

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*)

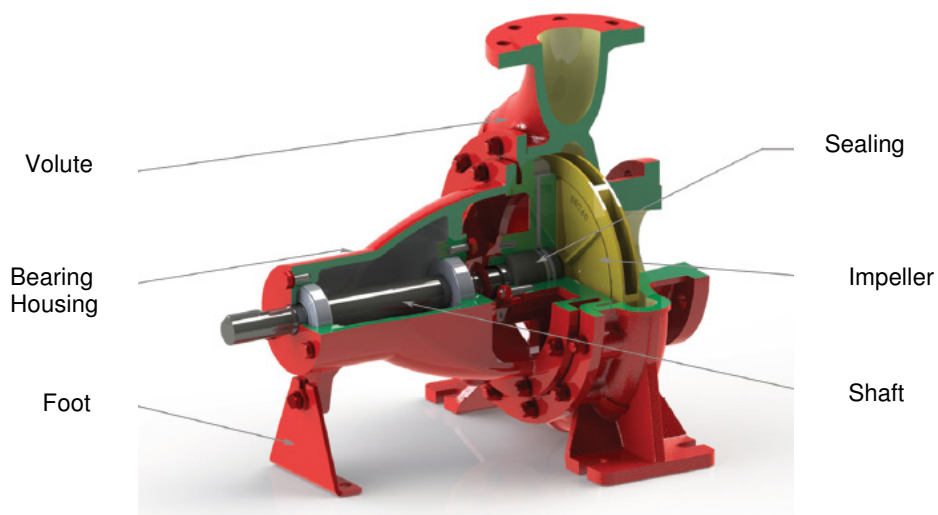
Product Specification:

- 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





Smart solutions.
Strong relationships.

Product Specification

CG Cat Ref	Pipe Size- Suction x Delivery (mm)	Head Range (Meter)	Discharge Range (m ³ /hr)	BEP Head (meter)	BEP Discharge (m ³ /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	A
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
A	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.



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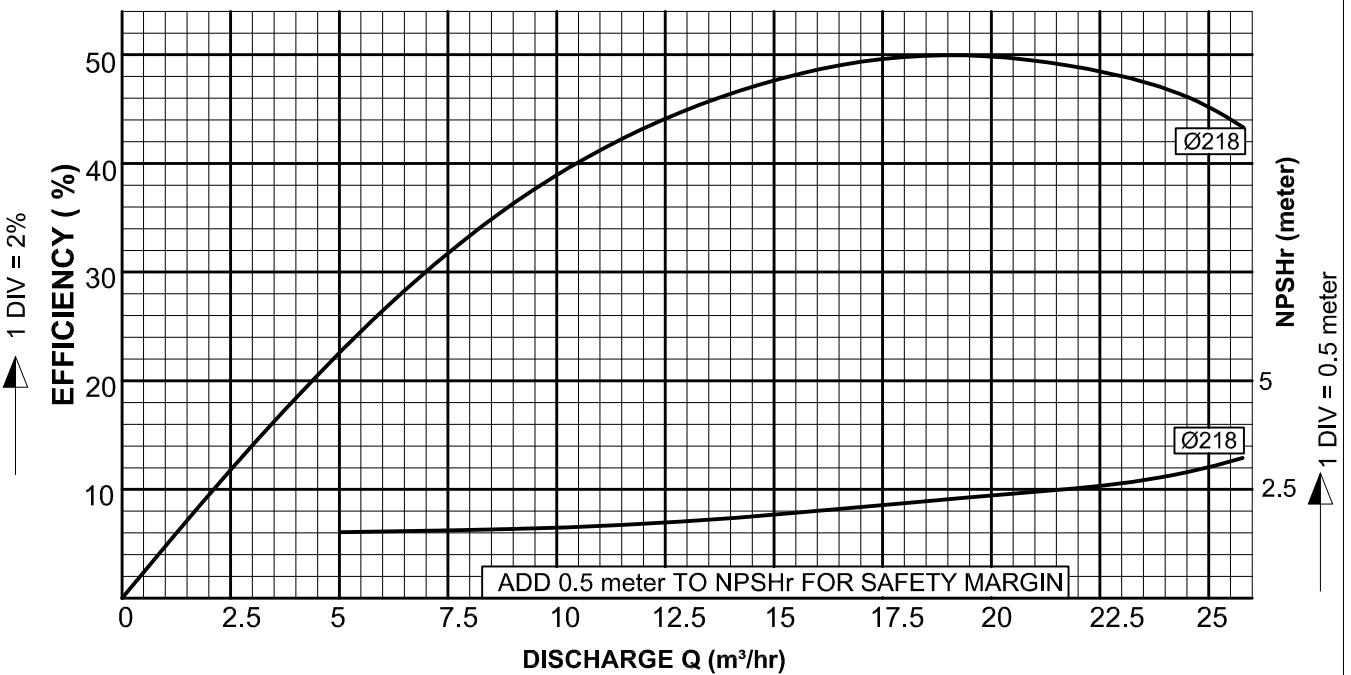
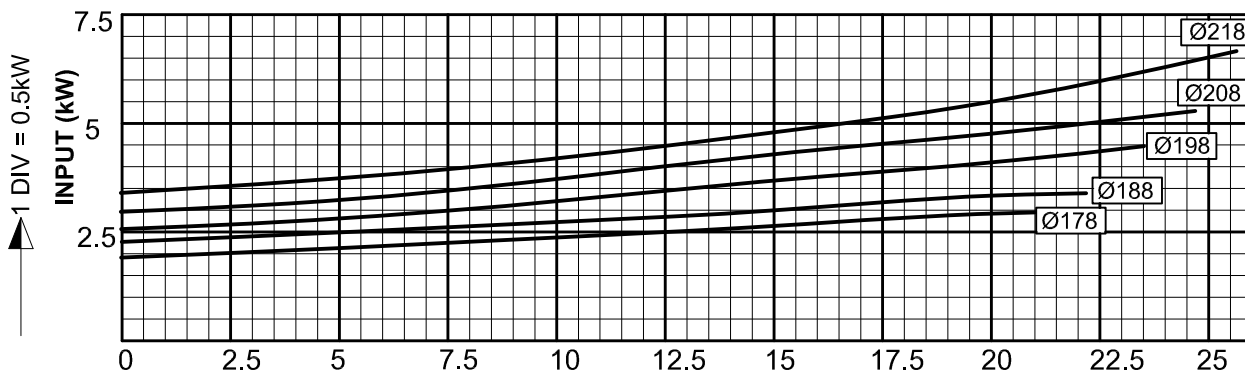
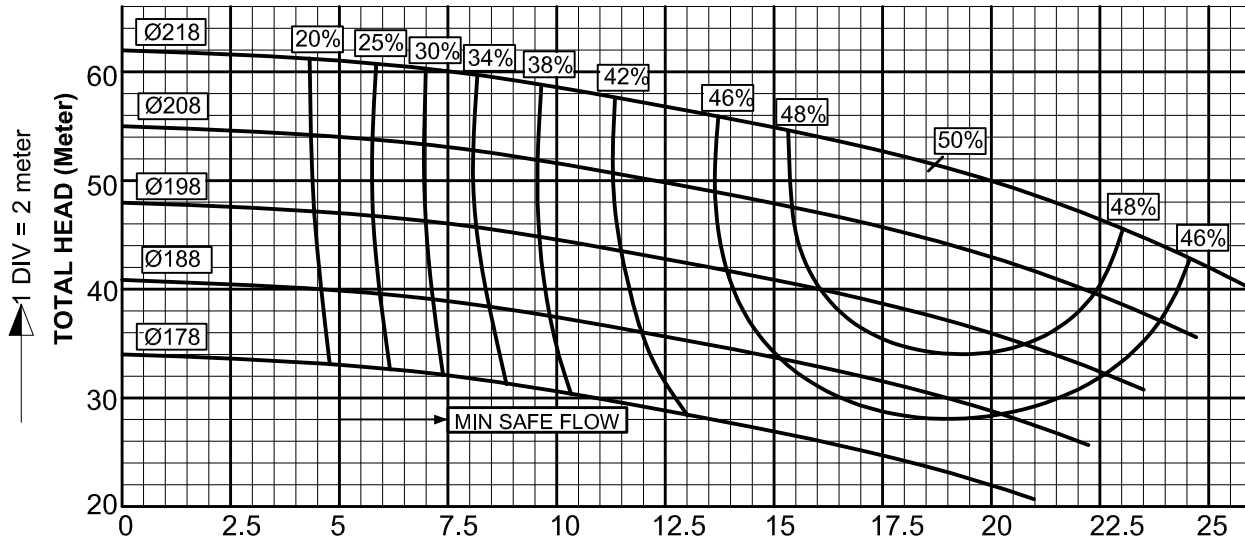
PERFORMANCE CURVE OF PUMP

SUCTION = 50mm

DELIVERY = 32mm

THIS CURVE RELATES TO SP GRAVITY 1 AND VISCOSITY AS WATER

SPEED=2900 RPM(NOMINAL)



RECOMMENDED PIPE SIZE (mm)

1 DIV = 0.5 m³/hr

SUCTION	50	65
DELIVERY	32	50



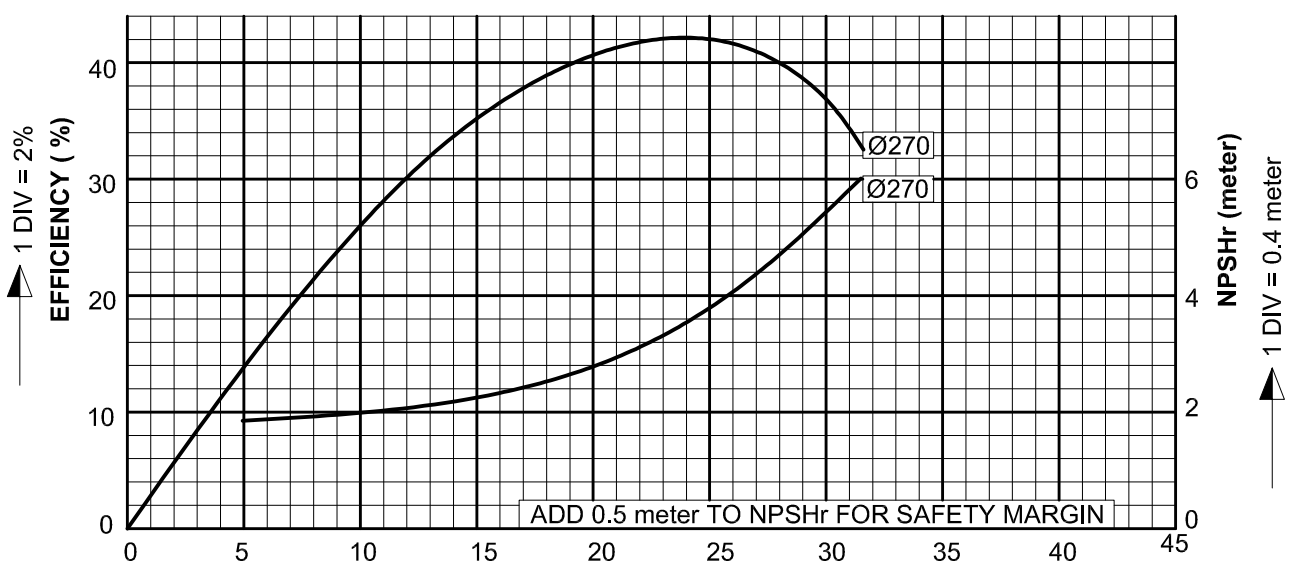
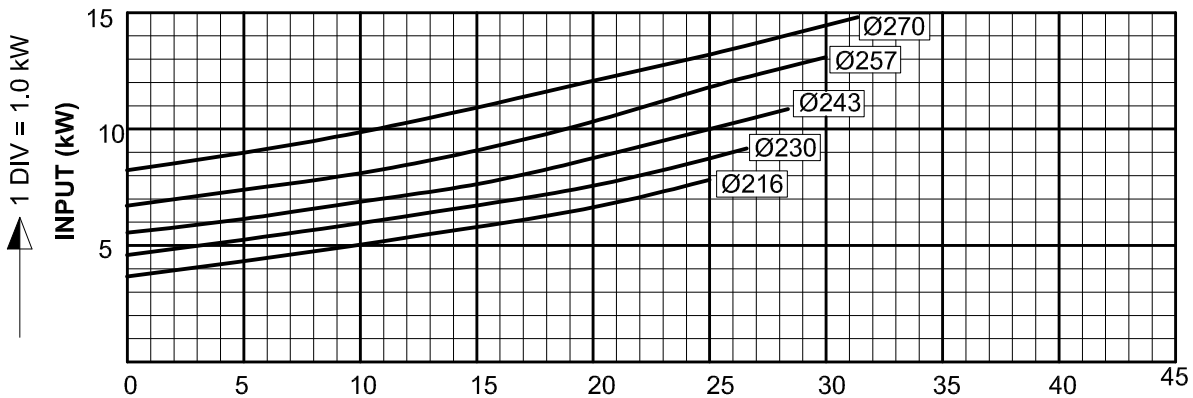
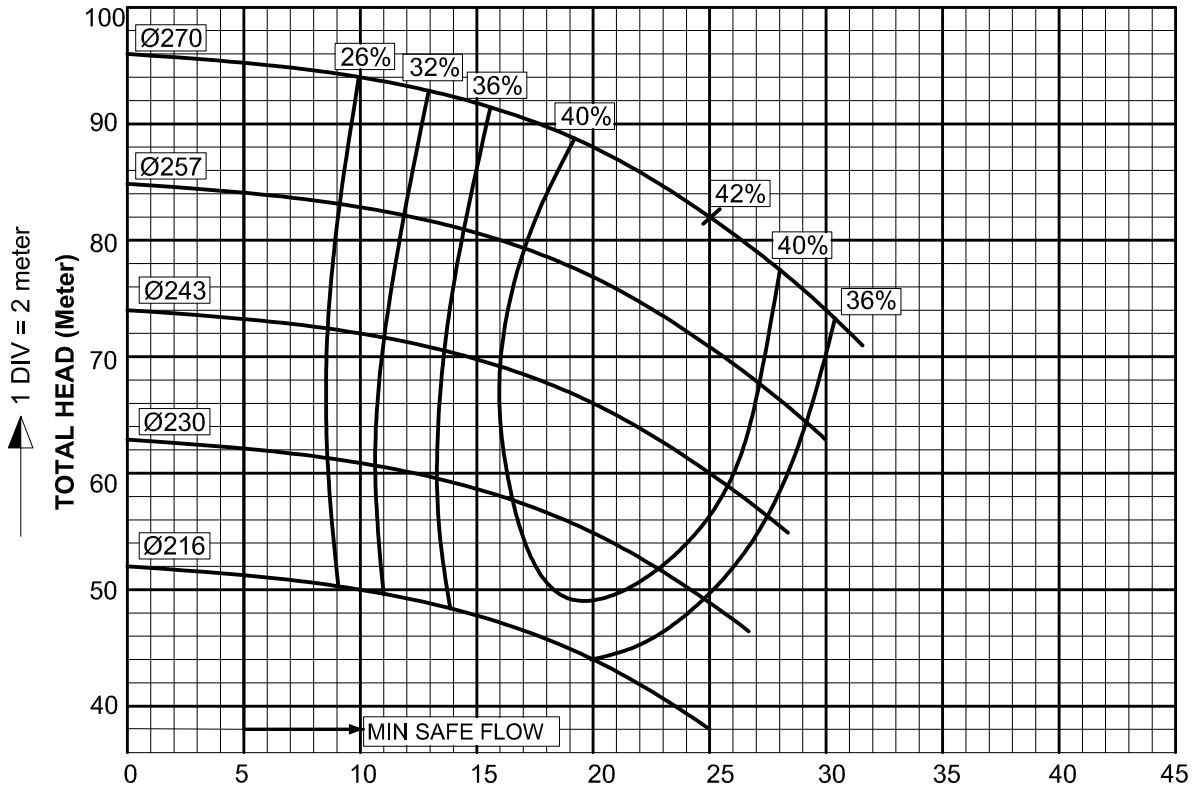
PERFORMANCE CURVE OF PUMP

SUCTION =50mm

DELIVERY =32mm

THIS CURVE RELATES TO SP GRAVITY 1 AND VISCOSITY AS WATER

SPEED=2900 RPM(NOMINAL)



RECOMMENDED PIPE SIZE (mm) DISCHARGE Q(m³/hr) 1 DIV = 1m³/hr

SUCTION	50	65	80
DELIVERY	32	50	65



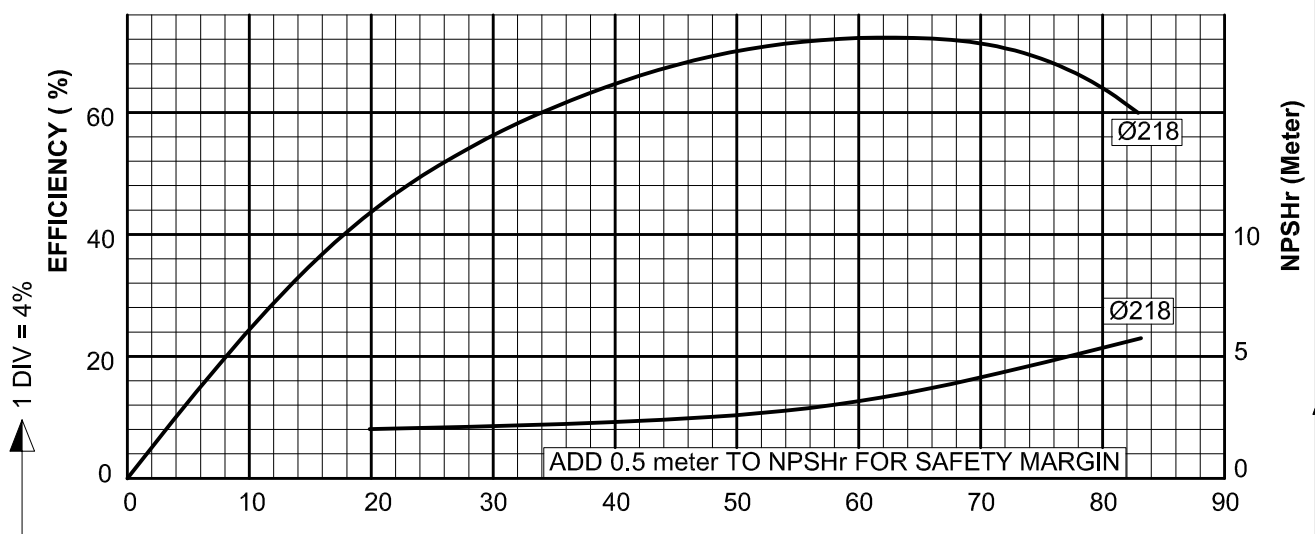
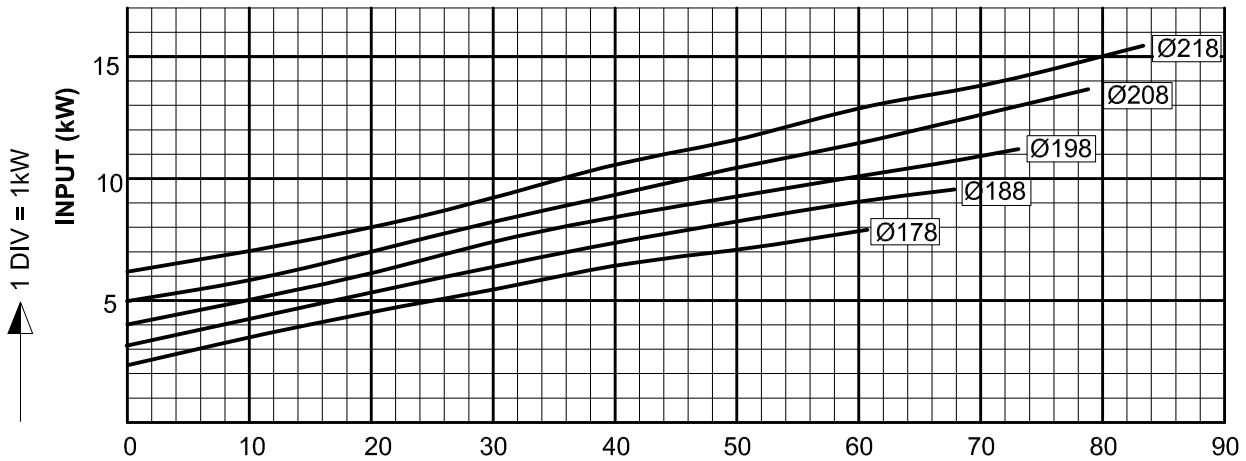
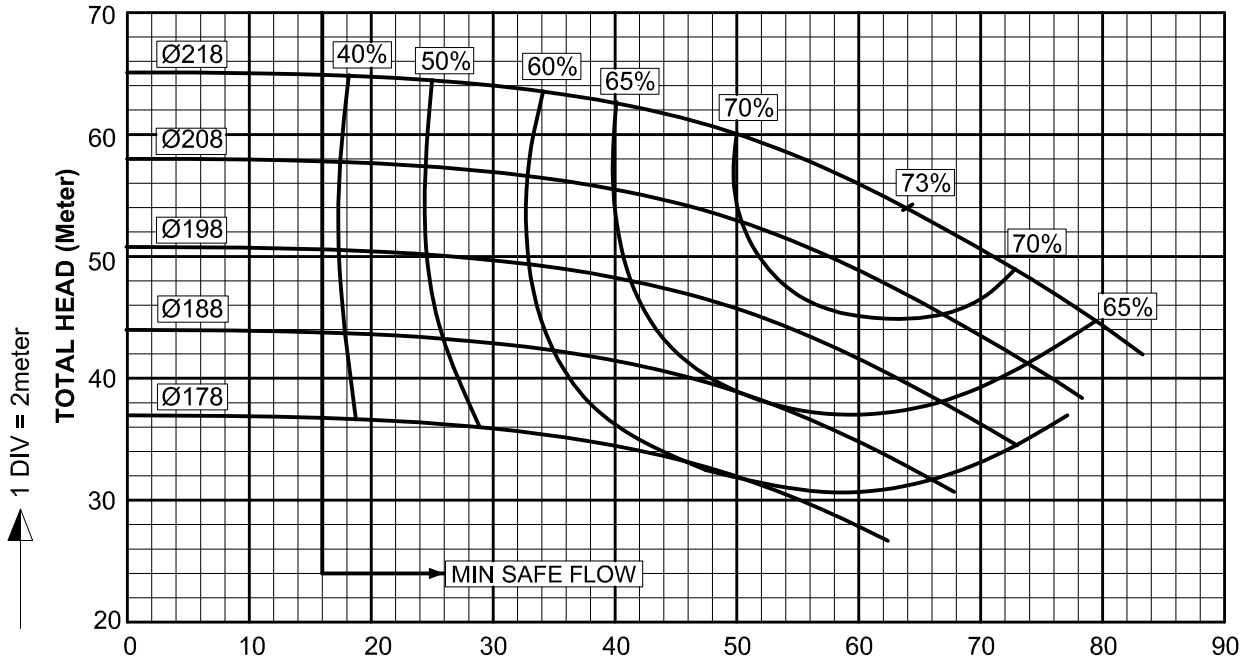
PERFORMANCE CURVE OF PUMP

SUCTION =65mm

DELIVERY =50mm

THIS CURVE RELATES TO SP GRAVITY 1 AND VISCOSITY AS WATER

SPEED=2900 RPM(NOMINAL)



	RECOMMENDED PIPE SIZE (mm)	DISCHARGE Q (m³/hr)		
SUCTION	65	80	100	125
DELIVERY	50	65	80	100



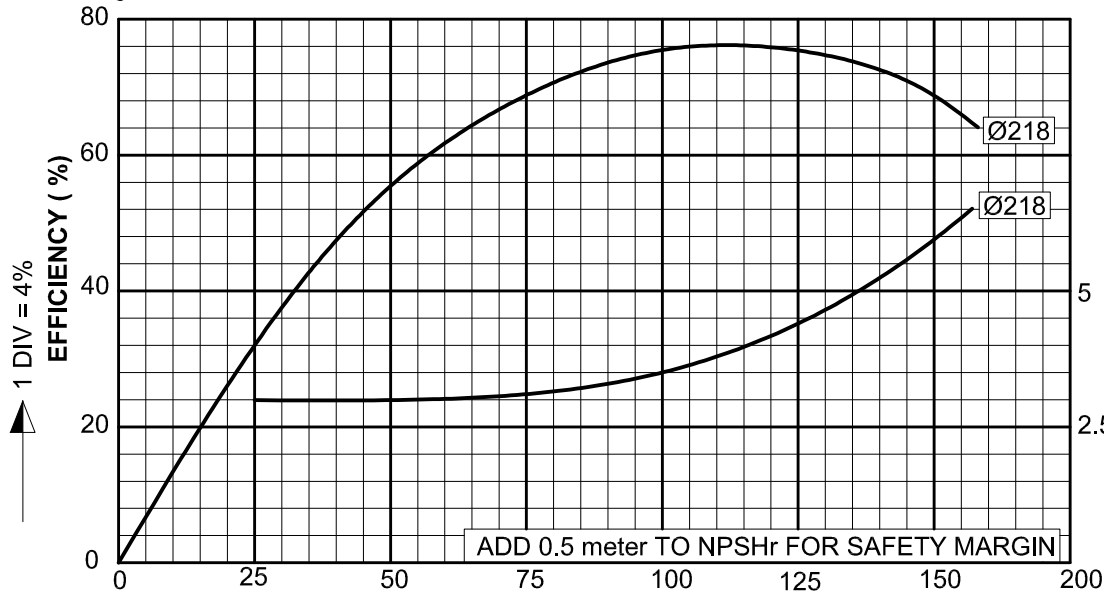
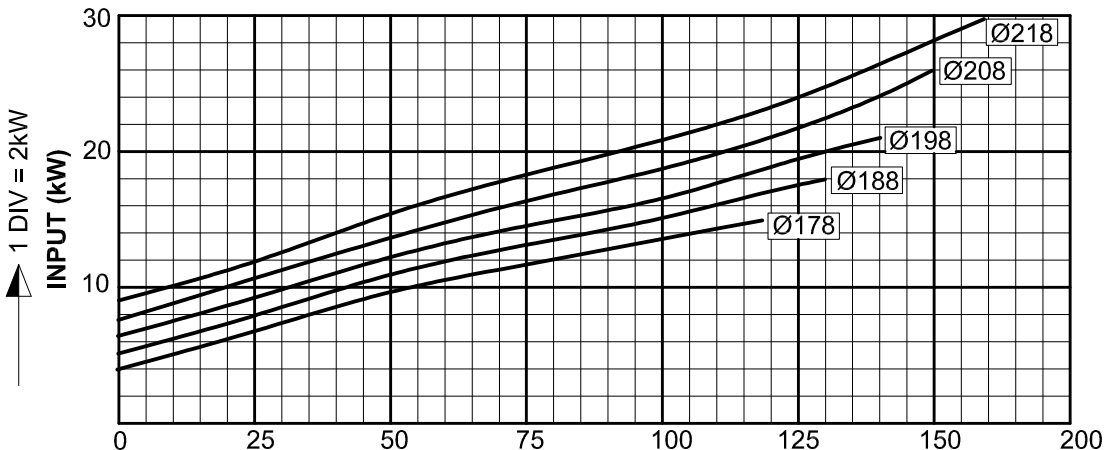
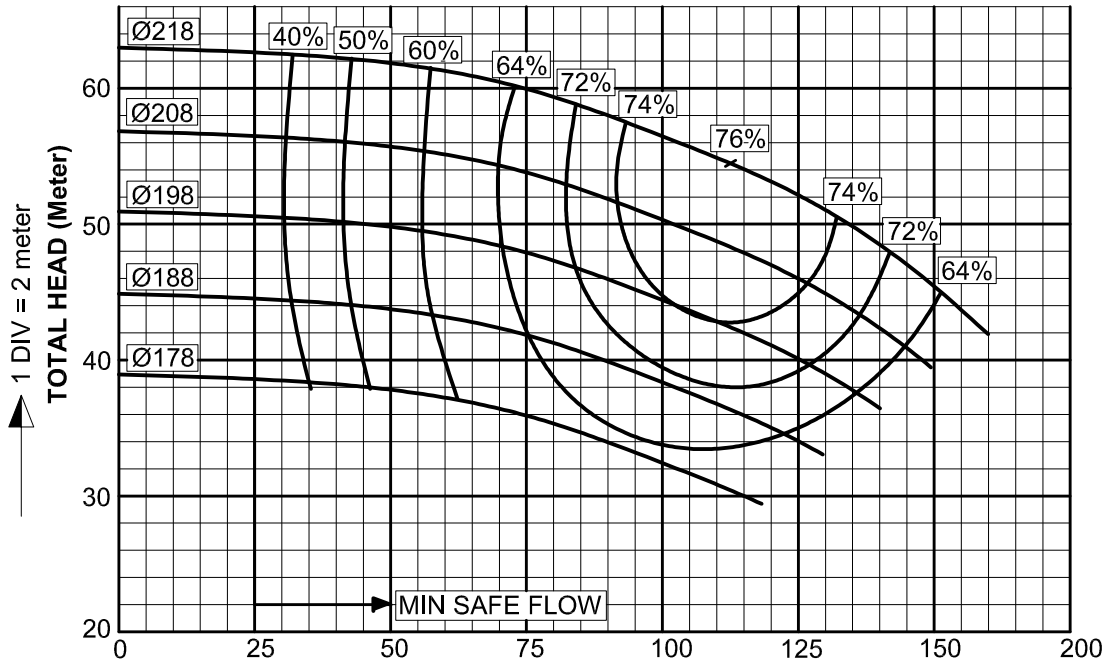
PERFORMANCE CURVE OF PUMP

SUCTION =80mm

DELIVERY =65mm

THIS CURVE RELATES TO SP GRAVITY 1 AND VISCOSITY AS WATER

SPEED=2900 RPM(NOMINAL)



RECOMMENDED PIPE SIZE (mm) DISCHARGE Q (m³/hr) — 1 DIV = 5m³/hr

SUCTION	80	100	125	150	200
DELIVERY	65	80	100	125	150



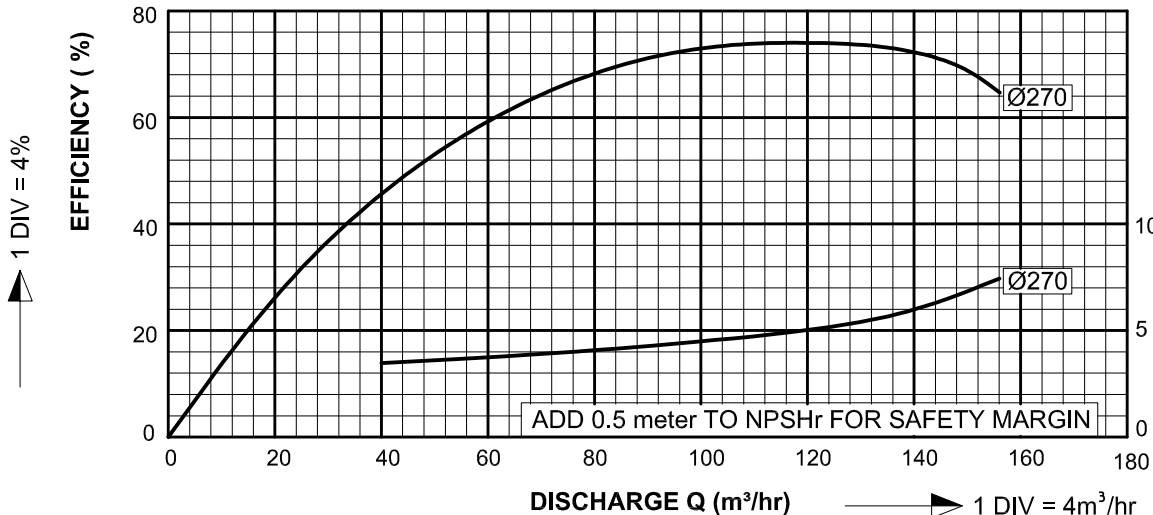
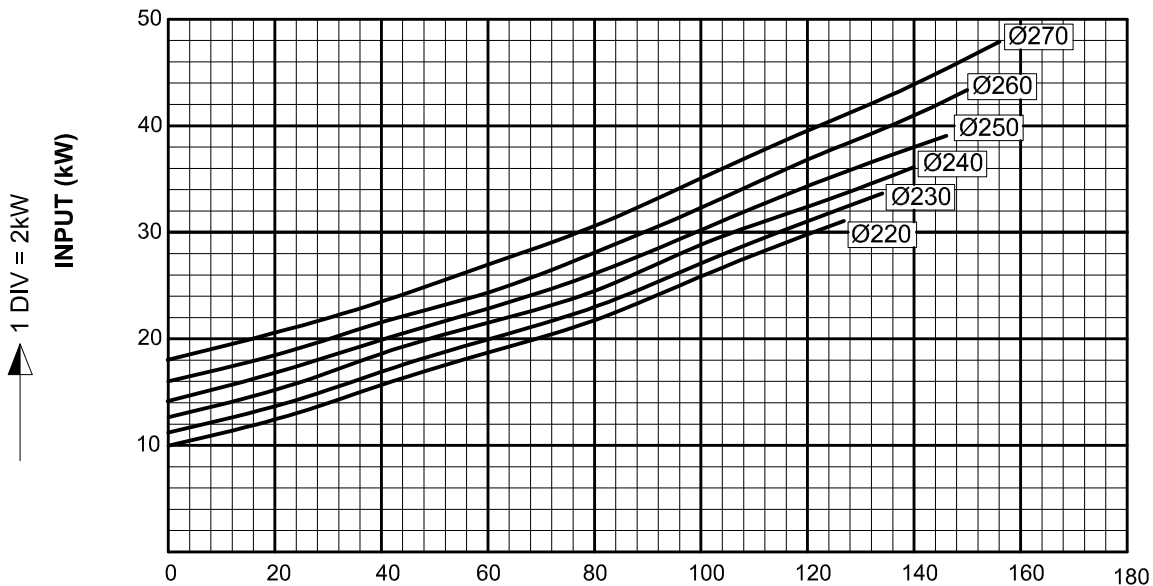
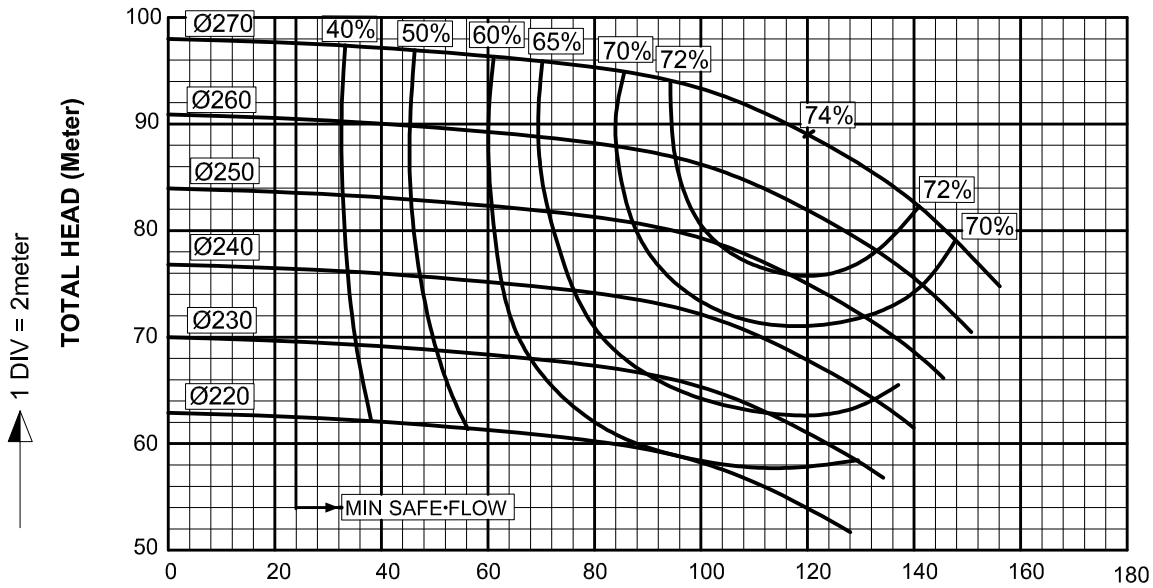
PERFORMANCE CURVE OF PUMP

SUCTION =80mm

DELIVERY =65mm

THIS CURVE RELATES TO SP GRAVITY 1 AND VISCOSITY AS WATER

SPEED=2900 RPM(NOMINAL)



RECOMMENDED PIPE SIZE (mm)

SUCTION	80	100	125	150	200
DELIVERY	65	80	100	125	150



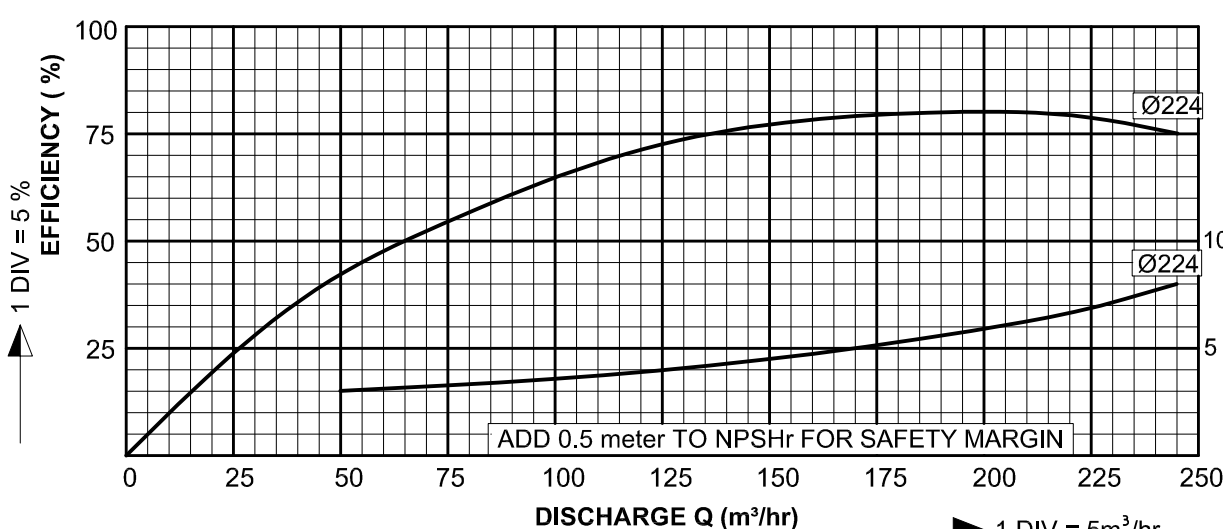
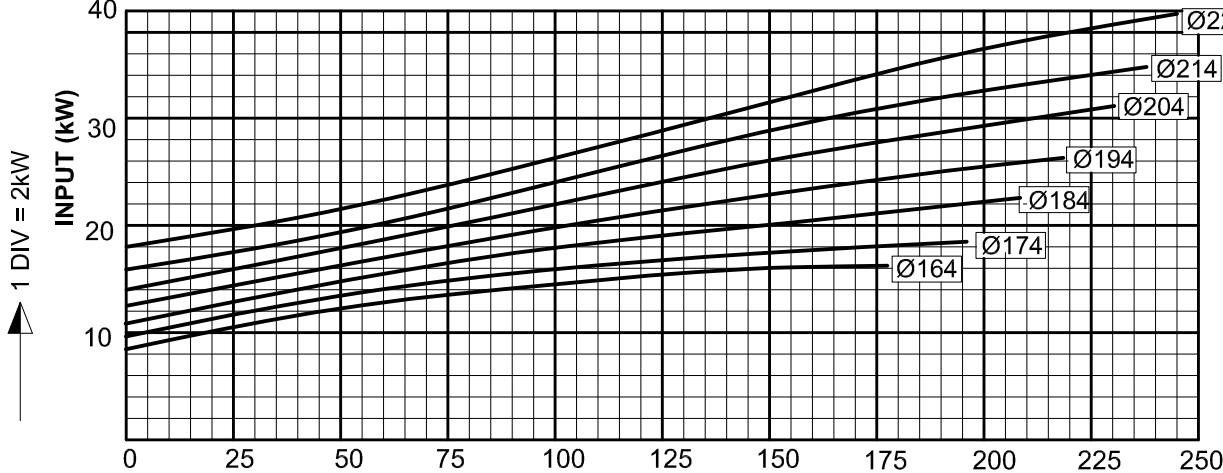
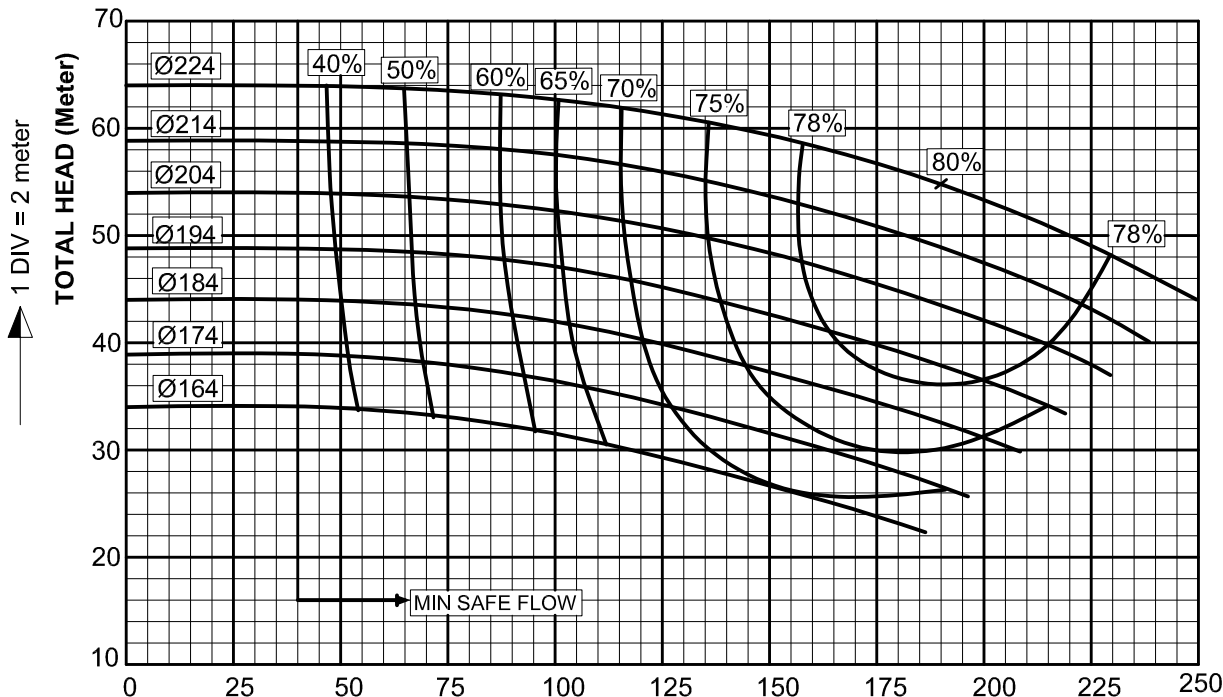
PERFORMANCE CURVE OF PUMP

SUCTION =100mm

DELIVERY =80mm

THIS CURVE RELATES TO SP GRAVITY 1 AND VISCOSITY AS WATER

SPEED=2900 RPM(NOMINAL)



RECOMMENDED PIPE SIZE (mm)

SUCTION	100	125	150	200
DELIVERY	80	100	125	150



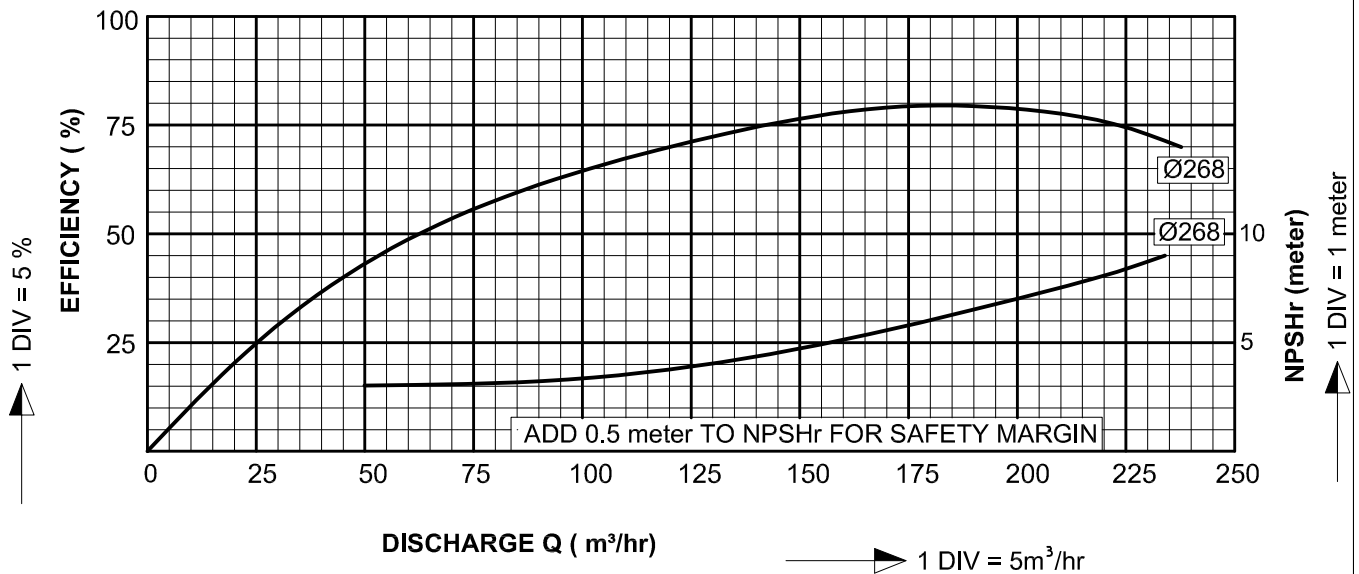
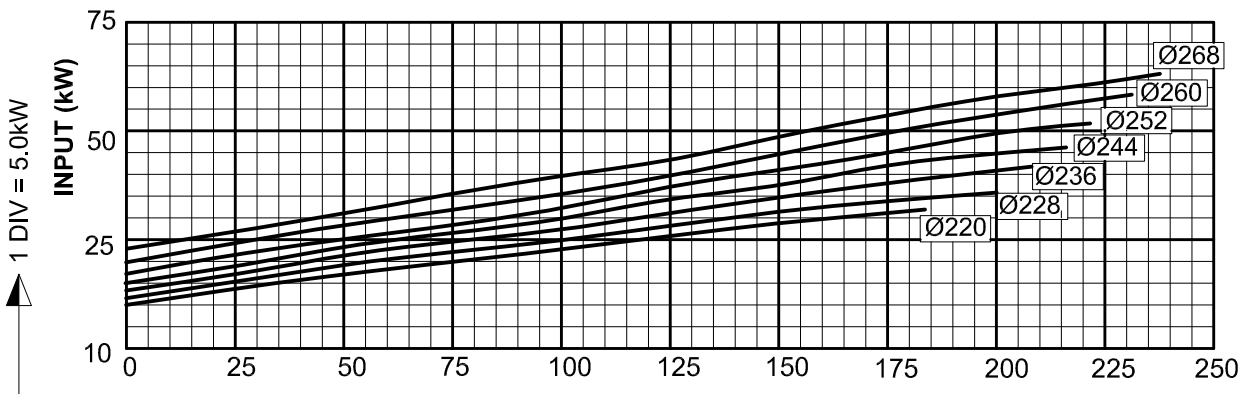
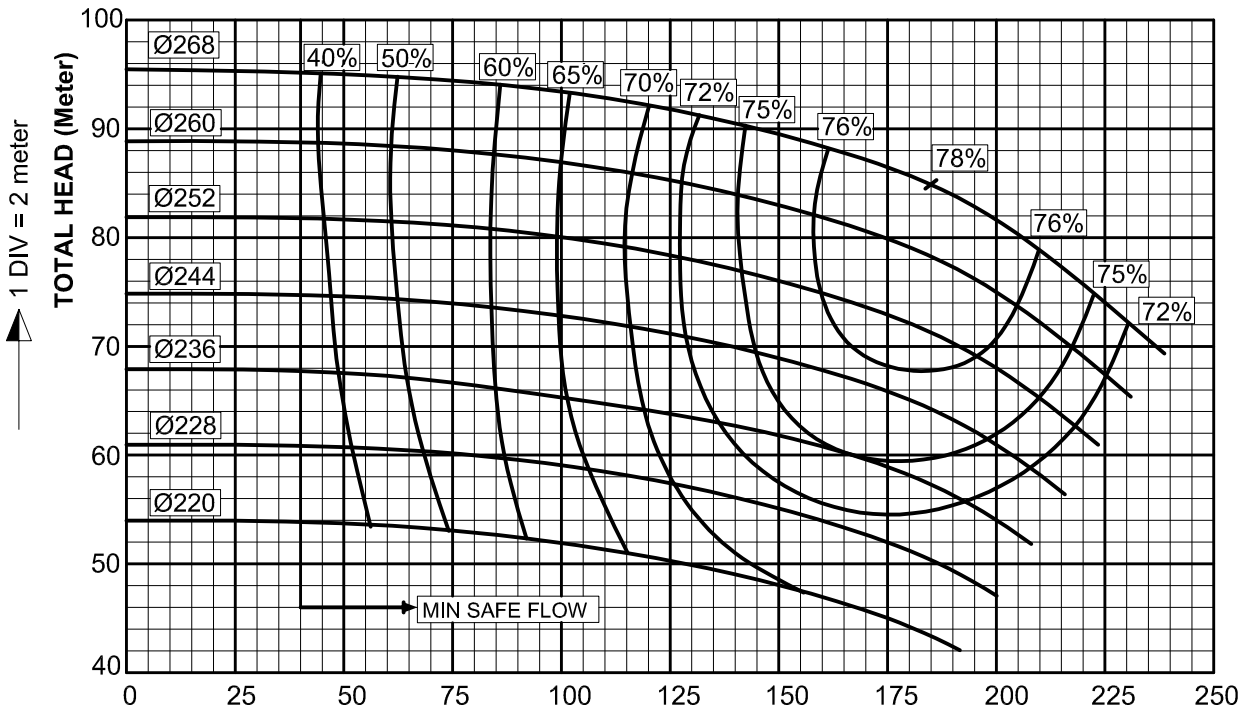
PERFORMANCE CURVE OF PUMP

SUCTION =100mm

DELIVERY =80mm

THIS CURVE RELATES TO SP GRAVITY 1 AND VISCOSITY AS WATER

SPEED=2900 RPM(NOMINAL)



RECOMMENDED PIPE SIZE (mm)

SUCTION	100	125	150	200
DELIVERY	80	100	125	150



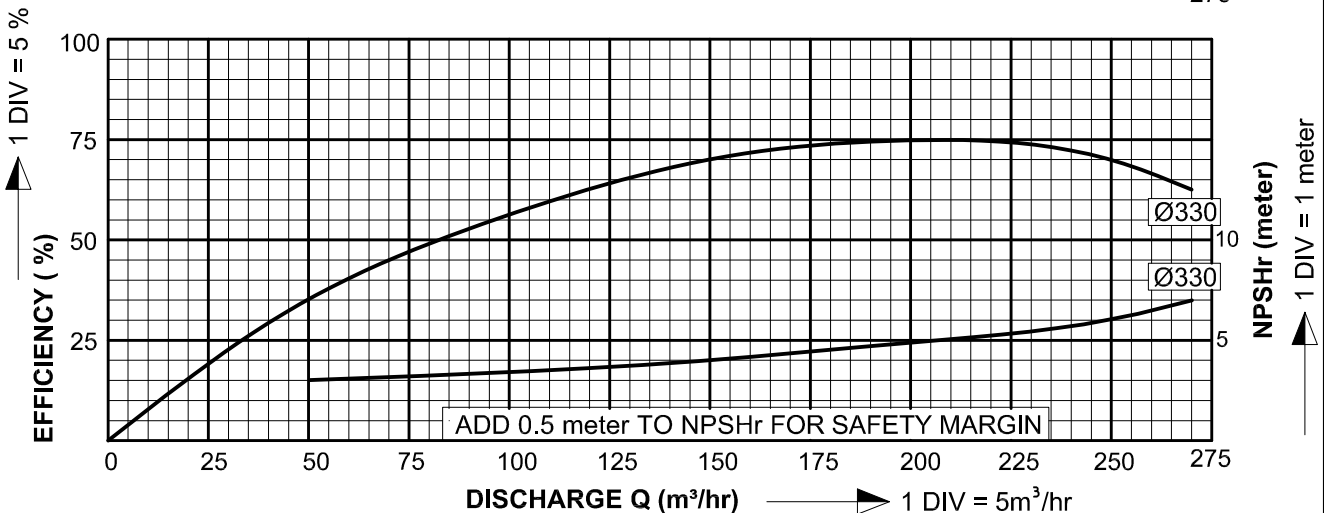
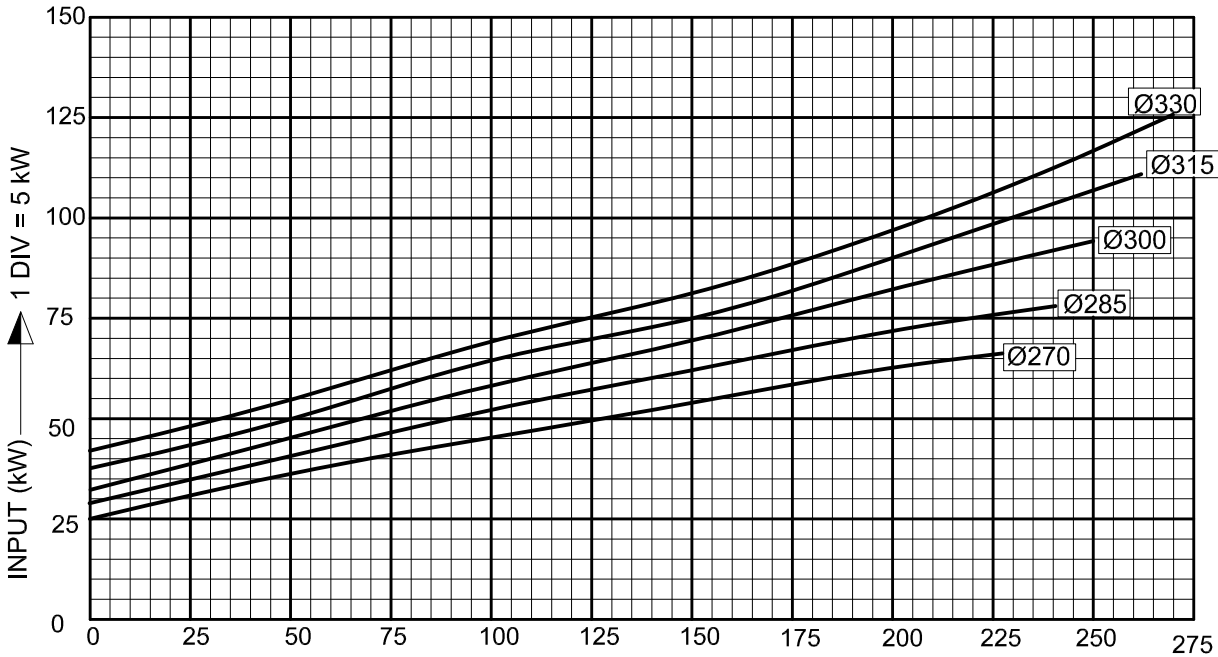
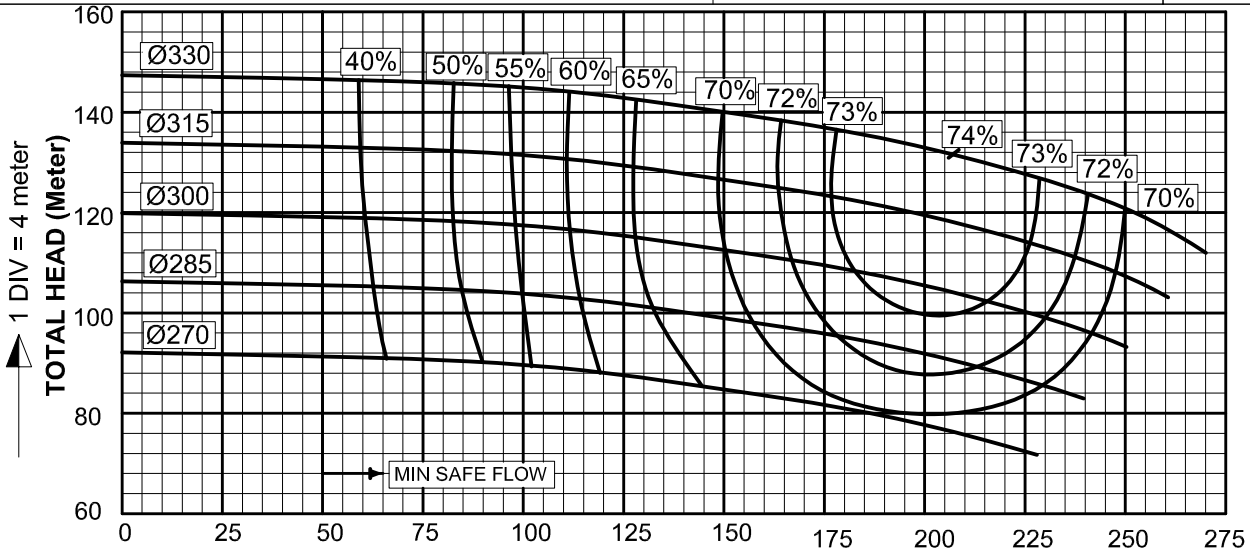
PERFORMANCE CURVE OF PUMP

SUCTION =100 mm

DELIVERY =80 mm

THIS CURVE RELATES TO SP GRAVITY 1 AND VISCOSITY AS WATER

SPEED=2900 RPM(NOMINAL)



RECOMMENDED PIPE SIZE (mm)

SUCTION	100	125	150	200
DELIVERY	80	100	125	150



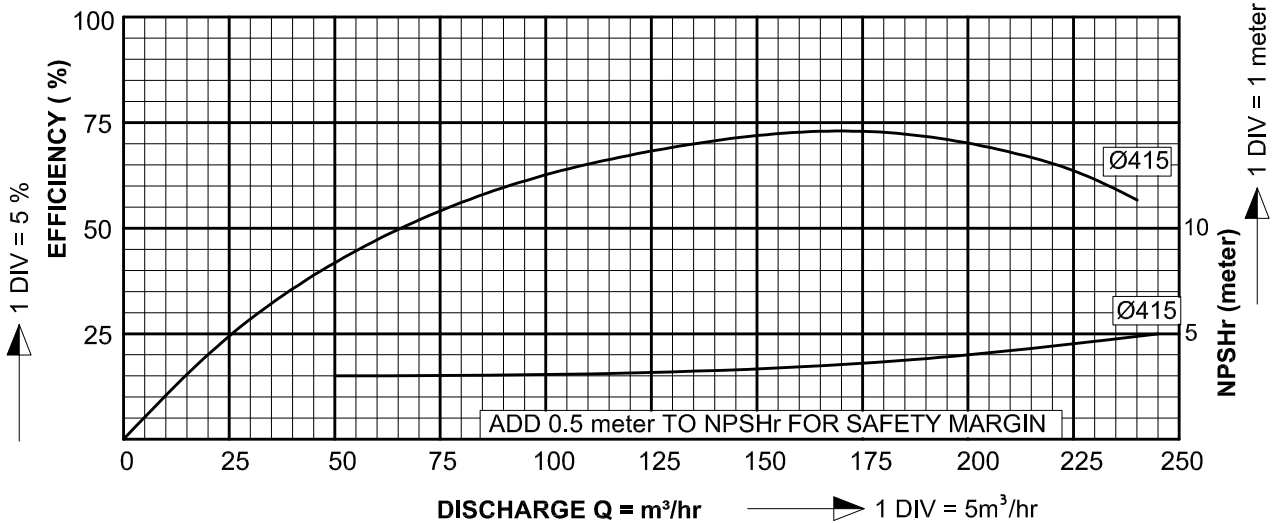
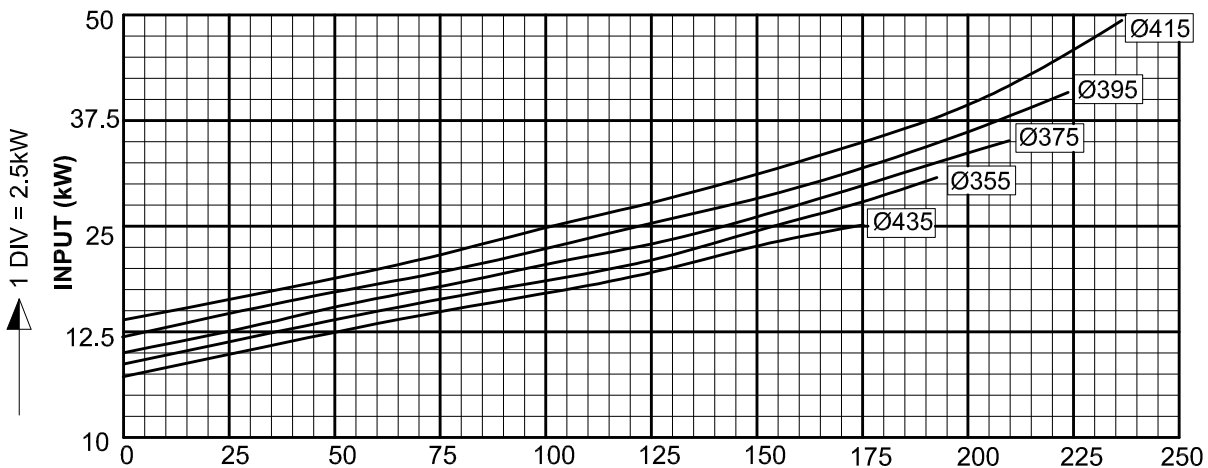
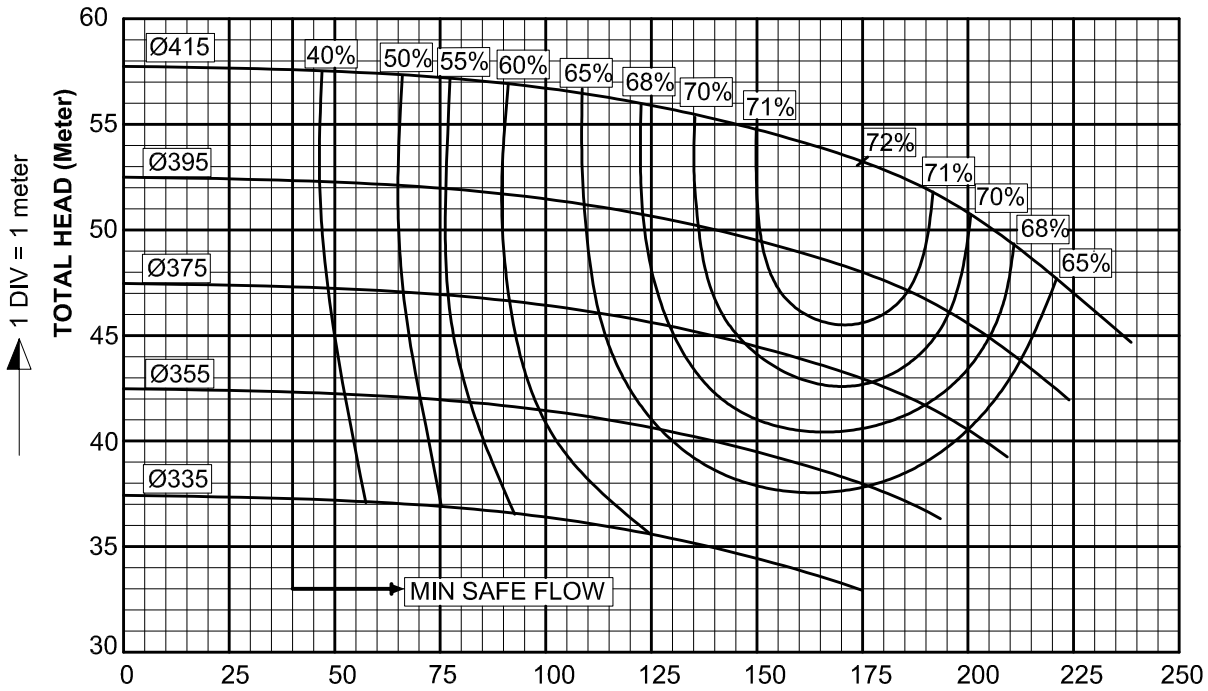
PERFORMANCE CURVE OF PUMP

SUCTION =125mm

DELIVERY =100mm

THIS CURVE RELATES TO SP GRAVITY 1 AND VISCOSITY AS WATER

SPEED=1450 RPM(NOMINAL)



RECOMMENDED PIPE SIZE (mm)

SUCTION	125	125	150	200
DELIVERY	80	100	125	150