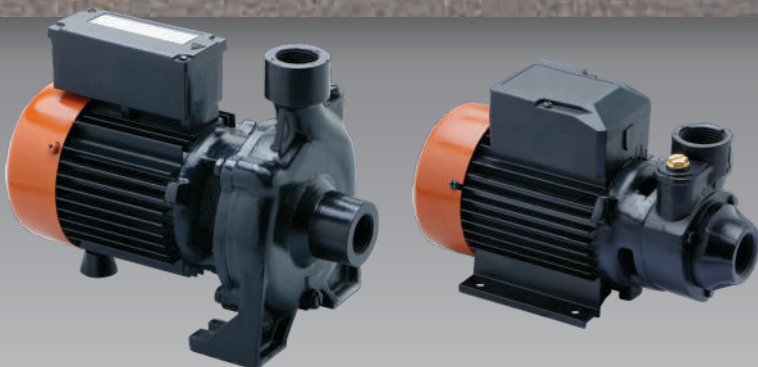


YOU GOT TO GRANT IT TO GRANSA



PERIPHERAL AND
CENTRIFUGAL PUMPS
- 50 Hz

COMPANY PROFILE



YOU GOT TO GRANT IT TO GRANSA

First things first. Gransa is not your run-of-the-mill pump. It is the best there is. Period. In fact it is much more than just pumps. It is a movement. A revolution that can bring about change in the way we look at pumping technology. Gransa incorporates inspired design with new generation technology to ensure perfection at every level. Aesthetically pleasing with its sleek hi-tech looks, every Gransa pump is a marvel of workmanship and design and technologically superior. Functionally, Gransa is in a class all its own. The performance parameters are legendary and would leave you awe struck. It is not for nothing that it is said: you got to grant it to Gransa!

The Gransa quality edge comes from our collective attitude that will not compromise, will not accept second best, will not take no for an answer and will not rest until the perfect solution is found. Every single product bears the imprint of this commitment. Right from sourcing raw material to the finished product every step is



monitored both online and offline till it meets our exacting standards. We know that there is a lot riding on the quality of the raw material used in the manufacture of the pump. That is why we invest more time and money in sourcing the finest raw material available to give you a pump that is perfect in all respects. Another area where our pumps score is in energy efficiency. In these days of depleting energy resources, we believe that it is imperative that power saving should be central to your buying decision.

The fact that the manufacturing facilities are quite extensive and state of the art makes a big difference. The infrastructure is one of the best in the world - CI foundry, fully mechanized and Steel automated Foundry, world class R&D facilities with flow dynamic software, ISO 9001 & 14001 Certified production environment, highly skilled and qualified hands and more. All contributing to a production capacity of over 1 million pumps per annum.

The range is extensive. Applications include irrigation, domestic, civil construction, de-watering, Fire fighting, HVAC, Industrial etc. Our 4" to 8" borehole submersible pumps meet NEMA standards.

Gransa, in keeping with its reputation as a global brand has a wide network across strategic locations worldwide with an extensive dealer presence and service support centers.

GENERAL INFORMATION

IMPORTANT NOTES :

1. Read our operator's manual carefully before installation.
2. Pump should not be operated dry. Install dry run preventor to protect the pumpset from dry running.
3. Use appropriate size, good quality cable and starter / protection devices.
4. Use low friction good quality pipes / foot valve / bends / elbows.
5. The pipe diameters must never be smaller than the pump connections.
6. Install pump according to the recommended operating head range.
7. Reduce number of bends, elbows, T-bends as much as possible in the pipe line.
8. Pump should run for few minutes atleast once in 2 days to prevent from seizing.
9. All pumps employ a prime mover motor suitable for 230 volts single phase or 380-415 volts three phase, 50 Hz, A.C supply.
10. Avoid fatal electrical shock or injury by disconnecting power before working on or around the pumping system. Only technically qualified personnel must perform the works complying with local electricity rules and regulations. To reduce the risk of electrical shock during operation, an appropriate earthing is mandatory.
11. Maximum permissible supply voltage should lie between $\pm 10\%$.
12. The performance data and curves are at rated voltage and only indicative.
13. All pumps are only suitable for pumping clear, cold, fresh, non-aggressive, non-explosive water without abrasives, solid particles or fibres. Clear cold water shall mean water having the following characteristics.

a)	Temperature	50°C (max.)
b)	Permissible amount of sand	25 gm / m ³ (max.)
c)	Chlorine ion density	500 ppm (max.)
d)	Allowable solids	3000 ppm (max.)
e)	Specific gravity	1.004 (max.)
f)	Hardness (Drinking water)	300 (max.)
g)	Viscosity	$1.75 \times 10^{-6} \text{ m}^2 / \text{Sec. (max.)}$
h)	Turbidity	50 ppm silica scale (max.)
i)	pH	6.5 to 8.5

14. The given performance data are common for both single phase & three phase. The last digit of the pump models "M" denotes Single Phase and it will be replaced with "T" in case of Three Phase.
15. In view of continuous developments the information / performance / descriptions / specifications / illustrations are subject to change without notice.

PERFORMANCE CURVE CONDITIONS :

The conditions below apply to the curves in this booklet.

- Curve tolerance according to ISO 9906, 3B.
- The performance are at rated voltage and are only indicative. Actual discharge depends on availability of water in well / tank, height of water column from the suction pipe end.
- The measurements were made with airless water at 20°C. When pumping liquids with a density higher than of water, motors with correspondingly higher outputs must be used.
- The bold curves indicate the recommended performance range.
- Pipe friction losses have not been included in the performance curves & performance tables.
- The pipe connection threads are given as per BSP standard.
- The main scales of the performance curve are metre and m³/h which have been given for head and flow respectively.

PERIPHERAL END SUCTION PUMPS

GPE SERIES

Gransa Peripheral End Suction Pump's volute chamber and impellers are designed to give the best possible hydraulic efficiency and suction lift characteristics. The S.S inserts provided inside the pump casing reduces wear & tear and this give longer life and prevent the pump from seizing if it is kept idle for long period. Motor stator is made of low watt loss steel laminations. The windings are of high grade enameled copper wire and are varnish impregnated. Dynamically balanced rotor ensure vibration and noise free operations. Construction of motor frames and usage of quality materials result in high performance and low temperature rise thereby increasing the life cycle of the motor.

Features :

- | Sturdy and compact
- | Quiet and maintenance free
- | Incorporated with thermal overload protector
- | Dynamically balanced rotating parts

Applications :

- | Residential
- | Gardens
- | Pressure Boosting for Individual Houses.

Specifications :

Power Range	0.37 kW & 0.75 kW
Speed	2900 rpm
Version	Single phase, 230V, 50Hz, A.C. Supply (Permanent split capacitor-PSC)
Type of Duty	S1 (Continuous)
Direction of Rotation	Clockwise viewed from driving end
Degree of Protection	IP 54
Class of Insulation	'B'
Suction and Delivery Size in mm	25 x 25

Materials of Construction :

Pump Casing	Cast iron
Motor Frame	Aluminium
Impeller	Brass
Pump Bracket	Cast Iron
Shaft	S.S. 410
Water Filling Plug	Brass
Mechanical Seal	Carbon & Ceramic
'O'Ring	NBR

Pump Operating Limits :

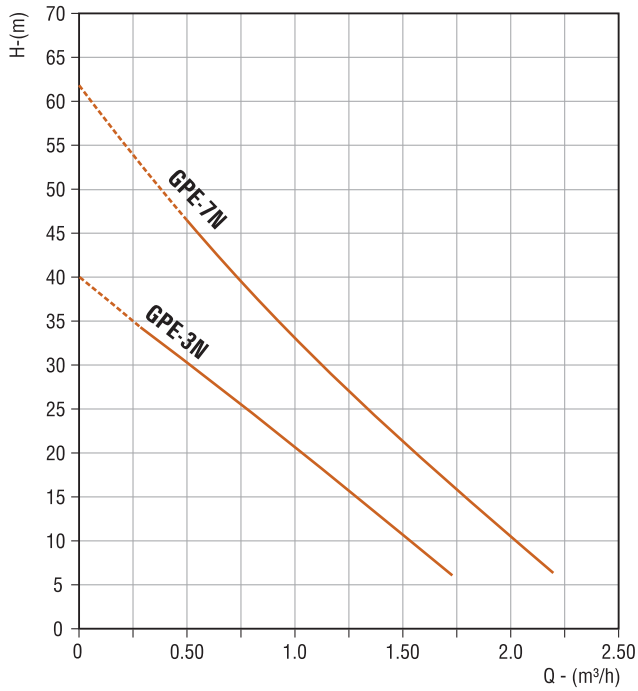
Maximum Suction Lift upto	Upto 7 m
Flow Rate upto	2.2 m ³ /h
Maximum Head upto	61m
Maximum Operating Pressure	6 bar.
Maximum Liquid Temperature	33°C.
Maximum Ambient Temperature	40°C.



PERIPHERAL END SUCTION PUMPS

GPE SERIES

PERFORMANCE CURVES



PERFORMANCE TABLE

Model	kW	HP	Pipe Size in Inches (SucxDel)	Suction Lift in m	Discharge							
					lps m³/h	0	0.1	0.2	0.3	0.4	0.5	0.6
						0	0.4	0.7	1.1	1.4	1.8	2.2
GPE-3N	0.37	0.5	1 x 1	7	Head in metres	40	33	27	18	12	5	-
GPE-7N	0.75	1.0	1 x 1	7		61	51	41	31	23	14	6

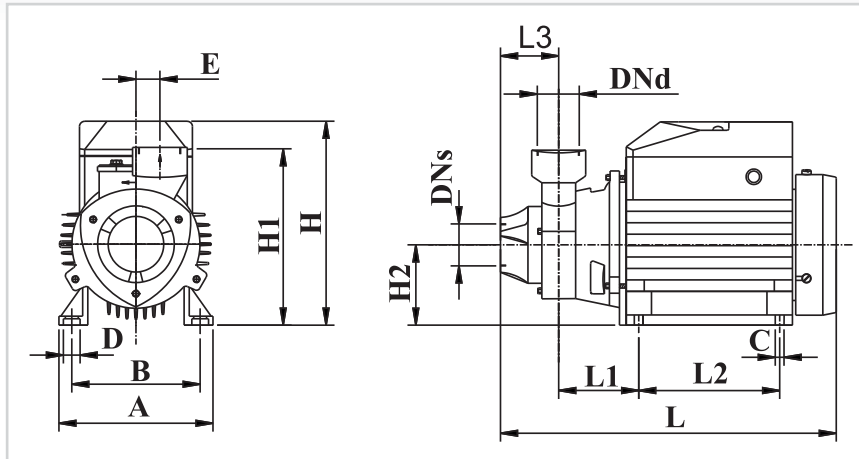
Note : The motor body is aluminum for upto 7.5kW & Cast Iron for 9.3kW & above. On Request aluminum motor body can also be supplied for above 7.5kW.

Curve tolerance according to ISO 9906, Annex A.

The performance data are at rated voltage and only indicative. Actual discharge depends on availability of water / tank, height of water column from the suction pipe end. The information / descriptions / specifications / illustrations are subject to change due to further improvements in the product.

PERIPHERAL END SUCTION PUMPS

GPE SERIES



DIMENSIONAL DATA

Model	kW	DN _s	DN _d	L1	L2	L	A	B	C	D	E	H	H1	H2	L3	APPROX. NETT WEIGHT kg
GPE-3N	0.37	1"	1"	61	80	265	118	100	10	10	20	151	138	63	45	5.3
GPE-7N	0.75	1"	1"	66	90	305	136	112	10	10	21	181	150	73	90	10

CENTRIFUGAL PUMPS

GC SERIES

Gransa Centrifugal pump's volute chamber and impellers are carefully designed to give the best possible hydraulic efficiency and suction lift characteristics. Most modern and highly sophisticated machinery and technology are employed in the manufacture of these pumps using quality raw material, dynamically balanced impellers, seals and ball bearings to ensure long life. Dynamically balanced rotor ensure vibration and noise free operations. Shaft is made of quality steel, precision ground of ample size for transmitting the rated Horse power.

Features :

- | High Operating efficiency resulting in lower power consumption.
- | Dynamically balanced rotating parts. Ensure noise and vibration free operation.
- | Inbuilt thermal overload protector in all single phase pumps.

Applications :

- | Residential | Irrigation | Farms
- | Utility Water Supply in Industries
- | General Water Supply
- | Drip & Sprinkler Irrigation Systems and Water treatment plants.

Specifications :

Power Range	0.37kW-2.2kW
Speed	2900 rpm.
Degree of Protection	IP 44 / IP 54
Class of Insulation	'B'
Versions	Single phase - 230V, 50Hz, A.C. Supply (Permanent split capacitor-PSC) Incorporated with Thermal Overload Protector. Three phase - 380-415V, 50Hz A.C. supply
Type of Duty	S1 (Continuous).
Direction of Rotation	Clockwise viewed from driving end.
Nominal Delivery Size in mm	25 to 80
Nominal Suction Size in mm	25 to 80
Connection	Screw / Flange type (BSP)

Materials of Construction :

Pump Casing	Cast Iron
Motor Frame	Aluminium / Cast Iron
Impeller	Cast Iron / S.S / Brass / Bronze
Shaft	S.S 410 / S.S 304 / Carbon Steel
Sealing	Mechanical Seal (Carbon & Ceramic)

Pump Operating Limits :

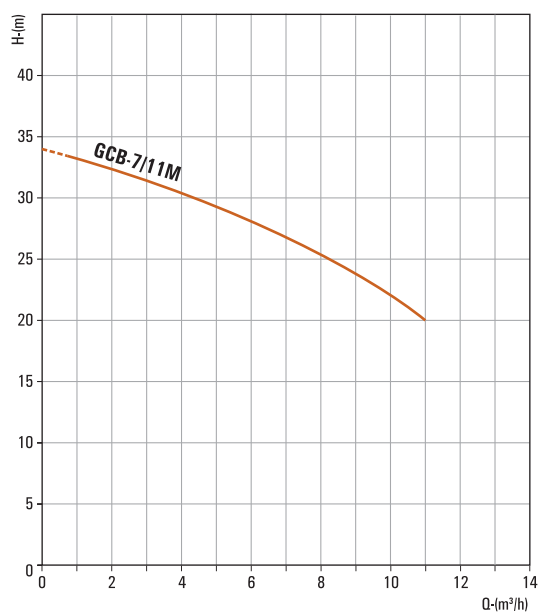
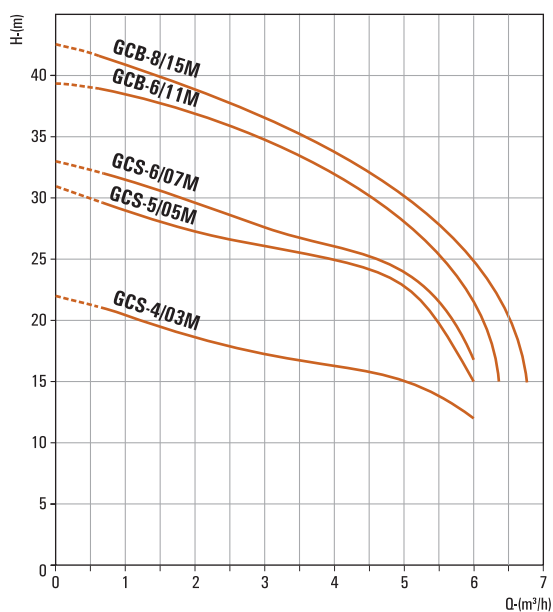
Maximum Head	52.5m
Maximum Suction Lift	Upto 7m
Maximum Liquid Temperature	33°C
Maximum Ambient Temperature	40°C



CENTRIFUGAL PUMPS

GC SERIES

PERFORMANCE CURVES



PERFORMANCE TABLE

Model	kW	HP	Pipe Size in Inches (SucxDel)	Discharge								
				lps m³/h	0 0	0.3 1	0.6 2	0.8 3	1.1 4	1.4 5	1.7 6	1.9 7
GCS-4/03M	0.37	0.5	1 x 1	Head in metres	22	20.5	18.5	17	16.5	14	12	
GCS-5/05M	0.55	0.75	1 x 1		31	30	27	26	25	24	15	
GCS-6/07M	0.75	1.0	1 x 1		33	31.5	29.5	27.5	26	23	15	
GCB-6/11M	1.1	1.5	1 x 1		39	38	37	34.5	32	28	22	15 (6.3m³/h)
GCB-8/15M	1.5	2.0	1 x 1		43	42	38.5	37	33	30	25	

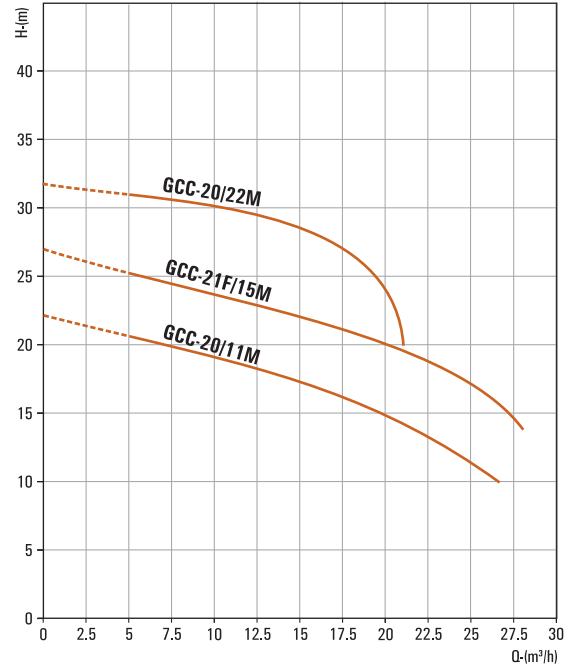
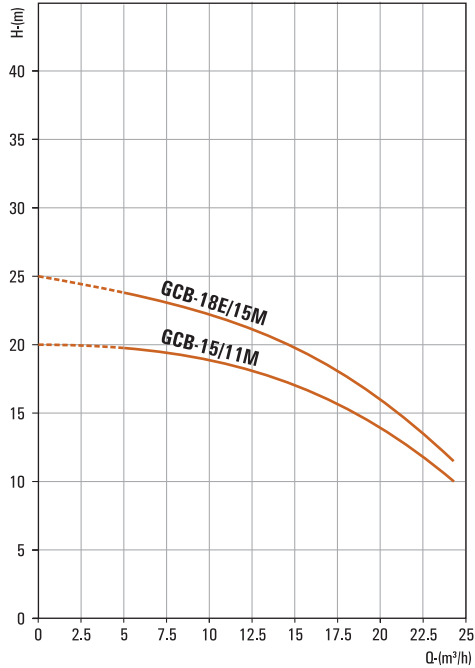
Model	kW	HP	Pipe Size in Inches (SucxDel)	Discharge											
				lps m³/h	0 0	0.6 1	0.8 3	1.1 4	1.4 5	1.7 6	1.9 7	2.2 8	2.5 9	2.8 10	3.0 11
GCB-7/11M	1.1	1.5	1¼ x 1	Head in metres	34	33	32	30.5	29	28	27	25	24	23	20

Curve tolerance according to ISO 9906, Annex A.
 The performance data are at rated voltage and only indicative. Actual discharge depends on availability of water / tank, height of water column from the suction pipe end.
 The information / descriptions / specifications / illustrations are subject to change due to further improvements in the product.

CENTRIFUGAL PUMPS

GC SERIES

PERFORMANCE CURVES



PERFORMANCE TABLE

Model	kW	HP	Pipe Size in Inches (SucxDel)	Discharge								
				Ips	0	1.4	2.1	2.8	3.5	4.2	5.6	6.7
				m³/h	0	5	7.5	10	12.5	15	20	24
GCB-15/11M	1.1	1.5	2 x 2	Head in metres	20	20	19.5	18.5	18	17.5	14	10
GCB-18E/15M	1.5	2.0	2 x 2		25	24	23	22	21	20	16	11.5

Model	kW	HP	Pipe Size in Inches (SucxDel)	Discharge											
				Ips	0	2.8	3.3	3.9	4.4	5	5.6	6.1	6.7	7.2	7.8
				m³/h	0	10	12	14	16	18	20	22	24	26	28
GCC-20/11M*	1.1	1.5	2 x 1½	Head in metres	22	19.2	18	17.7	17	16	15	13.6	12.5	10.4	-
GCC-21F/15M*	1.5	2.0	2 x 2		27	23.8	23	22.5	22	21	20	19	17.5	16	14
GCC-20/22M*	2.2	3.0	2 x 2		32	30	29.5	28.5	27.5	26	24	20 (21m³/h)			

* Flange type Connection

Curve tolerance according to ISO 9906, Annex A.

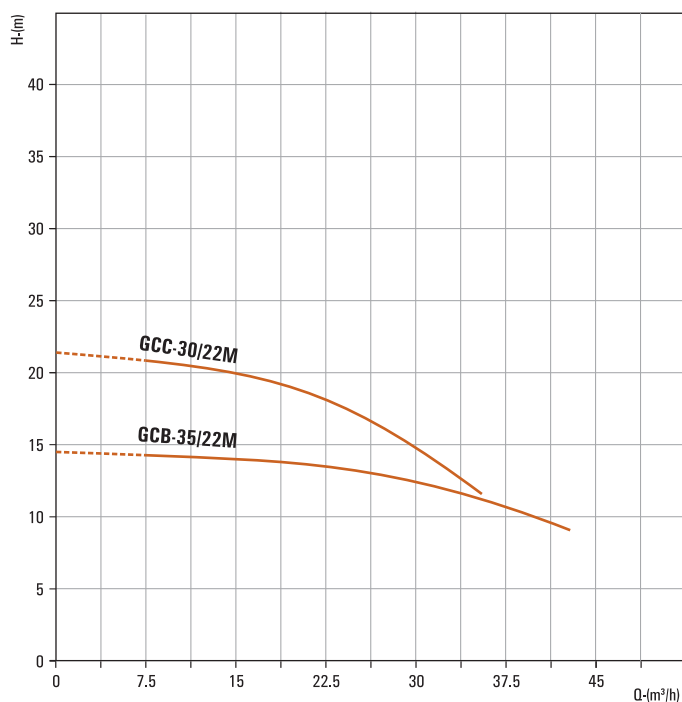
The performance data are at rated voltage and only indicative. Actual discharge depends on availability of water / tank, height of water column from the suction pipe end.

The information / descriptions / specifications / illustrations are subject to change due to further improvements in the product.

CENTRIFUGAL PUMPS

GC SERIES

PERFORMANCE CURVES



PERFORMANCE TABLE

Model	kW	HP	Pipe Size in Inches (SucxDel)	Discharge									
				lps	0	2.8	4.17	5.56	6.94	8.33	9.72	11.11	12.5
				m³/h	0	10	15	20	25	30	35	40	45
GCC-30/22M*	2.2	3.0	2½ x 2	Head in metres	22	21	20	18.5	17.5	15	13	12 (36m³/h)	
GCB-35/22M	2.2	3.0	3 x 3		14.5	14	14	13.5	13	12.5	11.5	10	9 (42m³/h)

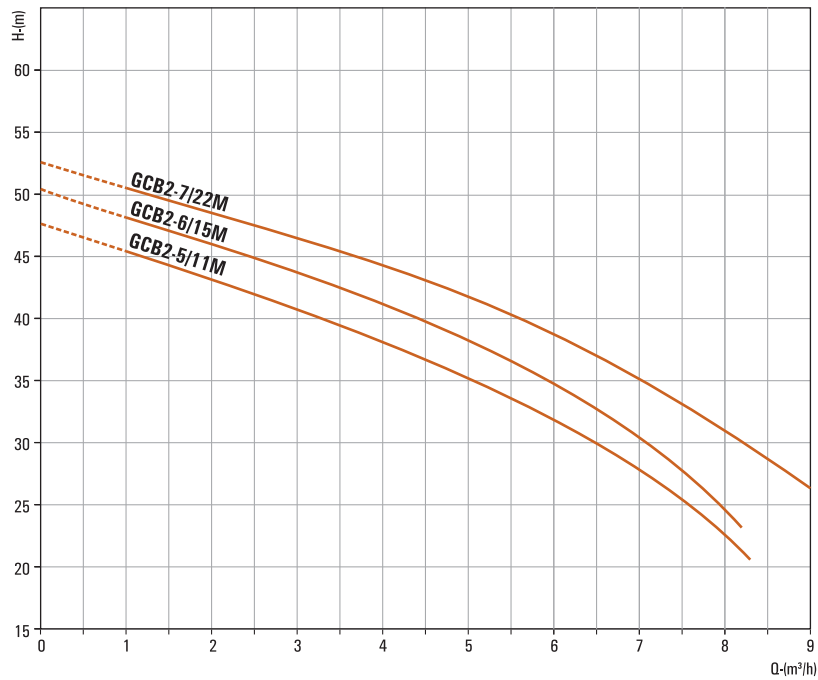
* Flange type Connection

Curve tolerance according to ISO 9906, Annex A.
The performance data are at rated voltage and only indicative. Actual discharge depends on availability of water / tank, height of water column from the suction pipe end.
The information / descriptions / specifications / illustrations are subject to change due to further improvements in the product.

CENTRIFUGAL PUMPS

GC SERIES - TWIN IMPELLER

PERFORMANCE CURVES



PERFORMANCE TABLE

Model	kW	HP	Pipe Size in Inches (SucxDel)	Discharge									
				lps	0	0.6	0.8	1.1	1.4	1.7	1.9	2.2	2.5
				m³/h	0	2	3	4	5	6	7	8	9
GCB2-5/11M	1.1	1.5	1 ¼ x 1	Head in metres	47.5	43	41	38	35.5	32	27.5	22	-
GCB2-6/15M	1.5	2	1 ¼ x 1		50.5	47	43	41	38	35	30	25	-
GCB2-7/22M	2.2	3	1 ¼ x 1		52.5	48.5	46	44	42	38.5	35	31	26

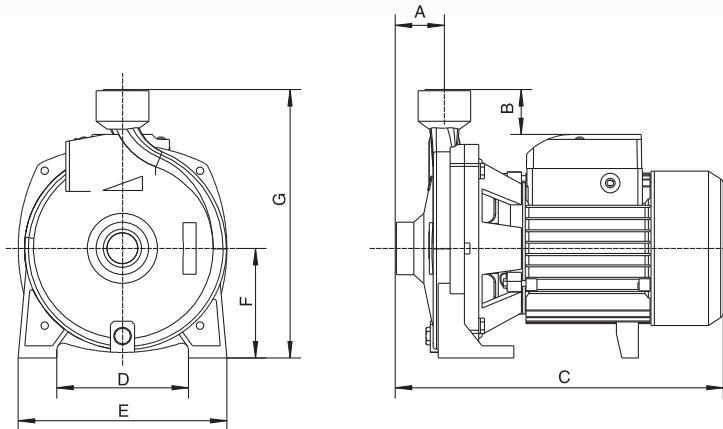
Curve tolerance according to ISO 9906, Annex A.

The performance data are at rated voltage and only indicative. Actual discharge depends on availability of water / tank, height of water column from the suction pipe end. The information / descriptions / specifications / illustrations are subject to change due to further improvements in the product.

CENTRIFUGAL PUMPS

GC SERIES

DIMENSIONAL DRAWING



DIMENSIONAL DATA

Model	kW	HP	A	B	C	D	E	F	G	Approx. Nett. Wt. in kg
GCS-4/03M	0.37	0.5	46	20	285	113	150	84	207	9.5
GCS-5/05M	0.55	0.75	48	27	320	140	182	100	240	15
GCS-6/07M	0.75	1.0	48	27	320	140	182	100	240	15.5
GCB-6/11M	1.1	1.5	44	46	352	180	220	115	284	21.5
GCB-7/11M	1.1	1.5	50	25	302	140	200	105	255	19
GCB-8/15M	1.5	2.0	44	46	363	180	220	115	284	22.5
GCB-15/11M	1.1	1.5	60	20	375	160	207	112	159	22
GCB-18E/15M	1.5	2.0	57	44	385	135	182	107	218	23
GCB-35/22M	2.2	3.0	68	65	435	190	240	120	312	30
GCB2-5/11M	1.1	1.5	81	20	387	170	210	117	264	21.5
GCB2-6/15M	1.5	2.0	81	20	387	170	210	117	264	22.5
GCB2-7/22M	2.2	3.0	90	38	450	190	240	135	300	30.5

* Flange type Connection

* All Dimensions are in mm.

CENTRIFUGAL PUMPS - STAINLESS STEEL

GC SERIES

Gransa Centrifugal pump's volute chamber and impellers are carefully designed to give the best possible hydraulic and suction lift characteristics. Most modern and highly sophisticated machinery and technology are employed in the manufacture of these pumps using quality raw material, dynamically balanced rotors & shaft ensure longer life and noise free operation. Shaft is made of quality steel & precisely grounded to ample size for transmitting the rated horse power, without any transmission loss.

Features :

- | High Operating efficiency resulting in lower power consumption.
- | Dynamically balanced rotating parts.
- | Inbuilt thermal overload protector in all single phase pumps.
- | Complete SS construction more suitable for potable water.

Applications :

- | Residential
- | Irrigation
- | Small Farms
- | Pressure Boosting Units
- | Utility supply in Industrial
- | Food Processing Industries
- | Washing Systems.

Specifications :

Power Range	0.37kW - 3.0kW
Speed	2900 rpm
Degree of Protection	IP 54 / IP 55
Class of Insulation	'B' / 'F'
Versions	Single phase - 230V, 50Hz, A.C. Supply (Permanent split capacitor-PSC) Three phase - 380-415V, 50Hz A.C. supply
Direction of Rotation	Clockwise viewed from driving end
Type of Duty	S1 (Continuous)
Nominal Suction Size in mm	32 to 50
Nominal Delivery Size in mm	25 to 50

Materials of Construction :

Pump Casing	S.S 304
Motor Frame	Aluminium
Impeller	S.S 304
Shaft	S.S 304 / Carbon Steel
Sealing	Mechanical Seal (Carbon & Ceramic)



Pump Operating Limits :

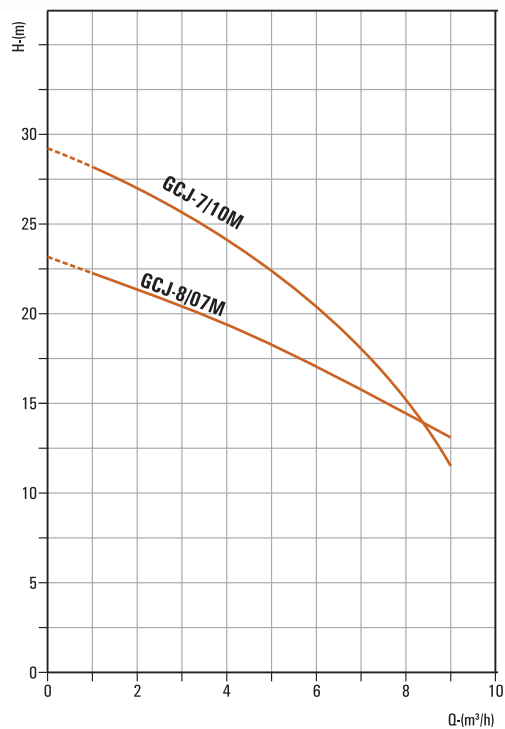
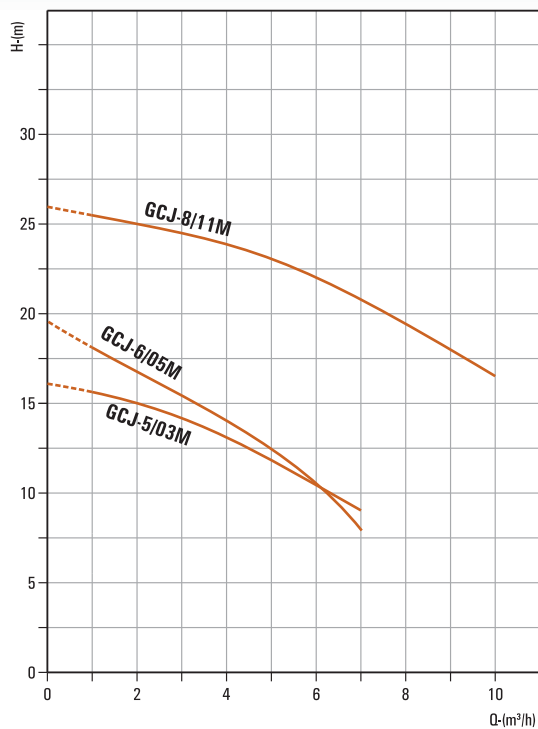
Maximum Head	35.5 m
Maximum Suction Lift	upto 7m
Maximum Liquid Temperature	33°C
Maximum Ambient Temperature	40°C



CENTRIFUGAL PUMPS - STAINLESS STEEL

GC SERIES

PERFORMANCE CURVES



PERFORMANCE TABLE

Model		kW	HP	Pipe Size in Inches (SucxDel)	Discharge												
					lps	0	0.27	0.55	0.83	1.1	1.3	1.6	1.9	2.2	2.5	2.9	
230V	380V				m³/h	0	1	2	3	4	5	6	7	8	9	10	
GCJ-5/03M	GCJ-5/03T	0.37	0.5	1¼ x 1	Head in metres	16	15.5	15	14.5	13	11.5	10.5	9	-	-	-	
GCJ-6/05M	GCJ-6/05T	0.55	0.75	1¼ x 1		19.5	18	17	15.5	13.5	12.5	11	8	-	-	-	
GCJ-8/07M	GCJ-8/07T	0.75	1.0	1¼ x 1		23	22	21.5	20.5	19.5	18	17	16	14.5	13	-	
GCJ-7/10M	GCJ-7/10T	1.0	1.3	1¼ x 1		29	28	26.5	25.5	24	22.5	20.5	18.5	15.5	11.5	-	
GCJ-8/11M	GCJ-8/11T	1.1	1.5	1¼ x 1		26.5	26	25.5	25	24.5	23.5	22	20.5	19.5	18	17	

Curve tolerance according to ISO 9906, Annex A.

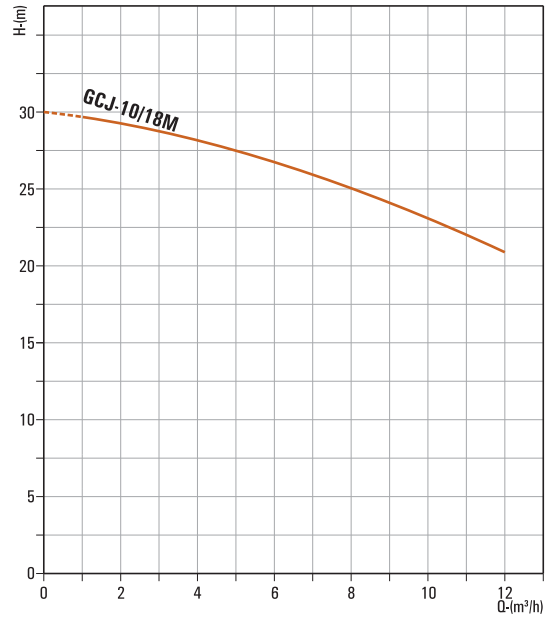
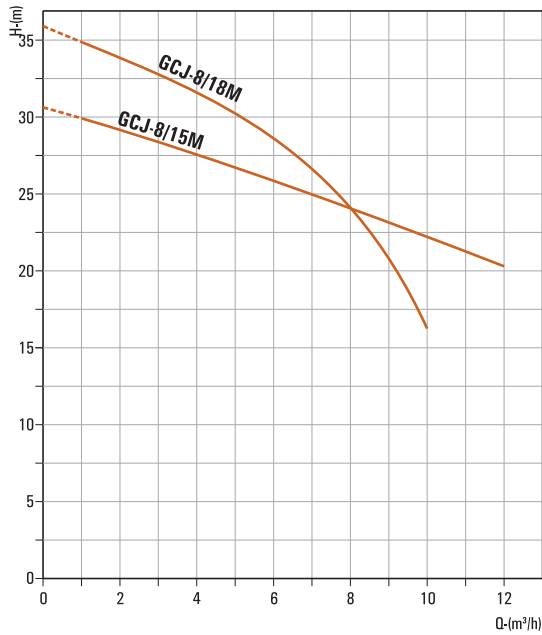
The performance data are at rated voltage and only indicative. Actual discharge depends on availability of water / tank, height of water column from the suction pipe end.

The information / descriptions / specifications / illustrations are subject to change due to further improvements in the product.

CENTRIFUGAL PUMPS - STAINLESS STEEL

GC SERIES

PERFORMANCE CURVES



PERFORMANCE TABLE

Model		kW	HP	Pipe Size in Inches (SucxDel)	Discharge												
					lps m³/h	0	0.27	0.55	0.83	1.1	1.3	1.6	1.9	2.2	2.5	2.9	3.3
230V	380V				0	1	2	3	4	5	6	7	8	9	10	12	
GCJ-8/15M	GCJ-8/15T	1.5	2.0	1¼ x 1	Head in metres	31	30	29	28.5	27.5	27	26	25	24.5	23	22	20.5
GCJ-8/18M	GCJ-8/18T	1.8	2.5	1¼ x 1		36.5	35	34	33	32	30	28.5	27	24	20.5	16.5	-
GCJ-10/18M	GCJ-10/18T	1.8	2.5	1¼ x 1		30	29.5	29	28.5	28	27.5	27	26	25	24	23	21

Curve tolerance according to ISO 9906, Annex A.

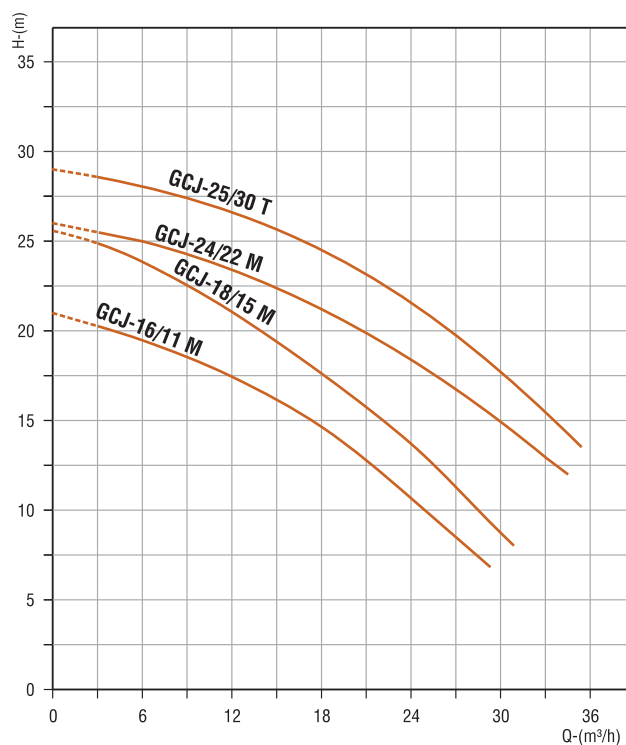
The performance data are at rated voltage and only indicative. Actual discharge depends on availability of water / tank, height of water column from the suction pipe end.

The information / descriptions / specifications / illustrations are subject to change due to further improvements in the product.

CENTRIFUGAL PUMPS - STAINLESS STEEL

GC SERIES

PERFORMANCE CURVES



PERFORMANCE TABLE

Model		kW	HP	Pipe Size in Inches (SucxDel)		Discharge															
						lps	0	0.8	1.7	2.5	3.3	4.2	5.0	5.8	6.7	7.5	8.3	9.2	10		
230V	380V				m³/h	0	3	6	9	12	15	18	21	24	27	30	33	36			
GCJ-16/11M	GCJ-16/11T	1.1	1.5	2 x 2	Head in metres	21	20	19	18.5	17.5	16.5	14.5	13	11	8.5	7 (29m³/h)					
GCJ-18/15M	GCJ-18/15T	1.5	2.0	2 x 2		25.5	25	23.5	22.5	21	19	17.5	16	13.5	11	8.5	8 (31m³/h)				
GCJ-24/22M	GCJ-24/22T	2.2	3.0	2 x 2		26	25.5	25	24.5	23.5	22.5	21.5	20	18.5	17	15	13	12 (34m³/h)			
-	GCJ-25/30T	3.0	4.0	2 x 2		29	28	28	27.5	26.5	25.5	24.5	23	22	20	17.5	15.5	13.5 (35m³/h)			

Curve tolerance according to ISO 9906, Annex A.

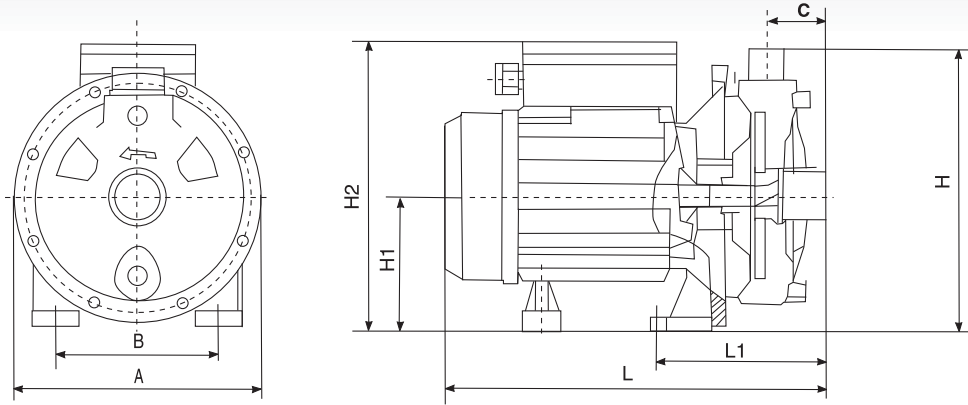
The performance data are at rated voltage and only indicative. Actual discharge depends on availability of water / tank, height of water column from the suction pipe end.

The information / descriptions / specifications / illustrations are subject to change due to further improvements in the product.

CENTRIFUGAL PUMPS - STAINLESS STEEL

GC SERIES

DIMENSIONAL DRAWING



DIMENSIONAL DATA

Model		kW	HP	A	B	C	H	H1	H2	L	L1	Approx. Nett. Wt. in kg
230V	380V											
GCJ-5/03M	GCJ-5/03T	0.37	0.5	170	100	50	180	84	186	270	120	6.5
GCJ-6/05M	GCJ-6/05T	0.55	0.75	213	140	47	222	110	242	313	138	12.5
GCJ-8/07M	GCJ-8/07T	0.75	1.0	213	140	47	222	110	242	313	138	13.5
GCJ-7/10M	GCJ-7/10T	1.0	1.3	213	140	47	222	110	242	313	138	15.5
GCJ-8/11M	GCJ-8/11T	1.1	1.5	213	140	47	222	110	242	313	138	15.5
GCJ-8/15M	GCJ-8/15T	1.5	2.0	234	150	49	240	120	251	337	140	18.5
GCJ-8/18M	GCJ-8/18T	1.8	2.5	234	150	49	240	120	251	337	140	22.0
GCJ-10/18M	GCJ-10/18T	1.8	2.5	231	140	47	222	110	255	366	138	21.5

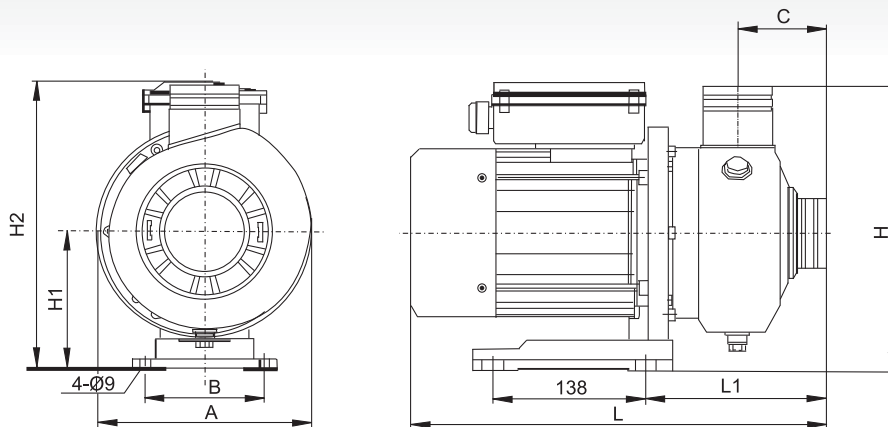
* Flange type Connection

* All Dimensions are in mm.

CENTRIFUGAL PUMPS - STAINLESS STEEL

GC SERIES

DIMENSIONAL DRAWING



DIMENSIONAL DATA

Model		kW	HP	A	B	C	H	H1	H2		L	L1	Approx. Nett. Wt. in kg
230V	380V								1Ph	3Ph			
GCJ-16/11M	GCJ-16/11T	1.1	1.5	193	108	82	258	125	265	235	378	165	16.5
GCJ-18/15M	GCJ-18/15T	1.5	2.0	193	108	82	258	125	265	235	378	165	18
GCJ-24/22M	GCJ-24/22T	2.2	3.0	193	108	82	258	125	242	242	415	165	22
-	GCJ-25/30T	3.0	4.0	193	108	82	258	125	-	242	432	165	23

* All Dimensions are in mm.

JET SELF PRIMING PUMPS

GJ SERIES

Gransa Jet Self-Priming pump's casing and ejector unit are designed carefully to give the best possible hydraulic efficiency and suction lift characteristics. Mechanical seals are made of carbon & ceramic which is precisely grounded to close tolerances. Shaft is made of quality steel & precisely grounded to ample size for transmitting the rated horse power, without any transmission loss. Most modern and highly sophisticated machinery and technology are employed in the manufacture of these pumps using quality raw materials & dynamically balanced impellers, rotors & shafts ensure longer life and noise free operation. The JTS series pumps are made of complete stainless steel construction which are more suitable for potable water. All single phase motors incorporated with thermal overload protector.

Features :

- | High operating efficiency resulting in lower power consumption.
- | Dynamically balanced rotating parts.
- | Inbuilt thermal overload protector in all single phase pumps.

Applications :

- | Residential
- | Irrigation
- | Small Farms
- | Pressure Boosting Units
- | Utility supply in Industrial
- | Food Processing Industries

Specifications :

Power Range	GJS : 0.37 kW - 1.1 kW GJB : 0.45 kW - 1.5 kW
Speed	2900 rpm
Degree of Protection	GJB : IP 44 GJS : IP 54 / IP 55 (Optional)
Class of insulation	"B" / "F"
Versions	Single phase - 230V, 50Hz A.C. supply (Permanent Split Capacitor-PSC) Incorporated with thermal overload protector Three phase - 380-415V, 50Hz A.C. supply
Direction of Rotation	Clock wise viewed from driving end
Type of Duty	S1 (Continuous)
Nominal Suction Size	1" & 1 1/4"
Nominal Delivery Size	1"

Materials of Construction :

	GJS	GJB
Pump Casing	S.S 304	Cast Iron
Motor Frame	Aluminum	Aluminum
Impeller	S.S 304	Bronze / Brass / Aluminium*
Shaft	S.S 304	S.S 304
Mechanical Seal	Carbon & Ceramic	Carbon & Ceramic



Pump Operating Limits :

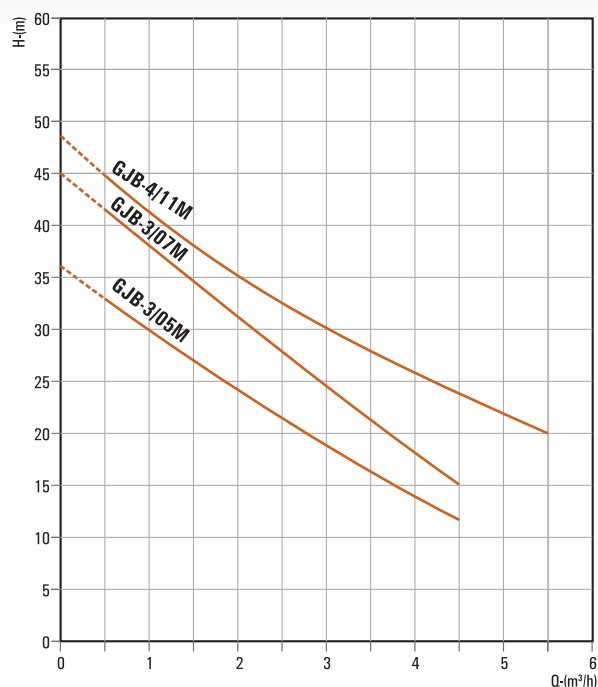
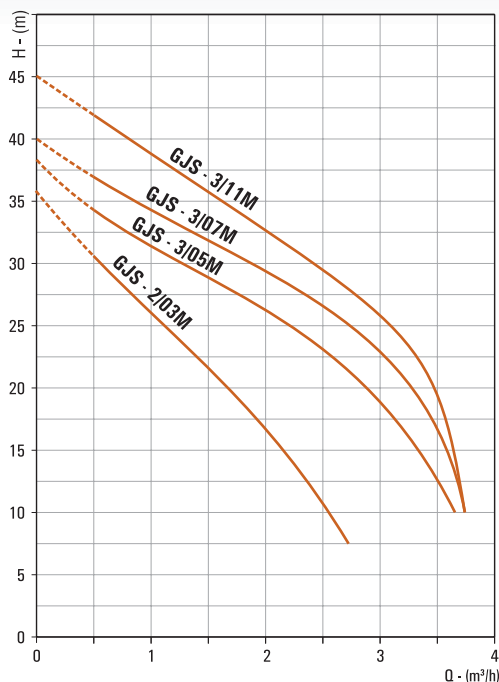
Maximum Head	48 m
Maximum Suction lift	upto 7 m
Maximum liquid Temperature	33°C
Maximum Ambient Temperature	40°C

* For Aluminium impeller pump models the third digit of the model name will be replaced with "A".

JET SELF PRIMING PUMPS

GJ SERIES

PERFORMANCE CURVES



PERFORMANCE TABLE

Model		kW	HP	Pipe Size in Inches (SucxDel)	Discharge									
230V	380V				Ips	0	0.1	0.3	0.4	0.6	0.7	0.8	1.0	1.04
					m³/h	0	0.5	1	1.5	2	2.5	3	3.5	3.75
GJS-2/03M	GJS-2/03T	0.37	0.5	1 x 1	Head in metres	36	31	26.5	21.5	17	11	17 (2.75m³/h)		
GJS-3/05M	GJS-3/05T	0.55	0.75	1 x 1		38	34	31.5	28.5	26.5	23	18.5	12.5	10 (3.7m³/h)
GJS-3/07M	GJS-3/07T	0.75	1.0	1 x 1		40	37	34	32	32	26.5	23	17	10
GJS-3/11M	GJS-3/11T	1.1	1.5	1 x 1		45	42	38.5	36	36	29.5	26.5	19.5	10

Model		kW	HP	Pipe Size in Inches (SucxDel)	Discharge							
230V	380V				Ips	0	0.3	0.6	0.8	1.1	1.4	1.6
					m³/h	0	1	2	3	4	5	6
GJB-3/05M	GJB-3/05T	0.55	0.75	1 x 1	Head in metres	36	32	24	19	14	12 (4.5m³/h)	
GJB-3/07M	GJB-3/07T	0.75	1	1 x 1		45	38	31.5	24.5	18	15 (4.5m³/h)	
GJB-4/11M	GJB-4/11T	1.1	1.5	1 x 1		48	41.5	35	30	26	22	20 (5.5m³/h)

Curve tolerance according to ISO 9906, Annex A.

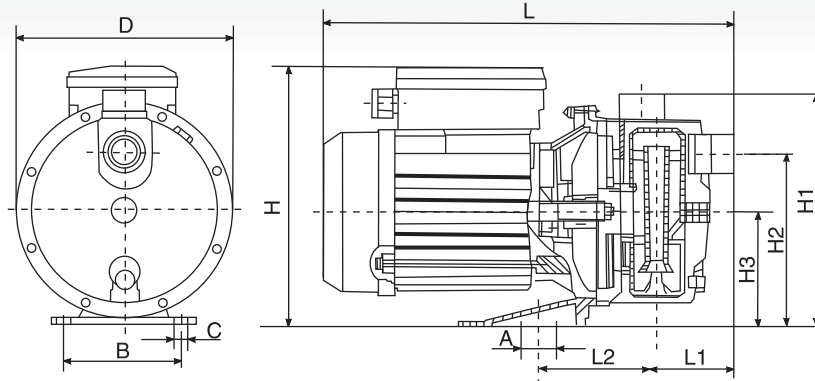
The performance data are at rated voltage and only indicative. Actual discharge depends on availability of water / tank, height of water column from the suction pipe end.

The information / descriptions / specifications / illustrations are subject to change due to further improvements in the product.

JET SELF PRIMING PUMPS

GJ SERIES

DIMENSIONAL DRAWING

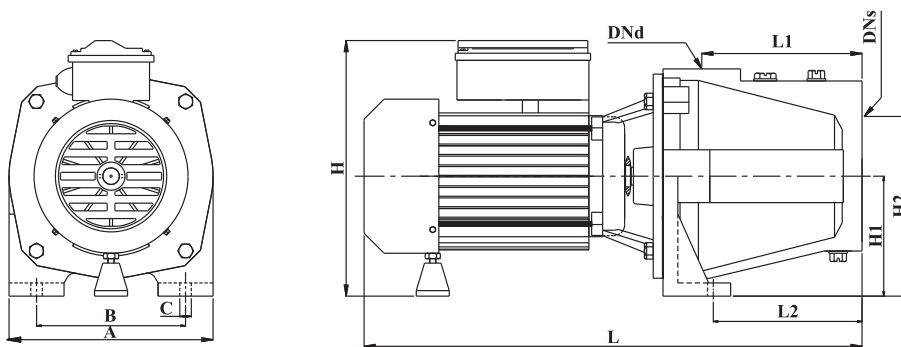


DIMENSIONAL DATA

Model		kW	HP	A	B	C	D	H	H1	H2	H3	L	L1	L2	Approx. Nett. Wt. in kg
230V	380V														
GJS-16/11M	GJS-16/11T	0.37	0.5	7	160	8	196	218	206	161	105	380	88	109	9
GJS-18/15M	GJS-18/15T	0.55	0.75	20	160	8	196	218	206	161	105	380	80	80	10
GJS-24/22M	GJS-24/22T	0.75	1.0	20	160	8	196	218	206	161	105	380	80	80	11
-	GJS-25/30T	1.1	1.5	-	160	8	196	218	206	161	105	380	97	-	11.5

* All Dimensions are in mm.

DIMENSIONAL DRAWING



DIMENSIONAL DATA

Model		kW	HP	Dns	Dnd	DIMENSIONS IN mm								Approx. Nett. Wt. in kg	
230V	380V					L	L1	L2	A	B	C	H1	H2		H
GJB-3/05M	GJB-3/05T	0.55	0.75	1"	1"	440	140	235	181	140	10	100	158	213	15
GJB-3/07M	GJB-3/07T	0.75	1	1"	1"	395	112.5	133	182	142	10	97	152.5	210	15.5
GJB-4/11M	GJB-4/11T	1.1	1.5	1 1/4"	1"	395	112.5	133	182	142	10	97	152.5	210	15.5
GJB-4/15M	GJB-4/15T	1.5	2	1 1/4"	1"	530	160	285	200	160	10	120	165	240	16.5

* All Dimensions are in mm.

CONVERSION TABLE

FLOW RATE

LITRE PER SECOND L/S	LITRE PER MINUTE L/MIN	CUBIC METER PER HOUR M ³ /H	CUBIC FOOT PER HOUR FT ³ /H	CUBIC FOOT PER MINUTE FT ³ /MIN	IMP. GALLON PER MINUTE IMP. GAL./MIN	US GALLON PER MINUTE US GAL./MIN	US BARREL PER DAY IS BARREL/D (PETROLEUM)
1	60	3.6	127.133	2.1189	13.2	15.85	543.439
0.017	1	0.06	2.1189	0.0353	0.22	0.264	9.057
0.278	16.667	1	35.3147	0.5886	3.666	4.403	150.955
0.008	0.472	0.0283	1	0.0167	0.104	0.125	4.275
0.472	28.317	1.6990	60	1	6.229	7.480	256.475
0.076	4.546	0.2728	9.6326	0.1605	1	1.201	41.175
0.063	3.785	0.2271	8.0209	0.1337	0.833	1	34.286
0.002	0.110	0.0066	0.2339	0.0039	0.024	0.029	1

LIQUID

CUBIC METER M ³	LITRE L	MILLI LITRE ML	IMP. GALLON IMP. GAL	US GALLON US GAL	CUBIC FOOT FT ³
1	1000	1 x 10 ⁶	220	264.2	35.3147
0.001	1	1000	0.22	0.2642	0.0353
1 x 10 ⁹	0.001	1	2.2 x 10 ⁻⁴	2.642 x 10 ⁻⁴	3.53 x 10 ⁻⁶
0.00455	4.546	4546	1	1.201	0.1605
0.00378	3.785	3785	0.8327	1	0.1337
0.0283	28.317	28317	6.2288	7.4805	1

LIQUID HEAD AND PRESSURE

NEWTON PER SQUARE METER N/M ² (PA)	KILO PASCAL KPA	BAR	KILOGRAM FORCE PER SQUARE CENTIMETER KGF/CM ²	POUND FORCE PER SQUARE INCH PSI	FOOT FOR WATER FT H ₂ O	METER OF WATER M H ₂ O	MILLIMETER OF MERCURY MM HG	INCH OF MERCURY IN HG
1	0.001	1 x 10 ⁻⁵	1.02 x 10 ⁻²	1.45 x 10 ⁻⁴	3.35 x 10 ⁻⁴	1.02 x 10 ⁻⁴	0.0075	2.95 x 10 ⁻⁴
1000	1	0.01	0.0102	0.145	0.335	0.102	7.5	0.295
1 x 10 ⁵	100	1	1.02	14.5	33.52	10.2	750.1	29.53
98,067	98.07	0.981	1	14.22	32.81	10	735.6	28.96
6895	6.895	0.069	0.0703	1	2.31	0.703	51.72	2.036
2984	2.984	0.03	0.0305	0.433	1	0.305	22.42	0.882
9789	9.789	0.098	0.1	1.42	3.28	1	73.42	2.891
133.3	0.133	0.0013	0.0014	0.019	0.045	0.014	1	0.039
3386	3.386	0.0338	0.0345	0.491	1.133	0.0345	25.4	1

LENGTH

MILLIMETER MM	CENTIMETER CM	METER M	INCH IN	FEET FT	YARD YD
1	0.1	0.001	0.0394	0.0033	0.0011
10	1	0.01	0.3937	0.0328	0.0109
1000	100	1	39.3701	3.2808	1.0936
25.4	2.54	0.0254	1	0.0833	0.0278
304.8	30.48	0.3048	12	1	0.3333
914.4	91.44	0.9144	36	3	1

1 KILOMETER = 1000 METRES = 0.62137 MILES 1 MILE = 1609.37 METRES = 1.60934 KILOMETERS

MASS

KILOGRAM KG	POUND LB	HUNDRED WEIGHT (cwt)	TONNE T	TON LONG TN	SHORT TON SH TN
1	2.205	0.0197	0.001	9.84 x 10 ⁻⁴	0.0011
0.454	1	0.0089	4.54 x 10 ⁻⁴	4.46 x 10 ⁻⁴	5.0 x 10 ⁻⁴
50.802	112	1	0.0508	0.05	0.056
1000	2204.6	19.684	1	0.9842	1.1023
1016	2240	20	1.0161	1	1.102
907.2	2000	17.857	0.9072	0.8929	1

TEMPERATURE

TO CONVERT FROM	TO	USE FORMULA
TEMPERATURE CELSIUS, TC	TEMPERATURE KELVIN, TK	K = TC + 273.15
TEMPERATURE FAHRENHEIT, TF	TEMPERATURE KELVIN, TK	K = (TF + 459.67 / 1.8)
TEMPERATURE CELSIUS, TC	TEMPERATURE FAHRENHEIT, TF	F = 1.8 TC + 32
TEMPERATURE FAHRENHEIT, TF	TEMPERATURE CELSIUS, TC	C = (TF - 32) / 1.8
TEMPERATURE KELVIN, TK	TEMPERATURE CELSIUS, TC	C = TK - 273.15
TEMPERATURE KELVIN, TK	TEMPERATURE FAHRENHEIT, TF	F = 1.8TK - 459.67

* For Aluminium impeller pump models the third digit of the model name will be replaced with "A".

Vision & Mission

To lead from the front and set the standard in providing fluid management solutions across a wide spectrum of industries across the globe. To make the world a better place by embracing viable, sustainable technologies and processes and enlightened business practices. Our experience, expertise, the quality of our people and, of course, our strong customer orientation would be factors that would leverage our efforts to achieve our ends and fulfil our avowed commitment to all our stakeholders.



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