11	Wearing Ring (Volute)	Brass
12	Delivery Flange	Graded Cast Iron

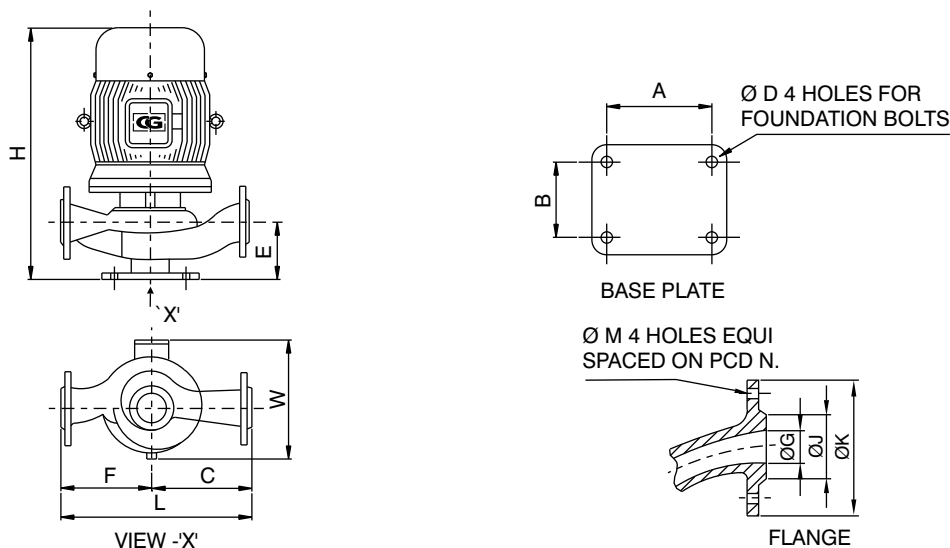
PERFORMANCE CHART

Rating	Pipe size Suc. x Del. (mm)	Motor kW (HP)	Total Head in Metres										
			10	12	14	16	18	20	22	24	26	28	30
			Discharge in LPM										
ILM052/A	32 x 32	0.37 (0.5)	135	105	50								
ILM12/A	40 x 40	0.75 (1.0)	240	215	185	130							
ILM22/A	50 x 50	1.5 (2.0)		400	360	315	250						
ILM32/A	65 x 65	2.2 (3.0)			575	515	440	340					
ILM52/A	80 x 80	3.7 (5.0)					875	800	720	550			
ILM7.52/A	100 x 100	5.5 (7.5)			1300	1260	1200	1110	1000	850			
ILM10.2/A	100 x 100	7.5 (10.0)					1400	1320	1250	1180	1090	1000	900

Notes :-

1. The above performance is based on rated voltage (415+6%-15% for 1 Phase) and rated frequency (50Hz±3%).
2. The above performance is subjected to tolerances as per applicable standards.
3. Pipe sizes mentioned in mm are nearest conversion of inches, but actual pipe threadings are provided as per 'BSP' standard
4. Total Head = Static Suction + Static Delivery + Losses in pipes, bends etc.

DIMENSIONS & SHIPPING SPECIFICATIONS



Rating	Dimensions (mm)														Shipping Specifications		
	A	B	C	D	E	F	G	J	K	M	PCD 'N'	L	W	H	Net Weight Kg.	Gross Weight Kg.	Volume Cu. M.
ILM052/A	120	112	140	12	75	140	32	70	120	14	90	280	200	370	24	41.5	0.08
ILM12/A	120	115	150	12	82	150	40	80	130	14	100	300	210	430	33	54	0.105
ILM22/A	120	120	160	12	100	150	50	90	140	14	110	310	265	475	48	74	0.138
ILM32/A	130	120	180	12	115	165	65	115	185	18	145	345	285	510	59	88	0.16
ILM52/A	135	120	190	12	130	185	80	128	190	18	150	375	315	550	71	101.5	0.182
ILM7.52/A	178	130	255	12	140	235	100	148	210	18	170	490	340	615	101	140.5	0.265
ILM10.2/A	178	130	255	12	140	253	100	148	210	18	170	490	340	650	117	158.5	0.28

All flanges are with 'BSP' threads.

BACK PULLOUT MONOSET PUMPS



Crompton Greaves Back Pullout Monoset Pumps feature an extensive range of power driven centrifugal pumps, designed for a majority of water handling applications - with easy maintenance.

Features

- Single stage, end suction, centrifugal monoset pump.
- Easy maintenance with back pullout design.
- TEFC motor with class 'F' insulation and temperature rise restricted to class 'B'.
- Rust-free stainless steel (AISI 410) shaft.
- High quality and long life mechanical seal. Suitable for 65°C water with standard mechanical seal and 110°C with special mechanical seal.

Applications

- Water supply for buildings, industrial and commercial establishments.
- Water pressure boosting for industrial and sprinkler systems.
- Irrigation.
- Water supply for gardens, farms, fountains, hotels, dairies, hospitals etc.

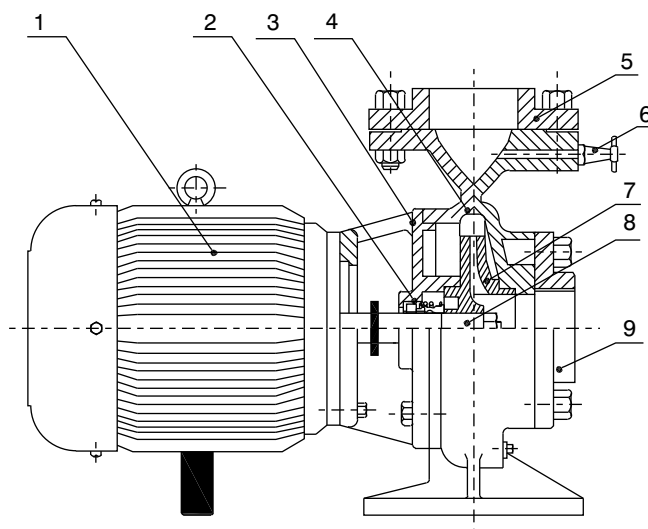
Standard Specifications

- **Range** : 1.5 kW to 15.0 kW (2.0 HP to 20.0 HP).
- **Supply** : 415V, 3 phase, 50Hz, AC.
- **Pipe Size** : 50 x 40 mm to 100 x 100 mm.
- **Total head** : Upto 46 metres.
- **Capacity** : Upto 2320 LPM.
- **Liquid** : Clear water
- **Rotation** : Clockwise as viewed from motor end.
- **Operating Temperature** : Suitable for 65°C water.

Electric Motor

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

CONSTRUCTION



No.	PART	MATERIAL
1	Motor	–
2	Mechanical Seal	–
3	Adaptor	Graded Cast Iron
4	Volute Casing	Graded Cast Iron
5	Delivery Flange	Graded Cast Iron
6	Air Cock	Brass
7	Impeller	Graded Cast Iron / Bronze
8	Shaft	Stainless Steel (AISI 410)
9	Suction Flange	Graded Cast Iron

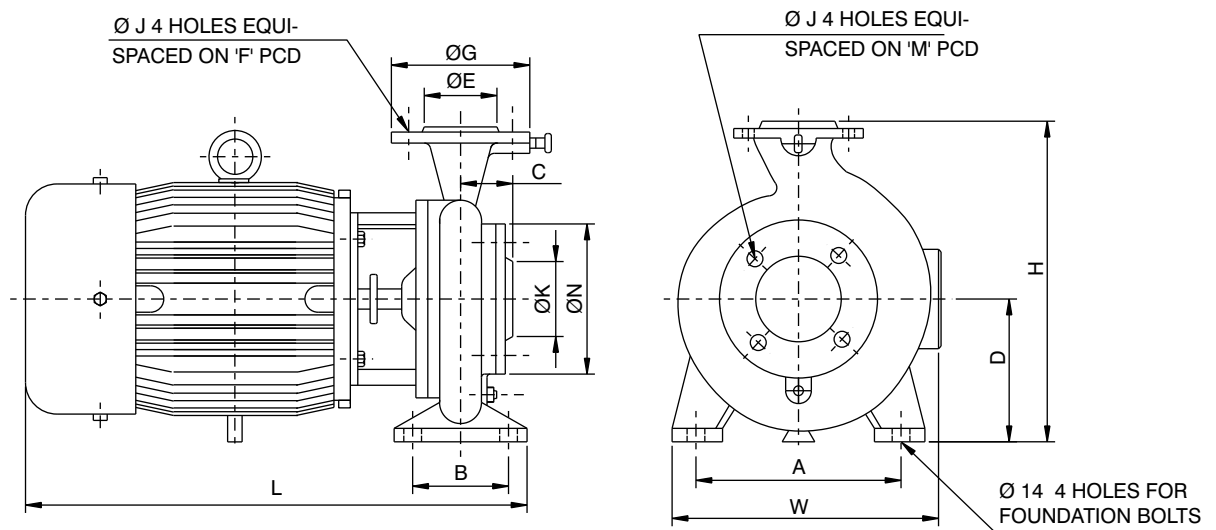
PERFORMANCE CHART

Rating	Pipe Size Suc.x Del. (mm)	Motor kW (HP)	Total Head in Metres																
			14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46
			Discharge in LPM																
IPM22	50 x 50	1.5 (2.0)	350	335	315	290	265	225	175										
IPK32	50 x 40	2.2 (3.0)		385	355	320	285	235	175										
IPM32	50 x 50	2.2 (3.0)	420	400	380	355	335	310	285	260	230	190	150						
IPM42	50 x 50	3.0 (4.0)				420	405	385	365	345	315	285	250	185					
IPM5.52	50 x 50	4.0 (5.5)							450	435	420	405	390	370	350	325	300	260	200
IPO7.52	65 x 65	5.5 (7.5)							800	700	590	470	300						
IPP7.52	80 x 65	5.5 (7.5)					850	800	740	670	600	515	350						
IPQ7.52	80 x 80	5.5 (7.5)						810	735	660	575	465	350						
IPO10.2	65 x 65	7.5 (10.0)							920	880	820	750	650	520	350				
IPP10.2	80 x 65	7.5 (10.0)							920	880	820	750	650	520	350				
IPQ10.2	80 x 80	7.5 (10.0)					1340	1180	970	600									
IPR15.2	100 x 80	11.0 (15.0)						1880	1790	1690	1580	1440	1280	1000					
IPS20.2	100 x 100	15.0 (20.0)						2320	2240	2160	2060	1980	1880	1780	1670	1550	1400	1100	

Notes :-

1. The above performance is based on rated voltage (415+6%-15% for 1 Phase) and rated frequency (50Hz±3%).
2. The above performance is subjected to tolerances as per applicable standards.
3. Pipe sizes mentioned in mm are nearest conversion of inches, but actual pipe threadings are provided as per 'BSP' standard.
4. Total Head = Static Suction + Static Delivery + Losses in pipes, bends etc.

DIMENSIONS & SHIPPING SPECIFICATIONS



Rating	Dimensions (mm)														Shipping Specifications		
	A	B	C	D	E	PCD 'F'	G	J	K	PCD 'M'	N	L	W	H	Net Weight Kg.	Gross Weight Kg.	Volume Cu. M.
IPM22	130	118	40	132	90	110	140	14	90	110	140	455	240	275	43.5	64	0.116
IPK32	180	151	40	163	90	110	140	14	90	110	140	495	275	325	52.5	76.5	0.147
IPM32	180	151	40	163	90	110	140	14	90	110	140	495	275	325	52.5	74.5	0.125
IPM42	180	151	40	163	90	110	140	14	90	110	140	495	275	325	54	78	0.147
IPM5.52	180	151	43	163	90	110	140	14	90	110	140	520	285	355	65	92	0.17
IPO7.52	220	180	47	190	110	145	180	14	110	145	180	590	330	375	90	120.5	0.203
IPP7.52	220	180	46	190	110	145	185	14	110	145	185	590	330	375	90	121.5	0.203
IPQ7.52	220	180	47	190	110	145	180	14	110	145	180	590	330	375	90	120.5	0.203
IPO10.2	220	180	46	190	110	145	185	14	110	145	185	630	330	375	106	137.5	0.203
IPP10.2	220	180	46	190	110	145	185	14	110	145	185	630	330	375	106.5	138	0.203
IPQ10.2	212	95	47	160	130	160	200	18	130	160	200	585	330	360	104.5	135	0.203
IPR15.2	254	180	50	202	138	160	200	18	155	180	220	630	350	427	119	164.5	0.331
IPS20.2	254	180	50	202	155	180	220	18	155	180	220	700	420	429	173.5	219	0.331

All flanges are with 'BSP' threads.

SELF PRIMING CENTRIFUGAL MONOSET PUMPS-PS Series



Crompton Greaves Self Priming Centrifugal Monoset 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 8.0 mm, dewatering etc.

Features

- Self Priming Pump - i.e. priming required during installation only. Self priming feature is upto 6 metres at mean sea level.

- Compact monoset construction.
- Sealing - mechanical seal.
- Totally enclosed fan cooled motor suitable for wide voltage.
- Non clog type impeller design facilitates for small solid admixture handling.
- Stainless steel shaft and wear plate.
- Bronze impeller for trouble free operation.

Applications

- Irrigation.
- For dewatering contaminated water.
- For drainage water.
- Waste water / effluent treatment plant.
- Civil construction - dewatering of foundation trenches etc.

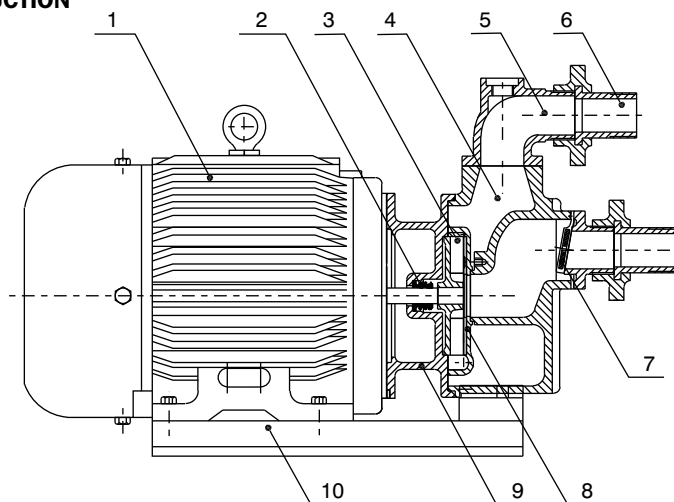
Standard Specifications

- **Range** : 0.75 kW (1.0 HP) & 1.1 kW (1.5 HP).
- **Supply** : 415 Volts, 3 Phase or 225 Volts 1 Phase, 50Hz. AC.
- **Pipe size** : 40 x 40 mm and 50 x 50 mm.
- **Liquid** : Water.
- **Total Head** : Upto 18 metres.
- **Capacity** : Upto 335 LPM.
- **Rotation** : Clockwise as viewed from motor end.
- **Operating Temperature** : Upto 65°C.

Electric Motor

- TEFC, SCR, 2 pole (3000 RPM Syn. speed) Electric motor suitable for 415 Volts 3 phase or 225 Volts 1 phase, 50 Hz, AC supply with class 'B' insulation, for ambient upto 40°C.

CONSTRUCTION



No.	PART	MATERIAL
1	Motor	—
2	Mechanical Seal	—
3	Impeller	Bronze
4	Casing	Graded Cast Iron
5	Delivery Bend	Graded Cast Iron
6	Hose Nipple	Graded Cast Iron
7	Non Return Valve	Nitrile Rubber with M. S. Plate
8	Guide Plate	Stainless Steel
9	Bracket	Graded Cast Iron
10	Base Plate	M. S. (Fabricated)

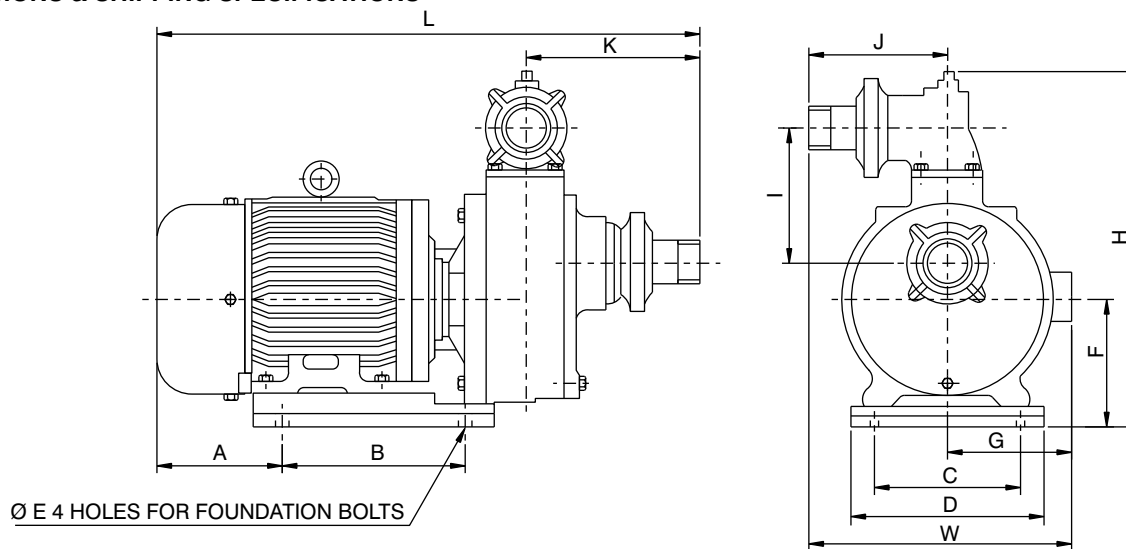
PERFORMANCE CHART

Rating	Pipe Size Suc. x Del. (mm)	Motor kW (HP)	Max. size of Solid Handled (mm)	Total Head in Metres					
				8	10	12	14	16	18
				Discharge in LPM					
PS 12/PS 12 (3 Ph)	40 x 40	0.75 (1.0)	8.0	240	215	175	130	80	
PS 1.52/PS 1.52 (3 Ph)	50 x 50	1.1 (1.5)	8.0		335	300	250	180	90

Notes :-

1. 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%).
2. The above performance is subjected to tolerances as per applicable standards.
3. Total Head = Static Suction + Static Delivery + Losses in pipes, bends etc.

DIMENSIONS & SHIPPING SPECIFICATIONS



Rating	Dimensions (mm)													Shipping Specifications		
	A	B	C	D	E	F	G	I	J	K	L	W	H	Net Weight Kg.	Gross Weight Kg.	Volume Cu. M.
PS 12/PS 12 (3 Ph)	120	240	230	265	12	145	—	135	135	170	560	240	360	38	67	0.199
PS 1.52/PS 1.52 (3 Ph)	105	290	255	285	12	145	150	150	140	175	580	250	395	49	78	0.199

All flanges are with 'BSP' threads.

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.
- TEFC, SCR, 2 pole (3000 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 upto 40°C.
- 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 Filtration. Dewatering basements and trenches.
- Marine : Pumping water from docks, ports, vessels
- Agriculture : Dewatering.

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						

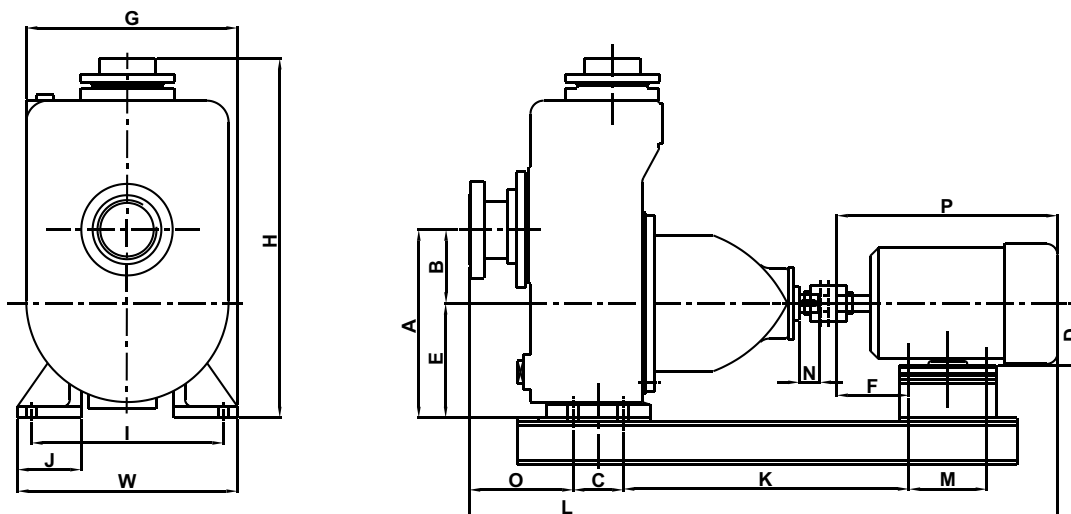
PERFORMANCE CHART - DEWATERING MONOBLOC PUMP

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
			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
DWMQ7.52	80 X 80	5.5 (7.5)									910	890	865	820	760	685	600	520

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

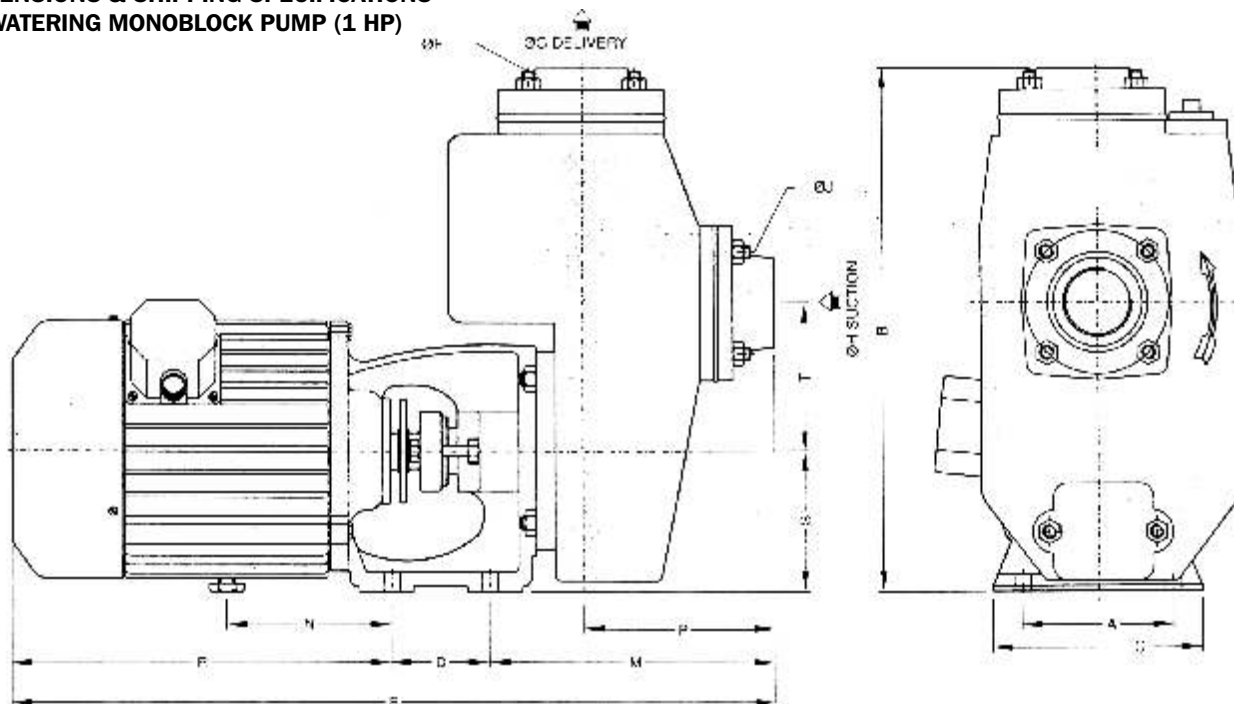
**DIMENSIONS & SHIPPING SPECIFICATIONS
DW COUPLED PUMPSET**



SR. NO.	RATING	PIPE SIZE MM	OVERALL DIMENSIONS																	NET WT. Kg.	GROSS WT. Kg.
			A	B	C	D	E	F	G	I	J	K	M	N	O	P	L	W	H		
1	DWCJ 12 (1HP)	40x40	145	66	64	79	79	90	185	165	40	423	100	22	55	278	725	195	295	51.00	73.600
2	DWCJ 22(2HP)	40x40	230	100	80	90	130	106	259	220	75	441	100	25	137	320	881	250	420	83.700	122.200
3	DWCM 32(3HP)	50x50	220	90	80	90	130	06	245	220	75	441	125	25	125	345	924	250	415	83.700	122.200
4	DWCQ 3(5HP)	80x80	380	174	90	112	206	130	325	292	56	504	140	30	146	397	1017	335	562	140.00	197.500

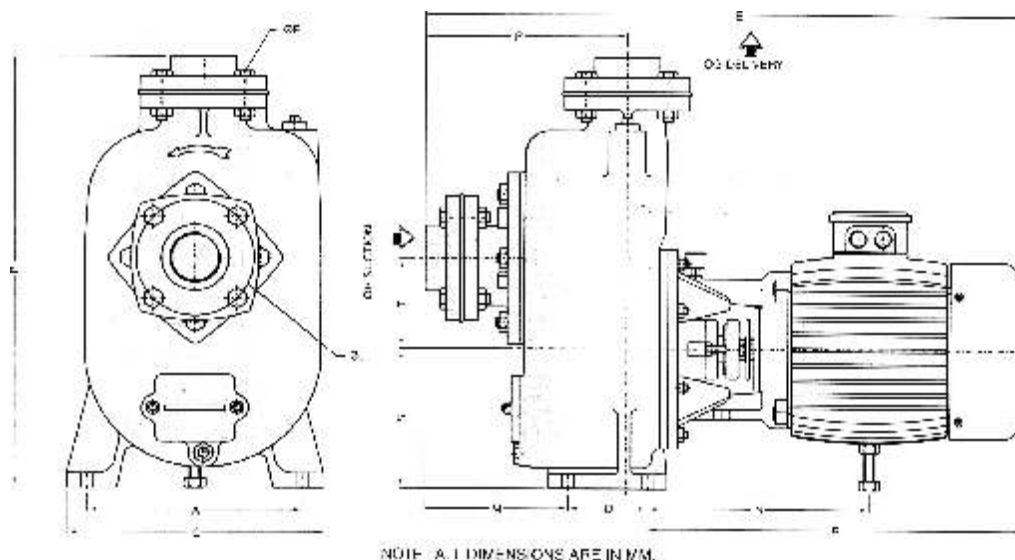
All flanges are with 'BSP' threads.

**DIMENSIONS & SHIPPING SPECIFICATIONS
DEWATERING MONOBLOCK PUMP (1 HP)**



Model	A	B	C	D	E	ØF	ØG	ØH	J	M	N	P	R	S	T
DWMJ12(1PH)	114.00	359.00	145.00	67.00	577.00	107.00	1.1/2"BSP	1.1/2"BSP	100.00	201.00	132.00	136.50	309.00	98.50	103.00
DWMJ12	114.00	359.00	145.00	67.00	542.50	107.00	1.1/2"BSP	1.1/2"BSP	100.00	201.00	116.00	136.50	274.00	98.50	103.00

**DIMENSIONS & SHIPPING SPECIFICATIONS
DEWATERING MONOBLOCK PUMP**



NOTE: ALL DIMENSIONS ARE IN MM.

Model	A	B	C	D	E	ØF	ØG	ØH	J	M	N	P	R	S	T
DWMJ22	220.00	402.00	253.00	80.00	617.00	107.00	1.5"BSP	1.5"BSP	107.00	136.00	243.00	185.00	401.00	130.00	79.50
DWMM32	220.00	430.00	253.00	80.00	664.00	107.00	2"BSP	2"BSP	107.00	141.00	264.50	207.00	446.00	130.00	88.00
DWMQ5	292.00	545.00	332.00	90.00	673.00	140.00	3"BSP	3"BSP	155.55	152.00	233.00	175.00	435.00	203.00	172.50
DWMQ52	259.50	515.00	308.00	95.50	731.00	140.00	3"BSP	3"BSP	140.00	174.00	264.00	232.00	465.00	170.00	109.00
DWMQ7.52	259.50	515.00	308.00	95.50	770.00	140.00	3"BSP	3"BSP	140.00	174.00	281.00	232.00	505.00	170.00	109.00

AIR TANK COMPRESSOR



Features

- Very high operating efficiency with close tolerance production.
- Enhanced cooling efficiency due to closely finned cylinder head, supported by fan and inter-cooler.
- Connecting rod and crank shaft made out of forged alloy steel.
- Splash lubrication and equipped with oil level indicator.
- Efficient Air Filter design and Silencer incorporated.
- Valves are finger plate type for easy flow and are self scavenging.
- Non-return valves are robust in construction that can be easily dismantled and assembled.
- Air receivers are hydraulically tested, manholes are provided for easy access for cleaning and maintenance in big size receivers.
- Tested to IS-5456.

Applications

- Garages
- Textile units
- Spray painting
- Blasting
- Pneumatically operated fixtures
- Chuck cleaning
- Testing valve systems

TECHNICAL SPECIFICATIONS

Rating	Motor kW (HP)	No. of Cylinder	Tank Capacity (Ltrs)	RPM	FAD			Displacement			Max. Pressure	
					CFM	LPM	M ³ /Hr.	CFM	LPM	M ³ /Hr.	kg/cm ²	PSI
140TC0.5 140TCM0.5	0.37 (0.5)	1	40	650	2.0	55	3.4	2.7	77	4.6	4	57
170TC1 170TCM1	0.75 (1.0)	1	70	910	2.45	70	4.2	3.5	100	5.9	6	86
190TC1 190TCM1	0.75 (1.0)	1	90	910	2.45	70	4.2	3.5	100	5.9	6	86
1110TC1 1110TCM1	0.75 (1.0)	1	110	1150	3.5	100	5.9	5.0	142	8.5	9	129
1110TC1.5 1110TCM1.5	1.1 (1.5)	1	110	850	4.1	116	7.0	5.6	160	9.5	9	129
1130TC1.5 1130TCM1.5	1.1 (1.5)	1	130	850	4.1	116	7.0	5.6	160	9.5	9	129
1160TC2 1160TCM2	1.5 (2.0)	1	160	1070	4.9	140	8.3	7.0	200	12.0	9	129
2110TC1.5 2110TCM1.5	1.1 (1.5)	2	110	650	4.2	119	7.1	6.0	170	10.2	9	129
2130TC1.5 2130TCM1.5	1.1 (1.5)	2	130	650	6.5	185	10.9	8.6	245	14.6	9	129
2130TC2 2130TCM2	1.5 (2.0)	2	130	650	5.8	165	9.9	8.3	235	14.1	9	129

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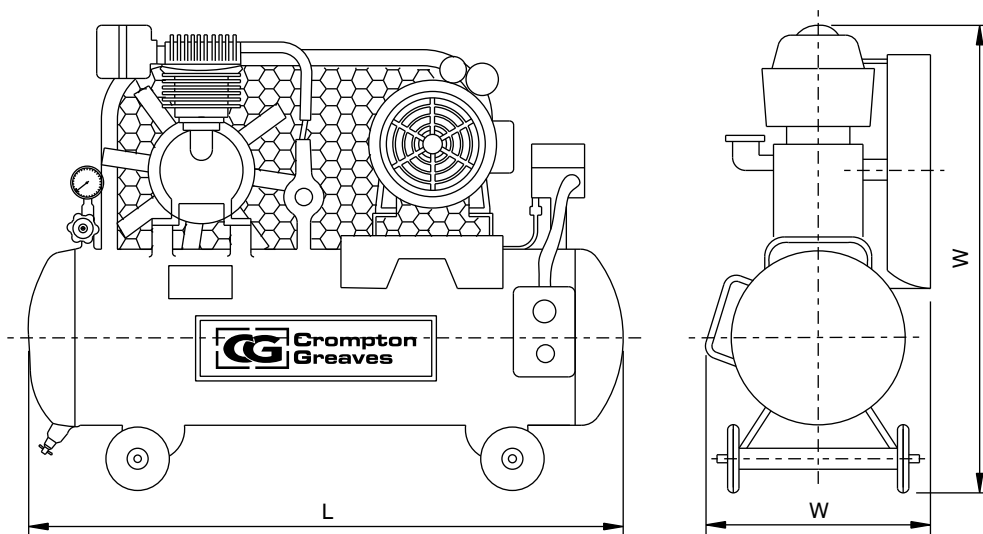
Technical Specifications (Continued)

Rating	Motor kW (HP)	No. of Cylinder	Tank Capacity (Ltrs)	RPM	FAD			Displacement			Max. Pressure	
					CFM	LPM	M ³ /Hr.	CFM	LPM	M ³ /Hr.	kg/cm ²	PSI
2160TC2 2160TCM2	1.5 (2.0)	2	160	600	7.2	205	12.2	10.3	292	17.5	9	129
2160TC3 2160TCM3	2.2 (3.0)	2	160	725	10.1	286	17.1	14.5	410	24.6	9	129
2250TC3 2250TCM3	2.2 (3.0)	2	250	725	9.75	276	16.5	13.0	370	22.1	9	129
2250TC5 2250TCM5	3.7 (5.0)	2	250	925	14.8	422	25.3	21.2	603	36.0	9	129
170TC1E	0.75(1.0)	1	70	1150	3.5	100	5.9	5	142	8.5	9	129
190TC1E	0.75(1.0)	1	90	1150	3.5	100	5.9	5	142	8.5	9	129
1110TC1E	0.75(1.0)	1	110	1150	3.5	100	5.9	5	142	8.5	9	129
125TC0.5MB	0.37(0.5)	1	25	1400	2.4	70	3.6	3.1	88	5.3	5	71
130TC0.5MB	0.37(0.5)	1	30	1400	2.4	70	3.6	3.1	88	5.3	5	71
140TC0.5MB	0.37(0.5)	1	40	1400	2.4	70	3.6	3.1	88	5.3	5	71
22160TC2	1.5(2.0)	2	160	600	5.18	147	8.8	6.9	196	11.7	12	171
22160TC3	2.2(3.0)	2	160	850	7.6	215	12.9	10.1	287	17.17	12	171
22250TC5	3.7(5.0)	2	250	775	14.14	401	24.0	18.8	535	32	12	171
22250TC7.5	5.5(7.5)	2	250	930	16.4	465	27.9	21.9	620	37.2	12	171
32500TC10	7.5(10.0)	3	500	750	26.5	750	45.0	35.3	1000	60	12	171
32500TC15	11.0(15.0)	3	500	1050	39	1105	66.3	52	1475	88.4	12	171

Notes :-

1. Tank Compressors having rating reference as 140TC0.5 are bare compressors without electricals.
2. Tank Compressors having rating reference as 140TCM0.5 are with motor and electricals duly fitted.
3. Key to Rating Reference: 140TC0.5 / 140TCM0.5
1st digit - Number of cylinder, Next 2 or 3 digits-Tank Capacity in litres, TC/TCM -Tank Compressor without electricals/ with electricals, Last digits - HP.
4. Key to Rating Reference: 170TC1E
1st digit - Number of cylinder, Next 2 or 3 digits-Tank Capacity in litres, TC/TCM -Tank Compressor without electricals/ with electricals, Last digits - HP, E-ECO Model
5. Key to Rating Reference: 125TC0.5MB
1st digit - Number of cylinder, Next 2 or 3 digits-Tank Capacity in litres, TC/TCM -Tank Compressor without electricals/ with electricals, Last digits - HP, MB-Monoblock construction

DIMENSIONS



Rating	Tank Capacity Litre	Dimensions			Net. weight (kg.)	Gross. weight (kg.)
		L	W	H		
140 TC 0.5	40	915	460	815	72	122
170 TC 1	70	1120	460	865	88	148
190 TC 1	90	1120	585	940	102	167
1110 TC 1	110	1120	585	940	102	167
1110 TC 1.5	110	1120	585	940	110	175
1130 TC 1.5	130	1195	660	1070	111	181
1160 TC 2	160	1400	660	1120	131	206
2110 TC 1.5	110	1120	660	1320	110	186
2130 TC 1.5	130	1195	635	865	124	194
2130 TC 2	130	1195	635	1145	160	230
2160 TC 3	160	1525	740	1145	195	270
2250 TC 3	160	1730	815	1145	240	330
2250 TC 5	250	1730	815	1350	263	350
170TC1E	70	400	220	350	65	115
190TC1E	90	400	220	350	65	115
1110TC1E	110	400	220	350	65	115
125TC0.5MB	25	270	150	270	38	80
130TC0.5MB	30	270	150	270	38	80
140TC0.5MB	40	270	150	270	38	80
22160TC2	160	1529	737	1245	190	270
22160TC3	250	1529	737	1245	198	274
22250TC5	250	1727	813	1346	270	348
22250TC7.5	250	1727	813	1346	290	368
32500TC10	500	1825	900	1475	395	490
32500TC15	500	2108	914	1499	450	545

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Fax (0141) 5606550

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BRANCH DETAILS

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Fax (011) 23324360, 23352134, 23731475
e mail. anil.keshwani@cgl.co.in

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Jaipur - 302001
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Fax (0141) 2365371
e mail. vineet.garg@cgl.co.in

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Tel. (0181) 3240990-93
Fax (0181) 23324360, 23352134
e mail. jivan.manan@cgl.co.in

Village Khajuria, Outside Jalandhar Octroi,
Post, Phagwara Road, G.T. Road,
Dist. Kapurthala, Jalandhar - 144002
Tel. (0181) 2632199, 2632187
Plot no. 281, Industrial area, Phase 2,
Chandigarh - 160002.
Tel. (0172) 2659764
Fax (0172) 2657402

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Saran Chambers II, 3rd Floor, 5 Park Road,
Lucknow - 226012.
Tel. (0522) 3018852/55
Fax (0522) 2237009

B-2, Transport Nagar, Lucknow - 226001

Tel. (0522) 2432345, 2433132
e mail. devesh.pandey@cgl.co.in

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Fax (033) 22829942, 22824818
e mail. saikat.bhattacharjee@cgl.co.in

21, R.N. Mukherjee Road, kolkata - 700071.

Tel. (033) 22489160, 22488911
Fax (033) 22489737

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Bhubneshwar - 751009
Tel. (0674) 2531128, 2531429, 2531277
Fax (0674) 2533521
e mail. subhash.mohanty@cgl.co.in

Janpath Tower, 3rd Floor, Ashok nagar Unit II,
Ashok nagar Unit II, Bhubneshwar - 751009
Tel. (0674) 2531128, 2531429, 2531277
Fax (0674) 2533521

PATNA

Vishwasadan, Behind Jeevan Deep Bldg,
East of Narmada Apartment, Exhibition Road,
Patna - 800001.
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