

Product Name: End Suction Bare Pump

Series Names – CG EP Series (End Suction Pump Series)

Design:

- Standard as per DIN 24255
- Suction and delivery flanges as per DIN 2533 (PN16)
- Back pull out, End Suction with top discharge outlet
- Single stage pumps
- Gland packing/ Mechanical seal
- Dynamically balanced Impeller as per ISO 1940-1, IS 21940-216
- Grease lubricated antifriction Bearing
- Stainless Steel Sleeve to protect shaft from wear out.

Product Features:

- Hydraulic parts with "Rust preventive/Anticorrosive Coating"
- Excellent sealing with high durability O-Ring used
- Maximum Bearing to Bearing span for higher durability
- Hydraulic parts designed in CFD (Computerised Fluid dynamics)

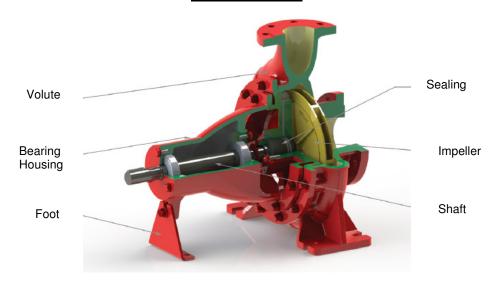
Product Specification:

- Flow up to 250 m³/hr
- Head up to 150 meter
- Temperature 20 Deg to 120 Deg
- Delivery size : 32 to 125mm

Application:

- Commercial buildings like multistory apartments, hospitals, malls,
 Warehouse, Industries, Govt buildings & Schools etc..
- Fire prone manufacturing industries
- Hotels & residential apartments
- Ports & shipyards

Pump Section View





Registered Office:

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Product Specification

CG Cat Ref	Pipe Size- Suction x Delivery (mm)	Head Range (Meter)	Discharge Range (m³/hr)	BEP Head (meter)	BEP Discharge (m³/hr)	Best Efficiency (%)	Max Power (kW/HP)
CGEP32200A	50X32	61-20	2.5-25	52	18	50	7.5/10
CGEP32260A	50X32	95-40	5-30	82	25	42	15/20
CGEP50200A	65X50	65-25	20-80	54	64	73	15/20
CGEP65200A	80X65	63-30	25-150	55	112	76	30/40
CGEP65260A	80X65	95-50	25-155	89	120	74	55/75
CGEP80200A	100X80	64-25	50-225	55	190	80	45/60
CGEP80260A	100X80	96-40	50-230	85	185	78	75/100
CGEP80320A	100X80	150-70	50-265	132	207	74	125/170
CGEP100400A	125X100	57-33	50-225	53	175	72	55/75

Cat Ref Definition

CGEP32200A	CG	EP	32	200	А
Cat Ref	CGPISL	End Suction Pump Series	Delivery Pipe size(mm)	Nominal Impeller Diameter (mm)	MOC Reference

Material of construction (MOC Table)

MOC Code	Volute Casing	Impeller	Shaft	Shaft Sleeve	Sealing
А	GREY CAST IRON IS210 FG 260	GREY CAST IRON IS210 FG 260	Alloy Steel (AISI4140) EN19	Stainless Steel ASTM A276 TY410	Gland Packing
B*	GREY CAST IRON IS210 FG 260	Bronze IS310 LTB 2	Carbon Steel IS1570 40C8	Stainless Steel ASTM A276 TY410	Gland Packing

*Optional on request

Recommend to use CG make Motor.

Recommendation

- Motor shall be selected considering safety margin of 10 to 20%
- Piping size to be considered higher than selected pump (Suction & Delivery) Size
- To offer pump set as per TAC/NAFS norms, Contact CG representative.



CGEP32200

PERFORMANCE CURVE OF PUMP

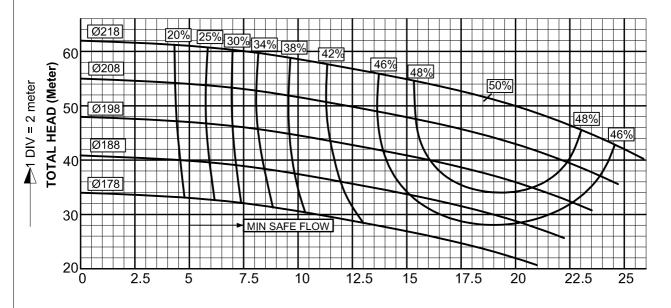
SUCTION = 50mm

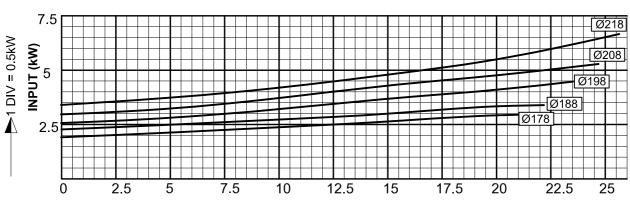
DELIVERY = 32mm

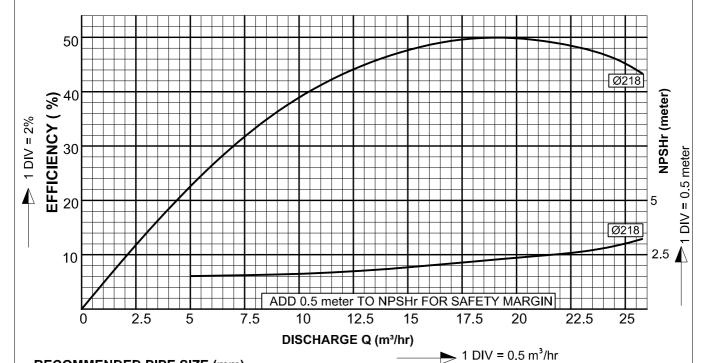
THIS CURVE RELATES TO SP GRAVITY 1 AND VISCOSITY AS WATER

SPEED=2900 RPM(NOMINAL)









50

32

RECOMMENDED PIPE SIZE (mm)

SUCTION

DELIVERY

65
 50

CGEP32260 **CG Power and Industrial Solutions Limited** SUCTION =50mm DELIVERY =32mm PERFORMANCE CURVE OF PUMP THIS CURVE RELATES TO SP GRAVITY 1 AND VISCOSITY AS WATER SPEED=2900 RPM(NOMINAL) 90 Ø257 80 TOTAL HEAD (Meter) Ø243 36% 70 Ø230_ 60 Ø216 50 40 MIN SAFE FLOW 20 25 30 5 10 15 35 40 45 15 **Ø**270 1 DIV = 1.0 kWØ257 Ø243 INPUT (kW) Ø230 Ø216 5 45 20 25 35 0 5 10 15 30 40 40 Ø270 30 Ø270 20 2 10 ADD 0.5 meter TO NPSHr FOR SAFETY MARGIN 5 20 25 35 10 15 **RECOMMENDED PIPE SIZE (mm)** DISCHARGE Q(m³/hr) $1 DIV = 1m^3/hr$ **SUCTION** 80 65 50 50 **DELIVERY** 65 32

REV-R0, 10-03-2022

CGEP50200

PERFORMANCE CURVE OF PUMP

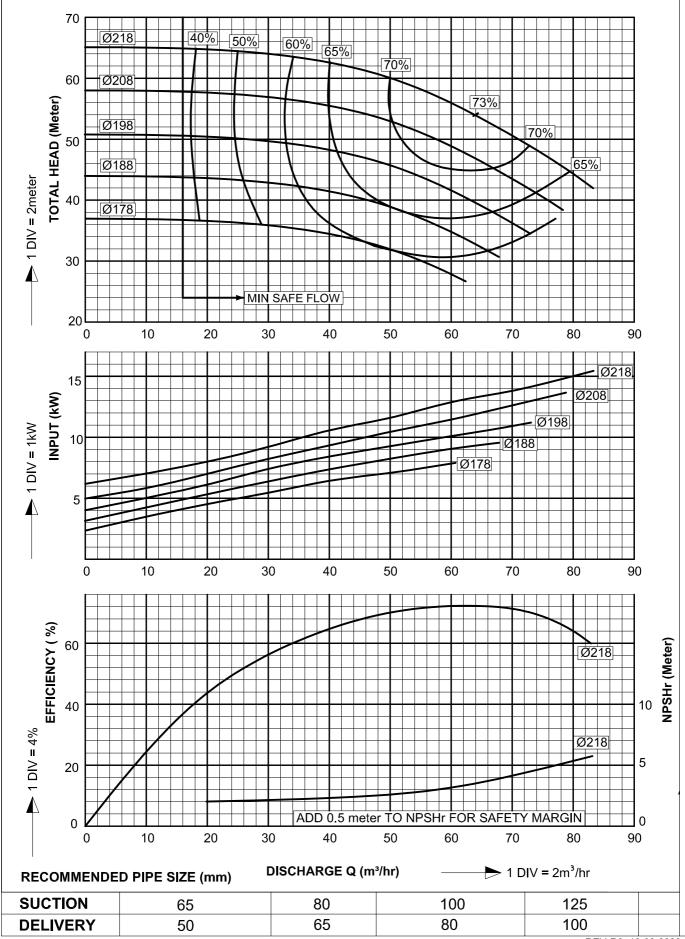
SUCTION =65mm

DELIVERY =50mm

THIS CURVE RELATES TO SP GRAVITY 1 AND VISCOSITY AS WATER

SPEED=2900 RPM(NOMINAL)





CGEP65200

PERFORMANCE CURVE OF PUMP

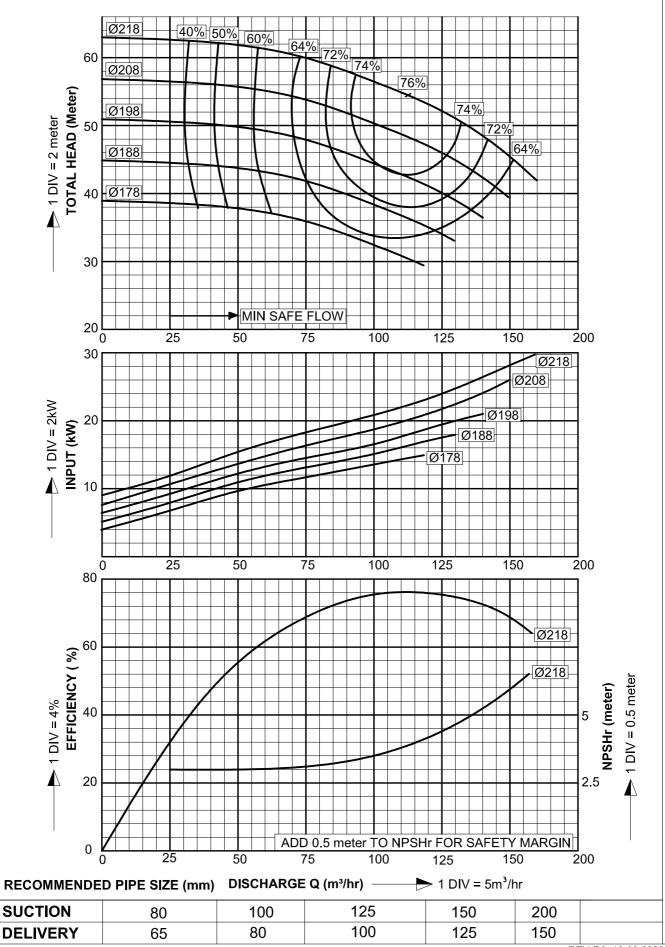
SUCTION =80mm

DELIVERY =65mm

THIS CURVE RELATES TO SP GRAVITY 1 AND VISCOSITY AS WATER

SPEED=2900 RPM(NOMINAL)





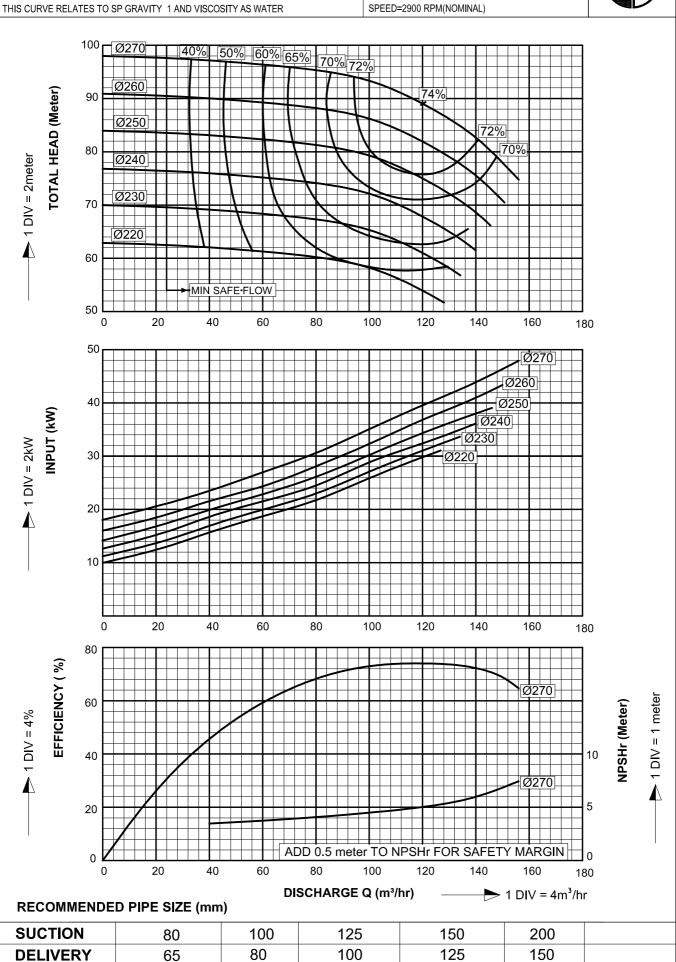
CG Power and Industrial Solutions Limited PERFORMANCE CURVE OF PUMP

CGEP65260

SUCTION =80mm

DELIVERY =65mm





CGEP80200

PERFORMANCE CURVE OF PUMP

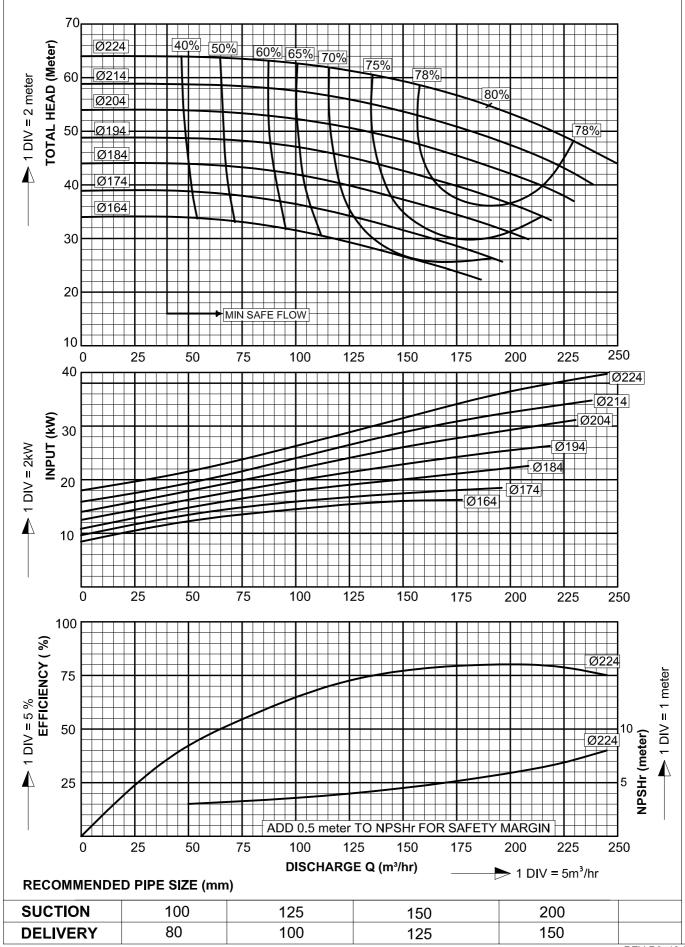
SUCTION =100mm

DELIVERY =80mm

THIS CURVE RELATES TO SP GRAVITY 1 AND VISCOSITY AS WATER

SPEED=2900 RPM(NOMINAL)





CGEP80260 **CG Power and Industrial Solutions Limited** SUCTION =100mm DELIVERY =80mm PERFORMANCE CURVE OF PUMP THIS CURVE RELATES TO SP GRAVITY 1 AND VISCOSITY AS WATER SPEED=2900 RPM(NOMINAL) Ø268 TOTAL HEAD (Meter) Ø260 1 DIV = 2 meterØ252 Ø244 70 Ø236 Ø228 60 Ø220 50 MIN SAFE FLOW 40 250 25 50 75 100 125 150 175 225 200 75 INPUT (kW) 20 1 DIV = 5.0 kWØ244 Ø236 25 75 100 125 150 175 200 225 250 100 **EFFICIENCY (%)** 75 Ø268 NPSHr (meter) Ø268-10 50 1 DIV = 5%25 ADD 0.5 meter TO NPSHr FOR SAFETY MARGIN 25 75 100 175 200 50 150 225 250 DISCHARGE Q (m³/hr) \rightarrow 1 DIV = 5m³/hr **RECOMMENDED PIPE SIZE (mm) SUCTION** 100 125 200 150 80 **DELIVERY** 100 150 125

CGEP80320 **CG Power and Industrial Solutions Limited** PERFORMANCE CURVE OF PUMP SUCTION =100 mm DELIVERY =80 mm THIS CURVE RELATES TO SP GRAVITY 1 AND VISCOSITY AS WATER SPEED=2900 RPM(NOMINAL) Ø330 TOTAL HEAD (Meter) 1 DIV = 4 meter Ø300 Ø285 Ø270 MIN SAFE FLOW 1 DIV = 5 kWINPUT (kW)-1 DIV = 5 % 1 DIV = 1 meter NPSHr (meter) **EFFICIENCY (%)** ADD 0.5 meter TO NPSHr FOR SAFETY MARGIN DISCHARGE Q (m³/hr) > 1 DIV = 5m³/hr **RECOMMENDED PIPE SIZE (mm) SUCTION DELIVERY**

CGEP100400

PERFORMANCE CURVE OF PUMP

SUCTION =125mm

DELIVERY =100mm

THIS CURVE RELATES TO SP GRAVITY 1 AND VISCOSITY AS WATER

SPEED=1450 RPM(NOMINAL)



