



Sole Distribution by:

TIANJIN ELECMOTOR CO., LTD. (TELEC)

1215 No. 78, Shiyijing Road, He Dong District, Tianjin 300171 China
Tel: +86 22 84180992; 84180993; 84180995 Fax:86 22 84180998
<http://www.streampumps.com> Email: sales@streampumps.com





BRIEF

Introduction

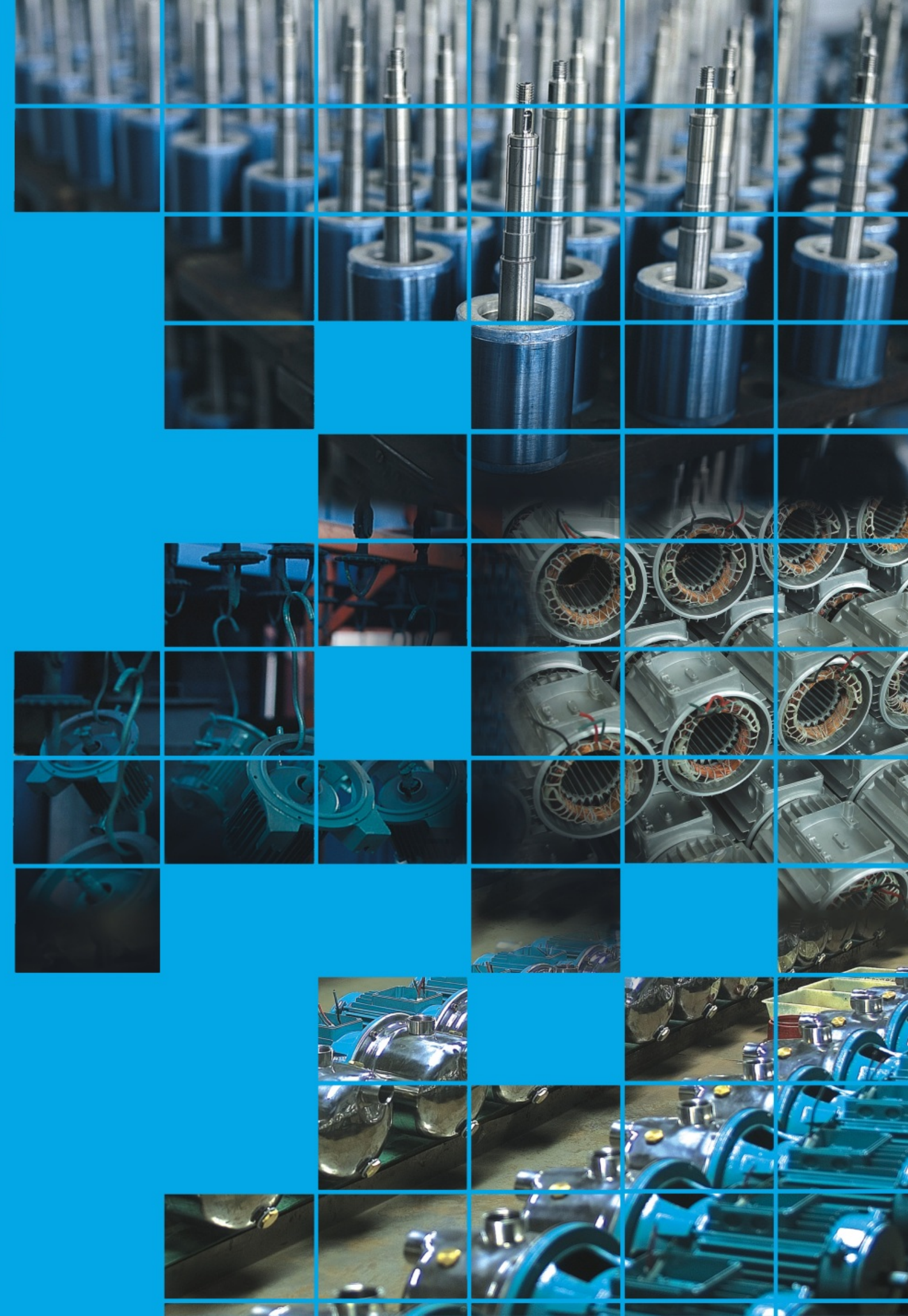
Water is life which flows to life. To understand the path that it takes from the subsoil to the light of the sun, is one of the most prodigious and essential for life discoveries that humankind has made.

As **Stream** we honest believe that taking our own responsibilities for expanding the water with human life relation, to meet various demands for applications in the domestic, civil, agricultural and industrial sectors.

The quality of components, the intensive study on constructional materials and criteria, and the continuous laboratory tests, plus the indispensable cooperation of the customers and users, confer to **Stream**, *The Sign of Quality*.

In line with the **Stream** policy of continuous improvement, **Stream** continues to perfect its technology with innovative design solutions and advanced manufacturing methods, resulting in a range of reliable products of Full stainless Vertical Multi-Stage pumps, Stainless Centrifugal pump, high-efficiency Deep well submersible pump as well as the Domestic pump etc.

Stream understand that to meet the challenge in the new millennium, the best is to align and continuously cooperate with its customers with qualified products, more competitive commercial conditions, more efficient service.



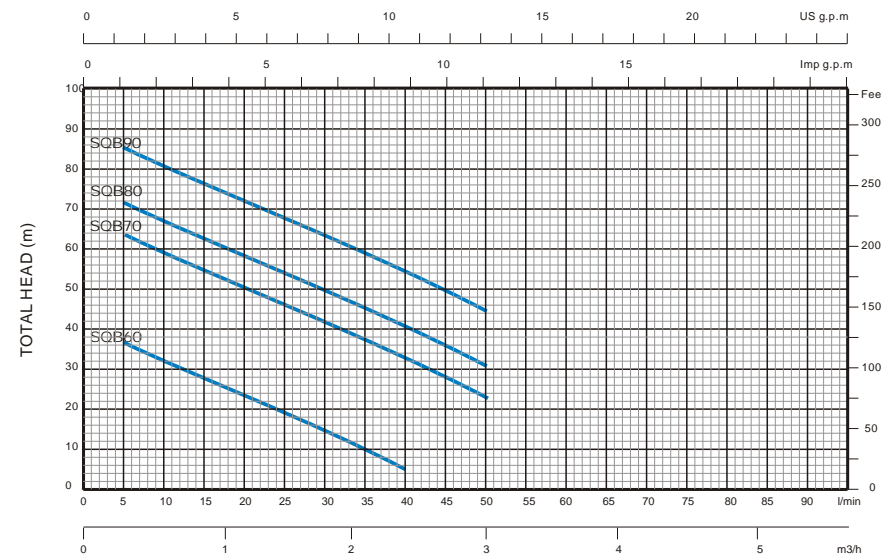


CONTENTS

	Peripheral pump	01-03
	Centrifugal Pump	04-08
	Self-Priming Jet Pump	09-13
	Drainage & Sewage Pump	14-22
	Garden Pump	23-25

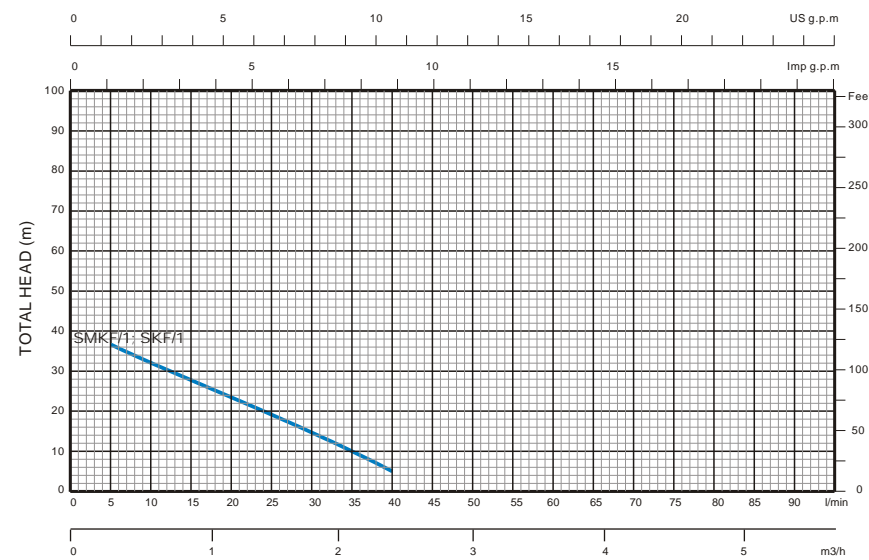
	Multi-Stage Pump	26-34
	Industrial Centrifugal Pump	35-40
	Spa & Swimming pool Pump	41-42
	Circulation Pump & Coolant Pump	43-44
	Deep well Submersible Motor & Pump	45-67
	Auto boosting Pump	68-70
	High Pressure Cleaner	71-72
	Power Sprayer Pump	73-74
	Pump spare parts & accessories	75-80
	TECHNICAL APPENDIX	81-85
	RAL COLOR SHEET	86

Peripheral electric pumps suitable for applications requiring high pressures in relation to moderate capacities and outputs. Cast Iron PUMP BODY & BRACKET; stamped Brass alloy IMPELLER; Carbon Steel or Stainless Steel Shaft; ceramic-graphite MECHANICAL SEAL. Closed, self-ventilated induction ELECTRIC MOTOR; Insulation Class F; IP44 Protection. Standard supply with 230V - 50HZ Single phase with built-in thermal protection. Other voltage & frequency are available based on requirement..

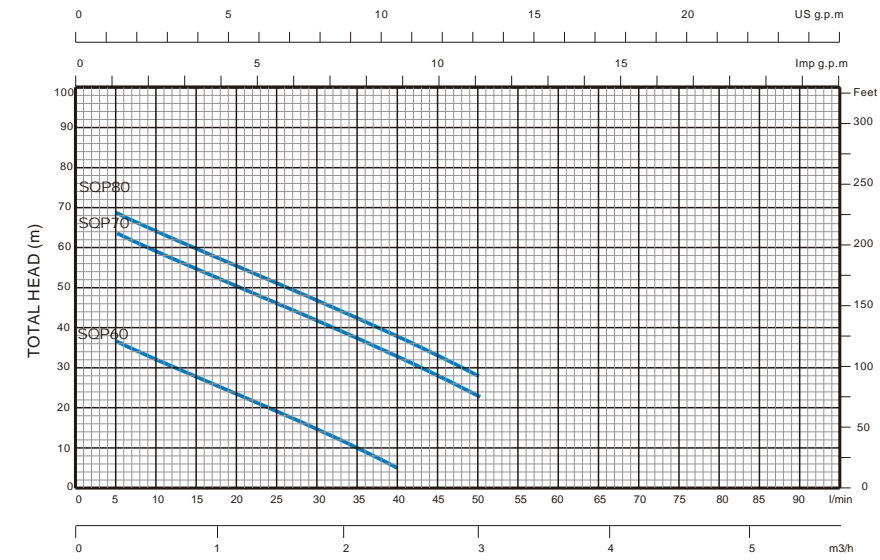


Series SQB

Code	Pompa Pump Pompe	HP HP CV	KW KW KW	Motore Motor Moteur	Aspirazione Mandata Suction Delivery	Prestazioni Performance Performances	Peso Weight (kg)	
					Q (l/min)	H (m)		
S010001	SQB60	0.50	0.37	230M	1 / 1	5-40	35-3	5.8
S010002	SQB70	0.75	0.55	230M	1 / 1	5-55	52-4	8.8
S010003	SQB80	1.00	0.75	230M	1.5 / 1.5	5-60	69-4	9.5
S010004	SQB90	1.50	1.10	230M	1.5 / 1.5	5-80	84-4	17.0

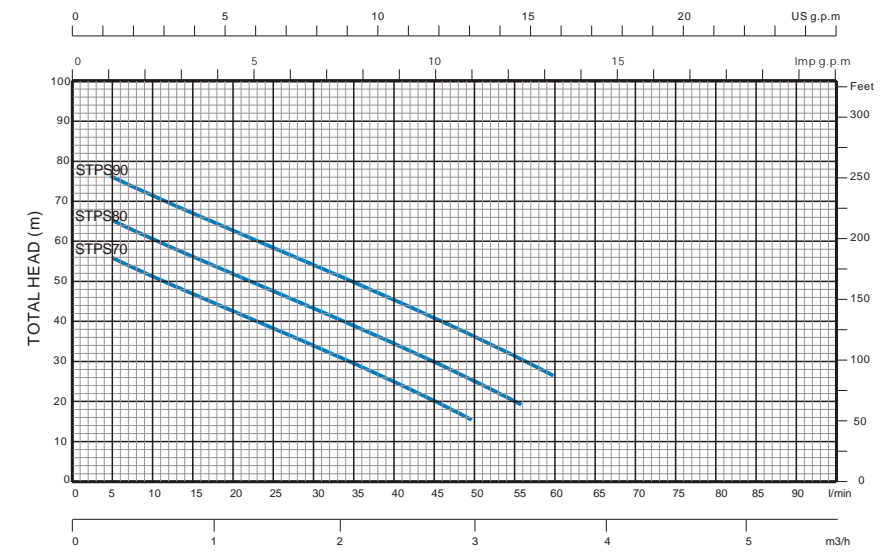


Code	Pompa Pump Pompe	HP HP CV	KW KW KW	Motore Motor Moteur	Aspirazione Mandata Suction Delivery	Prestazioni Performance Performances	Peso Weight (kg)	
					Q (l/min)	H (m)		
S010005	SMKF/1	0.50	0.37	230M	1 / 1	5-40	35-3	5.9
S010006	SKF/1	0.75	0.55	230M	1 / 1	5-40	35-3	6.0



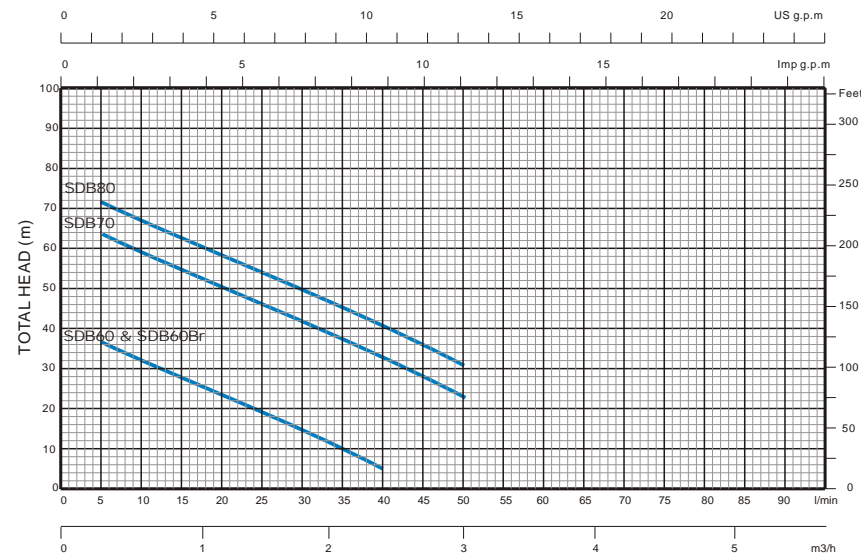
Series SQP

Code	Pompa Pump Pompe	HP HP CV	KW KW KW	Motore Motor Moteur	Aspirazione Mandata Suction Delivery	Prestazioni Performance Performances	Peso Weight (kg)	
					Q (l/min)	H (m)		
S010007	SQP60	0.50	0.37	230M	1 / 1	5-40	35-3	5.8
S010008	SQP70	0.75	0.55	230M	1 / 1	5-55	52-4	8.8
S010009	SQP80	1.00	0.75	230M	1 / 1	5-60	69-4	9.5

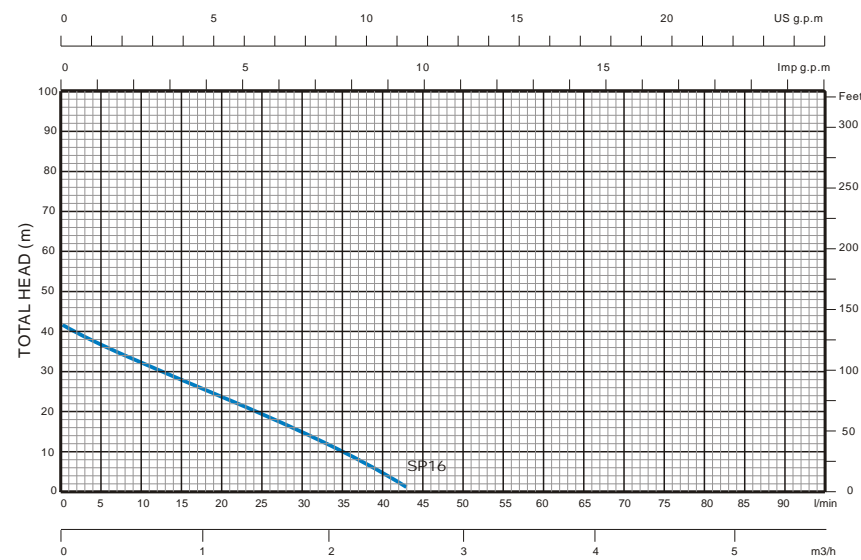


Series STPS

Code	Pompa Pump Pompe	HP HP CV	KW KW KW	Motore Motor Moteur	Aspirazione Mandata Suction Delivery	Prestazioni Performance Performances	Peso Weight (kg)	
					Q (l/min)	H (m)		
S010010	STPS70	0.75	0.55	230M	1 / 1	5-50	55-10	8.7
S010011	STPS80	1.00	0.75	230M	1 / 1	5-60	65-10	10.8
S010012	STPS90	1.50	1.10	230M	1.5 / 1.5	5-70	77-10	18.0



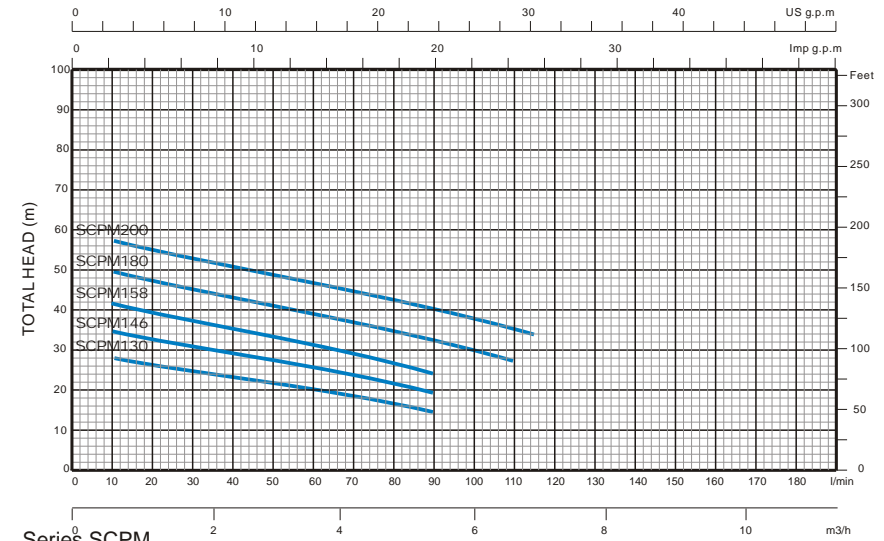
Code	Pompa Pump Pompe	HP HP CV	KW KW KW	Motore Motor Moteur	Aspirazione Mandata Suction Delivery	Prestazioni Performance Performances	Peso Weight (kg)	
					Q (l/min)	H (m)		
S010013	SDB60	0.50	0.37	230M	1 / 1	5-40	35-3	6.2
S010014	SDB70	0.75	0.55	230M	1 / 1	5-55	52-4	9.2
S010015	SDB80	1.00	0.75	230M	1 / 1	5-60	69-4	10.5
S010016	SDB60 Br	0.50	0.37	230M	1 / 1	5-40	35-3	6.8



Pompa tipo Type of Pump Bomba tipo	Potenza nominale Rated power Potencia nominal		Kw assorbiti Kw absorbed Kw absorbidos	Condensatore Capacitor Condensador		Corrente assorbita Current absorbed Corriente absorbida A(ampere) V 220-240 50Hz	PRESTAZIONI IDRAULICHE-HYDRAULIC PERFORMANCE-PRESTACIONES HIDRAULICAS Q-PORTATA-FLOW CAPACITY-CAUDAL						
	KW	HP		uF	V		l/min	10	15	20	25	30	35
MOTORE MONOFASE SINGLE PHASE MONOFASICO 220-240V 50 Hz							m ³ /h	0,6	0,9	1,2	1,5	1,8	2,1
SP16(GHISA)	0,3	0,4	0,48	10	450	2,4		33	28	23	17	128	7,5

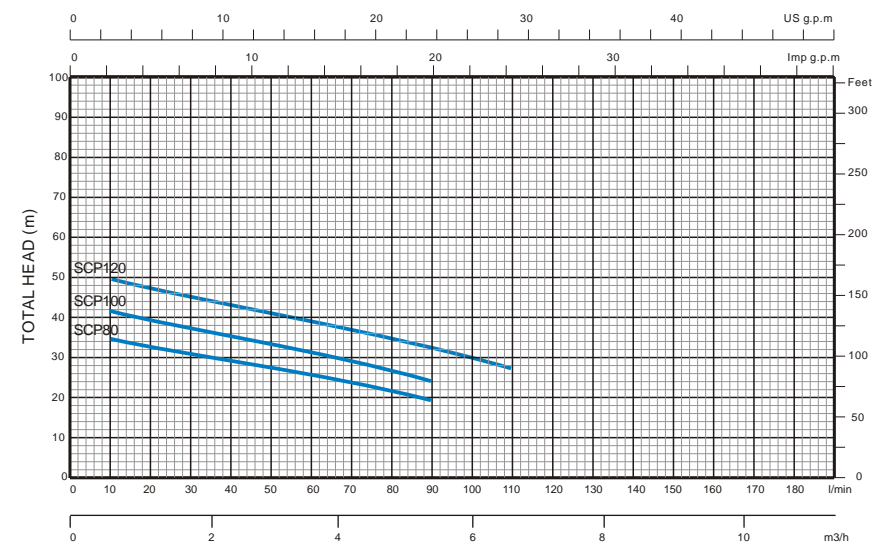
TIPO POMPA PUMP TYPE TIPO BOMBA	INGOMBRI E DIMENSIONI IN mm OVERALL DIMENSIONES EN mm											PESO WEIGHT	
	F	H	H1	L	C	W	M	M1	N	N1	S	DNM	Kg
SP 16	280	153	73	108	178	73	90	116	112	139	ø8	G 1"	8,5

CENTRIFUGAL electric pumps suitable for general pumping of clean water and liquids which are neither mechanically nor chemically aggressive for the pump components. Cast iron Pump body & Motor bracket. Noryl Impeller reinforced with fibreglass (GFN2V) or Stamped Brass Alloy; Stainless Steel Shaft (welded); Ceramic-graphite Mechanical Seal. Closed; Self-ventilated Electric Motor; Insulation class F; IP44 Protection. Standard 230V-50HZ Single phase with built-in thermal protection up to 2.2KW ; For Three phase pumps and those single-phase with an output greater than 2.2KW, the protection should be provided by the user. Max. Temperature of pumped liquid: 50C with Noryl Impeller, 90C with brass Impeller.



Series SCPM

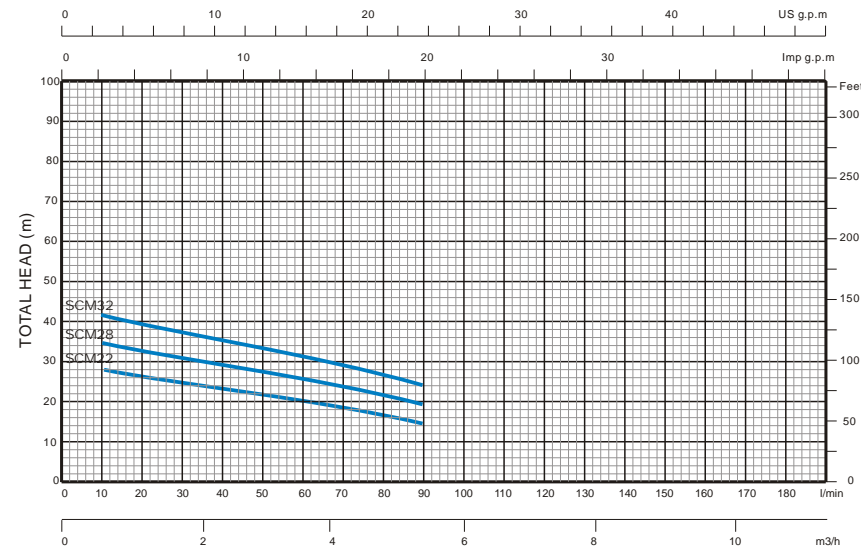
Code	Pompa Pump Pompe	HP HP CV	KW KW KW	Motore Motor Moteur	Aspirazione Mandata Suction Delivery	Prestazioni Performance Performances	Peso Weight (kg)	
					Q (l/min)	H (m)		
S020001	SCPM130	0.50	0.37	230M	1 / 1	20-90	18-12	9.0
S020002	SCPM146	0.75	0.55	230M	1 / 1	20-90	23-18	12.0
S020003	SCPM158	1.00	0.75	230M	1 / 1	20-90	28-22	13.2
S020004	SCPM180	1.50	1.10	230M	1 / 1	20-110	35-26	14.1
S020005	SCPM200	2.00	1.50	230M	1 / 1	20-115	42-31	15.5



Series SCP

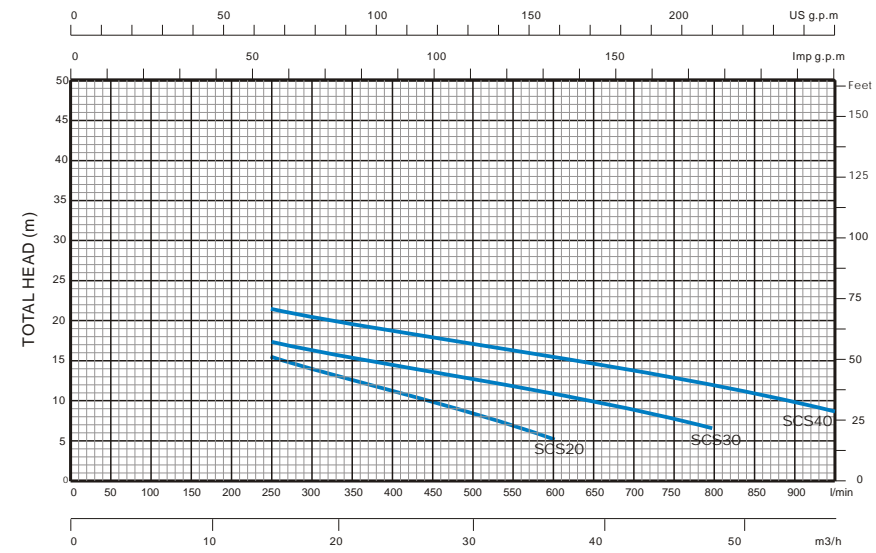
Code	Pompa Pump Pompe	HP HP CV	KW KW KW	Motore Motor Moteur	Aspirazione Mandata Suction Delivery	Prestazioni Performance Performances	Peso Weight (kg)	
					Q (l/min)	H (m)		
S020006	SCP80	0.75	0.55	230M	1 / 1	20-90	23-18	11.7
S020007	SCP100	1.00	0.75	230M	1 / 1	20-90	28-22	13.6
S020008	SCP120	1.50	1.10	230M	1 / 1	20-110	35-26	14.6





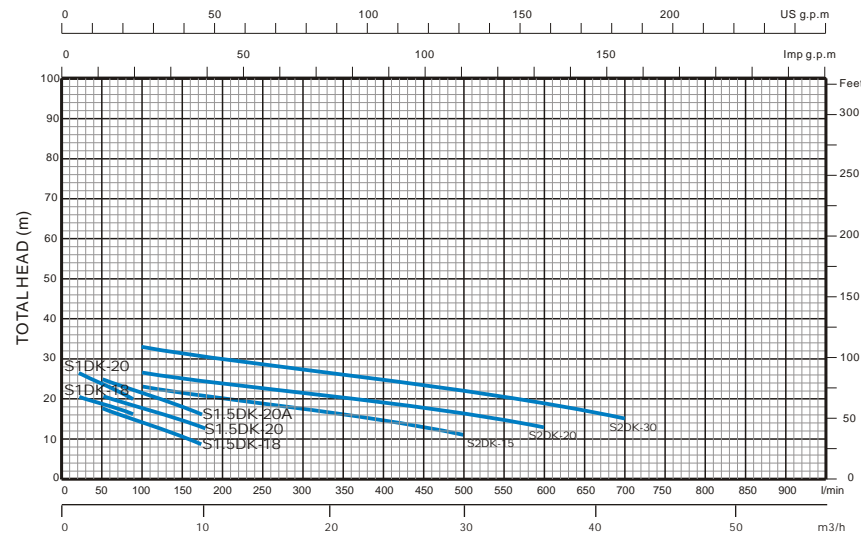
Series SCM

Code	Pompa Pump Pompe	HP HP CV	KW KW KW	Motore Motor Moteur	Aspirazione Mandata Suction Delivery	Prestazioni Performance Performances	Peso Weight (kg)
						Q (l/min) H (m)	
S020009	SCM22	0.50	0.37	230M	1 / 1	20-90 18-12	10.0
S020010	SCM32	0.75	0.55	230M	1 / 1	20-90 23-18	12.2
S020011	SCM28	1.00	0.75	230M	1 / 1	20-90 28-22	13.6



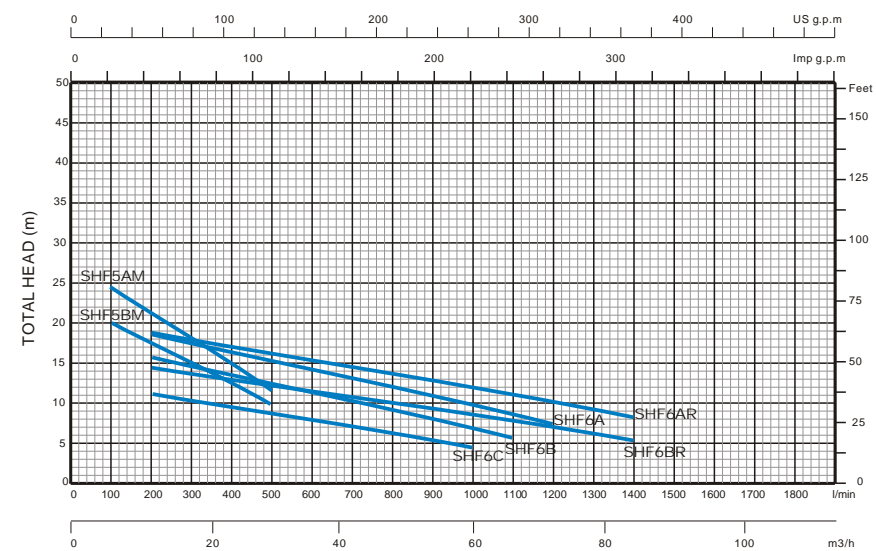
Series SCS

Code	Pompa Pump Pompe	HP HP CV	KW KW KW	Motore Motor Moteur	Aspirazione Mandata Suction Delivery	Prestazioni Performance Performances	Peso Weight (kg)
						Q (l/min) H (m)	
S020020	SCS20	2.00	1.50	230M	3 / 3	250-600 15-4	27.8
S020021	SCS30	3.00	2.20	230M	3 / 3	250-800 17-6	31.6
S020022	SCS40	4.00	3.00	230M	3 / 3	250-1000 21-8	33.2



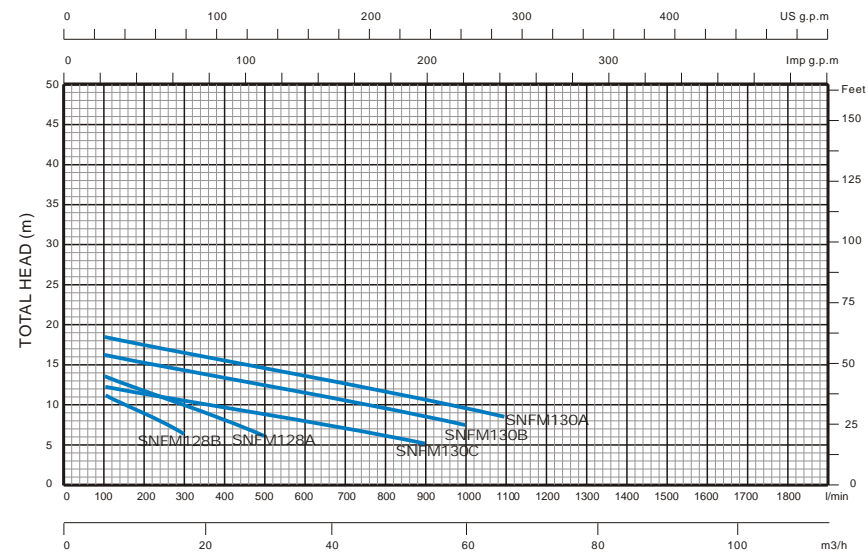
Series SDK

Code	Pompa Pump Pompe	HP HP CV	KW KW KW	Motore Motor Moteur	Aspirazione Mandata Suction Delivery	Prestazioni Performance Performances	Peso Weight (kg)
						Q (l/min) H (m)	
S020012	S1DK-18	0.75	0.55	230M	1 / 1	20-90 20-15	9.0
S020013	S1DK-20	1.00	0.75	230M	1 / 1	20-90 26-18	12.0
S020014	S1.5DK-18	0.75	0.55	230M	1.5 / 1.5	50-150 18-10	10.5
S020015	S1.5DK-20	1.00	0.75	230M	1.5 / 1.5	50-200 20-12	13.0
S020016	S1.5DK-20A	1.50	1.10	230M	1.5 / 1.5	50-250 24-14	16.2
S020017	S2DK-15	1.50	1.10	230M	2 / 2	100-500 20-10	23.0
S020018	S2DK-20	2.00	1.50	230M	2 / 2	100-600 24-11	25.0
S020019	S2DK-30	3.00	2.20	230M	2 / 2	100-700 33-12	27.0



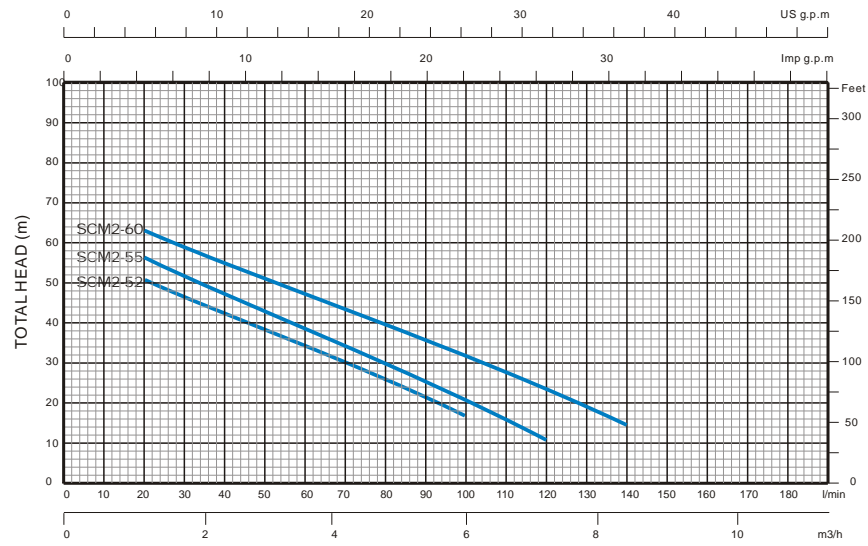
Series SHF

Code	Pompa Pump Pompe	HP HP CV	KW KW KW	Motore Motor Moteur	Aspirazione Mandata Suction Delivery	Prestazioni Performance Performances	Peso Weight (kg)
						Q (l/min) H (m)	
S020023	SHF5BM	1.50	1.10	230M	2 / 2	100-500 20-9	21.0
S020024	SHF5AM	2.00	1.50	230M	2 / 2	100-500 24-11	22.2
S020025	SHF6C	1.50	1.10	230M	3 / 3	200-1000 11-4	28.5
S020026	SHF6B	2.00	1.50	230M	3 / 3	200-1100 15-5	29.6
S020027	SHF6A	3.00	2.20	230M	3 / 3	200-1200 18-7	33.0
S020028	SHF6BR	2.00	1.50	230M	4 / 4	200-1400 14-5	30.0
S020029	SHF6AR	3.00	2.20	230M	4 / 4	200-1400 18-8	36.0



Series SNF

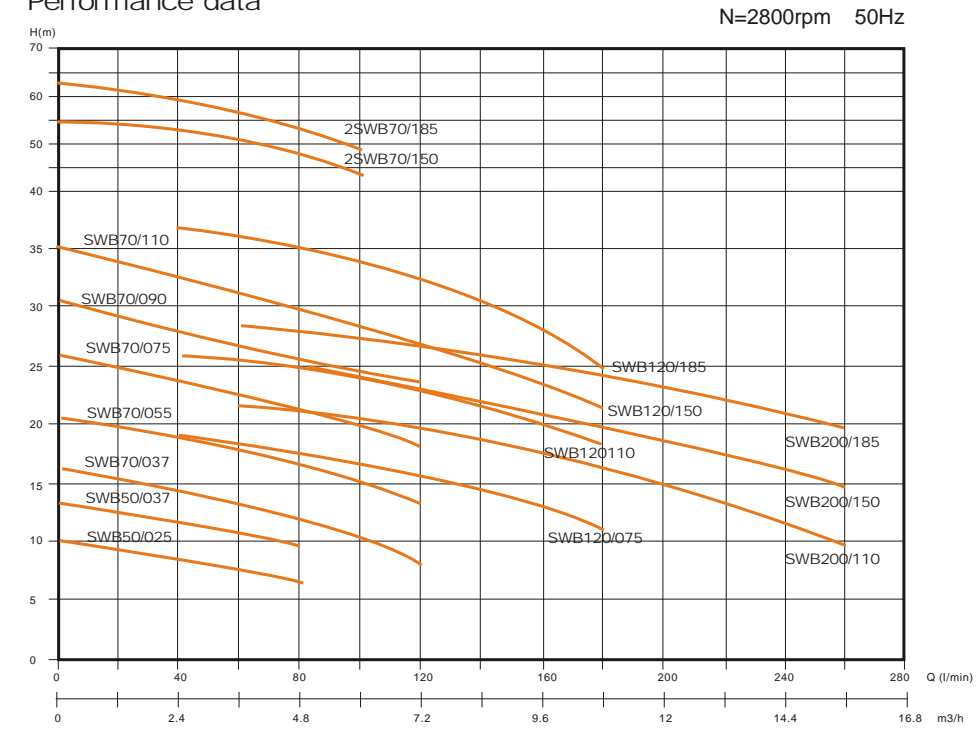
Code	Pompa Pump Pompe	HP HP CV	KW KW KW	Motore Motor Moteur	Aspirazione Mandata Suction Delivery	Prestazioni Performance Performances	Peso Weight (kg)	
					Q (l/min)	H (m)		
S020030	SNFM128B	0.75	0.55	230M	2 / 2	100-400	11-6	18.0
S020031	SNFM128A	1.00	0.75	230M	2 / 2	100-500	13-6	20.0
S020032	SNFM130C	1.50	1.10	230M	3 / 3	100-900	12-5	30.0
S020033	SNFM130B	2.00	1.50	230M	3 / 3	100-1000	16-7	32.0
S020034	SNFM130A	3.00	2.20	230M	3 / 3	100-1100	18-8	37.0



Series SCM2

Code	Pompa Pump Pompe	HP HP CV	KW KW KW	Motore Motor Moteur	Aspirazione Mandata Suction Delivery	Prestazioni Performance Performances	Peso Weight (kg)	
					Q (l/min)	H (m)		
S020035	SCM2-52	1.50	1.10	230M	1.25 / 1	20-100	50-18	23.5
S020036	SCM2-55	2.00	1.50	230M	1.25 / 1	20-120	56-10	25.0
S020037	SCM2-60	3.00	2.20	230M	1.5 / 1.25	20-140	61-14	31.0

Performance data



Symbols

SWB (2SWB) Series Stainless Steel Centrifugal pumps are suitable for clean media which are non-aggressive to stainless steel 304 or 316L. The pump casing, back-cover, impeller and pump shaft are in AISI304 or AISI316L, With Aluminum Casing motor, and motor bracket, NBR/Ceramic/Carbon graphite Mechanical seal. Max. Working pressure: 8 bar, and flow temp. -15C ~ +80C, Suction size : G1.25", G1.5", Discharge size : G1"; Motor overload thermal protector for Single phase is available upon request

Performance data

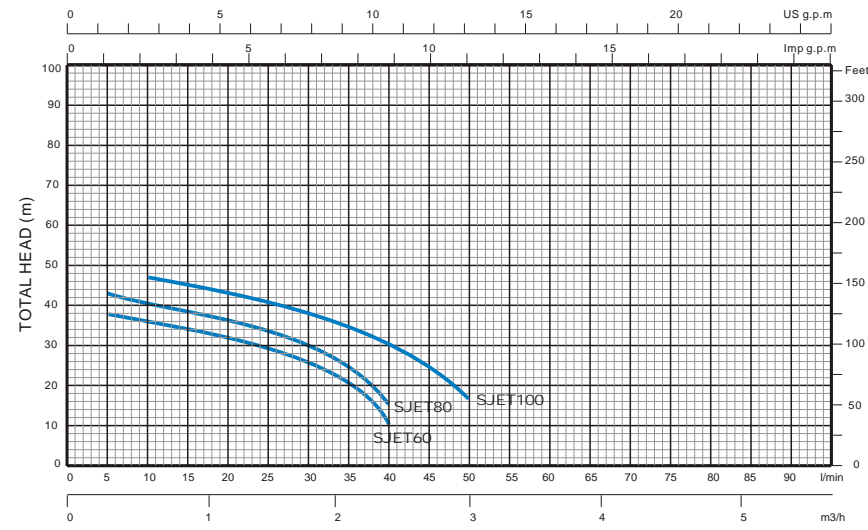
Water test temperature: 20°C. Performance limits: ISO2548 specifications for standard class C pumps.

N=2800rpm

Single phase 220V 50HZ	Three phase 380V 50HZ	POWER		Suction head M	Capacity Q														Weight Kg	
		KW	HP		1/min	20	40	60	80	100	120	140	160	180	200	220	240	260		
					m³/h	1.2	2.4	3.6	4.8	6.0	7.2	8.4	9.6	10.8	12	13.2	14.4	15.6		
2SWBD70/150	2SWB70/150	1.50	2.0	8		54	52	50	47	43								5.1		
2SWBD70/185	2SWB70/185	1.85	2.5	8		61	58	56	52	48								6.1		
SWBD50/025	SWB50/025	0.25	0.33	8		9.5	8.5	7.5	6.5									8.1		
SWBD50/037	SWB50/037	0.37	0.5	8		12.5	11.5	10	9									8.8		
SWBD70/037	SWB70/037	0.37	0.5	8		16	15	13.5	13	11.5	10							10		
SWBD70/055	SWB70/055	0.55	0.75	8		19	18	17	16	15	14							11		
SWBD70/075	SWB70/075	0.75	1.0	8		25	24	22.5	22	20	19							14.6		
SWBD70/090	SWB70/090	0.90	1.2	8		29	28	27	26	24	23							10		
SWBD70/110	SWB70/110	1.10	1.5	8		33	32	31	30	28.5	27							11.6		
SWBD120/075	SWB120/075	0.75	1.0	8			19	27.5	17	15.8	15	14	12	11				15.8		
SWBD120/110	SWB120/110	1.10	1.5	8				26	25	24	23	22	21	20	18			17		
SWBD120/150	SWB120/150	1.50	2.0	8				31	30	29	28	27	25	24	21			11.6		
SWBD120/185	SWB120/185	1.85	2.5	8				37	35.5	34	33	32	30	28	25			15		
SWBD200/110	SWB200/110	1.10	1.5	8					21	20.5	20	19	18	17	16	15	13	12	9	16
SWBD200/150	SWB200/150	1.50	2.0	8					25.5	25	24	23	22	21.5	21	20	18	17	15	17.8
SWBD200/185	SWB200/185	1.85	2.5	8					28.5	28	27.5	27	26.5	26	25	24	23	22	21	19.6

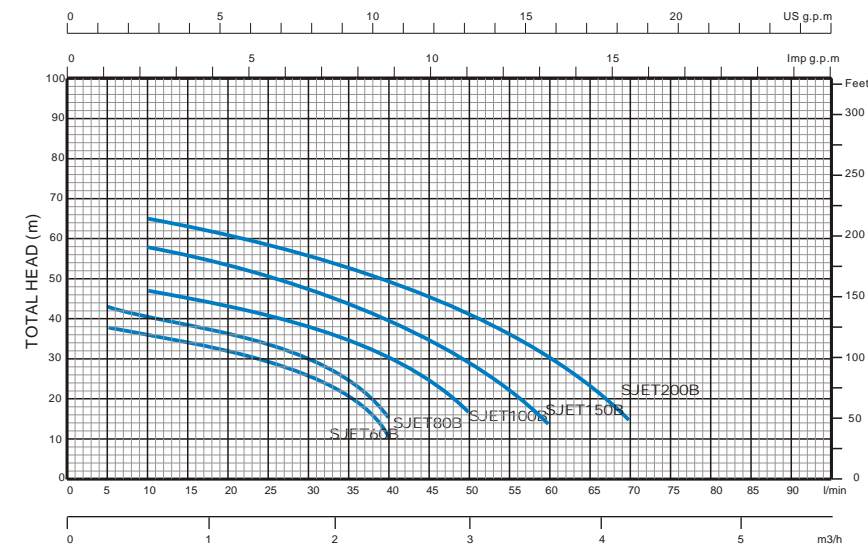


SELF-PRIMING JET Pumps suitable for suction up to 8-9m in depth, specifically indicated for pumping water mixed with air and/or gas. Cast Iron PUMP BODY & BRACKET; DIFFUSER and VENTURI SYSTEM in noryl reinforced with fiberglass (GFN2V); Noryl or Brass IMPELLER; Stainless Steel Shaft; ceramic-graphite MECHANICAL SEAL. Closed, self-ventilated induction ELECTRIC MOTOR; Insulation Class F; IP44 Protection. Standard supply with 230V - 50HZ Single phase with built-in thermal protection. 230/400V-50HZ Three phase with protection to be provided by the user. Max. Temp. Of pumped liquid: 50C, Max. Working Pressure: 6bar



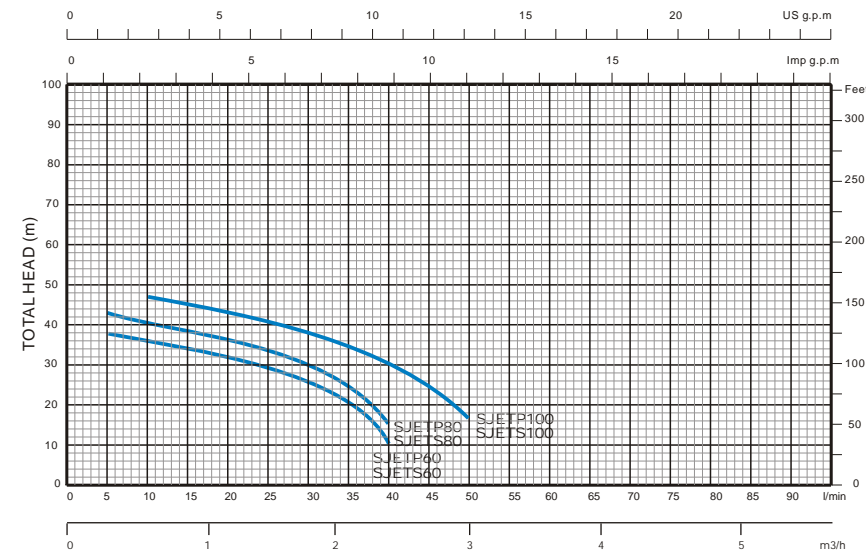
Series SJET

Code	Pompa Pump Pompe	HP HP CV	KW KW KW	Motore Motor Moteur	Aspirazione Mandata Suction Delivery	Prestazioni Performance Performances	Peso Weight (kg)
						Q (l/min) H (m)	
S030001	SJET60	0.50	0.37	230M	1 / 1	5-40 37-10	13.0
S030002	SJET80	0.75	0.55	230M	1 / 1	5-40 42-15	15.0
S030003	SJET100	1.00	0.75	230M	1 / 1	10-50 47-16	18.0



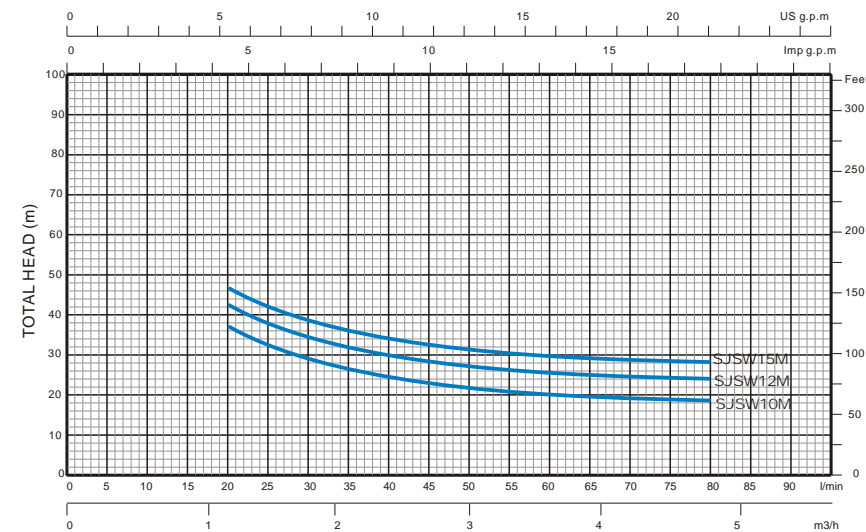
Series SJET(B)

Code	Pompa Pump Pompe	HP HP CV	KW KW KW	Motore Motor Moteur	Aspirazione Mandata Suction Delivery	Prestazioni Performance Performances	Peso Weight (kg)
						Q (l/min) H (m)	
S030004	SJET60B	0.50	0.37	230M	1 / 1	5-40 36-10	14.3
S030005	SJET80B	0.75	0.55	230M	1 / 1	5-40 42-15	17.6
S030006	SJET100B	1.00	0.75	230M	1 / 1	10-50 47-16	18.6
S030007	SJET150B	1.50	1.10	230M	1.5 / 1.25	10-60 58-12	21.0
S030008	SJET200B	2.00	1.50	230M	1.5 / 1.25	10-70 64-12	24.0



Series SJETP/SJETS

Code	Pompa Pump Pompe	HP HP CV	KW KW KW	Motore Motor Moteur	Aspirazione Mandata Suction Delivery	Prestazioni Performance Performances	Peso Weight (kg)
						Q (l/min) H (m)	
S030009	SJETP60	0.50	0.37	230M	1 / 1	5-40 36-10	7.8
S030010	SJETP80	0.75	0.55	230M	1 / 1	5-40 42-15	12.0
S030011	SJETP100	1.00	0.75	230M	1 / 1	10-50 47-16	13.0
S030012	SJETS60	0.50	0.37	230M	1 / 1	5-40 36-10	8.2
S030013	SJETS80	0.75	0.55	230M	1 / 1	5-40 42-15	12.5
S030014	SJETS100	1.00	0.75	230M	1 / 1	10-50 47-16	13.5

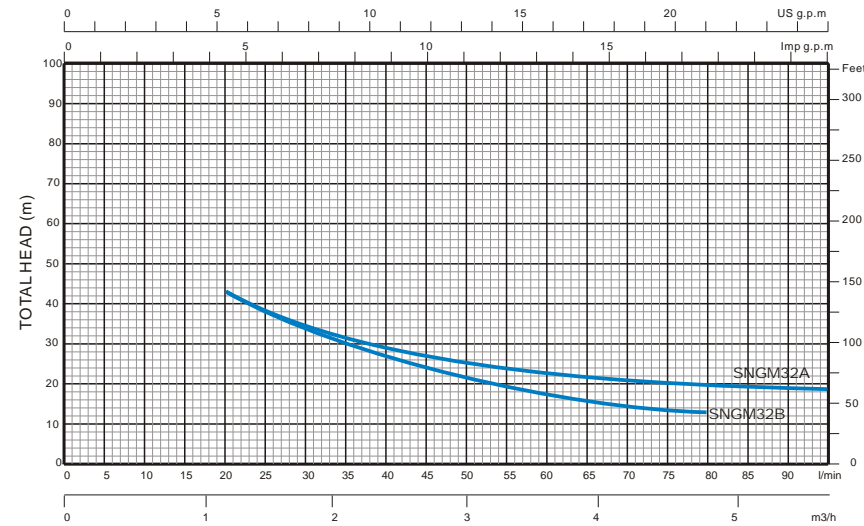


Series SJSW

Code	Pompa Pump Pompe	HP HP CV	KW KW KW	Motore Motor Moteur	Aspirazione Mandata Suction Delivery	Prestazioni Performance Performances	Peso Weight (kg)
						Q (l/min) H (m)	
S030015	SJSW10M	1.00	0.75	230M	1 / 1	20-80 36-19	16.0
S030016	SJSW12M	1.20	0.90	230M	1 / 1	20-80 42-24	16.5
S030017	SJSW15M	1.50	1.10	230M	1 / 1	20-80 46-28	16.8

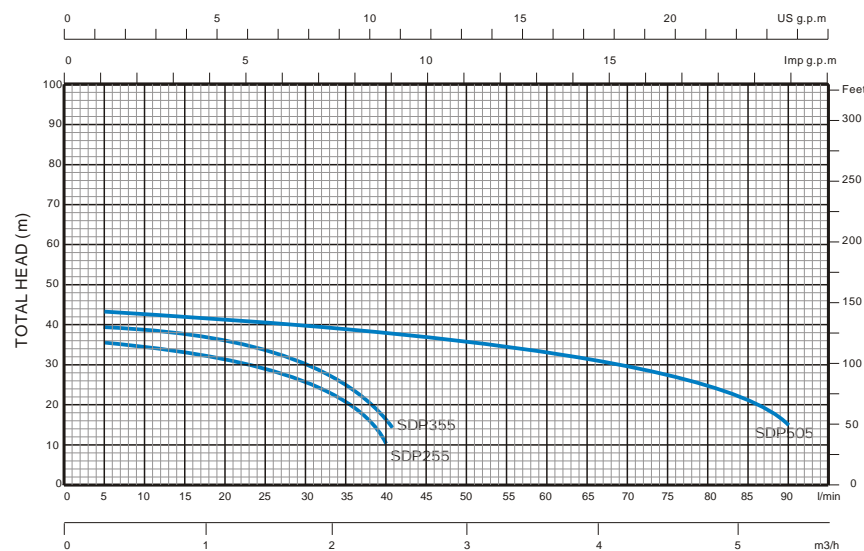


SELF-PRIMING JET Pumps suitable for high suction depth, specifically indicated for pumping water mixed with air and/or gas. Cast Iron PUMP BODY & BRACKET; DIFFUSER and VENTURI SYSTEM in noryl reinforced with fiberglass (GFN2V); Noryl or Brass IMPELLER; Stainless Steel Shaft; ceramic-graphite MECHANICAL SEAL. Closed, self-ventilated induction ELECTRIC MOTOR; Insulation Class F; IP44 Protection. Standard supply with 230V - 50HZ Single phase with built-in thermal protection. 230/400V-50HZ Three phase with protection to be provided by the user. Max. Temp. Of pumped liquid: 50C, Max. Working Pressure: 8 bar



Series SNGM32 Suction Max. 30m

Code	Pompa Pump Pompe	HP HP CV	KW KW KW	Motore Motor Moteur	Aspirazione Mandata Suction Delivery	Prestazioni Performance Performances Q (l/min) H (m)	Peso Weight (kg)
S030018	SNGM32B	1.50	1.10	230M	1.5 / 1	20-80 42-12	36.0
S030019	SNGM32A	2.00	1.50	230M	1.5 / 1	20-100 42-18	37.2



Series SDP

Code	Pompa Pump Pompe	HP HP CV	KW KW KW	Motore Motor Moteur	Aspirazione Mandata Suction Delivery	Prestazioni Performance Performances Q (l/min) H (m)	Peso Weight (kg)
S030020	SDP255 S.max.=15m	0.75	0.55	230M	1.25 / 1	5-40 35-10	16.5
S030021	SDP355 S.max.=25m	1.00	0.75	230M	1.25 / 1	5-42 38-12	17.6
S030022	SDP505 S.max.=20m	1.50	1.00	230M	1.25 / 1	5-90 42-14	27.8

SELF-PRIMING JET Pumps suitable for suction up to 50 m in depth, Cast iron PUMP BODY, BRACKET and EJECTOR ASSEMBLED; IMPELLER in Noryl reinforced with fiberglass (GFN2V) or in Brass; DIFFUSER and VENTURI TUBE in Noryl reinforced with fiberglass; brass NOZZLE; Stainless Steel Shaft; ceramic-graphite MECHANICAL SEAL. Closed, self-ventilated induction ELECTRIC MOTOR; Insulation Class F; IP44 Protection. Standard supply with 230V - 50HZ Single phase with built-in thermal protection. 230/400V-50HZ Three phase with protection to be provided by the user. Max. Temp. Of pumped liquid: 50C, Max. Working Pressure: 6 bar IMPORTANT: Always indicated the type of ejector requested.

Series SAP with 2 Submerged Ejector for 2 Well

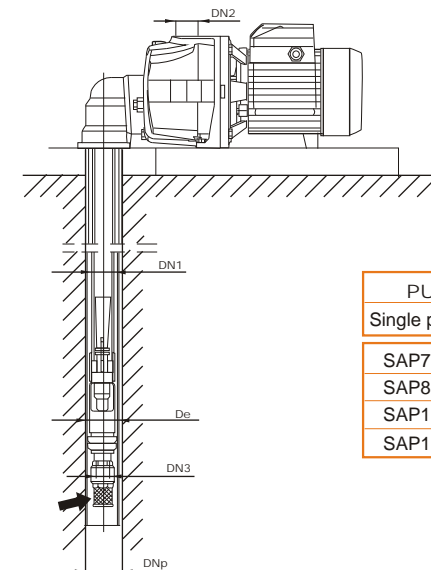
PERFORMANCE RANGE
Suction lift down to 45 m
Flow rate up to 1200 l/h



(WITH EXTERNAL EJECTOR)

PUMP MODEL	POWER	HS	FLOW RATE LITRES/HOUR														
			0	120	240	360	480	600	720	840	960	1080	1200				
Single phase	Three phase	KW	HP	TOTAL DYNAMIC HEAD IN METERS													
SAP70-2 "	SAPt70-2 "	0.50	0.70	15	46	42	37	34	30	28	25	22	19	17			
SAP85-2 "	SAPt85-2 "	0.60	0.85	15	50	46	42	39	35	32	30	27	24	21	19		
SAP100-2 "	SAPt100-2 "	0.75	1	15	54	50	46	43	39	36	34	31	28	25	23		
SAP150-2 "	SAPt150-2 "	1.1	1.5	15	85	78	74	70	66	61	57	53	48	44	40		
SAP70-2 "	SAPt70-2 "	0.50	0.70	20	34	29	24	21	18	16	13	11					
SAP85-2 "	SAPt85-2 "	0.60	0.85	20	38	33	29	26	23	21	18	16	14				
SAP100-2 "	SAPt100-2 "	0.75	1	20	40	35	31	28	25	23	20	18	16				
SAP150-2 "	SAPt150-2 "	1.1	1.5	20	71	63	58	54	50	46	43	39	36	34			
SAP70-2 "	SAPt70-2 "	0.50	0.70	25	28	24	20	18	15	13							
SAP85-2 "	SAPt85-2 "	0.60	0.85	25	32	28	25	23	20	17	14						
SAP100-2 "	SAPt100-2 "	0.75	1	25	35	31	28	26	23	20	17						
SAP150-2 "	SAPt150-2 "	1.1	1.5	25	64	59	55	51	47	43	39	36					
SAP70-2 "	SAPt70-2 "	0.50	0.70	30	23	18	13										
SAP85-2 "	SAPt85-2 "	0.60	0.85	30	27	22	18	15									
SAP100-2 "	SAPt100-2 "	0.75	1	30	28	24	21	17									
SAP150-2 "	SAPt150-2 "	1.1	1.5	30	56	50	46	42	38	34	31						
SAP85-2 "	SAPt85-2 "	0.60	0.85	35	21	15											
SAP100-2 "	SAPt100-2 "	0.75	1	35	23	18	15										
SAP150-2 "	SAPt150-2 "	1.1	1.5	35	51	45	41	37	33								
SAP150-2 "	SAPt150-2 "	1.1	1.5	40	41	36	33										
SAP150-2 "	SAPt150-2 "	1.1	1.5	45	36	30											

HS =SUCTION LIFE



PUMP MODEL		DNP Dn1 Dn2 Dn3 De				
Single phase	Three phase	DNP	Dn1	Dn2	Dn3	De
SAP70	SAPt70	2"	1/4"	1"	1"	49
SAP85	SAPt85	2"	1/4"	1"	1"	49
SAP100	SAPt100	2"	1/4"	1"	1"	49
SAP150	SAPt150	2"	1/4"	1"	1"	49



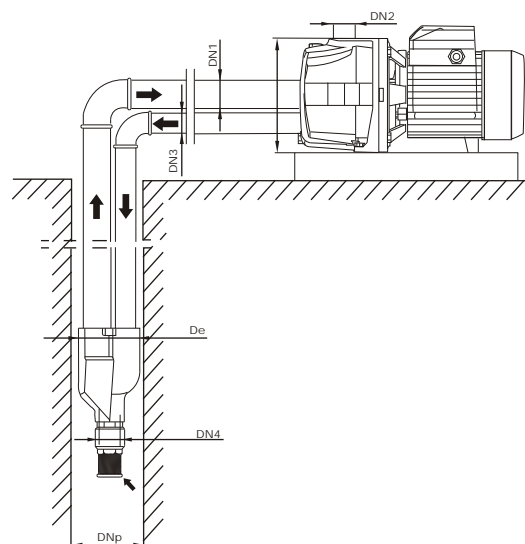
Series SAP with 4 Submerged Ejector for 4 Well

PERFORMANCE RANGE
Suction lift down to 45 m
Flow rate up to 3600 l/h

(WITH EXTERNAL EJECTOR)

PUMP MODEL		POWER		HS M	FLOW RATE LITRES/HOUR											
Single phase	Three phase	KW	HP		0	120	240	360	480	600	720	840	960	1080	1200	
					TOTAL DYNAMIC HEAD IN METERS											
SAP70-4 "	SAPt70-4 "	0.50	0.70	15	46	42	37	34	30	28	25	22	19	17		
SAP85-4 "	SAPt85-4 "	0.60	0.85		50	46	42	39	35	32	30	27	24	21	19	
SAP100-4 "	SAPt100-4 "	0.75	1		54	50	46	43	39	36	34	31	28	25	23	
SAP150-4 "	SAPt150-4 "	1.1	1.5		85	78	74	70	66	61	57	53	48	44	40	
SAP70-4 "	SAPt70-4 "	0.50	0.70	20	34	29	24	21	18	16	13	11				
SAP85-4 "	SAPt85-4 "	0.60	0.85		38	33	29	26	23	21	18	16	14			
SAP100-4 "	SAPt100-4 "	0.75	1		40	35	31	28	25	23	20	18	16			
SAP150-4 "	SAPt150-4 "	1.1	1.5		71	63	58	54	50	46	43	39	36	34		
SAP70-4 "	SAPt70-4 "	0.50	0.70	25	28	24	20	18	15	13						
SAP85-4 "	SAPt85-4 "	0.60	0.85		32	28	25	23	20	17	14					
SAP100-4 "	SAPt100-4 "	0.75	1		35	31	28	26	23	20	17					
SAP150-4 "	SAPt150-4 "	1.1	1.5		64	59	55	51	47	43	39	36				
SAP70-4 "	SAPt70-4 "	0.50	0.70	30	23	18	13									
SAP85-4 "	SAPt85-4 "	0.60	0.85		27	22	18	15								
SAP100-4 "	SAPt100-4 "	0.75	1		28	24	21	17								
SAP150-4 "	SAPt150-4 "	1.1	1.5		56	50	46	42	38	34	31					
SAP85-4 "	SAPt85-4 "	0.60	0.85	35	21	15										
SAP100-4 "	SAPt100-4 "	0.75	1		23	18	15									
SAP150-4 "	SAPt150-4 "	1.1	1.5		51	45	41	37	33							
SAP150-4 "	SAPt150-4 "	1.1	1.5		41	36	33									
SAP150-4 "	SAPt150-4 "	1.1	1.5	40	36	33										
SAP150-4 "	SAPt150-4 "	1.1	1.5	45	36	30										

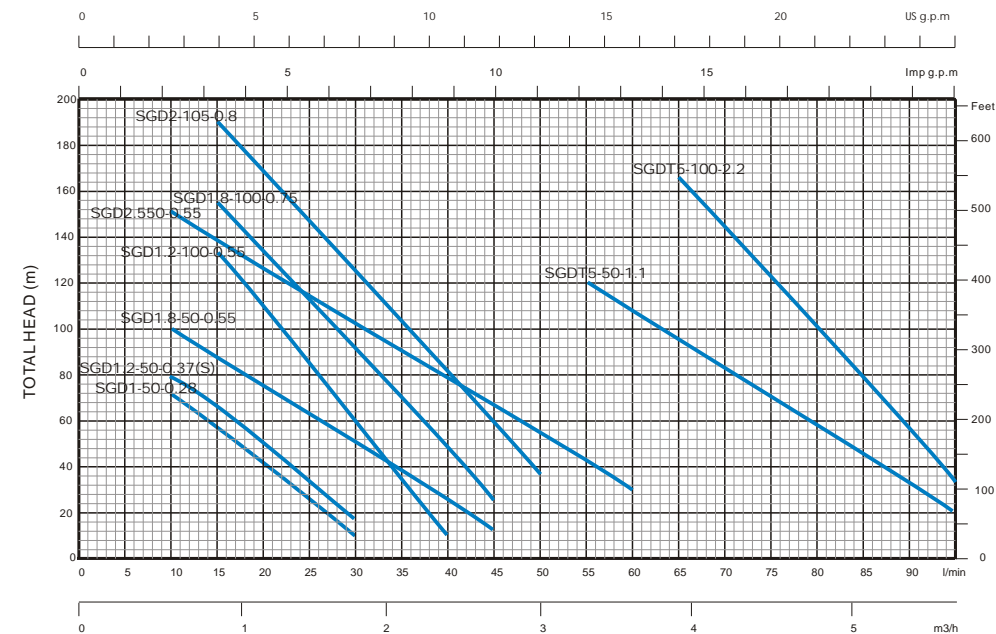
HS = SUCTION LIFE



Before installing the pump verify that all pipes (iron, plastic or rubber) are clean inside so to avoid any obstruction to the ejector nozzle. At the foot of the ejector must be installed a foot valve or a check valve. Installed the pump, fill completely both pipe and pump body with clean water. To preserve an efficient priming it is necessary a certain pression in the circuit, therefore it is recommended to install a membrane tank at the delivery of the pumps.

PUMP MODEL		DNP	Dn1	Dn2	Dn3	De
Single phase	Three phase					
SAP70	SAPt70	4"	1 1/4"	1"	1"	96
SAP85	SAPt85	4"	1 1/4"	1"	1"	96
SAP100	SAPt100	4"	1 1/4"	1"	1"	96
SAP150	SAPt150	4"	1 1/4"	1"	1"	96

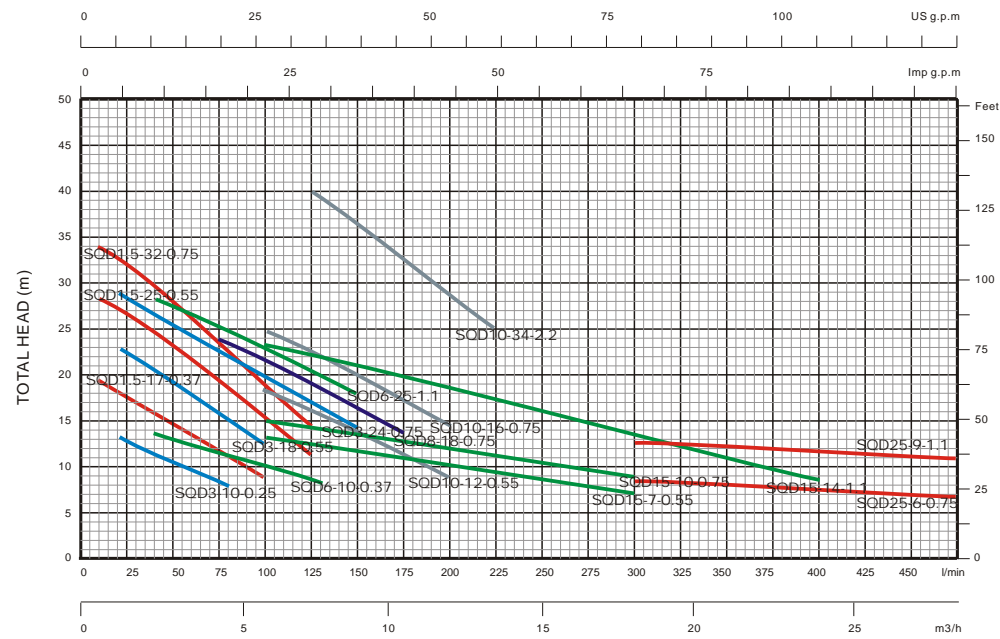
SERIES SGD Screw type Submersible Pump suitable for suction up to 10-180m in depth, specifically indicated for pumping water mixed with air and/or gas. These pumps are featured with high head, low energy consumption, low noise and stable operation. Single phase with built-in type thermal protector. Max. Temp. Of pumped liquid: 50C, Max. Working Pressure: 14bar



Series SGD

Code	Pompa Pump Pompe	HP HP CV	KW KW KW	Motore Motor Moteur	Mandata Delivery	Prestazioni Performance Performance Q (l/min)	H (m)	Peso Weight (kg)
S040001	SGD1-50-0.28	0.40	0.28	230M	1	10-30	70-10	12.0
S040002	SGD1.2-50-0.37	0.50	0.37	230M	1	10-30	78-17	13.5
S040003	SGD1.2-50-0.37S	0.50	0.37	230M	1	10-30	78-17	11.0
S040004	SGD1.2-100-0.55	0.75	0.55	230M	1	15-40	133-10	22.0
S040005	SGD1.8-50-0.55	0.75	0.55	230M	1	10-45	100-12	14.0
S040006	SGD1.8-100-0.75	1.00	0.75	230M	1	15-45	155-25	24.0
S040007	SGD2-105-0.8	1.10	0.80	230M	1	15-50	170-38	25.0
S040008	SGD2.5-50-0.55	0.75	0.55	230M	1.5	10-60	130-15	22.0
S040009	SGDT5-50-1.1	1.50	1.10	380T	2	50-100	100-20	27.0
S040010	SGDT5-100-2.2	3.00	2.20	380T	2	65-110	145-15	42.0

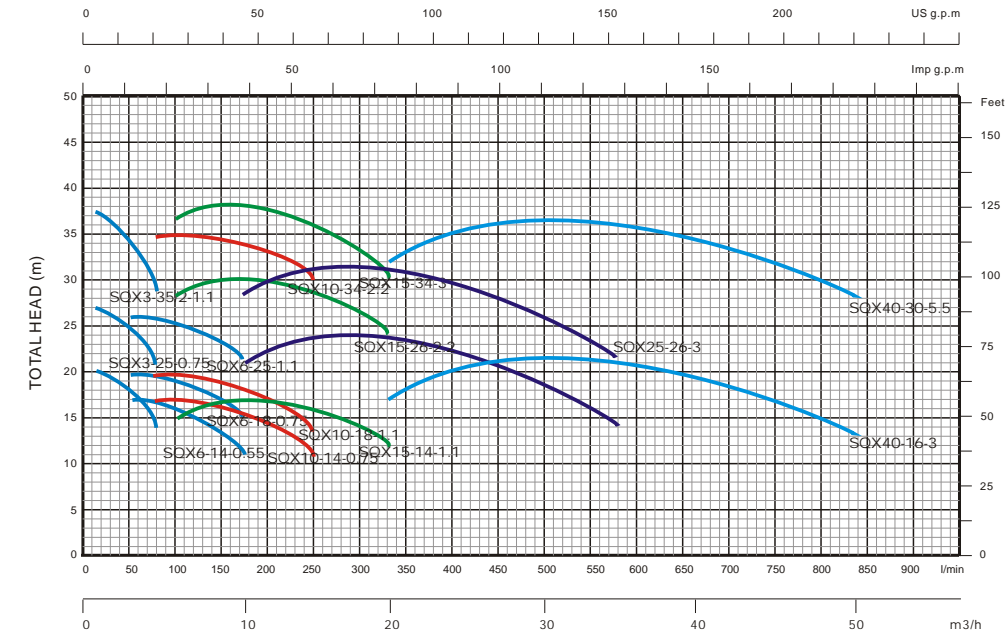




Series SQD

Code	Pompa Pump Pompe	HP HP CV	KW KW KW	Motore Motor Moteur	Mandata Delivery	Prestazioni Performance Performances Q (l/min)	H (m)	Peso Weight (kg)
S040011	SQD1.5-17-0.37	0.50	0.37	230M	1	10-100	19-9	6.5
S040012	SQD1.5-25-0.55	0.75	0.55	230M	1	10-125	28-12	9.5
S040013	SQD1.5-32-0.75	1.00	0.75	230M	1	10-125	34-14	11.5--
S040014	SQD3-10-0.25	0.33	0.25	230M	1	20-80	13-8	7.5
S040015	SQD3-18-0.55	0.75	0.55	230M	1.25	20-100	22-12	9.5
S040016	SQD3-24-0.75	1.00	0.75	230M	1.25	20-150	29-14	11.0
S040017	SQD6-10-0.37	0.50	0.37	230M	2	40-130	13-8	12.1
S040018	SQD6-25-1.1	1.50	1.10	230M	2	40-150	28-18	24.0
S040019	SQD8-18-0.75	1.00	0.75	230M	1.5	75-175	23-13	11.0
S040020	SQD10-12-0.55	0.75	0.55	230M	1.5	100-200	17-8	9.5
S040021	SQD10-16-0.75	1.00	0.75	230M	2	100-200	25-14	11.0
S040022	SQD10-34-2.2	3.00	2.20	230M	2	125-225	40-25	37.0
S040023	SQD15-7-0.55	0.75	0.55	230M	2	100-300	12-7	9.5
S040024	SQD15-10-0.75	1.00	0.75	230M	2.5	100-300	14-9	11.5
S040025	SQD15-14-1.1	1.50	1.10	230M	3	100-400	23-8	17.0
S040026	SQD25-6-0.75	1.00	0.75	230M	3	300-500	8-5	16.5
S040027	SQD25-9-1.1	1.50	1.10	230M	3	300-500	12-8	17.5

SQD (Single phase) & SQX (Three phase) Submersible pump are half open impeller centrifugal submersible pumps, designed for automatic and non-automatic use. The impeller, mounted on the end of the drive shaft, consists of a real disk and blades, which are enclosed by the pump body cover. Pump casing made by Aluminum body, S/S seal with carbon graphite to ceramic or SiC to graphite With our without float switch, round shape or square shape. Cast Iron impeller or nylon impeller with technopolymer half open type; With thermal overload protector in Single phase motor.

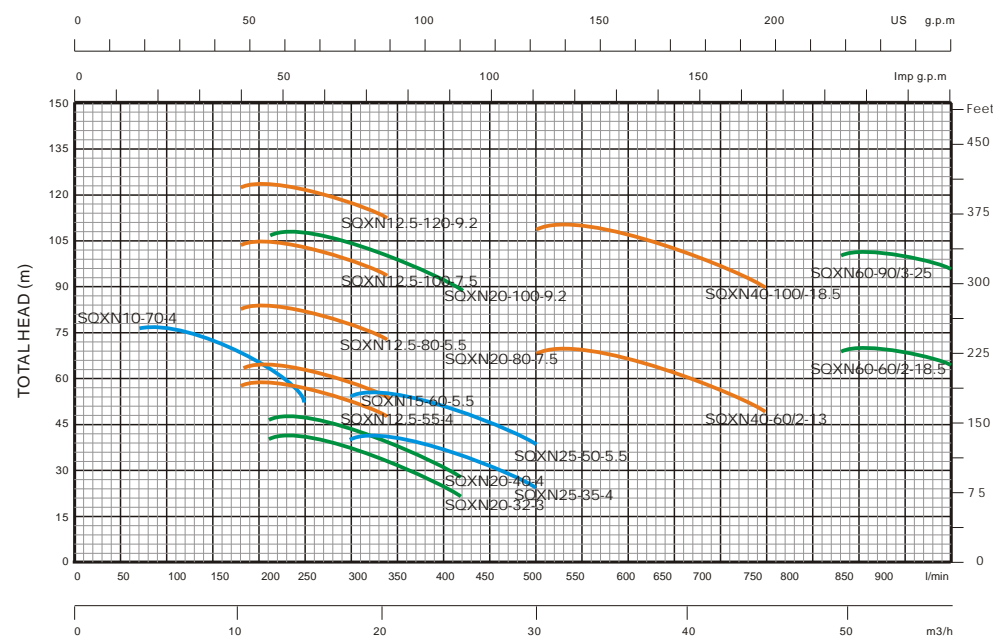


Series SQX

Code	Pompa Pump Pompe	HP HP CV	KW KW KW	Motore Motor Moteur	Mandata Delivery	Prestazioni Performance Performances Q (l/min)	H (m)	Peso Weight (kg)
S040028	SQX3-18-0.55	0.75	0.55	380T	1	1-5	20-14	20
S040029	SQX3-25-0.75	1.00	0.75	380T	1	1-5	26-21	22
S040030	SQX3-35/2-1.1	1.50	1.00	380T	1	1-5	37-29	28
S040031	SQX6-14-0.55	0.75	0.55	380T	1.5	3-10	16-11	20
S040032	SQX6-18-0.75	1.00	0.75	380T	1.5	3-10	19-15	21
S040033	SQX6-25-1.1	1.50	1.10	380T	1.5	3-10	26-21	25
S040034	SQX10-14-0.75	1.00	0.75	380T	1.5	5-15	16-11	21
S040035	SQX10-18-1.1	1.50	1.10	380T	1.5	5-15	19-14	25
S040036	SQX10-34-2.2	3.00	2.20	380T	1.5	5-15	35-30	37
S040037	SQX15-14-1.1	1.50	1.10	380T	2	5-20	15-13	25
S040038	SQX15-26-2.2	3.00	2.20	380T	2	5-20	28-24	38
S040039	SQX15-34-3	4.00	3.00	380T	2	5-20	36-30	44
S040040	SQX25-18-2.2	3.00	2.20	380T	2.5	10-35	21-15	40
S040041	SQX25-26-3	4.00	3.00	380T	2.5	10-35	28-22	45
S040042	SQX40-16-3	4.00	3.00	380T	3	20-50	18-13	45
S040043	SQX40-30-5.5	7.50	5.50	380T	3	20-50	32-27	80

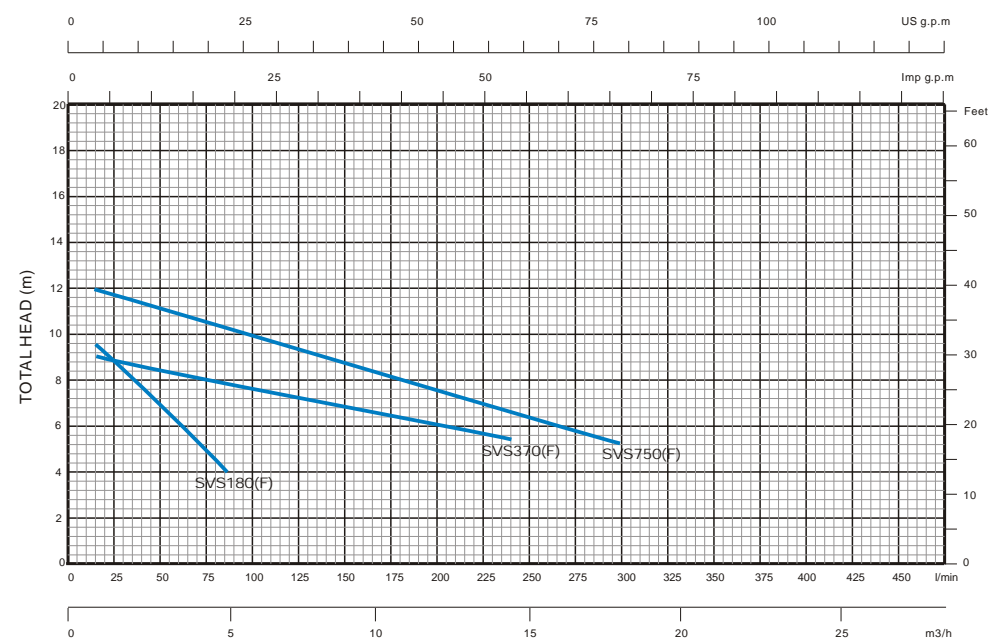


SQXN (Three phase) Multi-Stage Submersible pump are half open impeller centrifugal submersible pumps, designed for automatic and non-automatic use. The impeller, mounted on the end of the drive shaft, consists of a real disk and blades, which are enclosed by the pump body cover. Pump casing made by Aluminum body, S/S seal with carbon graphite to ceramic or SiC to graphite With our without float switch, round shape or square shape. Cast Iron impeller or nylon impeller with technopolymer half open type;



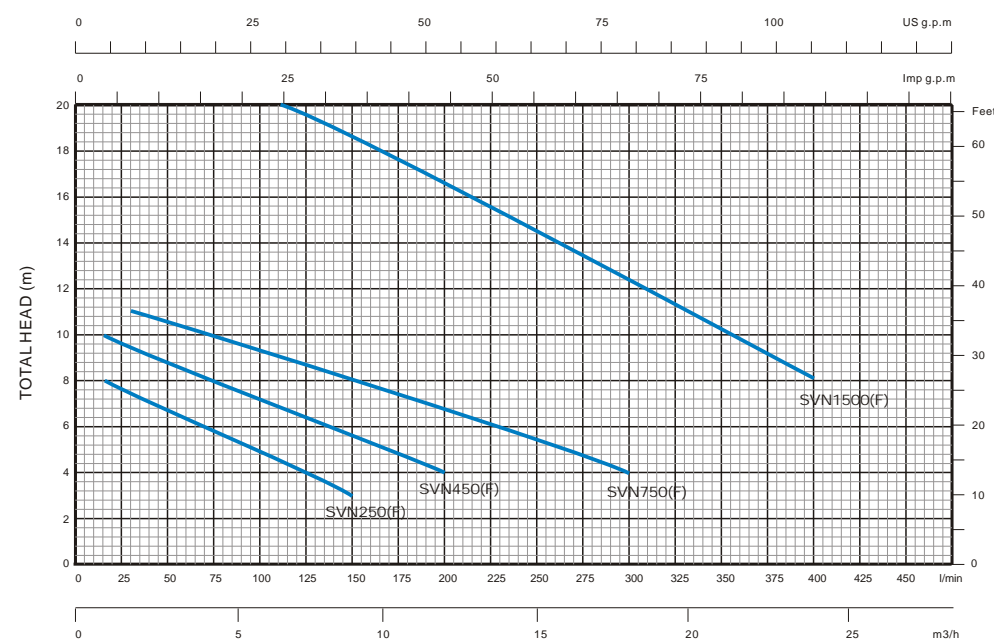
Series SQXN

Code	Pompa Pump Pompe	HP HP CV	KW KW KW	Motore Motor Moteur	Mandata Delivery	Prestazioni Performance Performances Q (l/min)	H (m)	Peso Weight (kg)
S040044	SQXN10-70-4	5.5	4.0	380T	2	5-15	76-52	74
S040045	SQXN12.5-55-4	5.5	4.0	380T	2	10-20	58-48	65
S040046	SQXN12.5-80-5.5	7.5	5.5	380T	2	10-20	83-72	80
S040047	SQXN12.5-100-7.5	10	5.5	380T	2	10-20	103-94	98
S040048	SQXN12.5-120-9.2	12.5	9.2	380T	2	10-20	123-114	115
S040049	SQXN15-60-5.5	7.5	5.5	380T	2	10-20	64-52	70
S040050	SQXN20-32-3	4.0	3.0	380T	2	12.5-25	38-21	55
S040051	SQXN20-40-4	5.5	4.0	380T	2	12.5-25	46-29	62
S040052	SQXN20-80-7.5	10	7.5	380T	2	12.5-25	86-69	89
S040053	SQXN20-100-9.2	12.5	9.2	380T	2	12.5-25	106-89	113
S040054	SQXN25-35-4	5.5	4	380T	2.5	18-30	40-24	60
S040055	SQXN25-50-5.5	7.5	5.5	380T	2.5	18-30	55-39	75
S040056	SQXN40-60/2-13	17.5	13	380T	3	30-45	68-48	135
S040057	SQXN40-100/3-18.5	25	18.5	380T	3	30-45	108-88	176
S040058	SQXN60-60/2-18.5	25	18.5	380T	4	50-65	68-52	175
S040059	SQXN60-90/3-25	33	25	380T	4	50-65	98-82	218



Series SVS(F) - Stainless Steel Submersible Pumps

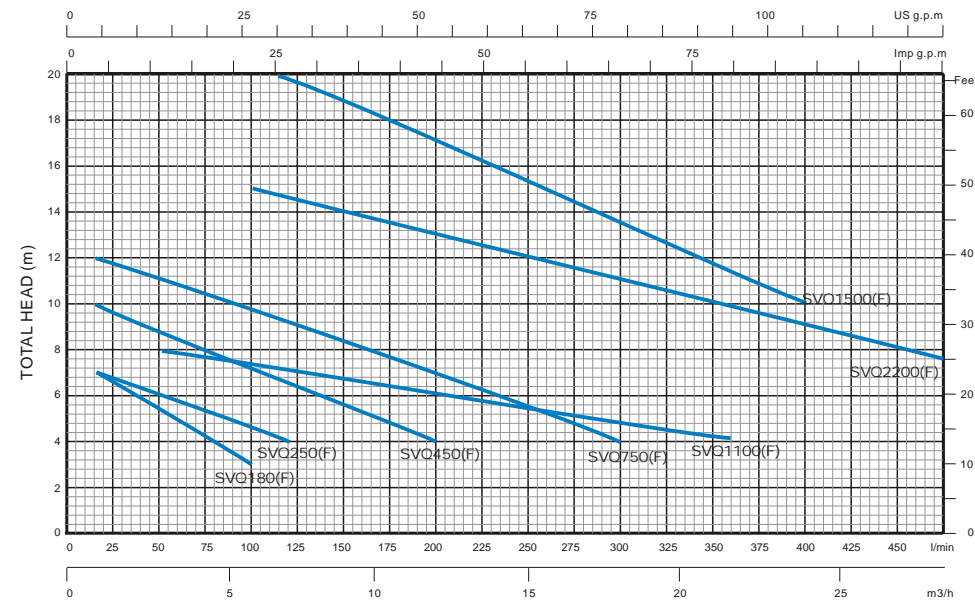
Code	Pompa Pump Pompe	HP HP CV	KW KW KW	Motore Motor Moteur	Mandata Delivery	Prestazioni Performance Performances Q (l/min)	H (m)	Peso Weight (kg)
S040060	SVS180(F)	0.25	0.18	230M	1	15-85	9.5-4	8
S040061	SVS370(F)	0.50	0.37	230M	1	15-240	9-5.5	16
S040062	SVS750(F)	1.00	0.75	230M	1	15-300	12-5	18



Series SVN(F) - Full Stainless Steel Drainage Submersible Pump

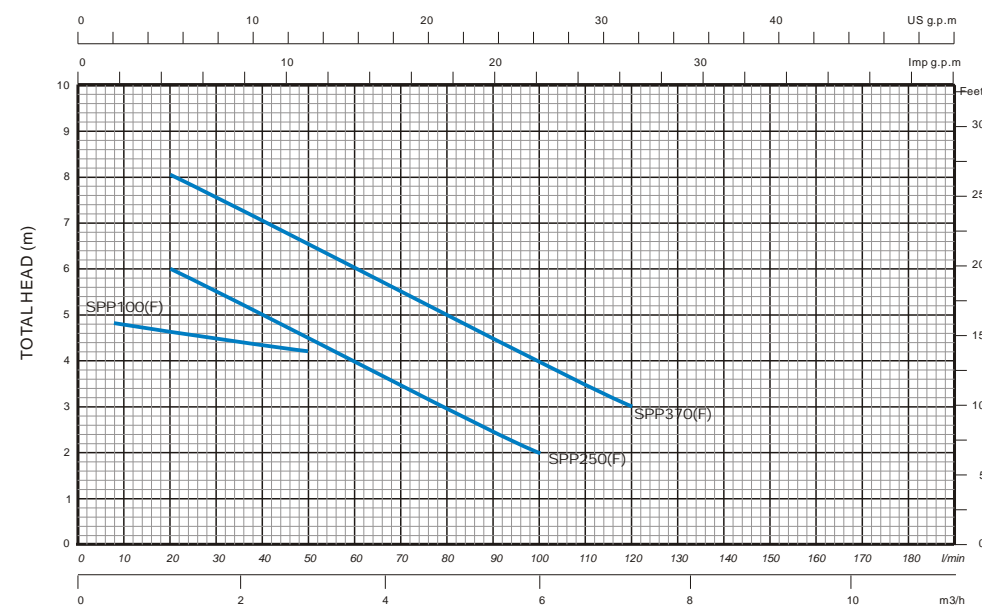
Code	Pompa Pump Pompe	HP HP CV	KW KW KW	Motore Motor Moteur	Mandata Delivery	Prestazioni Performance Performances Q (l/min)	H (m)	Peso Weight (kg)
S040073	SVN250(F)	0.35	0.25	230M	1.5	15-150	8-3	10
S040074	SVN450(F)	0.55	0.40	230M	1.5	15-200	10-4	15
S040075	SVN750(F)	1.00	0.75	230M	2	30-300	11-4	20
S040076	SVN1500(F)	2.00	1.50	230M	2	50-400	22-8	27





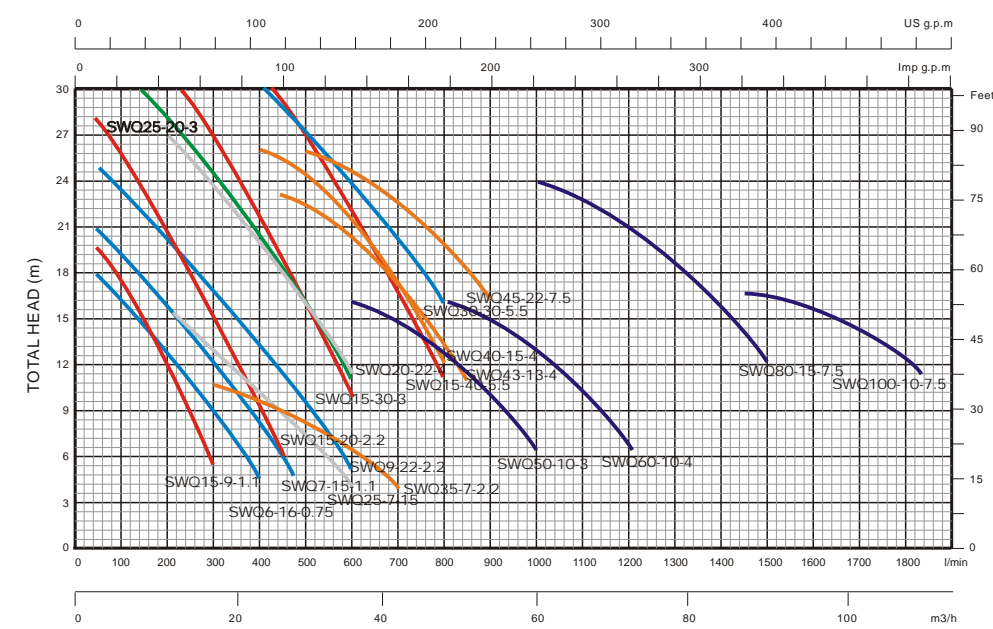
Series SVQ(F) - Stainless Steel Casing Sewage Pump

Code	Pompa Pump Pompe	HP HP CV	KW KW KW	Motore Motor Moteur	Mandata Delivery	Prestazioni Performance Performances Q (l/min)	Performance Performances H (m)	Peso Weight (kg)
S040066	SVQ180(F)	0.25	0.18	230M	1.5	15-100	7-3	8.5
S040067	SVQ250(F)	0.35	0.25	230M	1.5	15-120	7-4	9.5
S040068	SVQ450(F)	0.55	0.40	230M	2	15-200	10-4	18.5
S040069	SVQ750(F)	1.00	0.75	230M	2	15-300	12-4	19.5
S040070	SVQ1100(F)	1.50	1.10	230M	2	50-360	8-4	23.5
S040071	SVQ1500(F)	2.00	1.50	230M	1.5	50-400	22-10	26.5
S040072	SVQ2200(F)	3.00	2.20	230M	3	100-600	15-7	33.5



Series SPP(F) - Plastic Casing Drainage Submersible Pump

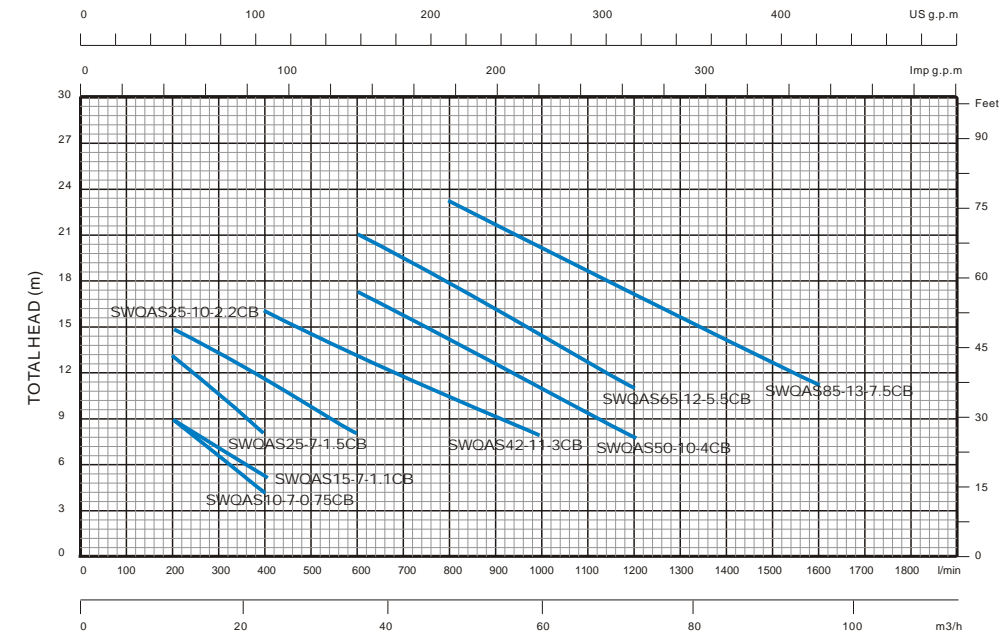
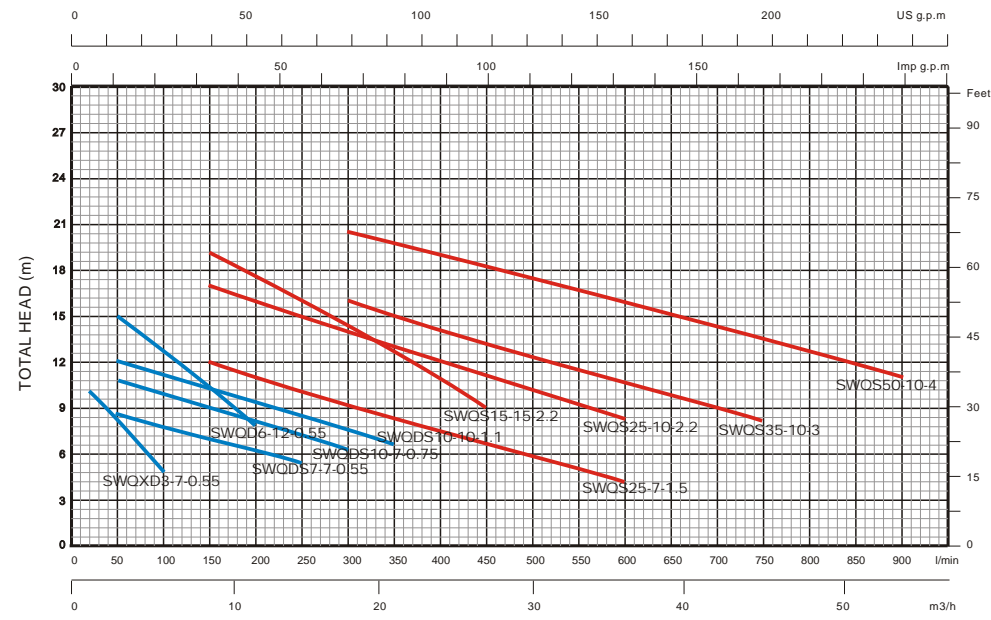
Code	Pompa Pump Pompe	HP HP CV	KW KW KW	Motore Motor Moteur	Mandata Delivery	Prestazioni Performance Performances Q (l/min)	Performance Performances H (m)	Peso Weight (kg)
S040063	SPP100(F)	0.15	0.10	230M	1	8-50	5.9-4.1	4
S040064	SPP250(F)	0.33	0.25	230M	1	20-100	6-2	3.7
S040065	SPP370(F)	0.50	0.37	230M	1	20-120	8-3	5.3



Series SWQ - Sewage Pump

Code	Pompa Pump Pompe	HP HP CV	KW KW KW	Motore Motor Moteur	Mandata Delivery	Prestazioni Performance Performances Q (l/min)	Performance Performances H (m)	Peso Weight (kg)	
S040082	SWQ6-16-0.75	1.00	0.75	380T	2	50-400	3.0-24	18-4.0	20
S040083	SWQ7-15-1.1	1.50	1.10	380T	2	50-450	3.0-27	21-4.0	29
S040084	SWQ9-22-2.2	3.00	2.20	380T	2	50-600	3.0-36	25-5.0	42
S040085	SWQ15-9-1.1	1.50	1.10	380T	2	50-300	3.0-18	20-5.0	29
S040086	SWQ15-20-2.2	3.00	2.20	380T	2.5	50-450	3.0-30	28-6.0	44
S040087	SWQ15-30-3	4.00	3.00	380T	2.5	50-600	3.0-36	42-10	48
S040088	SWQ15-40-5.5	7.50	5.50	380T	2.5	50-800	3.0-48	47-11	78
S040089	SWQ20-22-4	5.50	4.00	380T	3	100-600	6-36	32-10	64
S040090	SWQ25-7-1.5	2.00	1.50	380T	3	200-600	12-36	16-4	35
S040091	SWQ25-20-3	4.00	3.00	380T	3	200-600	12-36	27-11	49
S040092	SWQ30-30-5.5	7.50	5.50	380T	3	200-800	12-48	38-16	80
S040093	SWQ35-7-2.2	3.00	2.20	380T	3	300-700	18-42	10-4	45
S040094	SWQ40-15-4	5.50	4.00	380T	2	400-800	24-48	26-12	73
S040095	SWQ43-13-3	4.00	3.30	380T	3	450-850	27-51	23-11	61
S040096	SWQ45-22-7.5	10.0	7.50	380T	3	500-900	30-54	26-16	120
S040097	SWQ50-10-3	4.00	3.00	380T	4	600-1000	36-60	16-6.0	61
S040098	SWQ60-10-4	5.50	4.00	380T	4	800-1200	48-72	16-6.0	75
S040099	SWQ80-15-7.5	10.0	7.50	380T	5	1000-1500	60-90	24-12	130
S040100	SWQ100-10-7.5	10.0	7.50	380T	6	1500-1800	90-108	16-12	130

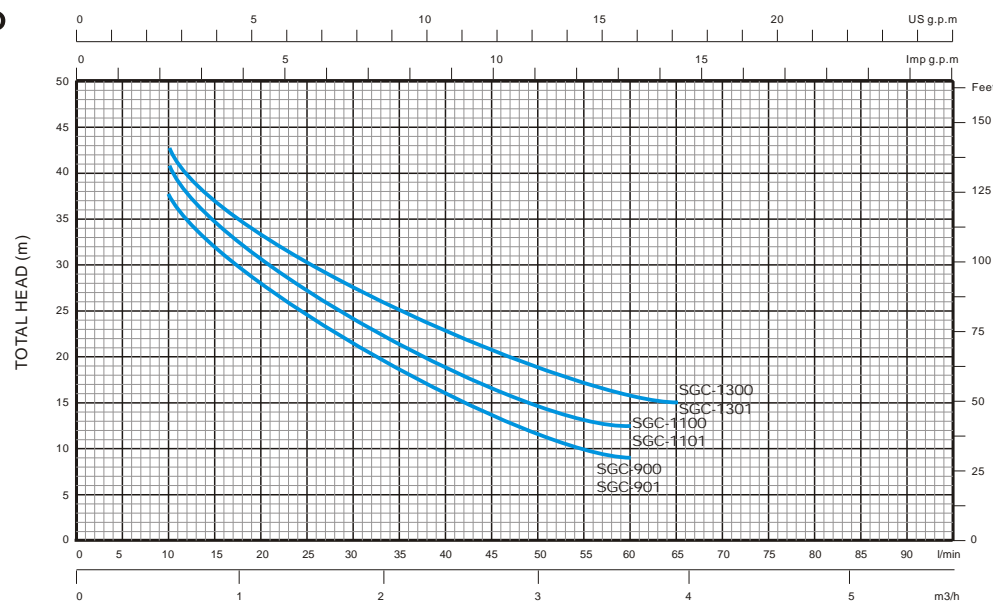




Series SWQ - Sewage Pump

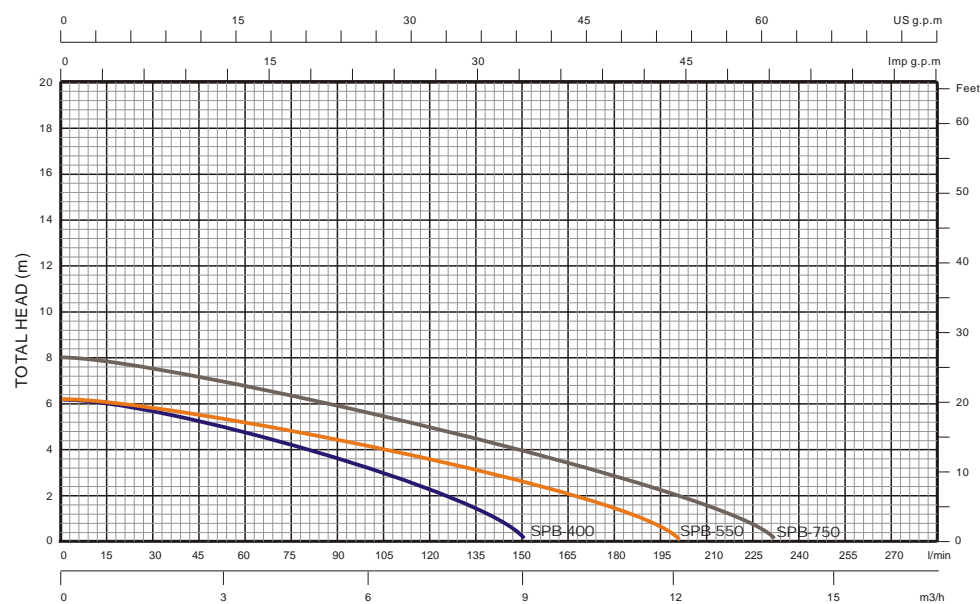
Code	Pompa Pump Pompe	HP HP CV	KW KW KW	Motore Motor Moteur	Mandata Delivery	Prestazioni Performance Performances			Peso Weight (kg)
						Q (l/min)	H (m)		
S040077	SWQXD3-7-0.55	0.75	0.55	230M	1.5	20-100	1.2-6.0	10-5	12
S040078	SWQD6-12-0.55	0.75	0.55	230M	2	50-200	3.0-12	15-8	19
S040079	SWQDS7-7-0.55	0.75	0.55	230M	2	50-250	3.0-15	8.4-5.4	23
S040080	SWQDS10-7-0.75	1.00	0.75	230M	2	50-300	3.0-18	10.8-6.0	25
S040081	SWQDS10-10-1.1	1.50	1.10	230M	2	50-350	3.0-21	12.0-6.6	27
S040101	SWQS15-15-2.2	3.00	2.20	380T	2	150-450	9-27	19-9	40
S040102	SWQS25-7-1.5	2.00	1.50	380T	3	150-600	9-36	12-4	39
S040103	SWQS25-10-2.2	3.00	2.20	380T	3	150-600	9-36	17-8	42
S040104	SWQS35-10-3	4.00	3.00	380T	4	300-750	18-42	16-8	53
S040105	SWQS50-10-4	5.50	4.00	380T	4	300-900	18-48	20-11	58
S040106	SWQAS10-7-0.75CB	1.00	0.75	380T	2	200-400	12-24	9-4	30
S040107	SWQAS15-7-1.1CB	1.50	1.10	380T	2	200-400	12-24	9-5	31
S040108	SWQAS25-7-1.5CB	2.00	1.50	380T	3	200-400	12-24	13-8	40
S040109	SWQAS25-10-2.2CB	3.00	2.20	380T	3	200-600	12-36	15-8	43
S040110	SWQAS42-11-3CB	4.00	3.00	380T	4	400-1000	24-60	16-8	68
S040111	SWQAS50-10-4CB	5.50	4.00	380T	4	600-1200	36-72	17-8	70
S040112	SWQAS65-12-5.5CB	7.50	5.50	380T	5	600-1200	36-72	21-10	106
S040113	SWQAS85-13-7.5CB	10.00	7.50	380T	5	800-1600	48-96	23-11	110

GARDEN PUMP



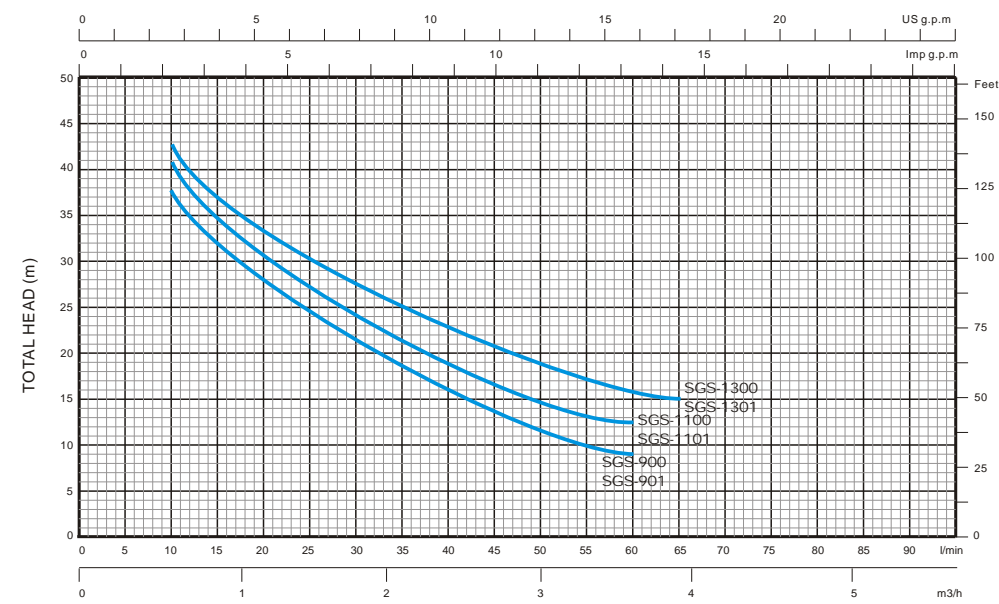
Series SGC - Plastic pump body Garden Jet Pump

Code	Pompa Pump Pompe	HP HP CV	KW KW KW	Motore Motor Moteur	Aspirazione Mandata Suction Delivery	Prestazioni Performance Performances	Peso Weight (kg)
						Q (l/min) H (m)	
S050001	SGC-900	1.20	0.90	230M	1 / 1	10-60 36-9	11
S050002	SGC-1100	1.50	1.10	230M	1 / 1	10-60 41-13	11.5
S050003	SGC-1300	1.75	1.30	230M	1 / 1	10-60 43-17	13.5
S050004	SGC-901	1.20	0.90	230M	1 / 1	10-60 36-9	11
S050005	SGC-1101	1.50	1.10	230M	1 / 1	10-60 41-13	11.5
S050006	SGC-1301	1.75	1.30	230M	1 / 1	10-60 43-17	13.5



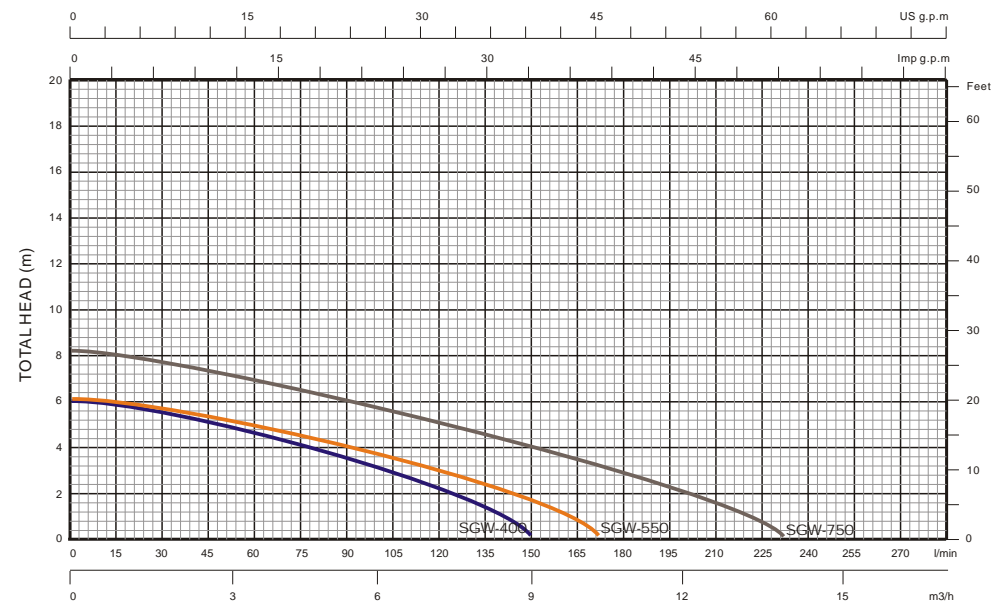
Series SPB - Garden Drainage Pump (for Sewage)

Code	Pompa Pump Pompe	HP HP CV	KW KW KW	Motore Motor Moteur	Aspirazione Mandata Suction Delivery	Prestazioni Performance Performances	Peso Weight (kg)
						Q (l/min) H (m)	
S050026	SPB-400	0.55	0.40	230M	1 / 1	40-100 6-4	5.1
S050027	SPB-500	0.70	0.50	230M	1 / 1	40-100 7-5	6.2
S050028	SPB-750	1.00	0.75	230M	1 / 1	40-120 8-6	6.5



Series SGS - S/S pump body Garden Jet Pump

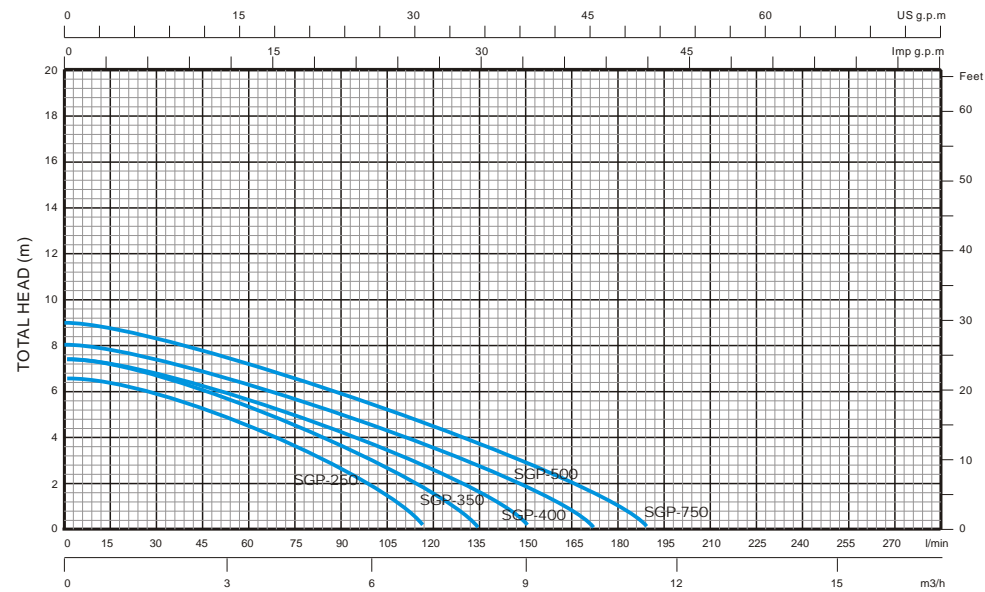
Code	Pompa Pump Pompe	HP HP CV	KW KW KW	Motore Motor Moteur	Aspirazione Mandata Suction Delivery	Prestazioni Performance Performances	Peso Weight (kg)
						Q (l/min) H (m)	
S050007	SGS-900	1.20	0.90	230M	1 / 1	10-60 36-9	11
S050008	SGS-1100	1.50	1.10	230M	1 / 1	10-60 41-13	11.5
S050009	SGS-1300	1.75	1.30	230M	1 / 1	10-60 43-17	13.5
S050010	SGS-901	1.20	0.90	230M	1 / 1	10-60 36-9	11
S050011	SGS-1101	1.50	1.10	230M	1 / 1	10-60 41-13	11.5
S050012	SGS-1301	1.75	1.30	230M	1 / 1	10-60 43-17	13.5



Series SGW - Garden Drainage Pump (for Sewage) S/S Version

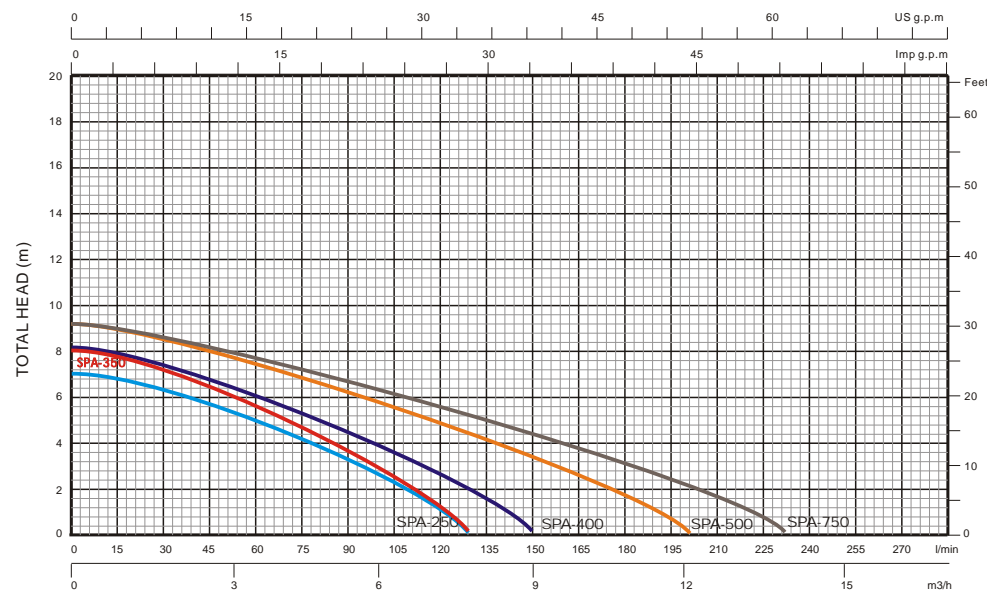
Code	Pompa Pump Pompe	HP HP CV	KW KW KW	Motore Motor Moteur	Aspirazione Mandata Suction Delivery	Prestazioni Performance Performances	Peso Weight (kg)
						Q (l/min) H (m)	
S050018	SGW-400	0.55	0.40	230M	1 / 1	20-100 6-4	7.0
S050019	SGW-550	0.75	0.55	230M	1 / 1	20-100 7-4	7.2
S050020	SGW-750	1.00	0.75	230M	1 / 1	40-120 8-5	7.4





Series SGP - Garden Drainage pump (for clean water)

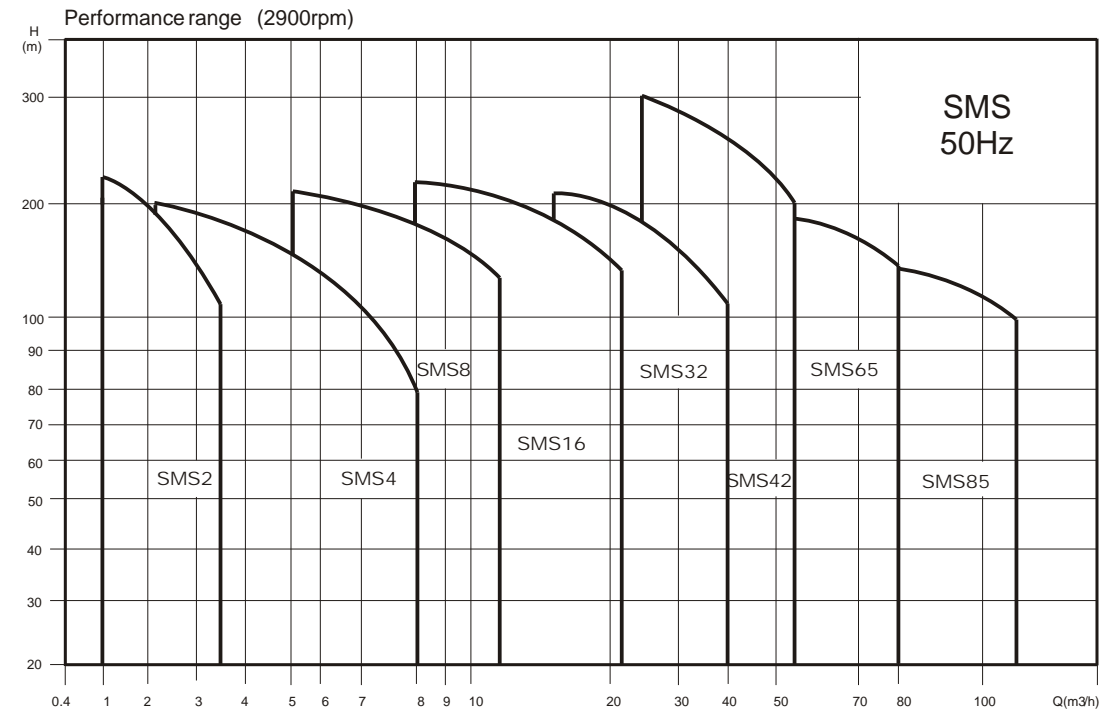
Code	Pompa Pump Pompe	HP HP CV	KW KW KW	Motore Motor Moteur	Aspirazione Mandata Suction Delivery	Prestazioni Performance Performances	Peso Weight (kg)	
					Q (l/min)	H (m)		
S050013	SGP-250	0.33	0.25	230M	1 / 1	20-80	6-3	5.1
S050014	SGP-350	0.50	0.35	230M	1 / 1	20-80	6-4	5.5
S050015	SGP-400	0.55	0.40	230M	1 / 1	40-100	6-4	5.7
S050016	SGP-500	0.70	0.50	230M	1 / 1	40-100	7-5	6.3
S050017	SGP-750	1.00	0.75	230M	1 / 1	40-120	8-5	6.4



Series SPA - Garden Drainage Pump (for clean water)

Code	Pompa Pump Pompe	HP HP CV	KW KW KW	Motore Motor Moteur	Aspirazione Mandata Suction Delivery	Prestazioni Performance Performances	Peso Weight (kg)	
					Q (l/min)	H (m)		
S050021	SPA-250	0.33	0.25	230M	1 / 1	20-80	7-4	4.65
S050022	SPA-350	0.50	0.35	230M	1 / 1	20-80	8-5	4.75
S050023	SPA-400	0.55	0.40	230M	1 / 1	40-100	7-4	4.75
S050024	SPA-500	0.70	0.50	230M	1 / 1	40-100	8-6	5.65
S050025	SPA-750	1.00	0.75	230M	1 / 1	40-120	9-6	6.2

SMS Series Vertical Multi-Stage Pump



Product range

Description	SMS2	SMS4	SMS8	SMS16	SMS32	SMS42	SMS65	SMS85
Rated flow (m3/h)	2	4	8	16	32	42	65	85
Rated flow (l/s)	0.56	1.1	2.2	4.4	8.9	11.7	18	24
Flow range (m3/h)	1-3.5	1.5-8	5-12	8-22	16-40	25-55	30-80	50-110
Flow range (l/s)	0.28-0.97	0.42-2.2	1.4-3.3	2.2-6.1	4.4-11.1	6.9-15.3	8.3-22.2	13.8-30.5
Max. Pressure (bar)	23	21	21	22	26	30	22	17
Motor power (KW)	0.37-3	0.37-4	0.75-7.5	2.2-15	1.5-30	3.0-45	4.0-45	5.5-45
Temperature range °C	-15 - +120							
Max. Efficiency (%)	46	59	64	70	76	78	80	81
Pipe connection								
DIN Flange	DN25	DN32	DN40	DN50	DN65	DN80	Dn100	Dn100
Cutting ferrule joint	●	●	●	●				
Pipe thread	●	●	●	●				

Application:

SMS Pump is a kind of multifunctional products. It can be used to convey various medium from tap water to industrial liquid at different temperature and with different flow rate and pressure. It could be meet the demand of Water supply; Industrial boosting; Industrial liquid conveying; Water treatment; Irrigation etc.,

Operation conditions:

Thin, clean, non-flammable and non-explosive liquid containing no solid granules and fibers.
Liquid temperature: Normal temperature type: -15C - +70C ; Hot water type: +70C - +120C
Ambient temperature : up to +40C
Altitude: Up to 1000m

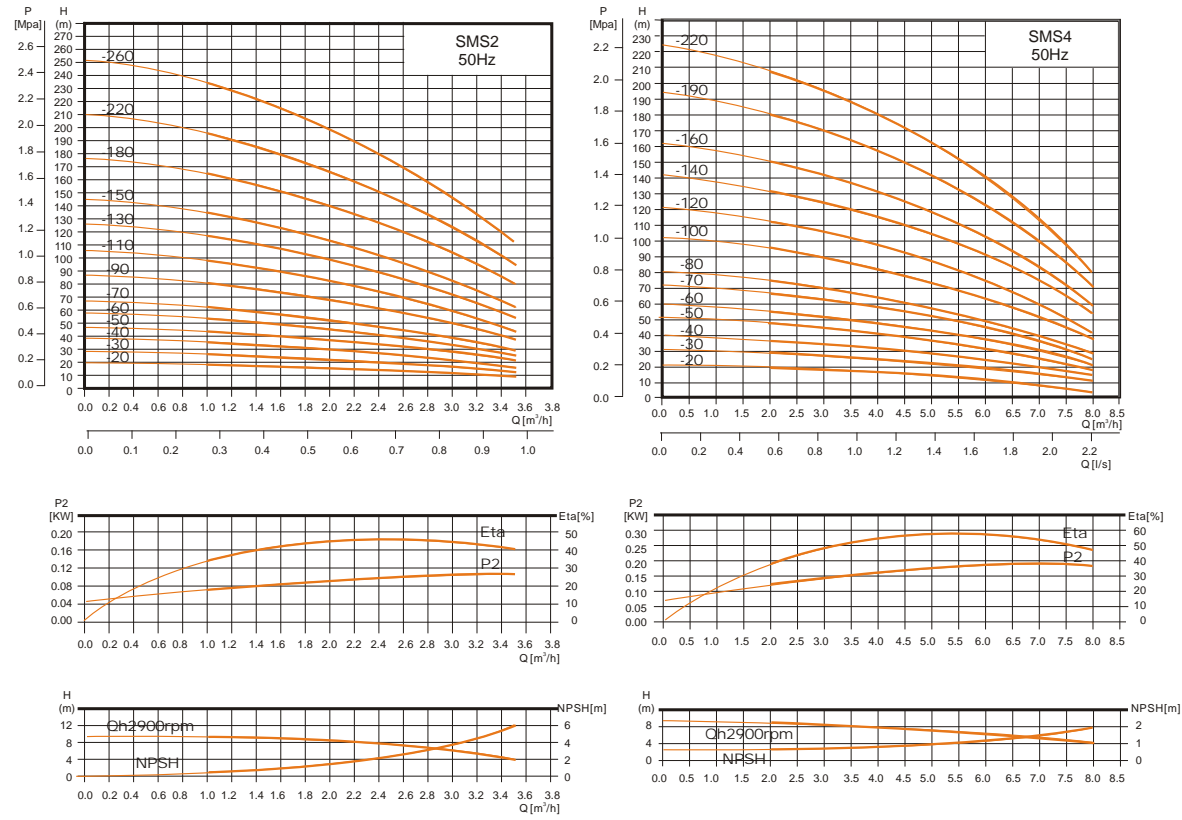
Pump:

This pump is a kind of vertical non-self priming multistage centrifugal pump, which is driven by a standard electric motor. The motor output shaft directly connects with the pump shaft through a coupling. The pressure-resistant cylinder and flow passage components are fixed between pump head and in-and outlet section with tie-bar bolts. The inlet and outlet are located at the pump bottom at the same plane. This pump can be equipped with an intelligent protector to effectively prevent it from dry-running, out-of-phase and overload.

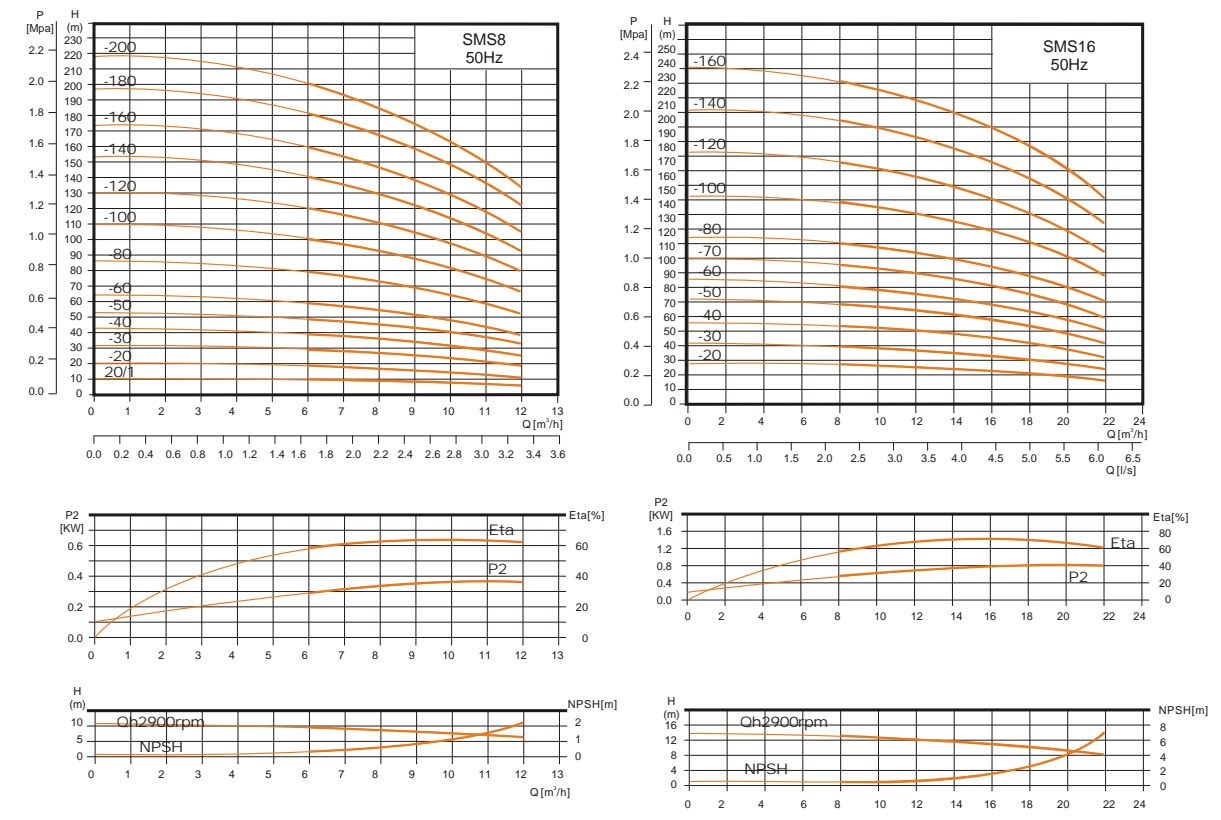
Electric motor:

Full enclosed fan cooled two pole standard IEC motor. Protection: Ip55, Class F insulation.
Standard 50HZ; 1X 220-230/240V, 3X 220-240/380-415V; 3X 380-415V; Other voltages available on request.

Performance curve: 3x380-415V 2900rpm 50HZ



Performance curve: 3x380-415V 2900rpm 50Hz



Performance table

Model	Motor power	Q (m³/h)	1	1.2	1.6	2	2.4	2.8	3.2	3.5	Weight (kgs)
SMS2-20	0,37		18	17	16	15	13	12	10	8	20
SMS2-30	0,37		27	26	24	22	20	18	15	12	20
SMS2-40	0,55		36	35	33	30	26	24	20	16	20
SMS2-50	0,55		45	43	40	37	33	30	24	20	20
SMS2-60	0,75		53	52	50	45	40	36	30	24	25
SMS2-70	0,75	H	63	61	57	52	47	41	35	28	25
SMS2-90	1,1	(m)	80	78	73	67	61	54	45	37	30
SMS2-110	1,1		98	95	89	82	73	64	54	44	30
SMS2-130	1,5		116	114	106	98	89	78	65	52	35
SMS2-150	1,5		134	130	123	112	100	90	73	60	35
SMS2-180	2,2		161	157	148	136	121	108	91	76	40
SMS2-220	2,2		197	192	180	165	148	130	110	90	45
SMS2-260	3		232	228	214	198	179	158	130	110	50

Performance table

Model	Motor power	Q (m³/h)	1.5	2	3	4	5	6	7	8	Weight (kgs)
SMS4-20	0,37		19	18	17	15	13	10	8	6	20
SMS4-30	0,55		28	27	26	24	20	18	13	10	20
SMS4-40	0,75		38	36	34	32	27	24	19	13	20
SMS4-50	1,1		47	45	43	40	34	31	23	17	25
SMS4-60	1,1		56	54	52	48	41	37	28	20	25
SMS4-70	1,5	H	66	63	61	56	48	43	33	24	30
SMS4-80	1,5		74	72	70	64	55	50	38	27	30
SMS4-100	2,2		96	90	87	81	71	62	48	34	30
SMS4-120	2,2		114	108	104	95	85	75	58	41	35
SMS4-140	3		136	126	122	122	101	89	68	48	35
SMS4-160	3		152	144	140	129	115	101	78	55	40
SMS4-190	4		183	171	168	153	137	122	93	67	45
SMS4-220	4		211	200	192	178	160	138	108	79	50

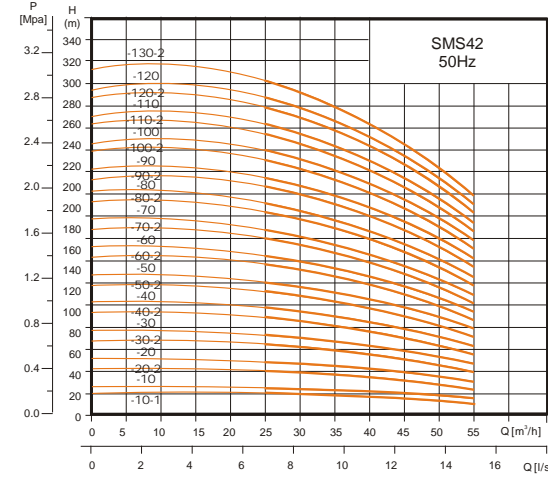
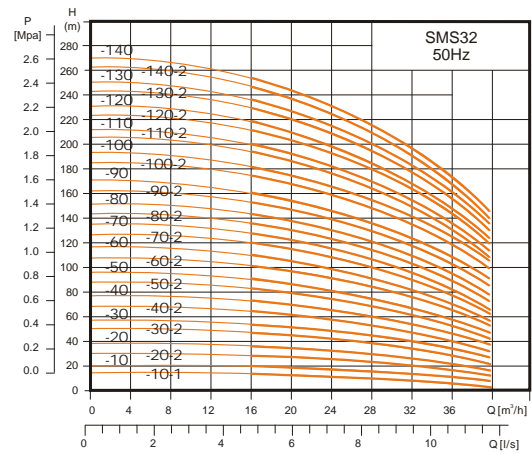
Performance table

Model	Motor power	Q (m³/h)	5	6	7	8	9	10	11	12	Weight (kgs)
SMS8-20/1	0,75		10	9,5	9,3	9	8,5	8	7	6	25
SMS8-20	0,75		20	19,5	19	18	17	16	14	13	25
SMS8-30	1,1		30	29,5	28,5	27	25	24	21	19	30
SMS8-40	1,5		41	39,5	38	36	34	32	28	26	30
SMS8-50	2,2		52	50	48	45	40	40	36	32	40
SMS8-60	2,2	H	62	60	57	54	51	48	43	39	40
SMS8-80	3		83	80	77	73	69	65	58	52	45
SMS8-100	4		104	100	97	92	87	81	73	65	55
SMS8-120	4		124	120	116	111	104	92	87	78	55
SMS8-140	5,5		145	141	136	130	122	113	102	92	80
SMS8-160	5,5		166	161	156	148	139	130	118	106	80
SMS8-180	7,5		187	182	175	167	157	146	134	120	90
SMS8-200	7,5		208	202	195	186	175	163	150	135	90

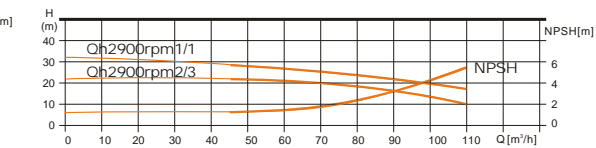
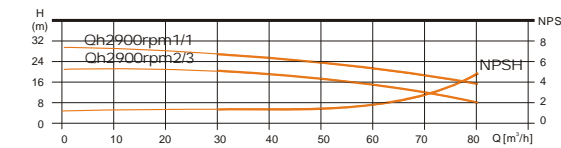
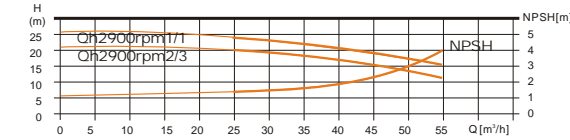
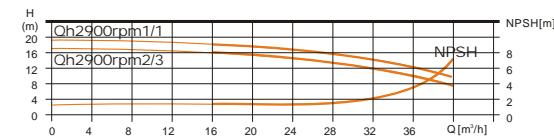
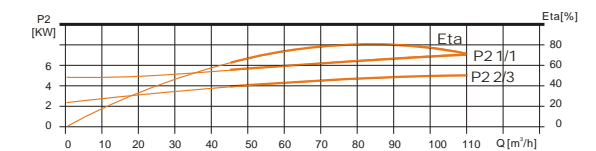
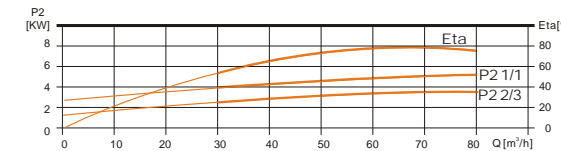
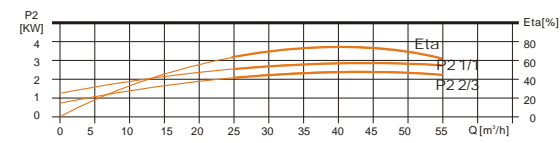
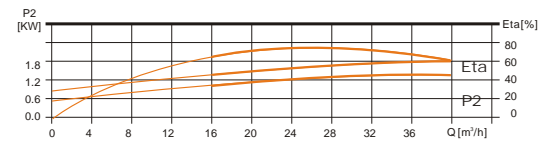
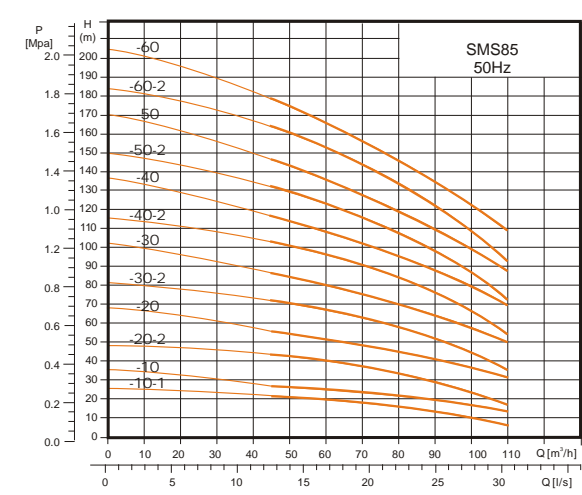
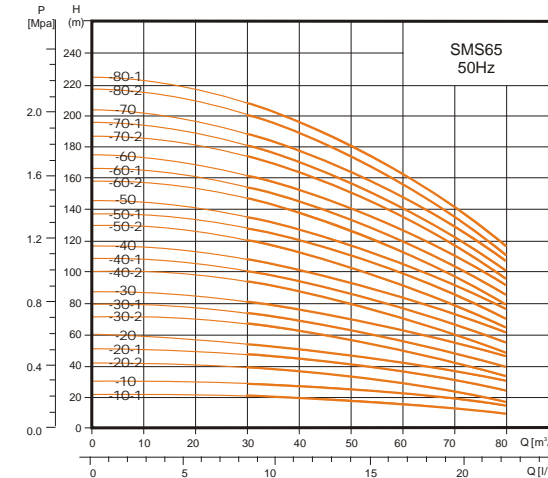
Performance table

Model	Motor power	Q (m³/h)	8	10	12	14	16	18	20	22	Weight (kgs)
SMS16-20	2,2		27	26	25	24	22	21	19	16	40
SMS16-30	3		41	40	38	37	34	32	26	25	50
SMS16-40	4		54	53	52	49	46	43	38	34	55
SMS16-50	5,5		68	67	65	62	58	54	48	43	70
SMS16-60	5,5		82	80	78	74	70	64	58	52	75
SMS16-70	7,5	H	96	95	91	87	82	76	68	61	80
SMS16-80	7,5		110	108	104	99	94	86	77	70	80
SMS16-100	11		138	136	131	125	118	109	97	87	140
SMS16-120	11		166	162	157	150	141	130	116	105	145
SMS16-140	15		194	190	184	175	166	152	136	122	160
SMS16-160	15		222	217	210	200	189	174	156	140	165

Performance curve: 3x380-415V 2900rpm 50Hz



Performance curve: 3x380-415V 2900rpm 50Hz



Performance table

Model	Motor power	Q (m³/h)	16	20	24	28	32	36	40	Weight (kgs)
SMS32-10-1	1,5		14	13	12	11	9	7	4	68
SMS32-10	2,2		18	17	15	14	13	11	8	71
SMS32-20-2	3		29	28	26	23	20	16	11	78
SMS32-20	4		36	34	32	29	27	23	18	84
SMS32-30-2	5,5		47	44	41	38	33	28	21	93
SMS32-30	5,5	H	54	51	48	44	40	35	27	93
SMS32-40-2	7,5	(m)	65	62	58	53	46	40	30	102
SMS32-40	7,5		72	69	65	59	53	47	37	102
SMS32-50-2	11		83	79	74	68	60	52	41	172
SMS32-50	11		90	86	81	74	67	59	47	172
SMS32-60-2	11		101	97	90	83	74	65	51	176
SMS32-60	11		108	104	97	90	81	72	57	176
SMS32-70-2	15		119	114	107	98	88	78	60	188
SMS32-70	15		126	121	113	105	95	85	67	188
SMS32-80-2	15		136	131	123	114	102	90	71	192
SMS32-80	15		144	138	130	120	109	97	77	192
SMS32-90-2	18,5		154	148	140	129	117	102	82	218
SMS32-90	18,5		162	156	147	136	124	109	88	218
SMS32-100-2	18,5		175	166	157	146	131	115	91	222
SMS32-100	18,5		182	173	164	152	138	122	98	222
SMS32-110-2	22		193	184	173	164	146	128	102	259
SMS32-110	22		200	191	180	168	153	135	109	259
SMS32-120-2	22		211	201	189	178	160	140	113	263
SMS32-120	22		218	208	196	184	167	147	120	263
SMS32-130-2	30		230	218	206	193	174	153	124	327
SMS32-130	30		237	225	213	200	181	160	131	327
SMS32-140-2	30		247	235	222	210	189	165	135	331
SMS32-140	30		255	242	229	216	196	172	142	331

Performance table

Model	Motor power	Q (m³/h)	25	30	35	40	42	45	50	55	Weight (kgs)
SMS42-10-1	3		20	19	18	17	16	15	13	11	86
SMS42-10	4		24	23	22	21	20	19	18	16	92
SMS42-20-2	5,5		40	38	36	33	32	30	27	23	102
SMS42-20	7,5		48	46	44	42	41	39	35	31	107
SMS42-30-2	11		63	61	58	54	52	50	44	38	175
SMS42-30	11	H	71	69	66	63	61	58	53	47	175
SMS42-40-2	15	(m)	87	84	80	75	73	69	62	54	187
SMS42-40	15		95	92	88	84	81	78	71	62	187
SMS42-50-2	18,5		111	107	102	96	93	88	80	69	208
SMS42-50	18,5		119	115	110	105	101	97	88	78	208
SMS42-60-2	22		135	130	124	117	113	108	97	85	251
SMS42-60	22		143	138	132	125	122	116	106	93	251
SMS42-70-2	30		158	152	146	138	134	127	115	100	315
SMS42-70	30		166	161	154	146	142	135	124	109	315
SMS42-80-2	30		182	175	168	159	154	146	133	116	319
SMS42-80	30		190	184	176	167	162	154	141	124	319
SMS42-90-2	30		205	198	190	180	174	166	150	132	323
SMS42-90	37		214	207	198	188	183	174	159	140	343
SMS42-100-2	37		230	221	212	200	194	185	168	147	347
SMS42-100	37		238	230	220	209	203	193	177	155	347
SMS42-110-2	45		255	246	236	223	217	206	188	165	413
SMS42-110	45		263	255	244	232	225	214	196	173	413
SMS42-120-2	45		280	270	259	245	238	226	206	181	417
SMS42-120	45		289	280	268	255	247	236	216	190	417
SMS42-130-2	45		305	294	282	267	259	247	225	198	421

Performance table

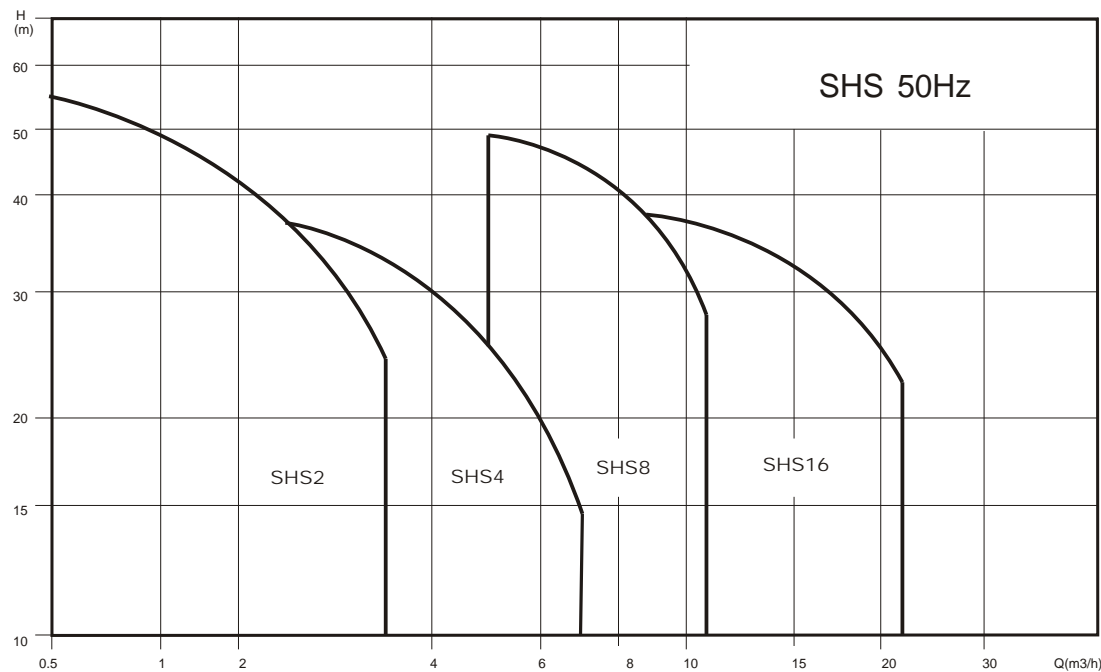
Model	Motor power	Q (m³/h)	30	40	50	60	65	70	80	Weight (kgs)
SMS65-10-1	4		19	18	16	14	13	11	8	105
SMS65-10	5,5		27	25	23	21	20	18	15	110
SMS65-20-2	7,5		39	36	33	29	26	23	17	120
SMS65-20-1	11		46	44	40	36	33	30	24	155
SMS65-20	11		53	51	47	43	40	37	30	155
SMS65-30-2	15		66	62	56	50	46	41	32	195
SMS65-30-1	15		73	69	63	57	53	48	39	195
SMS65-30	18,5	H	80	76	70	64	60	55	46	205
SMS65-40-2	18,5	(m)	92	87	80	71	66	60	47	208
SMS65-40-1	22		100	94	87	78	73	67	54	260
SMS65-40	22		107	101	94	85	80	74	61	260
SMS65-50-2	30		121	114	105	95	88	80	64	345
SMS65-50-1	30		128	121	112	102	95	87	71	345
SMS65-50	30		136	129	119	109	102	94	78	345
SMS65-60-2	30		150	142	131	118	110	101	81	350
SMS65-60-1	37		157	149	138	125	117	108	88	370
SMS65-60	37		164	156	145	132	124	115	95	370
SMS65-70-2	37		179	169	156	141	132	121	99	375
SMS65-70-1	37		186	176	163	148	139	128	106	375
SMS65-70	45		193	183	170	155	146	135	112	435
SMS65-80-2	45		207	196	182	164	154	142	116	440
SMS65-80-1	45		215	203	189	171	161	149	123	440

Performance table

Model	Motor power	Q (m³/h)	50	60	70	80	85	90	100	110	Weight (kgs)
SMS85-10-1	5,5		22	19	17	16	14	13	10	6	120
SMS85-10	7,5		25	24	22	21	20	19	16	12	122
SMS85-20-2	11		41	39	36	32	30	28	22	15	165
SMS85-20	15		53	50	47	44	41	40	36	30	198
SMS85-30-2	18,5		68	65	60	55	52	49	41	32	212
SMS85-30	22	H	81	77	72	67	64	62	55	48	265
SMS85-40-2	30	(m)	98	93	87	80	75	72	62	50	348
SMS85-40	30		110	105	100	92	86	84	76	66	348
SMS85-5-2	37		126	120	113	104	98	93	81	68	375
SMS85-50	37		139	131	124	115	110	106	94	83	375
SMS85-60-2	45		155	148	139	129	122	117	102	86	438
SMS85-60	45		168	160	150	141	134	130	117	103	438

SHS Series Horizontal Multi-Stage Pump

Performance range (2900rpm)



Application:

SMS Pump is a kind of multifunctional products. It can be used to convey various medium from tap water to industrial liquid at different temperature and with different flow rate and pressure. It could be meet the demand of Air-conditioning system; Cooling system; Industrial cleaning; Water treatment (Water purification); Aquaculture; Fertilizing / metering system; Environmental application etc.,

Applicable medium:

Thin and clean non-flammable and non-explosive liquid without solid granules and fibers. Mineral water, soft water, pure water, edible vegetable oil and other light chemical mediums. When the density or viscosity of liquid is larger than that of water, it is necessary to select a driving motor of high-power. Whether a specific liquid is suitable for the pump depends on many factors, among which the most important ones are chlorine content, PH value, Temperature, Solvent and oil content.

Operation conditions:

Liquid temperature: Normal temperature type: -15C - +70C; Hot watertype: +70C - +110C
Ambient temperature : up to + 40 C
Max. Operation pressure : 10 bar
Max. Inlet pressure is limited by Max. Operation Pressure
Altitude: Up to 1000m

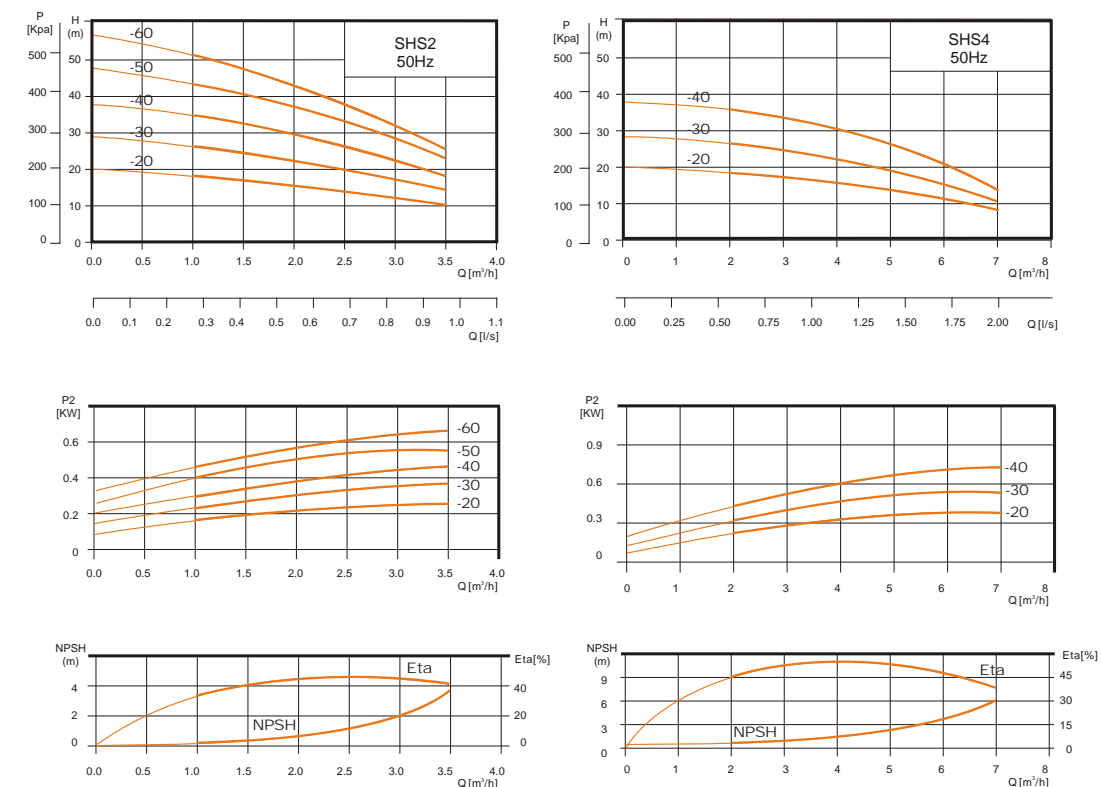
Pump:

This pump is a kind of Horizontal non-self priming multistage centrifugal pump, which with long shaft electric motor. Compact structure renders small size of pump; axial inlet and radial outlet

Electric motor:

Full enclosed fan cooled two pole motor. Protection: Ip55, Class F insulation.
Standard 50HZ; 1X 220-230/240V, 3X220-240/380-415V; 3X380-415V; Other voltages available on request.

Performance curve: 3x380-415V 2900rpm 50Hz



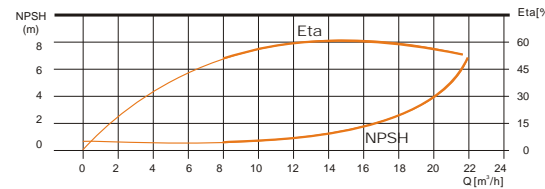
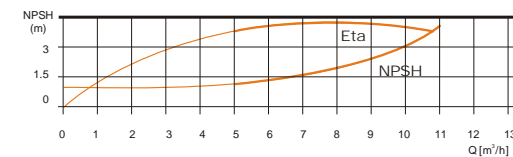
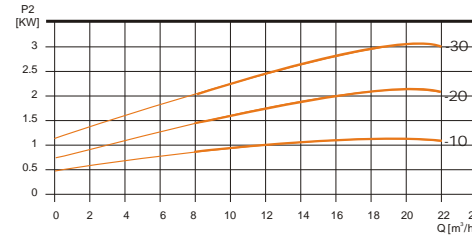
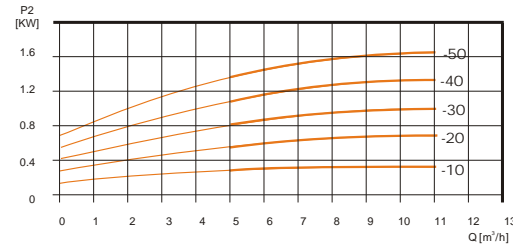
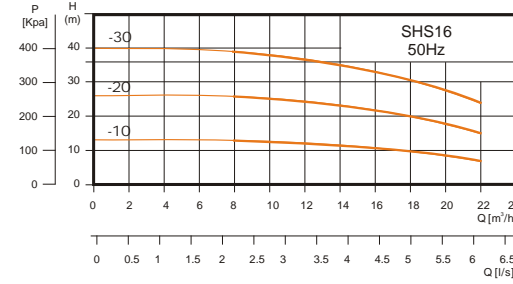
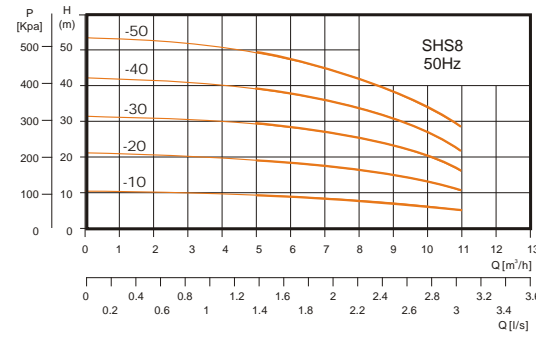
Performance table

Model	Motor power	Q (m3/h)	0.5	1	1.5	2	2.5	3	3.5	Weight (kgs)
SHS2-20	0,37	H (m)	19	18	16	14	13	11	9	10
SHS2-30	0,55		28	27	24	21	20	17	14	10
SHS2-40	0,55		36	34	32	28	26	23	17	10
SHS2-50	0,55		46	43	40	35	33	28	22	10
SHS2-60	0,75		54	50	48	42	38	33	25	10

Performance table

Model	Motor power	Q (m3/h)	1	2	3	4	5	6	7	Weight (kgs)
SHS4-20	0,55	H (m)	19	18	16	15	13	10	7	10
SHS4-30	0,75		28	27	24	22	19	15	10	10
SHS4-40	0,75		38	36	32	30	26	20	14	10

Performance curve: 3x380-415V 2900rpm 50Hz



Performance table

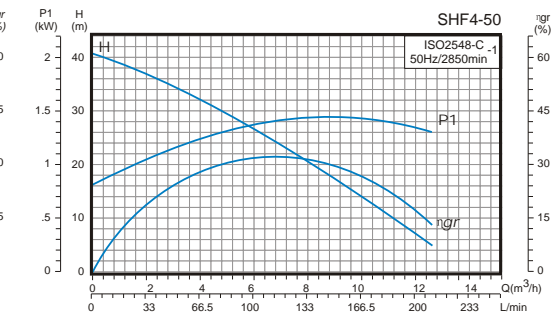
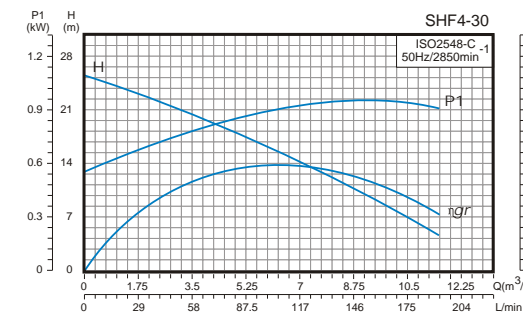
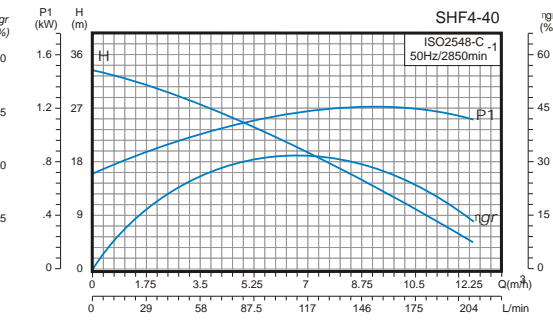
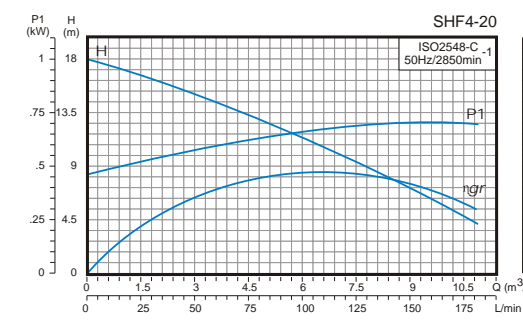
Model	Motor power	Q (m3/h)	5	6	7	8	9	10	11	Weight (kgs)
SHS8-10	0,75	H (m)	9,5	9,3	9	8,5	7,5	6,5	5,5	20
SHS8-20	0,75		19	18,5	18	17	15	13	11	20
SHS8-30	1,1		29	28	27	25,5	22,5	20	17,5	25
SHS8-40	1,5		39	38	36	34	30	26,5	22,5	25
SHS8-50	2,2		49	47	45	42,5	38	33,5	28	30

Performance table

Model	Motor power	Q (m3/h)	8	10	12	14	16	18	20	22	Weight (kgs)
SHS16-10	1,1	H (m)	12,5	12	11,5	10,5	10	9	7,5	6,5	20
SHS16-20	2,2		25,5	24	23	22	21	19	17	14,5	25
SHS16-30	3		38,5	37	36	34	32	30	27	23	30

SHF/SHFX
Series Water centrifugal pumps

PERFORMANCE CHART



APPLICATIONS

Water pumping in the civil, industrial and agricultural sectors,
Circulation of hot and cold water for heating and conditioning systems
Warm water, circulation and pressure boosting
Water supply to fire fighting systems
Irrigation systems for agriculture and sporting facilities

OPERATING LIMITS

Fluid temperature up to +60°C
Maximum ambient temperature +40°C
Maximum Altitude + 1000m

PRODUCTION STANDARD

IEC 60034-1 IEC 335-1
IEC 34-1 ISO 2548-C

PUMP MATERIALS

- Pump body: AISI304
- Impeller: AISI304
- Motor shaft: 45#/AISI420/ AISI304
- Mechanical seal: NBR/Ceramic/Graphite

ELECTRIC MOTOR

- 2-pole induction motor, 50Hz or 60Hz
- Insulation class: B or F
- Protection: IP44
- Continuous duty: S1

SPECIAL FEATURES ON REQUEST

- Stainless steel AISI316 shaft
- FPM/PPR/ISIC/WC mechanical seal
- Other voltage and frequency are available on request
- Internal thermal protector



SHF4-20



SHF4-30



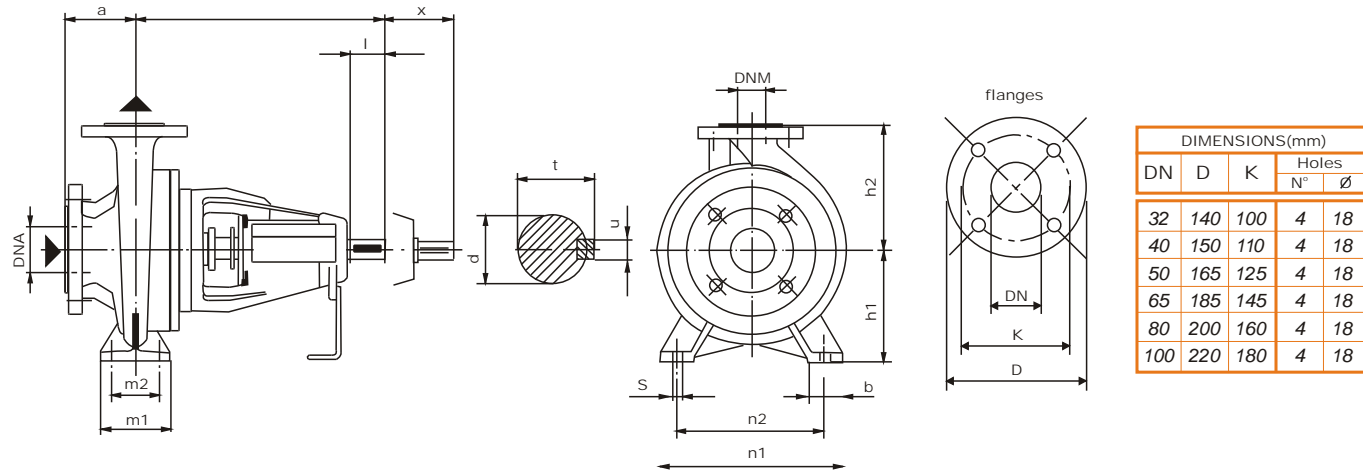
SHF4-40



SHF4-50

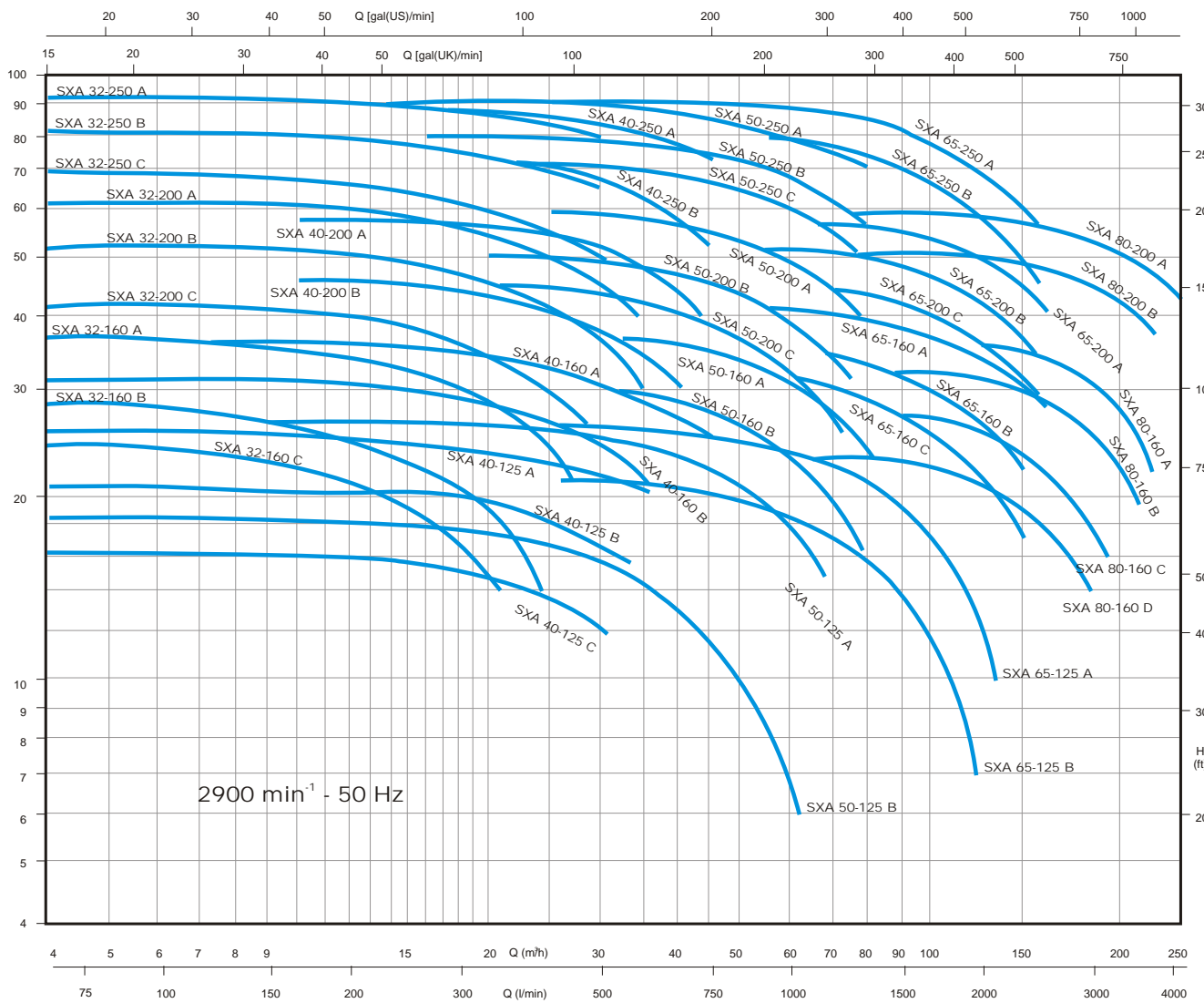
PERFORMANCE DATA

TYPE	Power		μF	Ampere 220V-1 50Hz	Q.Max (L/min)	H.Max (M)	S.Head (M)	DNA (Inch)	DNM (Inch)	N.W (kg)	PACKAGE DIMENSION L×W×H (mm)		
	HP	KW									L	W	H
SHF4-20	0.75	0.55	16	3.2	185	18	8	1 1/4"	1"	11.5	345	180	215
SHF4-30	0.85	0.65	20	4.1	185	25.5	8	1 1/4"	1"	12	370	180	215
SHF4-40	1	0.75	20	4.1	90	35	8	1 1/4"	1"	12.5	395	180	215
SHF4-50	1.1	0.8	20	4.1	90	41	8	1 1/4"	1"	13	420	180	215

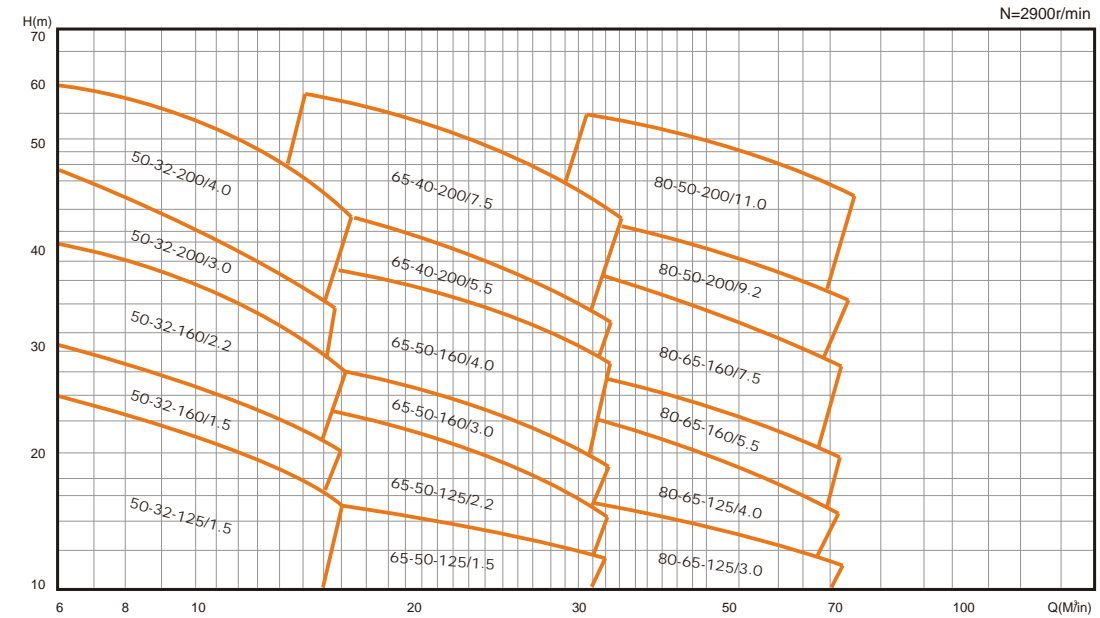


SXA series pump suitable for applications requiring high capacities with moderate flow; This pump is a single-stage, single-suction centrifugal pump in conformity with din24255 standard. This pump is used for pumping clean water or liquids which the characteristic of chemical and physical is similar to water. It is applicable for plants, mine, city water supply, air-dondition, firefighting system and irrigation.

The pump was driven by standard IEC motor through the flexible coupling directly. The suction and discharging flange and the pump body was casting all to whole together, which offer the lowest vibration during operation.



SGA series Stainless Steel stamping pump suitable for applications requiring high capacities with moderate flow; This pump is a single-stage, single-suction centrifugal pump in conformity with ISO2858-77 standard. Its main components are made with advanced technology and process, which could give high precision, smooth surface, high efficiency, low noise, little vibration and light weight. It is widely applied in petrochemicals, foodstuffs, drinkers, pharmaceuticals, electric power, textile, environmental protection, and water supply for high buildings ect.,



SGA

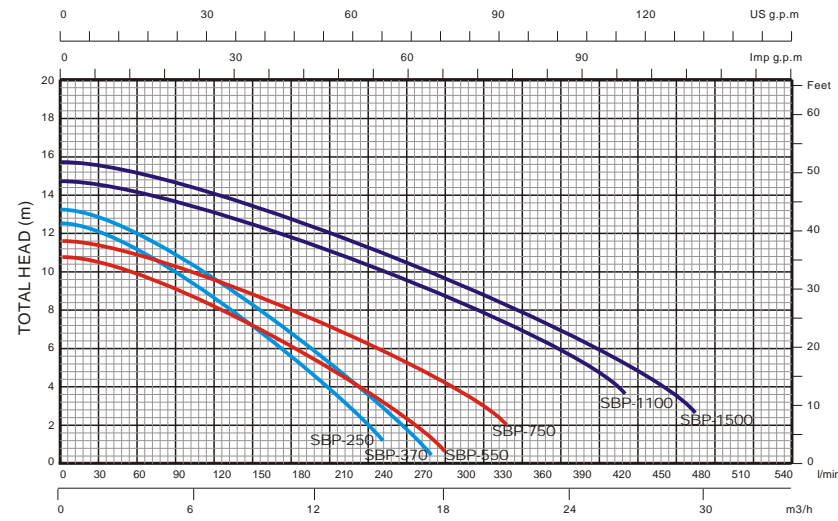
Series SGA

Code	Pompa Pump Pompe	HP HP CV	KW KW KW	Motore Motor Moteur	Mandata Delivery	Prestazioni Performance Performances Q (l/min)	H (m)	Peso Weight (kg)
S070201	SGA50-32-125	2.0	1.5	380T	2 / 1.25	50-300	22-16.2	22
S070202	SGA50-32-160A	2.0	1.5	380T	2 / 1.25	50-300	32.1-35	28
S070203	SGA50-32-160B	3	2.2	380T	2 / 1.25	50-300	26.5-24	31
S070204	SGA50-32-200A	4	3	380T	2 / 1.25	50-300	41.4-37	44.4
S070205	SGA50-32-200B	5.5	4	380T	2 / 1.25	50-300	52-46.8	48.4
S070206	SGA50-32-200C	7.5	5.5	380T	2 / 1.25	50-300	57.7-55	64.
S070207	SGA65-50-125A	2	1.5	380T	2.5 / 2	200-550	16-11	23.5
S070208	SGA65-50-125B	3	2.2	380T	2.5 / 2	200-600	21.8-17.3	26.5
S070209	SGA65-50-160A	4	3	380T	2.5 / 2	200-600	28.5-21.7	43.4
S070210	SGA65-50-106B	5.5	4	380T	2.5 / 2	200-600	36.2-29.5	44.5
S070211	SGA65-40-200A	7.5	5.5	380T	2.5 / 1.5	200-600	45.2-38.7	70
S070212	SGA65-40-200B	10	7.5	380T	2.5 / 1.5	200-600	54.8-48.2	70.6
S070213	SGA65-40-200C	12.5	9.2	380T	2.5 / 1.5	200-600	58.8-54	89.2
S070214	SGA80-65-125A	4	3	380T	3 / 2.5	400-1000	21.6-12.5	41
S070215	SGA80-65-125B	5.5	4	380T	3 / 2.5	400-1000	25.6-19	41.7
S070216	SGA80-65-160A	7.5	5.5	380T	3 / 2.5	400-1000	29.8-23	70.8
S070217	SGA80-65-160B	10	7.5	380T	3 / 2.5	400-1000	35.1-28.5	72
S070218	SGA80-50-200A	12.5	9.2	380T	3 / 2.5	400-1000	49.2-41	79
S070219	SGA80-50-200B	15	11	380T	3 / 2.5	400-1000	53.3-46.8	89
S070220	SGA80-50-200C	20	15	380T	3 / 2.5	400-1000	58.3-51.3	93

SPA & SWIMMING POOL PUMP



SBP series

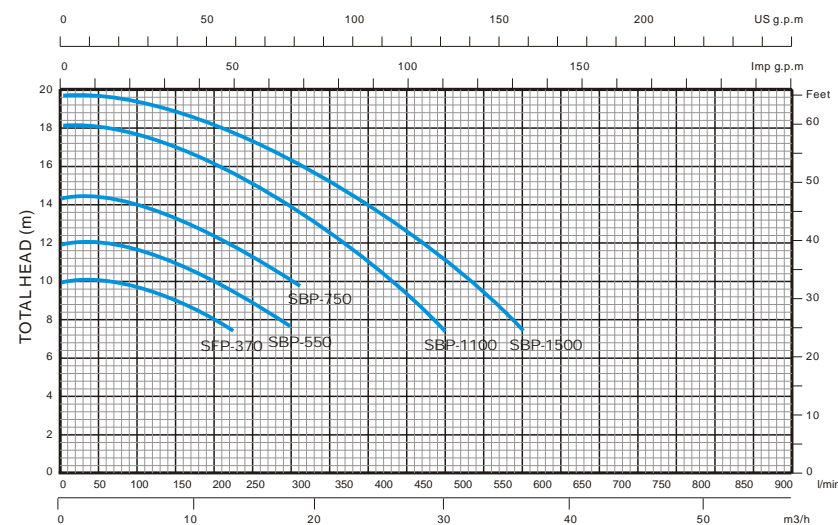


Series SBP Single Stage centrifugal pump for Bathtub whirlpool

Code	Pompa Pump Pompe	HP HP CV	KW KW KW	Motore Motor Moteur	Aspirazione Mandata Suction Delivery	Prestazioni Performance Performances	Peso Weight (kg)
						Q (l/min) H (m)	
S080001	SBP-250	0.33	0.25	230M	2.25/1.5	30-240 12-2	5.1
S080002	SBP-370	0.50	0.37	230M	2.25/1.5	30-270 13.5-2.5	5.5
S080003	SBP-550	0.75	0.55	230M	2.25/2.25	30-270 10.5-2.1	6.1
S080004	SBP-750	1.00	0.75	230M	2.25/2.25	30-300 11.2-4.0	6.4
S080005	SBP-1100	1.50	1.10	230M	2.25/2.25	30-400 14.5-5.0	8.3
S080006	SBP-1500	2.00	1.50	230M	2.25/2.25	30-500 15.5-3.0	9.4



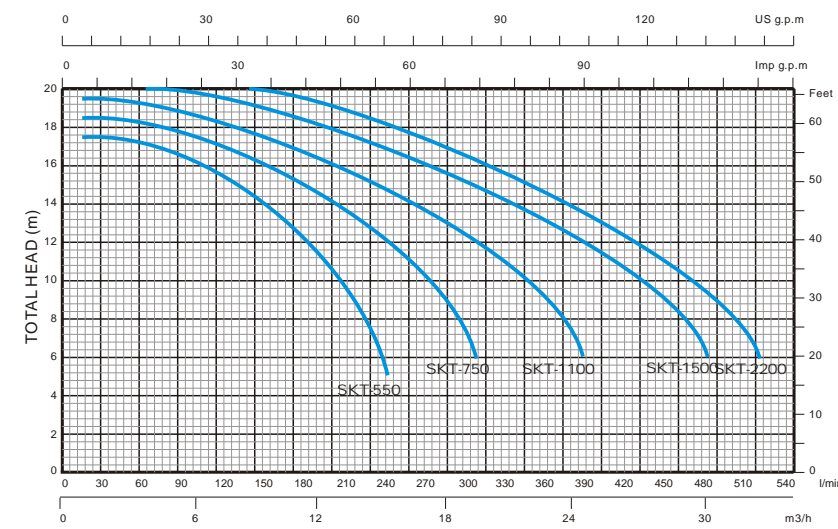
SFP series



Series SFP Single Stage centrifugal pump for Bathtub whirlpool

Code	Pompa Pump Pompe	HP HP CV	KW KW KW	Motore Motor Moteur	Aspirazione Mandata Suction Delivery	Prestazioni Performance Performances	Peso Weight (kg)
						Q (l/min) H (m)	
S080007	SFP-370	0.50	0.37	230M	2 / 2	50-200 10-8	9.4
S080008	SFP-550	0.75	0.55	230M	2 / 2	50-300 12-7.5	10.7
S080009	SFP-750	1.00	0.75	230M	2 / 2	50-300 14-10	11.4
S080010	SFP-1100	1.50	1.10	230M	2.5/2.5	50-500 18-8	18.0
S080011	SFP-1500	2.00	1.50	230M	2.5/2.5	50-600 19-8	21.0

All range Swimming pool pumps are designed for heavy duty application with a high performance, low maintenance and low-noise. Carbon Graphite Mechanical seal with Stainless steel shaft; Motor are fully enclosed IP55 CLASS F insulation. The pump body are made by corrosion-proof fiberglass polypropylene ensured for long duration.

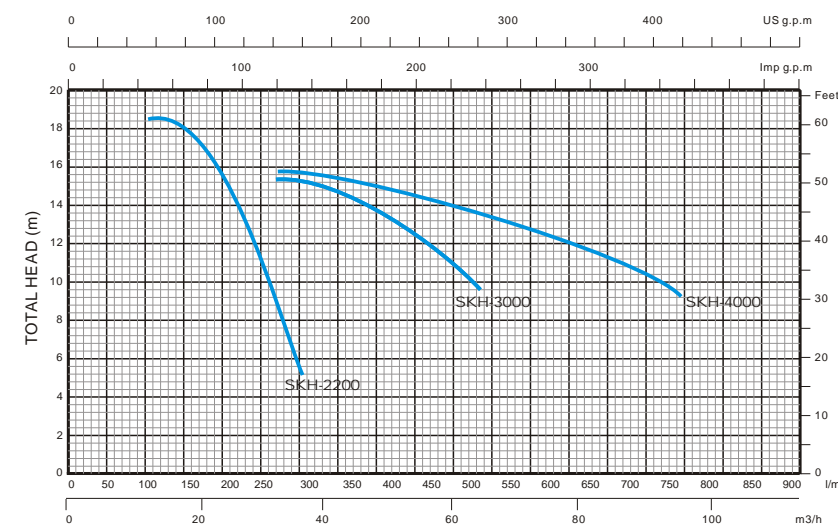


Series SKT

Code	Pompa Pump Pompe	HP HP CV	KW KW KW	Motore Motor Moteur	Aspirazione Mandata Suction Delivery	Prestazioni Performance Performances	Peso Weight (kg)
						Q (l/min) H (m)	
S080012	SKT-550	0.75	0.55	230M	2 / 2	100-200 17-5	600
S080013	SKT-750	1.00	0.75	230M	2 / 2	100-300 18-6	600
S080014	SKT-1100	1.50	1.00	230M	2 / 2	100-400 19-6	750
S080015	SKT-1500	2.00	1.50	230M	2 / 2	100-500 21-6	900
S080016	SKT-2200	3.00	2.20	230M/380T	2 / 2	100-550 23-6	1000



SKT series



Series SKH

Code	Pompa Pump Pompe	HP HP CV	KW KW KW	Motore Motor Moteur	Aspirazione Mandata Suction Delivery	Prestazioni Performance Performances	Peso Weight (kg)
						Q (l/min) H (m)	
S080017	SKH-2200	3.00	2.20	380T	2.5 / 3	100-300 18-3	1000
S080018	SKH-3000	4.00	3.00	380T	2.5 / 3	300-500 15-9	1200
S080019	SKH-4000	5.50	4.00	380T	2.5 / 3	300-800 15.6-9	1400

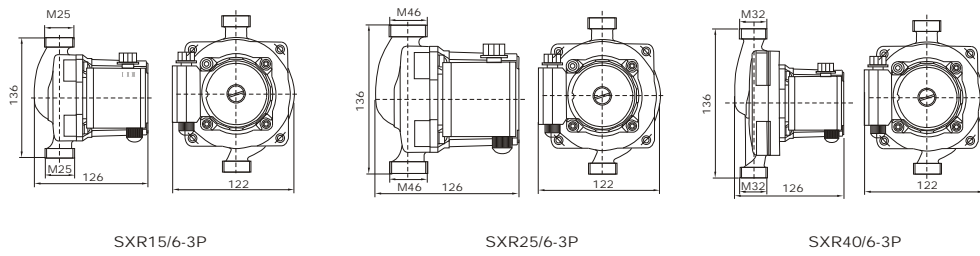


SKH series

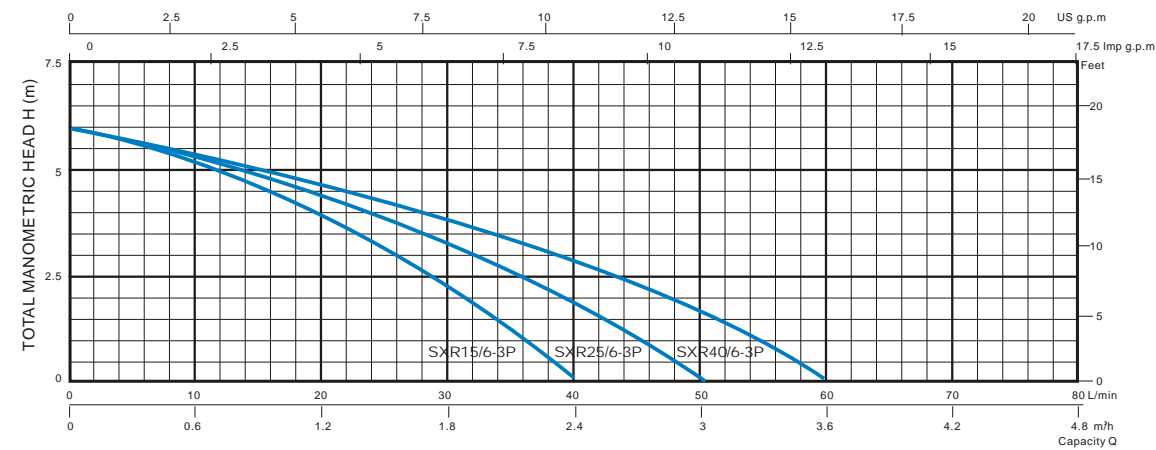
CIRCULATION PUMP

This pump is specially applicable for circulating hot water for heating system, industrial circulating system for hot water, air-conditioning cooling system. With different speed could offer different pressure with compact installation dimension.

INSTALLATION DIMENSIONS



PERFORMANCE CHART

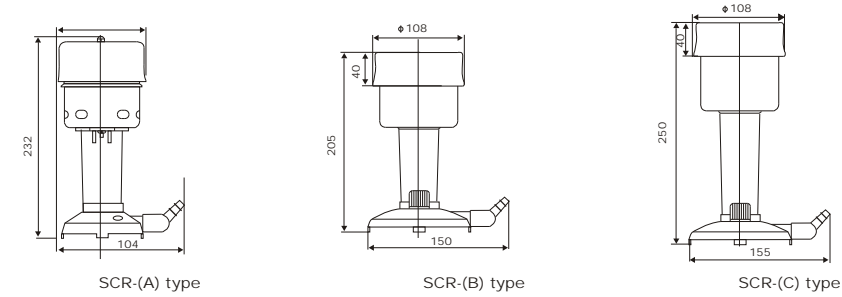


MODEL	POWER (w)	VOLTAGE (v)	FREQUENCY (Hz)	INPUT&OUTLETD (mm)	SPEED (r/min)	HIGHEST HEAD (m)	MAX.CAPACITY (L/min)	G.W. (Kg)	GTY (pcs)	PACKAGE DIMENSION L x W x H(cm)
SXR15/6-3P	93/67/46	220-240	50	15	2200/1900/1450	6/5/3	40/35/20	22.5	8	40 x 37 x 30.8
SXR25/6-3P	93/67/46	220-240	50	25	2200/1900/1450	6/5/3	50/40/25	23.2	8	40 x 37 x 30.8
SXR40/6-3P	93/67/46	220-240	50	40	2200/1900/1450	6/5/3	60/50/30	26.2	8	40 x 37 x 30.8

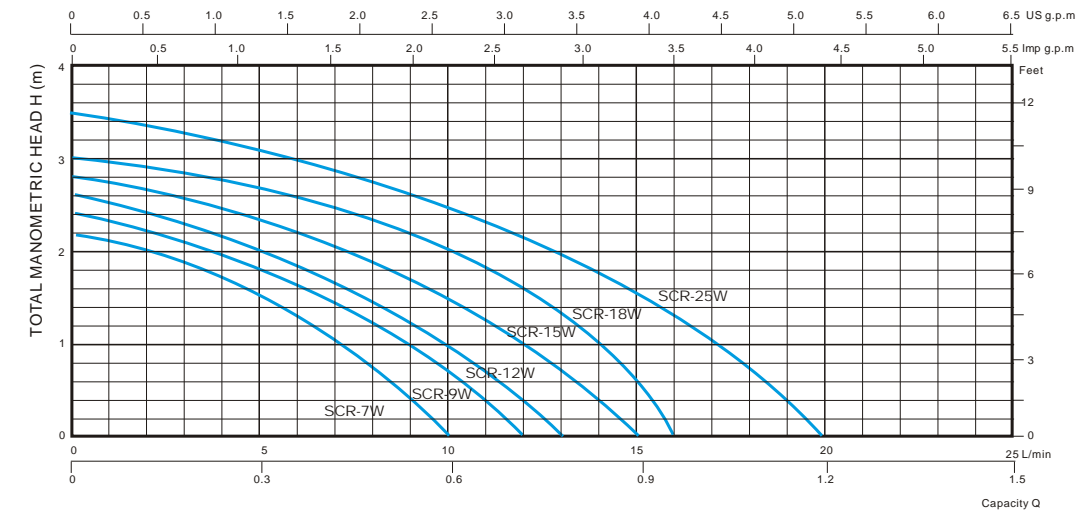
COOLANT PUMP

This pump is specially applicable for circulating water of desert cooler which is economic cooling system in desert area. These pumps have advantages of compact installation dimension, light weight, low noise, and maintenance free.

INSTALLATION DIMENSIONS



PERFORMANCE CHART



MODEL	POWER (w)	VOLTAGE (v)	FREQUENCY (Hz)	SPEED (r/min)	HIGHEST HEAD (m)	RATED HEAD (m)	MAX.CAPACITY (L/min)	RATED CAPACITY (L/min)	G.W. (Kg)	GTY (pcs)	PACKAGE DIMENSION L x W x H(cm)
SCR-7W	40	127/220	50/60	2450/3000	2.2	1	10	7	22	20	54 x 43.5 x 25
SCR-9W	50	127/220	50/60	2450/3000	2.4	1.5	12	8	23	20	54 x 43.5 x 25
SCR-12W	60	127/220	50/60	2450/3000	2.6	1.5	13	9	24	20	54 x 43.5 x 25
SCR-15W	70	127/220	50/60	2450/3000	2.8	1.5	15	10	25	20	54 x 43.5 x 25
SCR-18W	80	127/220	50/60	2450/3000	3.0	1.5	16	11	26	20	54 x 43.5 x 25
SCR-25W	100	127/220	50/60	2450/3000	3.5	1.5	20	15	28	20	54 x 43.5 x 25



SXR25/6-3P



SCR-(A)



SCR-(B)



SCR-(C)



4 inch Submersible oil-filled rewindable motor

The improved mechanical design combined with the most optimised efficiency in electromagnetic design assure reliability, durability and efficient operation in all duty conditions.

Motor Characteristics :

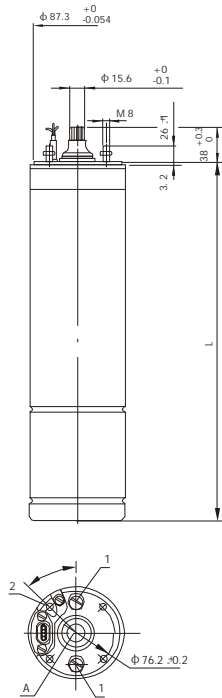
Conform to International Standard IEC60034-1. CE qualified
Motor casing, shaft, and lower bracket are made by S/S 304 Stainless Steel.
Copper Alloy or Nickel plated cast-iron upper bracket.
SKF (optional) high Thrusting bearing available.
Qualified Italian BT-Burgmann Mechanical Seal
Pressure adjusting diaphragm made by water-proof reformed butylrubber
Standard NEMA connection flange

characteristics, dimensions and weights (three phase motors)
caracteristiques, dimensions et poids (motrurs triphase)

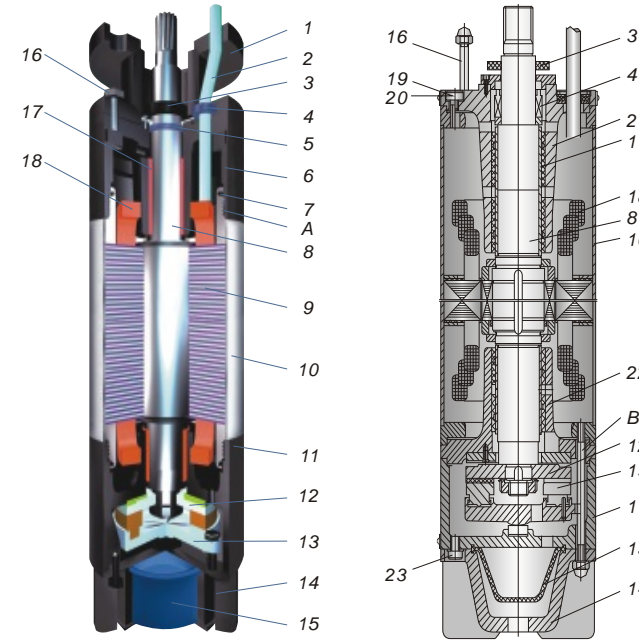
Type	HP	KW	A	η%	Cosφ	Rpm	L	Kg
S95-0,37	0,5	0,37	1,15	61	0,79	2780	335	7,6
S95-0,55	0,75	0,55	1,65	63	0,80	2780	365	8,5
S95-0,75	1,0	0,75	2,2	64	0,81	2800	385	9,6
S95-1,1	1,5	1,0	3,0	68	0,82	2810	410	11,2
S95-1,5	2,0	1,5	3,85	72	0,82	2820	445	12,8
S95-2,2	3,0	2,2	5,6	72	0,83	2820	505	15,6
S95-3,0	4,0	3,0	7,3	75	0,83	2820	565	16,8
S95-4,0	5,5	4,0	9,5	77	0,83	2820	630	21,0
S95-5,5	7,5	5,5	12,6	78	0,85	2820	750	27,0
S95-7,5	10	7,5	16,9	79	0,85	2820	885	32,8

characteristics, dimensions (single phase motors)
caracteristiques, dimensions (motrurs monophasés)

Type	HP	KW	A	η%	Cosφ	μFXVC	Rpm	L
S95C-370	0,5	0,37	3,6	53	0,88	15X450	2830	315
S95C-550	0,75	0,55	4,8	58	0,88	20X450	2830	335
S95C-750	1,0	0,75	6,3	60	0,90	25X450	2830	360
S95C-1100	1,5	1,1	8,6	64	0,90	35X450	2820	390
S95C-1500	2,0	1,5	10	72	0,94	45X450	2820	435
S95C-2200	3,0	2,2	14	74	0,96	50X450	2820	480



6 - 12 inch Submersible water-filled rewindable motor



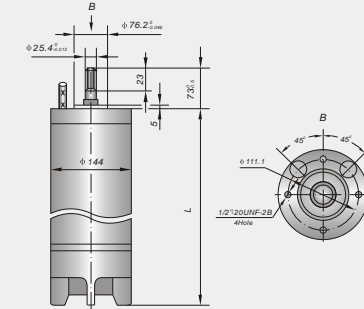
- A. Throat (Series HM)
- B. Bolt (Series HN)
- 1. Flange
- 2. Cable
- 3. Slinger
- 4. Seal
- 5. Oil seal
- 6. End bell upper
- 7. "O" ring
- 8. Rotor
- 9. Stator
- 10. Case
- 11. End bell, lower
- 12. Slide plate
- 13. Thrust bearing
- 14. Base
- 15. Regulating diaphragm
- 16. Bolt
- 17. Bearing sleeve
- 18. Winding wire
- 19. Water filling hole
- 20. Air release hole
- 21. Upper guide bearing
- 22. Lower guide bearing
- 23. Water drainage hole

TECHNICAL DATA OF SERIES HN AND SERIES HM IN 380V 50HZ

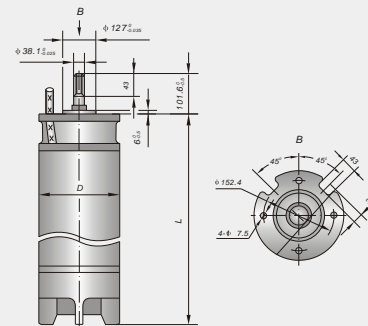
Type	Rated Power		Effic. (η %)	Power Factor (COSφ)	Rated Curr. (A)	R.P.M (R/min)	Start. Curr. Rated Curr.
	KkW	HP					
HN (HM) 6	3	4	74	0.79	7.8	2880	7
	4	5.5	76	0.80	10.0	2880	7
	5.5	7.5	77	0.80	13.6	2860	7
	7.5	10	78	0.81	18.0	2850	7
	9.2	12.5	78	0.82	21.9		7
	11	15	79	0.82	25.8		7
	15	20	79.5	0.82	35.0		7
	18.5	25	79.5	0.82	43.1		7
	22	30	79.5	0.82	51.3		7
	25	35	79.5	0.83	57.6		7
	30	40	80	0.83	68.6		7
	37	50	80	0.83	84.7		7
	45	60	80	0.83	103		6.5



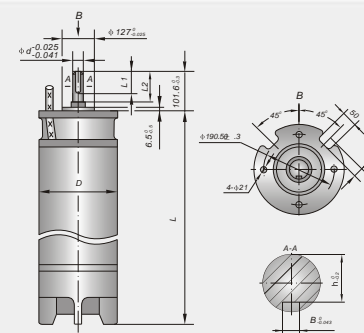
Outer Dimension



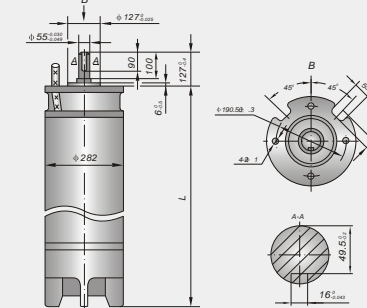
TYPE	HN/HM6-3~45kW
------	---------------



TYPE	HN/HM8-5.5~45kW	HN/HM8-55~110kW
D	φ 184mm	φ 192mm



TYPE	HN/HM10-30~75kW	HN/HM10-90~185kW
L1	62mm	80mm
L2	70mm	90mm
D	φ 228mm	φ 236mm
d	φ 38mm	φ 50mm
B	12mm	14mm
h	33mm	45mm



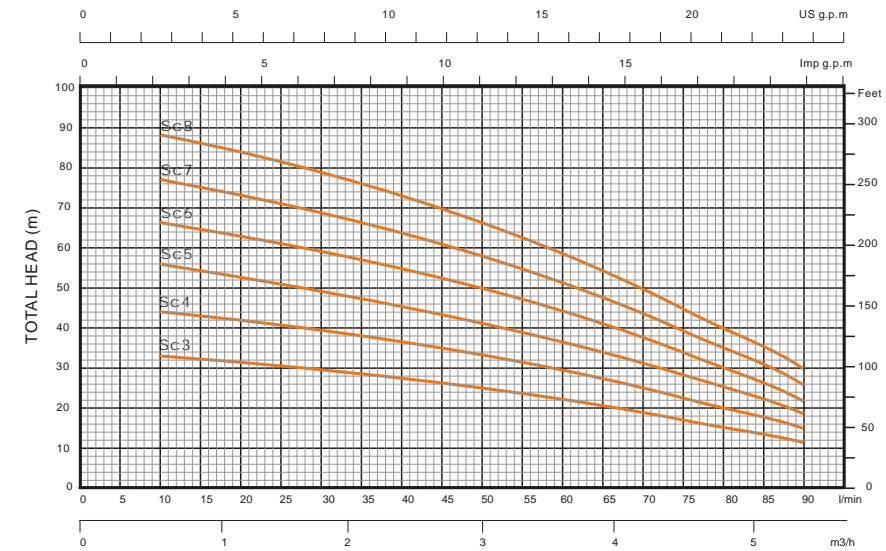
TYPE	HN12-75~250kW	HN12/4-30~150kW
------	---------------	-----------------



Type	Rated Power		Effic. (η%)	Power Factor (COSΦ)	Rated Curr. (A)	R.P.M (R/min)	Start. Curr. Rated Curr.
	kW	HP					
HN (HM) 8	5.5	7.5	78	0.81	13.2	2880	7
	7.5	10	78	0.81	18.0	2880	7
	9.2	12.5	79	0.82	21.6	2870	7
	11	15	80	0.82	25.5		7
	15	20	81	0.83	33.9		7
	18.5	25	81.5	0.83	41.6		7
	22	30	82	0.84	48.5		7
	25	35	83	0.84	54.5		7
	30	40	83	0.84	65.0		7
	37	50	84	0.84	80.0		7
	45	60	84.5	0.84	96.0		6.5
	55	75	84.5	0.84	118.0		6.5
	64	90	84.5	0.84	137.0		6.5
	75	100	84.5	0.84	161.0		6.5
90	125	85	0.84	192.0		6.5	
100	135	85	0.84	213.0		6.5	
110	150	85	0.84	234.0		6.5	
HN(HM)10	30	40	84	0.84	65		7
	37	50	85	0.85	78		7
	45	60	85.5	0.85	94		6.5
	55	75	86	0.85	114		6.5
	64	90	86	0.85	133		6.5
	75	100	86	0.86	154		6.5
	90	125	87	0.86	183		6.5
	100	135	87	0.86	203		6.5
	110	150	87	0.87	221		6.5
	132	180	87	0.87	265		6.5
	150	200	87	0.87	301		6.5
160	220	87	0.87	321		6.5	
185	250	87	0.87	371		6.5	
HN12	75	100	86	0.86	154		6.5
	90	125	86	0.86	185		6.5
	100	135	86	0.86	205		6.5
	120	160	87	0.86	244		6.5
	140	190	88	0.87	278		6.5
	160	220	88	0.87	318		6.5
	185	250	88	0.87	367		6.5
	200	270	88	0.87	397		6.5
HN12/4	220	300	88	0.87	437		6.5
	250	340	88	0.87	496		6.5
	30	40	82	0.78	71		7
	37	50	83	0.80	85		7
	45	60	83	0.80	103		6.5
	55	75	84	0.81	123		6.5
	64	90	84	0.81	143		6.5
	75	100	84	0.81	167		6.5
90	125	84	0.81	201		6.5	
100	135	85	0.82	218		6.5	
110	150	85	0.82	240		6.5	
132	180	86	0.83	281		6.5	
150	200	86	0.83	319		6.5	

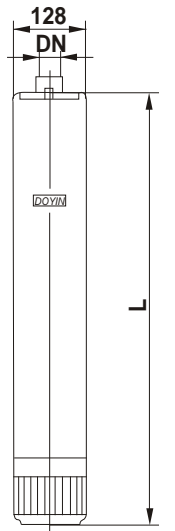
Products features:

Motor casing in S/S 304, and welded S/S & Carbon steel Shaft.
 High quality NSW PVC Winding wire, and for heat-resistant type, PE2+PA wire available.
 European thrusting bearing material ensure the stable & long-life performance.
 NEMA Standard connection dimension for 6-8" motor.
 Series HN model with Flange connection by Bolt & Nuts
 Series HM model with Flange connected by thread.



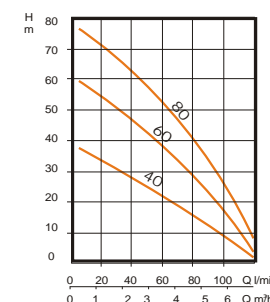
MODEL		P2		DELIVERY N ≈ 2850r/min												
1 ~ 220V/240V	3 ~ 380V/415V	KW	HP	Q m³/h	0	0,6	1,2	1,8	2,4	3	3,6	4,2	4,8	5,4		
				l/min	0	10	20	30	40	50	60	70	80	90		
SCM3(A)	SC 3	0,55	0,75	H (M)	34	33	31	29	27	25	22	18	15	11		
SCM4(A)	SC 4	0,75	1		46	44	42	39	37	33	29	25	20	15		
SCM5(A)	SC 5	0,92	1,25		57	55	52	49	46	41	36	31	25	19		
SCM6(A)	SC 6	1,1	1,5		69	66	63	59	55	50	44	37	30	22		
SCM7(A)	SC 7	1,3	1,75		80	77	73	69	64	58	51	43	35	26		
SCM8(A)	SC 8	1,5	2		91	88	83	79	73	66	58	49	40	30		

MODEL	DN	DIMENSIONS(mm)	
		L	
SC 3	1 1/4"	445	
SC 4	1 1/4"	485	
SC 5	1 1/4"	525	
SC 6	1 1/4"	565	
SC 7	1 1/4"	605	
SC 8	1 1/4"	645	



Multistage submersible pump

Singlephase MonofasJ 230V 50Hz	Threephase TriphasJ 400V 50Hz	HP	KW	Input KW		AMPERE		Capacitor Condensateur		Q.Capacity - Debit - Q.Portata						
				KW assorbJ	KW assorbiti	230V	400V	μF	V	1/10	25	50	68	85	97	105
				m³/h	l/min	1,5	3	4	5,1	5,8	6,3					
R128A 40	R128 40	0,8	0,6	1	1	4	1,7	20	450	40	32	24	16	9	4	
R128A 60	R128 60	1,2	0,9	1,4	1,4	6	2,3	25	450	60	50	40	30	20	10	2
R128A 80	R128 80	1,6	1,2	1,8	1,8	8	3	35	450	80	68	55	45	60	20	2



HP-KW-Motor rated output
 Input KW-Unit maximum
 power input

HP-KW-puissance nominale du
 motore.
 KW absorbe-Puissance
 maximum basobee par la pompe.

HP-KW-potenza nominale del
 motore
 KW assorbiti-Massima
 potenza assorbita della pompa.

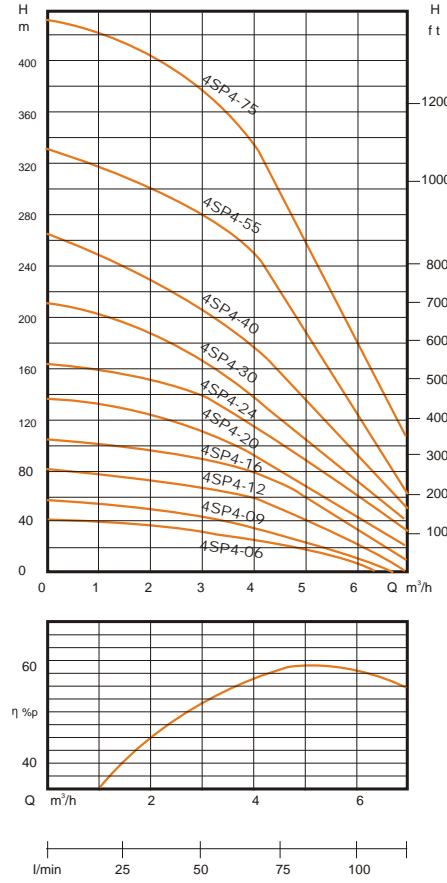
R128 40-60-80 Cable Length 20 mt.PVC
 R128 40-60-80 Longueur Cavo 20 mt.PVC
 R128 40-60-80 Longhezza Cavo 20 mt.PVC



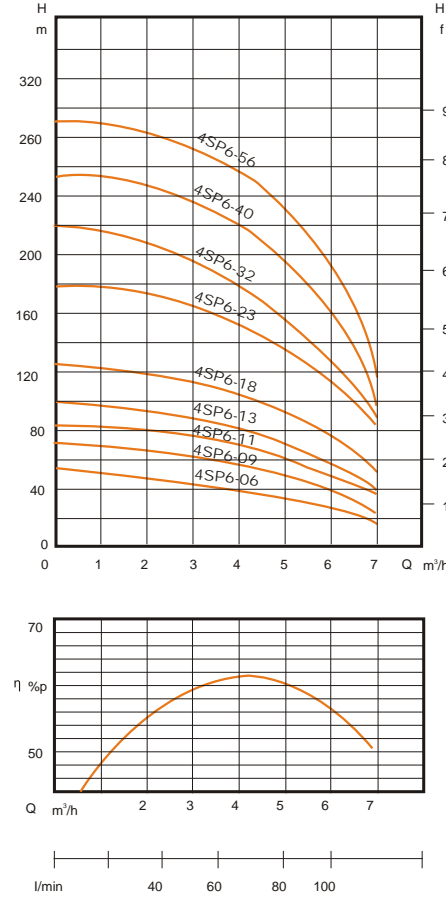
4SP Series
4" Submersible Pump



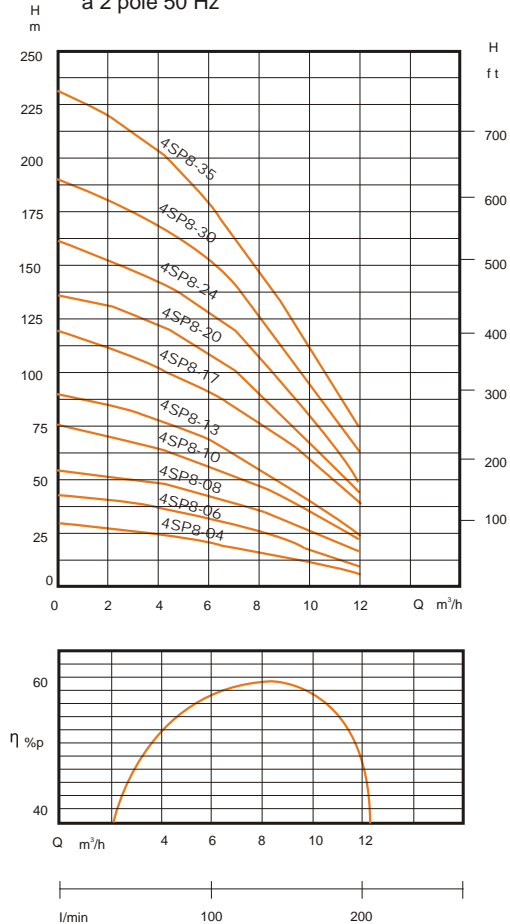
Characteristic of functioning at 2 poles 50 Hz
Caratteristiche di funzionamento a 2poli 50Hz
Caracteristiques de fonctionnement a 2 pole 50 Hz



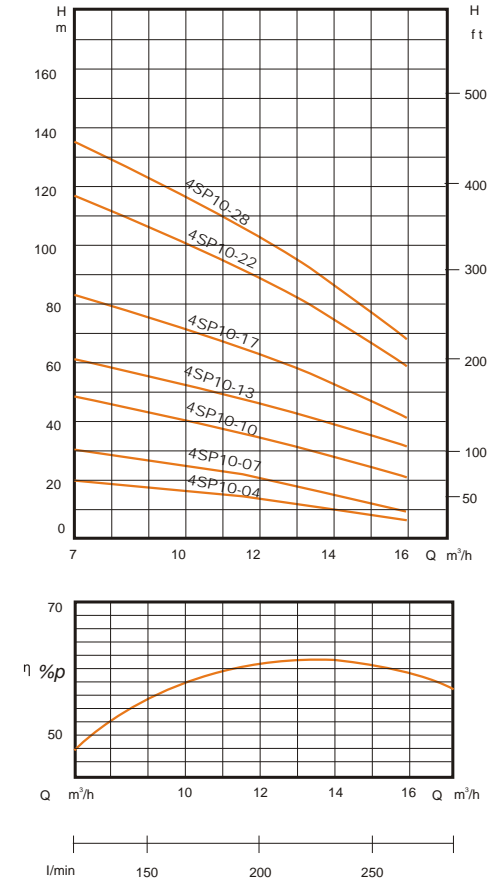
Characteristic of functioning at 2 poles 50 Hz
Caratteristiche di funzionamento a 2poli 50Hz
Caracteristiques de fonctionnement a 2 pole 50 Hz



Characteristic of functioning at 2 poles 50 Hz
Caratteristiche di funzionamento a 2poli 50Hz
Caracteristiques de fonctionnement a 2 pole 50 Hz



Characteristic of functioning at 2 poles 50 Hz
Caratteristiche di funzionamento a 2poli 50Hz
Caracteristiques de fonctionnement a 2 pole 50 Hz



4SP Series
4" Submersible Pump



TYPE	MOTOR	THREE-PHASE		SINGLE-PHASE		CAPACITY								OUTLET mm	
		380V		220V		m³/h									
		HP	KW	A	A	uF	VC	0	2	3	3,5	4	4,5		5
4SP4-06	0,75	0,55	2,0	4,8	20	450	46	39	33	32	30	26	22	16	40mm 1.5 G
4SP4-09	1	0,75	2,5	6,3	25	450	60	52	44	40	36	31	26	18	
4SP4-12	1,5	1,1	3,4	8,6	35	450	82	75	68	64	60	53	45	30	
4SP4-16	2	1,5	4,4	10	45	450	110	96	88	82	80	71	60	42	
4SP4-20	3	2,2	6,2	14	50	450	140	125	115	105	100	83	70	50	
4SP4-24	4	3	8,3	-	-	-	165	153	130	116	120	100	80	65	
4SP4-30	4	3	8,3	-	-	-	218	185	165	153	140	120	100	80	
4SP4-40	5,5	4	10,3	-	-	-	264	227	200	190	180	153	120	95	
4SP4-55	7,5	5,5	14	-	-	-	333	300	280	266	255	220	180	130	
4SP4-75	10	7,5	18,5	-	-	-	431	405	378	360	340	299	245	175	

TYPE	MOTOR	THREE-PHASE		SINGLE-PHASE		CAPACITY								OUTLET mm	
		380V		220V		m³/h									
		HP	KW	A	A	uF	VC	0	1	2	3	4	5		6
4SP6-06	1,1	0,75	2,5	4,8	25	450	53	50	47	42	37	32	27	16	40mm 1.5 G
4SP6-09	1,5	1,1	3,4	8,6	35	450	71	68	65	61	56	48	40	24	
4SP6-11	2	1,5	4,4	10	45	450	85	82	80	75	71	61	51	36	
4SP6-13	2	1,5	4,4	10	45	450	100	97	95	88	82	71	59	40	
4SP6-18	3	2,2	6,2	14	50	450	127	124	121	113	105	92	78	50	
4SP6-23	4	3	8,3	-	-	-	177	173	169	160	152	131	110	85	
4SP6-32	5,5	4	10,3	-	-	-	221	214	208	201	195	159	122	90	
4SP6-40	7,5	5,5	13,7	-	-	-	253	247	242	231	220	190	160	95	
4SP6-56	10	7,5	18,5	-	-	-	287	281	275	261	255	225	200	100	

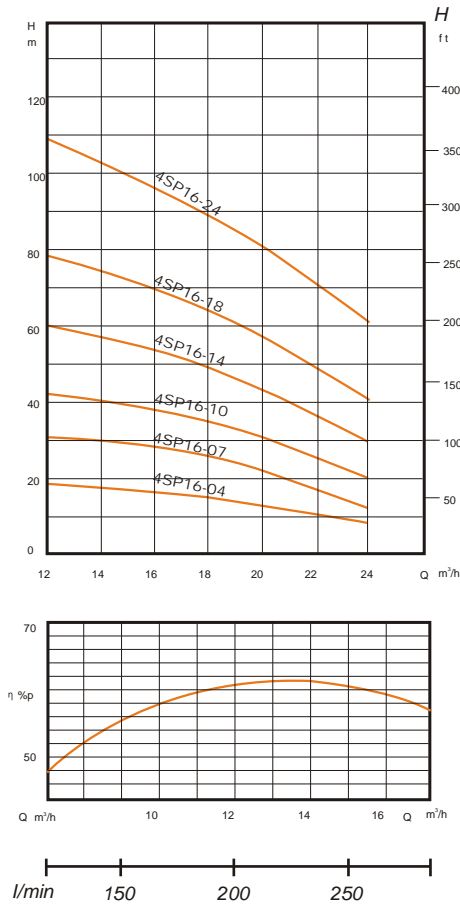
TYPE	MOTOR	THREE-PHASE		SINGLE-PHASE		CAPACITY										OUTLET mm
		380V		220V		m³/h										
		HP	KW	A	A	uF	4SP	0	2	4	6	7	8	9	10	
4SP8-04	1,1	0,75	2,2	4,8	25	450	30	28	25	21	19	18	16	13	50mm 2 G	
4SP8-06	1,5	1,1	3,0	8,6	35	450	43	41	37	32	29	26	22	20		
4SP8-08	2	1,5	4,4	10	45	450	56	54	52	43	40	36	32	27		
4SP8-13	3	2,2	6,2	14	50	450	89	87	85	68	62	55	48	40		
4SP8-17	4	3	8,3	-	-	-	118	115	112	91	84	76	68	59		
4SP8-20	4	3	8,3	-	-	-	135	133	132	108	99	89	80	67		
4SP8-24	5,5	4	10,3	-	-	-	162	157	153	130	119	107	94	80		
4SP8-20	4	3	8,3	-	-	-	190	186	181	155	141	127	112	96		
4SP8-30	7,5	5,5	13,7	-	-	-	233	227	220	180	164	148	130	111		
4SP8-35	10	7,5	18,5	-	-	-										

TYPE	MOTOR	THREE-PHASE		SINGLE-PHASE		CAPACITY										OUTLET mm
		380V		220V		m³/h										
		HP	KW	A	A	uF	4SP	0	5	7	8	10	12	14	16	
4SP10-04	1,5	1,1	3,0	8,6	35	450	32	26	20	17	15	14	13	11	50mm 2 G	
4SP10-07	2	1,5	4,4	10	45	450	45	35	30	29	25	23	20	17		
4SP10-10	3	2,2	6,2	14	50	450	63	51	48	43	38	36	33	30		
4SP10-13	4	3	8,3	-	-	-	88	70	63	60	53	50	45	40		
4SP10-17	5,5	4	10,3	-	-	-	110	92	85	82	75	65	55	45		
4SP10-22	7,5	5,5	13,7	-	-	-	132	120	118	108	102	84	66	61		
4SP10-28	10	7,5	18,5	-	-	-	166	150	137	130	121	102	82	70		

4SP Series 4" Submersible Pump



Characteristic of functioning at 2 poles 50 Hz
Caratteristiche di funzionamento a 2poli 50Hz
Caracteristiques de fonctionnement a 2 pole 50 Hz



DESCRIPTION:

Electric submersible pumps are with radial or semi-axial impellers. The impellers and the diffusers are in plastic material (noryl), whereas the bearings are in ceramic/rubber lubricated by the water circulation. Check valve is incorporated in the delivery body with threaded outlet. The coupling Pump-motor is according to NEMA regulations.

- Electric submersible pump:
Description of the main components of submersible electric pumps
- Delivery and suction adaptor: in brass alloy (Stainless steel is available on request)
 - Shaft in AISI 420, Coupling in AISI420, Pump body in AISI304
 - Check valve: in plastic
 - Impeller: Noryl fiberglass
 - Diffuser: Noryl Fiberglass with insert of stainless steel
 - Bearing: Wear resistant rubber
 - Bolt and nut: in Stainless Steel
 - Bushing: in Stainless Steel covered by ceramic
 - Strainer: in Stainless Steel
 - Motor: Standard NEMA 4inch motor

TYPE	MOTOR	THREE-PHASE		SINGLE-PHASE		CAPACITY								OUTLET mm				
		380V		220V		m³/h	0	5	7	8	10	12	14		16			
		HP	KW	A	A	uF	VC	l/min	0	83	112	133	167		200	233	267	
				TOTAL HEAD IN METERS														
4SP16-04	2	1,5	3,85	10	45	450												
4SP16-07	3	2,2	6,2	14	50	450												
4SP16-10	4	3	8,3	-	-	-												
4SP16-14	5,5	4	10,3	-	-	-												
4SP16-18	7,5	5,5	13,7	-	-	-												
4SP16-24	10	7,5	18,5	-	-	-												

The 4SN Series

Submersible pumps in AISI304/AISI316 Stainless Steel for 4" wells

- Robust design
- High corrosion resistance
- Economical operation
- Reliability
- All hydraulic parts built in AISI304/AISI316 stainless steel

This robust and lightweight pump is built entirely in AISI304/AISI316 stainless steel, easy to disassemble, and resists corrosion even in aggressive environments.

Impellers and diffusers built in AISI304/AISI316 stainless steel; Shaft and coupling in AISI420 Stainless steel

Guiding bearings on all the stages ensure resistance to wear and guarantee constantly reliable hydraulic characteristic over time.

The new "dynamic" wear ring reduces hydraulic losses to a minimum and keeps the pump from blocking during stand-by periods.

All pumps can be coupled to NEMA-Standard motors.

Applications:

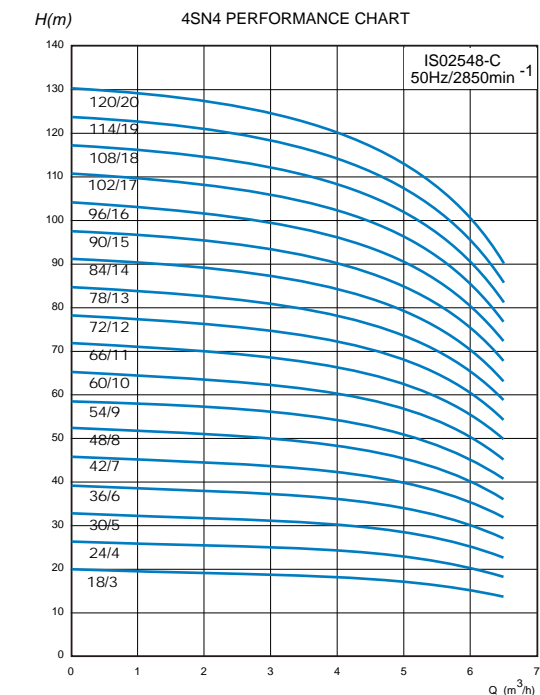
- Pressure boosting and distribution in civil and industrial systems
- Water level control
- Irrigation
- Fire-fighting
- Mining

As the following characteristics

- The technology of hydraulic parts; dewaxing stainless steel precision casting.
- The technology of the vane wheel inlet; balance partial axial force with graphite sealing ring.

PERFORMANCE & DIMENSION: (50Hz/2850rpm)

Model	Capacity (m³/h)	Head m	Power P2(kW)	Pump parts L(mm)	DNM Rp"
4SN4-18/3	4	18	0.37	244	2
4SN4-24/4	4	24	0.55	270	2
4SN4-30/5	4	30	0.75	296	2
4SN4-36/6	4	36	1.1	322	2
4SN4-42/7	4	42	1.1	348	2
4SN4-48/8	4	48	1.1	374	2
4SN4-54/9	4	54	1.5	400	2
4SN4-60/10	4	60	1.5	426	2
4SN4-66/11	4	66	2.2	452	2
4SN4-72/12	4	72	2.2	478	2
4SN4-78/13	4	78	2.2	504	2
4SN4-84/14	4	84	2.2	530	2
4SN4-90/15	4	90	2.2	556	2
4SN4-96/16	4	96	2.2	582	2
4SN4-102/17	4	102	3	608	2
4SN4-108/18	4	108	3	634	2
4SN4-114/19	4	114	3	660	2
4SN4-120/20	4	120	3	686	2
4SN4-126/21	4	126	3	712	2
4SN4-132/22	4	132	4	738	2
4SN4-138/23	4	138	4	764	2
4SN4-144/24	4	144	4	790	2
4SN4-150/25	4	150	4	816	2
4SN4-156/26	4	156	4	842	2
4SN4-162/27	4	162	4	868	2
4SN4-168/28	4	168	4	894	2
4SN4-174/29	4	174	4	920	2



4SN Series Full Stainless Steel 4" Submersible Pump

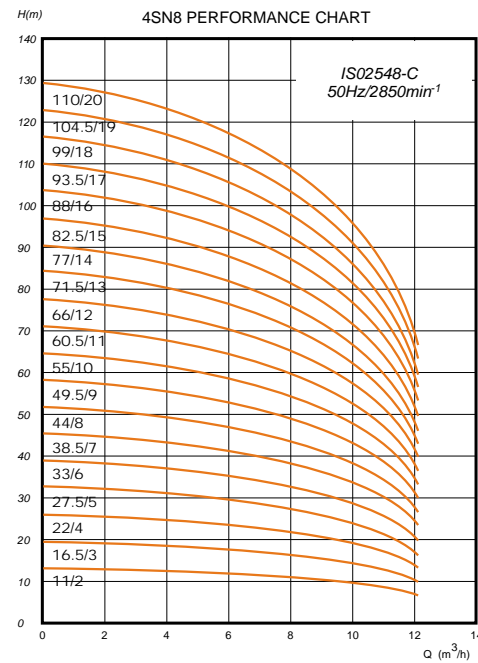


4SN Series
Full Stainless Steel
4" Submersible Pump



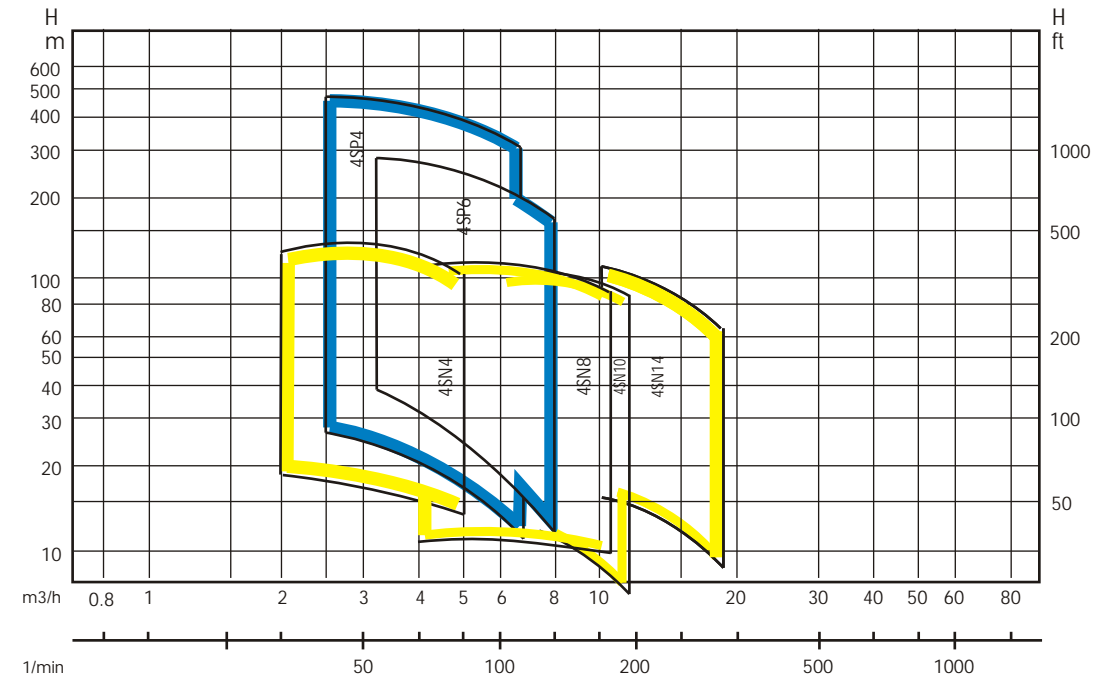
PERFORMANCE & DIMENSION: (50Hz/2850rpm)

Model	Capacity (m³/h)	Head m	Power P2(kW)	Pump parts L(mm)	DNM Rp"
4SN8-11/2	8	11	0.55	234	2
4SN8-16.5/3	8	16.5	0.75	268	2
4SN8-22/4	8	22	1.1	302	2
4SN8-27.5/5	8	27.5	1.1	336	2
4SN8-33/6	8	33	1.5	370	2
4SN8-38.5/7	8	38.5	1.5	404	2
4SN8-44/8	8	44	2.2	438	2
4SN8-49.5/9	8	49.5	2.2	472	2
4SN8-55/10	8	55	2.2	506	2
4SN8-60.5/11	8	60.5	3	540	2
4SN8-66/12	8	66	3	574	2
4SN8-71.5/13	8	71.5	3	608	2
4SN8-77/14	8	77	4	642	2
4SN8-82.5/15	8	82.5	4	676	2
4SN8-88/16	8	88	4	710	2
4SN8-93.5/17	8	93.5	4	744	2
4SN8-99/18	8	99	4	778	2
4SN8-104.5/19	8	104.5	4	812	2
4SN8-110/20	8	110	4	846	2
4SN10-10/2	10	10	0.55	234	2
4SN10-15/3	10	15	0.75	268	2
4SN10-20/4	10	20	1.1	302	2
4SN10-25/5	10	25	1.1	336	2
4SN10-30/6	10	30	1.5	370	2
4SN10-35/7	10	35	1.5	404	2
4SN10-40/8	10	40	2.2	438	2
4SN10-45/9	10	45	2.2	472	2
4SN10-50/10	10	50	2.2	506	2
4SN10-55/11	10	55	3	540	2
4SN10-60/12	10	60	3	574	2
4SN10-65/13	10	65	3	608	2
4SN10-70/14	10	70	4	642	2
4SN10-75/15	10	75	4	676	2
4SN10-80/16	10	80	4	710	2
4SN10-85/17	10	85	4	744	2
4SN10-90/18	10	90	4	778	2



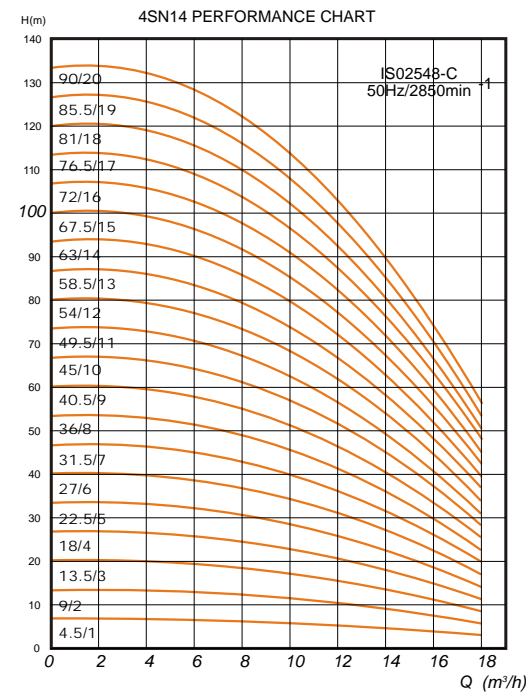
RADIAL
RADIALES
RADIALI

PERFORMANCES RANGE AT 2POLES/50HZ
CHAMPS DE PERFORMANCES A 2 POLES/50HZ
CAMPI DI PRESTAZIONI A 2POLI/50HZ

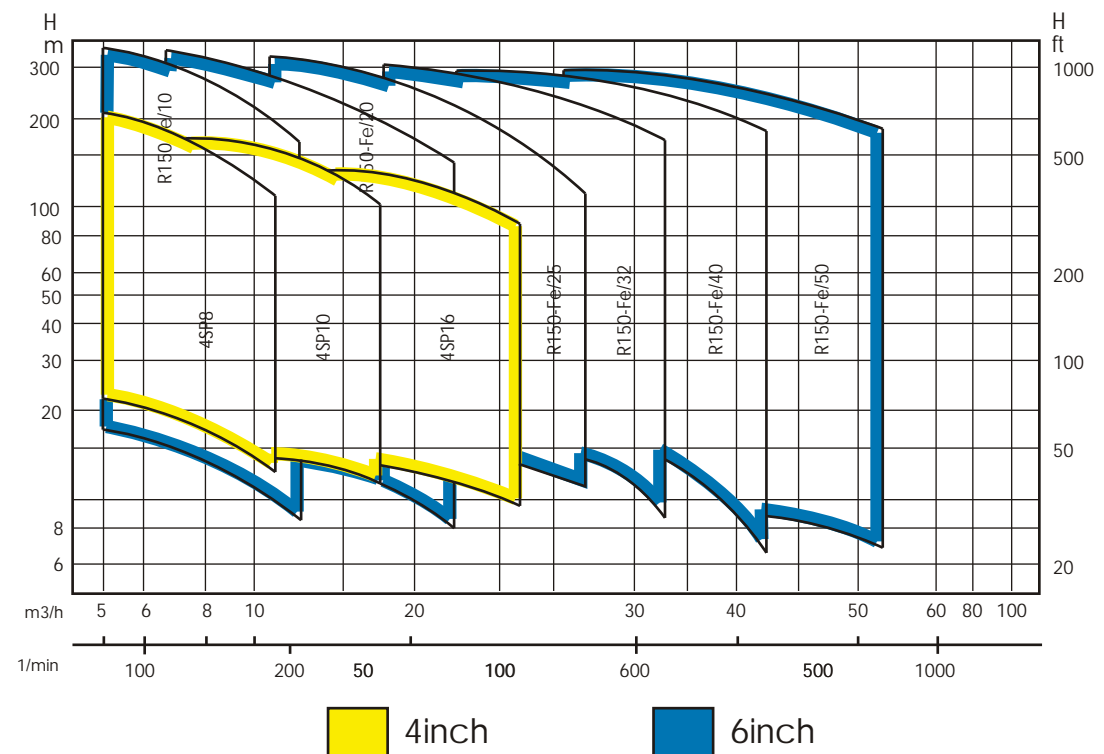


PERFORMANCE & DIMENSION: (50Hz/2850rpm)

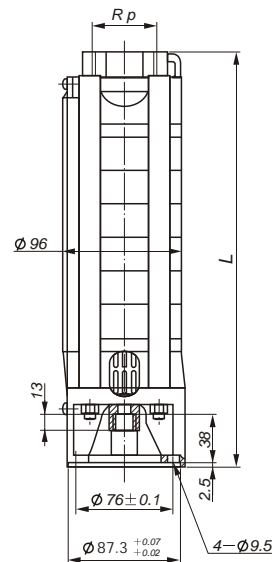
Model	Capacity (m³/h)	Head m	Power P2(kW)	Pump parts L(mm)	DNM Rp"
4SN14-4.5/1	14	4.5	0.37	222	2
4SN14-9/2	14	9	0.55	278	2
4SN14-13.5/3	14	13.5	1.1	334	2
4SN14-18/4	14	18	1.1	390	2
4SN14-22.5/5	14	22.5	1.5	446	2
4SN14-27/6	14	27	2.2	502	2
4SN14-31.5/7	14	31.5	2.2	558	2
4SN14-36/8	14	36	2.2	614	2
4SN14-40.5/9	14	40.5	3	670	2
4SN14-45/10	14	45	3	726	2
4SN14-49.5/11	14	49.5	4	782	2
4SN14-54/12	14	54	4	838	2
4SN14-58.5/13	14	58.5	4	894	2
4SN14-63/14	14	63	4	950	2
4SN14-67.5/15	14	67.5	5.5	1006	2
4SN14-72/16	14	72	5.5	1062	2
4SN14-76.5/17	14	76.5	5.5	1118	2
4SN14-81/18	14	81	5.5	1174	2
4SN14-85.5/19	14	85.5	5.5	1230	2



SEMI-AXIAL
DEMI-AXIALES
SEMIASSIALI



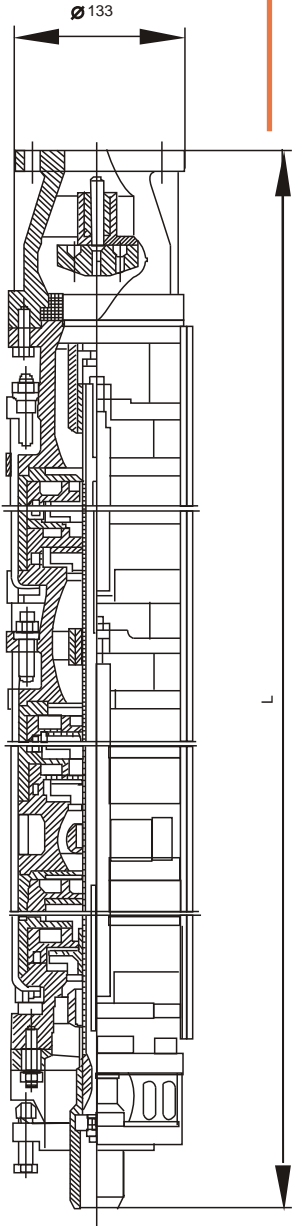
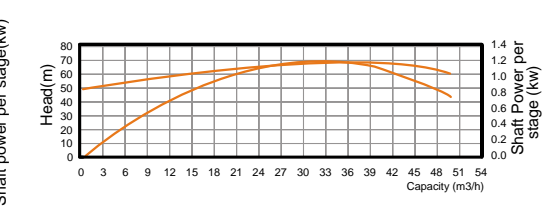
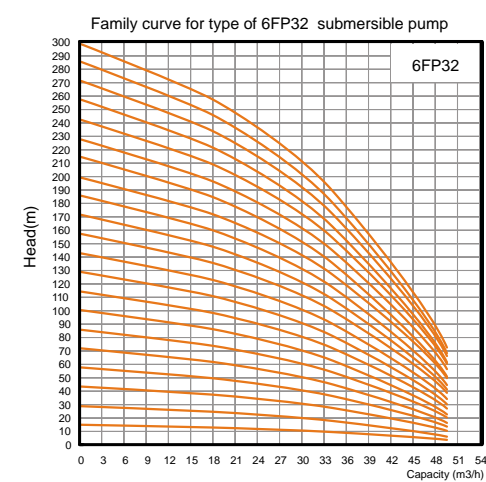
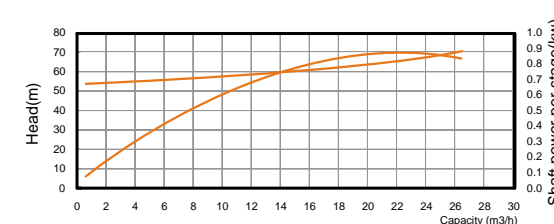
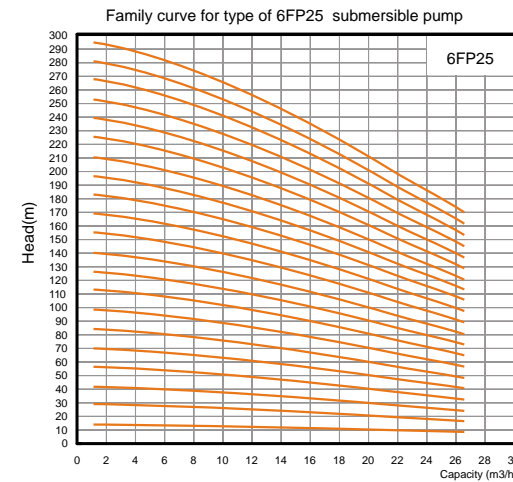
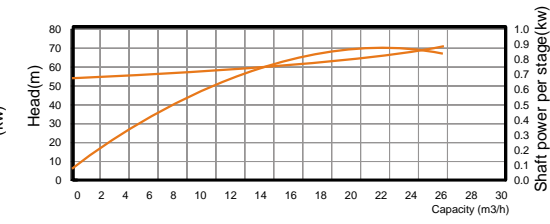
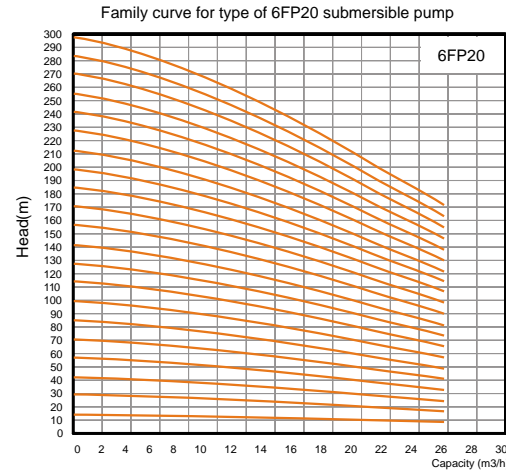
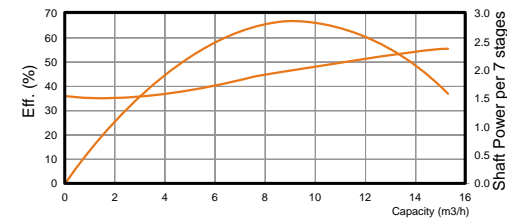
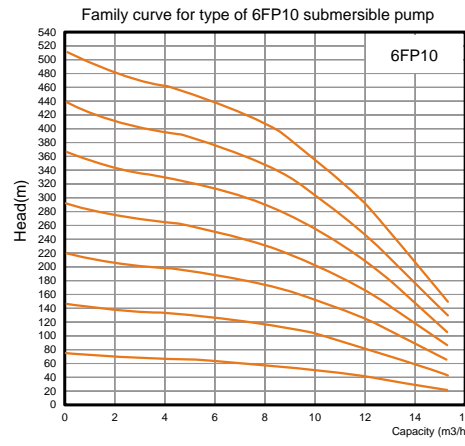
DIMENSIONS(mm)



6FP Series
Submersible Pump



Characteristic of functioning at 2 poles 50 Hz
Caratteristiche di funzionamento a 2poli 50Hz
Caracteristiques de fonctionnement a 2 pole 50 Hz



TYPE	MOTOR		EFF. %	L. WEIGHT		MAX. Dia. Of Pump Mm	Q	CAPACITY							Discharge outlet		
	HP	KW		Mm	kg			m³/h	0	2	4	6	8	10		12	14
6FP10-50/07	5.5	3	64	683	31	133	2'G	0	72	70	67	61	58	50	40	30	m
6FP10-100/14	7.5	5.5	64	1131	46	133		0	146	138	133	126	116	100	80	60	
6FP10-150/21	10	7.5	64	1518	62	133		0	220	206	200	191	174	150	122	90	
6FP10-200/28	15	11	64	1950	80	133		0	294	274	264	255	230	200	162	118	
6FP10-250/35	18	13	64	2337	95	133		0	364	342	330	316	286	250	202	146	
6FP10-300/42	20	15	64	2724	110	133		0	438	410	396	378	344	300	243	174	
6FP10-350/49	25	18.5	64	3111	130	133		0	512	479	460	440	400	350	284	201	

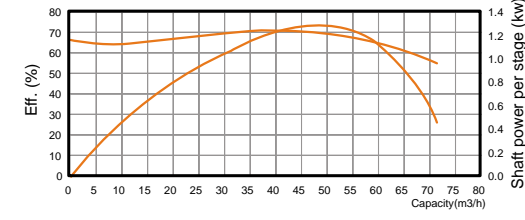
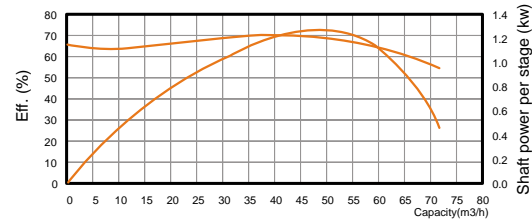
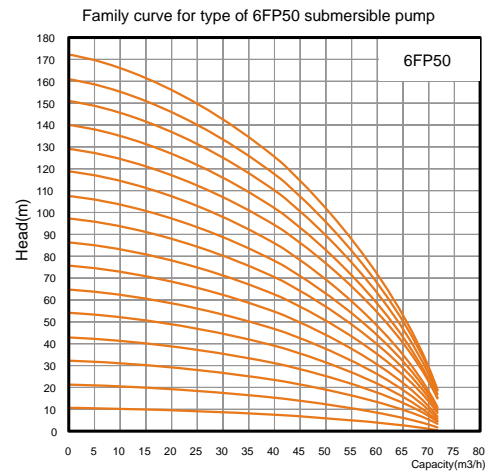
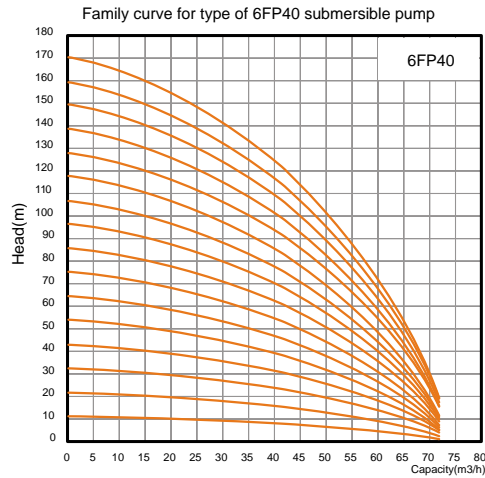
TYPE	MOTOR		EFF. %	L. WEIGHT		MAX. Dia. Of Pump Mm	Q	CAPACITY							Discharge outlet		
	HP	KW		Mm	kg			m³/h	0	4	8	12	16	20		24	26
6FP25-68/8	10	7.5	68	1316	64	133	2.5'G	0	113	109	104	98	90	81	71	67	m
6FP25-85/10	12.5	9.2	68	1552	76	133		0	142	138	132	123	112	101	90	84	
6FP25-102/12	15	11	68	1788	88	133		0	171	166	156	148	134	121	106	100	
6FP25-119/14	18	13	68	2024	100	133		0	200	194	184	172	168	141	126	117	
6FP25-136/16	20	15	68	2260	112	133		0	227	221	210	196	180	162	142	133	
6FP25-153/18	25	18.5	68	2496	124	133		0	256	248	236	221	202	182	160	150	
6FP25-170/20	30	22	68	2732	136	133		0	284	276	264	246	226	203	178	167	

TYPE	MOTOR		EFF. %	L. WEIGHT		MAX. Dia. Of Pump Mm	Q	CAPACITY							Discharge outlet		
	HP	KW		Mm	kg			m³/h	0	4	8	12	16	20		24	26
6FP20-70/7	10	7.5	68.5	1198	58	133	2'G	0	100	96	91	86	80	70	63	57	m
6FP20-90/9	12.5	9.2	68.5	1434	70	133		0	128	122	118	110	100	90	80	75	
6FP20-110/11	15	11	68.5	1670	82	133		0	156	152	144	136	124	110	98	92	
6FP20-150/15	18	13	68.5	2142	106	133		0	215	208	197	184	170	150	132	124	
6FP20-170/17	20	15	68.5	2378	118	133		0	243	234	223	209	190	170	152	142	
6FP20-190/19	25	18.5	68.5	2614	130	133		0	270	262	250	233	212	190	170	158	
6FP20-210/21	30	22	68.5	2850	142	133		0	298	290	276	257	243	210	188	176	

TYPE	MOTOR		EFF. %	L. WEIGHT		MAX. Dia. Of Pump Mm	Q	CAPACITY							Discharge outlet		
	HP	KW		Mm	kg			m³/h	3	9	15	21	27	33		39	45
6FP32-76/8	10	7.5	68.5	1316	64	133	2.5'G	0	112	107	101	95	87	75	60	42	m
6FP32-95/10	12.5	9.2	68.5	1552	76	133		0	139	132	126	118	108	93	75	53	
6FP32-114/12	15	11	68.5	1788	88	133		0	166	158	151	141	129	111	90	64	
6FP32-133/14	18	13	68.5	2024	100	133		0	194	187	177	165	150	130	105	75	
6FP32-152/16	20	15	68.5	2260	112	133		0	222	213	202	189	171	149	120	86	
6FP32-171/18	25	18.5	68.5	2496	124	133		0	250	239	227	212	192	168	136	97	
6FP32-190/20	30	22	68.5	2732	136	133		0	278	266	252	236	213	186	151	108	

6FP Series Submersible Pump

Characteristic of functioning at 2 poles 50 Hz
Caratteristiche di funzionamento a 2poli 50Hz
Caracteristiques de fonctionnement a 2 pole 50 Hz



TYPE	MOTOR		EFF. %	L. WEIGHT		MAX. Dia. Of Pump Mm	Q m³/h l/min	CAPACITY							Discharge outlet
	HP	KW		Mm	kg			0	10	20	30	40	50	60	
6FP40-30/4	7.5	5.5	71	868	42	133	0	166	330	500	660	830	1000	3'G	
6FP40-45/6	10	7.5	71	1116	56	133	0	166	330	500	660	830	1000		
6FP40-60/8	15	11	71	1364	70	133	0	166	330	500	660	830	1000		
6FP40-75/10	18	13	71	1612	84	133	0	166	330	500	660	830	1000		
6FP40-90/12	20	15	71	1860	98	133	0	166	330	500	660	830	1000		
6FP40-105/14	25	18.5	71	2108	112	133	0	166	330	500	660	830	1000		
6FP40-120/16	30	22	71	2356	126	133	0	166	330	500	660	830	1000		

TYPE	MOTOR		EFF. %	L. WEIGHT		MAX. Dia. Of Pump Mm	Q m³/h l/min	CAPACITY							Discharge outlet
	HP	KW		Mm	kg			0	10	20	30	40	50	60	
6FP50-26/4	10	7.5	72	868	42	133	0	166	330	500	660	830	1000	3'G	
6FP50-39/6	12.5	9.2	72	1116	56	133	0	166	330	500	660	830	1000		
6FP50-52/8	15	11	72	1364	70	133	0	166	330	500	660	830	1000		
6FP50-65/10	20	15	72	1612	84	133	0	166	330	500	660	830	1000		
6FP50-78/12	25	18.5	72	1860	98	133	0	166	330	500	660	830	1000		
6FP50-91/14	30	22	72	2108	112	133	0	166	330	500	660	830	1000		
6FP50-104/16	30	22	72	2356	126	133	0	166	330	500	660	830	1000		

THE 8FG Series

All the 8FG series pumps offer efficiency of between 76-78% and therefore all the working point selected between 40 and 130m³/h have efficiencies always equal to or higher than 76%

- Robust design
- High corrosion resistance
- Economical operation
- Reliability
- All hydraulic parts built in AISI304/AISI316 stainless steel

This robust and lightweight pump is built entirely in AISI304 / AISI316 stainless steel, easy to disassemble, and resists corrosion even in aggressive environments.

Impellers and diffusers built in AISI304 / AISI316 stainless steel; Shaft and coupling in AISI420 Stainless steel

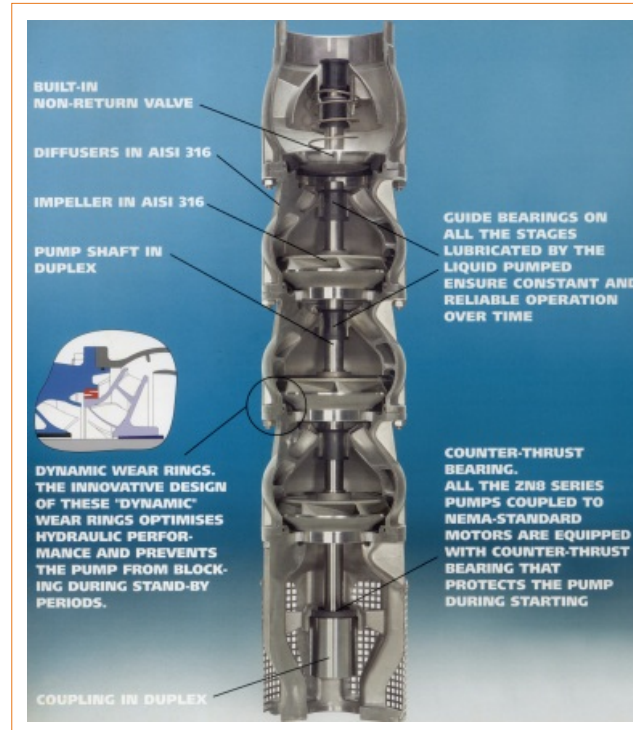
Guiding bearings on all the stages ensure resistance to wear and guarantee constantly reliable hydraulic characteristic over time.

The new "dynamic" wear ring reduces hydraulic losses to a min. and keeps the pump from blocking during stand-by periods.

All pumps can be coupled to NEMA-Standard motors.

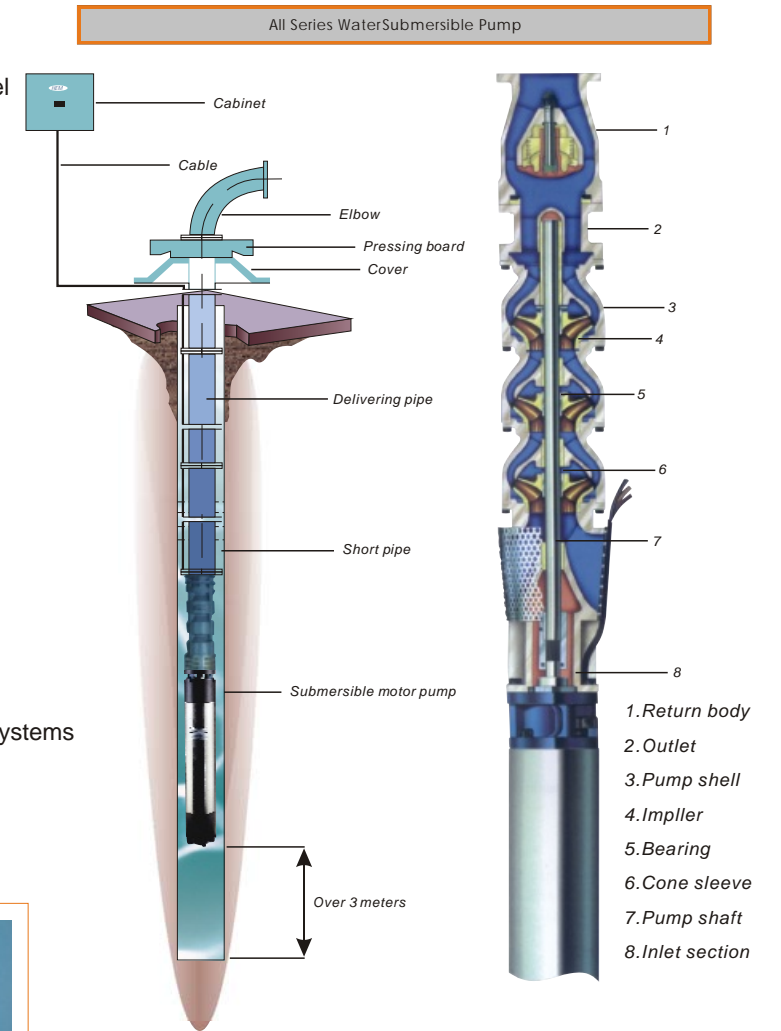
Applications:

- Pressure boosting and distribution in civil and industrial systems
- Water level control
- Irrigation
- Fire-fighting
- Mining

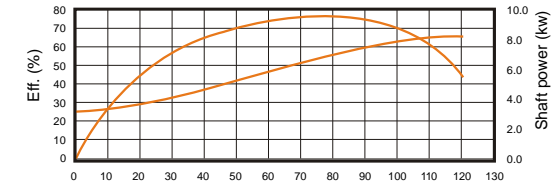
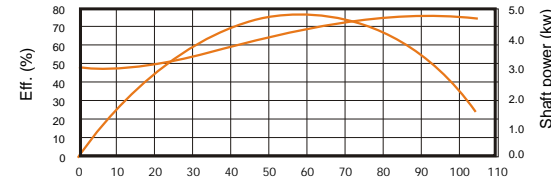
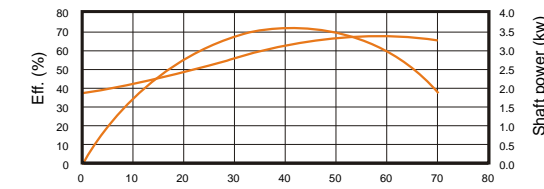
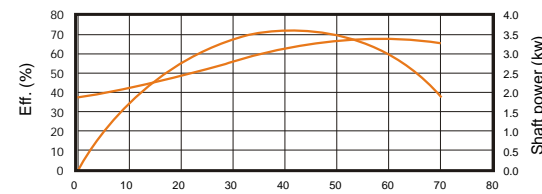
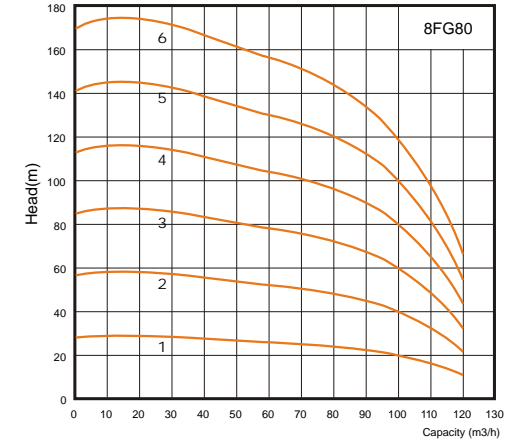
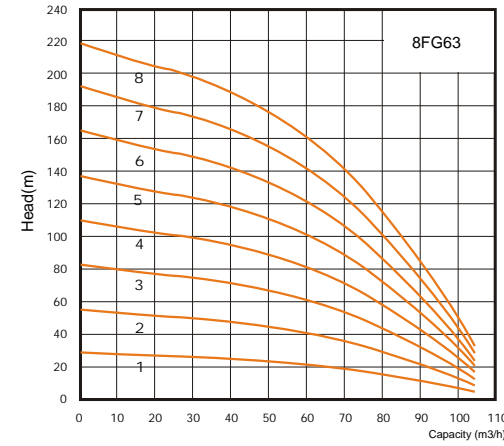
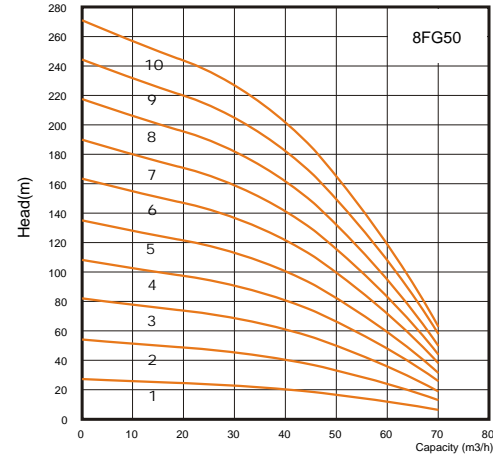
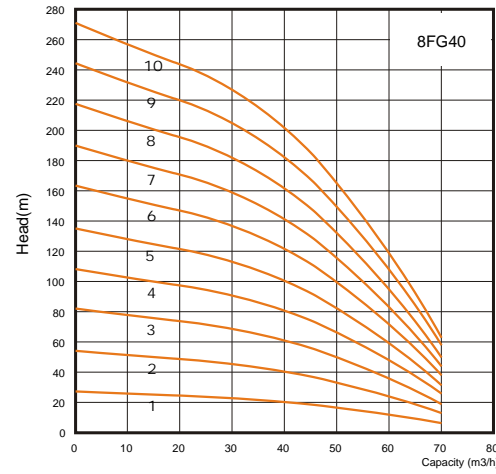


Always the Ideal Choice

High efficiency Submersible Pump
In Full Stainless steel AISI 316 Version
In Cast iron GG25; Bronze Impeller Version
In Cast iron GG25 Ceramic coated Version



8FP Series Submersible Pump



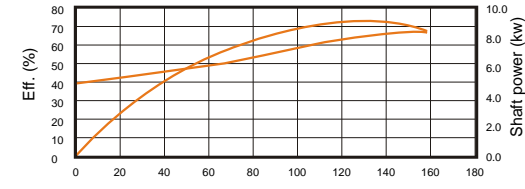
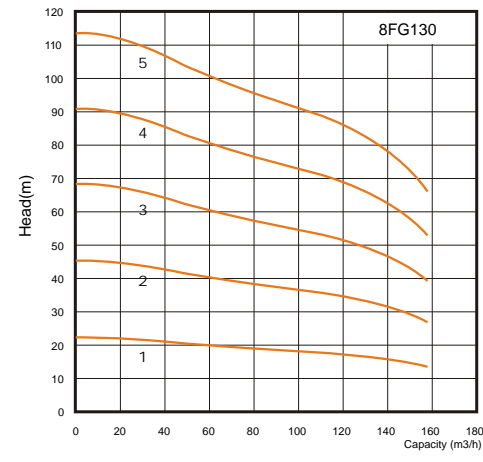
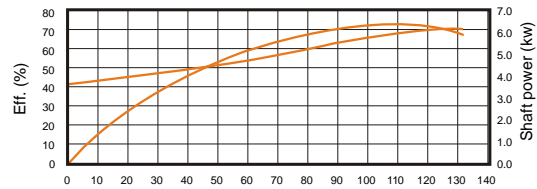
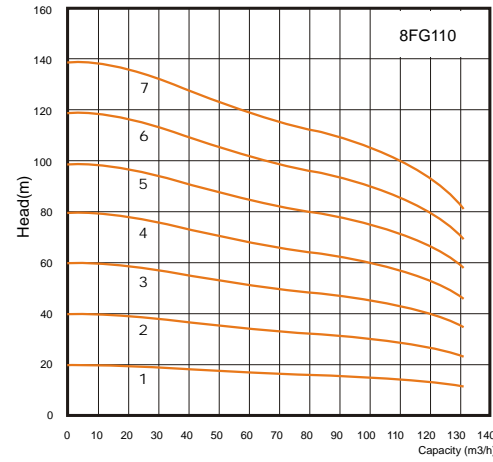
TYPE	MOTOR		EFF. %	L. WEIGHT		MAX. Dia. Of Pump Mm	Q m ³ /h l/min	CAPACITY							Discharge outlet	
	HP	KW		Mm	kg			Mm	TOTAL HEAD IN METERS							
									10	20	30	40	50	60		70
8FG40-84/4	25	18.5	75	1177	91	195	110	106	100	90	84	66	50	3' G		
8FG40-105/5	30	22	75	1317	105	195	136	130	122	116	105	84	60			
8FG40-126/6	40	30	75	1457	119	195	162	154	144	136	126	100	70			
8FG40-147/7	40	30	75	1597	133	195	188	178	168	160	147	117	82			
8FG40-168/8	50	37	75	1737	147	195	212	204	192	180	168	133	94			
8FG40-189/9	50	37	75	1877	161	195	242	230	220	204	189	150	108			
8FG40-210/10	60	45	75	2017	175	195	270	256	243	226	210	166	120			

TYPE	MOTOR		EFF. %	L. WEIGHT		MAX. Dia. Of Pump Mm	Q m ³ /h l/min	CAPACITY								Discharge outlet	
	HP	KW		Mm	kg			Mm	TOTAL HEAD IN METERS								
									20	30	40	50	60	70	80		
8FG63-42/2	20	15	75	881	63	195	54	50	48	44	40	37	30	4' G			
8FG63-63/3	30	22	75	1103	77	195	78	74	72	66	60	52	42				
8FG63-84/4	40	30	75	1265	91	195	102	98	96	88	80	70	59				
8FG63-105/5	50	37	75	1427	105	195	126	122	118	111	100	90	73				
8FG63-126/6	60	45	75	1589	119	195	152	148	141	133	120	108	88				
8FG63-147/7	60	45	75	1751	133	195	178	172	164	156	140	123	102				
8FG63-168/8	75	55	75	1913	147	195	204	197	188	178	160	141	117				

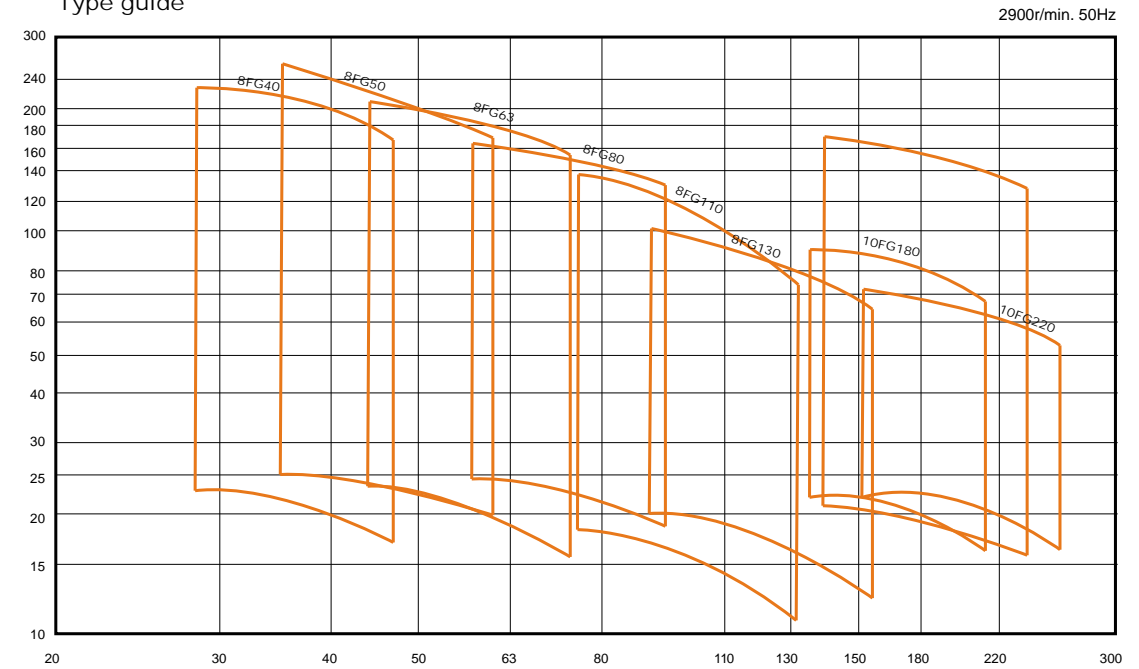
TYPE	MOTOR		EFF. %	L. WEIGHT		MAX. Dia. Of Pump Mm	Q m ³ /h l/min	CAPACITY							Discharge outlet	
	HP	KW		Mm	kg			Mm	TOTAL HEAD IN METERS							
									10	20	30	40	50	60		70
8FG50-48/2	20	15	75	837	63	195	58	56	54	51	48	44	38	3' G		
8FG50-72/3	25	18.5	75	1037	77	195	86	84	81	78	72	68	58			
8FG50-96/4	30	22	75	1177	91	195	116	114	110	104	96	90	78			
8FG50-120/5	40	30	75	1317	105	195	144	140	136	130	120	112	98			
8FG50-144/6	50	37	75	1457	119	195	172	168	164	154	144	132	109			
8FG50-168/7	60	45	75	1597	133	195	200	194	190	180	168	152	130			
8FG50-192/8	75	55	75	1737	147	195	228	222	216	208	192	174	150			

TYPE	MOTOR		EFF. %	L. WEIGHT		MAX. Dia. Of Pump Mm	Q m ³ /h l/min	CAPACITY							Discharge outlet	
	HP	KW		Mm	kg			Mm	TOTAL HEAD IN METERS							
									0	20	40	60	80	100		1330
8FG80-48/2	25	18.5	75	941	63	195	57	58	55	50	48	40		4' G		
8FG80-72/3	40	30	75	1103	77	195	85	87	84	78	72	60				
8FG80-96/4	50	37	75	1265	91	195	113	115	112	104	96	80				
8FG80-120/5	60	45	75	1427	105	195	142	145	138	130	120	100				
8FG80-144/6	75	55	75	1589	119	195	170	173	166	156	144	120				

8FP Series
Submersible Pump



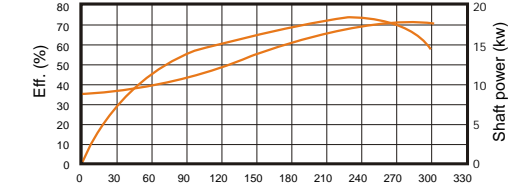
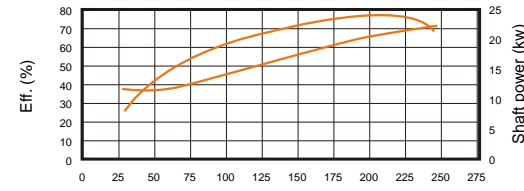
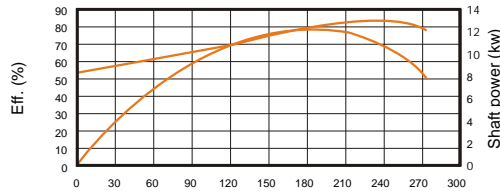
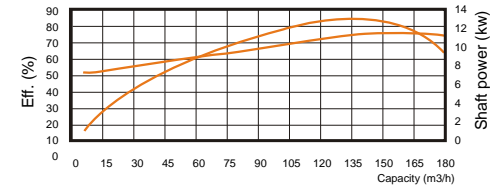
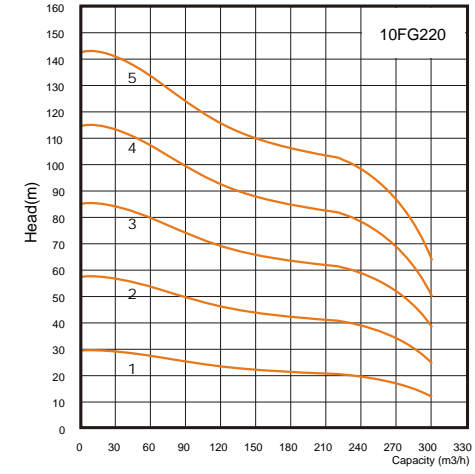
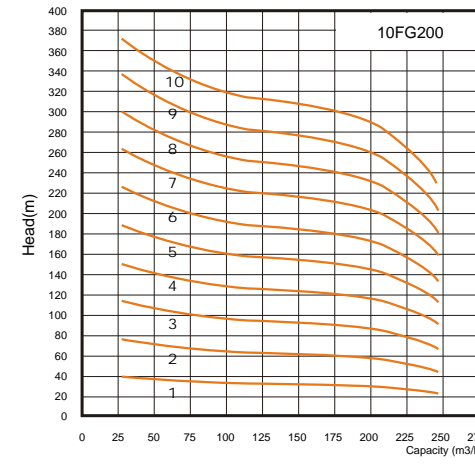
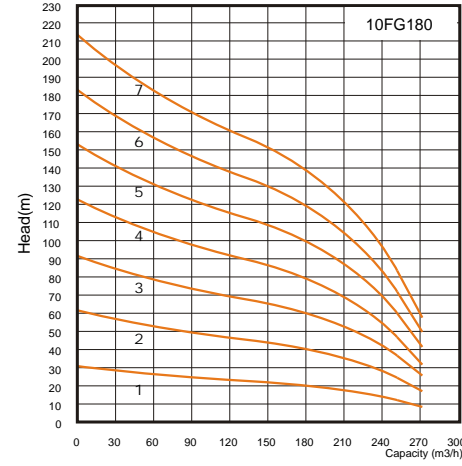
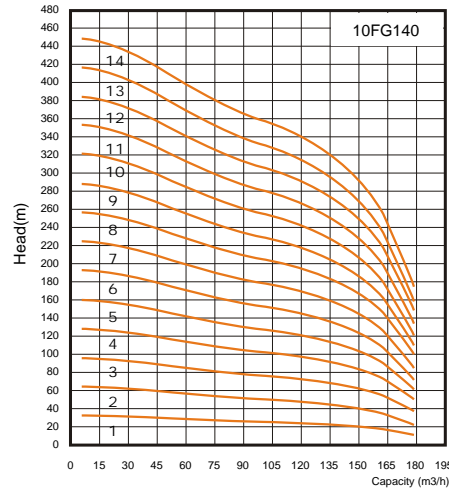
Type guide



TYPE	MOTOR		EFF. %	L. WEIGHT		MAX. Dia. Of Pump Mm	Q m³/h l/min	CAPACITY						Discharge outlet	
	HP	KW		Mm	kg			Mm	TOTAL HEAD IN METERS						
									20	40	60	80	100		120
8FG110-42/3	40	30	75	1157	83	195	58	56	52	49	45	40		5" G	
8FG110-56/4	50	37	75	1337	99	195	77	73	68	64	60	52			
8FG110-70/5	60	45	75	1517	115	195	96	91	85	80	75	65			
8FG110-86/4	75	55	75	1697	131	195	114	109	102	96	90	80			
8FG110-98/7	100	75	75	1877	147	195	132	127	119	112	105	94			

TYPE	MOTOR		EFF. %	L. WEIGHT		MAX. Dia. Of Pump Mm	Q m³/h l/min	CAPACITY						Discharge outlet	
	HP	KW		Mm	kg			Mm	TOTAL HEAD IN METERS						
									40	60	80	100	120		140
8FG130-16/1	25	18.5	75	797	51	195	22	20	19	18	17	15		5" G	
8FG130-32/2	30	22	75	977	67	195	44	40	37	36	34	31			
8FG130-48/3	50	37	75	1157	83	195	65	60	56	55	51	47			
8FG130-64/4	60	45	75	1337	99	195	85	80	76	73	69	62			
8FG130-80/5	75	55	75	1517	115	195	106	100	95	91	86	82			

10FP Series Submersible Pump



TYPE	MOTOR		EFF. %	L. Mm	WEIGHT kg	MAX. Dia. Of Pump Mm	CAPACITY							Discharge outlet
	HP	KW					Q							
							m³/h	15	45	75	105	135	165	
10FG140-132/6	100	75	75	1762	166	233	192	180	162	151	140	106		5" G
10FG140-176/8	150	110	75	2132	210	233	252	238	220	200	184	140		
10FG140-220/10	175	125	75	2502	254	233	316	296	270	253	228	174		
10FG140-264/12	200	160	75	2872	298	233	380	354	326	301	272	208		
10FG140-308/14	250	185	75	3242	342	233	441	412	380	350	318	242		

TYPE	MOTOR		EFF. %	L. Mm	WEIGHT kg	MAX. Dia. Of Pump Mm	CAPACITY							Discharge outlet
	HP	KW					Q							
							m³/h	75	100	125	150	175	200	
10FG200-58/2	75	55	76	1072	105	233	69	66	64	62	60	58		6" G
10FG200-116/4	125	90	76	1392	155	233	132	129	124	122	119	116		
10FG200-174/6	185	140	76	1712	195	233	199	189	186	182	180	174		
10FG200-232/8	250	185	76	2032	240	233	264	254	250	244	240	232		
10FG200-290/10	320	240	76	2352	285	233	331	320	316	310	300	290		

TYPE	MOTOR		EFF. %	L. Mm	WEIGHT kg	MAX. Dia. Of Pump Mm	CAPACITY						Discharge outlet	
	HP	KW					Q							
							m³/h	90	120	150	180	210		240
10FG180-60/3	60	45	77	1272	115	233	74	70	65	60	52	41		6" G
10FG180-80/4	75	55	77	1452	135	233	98	92	85	80	70	54		
10FG180-100/5	100	75	77	1632	155	233	122	115	108	100	88	69		
10FG180-120/6	125	90	77	1812	175	233	146	139	130	120	105	80		
10FG180-140/7	150	100	77	1992	195	233	171	160	150	140	121	95		

TYPE	MOTOR		EFF. %	L. Mm	WEIGHT kg	MAX. Dia. Of Pump Mm	CAPACITY						Discharge outlet	
	HP	KW					Q							
							m³/h	90	120	150	180	210		240
10FG220-20/1	25	18.5	74	912	80	233	25	24	23	22	21	20		6" G
10FG220-40/2	50	37	74	1092	105	233	50	46	44	43	42	40		
10FG220-60/3	75	55	74	1272	130	233	74	69	66	64	63	60		
10FG220-80/4	100	75	74	1452	155	233	98	92	88	85	83	80		
10FG220-100/5	150	110	74	1632	180	233	123	115	109	107	104	100		

Series VHS Vertical Hollow Motor.

Products Features:

- Frame No.: 132-315.
- Insulation: Class B or class F.
- Rated motor power: 5.5KW to 320KW.
- High axial thrust load bearing and lubricate system.
- Power supply: 380V, 380/660V 420V; 50 HZ or 60HZ.
- Reliable reverse brake device.
- Degree of protection: IP44, 5.5KW-15KW.

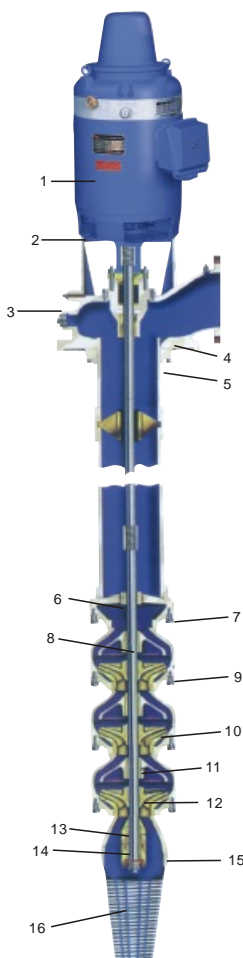
IP23, 18.5KW-320KW.

Main Technical Datum In 380V 50HZ

Type	Rated Output (HP/kW)	Rated Current (A)	Synchronous Speed (r/min)	Down Thrust Load		Effic. (η %)	Power Factor (cos φ)	Locked Rotor Curr. Rated Curr.	Locked Rotor Torque Rated Torque	Break-down Torque Rated Torque	Degree of Protection
				Standar (N)	Extra (N)						
VHS132-1-2	7.5/5.5	11.3	3000	7840		83.8	0.88		1.9	2.2	IP44
VHS132-2-2	10/7.5	15.3	3000	7840		84.8	0.88		1.9	2.2	
VHS160-1-2	15/11	22.5	3000	9800	13170	84.5	0.88		1.8	2.2	
VHS160-2-2	20/15	30.3	3000	9800	13170	85.5	0.88		1.8	2.2	
VHS160-1-4	15/11	22.7	1500	12740	16640	86.5	0.85		1.8	2	
VHS160-2-4	20/15	30.3	1500	12740	16640	87.5	0.86		1.8	2	
VHS180-1-2	25/18.5	36.7	3000	12740	13170	87	0.88		1.7	2.2	
VHS180-2-2	30/22	43.4	3000	12740	13170	87.5	0.88		1.7	2.2	
VHS180-1-4	25/18.5	37.1	1500	15680	16640	88	0.86		1.7	2	
VHS180-2-4	30/22	43.9	1500	15680	16640	88.5	0.86		1.7	2	
VHS200-1-2	40/30	58.9	3000	16600	17350	88	0.88		1.7	2	
VHS200-2-2	50/37	72.2	3000	16600	17350	88.5	0.88	7	1.7	2	
VHS200-1-4	40/30	59.2	1500	21560	22250	89.5	0.87		1.7	2	
VHS200-2-4	50/37	72.2	1500	21560	22250	90	0.87		1.7	2	
VHS200-3-4	60/45	87.3	1500	21560	22250	90.5	0.87		1.7	2	
VHS250-1-4	75/55	104.9	1500	28420	39150	91	0.88		1.7	2	
VHS250-2-4	100/75	142.3	1500	28420	39150	91.5	0.88		1.7	2	
VHS250-3-4	125/90	169.8	1500	28420	39150	91.5	0.88		1.7	2	
VHS280-1-4	150/110	207.6	1500	39200	51610	92	0.88		1.7	2	
VHS280-2-4	175/132	247.7	1500	39200	51610	92.5	0.88		1.7	2	
VHS280-3-4	200/150	280.0	1500	39200	51610	92.5	0.88		1.7	2	
VHS280-4-4	250/185	345.3	1500	39200	51610	92.5	0.88		1.7	2	
VHS280-5-4	270/200	371.3	1500	39200	51610	93	0.88		1.7	2	
VHS280-6-4	300/220	408.4	1500	39200	51610	93	0.88		1.7	2	

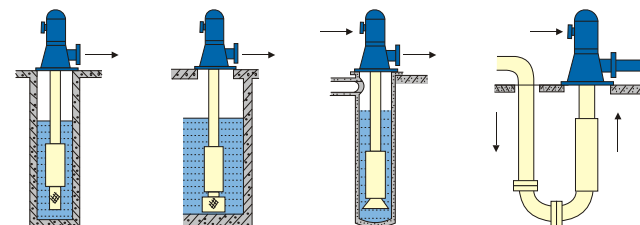


Deep Well Pump

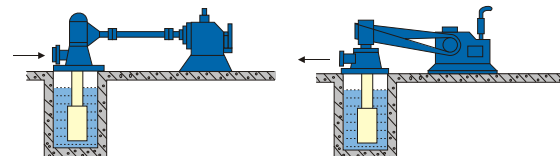


1. Motor
2. Pump seat
3. Pre-lubricating plug
4. In-water flange
5. Upper short pipe
6. Upper bearing
7. Out-water casing
8. Shaft
9. Middle bearing
10. Impeller
11. Middle bearing
12. Cone sleeve
13. Sand-proof ring
14. Bottom bearing
15. Bottom casing
16. Straining pipe/strainer

VHS Motor & Pump Application



Pump driven by Diesel Engine which can be replaced by VHS Motor if The electricity Is Available.



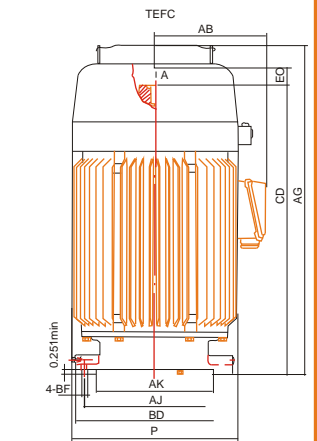
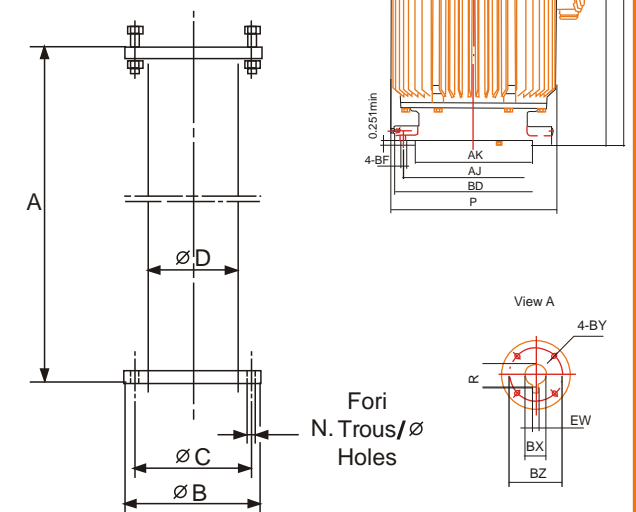
Ratings and Performance

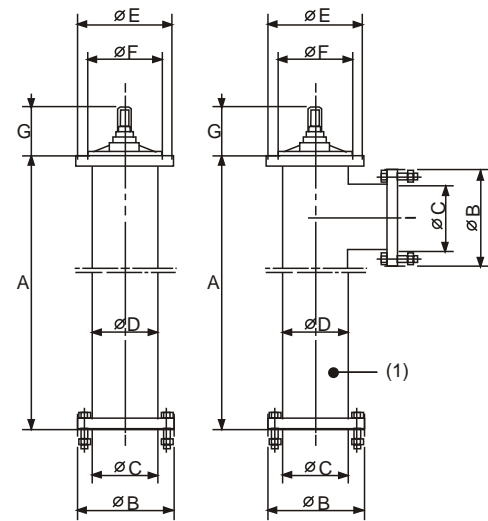
Type	Rated Output (HP/kW)	Rated Current (A)	Rated Voltage (V)	Rated Frequency (Hz)	Synchronous Speed (r/min)	Down Thrust Load		Efficiency %	Power Factor	Locked Rotor Current Rated Current	Locked Rotor Torque Rated Torque	Break-down Torque Rated Torque	Degree of Protection
						Standard (N)(lb)	Extra (N)(lb)						
VHS160-1-2	15/11	22.4	380	50	3000	9800	2200 13170 2960	84.7	0.88		1.8	2.2	TEFC (Ip54)
VHS160-2-2	20/15	30.2	380	50	3000	9800	2200 13170 2960	85.7	0.88		1.8	2.2	
VHS160-1-4	15/11	22.9	380	50	1500	12740	2860 16640 3740	87	0.84		1.8	2	
VHS160-2-4	20/15	30.5	380	50	1500	12740	2860 16640 3740	88	0.85		1.8	2	
VHS180-1-2	25/18.5	36.3	380	50	3000	12740	2860 13170 2960	87	0.89		1.7	2.2	
VHS180-2-2	30/22	43.2	380	50	3000	12740	2860 13170 2960	87	0.89		1.7	2.2	
VHS180-1-4	25/18.5	36.3	380	50	1500	15680	3520 16640 3740	90	0.86		1.7	2	
VHS180-2-4	30/22	42.9	380	50	1500	15680	3520 16640 3740	90.5	0.86		1.7	2	
VHS200-1-2	40/30	57.9	380	50	3000	16660	3740 17350 3900	88.5	0.89		1.7	2.2	
VHS200-2-2	50/37	71.4	380	50	3000	16660	3740 17350 3900	88.5	0.89	7	1.7	2.2	
VHS200-1-4	40/30	57.4	380	50	1500	21560	4850 22250 5000	91.2	0.87		1.7	2	
VHS200-2-4	50/37	70.8	380	50	1500	21560	4850 22250 5000	91.3	0.87		1.7	2	
VHS200-3-4	60/45	85.1	380	50	1500	21560	4850 22250 5000	91.3	0.88		1.7	2	
VHS250-1-4	75/55	103.1	380	50	1500	28420	6390 39150 8800	92.1	0.88		1.7	2	
VHS250-2-4	100/75	140.4	380	50	1500	28420	6390 39150 8800	92.2	0.88		1.7	2	
VHS250-3-4	125/90	165.2	380	50	1500	28420	6390 39150 8800	93	0.89		1.7	2	
VHS280-1-4	150/110	201.5	380	50	1500	39200	8810 51600 11600	93.2	0.89		1.7	2	
VHS280-2-4	175/132	241.8	380	50	15	39200	8810 51600 11600	93.2	0.89		1.7	2	
VHS280-3-4	200/150	273.3	380	50		39200	8810 51600 11600	93.7	0.89		1.7	2	
VHS280-4-4	250/185	337.1	380	50		39200	8810 51600 11600	93.7	0.89		1.7	2	



TUBO DI ASPIRAZIONE - TUYAU D'ASPIRATION - SUCTION PIPE

TIPO TYPE	A	B	C	Fori Troues Holes		D	Peso in Kg Poids en Kg Weight in Kg
				∅	N.		
TA3A/1	1000						10
TA3A/2	2000	140	120		5	89	16
TA3A/3	3050						22
TA4A/1	1000			11.5			13
TA4A/2	2000	166	145			114	23
TA4A/3	3050						33
TA5A/1	1000				6		17
TA5A/2	2000	190	167	13.5		133	30
TA5A/3	3050						43
TA6A/1	1000						25
TA6A/2	2000	234	206	16		168	41
TA6A/3	3050						57
TA8A/1	1000				8		37
TA8A/2	2000	288	260	18		219	61
TA8A/3	3050						85





LINEA D'ASSE - LIGNE D'ARBRE - LINESHAFT

TIPO TYPE TYPE	A	B	C	D	E	F	G	Peso in Kg Poids en Kg Weight in Kg
LA3/20		140	95	89	140	95		32
LA3/24							100	34
LA4/20								43
LA4/24		166	122	114	166	122		45
LA4/27							112	48
LA5/20								52
LA5/24		190	140	133	190	140		55
LA5/27								58
LA5/30							112	62
LA6/24	3050						100	70
LA6/30		234	176	168	234	176		76
LA6/35							112	83
LA7/30							112	86
LA7/35		258	200	194	258	200		92
LA7/40							125	99
LA8/35								110
LA8/40		288	226	219	288	226		117
LA8/45							140	126
LA10/35							125	171
LA10/40		355	285	273	355	285		178
LA10/45								187
LA10/55								174
LA12/45	2500	415	330				140	186
LA12-14/45		445	360	323	415			188
LA12/55		415	330					193
LA12-14/55		445	360					195

Auto-Booster Pump series are with build-up with centrifugal or self-priming electropumps. Each set, ready for the immediately installation, is made by an electropump, a pre-rated and adjustable pressure switch, pressure gauge, connector (and eventually a flexible hose with s.s. Sheath), membrane tank and cable with plug. The set specification and performances are related to the adapted electropump model, tank capacity and pressure switch rating.



AutoJETP60/80/100



AutoSDB60/70/80



AutoJET60/80/100



AutoSDP255/355



AutoJETS60/80/100

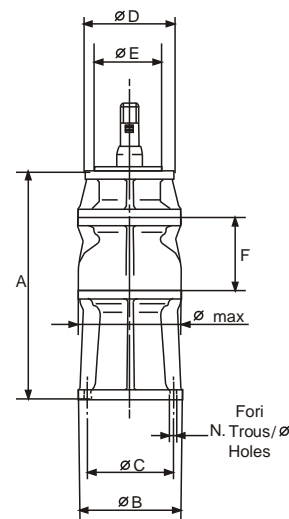


AutoPm16

Auto-Booster Pump series:

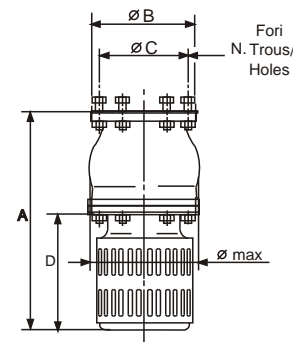
- Peripheral pump series with spherical type tank with electronic-magnetic pressure switch.
- Self-priming pump series with cylindrical type tank (inox type available) with electronic-magnetic or automatic pressure control.

CORPO POMPA - CORPS DE POMPE - BOWL ASSEMBLY



Diametro nom. Pozzo Nominal well diameter	TIPO TYPE TYPE	A	B	C	Fori Trous Holes		D	E	F	Ø Max	Peso in Kg Poids en Kg Weight in Kg									
					Ø	N.					Peso per il 1° stadio Poids pour le 1er étage Weight for the 1st stage	X*								
6 ¹¹	P6L/3	360	140	120	5	140	95	115	142	16	16	5.5								
	P6M/3																		6	
	P6G/3																		15.5	5.5
	P6C/3										25.5									
7 ¹¹	P7L/3	400	166	145	11.5	6	166	122	135	168	26	8.3								
	P7L/4																			
	P7C/4																			27
	P7C/5																			
8 ¹¹	P8B/3	245	140	120	5	140	95	115	190	18										
	P8F/4	360	166	145		166	122		190	27	9									
	P8L/5								140											
	P8C/5	425	190	167	13.5	6	190	140		29	11									
10 ¹¹	P9C/6	480						165	234	41	19									
	P10C/6-P10F/6	485	234	206	16		234	176	175	240	49	21								
	P12C/7						258	200			82									
12 ¹¹	P12C/8	555	288	260	18	8			205	292	83.5	39								
	P14C/8						288	226			116									
14 ¹¹	P14C/10	615	326	293				245	342	118	61									
16 ¹¹	P16C/10	670	355	322	20	10			270	384	162									
18 ¹¹	P16D/10	667	415	380	18	12	355	285	300	427	164	78								
20 ¹¹	P18C/14-18	733	442	-	-	-	445	360	410	486	262	158								

VALVOLA DI FONDO - CLAPET DE PIED - FOOT VALVE



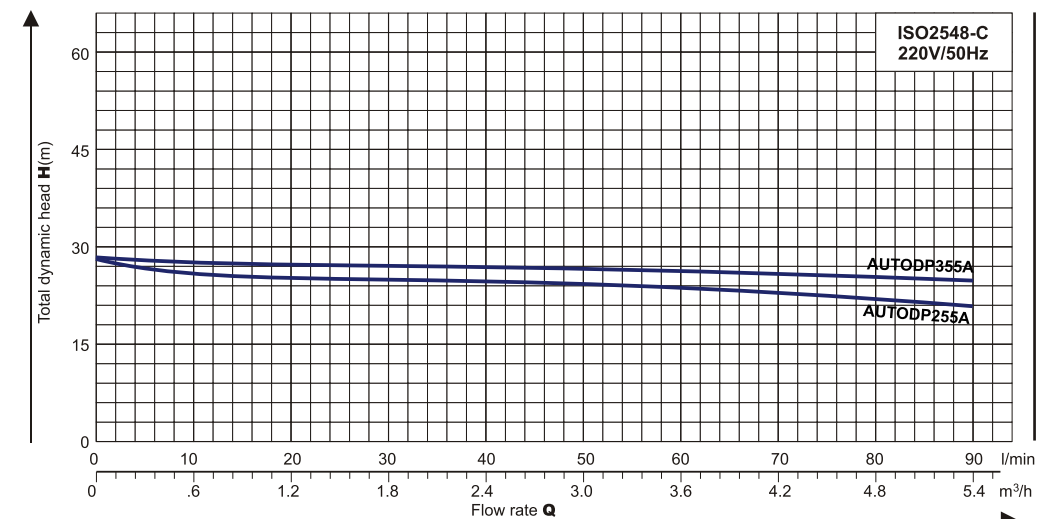
TIPO TYPE TYPE	A	B	C	D	Viti Vis Screw		Ø Max	Peso in Kg Poids en Kg Weight in Kg	
					Ø	N.			
VFA3	316	140	120	178			5	142	7.5
VFA4	326	166	145	168	M10			166	10
VFA5	410	190	167	232	M12		6	190	14.5
VFA6	461	234	206	239	M14			240	24.5
VFA8	574	288	260	254	M16		8	290	44
VFA9	665	326	293	293	M18			338	65

DESIGN FEATURES

- Pump body: cast iron
- Diffusers: PPO or "General Electric" Noryl®
- Impeller: Brass or PPO or "General Electric" Noryl®
- Motor shaft: AISI1045.
- Mechanical seal: NBR/Graphite/Ceramic
- Pressure Switch: Model SK-2 (ON:1.5bar - OFF:3.0bar).
- 24 Litres Cylindrical Tank with membrane.
- Pressure Gauge: 6 bar.
- 3 way brass Connector.

OPERATING LIMITS

- Maximum operating pressure: 8 bar.
- Maximum ambient temperature +40°C.
- Liquid temperature up to +60°C.
- Maximum altitude +1000m.



PERFORMANCE DATA

TYPE	POWER HP KW	µF	AMPERE I MAX.	CAPACITY									DNA	DNM	N.W (Kg)	PACKAGE DIMENSION L X W X H(mm)		
				Q														
				m³/h	l/min	0	10	20	30	45	60	75				90		
AUTODP255A	0,75	0,55	16	3,3	28	25,5	25,2	25	24,6	24	22,5	21	1 1/4"	1"	16,5	460	220	230
AUTODP355A	1	0,75	20	3,7	28	27,5	27,3	27,1	26,7	26	25,4	25	1 1/4"	1"	17,6	460	220	230



AUTOSDP



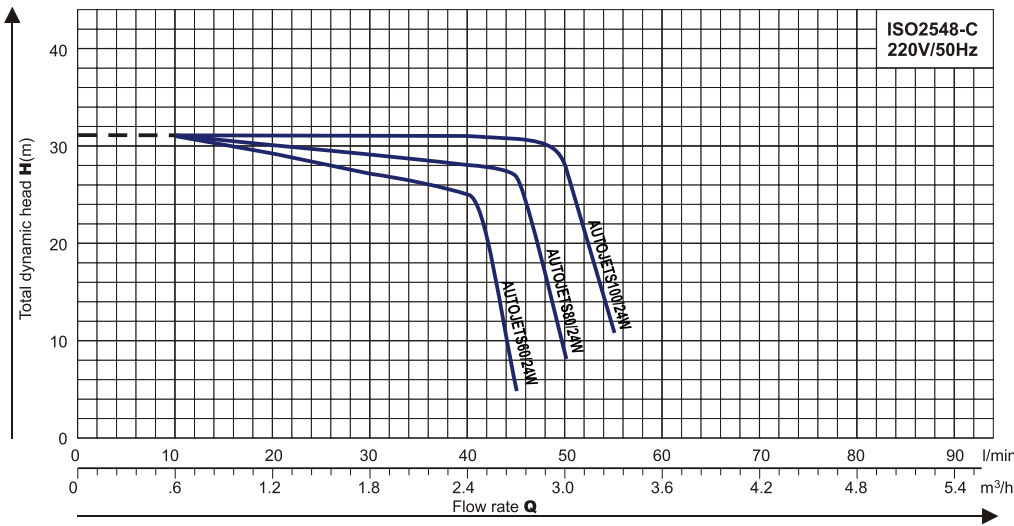
AUTOJETS

DESIGN FEATURES

- Pump body: AISI304 stainless steel.
- Impeller: Brass or "General Electric" Noryl®
- Ejector union: PPO or "General Electric" Noryl®
- Motor shaft: AISI1045
- Mechanical seal: NBR/Graphite/Ceramic
- Pressure Switch: Model SK-2 (ON:1.38bar - OFF:2.76bar).
- 24 Litres Cylindrical Tank with membrane.
- Pressure Gauge: 6 bar.
- 3 way brass Connector.

OPERATING LIMITS

- Suction lift up to 9 m with foot valve.
- Maximum operating pressure: 8 bar.
- Maximum ambient temperature +40°C.
- Liquid temperature up to +60°C.
- Maximum Altitude + 1000m.



PERFORMANCE DATA

TYPE	POWER		μF	AMPERE I MAX.	CAPACITY								DNA	DNM	N.W (Kg)	PACKAGE DIMENSION L X W X H(mm)	
	HP	KW			Q												
					m³/h	0	10	20	30	40	45	50					55
AUTOJETS60/24W	0,50	0,37	12	3,2	0	0,6	1,2	1,8	2,4	2,7	3,0	3,3	1"	1"	-	-	-
AUTOJETS80/24W	0,75	0,55	16	3,7	0	0,6	1,2	1,8	2,4	2,7	3,0	3,3	1"	1"	-	-	-
AUTOJETS100/24W	1	0,75	20	4,3	0	0,6	1,2	1,8	2,4	2,7	3,0	3,3	1"	1"	-	-	-



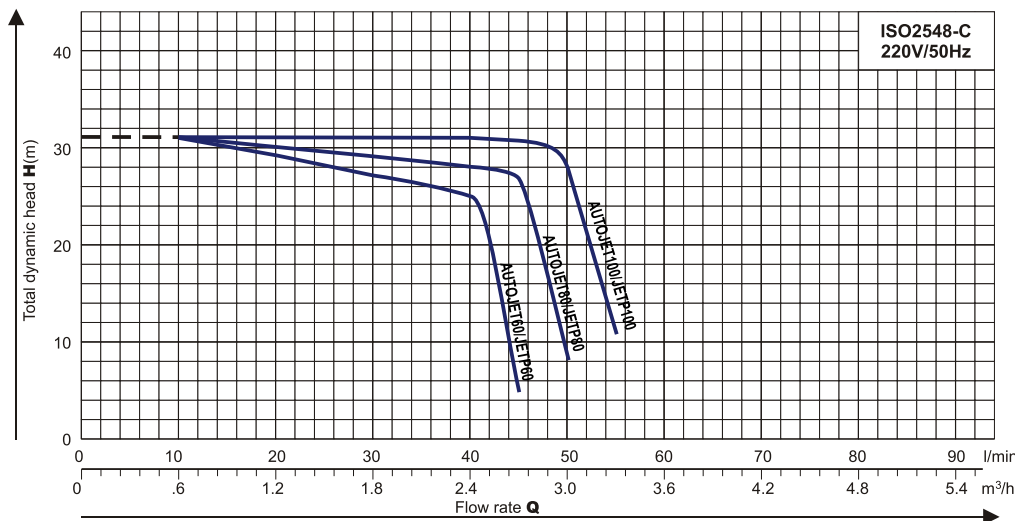
AUTOJET/JETP

DESIGN FEATURES

- Impeller: Brass or "General Electric" Noryl
- Ejector union: PPO or "General Electric" Noryl
- Motor shaft: AISI1045
- Mechanical seal: NBR/Graphite/Ceramic
- Pressure Switch: Model SK-2 (ON:1.38bar - OFF:2.76bar).
- 24 Litres Cylindrical Tank with membrane.
- Pressure Gauge: 6 bar.
- 3 way brass Connector.

OPERATING LIMITS

- Suction lift up to 9 m with foot valve.
- Maximum operating pressure: 8 bar.
- Maximum ambient temperature +40°C.
- Liquid temperature up to +60°C.
- Maximum Altitude + 1000m.



PERFORMANCE DATA

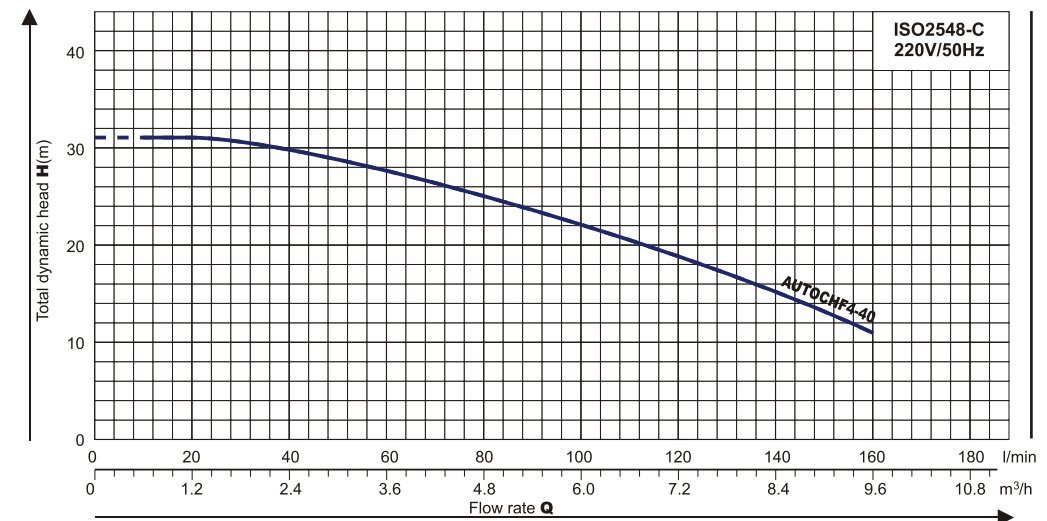
TYPE	POWER		μF	AMPERE I MAX.	CAPACITY								DNA	DNM	N.W (Kg)	PACKAGE DIMENSION L X W X H(mm)	
	HP	KW			Q												
					m³/h	0	10	20	30	40	45	50					55
AUTOJET60JETP60	0,50	0,37	12	3,2	0	0,6	1,2	1,8	2,4	2,7	3,0	3,3	1"	1"	-	-	-
AUTOJET80JETP80	0,75	0,55	16	3,7	0	0,6	1,2	1,8	2,4	2,7	3,0	3,3	1"	1"	-	-	-
AUTOJET100JETP100	1	0,75	20	4,3	0	0,6	1,2	1,8	2,4	2,7	3,0	3,3	1"	1"	-	-	-

DESIGN FEATURES

- Pump body: AISI304 stainless steel.
- Impeller: AISI304 stainless steel.
- Diffuser: AISI304 stainless steel.
- Suction casing: cast iron.
- Motor shaft: AISI304 Stainless steel.
- Mechanical seal: NBR/Graphite/Ceramic.
- Pressure Switch: Model SK-2 (ON:1.38bar - OFF:2.76bar).
- 24 Litres AISI304 stainless steel Cylindrical Tank with membrane.
- Pressure Gauge: 6 bar.
- 5 way brass Connector.

OPERATING LIMITS

- Suction lift up to 6-8 m with foot valve.
- Maximum operating pressure: 8 bar.
- Maximum ambient temperature +40°C.
- Liquid temperature up to +60°C.
- Maximum Altitude + 1000m



PERFORMANCE DATA

TYPE	POWER		μF	AMPERE I MAX.	CAPACITY											DNA	DNM	N.W (Kg)	PACKAGE DIMENSION L X W X H(mm)
	HP	KW			Q														
					m³/h	0	20	40	60	80	100	120	140	160					
AUTOCHF4-40	1,0	0,75	20	5,0	0	1,2	2,4	3,6	4,8	6,0	7,2	8,4	9,6	11"	1"	12,5	395	180	215



AUTOSHIF

HIGH PRESSURE CLEANER

- Induction Motor
- Cold Water Feed
- AUTO Stop: Available / Without
- Accessories: Spray Gun, Water outlet hose and Soap bottle.

Induction Motor

MODEL	APW-HA-60 APW-HA-60P	APW-HA-70 APW-HA-70P	APW-HA-90 APW-HA-90P	APW-HA-100 APW-HA-100P
Pressure	65bar(940psi)	70bar(1000psi)	90bar(1300psi)	100bar(1450psi)
Max Pressure	130bar	140bar	160bar	160bar
Flow	6L/min(1.6GPM)	6L/min(1.6GPM)	6L/min(1.6GPM)	6L/min(1.6GPM)
Motor	1100W	1200W	1500W	1700W
Voltage	230V-50Hz	230V-50Hz	230V-50Hz	230V-50Hz
	120V-60Hz	120V-60Hz	120V-60Hz	120V-60Hz
Weight	11Kgs	11.5Kgs	12.5Kgs	13Kgs
Dimensions	43X36X29cm	43X36X29cm	43X36X29cm	43X36X29cm
Container	632/20'	632/20'	632/20'	632/20'
Loading	1289/40'	1289/40'	1289/40'	1289/40'

- Induction Motor / Carbon Brush Motor .
- Cold Water Feed
- AUTO Stop: Available / Without
- Accessories: Spray Gun, Water outlet hose and Soap bottle.

Induction Motor

MODEL	QL-1200F QL-1200FP	QL-2100F QL-2100FP	QL-3100F QL-3100FP
Pressure	65bar(940psi)	70bar(1000psi)	90bar(1300psi)
Max Pressure	130bar	140bar	160bar
Flow	6L/min	6.6L/min(1.7GPM)	6L/min(1.6GPM)
Motor	1100W	1200W	1500W
Voltage	230V-50Hz	230V-50Hz	230V-50Hz
	120V-60Hz	120V-60Hz	120V-60Hz
Weight	11Kgs	12Kgs	13Kgs
Dimensions	52X32X31cm	52X32X31cm	52X32X31cm
Container	539pcs/20'	539pcs/20'	539pcs/20'
Loading	1078pcs/40'	1078pcs/40'	1078pcs/40'

- Induction Motor / Carbon Brush Motor Cold Water Feed.
- Cold Water Feed
- AUTO Stop: Available / Without
- Accessories: Spray Gun, Water outlet hose and Soap bottle.

Induction Motor

MODEL	QL-1200E QL-1200EP	QL-2100E QL-2100EP	QL-3100F QL-3100FP
Pressure	65bar(940psi)	70bar(1000psi)	90bar(1300psi)
Max Pressure	130bar	140bar	160bar
Flow	6L/min	6.6L/min(1.7GPM)	6L/min(1.6GPM)
Motor	1100W	1200W	1500W
Voltage	230V-50Hz	230V-50Hz	230V-50Hz
	120V-60Hz	120V-60Hz	120V-60Hz
Weight	11Kgs	11Kgs	12Kgs
Dimensions	51X31X27cm	51X31X27cm	51X31X27cm
Container	669/20'	669/20'	669/20'
Loading	1360/40'	1360/40'	1360/40'

- Induction Motor/
- Cold Water Feed
- AUTO Stop: Available / Without
- Accessories: Spray Gun, Water outlet hose and Soap bottle.

Induction Motor

MODEL	QL-1200D	QL-2100D	QL-3100D
Pressure	65bar(940psi)	70bar(1000psi)	90bar(1300psi)
Max Pressure	130bar	140bar	160bar
Flow	6L/min	6.6L/min(1.7GPM)	6L/min(1.6GPM)
Motor	1100W	1200W	1500W
Voltage	230V-50Hz	230V-50Hz	230V-50Hz
	120V-60Hz	120V-60Hz	120V-60Hz
Weight	11Kgs	11Kgs	12Kgs
Dimensions	38X27X25cm	38X27X25cm	38X27X25cm
Container	1008pcs/20'	1008pcs/20'	1008pcs/20'
Loading	2122pcs/40'	2122pcs/40'	2122pcs/40'



POWER SPRAYER PUMP



3WZ-22WB

MODEL		3WZ-22WB
Pistons X Diamete X Storke (mm)		3 X 22 X 18
SPRAY	RPM	800 ~ 1000
	Suction (L/min)	16.5 ~ 20.5
	Pressure(mpa)	1.5 ~ 3.5
IRRIGATION	RPM	1200 ~ 1400
	Suction (L/min)	25 ~ 29
	Pressure(mpa)	1.5 ~ 3.5
REQUIRE POWER (HP)		1.5 ~ 2.5
CARTON SIZE:		40.5 X 30 X 34 CM
WEIGHT		12.5KGS



3WZ-22WC

MODEL		3WZ-22WC
Pistons X Diamete X Storke		3 X 22 X 18
SPRAY	RPM	800 ~ 1000
	Suction (L/min)	16.5 ~ 20.5
	Pressure(mpa)	1.5 ~ 3.5
IRRIGATION	RPM	1200 ~ 1400
	Suction (L/min)	25 ~ 29
	Pressure(mpa)	1.5 ~ 3.5
REQUIRE POWER (HP)		1.5 ~ 2.5
CARTON SIZE:		39 X 30 X 33 CM
WEIGHT		12.5KGS



3WZ-30WD

MODEL		3WZ-30WD
Pistons X Diamete X Storke		3 X 30 X 20
SPRAY	RPM	700 ~ 800
	Suction (L/min)	29 ~ 34
	Pressure(mpa)	1.5 ~ 3.5
IRRIGATION	RPM	1000 ~ 1200
	Suction (L/min)	42 ~ 52
	Pressure(mpa)	1.0
REQUIRE POWER (HP)		3 ~ 5
CARTON SIZE:		43 X 32 X 36 CM
WEIGHT		15KGS



3WZ-30WB

MODEL		3WZ-30WB
Pistons X Diamete X Storke		3 X 30 X 20
SPRAY	RPM	700 ~ 800
	Suction (L/min)	29 ~ 34
	Pressure(mpa)	1.5 ~ 3.5
IRRIGATION	RPM	1000 ~ 1200
	Suction (L/min)	42 ~ 52
	Pressure(mpa)	1.0
REQUIRE POWER (HP)		3 ~ 5
CARTON SIZE:		43 X 32 X 36 CM
WEIGHT		15KGS

MODEL		3WZ-30WC
Pistons X Diamete X Storke		3 X 30 X 20
SPRAY	RPM	700 ~ 800
	Suction (L/min)	29 ~ 34
	Pressure(mpa)	1.5 ~ 3.5
IRRIGATION	RPM	1000 ~ 1200
	Suction (L/min)	42 ~ 52
	Pressure(mpa)	1.0
REQUIRE POWER (HP)		3 ~ 5
CARTON SIZE:		43 X 32 X 36 CM
WEIGHT		15KGS



3WZ-30WC

MODEL		3WZ-70W
Pistons X Diamete X Storke		3 X 32 X 32
SPRAY	RPM	500 ~ 600
	Suction (L/min)	38.5 ~ 46
	Pressure(mpa)	1.5 ~ 3.5
IRRIGATION	RPM	800 ~ 1000
	Suction (L/min)	62 ~ 77
	Pressure(mpa)	1.0
REQUIRE POWER (HP)		2 ~ 7
CARTON SIZE:		45 X 34 X 46 CM
WEIGHT		24KGS



3WZ-70W

MODEL		3WZ-90W
Pistons X Diamete X Storke		3 X 33.5 X 35
SPRAY	RPM	500 ~ 600
	Suction (L/min)	46 ~ 55.5
	Pressure(mpa)	1.5 ~ 3.5
IRRIGATION	RPM	800 ~ 1000
	Suction (L/min)	74 ~ 92.5
	Pressure(mpa)	1.0
REQUIRE POWER (HP)		3 ~ 9
CARTON SIZE:		50 X 34.5 X 503 CM
WEIGHT		31KGS



3WZ-90W

MODEL		3WZ-120W
Pistons X Diamete X Storke		3 X 380 X 38
SPRAY	RPM	500 ~ 600
	Suction (L/min)	65 ~ 78
	Pressure(mpa)	1.5 ~ 3.5
IRRIGATION	RPM	800 ~ 900
	Suction (L/min)	103 ~ 116
	Pressure(mpa)	1.0
REQUIRE POWER (HP)		5 ~ 10
CARTON SIZE:		60 X 42 X 55 CM
WEIGHT		41KGS



3WZ-120W



- 24SF, spherical tank
- pressure gauge, back connection
- pressure switch (1.4-2.8bar)
- 3-way connector
- foot valve



- 24CL, cylindrical tank
- pressure gauge, back connection
- pressure switch (1.4-2.8bar)
- 3-way connector
- foot valve
- 1" gas flexible hose



SPHERICAL TANK
(WITH INTERCHANGEABLE MEMBRANE)

MODEL	CONNECTION	MEMBRANE	CAPACITY
ST-24L	1"	For alimentary liquids	24 litres
CT-24L	1"	For alimentary liquids	24 litres
CT-60L	1"	For alimentary liquids	60 litres
CT-100L	1"	For alimentary liquids	100 litres
VT-4L	1"	For alimentary liquids	4 litres
VT-8L	1"	For alimentary liquids	8 litres
VT-16L	1"	For alimentary liquids	16 litres
PT-2L	1 1/4"	For alimentary liquids	2 litres



MODEL	VOLTAGE	FREQUENCY	CURRENT	CONNECTIONS	PROTECTION
PS-01	220-240V 110-115V	50/60Hz	10A	1"x1"	IP 65

Electric device for starting and stopping small single phase pumps, when the tap is opened and closed. It adjusts flow rate and pressure, keeping them constant. This device automatically stops the pump in the absence of water.



MODEL	VOLTAGE	FREQUENCY	CURRENT	CONNECTIONS	PROTECTION
PS-01A	220-240V 110-115V	50/60Hz	10A	1"x1"	IP 65





PS-02A	PS-02B	PS-02C
■ 1,4-2,8bar	■ 1,4-2,8bar	■ 1,4-2,8bar
■ 2,1-3,5bar	■ 2,1-3,5bar	■ female/male
■ 2,8-4,3bar	■ 2,8-4,3bar	
■ female/male	■ 3,5-5,6bar	
	■ 4,9-7,2bar	
	■ female/male	

PS/03A	PS/03B
■ 0,7-1,6bar	■ 0,7-1,6bar
■ 1,0-1,6bar	■ 1,0-1,6bar
■ 1,1-1,8bar	■ 1,1-1,8bar
■ 1,6-2,6bar	■ 1,6-2,6bar
■ female/male	■ female/male

RC RUNNING CAPACITOR WITH ROUND SHAPE

MODEL	VOLTAGE	FREQUENCY
8UF	250V/450V	50/60Hz
10UF	250V/450V	50/60Hz
12.5UF	250V/450V	50/60Hz
20UF	250V/450V	50/60Hz
25UF	250V/450V	50/60Hz
30UF	250V/450V	50/60Hz
40UF	250V/450V	50/60Hz
50UF	250V/450V	50/60Hz
60UF	250V/450V	50/60Hz

RG PRESSURE GAUGE

MODEL SIZE	PG-P	PG-SS	PG-S
40mm	PG-P40	PG-SS40	PG-S40
50mm	PG-P50	PG-SS50	PG-S50

- THREE TYPE TYPE SHELL:
(1) PG-P:plastic (2) PG-SS:stainless steel (3) PG-S:steel
- TWO TYPE CONNECTION: BACK/BOTTOM CONNECTION
- THE CONNECTION HAVE TWO TYPE:(1) G1/4" (2) M10 x 1
- FOR 40MM GAUGE,THE SCALE IS 0-6 BAR
- FOR 50MM GAUGE,THE SCALE IS 0-10 BAR OR 0-6 BAR

MS MECHANICAL SEAL

MODEL	SHAFT DIA
MS301-12	12mm
MS301-14	14mm
MS155-15	15mm
MS155-17	17mm
MS155-20	20mm
MS155-22	22mm
MS155-24	24mm

- Graphite to cermic or graphite to SiC
- stainless steel spring and cover



FLOAT SWITCH

MODEL	VOLTAGE	CURRENT	AMBIENT TEMPERATURE
FLO-1	220-240V	8A	0-80°C
FLO-2	220-240V	8A	0-80°C



FH ANTI VIBRATION FLEXIBLE HOSE WITH ELBOW

MODEL	CONNECTION	LENGTH
Fh50	1"x1"	50cm
Fh60	1"x1"	60cm
Fh100	1"x1"	100cm



FM ANTI VIBRATION FLEXIBLE HOSE WITH ELBOW

MODEL	HOSE	CONNECTIONS	LENGTH
FM-F1"XM1/2" X ø19X35	3/4" gas	1"x1" gas	350mm
FM-F1"XM1/2" X ø19X45	3/4" gas	1"x1" gas	450mm
FM-F1"XM1/2" X ø19X52	3/4" gas	1"x1" gas	520mm
FM-F1" Xø33X52	1" gas	1"x1" gas	520mm
FM-F1" Xø33X58	1" gas	1"x1" gas	580mm
FM-F1" Xø27X60	1" gas	1"x1" gas	600mm
FM-F1/2"XM1/4" Xø13X45	1/2" gas	1"x1" gas	450mm





FV FOOT VALVES

MODEL	CONNECTION
FV 0.5	1/2" gas
FV 0.75	3/4" gas
FV 1	1" gas
FV 1.25	1 1/4" gas
FV 1.5	1 1/2" gas
FV 2	2" gas



MODEL	CONNECTION(in and out)	CONNECTION(flexible hose)
R3-G1"X40X70	1" gas	1" gas

3 WAY CONNECTORS



R4-G1X4 0X70	1" gas	1" gas
R4-G1/2X 65X95	1" gas	1/2" gas

4 WAY CONNECTORS

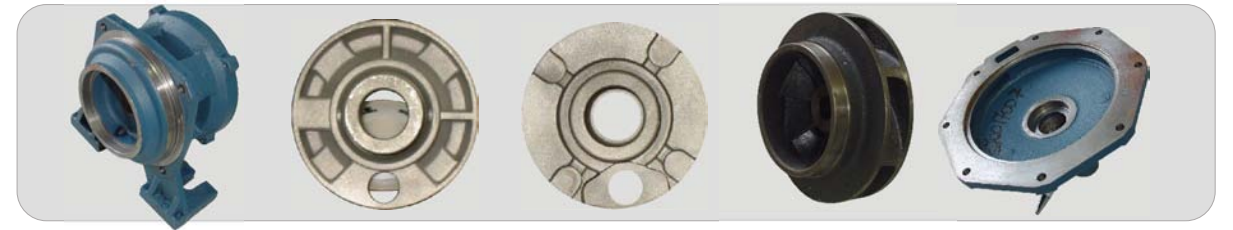


R5-G1/4X 50X80	1" gas	1/4" gas
R5-G1X5 0X80	1" gas	1" gas
R5-G1X6 0X92	1" gas	1" gas
R5-G1X8 0X110	1" gas	1" gas
R5-G1/2X 85X115	1" gas	1/2" gas

5 WAY CONNECTORS

CV CHECK VALVES

MODEL	CVA1/CVB1	CVA1,25/CVB1,25	CVA1,5/CVB1,5	CVA2/CVB2	CVA3/CVB3
CONNECTION	1"	1 1/4"	1 1/2"	2"	3"



GRANDEZZE GEOMETRICHE - GEOMETRICAL UNITS - GRANDEURS GEOMETRIQUES

LUNGHEZZA - LENGTH - LONGUEUR

UNITA - UNIT - UNITE	mm	cm	dm	m	km	in	ft	yd	stat.mile	naut.mile
Millimetro Millimeter Millimetre	1	0,1	0,01	0,001	-	0,03937	0,003281	0,001093	-	-
Centimetro Centimeter Centimetre	10	1	0,1	0,01	0,00001	0,3937	0,03281	0,010936	-	-
Dentimetro Dentimeter Decimetre	100	10	1	0,1	0,0001	3,937	0,3281	0,10936	-	-
Metro Meter Metre	1000	100	10	1	0,001	39,37	3,281	1,0936	0,000621	0,000539
Chilometro Kilometer Kilometre	1000000	100000	10000	1000	1	39370	3281	1093,6	0,62137	0,5396
Inch (pollice) Inch Inch (pouce)	25,4	2,54	0,254	0,0254	0,000025	1	0,0833	0,0277	-	-
Foot (pie) Foot Foot (pied)	304,8	30,48	3,048	0,3048	0,000304	12	1	0,333	-	-
Yard (yarda) Yard Yard (yard)	914,4	91,44	9,144	0,9144	0,000914	36	3	1	0,000567	0,000493
Statute mile (miglio terr.) Statute mile Statute mile (mille terrestre) ..	1609300	160930	16093	1609,3	1,6093	63360	5280	1760	1	0,869
Nautical mile (miglio mar.) Nautical mile Nautical mile (mille marin)	1853180	185318	18531,8	1853,18	1,85318	72960	6080	2027	1,152	1

SUPERFICIE - SQUARE MEASURE - SUPERFICIE

UNITA - UNIT - UNITE	cm ²	m ²	ha	km ²	sq. in.	sq. ft.	sq. yd.	sq. mile	acre
Centimetro quadrato Square centimeter Centimetre carre	1	0,0001	-	-	0,155	-	-	-	-
Metro quadrato Square meter Metre carre	10000	1	0,0001	-	1550	10764	1,196	-	-
Ettaro Hectare Hectare	-	10000	1	0,01	-	-	11960	0,003861	2,471
Chilometro quadrato Square kilometer Kilometre carre	-	1000000	100	1	-	-	-	0,3861	247,1
Square inch (pollice quadr.) Square inch Square inch (pouce carre)	6,452	0,000645	-	-	1	-	-	-	-
Square foot (pie) Square foot Square foot (pied carre)	929	0,0929	-	-	144	1	0,1111	-	-
Square yard (yarda quadr.) Square yard Square yard (yard carre)	8361	0,8361	-	-	1296	9	1	-	-
Square mile (miglio quadr.) Square mile Square mile (mille carre)	-	2590000	259	2,59	-	-	-	1	640
Acre (acro) Acre Acre (acre)	-	4047	0,4047	-	-	43560	-	0,0015	1

VOLUME - VOLUME - VOLUME

UNITA - UNIT - UNITE	mm ³	cm ³	m ³	cu. in.	cu. ft.	cu. yd.
Millimetro cubo Cubic millimeter Millimetre cube	1	0,001	-	0,000061	-	-
Centimetro cubo Cubic centimeter Centimetre cube	10000	1	-	0,061024	-	-
Metro cubo Cubic meter Metre cube	-	1000000	1	61024	35,315	1,308
Cubic inch (pollice cubico) Cubic inch Cubic inch (pouce cube)	16390	16,39	-	1	0,00058	0,000021
Cubic foot (pie) Cubic foot Cubic foot (pied cube)	-	28300	0,0283	1728	1	0,037
Cubic yard (yarda cubica) Cubic yard Cubic yard (pied cube)	-	764552	0,764552	46656	27	1

MISURE DI CAPACITA STRANIERE COMPARATE ALLITRO
FOREIGNDRY LIQUID MEASURES ASCOMPARED WITH THE LITER
MESURES DE CAPACITE ENTRANGERES COMPAREES AU LITRE

UNITA UNIT UNITE	Ragguaglio Comparison Correction	UNITA UNIT UNITE	Ragguaglio Comparison Correction
Imperial fluid ounce (oncia ingl. Per liquidi) Imperial fluid ounce (once anglaise pour liquides)	0,0284 litri liters litres	litro	35,2 Imp. ft. oz.
U.S. fluid ounce (oncia amer. Per liquidi) U.S. fluid ounce (once anglaise pour liquides)	0,0295 litri liters litres	litro	33,81 U.S. ft. oz.
Imperial pint (pinta inglese) Imperial pint (Pinte anglaise)	0,568 litri liters litres	litro	1,76 Imp. pint.
U.S. gallon (gallone americano) U.S. gallon (gallon americane)	3,785 litri liters litres	litro	0,2642 U.S. gal.
Imperial gallon (gallone inglese) Imperial gallon (gallon anglais)	4,546 litri liters litres	litro	0,22 Imp. gal.
U.S. bushel (Stajo americano) U.S. bushel (buisseau americain)	35,24 litri liters litres	litro	0,0284 U.S. bu.
Imperial bushel (Stajo inglese) Imperial bushel (buisseau anglais)	36,35 litri liters litres	litro	0,0275 Imp. bu.
U.S. barrel (barile americano) U.S. barrel (baril americain)	119,22 litri liters litres	litro	0,0083 U.S. bbl.
Imperial barrel (barile inglese) Imperial barrel (baril anglais)	163,65 litri liters litres	litro	0,00611 Imp. Bbl.

CENNI SULLE POMPE CENTRIFUGHE
HINTS ON CENTRIFUGAL PUMPS
NOTICES SUR LES POMPES CENTRIFUGES

Calcolo della potenza assorbita pa
(noti):
Calculation of absorbed power pa
(knowing):
Calcul de la puissance absorbee pa:

Q - portata in l/s
Q - capacity l/s
Q - debit en litres/s

H - preval. man. tot. In m
H - Total Manometric Head in m
H - hauteur manometrique tot. en m

- rendimento
- Efficiency
- rendement

- densita in Kg/dm³
- Density in Kg/dm³
- densite en Kg/dm³

$$Pa = \frac{Q \cdot H}{102} \quad [kw]$$

Calcolo del rendimento (noti):
Calculation of efficiency (knowing):
Calcul du rendement:

Q - portata in l/s
Q - capacity l/s
Q - debit en litres/s

H - preval. man. tot. in m
H - Total Manometric Head in m
H - hauteur manometrique tot. en m

Pa - potenza assorbita in kw
Pa - Absorbed power in kw
Pa - puissance absorbee en kw

- densita in Kg/dm³
- Density in Kg/dm³
- densite en Kg/dm³

$$\eta = \frac{Q \cdot H}{102 \cdot Pa}$$

Curve di funzionamento:
performance curves:
Courbes de fonctionnement:

Fra le curve di funzionamento di una pompa centrifuga a varie velocita, purché non intervengano fenomeni di cavitazione, sussiste la legge di affinita che possiamo così praticamente esprimere: le curve Q-H e Q-Pa a n' giri si cambiano in Q'-H' e Q'-Pa' a n' giri.

Secondo:
Provided no cavitation occurs, the performance curves of a variable-speed centrifugal pump are subject to the affinity law which we can practically state as follows:
Curves Q-Hand Q-Pa n. revolutions change to Q'-H' and Q'-Pa' at n' revolutions according to:
Entre les courbes de fonctionnement d'une pompe centrifuge a differentes vitesses, a condition que n' intervient pas des phenomenes de cavitation, exista la loi d'affinite que nous indiquons comme suit:
les courbes Q-Hand Q-Pa n. Tours, changent en Q'-H' et Q'-Pa' a n' Tours.
Selon:

$$Q' = \left(\frac{n'}{n}\right) \cdot Q \quad H' = \left(\frac{n'}{n}\right)^2 \cdot H$$

$$Pa' = \left(\frac{n'}{n}\right)^2 \cdot Pa$$

PRESSIONE E TENSIONE - PRESSIONE AND VOLTAGE - PRESSION ET TENSION

UNITA UNIT UNITE	Ragguaglio Comparison Correction
$1 \text{ Kg/dm}^2 = 9.81 \cdot \frac{N}{\text{cm}^2} = 0.981 \text{ bar} = 98100 \text{ Pa}$	$1 \text{ Pa} = 1 \cdot \frac{N}{\text{m}^2} = 1 \text{ Pascal}$
<p>1 Kg/dm² = 1 at = 10000 Kg/dm² = at mosfera tecnica = 10 m col. d acqua a 4°C = 735,56 Torr(mm Hg a 0°C) 1 Kg/dm² = 1 at = 10000 Kg/dm² = Metric at mosphaera = 10 m. water column at 4°C = 735,56 Torr(mm Hg a 0°C) 1 Kg/dm² = 1 at = 10000 Kg/dm² = At mosphere technique = 10 m colonne d eau a 4°C = 735,56 Torr(mm Hg a 0°C)</p> <p>1 lb pollice quadro = 1 psi = 0,0703 Kg/dm² 1 psi = 0,0703 Kg/dm² 1 live pour carre = 1 psi = 0,0703 Kg/dm²</p>	<p>1 Kg/dm² = 14,2 psi 1 Kg/dm² = 14,2 psi 1 Kg/dm² = 14,2 psi</p>

La velocita di rotazione (giri al minuto primo) del motor a corrente alternata monolase o trifase a vuoto,e:
 The rotation speed (revolutions per minute) of no - load single - phase or three - phase alternating current molors is:
 La vitesse de rotation (tours/minute) des moteurs a courant alternatif ou triphase a vide,est:

$$n = \frac{60 \times f}{p}$$

n = giri al 1
 n = r.p.m.
 n = tours/min

f = frequenza [Hz]
 f = frequency [Hz]
 f = frequence [Hz]

p = numero di paia di poli.
 p = couple of poles number.
 p = nombre couple de poles.

Velocita teorica dei motori elettrici - Theoretical speed of electric motors - Viteorique des moteurs electriques

FREQUENZA Hz FREQUENCY [Hz] FREQUENCE [Hz]	2 POLI 2 POLES 2 POLES	4 POLI 4 POLES 4 POLES	6 POLI 6 POLES 6 POLES	8 POLI 8 POLES 8 POLES
50 60	3000 3600	1500 1800	1000 1200	750 900

La velocita effettiva a pieno carico e inferiore dal 2% al 7% di quella teorica.

Full - load true speed is lower by 2% to 7% than theoretical speed.
 Vitesse theorique des moteurs electriques.

Intensita di corrente assorbita a pieno carico

Intensity of current absorbed at full load
 Intensite de courant absorbe en pleine charge

Nei motori a corrente continua:

In direct current motors:
 Pour les moteurs a courant continu:

$$I = \frac{1000 \times Pr}{V \times X}$$

I = Ampere assorbiti [A]
 I = Absorbed amperes[A]
 I = Ampere absorbes [A]

Pr = Potenza resa del motore [kW]
 Pr = Motor rated power [kW]
 Pr = Puissances restituee par moteur [kW]

V = Tensione [V]
 V = Current voltage [V]
 V = Tension [V]

= Rendimento del motore (75 + 95% dai piccoli ai grossi motori).
 = Motor efficiency (75 + 95% from small-size to large-size motors).
 = Rendement du moteur (75 + 95% des petit aux grands moteurs).

Nei motori a corrente alternata monofase:

In single-phase alternating current motors:
 Pour les moteurs a courant alternatif monophasé:

$$I = \frac{1000 \times Pr}{V \times \cos}$$

Cos = fattore di potenza (0,84 + 0,90 dai piccoli ai grossi motori).
 Cos = power factor (0,84 + 0,90 from small-size to large-size motors).
 Cos = facteur de puissance (0,84 + 0,90 des petit aux grands moteurs).

Nei motori a corrente alternata trifase:

In three-phases alternating current motors:
 Pour les moteurs a courant triphase:

$$I = \frac{1000 \times Pr}{V \times \cos}$$

RELAZIONE FRA LEPORTATE
 RATIOBETWEENCAPACITIES
 RELATION ENTRE LES DEBITS

l/s	l/min	m ³ /h	m ³ /h	l/s	l/min
1	60	3,6	1	0,277	16,66
2	120	7,2	2	0,555	33,33
3	180	10,8	3	0,833	50
4	240	14,4	4	1,111	66,66
5	300	18	5	1,388	83,33
6	360	21,6	6	1,666	100
7	420	25,2	7	1,944	116,66
8	480	28,8	8	2,222	133,33
9	540	32,4	9	2,5	150
10	600	36	10	2,777	166,66
12	720	43,2	12	3,333	200
14	840	50,4	14	3,888	233,33
16	960	57,6	16	4,444	266,66
18	1080	64,8	18	5	300
20	1200	72	20	5,555	333,33
25	1500	90	25	6,944	416,66
30	1800	108	30	8,333	500
35	2100	126	35	9,722	583,33
40	2400	144	40	11,111	666,66
45	2700	162	45	12,5	750
50	3000	180	50	13,888	833,33
55	3300	198	55	15,277	916,66
60	3600	216	60	16,666	1000
65	3900	234	65	18,055	1083,33
70	4200	252	70	19,444	1166,66
75	4500	270	75	20,833	1250
80	4800	288	80	22,222	1333,33
85	5100	306	85	23,611	1416,66
90	5400	324	90	25	1500
95	5700	342	95	26,388	1583,33
100	6000	360	100	27,777	1666,66
110	6600	396	110	30,555	1833,33
120	7200	432	120	33,333	2000
130	7800	468	130	36,111	2166,66
140	8400	504	140	38,888	2333,33
150	9000	540	150	41,666	2500
160	9600	576	160	44,444	2666,66
170	10200	612	170	47,222	2833,33
180	10800	648	180	50	3000
190	11400	684	190	52,777	3166,66
200	12000	720	200	55,555	3333,33
250	15000	900	250	69,444	4166,66
300	18000	1080	300	83,333	5000
350	21000	1260	350	97,222	5833,33
400	24000	1440	400	111,111	6666,66
450	27000	1620	450	125	7500
500	30000	1800	500	138,888	8333,33
600	38000	2160	600	166,666	10000
700	42000	2520	700	194,444	11666,66
800	48000	2880	800	222,222	13333,33
900	54000	3240	900	250	15000
1000	60000	3600	1000	277,777	16666,66

MISURE ELETTRICHE
 ELECTRICAL MEASURES
 MESURES ELECTRIQUES

Si misurao:
 The following is to be measured:
 On mesure:

- 1) La tensione in volt [V]
 Voltage in Volts [V]
 La tension en Volt [V]
- 2) L'intensita di corrente in Ampere [A]
 Intensity of current in Ampere [A]
 L'intensite de courant en Ampere [A]
- 3) La potenza in corrente continua in watt
 Direct current power in Watts
 La puissance en courant continu en Watt
 $W = V \times A$ 1000 Watt = 1 kilowatt [kw]
 $W = V \times A$ 1000 Watts = 1 kilowatt [kw]
 $W = V \times A$ 1000 Watt = 1 kilowatt [kw]
- 4) L'energia elettrica in wattora = volt x ampere x ore
 Electric energy in watt-hours = Volts x Ampere x Hours
 L'energie electrique en watt-heure = Volt x Ampere x Heures
- 5) 1 Kilowatt = 1,36 CV
 1 Kilowatt = 1,36 HP
 1 Kilowatt = 1,36 CH
- 6) 1 Kilowattora = 1,36 Cvh
 1 Kilowatt-hour = 1,36 Hph
 1 Kilowatt-heure = 1,36 Chh
- 5) 1 CV = 0,736 kw
 1 HP = 0,736 kw
 1 CV = 0,736 kw

LEGGI DI DHM - OHMSLAW - LOI DE CHM

Intensita di corrente = $\frac{\text{torza elettromotrice}}{\text{resistenza}}$
 Intensity of current = $\frac{\text{Electromotive force}}{\text{resistance}}$
 Intensite de courant = $\frac{\text{force electromotrica}}{\text{resistance}}$

$1 = \frac{E}{R} = \text{ampere} = \frac{\text{Vott}}{\text{ohm}}$
 $1 = \frac{E}{R} = \text{amperes} = \frac{\text{Votts}}{\text{ohms}}$
 $1 = \frac{E}{R} = \text{ampere} = \frac{\text{Vott}}{\text{ohm}}$

RENDIMENTO - EFFICIENCY - RENDEMENT

Il rendimento il rapporto tra la potenza rese [Pr] e la potenza assorbita [Pa] de una macchina:
 The efficiency is the ratio between the rated [Pr] and the absorbed power [Pa] of a machine:
 le rendement est le rapport entre la puissance restituee [Pr] at pussance aborbee [Pa] par une machine:

$\frac{Pr}{Pa} = \frac{\text{KW useful power}}{\text{kW absorbed power}} = \frac{Pr}{Pa}$
 $Pa = \frac{Pr}{\text{Aborbed power}} = \frac{\text{Useful power}}{Pa} = \frac{Pr}{Pa}$

Esempio: Determinare il consumo di potenza di un motore da 15 CV con rendimento = 0,75 = 75%
 Example: Determine power consumption of a 15 HP motor with efficiency = 0,75 = 75%
 Exemple: Determiner la consommation de puissance d' un moterur de 15 CH avec rendement = 0,75 = 75%

Potenza resa 15 CV = 0,736 x 15 = 11,04 kW; la potenza richiesta del motore e quindi:
 Rated power 15 HP = 0,736 x 15 = 11,04kW; the power absorbed by the motors is, then:
 Puissance restituee 15 CH = 0,736 x 15 = 11,04 kW; la puissance absorbee par le moteur sera donc:

$\frac{11,04}{0,75} = 14,72 \text{ kW}$

MISURE ELETTRICHE
 ELECTRICAL MEASURES
 MESURES ELECTRIQUES

Si misurao:
 The following is to be measured:
 On mesure:

- 1) Par corrente continua:
 For direct current:
 Pour courant continu:
 $I = \frac{1000 \times Pr}{V \times X}$
- 2) Par corrente alternata monofase:
 For single-phase alternating current:
 Pour courant alternatif monophasé:
 $I = \frac{1000 \times Pr}{V \times \cos \times X}$
- 3) Par corrente alternata trifase:
 For three-phase alternating current:
 Pour courant alternatif triphase:
 $I = \frac{1000 \times Pr}{1,73 \times V \times \cos \times X}$

Pr = Potenza resa dal motore in kW (1 kW = 1,36 CV)
 = power supplied by the motor in kW (1 kW = 1,36 HP)
 = Puissance donnee du moteur en kW (1 kW = 1,36 CH)

I = Corrente assorbita [A]
 = Absorbed current [A]
 = Courant absorbee [A]

V = Tensione ai morsetti [V]
 = Voltage at terminals [V]
 = Tension aux bornes [V]

cos = Fattore di potenza
 = Power factor
 = Facteur de puissance

= Rendimento
 = Efficiency
 = Rendement

Esempio: Motore a corrente alternata trifase 7,5 kW = 10,2 CV alla tensione di 400 V, cos = 0,87 e = 0,865.
 Example: three-phase alternating current motor 7,5 kW = 10,2 HP at voltage of 220 V, cos = 0,87 and = 0,865.
 Exemple: Moteur a courant alternatif triphase 7,5 kW = 10,2 CH a la tension de 220 V, cos = 0,87 et = 0,865

L'intensita di corrente e:
 The intensity of current is:
 L'intensite de courant est:

$I = \frac{1000 \times 7,5}{1,73 \times 400 \times 0,97 \times 0,865} = 14,4A$

COMPARAZIONE UNIT A DI MISURA
 COMPARISON OF UNITS OF MEASURES
 COMPARATIION UNIT E DE MESURE

Cv	Hp	KW	Kgm/s
1	0,9863	0,7355	75
1,0139	1	0,7457	76,05
1,36	1,341	1	101,98

L'assorbimento a pieno carico dei motori trifasi e indicato approssimativamente nella che segue:
The number of absorbed amperes by three-phase motors at full load is given approximately in the following table:
Le nombre d'Amperes absorbe a pleine charge par les moteurs triphases est indique approximativement dans le tableau suivant:

CV	0,5	0,75	1	2	3	4	5,5	7,5	10	15	20	25	30	40	50	60	75	100	125	150	175	220	270	
kW	0,37	0,55	0,75	1,5	2,2	3	4	5,5	7,5	11	15	18,5	22	30	37	45	55	75	90	110	132	160	200	
AMPERE ASSORBITI DAL MOTORI TRIFASE A PIENO CARICO ABSORBED AMPERES BY THREE-PHASE MOTORS AT FULL LOAD AMPERES ABSORBES PARLES MOTEURS TRIPHASES EN PLEINE CHARGE																								
110	3,6	5,5	7	12	17,6	23	29	40	54	78	104	128	150	206	252	294	364	475	590	712	820	1040	1280	
120	3,3	5	6,4	11	16	21,1	26,6	36,6	49,5	71,5	95	117	137	189	241	269	334	438	540	653	750	950	1170	
160	2,48	3,78	4,8	8,2	12	15,8	19,9	27,5	37,1	53,6	71,5	88	103	141,8	173,2	202	250	328	405	490	564	715	880	
190	2,08	3,18	4	6,9	10	13,3	16,8	23,9	31,3	45	60	74	86,9	119,2	146	170	210,1	277	342	412	475	600	740	
220	1,8	2,75	3,5	6	8,7	11,5	14,5	20	27	39	52	64	75	103	126	147	182	239	295	356	410	520	640	
260	1,48	2,25	2,9	5,1	7,3	9,6	12,4	16,8	22,7	32,1	43,8	54	64,3	87,6	106	127	153,5	202	248,5	300	345	439	541	
300	1,33	1,95	2,5	4,4	6,4	8,2	10,7	14,6	19,6	27,8	38	46,9	55,6	76	91,8	107,5	133	175	215	260	299,5	380	469	
380	1,03	1,54	2	3,5	5	6,6	8,5	11,5	15,5	22	30	37	44	60	72,5	85	105	138	170	205	236	300	370	
415	0,96	1,46	1,8	3,1	4,6	6	7,8	10,8	14,4	20,5	27,7	34,5	39,8	54,2	66,2	78,2	96,5	126,5	155,5	188	216	275	338	
460	0,87	1,31	1,6	2,8	4,1	5,4	7	9,8	13	18,5	25	31	36	49	59,8	70,6	87	114	140	170	194,5	248	300	
500	0,8	1,21	1,5	2,6	3,8	5	6,5	9	12	17	23	28,5	33	45	55	65	80	105	109	156	179	228	281	

Collegamento a stella (Y) e triangolo (Δ) di un motore trifase:

Delta (Y) and star (Δ) connection of a three-phase motor:
Branchement en étoile (Y) et triangle (Δ) d'un moteur triphase:

Un motore trifase costruito per una tensione V, con avvolgimento a stella (Y) può essere alimentato con una tensione V :1,73, collegandolo a triangolo (Δ).

A three-phase motor wound for a voltage V, with star(Y) connections can be fed by a voltage V: 1,73 by connecting it in delta (Δ).
Un moteur triphase bobine pour une tension V, avec bobinage en étoile (Y) peut être alimenté par une tension V: 1,73 le connectant en triangle (Δ).

Un motore trifase costruito per una tensione V, con avvolgimento a triangolo (Δ) può essere alimentato con una tensione Vx :1,73, collegandolo a stella (Y).

A three-phase motor wound for a voltage V, with delta (Δ) connections can be fed by a voltage Vx1,73, connecting it in star (Y).
Un moteur triphase bobine pour une tension V, avec bobinage en triangle (Δ) peut être alimenté par une tension Vx1,73, le connectant en étoile(Y).

POTENZA DEL GENERATORE(1) GENERATOR POWER(1) PUISSANCE DU GENERATEUR(1)			
Potenza del motore Motor power Puissance du moteur		Potenza minima del generatore Minimum generator power in Puissance minimum du generateur en kW	Potenza minima del generatore Minimum generator power in Puissance minimum du generateur en kVA
CV	kW		
3	2,2	6	7,5
4	3	8	10
5,5	4	10	12,5
7,5	5,5	12,5	15,6
10	7,5	15	18,8
12,5	9,2	18,8	23,5
15	11	22,5	28
17,5	12,8	26,4	33
20	15	30	37,5
25	18,5	40	50
30	22	45	56,5
35	26	52,5	65
40	29,5	60	75
50	37	75	94
60	44	90	112,5
70	51,5	105	131
80	59	120	150
90	66	135	170
100	73,5	150	190
125	92	185	230
150	110	210	260

1) Quando si deve utilizzare un generatore elettrico per l'alimentazione del motore, per mancanza di disponibilità di energia elettrica attraverso normali linee di distribuzione, è necessaria un'attenta scelta.
Per questo forniamo una tabella indicativa delle potenze in kilowatt ed in kilovoltampere dei generatori da accoppiare ai motori.

When electric power is not available through the main line and an electric generator is required for motor feeding a careful choice must be effected. Herebelow find a table stating powers in kW and kVA of generators to be coupled to motors.

Quand l'énergie n'est pas disponible à travers le réseau électrique et l'utilisation d'un générateur se rend nécessaire pour l'alimentation du moteur on doit faire un choix circospect. Veuillez trouver ci de suite un plan avec les puissances en kW et kVA des générateurs pour l'alimentation des moteurs.

