



C.R.I. PUMPS

Pumping trust. Worldwide.

DEEPWELL SUBMERSIBLE PUMPS MICRO CAST STAINLESS STEEL GRAND SERIES

60 Hz



An ISO 9001 Company



* For specific models only.
* Products bearing CE mark
are only CE certified





C.R.I. PUMPS

Pumping trust. Worldwide.

T H E B E G I N N I N G

of C.R.I., way back in 1961, was a resolute attempt to produce a few irrigation equipments using the limited facilities of an inhouse foundry. Eventually the founder's dream was coming true as the small production unit he started kept growing rapidly. Now, after more than five eventful decades, it is an enormous, widely reputed organization, which produces more than 9000 varieties of perfectly engineered pumps and motors and sells its products in 120 countries across 6 continents.

C . R . I . I S O N E A M O N G

the few pioneers in the world to produce 100% stainless steel submersible pumps and it is a leading manufacturer of environment friendly water filled , rewindable motors.C.R.I.has extensive range of industrial pumps that include end suction pumps, Slurry pumps, Chemical pumps, Waste water pumps, Split case pumps, Booster pumps etc. today C.R.I. is rubbing its shoulders with the best brands in the world, with advanced technology and safety standards as its hallmarks.

T H E I N F R A S T R U C T U R E

of C.R.I. is pretty comprehensive with state-of-the-art machineries and a high potential R&D wing, Total production area over 3.2 million SF, Fully equipped with world class, Machineries with a manufacturing capacities of more than 3 Million pumps and Motors per year and over 9000 product variant are accredited with international quality certifications such as NSF, CSA, CE, UL, TSE, ISO 9001.

N E E D L E S S T O S A Y ,

behind this legendary growth lies the untiring, innovative, enthusiastic and dedicated team work. and, of course, a flawlessly maintained value system too. The name C.R.I. itself encapsulates the company's ethos:

" Commitment,Reliability, Innovation".





C.R.I. FLUID SYSTEMS

Pumping trust. Worldwide.

Vision, Mission and values

To be the industry leader providing best - in - class fluid management solutions to individual and institutional customers and societies in our chosen markets.

We will achieve this through our dedicated efforts to enhance the welfare of all our stakeholders and by living by our values of commitment, reliability and Innovation.

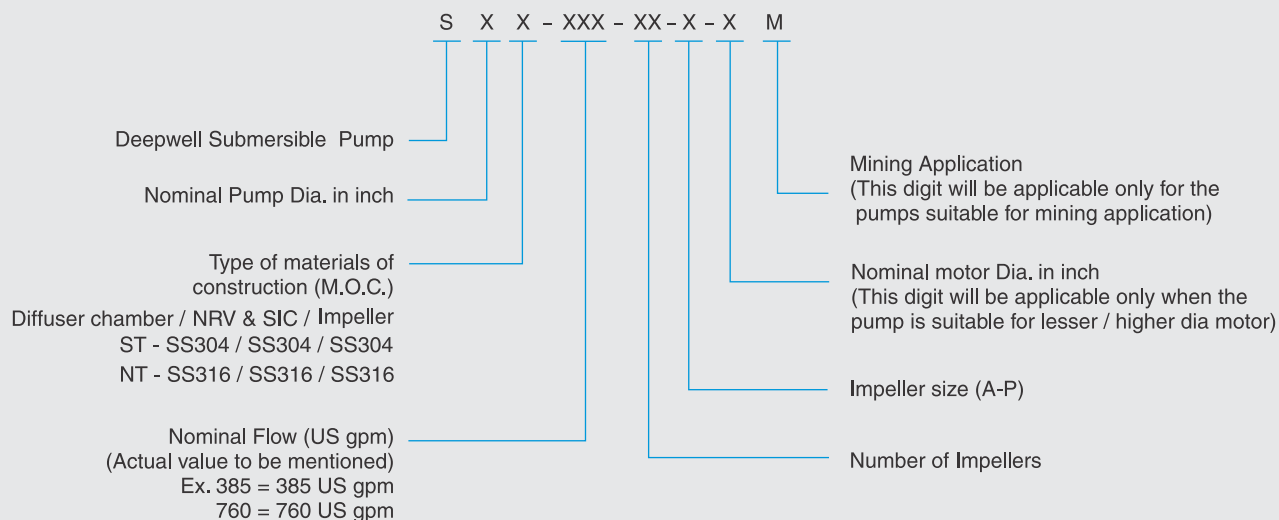
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GENERAL INFORMATION

DEEPWELL SUBMERSIBLE PUMPS MODEL IDENTIFICATION CODE

MICRO CAST STAINLESS STEEL GRAND SERIES - 60Hz



DEEPWELL SUBMERSIBLE PUMPSET (PUMP + MOTOR)

Pump Model + Motor Model
SXX - XXX-XX-XX + XXX - XXX - XX

DEEPWELL SUBMERSIBLE PUMPSET (PUMP + MOTOR)

Pump Model + Motor Model
S8ST-480-01-1B + W8B - 500 - 6M

GENERAL INFORMATION

MICRO CAST STAINLESS STEEL GRAND SERIES

PERFORMANCE CURVE CONDITIONS

The conditions below apply to the curves shown on the following pages.

- a. The Performance curve shows pump performance at rated speed, voltage and @ 3 metre minimum submergence.

The nominal speed of pump

8" & 10" : $n = 3450$ rpm

- b. The measurements were made with airless water at 68°F. When pumping liquids with a density higher than that of water, motors with correspondingly higher outputs must be used.
- c. Pipe friction losses have not been included in the performance curves and performance tables.
- d. The bold curves indicate the recommended performance range.
- e. Q/H: The curves are inclusive of check valve and suction inter-connector losses at the actual speed.
- f. Efficiency curve: " η %" shows pump stage efficiency.
- g. Curve tolerance according to ISO : 9906, Grade-3B
- h. The performances are at rated voltage and are only Indicative. Actual discharge depends on availability of water in well, based on strength of water source, height of water column, submergence of pump, etc.,.
- I. All mounting dimensions are in accordance with NEMA / International standards.
- j. The outlet size of the pumps are as per NPT standard.
- k. The performance curve is common for both ST and NT models.

GENERAL INFORMATION

MICRO CAST STAINLESS STEEL GRAND SERIES

C.R.I. Micro cast stainless steel grand series pumps are of single or multistage type supplied with mixed flow impeller for higher head and higher flow requirements. These pumps are made up of corrosion resistant stainless steel material for long life. The pump shaft is supported with radial bearing on each casing / bowl for prolonged life and trouble free operation. And also, we provide neck / wear ring on impeller and casing to maintain close clearance for better efficiency and to minimise the wear and tear. Built in check valve prevents back flow and reduces the risk of water hammer effect. All mounting dimension of pumps are in accordance with NEMA/International standards.

Design Features

- Rigid construction
- High efficiency
- Wide hydraulic ranges
- Corrosion resistant stainless steel pump components
- Can be easily dismantled and repaired

Application

- Agriculture
- Irrigation
- Sprinkler and pivot irrigation system
- Pressure boosting
- Water transfer
- Industry
- Fire fighting
- Dewatering in mines and construction



GENERAL INFORMATION

PUMPED LIQUIDS

Clean, thin, non-aggressive, non explosive, clear, cold, fresh water without abrasives, solid particles or fibre having the following characteristics

a)	Temperature (max)	91.4°F
b)	Permissible amount of sand	50g/m ³ (max)
c)	Chlorine ion density	100 ppm (max)
d)	Allowable solids	50 ppm (max)
e)	Specific gravity	1.004 (max)
f)	Hardness	300 (max)
g)	Kinematic viscosity	1mm ² /s (1cSt) (max)
h)	Turbidity	50 ppm silica scale (max)
i)	pH	6.5 to 8.5

PUMP OPERATING LIMITATIONS			
Nominal Diameter		8"	10"
Power Range		7.5 - 175 HP	25 - 200 HP
Speed		3450 rpm	3450 rpm
Discharge Range	US gpm	53 - 925	132 - 1321
	m ³ /h	12 - 212	30 - 303
Total head range	ft	26 - 1827	42 - 1197
	m	8 - 557	13 - 365
Outlet size in inches		5	6
Shaft Coupling		Splines	Keyway / Splines

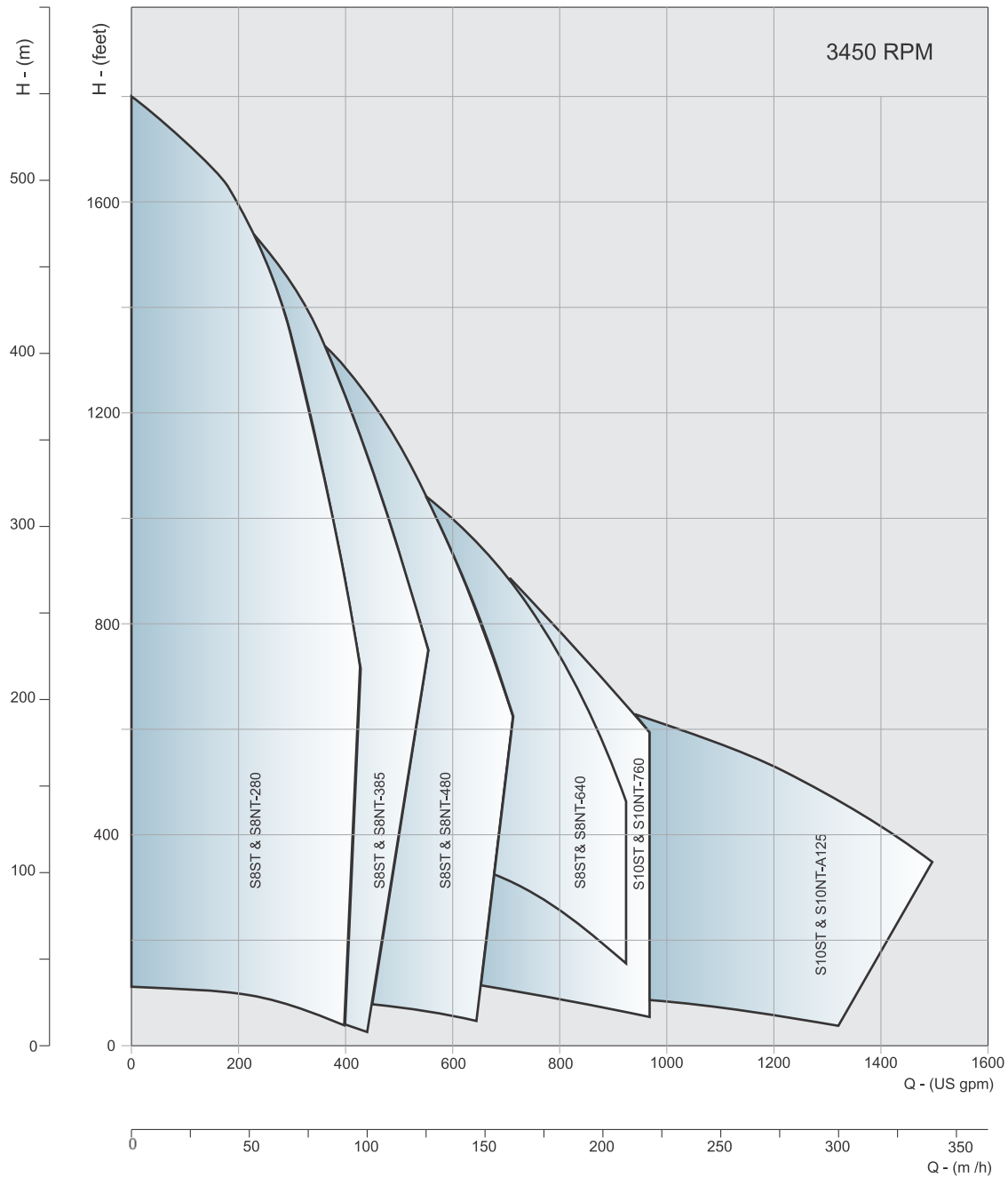
Maximum temperature of pumped liquid

Pump	Vertical installation	Horizontal installation (minimum 30°angle)
8" & 10"	NBR-91.4°F	NBR-91.4°F

Maximum operating pressure	
8" Submersible pump	5.5 Mpa (55 bar)
10" Submersible pump	3.6 Mpa (36 bar)

GENERAL INFORMATION

Group Performance Curves - 8" & 10"



Refer general information for performance curve conditions and for other details.

Curve tolerances according to ISO 9906, Grade - 3B.

In view of continuous developments, the given information / descriptions / specifications / illustrations are subject to change without notice.

GENERAL INFORMATION

Materials of Construction

S8ST & S10ST SERIES

S.No.	PART NAME	PART No.	S8ST & S10ST	DESIGNATION	
				EUROPE	USA
1	CHECK VALVE HOUSING	21.00	S.S - 304	EN 10213-GX5CrNi19-10 (1.4308)	A351-CF8
2	CHECK VALVE DISK	21.06	S.S - 304	EN 10213-GX5CrNi19-10 (1.4308)	A351-CF8
3	CHECK VALVE SEAT	21.01	NBR		
4	CHECK VALVE SPRING	21.02	S.S - 304	EN 10088-1-X5CrNi19-10 (1.4301)	AISI 304
5	DIFFUSER CHAMBER	18.03	S.S - 304	EN 10213-GX5CrNi19-10 (1.4308)	A351-CF8
6	O RING	21.07	NBR		
7	IMPELLER	19.00	S.S - 304	EN 10213-GX5CrNi19-10 (1.4308)	A351-CF8
8	SPLIT CONE	19.02	S.S - 304	EN 10088-1-X5CrNiMo17-12-2 (1.4401)	AISI 316
9	WEAR RING	17.01	NBR		
10	COUNTER THRUST PAD	18.05	PTFE		
11	BUSH-DIFFUSER CHAMBER	18.06	NBR		
12	SUCTION INTER CONNECTOR	17.00	S.S - 304	EN 10213-GX5CrNi19-10 (1.4308)	A351-CF8
13	INLET SCREEN	14.03	S.S - 304	EN 10088-1-X5CrNi18-10 (1.4301)	AISI 304
14	PUMP SHAFT	22.00	S.S - 431	EN 10088-1-X17CrNi16-2 (1.4057)	AISI 431
15	COUPLING	22.01	S.S - 431	EN 10088-1-X5CrNiMo18-10 (1.4301)	A351-S31803
16	CABLE GUARD	17.04	S.S - 304	EN 10088-1-X5CrNi18-10 (1.4301)	AISI 304
17	SCREW	32.14	S.S - 316	ISO 3506-1/2 A4-70	AISI 316
18	STUD	32.02	S.S - 316	ISO 3506-1/2 A4-70	AISI 316
19	NUT	32.07	S.S - 316	ISO 3506-1/2 A4-70	AISI 316

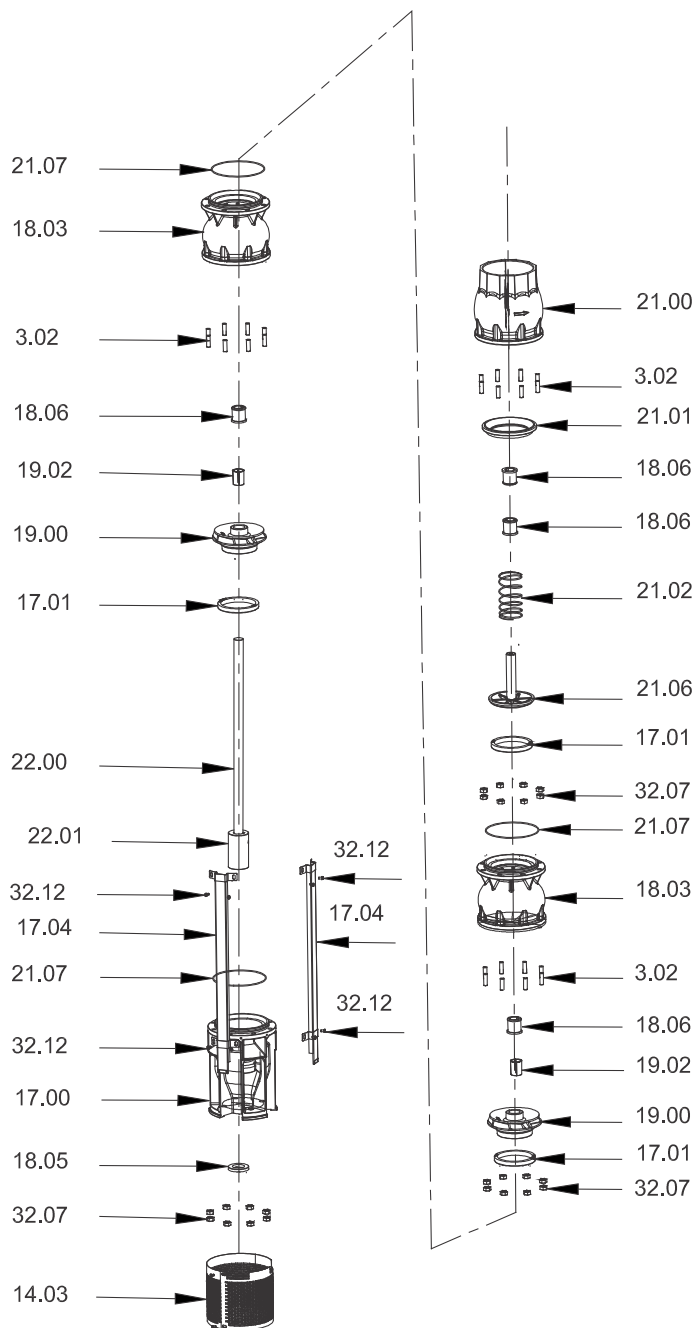
S8NT & S10NT SERIES

S.No.	PART NAME	PART No.	S8ST & S10ST	DESIGNATION	
				EUROPE	USA
1	CHECK VALVE HOUSING	21.00	S.S - 316	EN 10283 GX5CrNiMo19-11-2 (1.4408)	A351 CF8M
2	CHECK VALVE DISK	21.06	S.S - 316	EN 10283 GX5CrNiMo19-11-2 (1.4408)	A351 CF8M
3	CHECK VALVE SEAT	21.01	NBR		
4	CHECK VALVE SPRING	21.02	S.S - 316	EN 10283 GX5CrNi19-11-2 (1.4408)	AISI 316
5	DIFFUSER CHAMBER	18.03	S.S - 316	EN 10283 GX5CrNiMo19-11-2 (1.4408)	A351 CF8M
6	O RING	21.07	NBR		
7	IMPELLER	19.00	S.S - 316	EN 10283 GX5CrNiMo19-11-2 (1.4408)	A351 CF8M
8	SPLIT CONE	19.02	S.S - 316	EN 10283 GX5CrNiMo19-11-2 (1.4408)	AISI 316
9	WEAR RING	17.01	NBR		
10	COUNTER THRUST PAD	18.05	PTFE		
11	BUSH-DIFFUSER CHAMBER	18.06	NBR		
12	SUCTION INTER CONNECTOR	17.00	S.S - 316	EN 10283 GX5CrNiMo19-11-2 (1.4408)	A351 CF8M
13	INLET SCREEN	14.03	S.S - 316	EN 10283 GX5CrNiMo19-11-2 (1.4408)	AISI 316
14	PUMP SHAFT	22.00	S.S - 329	EN 10088-1- X3CrNiMoN27-5-2 (1.4460)	AISI 329
15	COUPLING	22.01	S.S - 329	EN 10283 GX5CrNiMo19-11-2 (1.4408)	AISI 329
16	CABLE GUARD	17.04	S.S - 316	EN 10283 GX5CrNiMo19-11-2 (1.4408)	AISI 316
17	SCREW	32.14	S.S - 316	ISO 3506-1/2 A4-70	AISI 316
18	STUD	32.02	S.S - 316	ISO 3506-1/2 A4-70	AISI 316
19	NUT	32.07	S.S - 316	ISO 3506-1/2 A4-70	AISI 316

GENERAL INFORMATION

Exploded View

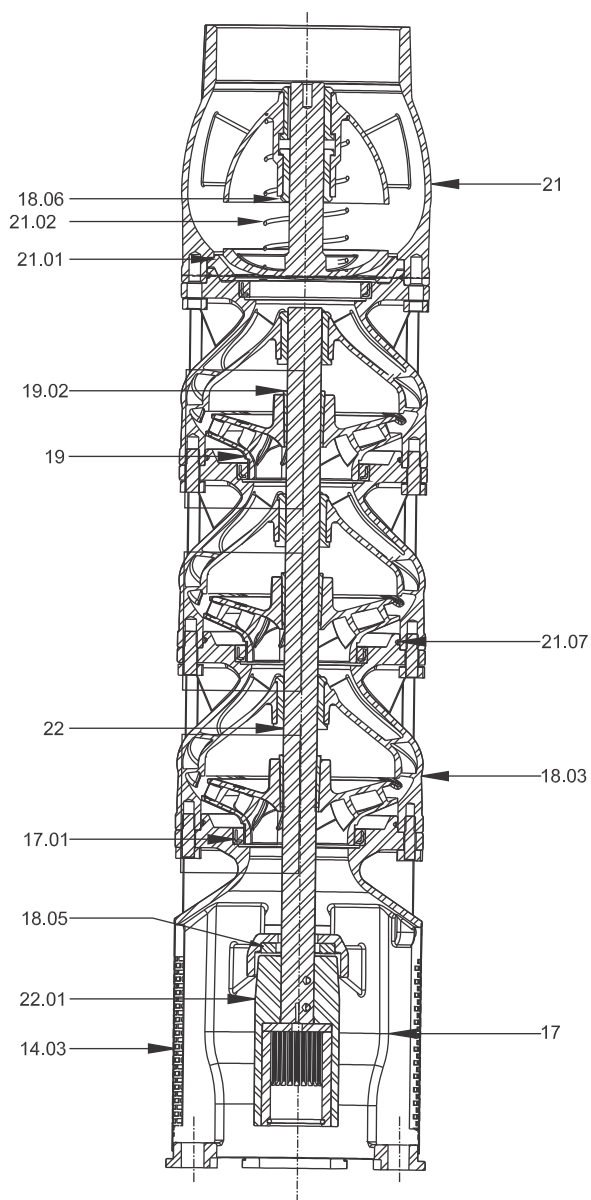
S8ST, S8NT, S10ST & S10NT



Part No.	Part Name
3.02	STUD
14.03	INLET SCREEN
17.00	SUCTION INTER-CONNECTOR
17.01	WEAR RING
17.04	CABLE GUARD
18.03	DIFFUSER CHAMBER
18.05	COUNTER THRUST PAD
18.06	BUSH-DIFFUSER CHAMBER
19.00	IMPELLER
19.02	SPLIT CONE
21.00	CHECK VALVE HOUSING
21.01	CHECK VALVE DISC SEATING PAD
21.02	SPRING
21.06	CHECK VALVE DISC
21.07	O-RING
22.00	PUMP SHAFT
22.01	COUPLING
32.07	NUT
32.12	SCREW

GENERAL INFORMATION

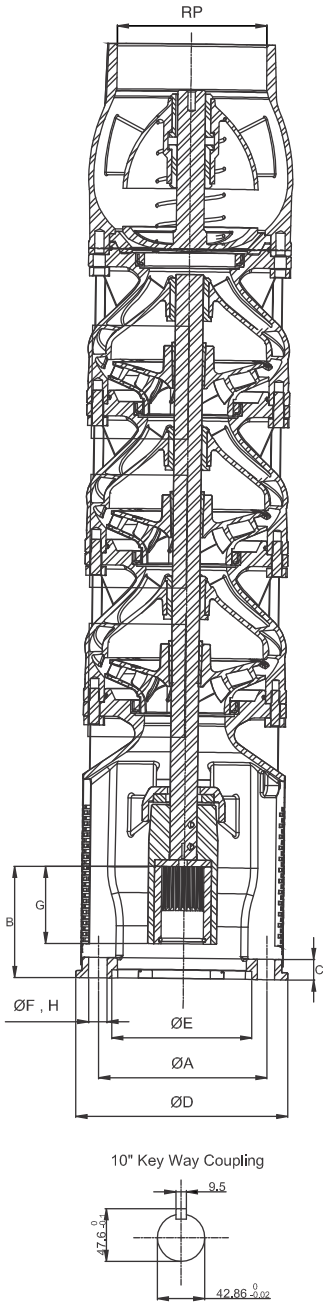
CROSS SECTION DIAGRAM AND LIST OF COMPONENTS - 8" & 10"



Part No.	Part Name
14.03	Strainer
17.00	Suction inter connector
17.01	Wear ring
18.03	Diffuser chamber
18.05	CT pad
18.06	Bush
19.00	Impeller
19.02	Split cone
21.07	O-ring
21.00	NRV
21.01	Check valve seating pad
21.02	Spring
22.00	Pump shaft
22.01	Coupling

GENERAL INFORMATION

MOUNTING DIMENSIONS - 8" & 10"



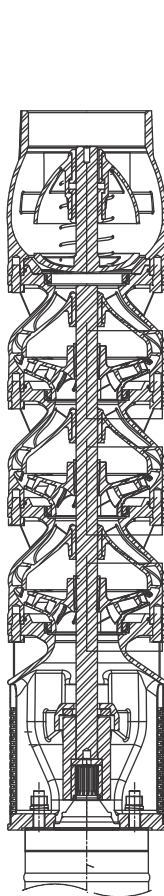
MOTOR	DIMENSIONS (mm)							
	ØA	ØD	ØE	H	ØF	B	C	G
6" (NEMA)	111	183,5	76,24	4	15	72,8	19	40
8" (NEMA)	152,4	183,5	127,03	4	19	101,6	19	70
10" (SPLINES)	172	233	127,03	4	23	101,6	20	70
10" (KEYWAY)	190,5	233	127,03	4	23	101,6	20	83

6" and 8" Coupling according to NEMA Standards

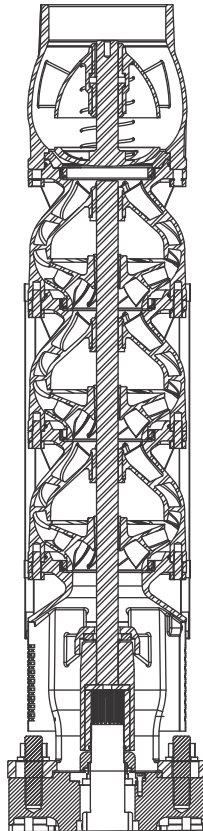
Rising Pipe (RP) - 5" outlet for 8" pump and 6"outlet for 10" pump

GENERAL INFORMATION

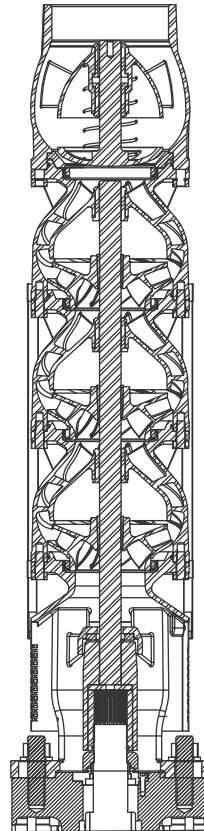
MOTOR & PUMP COUPLING DIAGRAM



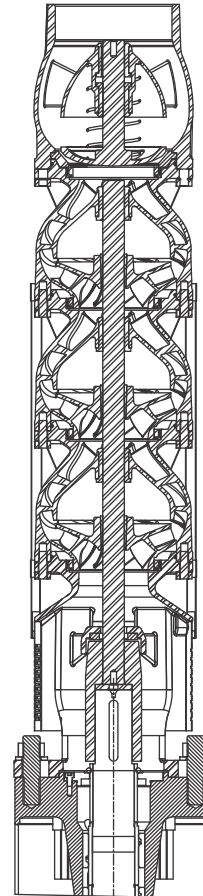
(8" & 10" Pump
with 6" Motor)



(8" & 10" Pump
with 8" Motor)

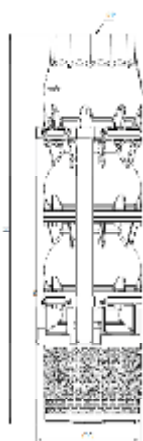


(10" & 8" Pump with
10" Motor - Spline)



(10" & 8" Pump with
10" Motor - Keyway)

MICRO CAST STAINLESS STEEL GRAND SERIES

Nominal Diameter : **8"**Nominal Flow : **280 gpm**Outlet Size : **5" NPT**
DIMENSIONS & WEIGHT TABLE


Pump Model	Power		Dimensions				Net Weight in lbs	Gross Weight in lbs	Packing Box size in inches (L x B x H)		
			Maximum Outer Diameter (OD) in inches		Outlet Size in inches	Height in inches					
	kW	HP	Single Cable Guard	Double Cable Guard	RP	H					
S8ST-280-01-1A	5.5	7.5	8	8	5	22	73	106	35	9	9
S8ST-280-01	7.5	10	8	8	5	22	73	106	35	9	9
S8ST-280-02-2A	11	15	8	8	5	28	90	123	35	9	9
S8ST-280-02-1A	15	20	8	8	5	28	90	123	35	9	9
S8ST-280-02	15	20	8	8	5	28	90	123	35	9	9
S8ST-280-03-3A	15	20	8	8	5	33	107	144	43	9	9
S8ST-280-03-1A	18.5	25	8	8	5	33	107	144	43	9	9
S8ST-280-03	22	30	8	8	5	33	107	144	43	9	9
S8ST-280-04-2A	30	40	8	8	5	33	124	164	51	9	9
S8ST-280-04	30	40	8	8	5	38	124	164	51	9	9

PERFORMANCE TABLE

Product Code	PUMP MODEL	Power		US GPM	0	53	106	159	211	264	280	317	370	423
Suitable for 6" motor		kW	HP											
67324	S8ST-280-01-1A	5.5	7.5	HEAD IN FEET	108	105	103	100	94	82	79	66	46	0
67325	S8ST-280-01	7.5	10		136	133	130	126	120	110	106	95	77	0
67327	S8ST-280-02-2A	11	15		217	212	207	202	188	166	158	131	92	0
67326	S8ST-280-02-1A	15	20		244	240	235	230	217	195	188	162	125	0
67328	S8ST-280-02	15	20		272	266	259	253	240	220	211	189	152	0
67330	S8ST-280-03-3A	15	20		323	315	309	301	282	247	232	195	135	0
67329	S8ST-280-03-1A	18.5	25		379	369	361	351	333	300	288	252	195	0
67331	S8ST-280-03	22	30		407	397	387	377	358	327	314	280	222	159
67332	S8ST-280-04-2A	30	40		486	472	463	449	430	381	360	313	238	0
67333	S8ST-280-04	30	40		545	532	522	507	483	443	426	383	307	220

*Third letter on model will be replaced as N for SS 316 MOC

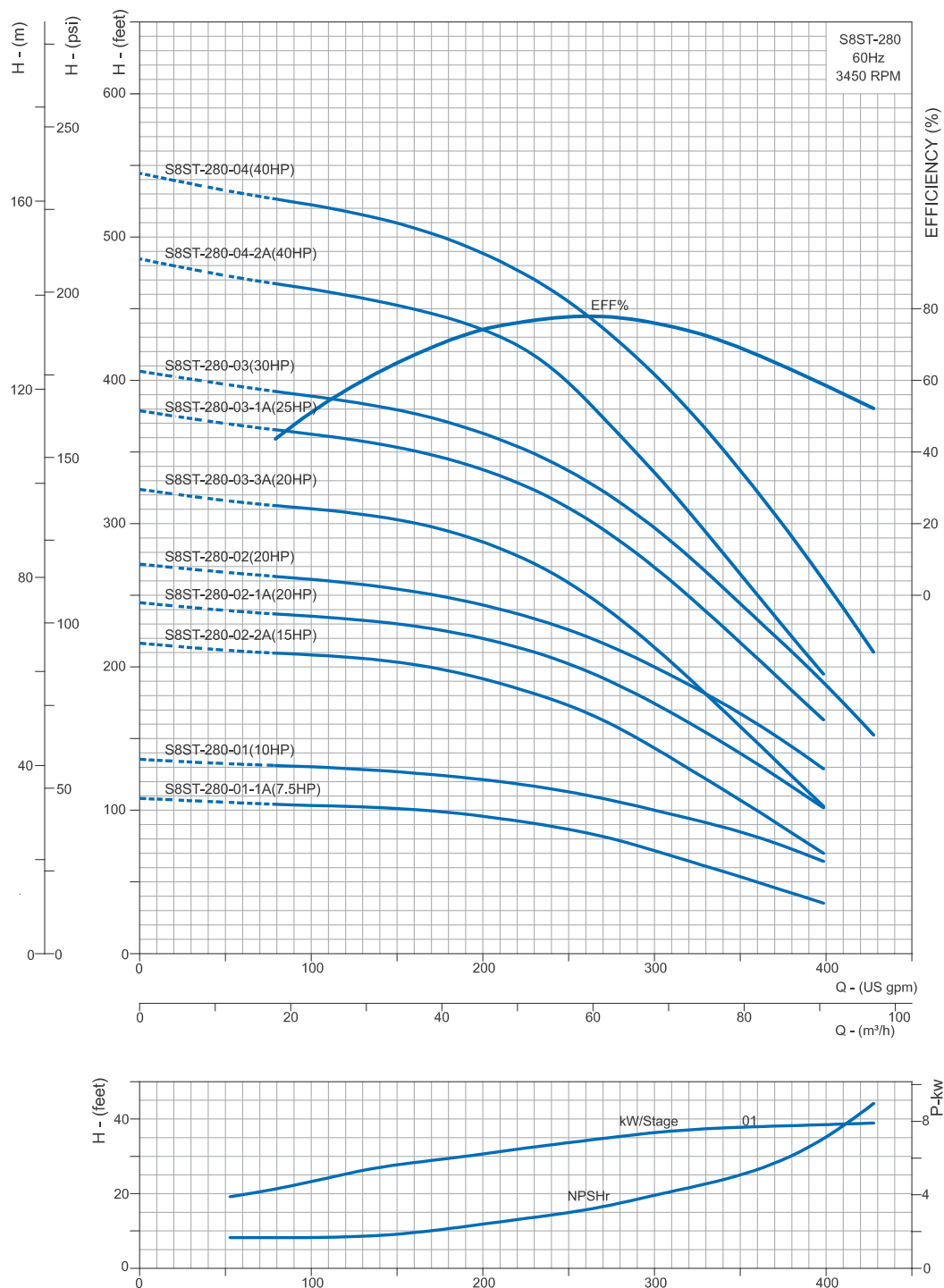
MICRO CAST STAINLESS STEEL GRAND SERIES

Nominal Diameter : **8"**

Nominal Flow : **280 gpm**

Outlet Size : **5" NPT**

PERFORMANCE CURVES



Refer General Information for performance curve conditions and for other details.

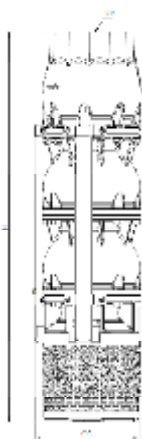
Curve tolerance according to ISO : 9906, Grade - 3B

In view of continuous developments, the given information / descriptions / specifications / illustrations are subject to change without notice.

MICRO CAST STAINLESS STEEL GRAND SERIES

Nominal Diameter : **8"**Nominal Flow : **280 gpm**Outlet Size : **5" NPT**

DIMENSIONS AND WEIGHT TABLE



PUMP MODEL	Power		Dimensions				Net Weight in lbs	Gross Weight in lbs	Packing Box size in inches (L x B x H)		
			Maximum Outer Diameter (OD) in inches		Outlet Size in inches	Height in inches					
	kW	HP	Single Cable Guard	Double Cable Guard	RP	H					
S8ST-280-05-2A	30	40	8	8	5	44	141	181	51	9	9
S8ST-280-05	37	50	8	8	5	44	141	181	51	9	9
S8ST-280-06-2A	37	50	8	8	5	49	157	200	59	9	9
S8ST-280-06	45	60	8	8	5	49	157	200	59	9	9
S8ST-280-07	55	75	8	8	5	54	174	221	67	9	9
S8ST-280-08	63	85	8	8	5	60	191	238	67	9	9
S8ST-280-09	75	100	8	8	5	65	208	258	74	9	9
S8ST-280-10	75	100	8	8	5	70	225	279	82	9	9
S8ST-280-11	75	100	8	8	5	76	242	297	90	9	9
S8ST-280-12	93	125	8	8	5	81	259	316	98	9	9
S8ST-280-13	93	125	8	8	5	86	276	336	106	9	9

PERFORMANCE TABLE

Product Code		Pump Model	Power		US GPM	0	53	106	159	211	264	280	317	370	423
Suitable for 6" motor	Suitable for 8" motor		kW	HP											
67334	-	S8ST-280-05-2A	30	40	HEAD IN FEET	622	605	594	577	546	493	475	414	315	0
74630	-	S8ST-280-05	37	50		678	661	648	630	597	545	525	468	376	267
74631	-	S8ST-280-06-2A	37	50		755	735	719	700	666	598	570	500	387	0
-	67335	S8ST-280-06	45	60		820	801	786	766	730	673	650	586	472	341
-	67336	S8ST-280-07	55	75		963	943	929	906	867	801	775	700	570	419
-	67337	S8ST-280-08	63	85		1099	1076	1060	1035	993	917	880	799	655	479
-	67338	S8ST-280-09	75	100		1237	1212	1189	1163	1115	1030	995	900	728	539
-	67339	S8ST-280-10	75	100		1368	1335	1309	1280	1224	1125	1080	978	789	576
-	67340	S8ST-280-11	75	100		1501	1467	1437	1401	1337	1228	1180	1069	863	621
-	67341	S8ST-280-12	93	125		1636	1599	1568	1531	1460	1342	1300	1165	941	679
-	67342	S8ST-280-13	93	125		1777	1739	1704	1659	1568	1453	1410	1271	1033	745

*Third letter on model will be replaced as N for SS 316 MOC

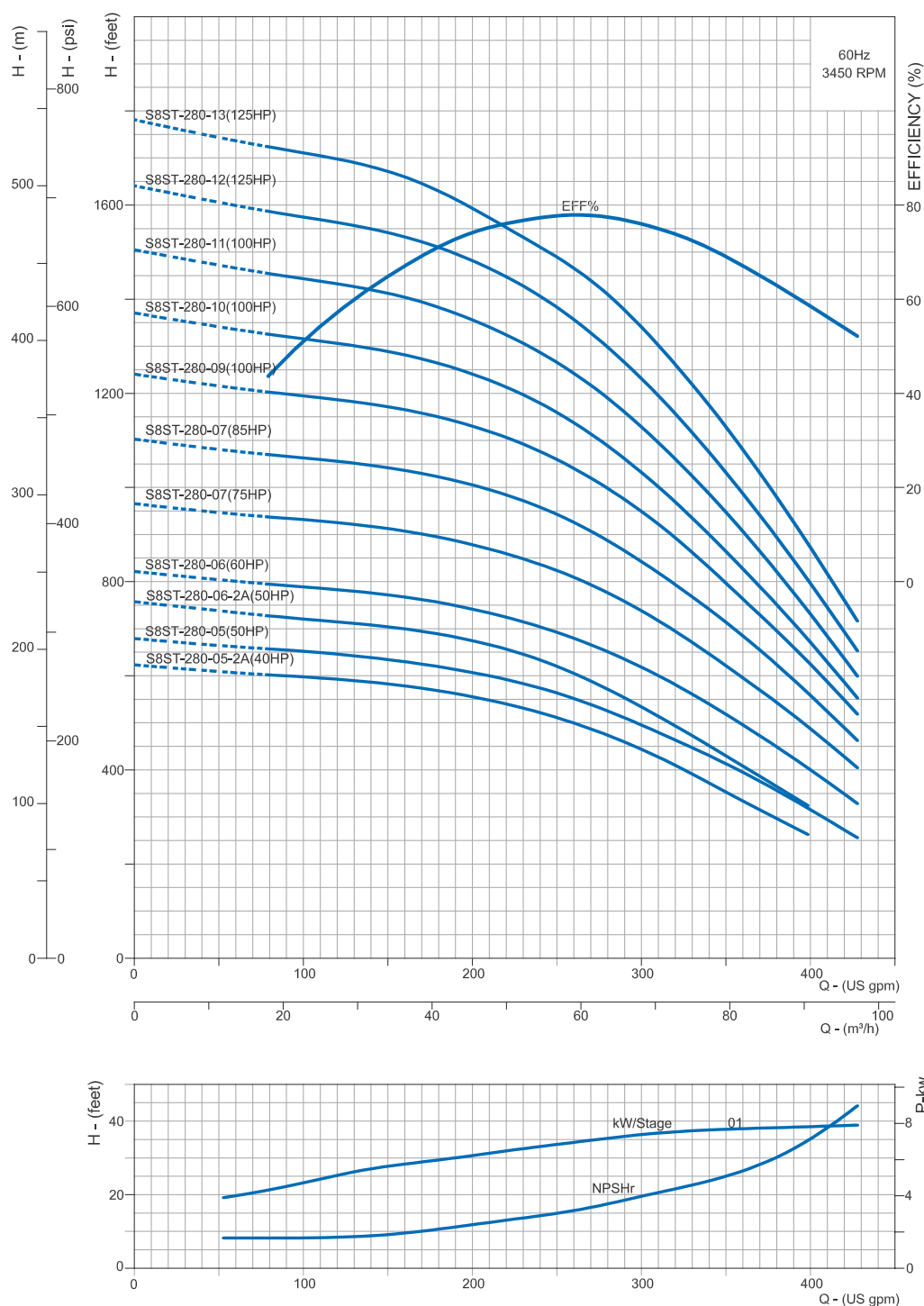
MICRO CAST STAINLESS STEEL GRAND SERIES

Nominal Diameter : **8"**

Nominal Flow : **280 gpm**

Outlet Size : **5" NPT**

PERFORMANCE CURVES

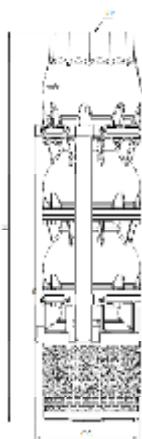


Refer General Information for performance curve conditions and for other details.

Curve tolerance according to ISO : 9906, Grade - 3B

In view of continuous developments, the given information / descriptions / specifications / illustrations are subject to change without notice.

MICRO CAST STAINLESS STEEL GRAND SERIES

Nominal Diameter : **8"**Nominal Flow : **385 gpm**Outlet Size : **5" NPT**
DIMENSIONS & WEIGHT TABLE

PUMP MODEL	Power		Dimensions				Net Weight in lbs	Gross Weight in lbs	Packing Box size in inches (L x B x H)		
			Maximum Outer Diameter (OD) in inches		Outlet Size in inches	Height in inches					
	kW	HP	Single Cable Guard	Double Cable Guard	RP	H					
S8ST-385-01-1B	5.5	7.5	8	8	5	23	75	108	35	9	9
S8ST-385-01-1C	7.5	10	8	8	5	23	75	108	35	9	9
S8ST-385-01	11	15	8	8	5	23	75	108	35	9	9
S8ST-385-02-2B	11	15	8	8	5	29	94	130	43	9	9
S8ST-385-02-2A	15	20	8	8	5	29	94	130	43	9	9
S8ST-385-02	18.5	25	8	8	5	29	94	130	43	9	9
S8ST-385-03-2B	18.5	25	8	8	5	35	112	130	43	9	9
S8ST-385-03-1A	22	30	8	8	5	35	112	149	43	9	9
S8ST-385-03	30	40	8	8	5	35	112	149	43	9	9
S8ST-385-04-2A	30	40	8	8	5	41	131	171	51	9	9
S8ST-385-04-1A	30	40	8	8	5	41	131	171	51	9	9
S8ST-385-04	37	50	8	8	5	41	131	171	51	9	9

PERFORMANCE TABLE

Product Code	Pump Model	Power		US GPM	0	106	211	317	385	422	528
Suitable for 6" motor		kW	HP								
67343	S8ST-385-01-1B	5.5	7.5	HEAD IN FEET	100	93	87	75	64	56	26
67344	S8ST-385-01-1C	7.5	10		128	119	109	97	87	80	52
67345	S8ST-385-01	11	15		138	128	118	107	96	89	64
67347	S8ST-385-02-2B	11	15		201	190	176	151	125	108	52
67346	S8ST-385-02-2A	15	20		243	226	208	184	160	144	92
67348	S8ST-385-02	18.5	25		276	253	235	212	189	175	123
67350	S8ST-385-03-2B	18.5	25		336	313	290	253	217	193	112
67349	S8ST-385-03-1A	22	30		377	349	323	287	250	227	149
67351	S8ST-385-03	30	40		415	382	354	318	285	262	187
67353	S8ST-385-04-2A	30	40		485	449	417	370	323	291	186
67352	S8ST-385-04-1A	30	40		517	477	441	395	348	319	213
74632	S8ST-385-04	37	50		551	505	466	420	375	346	243

*Third letter on model will be replaced as N for SS 316 MOC

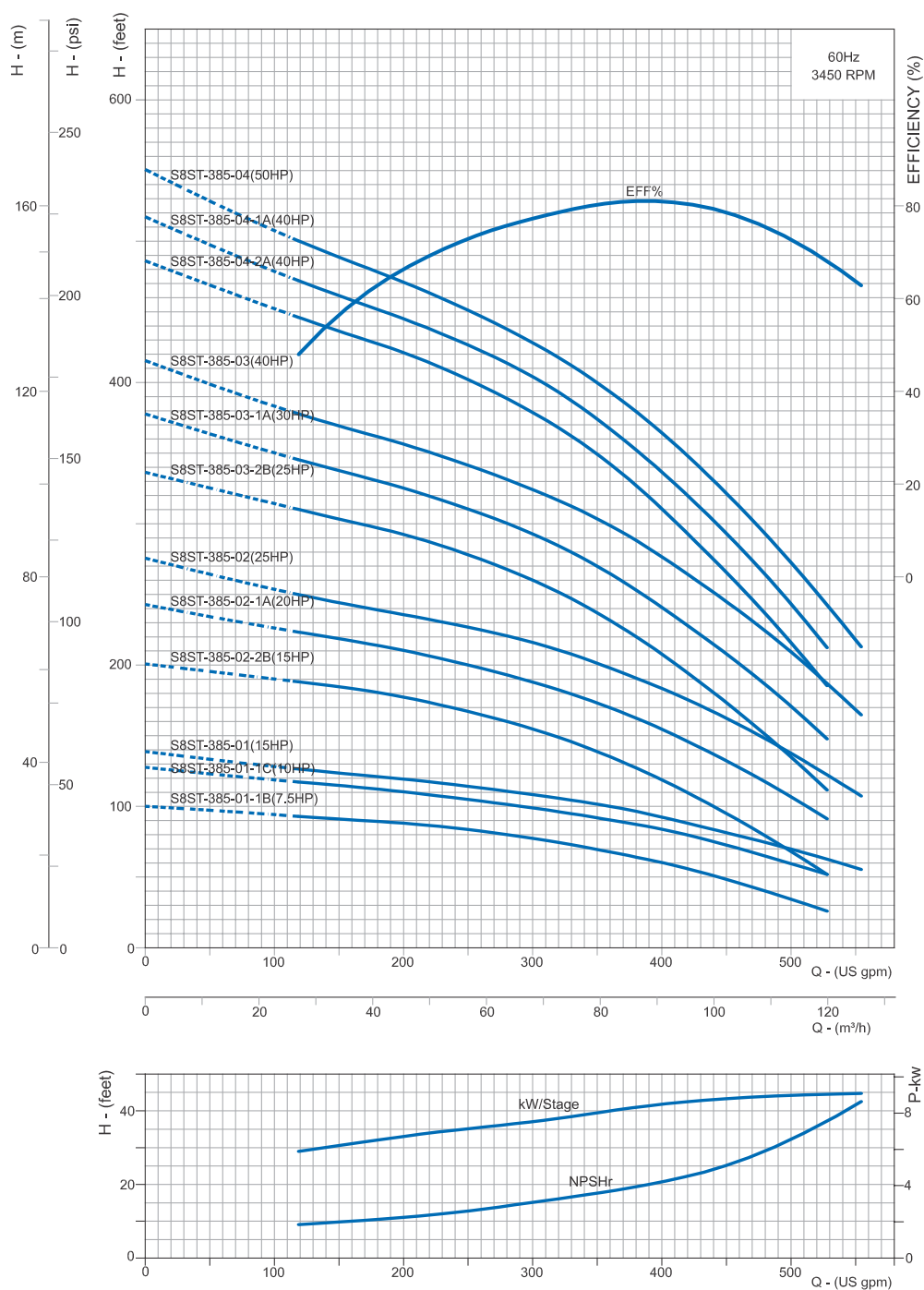
MICRO CAST STAINLESS STEEL GRAND SERIES

Nominal Diameter : **8"**

Nominal Flow : **385 gpm**

Outlet Size : **5" NPT**

PERFORMANCE CURVES



Refer General Information for performance curve conditions and for other details.

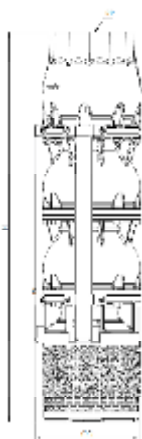
Curve tolerance according to ISO : 9906, Grade - 3B

In view of continuous developments, the given information / descriptions / specifications / illustrations are subject to change without notice.

MICRO CAST STAINLESS STEEL GRAND SERIES

Nominal Diameter : **8"**Nominal Flow : **385 gpm**Outlet Size : **5" NPT**

DIMENSIONS & WEIGHT TABLE



PUMP MODEL	Power		Dimensions				Net Weight in lbs	Gross Weight in lbs	Packing Box size in inches (L x B x H)		
			Maximum Outer Diameter (OD) in inches		Outlet Size in inches	Height in inches					
	kW	HP	Single Cable Guard	Double Cable Guard	RP	H					
S8ST-385-05-2A	37	50	8	8	5	47	150	193	59	9	9
S8ST-385-05-1A	37	50	8	8	5	47	150	193	59	9	9
S8ST-385-05	45	60	8	8	5	47	149	192	59	9	9
S8ST-385-06-2A	45	60	8	8	5	53	167	214	67	9	9
S8ST-385-06	55	75	8	8	5	53	167	214	67	9	9
S8ST-385-07	55	75	8	8	5	59	186	233	67	9	9
S8ST-385-08	75	100	8	8	5	65	205	255	67	9	9
S8ST-385-09	75	100	8	8	5	71	223	277	74	9	9
S8ST-385-10	93	125	8	8	5	77	241	298	85	9	9
S8ST-385-11	93	125	8	8	5	83	261	318	90	9	9
S8ST-385-12	110	150	8	8	5	89	282	361	98	9	9
S8ST-385-13	110	150	8	8	5	95	301	385	106	9	9

PERFORMANCE TABLE

Product Code				Pump Model	Power		US GPM	0	106	211	317	385	422	528
Suitable for 6" motor	Suitable for 8" motor	Suitable for 10" motor			kW	HP								
		Spline	Keyway											
74634	-	-	-	S8ST-385-05-2A	37	50	HEAD IN FEET	623	574	531	471	415	377	241
74633	-	-	-	S8ST-385-05-1A	37	50		651	600	553	495	435	395	266
-	67354	-	-	S8ST-385-05	45	60		699	645	595	530	480	449	320
-	67356	-	-	S8ST-385-06-2A	45	60		771	715	661	587	520	476	318
-	67355	-	-	S8ST-385-06	55	75		840	771	717	648	580	536	36
-	67357	-	-	S8ST-385-07	55	75		986	907	845	768	690	638	456
-	67358	-	-	S8ST-385-08	75	100		1127	1036	964	874	795	745	526
-	67359	-	-	S8ST-385-09	75	100		1256	1155	1073	968	865	795	571
-	67360	-	-	S8ST-385-10	93	125		1394	1279	1191	1069	960	884	631
-	67361	-	-	S8ST-385-11	93	125		1535	1415	1312	1179	1065	979	699
-	-	74635	74636	S8ST-385-12	110	150		1691	1558	1448	1312	1180	1097	790
-	-	74637	74638	S8ST-385-13	110	150		1827	1684	1565	1419	1275	1176	848

*Third letter on model will be replaced as N for SS 316 MOC

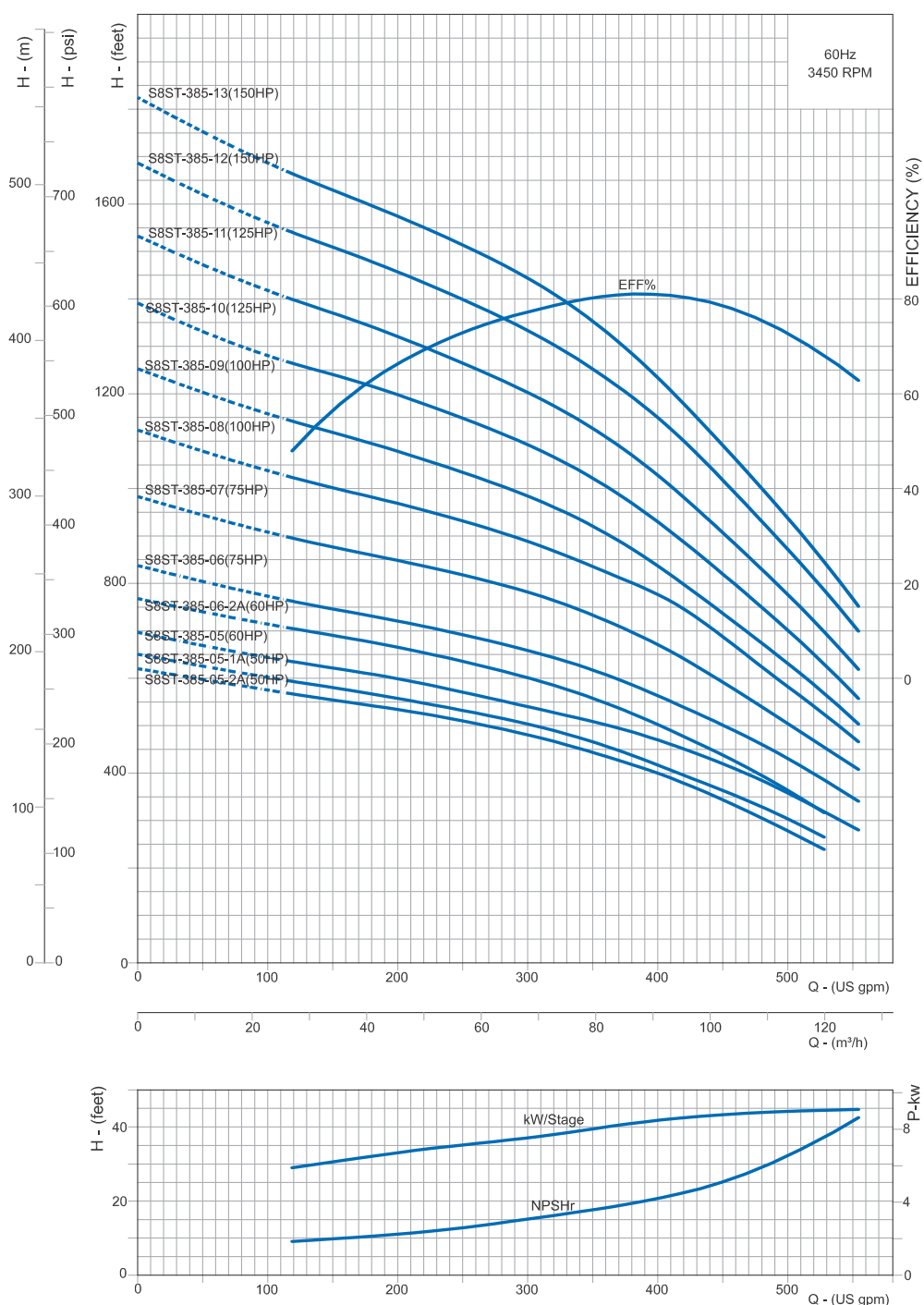
MICRO CAST STAINLESS STEEL GRAND SERIES

Nominal Diameter : **8"**

Nominal Flow : **385 gpm**

Outlet Size : **5" NPT**

PERFORMANCE CURVES

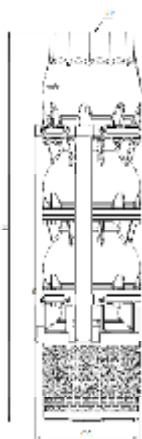


Refer General Information for performance curve conditions and for other details.

Curve tolerance according to ISO : 9906, Grade - 3B

In view of continuous developments, the given information / descriptions / specifications / illustrations are subject to change without notice.

MICRO CAST STAINLESS STEEL GRAND SERIES

Nominal Diameter : **8"**Nominal Flow : **480 gpm**Outlet Size : **5" NPT**

DIMENSIONS & WEIGHT TABLE

PUMP MODEL	Power		Dimensions				Net Weight in lbs	Gross Weight in lbs	Packing Box size in inches (L x B x H)		
			Maximum Outer Diameter (OD) in inches		Outlet Size in inches	Height in inches					
	kW	HP	Single Cable Guard	Double Cable Guard	RP	H					
S8ST-480-01-1B	11	15	8	8	5	23	75	108	35	9	9
S8ST-480-01-1A	11	15	8	8	5	23	75	108	35	9	9
S8ST-480-01	15	20	8	8	5	23	75	108	35	9	9
S8ST-480-02-2B	15	20	8	8	5	29	93	130	43	9	9
S8ST-480-02-2A	18.5	25	8	8	5	29	93	130	43	9	9
S8ST-480-02	30	40	8	8	5	29	93	130	43	9	9
S8ST-480-03-2B	30	40	8	8	5	35	112	149	43	9	9
S8ST-480-03-2A	30	40	8	8	5	35	112	149	43	9	9
S8ST-480-03	37	50	8	8	5	35	112	149	43	9	9
S8ST-480-04-2B	37	50	8	8	5	41	131	171	51	9	9
S8ST-480-04-2A	45	60	8	8	5	41	130	170	51	9	9
S8ST-480-04	55	75	8	8	5	41	130	170	51	9	9

PERFORMANCE TABLE

Product Code		Pump Model	Power		US GPM	0	132	264	396	480	528	660
Suitable for 6" motor	Suitable for 8" motor		kW	HP								
67363	-	S8ST-480-01-1B	11	15	HEAD IN FEET	92	90	87	75	62	56	0
67362	-	S8ST-480-01-1A	11	15		112	108	105	95	83	75	0
67364	-	S8ST-480-01	15	20		134	131	125	116	102	98	69
67366	-	S8ST-480-02-2B	15	20		182	179	172	151	125	108	0
67365	-	S8ST-480-02-2A	18.5	25		221	219	208	186	164	149	0
67367	-	S8ST-480-02	30	40		267	259	246	223	200	187	127
67369	-	S8ST-480-03-2B	30	40		318	312	298	266	232	208	0
67368	-	S8ST-480-03-2A	30	40		356	347	332	301	268	244	0
74639	-	S8ST-480-03	37	50		405	391	372	337	304	281	195
74640	-	S8ST-480-04-2B	37	50		451	438	417	372	328	292	0
-	67371	S8ST-480-04-2A	45	60		495	482	464	424	381	350	0
-	67370	S8ST-480-04	55	75		544	526	502	458	418	387	269

*Third letter on model will be replaced as N for SS 316 MOC

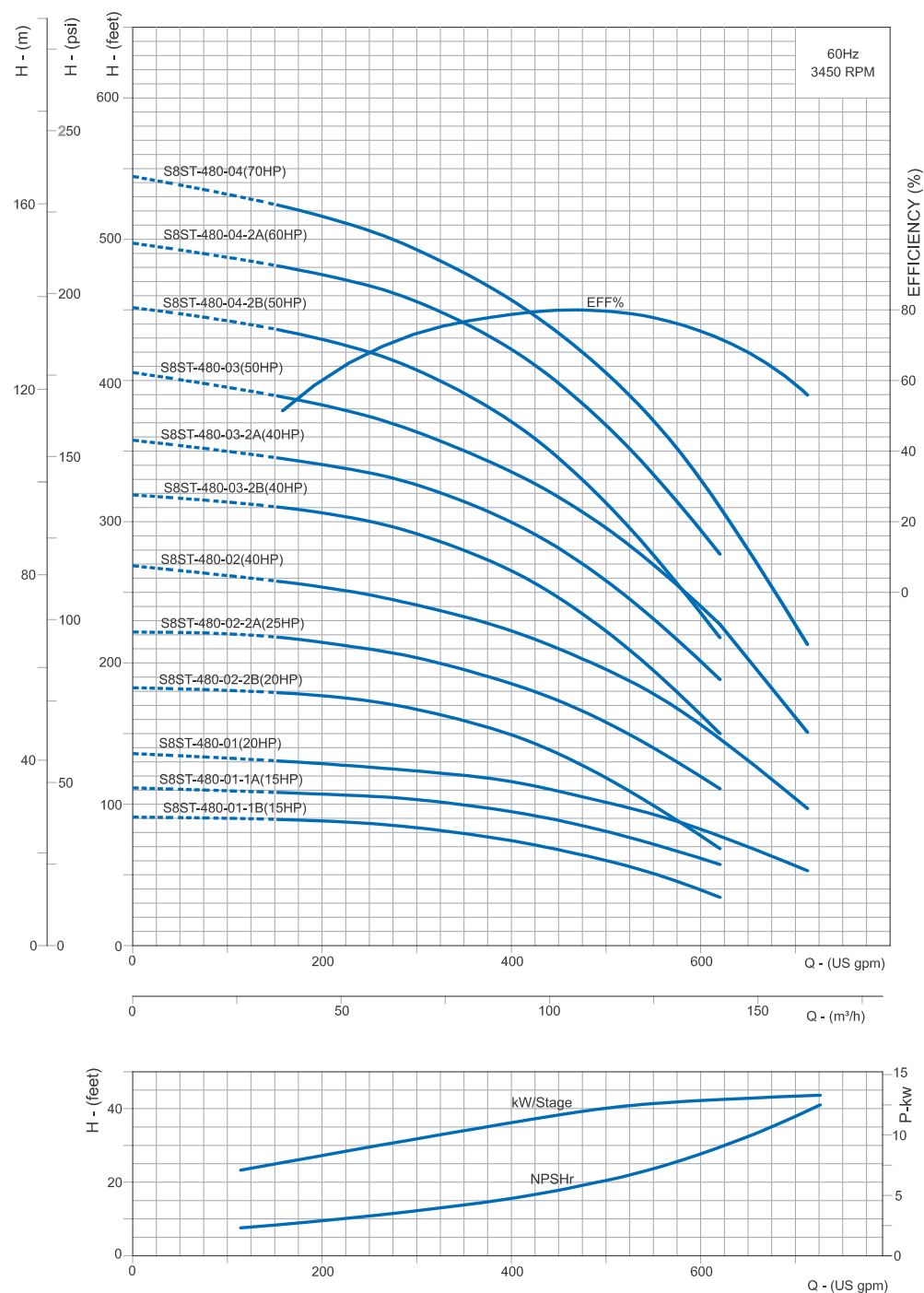
MICRO CAST STAINLESS STEEL GRAND SERIES

Nominal Diameter : **8"**

Nominal Flow : **480 gpm**

Outlet Size : **5" NPT**

PERFORMANCE CURVES

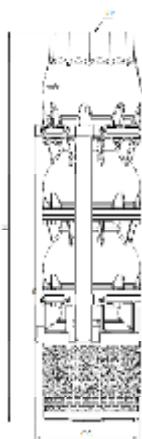


Refer General Information for performance curve conditions and for other details.

Curve tolerance according to ISO : 9906, Grade - 3B

In view of continuous developments, the given information / descriptions / specifications / illustrations are subject to change without notice.

MICRO CAST STAINLESS STEEL GRAND SERIES

Nominal Diameter : **8"**Nominal Flow : **480 gpm**Outlet Size : **5" NPT**
DIMENSIONS & WEIGHT TABLE

PUMP MODEL	Power		Dimensions				Net Weight in lbs	Gross Weight in lbs	Packing Box size in inches (L x B x H)		
			Maximum Outer Diameter (OD) in inches		Outlet Size in inches	Height in inches					
	kW	HP	Single Cable Guard	Double Cable Guard	RP	H					
S8ST-480-05-3A	55	75	8	8	5	47	149	192	59	9	9
S8ST-480-05	63	85	8	8	5	47	149	192	59	9	9
S8ST-480-06-3A	75	100	8	8	5	53	167	214	67	9	9
S8ST-480-06	75	100	8	8	5	53	167	214	67	9	9
S8ST-480-07-3A	75	100	8	8	5	59	186	233	67	9	9
S8ST-480-07	93	125	8	8	5	59	186	233	67	9	9
S8ST-480-08-3A	93	125	8	8	5	65	205	255	74	9	9
S8ST-480-08	93	125	8	8	5	65	205	255	74	9	9
S8ST-480-09	110	150	8	8	5	71	226	297	82	9	9
S8ST-480-10	130	175	8	8	5	77	245	320	85	9	9
S8ST-480-11	130	175	8	8	5	83	263	338	90	9	9

PERFORMANCE TABLE

Product Code			Pump Model	Power		US GPM	0	132	264	396	480	528	660
Suitable for 8" motor	Suitable for 10" motor			kW	HP								
	Spline	Keyway											
67373	-	-	S8ST-480-05-3A	55	75	HEAD IN FEET	614	597	579	527	473	433	296
67372	-	-	S8ST-480-05	63	85		684	666	639	584	538	492	356
67375	-	-	S8ST-480-06-3A	75	100		749	734	707	646	578	532	371
67374	-	-	S8ST-480-06	75	100		820	794	759	692	628	581	415
67377	-	-	S8ST-480-07-3A	75	100		880	858	825	748	673	613	422
67376	-	-	S8ST-480-07	93	125		950	926	885	805	733	669	478
67379	-	-	S8ST-480-08-3A	93	125		1017	992	953	868	796	710	493
67378	-	-	S8ST-480-08	93	125		1089	1058	1007	918	838	774	546
-	74641	74642	S8ST-480-09	110	150		1232	1198	1145	1049	963	887	638
-	67380	67381	S8ST-480-10	130	175		1371	1333	1276	1172	1073	983	714
-	67382	67383	S8ST-480-11	130	175		1508	1466	1403	1294	1172	1082	781

*Third letter on model will be replaced as N for SS 316 MOC

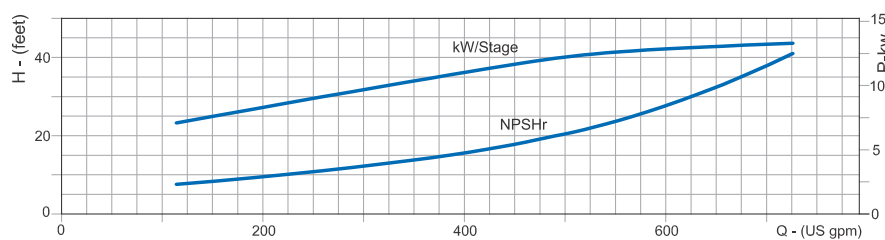
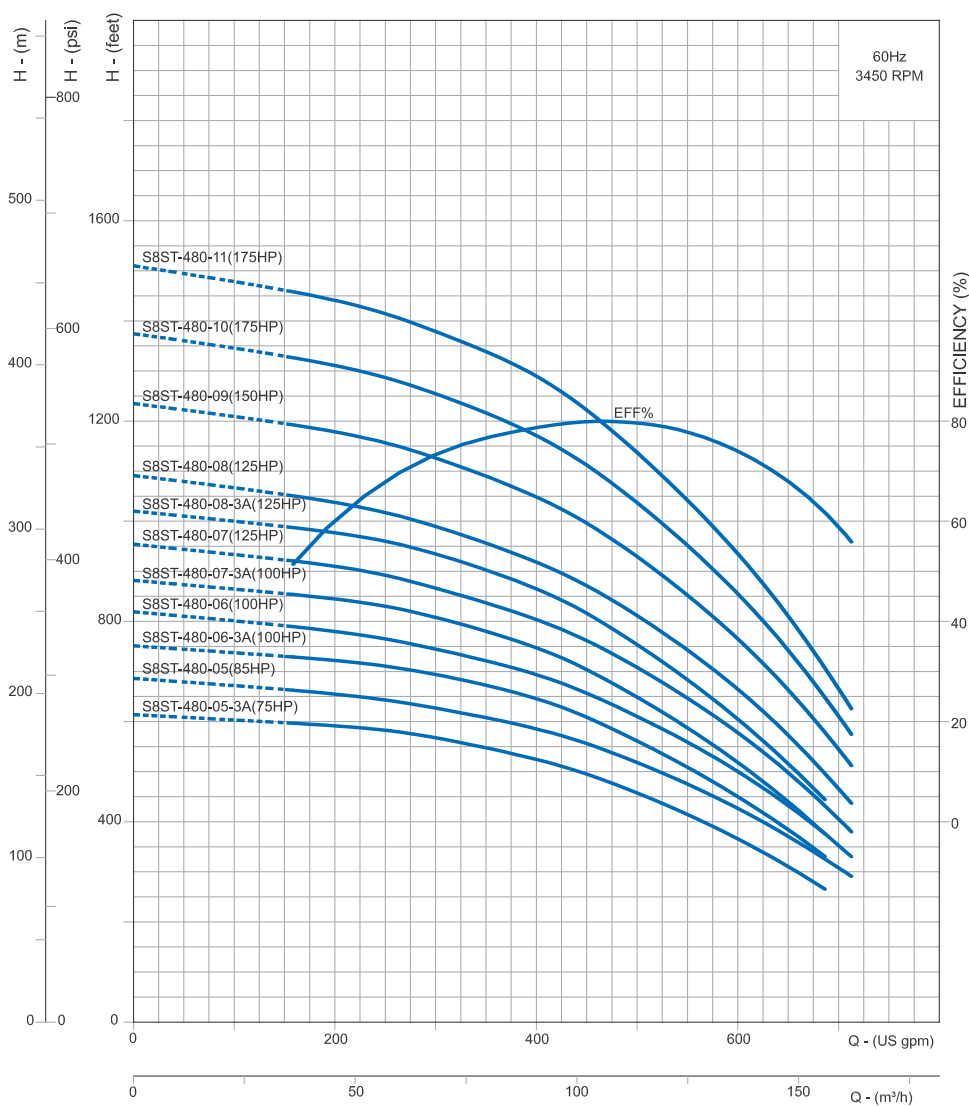
MICRO CAST STAINLESS STEEL GRAND SERIES

Nominal Diameter : **8"**

Nominal Flow : **480 gpm**

Outlet Size : **5" NPT**

PERFORMANCE CURVES

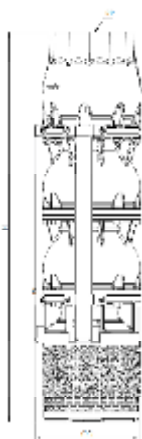


Refer General Information for performance curve conditions and for other details.

Curve tolerance according to ISO : 9906, Grade - 3B

In view of continuous developments, the given information / descriptions / specifications / illustrations are subject to change without notice.

MICRO CAST STAINLESS STEEL GRAND SERIES

Nominal Diameter : **8"**Nominal Flow : **640 gpm**Outlet Size : **5" NPT**

DIMENSIONS & WEIGHT TABLE

PUMP MODEL	Power		Dimensions				Net Weight in lbs	Gross Weight in lbs	Packing Box size in inches (L x B x H)		
			Maximum Outer Diameter (OD) in inches		Outlet Size in inches	Height in inches					
	kW	HP	Single Cable Guard	Double Cable Guard	RP	H					
S8ST-640-01-1A	11	15	8	8	5	23	75	108	35	9	9
S8ST-640-01	15	20	8	8	5	23	75	108	35	9	9
S8ST-640-02-2B	15	20	8	8	5	29	91	127	43	9	9
S8ST-640-02-2A	18.5	25	8	8	5	29	91	127	43	9	9
S8ST-640-02	22	30	8	8	5	29	91	127	43	9	9
S8ST-640-03-2B	30	40	8	8	5	35	108	144	43	9	9
S8ST-640-03-2A	30	40	8	8	5	35	108	144	43	9	9
S8ST-640-03	37	50	8	8	5	35	108	144	43	9	9
S8ST-640-04-2B	37	50	8	8	5	41	124	164	51	9	9
S8ST-640-04-2A	45	60	8	8	5	41	123	163	51	9	9
S8ST-640-04	45	60	8	8	5	41	123	163	51	9	9

PERFORMANCE TABLE

Product Code		Pump Model	Power		US GPM	0	132	264	396	528	640	660	792	925
Suitable for 6" motor	Suitable for 8" motor		kW	HP										
67384	-	S8ST-640-01-1A	11	15	HEAD IN FEET	115	107	98	90	82	73	69	48	0
67385	-	S8ST-640-01	15	20		130	120	112	102	92	83	79	62	0
67387	-	S8ST-640-02-2B	15	20		197	184	171	153	133	109	102	61	0
67386	-	S8ST-640-02-2A	18.5	25		226	210	195	177	159	137	131	92	0
67388	-	S8ST-640-02	22	30		256	236	220	202	183	162	158	124	0
67390	-	S8ST-640-03-2B	30	40		330	308	286	259	229	195	189	131	0
67389	-	S8ST-640-03-2A	30	40		356	331	308	282	251	222	215	161	0
74673	-	S8ST-640-03	37	50		385	359	334	307	276	248	241	187	0
74674	-	S8ST-640-04-2B	37	50		453	421	390	354	312	268	262	190	108
-	67392	S8ST-640-04-2A	45	60		495	459	428	392	354	312	305	71.5	0
-	67391	S8ST-640-04	45	60		523	485	449	415	376	337	331	264	156

*Third letter on model will be replaced as N for SS 316 MOC

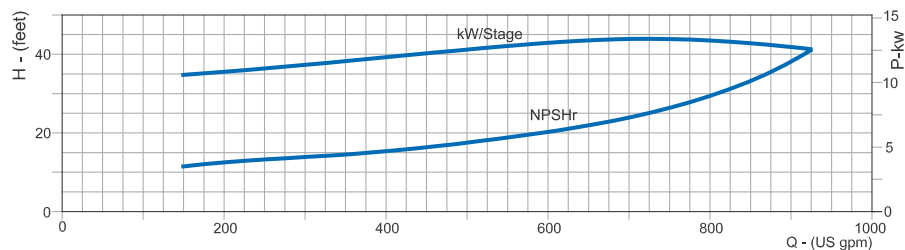
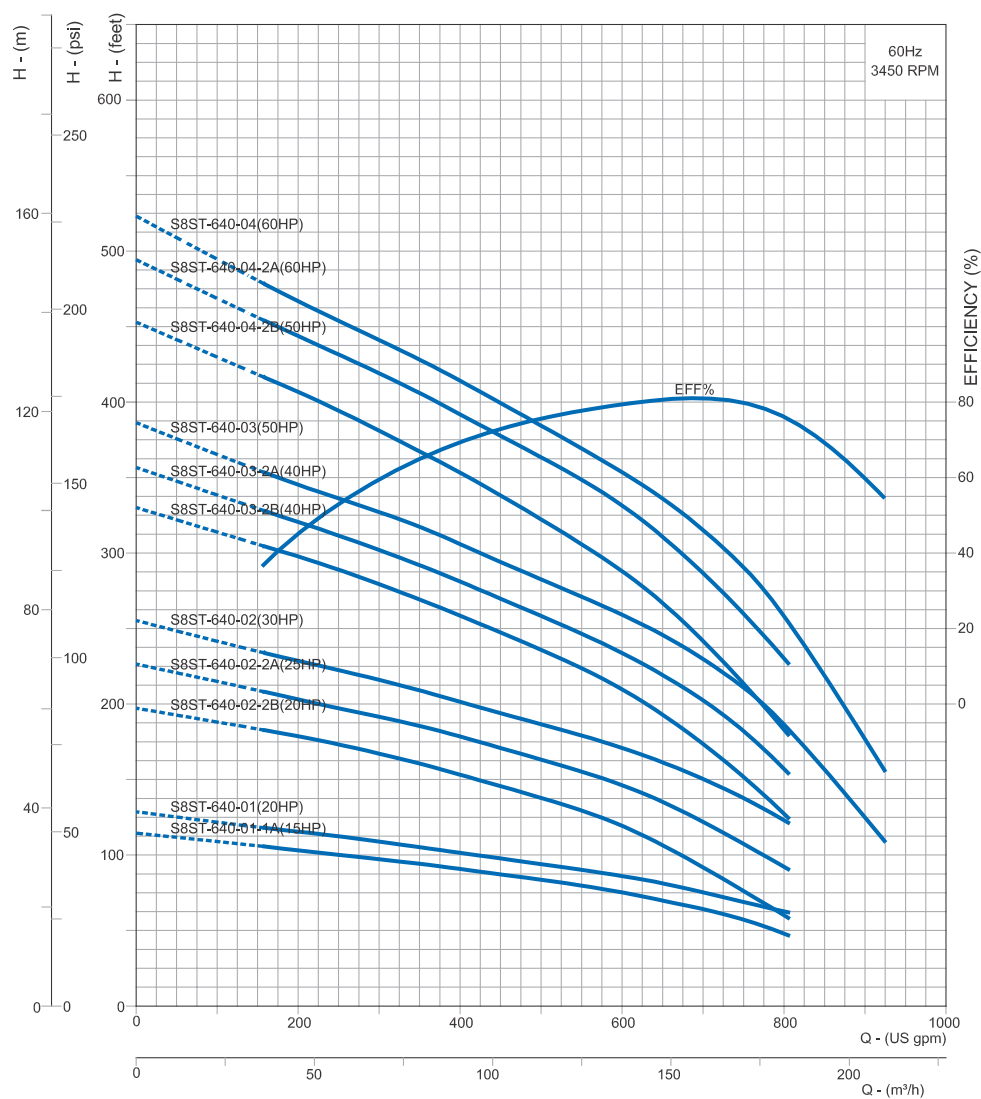
MICRO CAST STAINLESS STEEL GRAND SERIES

Nominal Diameter : **8"**

Nominal Flow : **640 gpm**

Outlet Size : **5" NPT**

PERFORMANCE CURVES



Refer General Information for performance curve conditions and for other details.

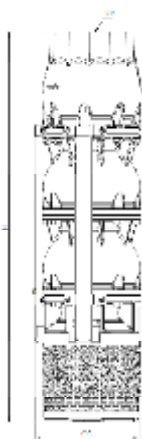
Curve tolerance according to ISO : 9906, Grade - 3B

In view of continuous developments, the given information / descriptions / specifications / illustrations are subject to change without notice.

MICRO CAST STAINLESS STEEL GRAND SERIES

Nominal Diameter : **8"**Nominal Flow : **640 gpm**Outlet Size : **5" NPT**

DIMENSIONS & WEIGHT TABLE



PUMP MODEL	Power		Dimensions				Net Weight in lbs	Gross Weight in lbs	Packing Box size in inches (L x B x H)		
			Maximum Outer Diameter (OD) in inches		Outlet Size in inches	Height in inches					
	kW	HP	Single Cable Guard	Double Cable Guard	RP	H					
S8ST-640-05-3A	55	75	8	8	5	47	140	183	59	9	9
S8ST-640-05	55	75	8	8	5	47	140	183	59	9	9
S8ST-640-06-3A	75	100	8	8	5	53	156	203	67	9	9
S8ST-640-06-1A	75	100	8	8	5	53	156	203	67	9	9
S8ST-640-07-3A	75	100	8	8	5	59	173	220	67	9	9
S8ST-640-07	93	125	8	8	5	59	173	220	67	9	9
S8ST-640-08-3A	93	125	8	8	5	65	189	239	74	9	9
S8ST-640-08	93	125	8	8	5	65	189	239	74	9	9
S8ST-640-09	110	150	8	8	5	71	208	262	71	9	9
S8ST-640-10	130	175	8	8	5	77	224	280	87	9	9
S8ST-640-11	130	175	8	8	5	83	241	298	87	9	9

PERFORMANCE TABLE

Product Code			Pump Model	Power		US GPM	0	132	264	396	528	640	660	792	925
Suitable for 8" motor	Suitable for 10" motor			kW	HP										
	Spline	Keyway													
67394	-	-	S8ST-640-05-3A	55	75	HEAD IN FEET	617	579	538	495	449	395	387	289	0
67393	-	-	S8ST-640-05	55	75		664	617	574	532	482	435	426	339	0
67396	-	-	S8ST-640-06-3A	75	100		751	697	649	598	539	480	471	356	212
67395	-	-	S8ST-640-06-1A	75	100		779	727	679	625	564	510	496	389	0
67398	-	-	S8ST-640-07-3A	75	100		751	697	649	598	539	555	471	356	212
67397	-	-	S8ST-640-07	93	125		921	855	792	731	665	600	581	454	277
67400	-	-	S8ST-640-08-3A	93	125		1009	935	874	798	720	640	625	479	0
67399	-	-	S8ST-640-08	93	125		1051	972	905	835	754	680	666	528	321
-	74675	74676	S8ST-640-09	110	150		1193	1111	1032	953	869	785	765	613	381
-	74301	74302	S8ST-640-10	130	175		1331	1238	1154	1064	966	875	856	686	426
-	74303	74304	S8ST-640-11	130	175		1460	1358	1268	1169	1059	960	940	751	462

*Third letter on model will be replaced as N for SS 316 MOC

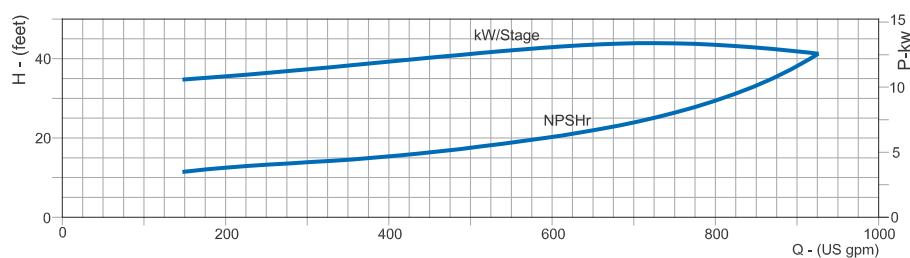
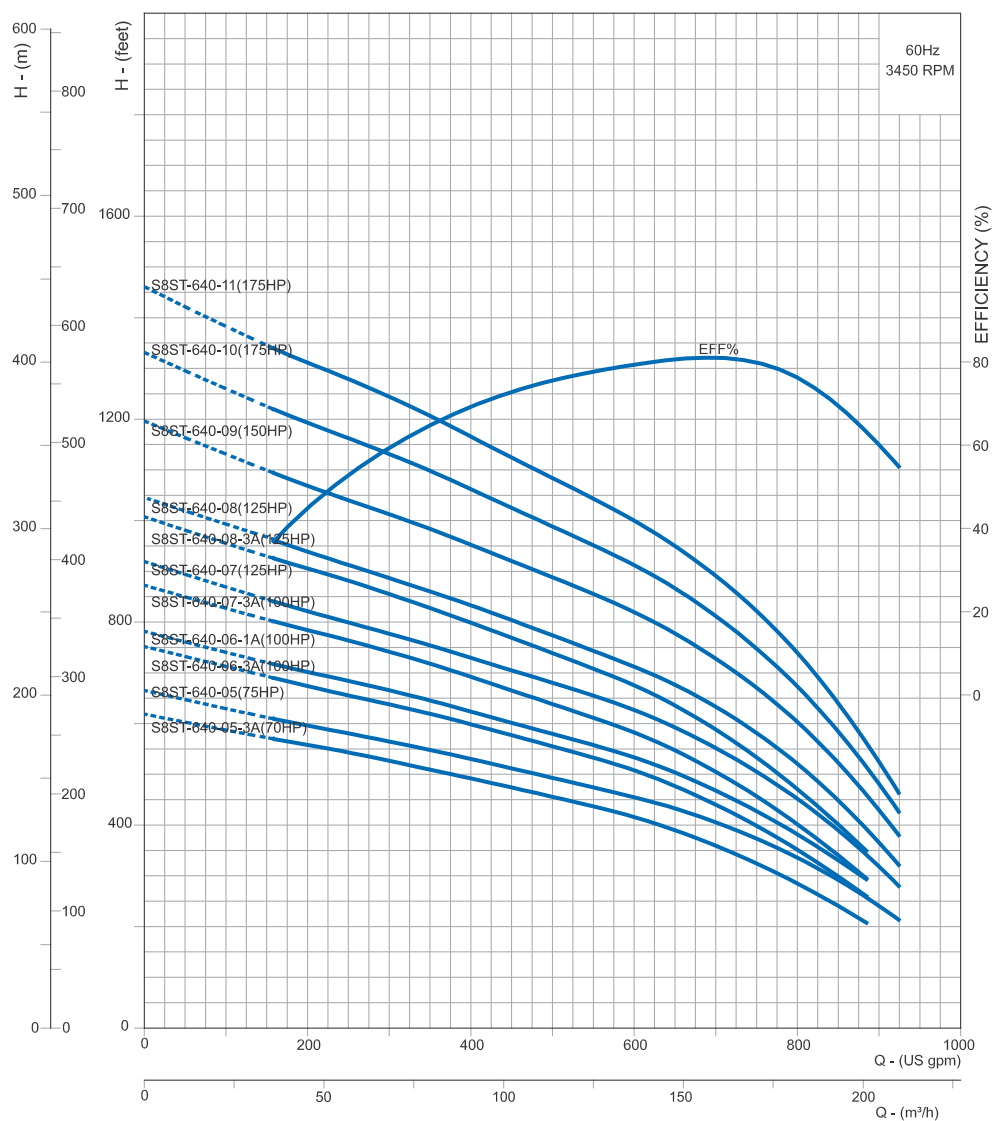
MICRO CAST STAINLESS STEEL GRAND SERIES

Nominal Diameter : **8"**

Nominal Flow : **640 gpm**

Outlet Size : **5" NPT**

PERFORMANCE CURVES



Refer General Information for performance curve conditions and for other details.

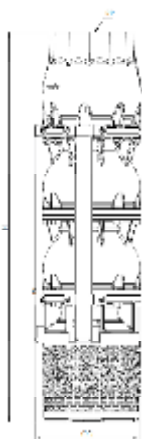
Curve tolerance according to ISO : 9906, Grade - 3B

In view of continuous developments, the given information / descriptions / specifications / illustrations are subject to change without notice.

MICRO CAST STAINLESS STEEL GRAND SERIES

Nominal Diameter : **10"**Nominal Flow : **760 gpm**Outlet Size : **6" NPT**

DIMENSIONS & WEIGHT TABLE



PUMP MODEL	Power		Dimensions			Net Weight in lbs	Gross Weight in lbs	Packing Box size in inches (L x B x H)		
			Maximum Outer Diameter (OD) in inches	Outlet Size in inches	Height in inches					
	kW	HP	Double Cable Guard	RP	H					
S10ST-760-01-1C	18.5	25	10	6	27	115	164	39	11	11
S10ST-760-01-1E	22	30	10	6	27	115	164	39	11	11
S10ST-760-01	30	40	10	6	27	115	164	39	11	11
S10ST-760-02-2C	37	50	10	6	36	153	206	47	11	11
S10ST-760-02-2E	45	60	10	6	36	153	206	47	11	11
S10ST-760-02-1A	55	75	10	6	36	153	206	47	11	11
S10ST-760-03-2C	75	100	10	6	45	209	266	55	11	11
S10ST-760-03-2B	75	100	10	6	45	209	266	55	11	11
S10ST-760-03-1A	93	125	10	6	45	209	266	55	11	11
S10ST-760-04-2C	93	125	10	6	53	247	308	63	11	11
S10ST-760-04-2B	110	150	10	6	53	247	308	63	11	11
S10ST-760-04	130	175	10	6	53	247	308	63	11	11

PERFORMANCE TABLE

Product Code			Pump Model	Power		US GPM	0	132	396	528	660	760	792	925
Suitable for 6" motor	Suitable for 8" motor	Suitable for 10" motor		kW	HP									
66933	-	-	S10ST-760-01-1C	18.5	25	HEAD IN FEET	162	154	142	130	113	96	89	64
66934	-	-	S10ST-760-01-1E	22	30		184	177	162	153	136	119	113	88
66935	-	-	S10ST-760-01	30	40		213	205	194	188	169	154	148	116
74139	-	-	S10ST-760-02-2C	37	50		325	313	286	262	228	194	182	130
-	66937	-	S10ST-760-02-2E	45	60		366	351	322	302	268	239	225	174
-	66936	-	S10ST-760-02-1A	55	75		418	402	379	359	327	298	286	236
-	66940	-	S10ST-760-03-2C	75	100		538	518	479	448	397	347	330	251
-	66939	-	S10ST-760-03-2B	75	100		589	567	526	497	448	403	384	308
-	66938	-	S10ST-760-03-1A	93	125		633	610	575	548	500	455	437	364
-	66943	-	S10ST-760-04-2C	93	125		753	722	674	630	566	503	479	377
-	-	74140 74141(KW)	S10ST-760-04-2B	110	150		820	788	740	698	635	575	553	453
-	-	66941 66942(KW)	S10ST-760-04	130	175		868	837	790	753	690	635	609	511

*Third letter on model will be replaced as N for SS 316 MOC

KW - Keyway Coupling

In view of continuous developments, the given information / descriptions / specifications / illustrations are subject to change without notice.

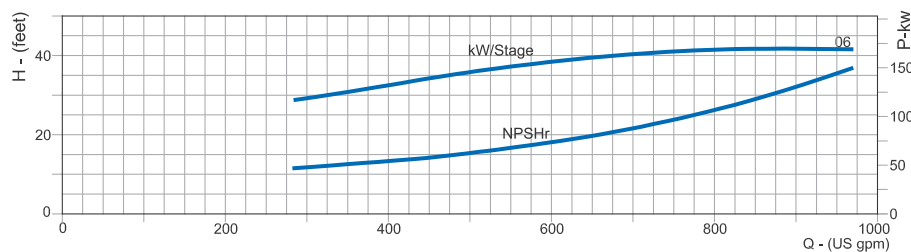
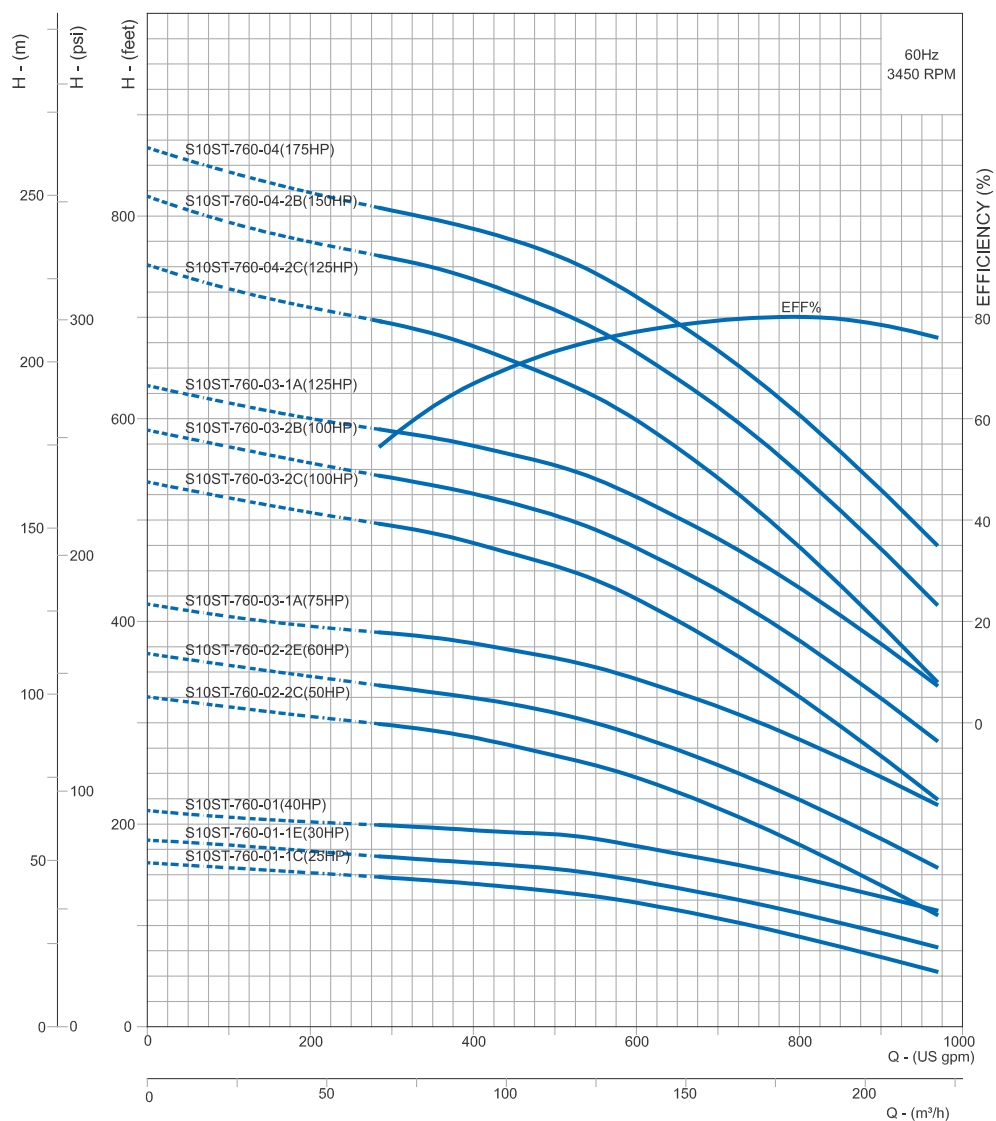
MICRO CAST STAINLESS STEEL GRAND SERIES

Nominal Diameter : **10"**

Nominal Flow : **760 gpm**

Outlet Size : **6" NPT**

PERFORMANCE CURVES

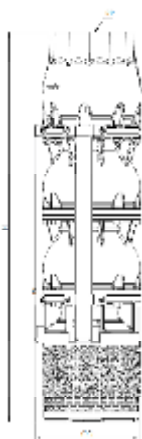


Refer General Information for performance curve conditions and for other details.

Curve tolerance according to ISO : 9906, Grade - 3B

In view of continuous developments, the given information / descriptions / specifications / illustrations are subject to change without notice.

MICRO CAST STAINLESS STEEL GRAND SERIES

Nominal Diameter : **10"**Nominal Flow : **760 gpm**Outlet Size : **6" NPT**
DIMENSIONS & WEIGHT TABLE

PUMP MODEL	Power		Dimensions			Net Weight in lbs	Gross Weight in lbs	Packing Box size in inches (L x B x H)		
			Maximum Outer Diameter (OD) in inches	Outlet Size in inches	Height in inches					
	kW	HP	Double Cable Guard	RP	H					
S10ST-760-05-2C	130	175	10	6	62	284	350	71	11	11
S10ST-760-05-2B	130	175	10	6	62	284	350	71	11	11
S10ST-760-05	150	200	10	6	62	284	350	71	11	11
S10ST-760-06-2C	150	200	10	6	70	322	392	79	11	11

PERFORMANCE TABLE

Product Code		Pump Model	Power		US GPM	0	132	264	396	528	660	760	792
Suitable for 10" motor			kW	HP									
Spline	Keyway												
66948	66949	S10ST-760-05-2C	130	175	HEAD IN FEET	978	941	910	875	829	748	670	642
66946	66947	S10ST-760-05-2B	130	175		1025	989	958	927	879	799	725	696
66944	66945	S10ST-760-05	150	200		1081	1043	1014	984	941	861	785	763
66950	74001	S10ST-760-06-2C	150	200		1197	1150	1114	1076	1015	922	830	793

*Third letter on model will be replaced as N for SS 316 MOC

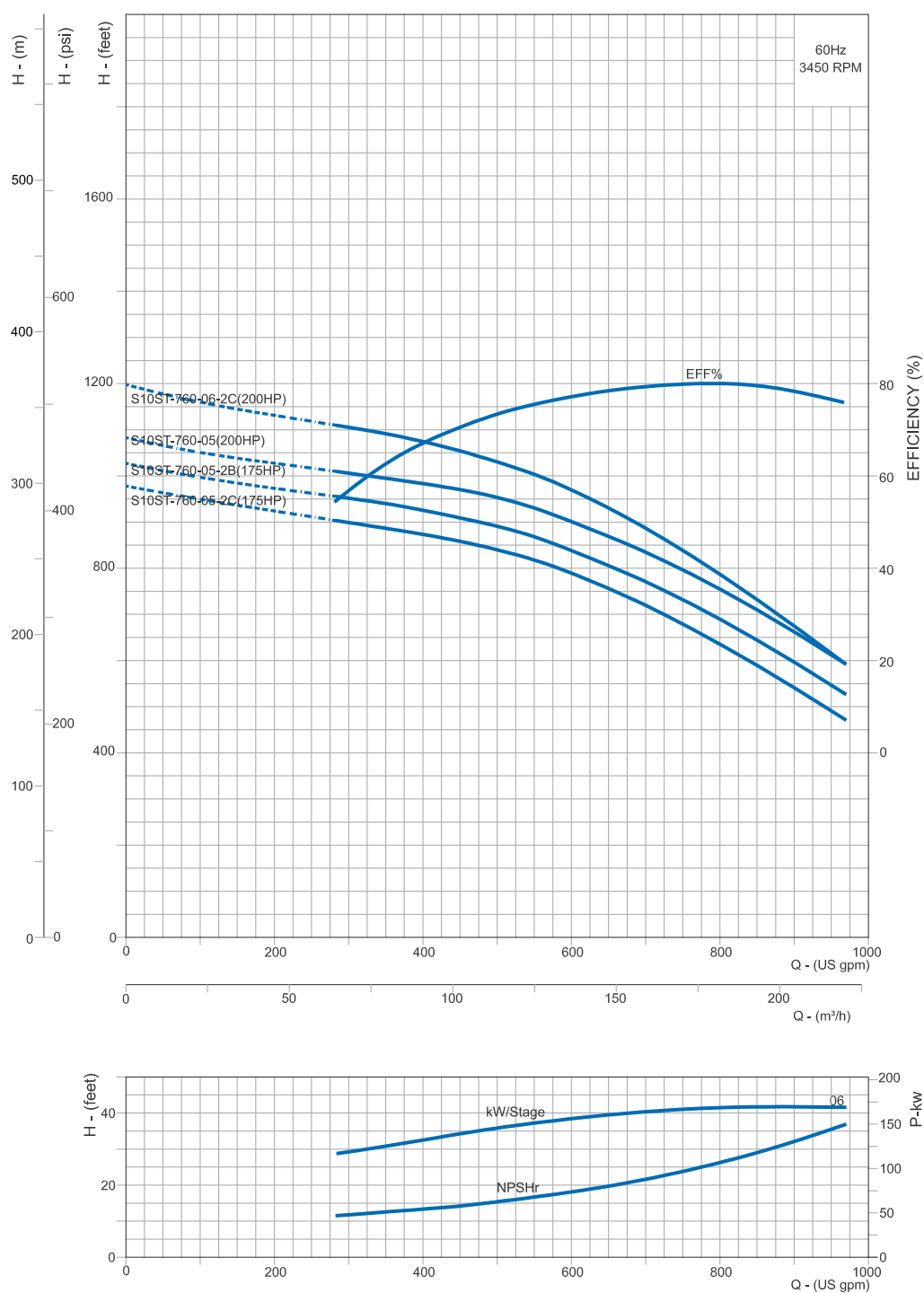
MICRO CAST STAINLESS STEEL GRAND SERIES

Nominal Diameter : **10"**

Nominal Flow : **760 gpm**

Outlet Size : **6" NPT**

PERFORMANCE CURVES



Refer General Information for performance curve conditions and for other details.

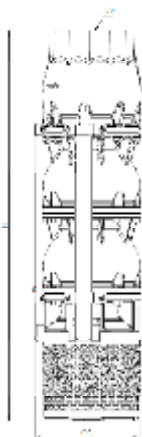
Curve tolerance according to ISO : 9906, Grade - 3B

In view of continuous developments, the given information / descriptions / specifications / illustrations are subject to change without notice.

MICRO CAST STAINLESS STEEL GRAND SERIES

Nominal Diameter : **10"**Nominal Flow : **A125 gpm**Outlet Size : **6" NPT**

DIMENSIONS & WEIGHT TABLE



PUMP MODEL	Power		Dimensions			Net Weight in lbs	Gross Weight in lbs	Packing Box size in inches (L x B x H)		
			Maximum Outer Diameter (OD) in inches	Outlet Size in inches	Height in inches					
	kW	HP	Double Cable Guard	RP	H					
S10ST-A125-01-1J	22	30	10	6	27	114	162	39	11	11
S10ST-A125-01-1G	30	40	10	6	27	114	162	39	11	11
S10ST-A125-01-1E	37	50	10	6	27	114	162	39	11	11
S10ST-A125-01	45	60	10	6	27	114	162	39	11	11
S10ST-A125-02-2C	55	75	10	6	36	149	202	47	11	11
S10ST-A125-02-2G	63	85	10	6	36	149	202	47	11	11
S10ST-A125-02-2B	75	100	10	6	36	149	202	47	11	11
S10ST-A125-02-2E	75	100	10	6	36	149	202	47	11	11
S10ST-A125-02	93	125	10	6	36	149	202	47	11	11
S10ST-A125-03-3B	110	150	10	6	45	203	260	55	11	11
S10ST-A125-03-3E	110	150	10	6	45	203	260	55	11	11
S10ST-A125-03-1B	130	175	10	6	45	203	260	55	11	11
S10ST-A125-03	130	175	10	6	45	203	260	55	11	11
S10ST-A125-04-3B	150	200	10	6	53	239	300	63	11	11
S10ST-A125-04-2B	150	200	10	6	53	239	300	63	11	11

PERFORMANCE TABLE

Product Code				Pump Model	Power		US GPM	0	264	528	792	1057	1125	1321
Suitable for 6" motor	Suitable for 8" motor	Suitable for 10" motor Splines	Suitable for 10" motor Keyway		kW	HP								
66918	-	-	-	S10ST-A125-01-1J	22	30	HEAD IN FEET	138	131	116	98	74	68	34
66917	-	-	-	S10ST-A125-01-1G	30	40		172	162	153	139	113	110	79
43187	-	-	-	S10ST-A125-01-1E	37	50		194	184	174	162	140	137	108
-	66919	-	-	S10ST-A125-01	45	60		218	200	190	179	159	156	130
-	66921	-	-	S10ST-A125-02-2C	55	75		320	295	276	243	195	182	125
-	66923	-	-	S10ST-A125-02-2G	63	85		344	326	305	276	230	218	161
-	66920	-	-	S10ST-A125-02-2B	75	100		361	343	321	294	249	237	182
-	66922	-	-	S10ST-A125-02-2E	75	100		385	369	348	322	280	265	217
-	66924	-	-	S10ST-A125-02	93	125		430	406	381	359	322	311	264
-	-	43188	43189	S10ST-A125-03-3B	110	150		548	520	494	451	384	362	286
-	-	43190	43191	S10ST-A125-03-3E	110	150		591	562	530	494	431	413	338
-	-	66927	66928	S10ST-A125-03-1B	130	175		617	582	549	512	457	437	366
-	-	66925	66926	S10ST-A125-03	130	175		649	611	576	543	490	472	406
-	-	66931	66932	S10ST-A125-04-3B	150	200		767	726	688	635	552	525	424
-	-	66929	66930	S10ST-A125-04-2B	150	200		796	786	741	693	618	567	498

*Third letter on model will be replaced as N for SS 316 MOC

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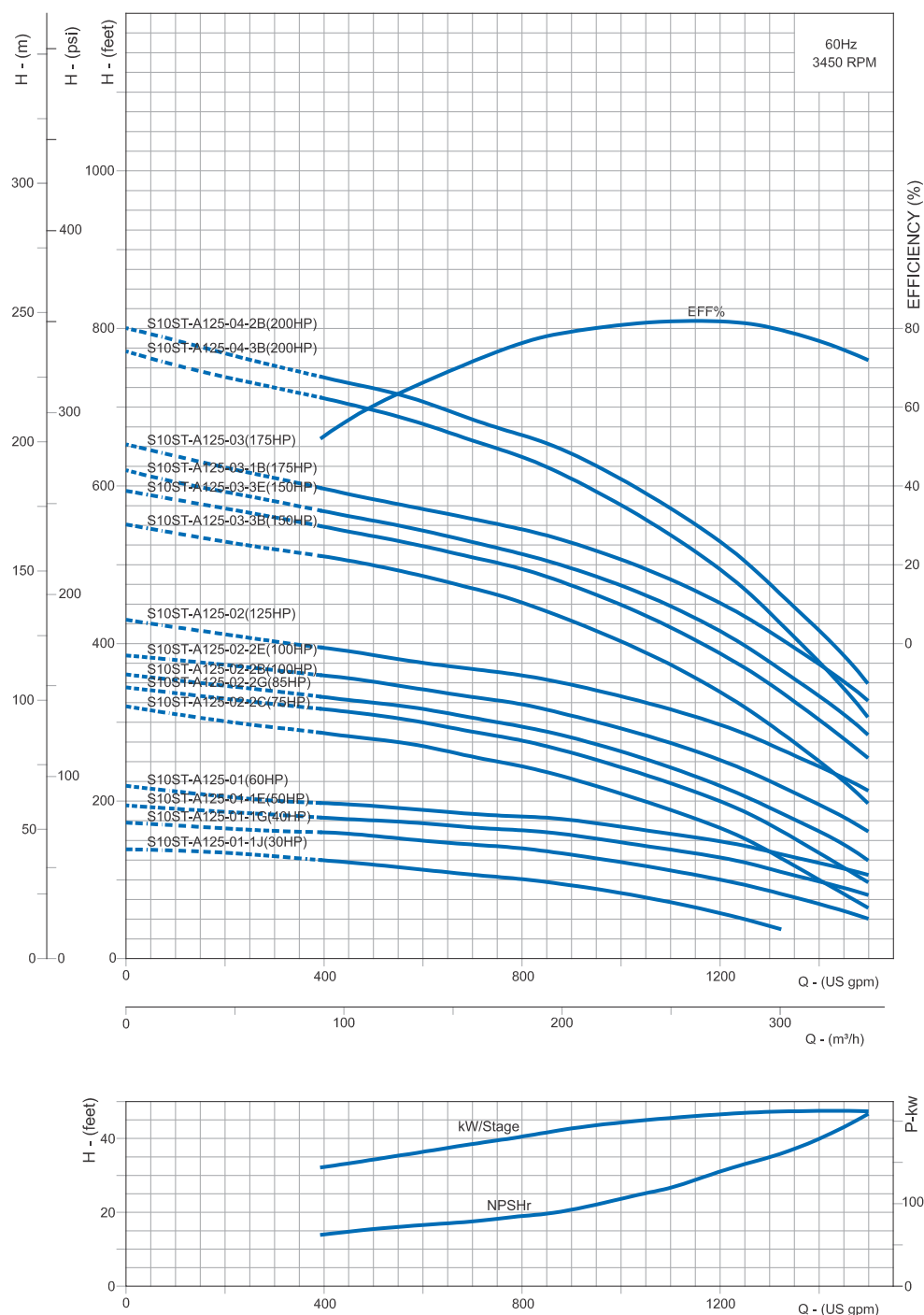
MICRO CAST STAINLESS STEEL GRAND SERIES

Nominal Diameter : **10"**

Nominal Flow : **A125 gpm**

Outlet Size : **6" NPT**

PERFORMANCE CURVES



FRICTION LOSS TABLE

Grade	Light	Medium	Heavy
Nominal Dia in Inches	Rate of Flow in gpm	Rate of Flow in gpm	Rate of Flow in gpm
1½	30 - 43	28 - 42	25 - 38
2	44 - 83	43 - 79	39 - 72
2½	84 - 158	80 - 156	73 - 146
3	159 - 247	157 - 238	147 - 226
4	248 - 490	239 - 476	227 - 455
5	-	477 - 834	456 - 816
6	-	835 - 1337	817 - 1312

Note : Permissible Range of Volume Rate of Flow in GPM through **Galvanized Steel** Pipe to limit Friction losses to 10% of the Pipe Length.

Grade	Class (36.25 psi)	Class (58 psi)	Class (87 psi)
Nominal Dia in Inches	Rate of Flow in gpm	Rate of Flow in gpm	Rate of Flow in gpm
1½	-	-	Up to 32
2	-	-	33 - 59
2½	-	60 - 115	60 - 108
3	-	116 - 182	109 - 171
3½	183 - 311	183 - 294	172 - 276
4	312 - 528	295 - 504	277 - 472
5	529 - 740	505 - 704	473 - 658
5½	741 - 999	705 - 946	659 - 889
6½	1000 - 1418	947 - 1349	892 - 1267

Note : Permissible Range of Volume Rate of Flow in GPM through **RPVC** Pipe to limit Friction losses to 10% of the Pipe Length.

FRICION LOSS TABLE

FRICION LOSS IN METERS FOR 10 METERS LONG NEW STEEL GALVANIZED PIPE (C = 140)

Nominal Pipe Outer dia In mm / inches	25/ 1"	32/ 1¼"	40/ 1½"	50/ 2"	65/ 2½"	80/ 3"	100/ 4"	125/ 5"	150/ 6"
Volume rate of flow lps									
0.50	0.364								
1.00	1.315	0.341							
1.25	1.988	0.516	0.246						
1.60	3.140	0.814	0.388						
2.00		1.231	0.587						
2.50		1.861	0.888	0.282					
3.2		2.940	1.402	0.446	0.126				
4.0			2.120	0.674	0.190				
5.0			3.205	1.019	0.288				
8.0				2.433	0.887	0.313			
10.0				3.678	1.038	0.474	0.131		
12.5					1.570	0.716	0.198		
16					2.479	1.131	0.312	0.111	
20					3.747	1.710	0.472	0.167	
25						2.585	0.713	0.253	0.106
32						4.033	1.127	0.400	0.157
40							1.704	0.605	0.252
50							2.576	0.914	0.351
60								1.281	0.534
80								0.182	0.910
100								3.299	1.376
125									0.051

FRICION LOSS IN METERS FOR 10 METERS LONG NEW RPVC PIPE (C = 150)

Nominal Pipe Outer dia In mm / inches	40/ 1½"	50/ 2"	63/ 2½"	75/ 3"	90/ 3½"	110/ 4¼"	125/ 5"	140/ 5½"	160/ 6¼"
Volume rate of flow lps									
0.50	0.074								
1.00	0.268								
1.25	0.405	0.131							
1.60	0.640	0.211							
2.00	0.967	0.310							
2.50	1.462	0.483	0.150						
3.20	2.309	0.762	0.250	0.106					
4.0	3.491	1.153	0.377	0.160					
5.0		1.742	0.571	0.242					
8.0		4.161	1.363	0.577	0.237				
10.0			2.060	0.873	0.358	0.133			
12.5			3.114	1.319	0.542	0.201			
16			4.919	2.084	0.856	0.317	0.172		
20				3.151	1.293	0.479	0.260		
25					1.955	0.725	0.392	0.225	0.117
32					3.089	1.145	0.020	0.355	0.184
40						1.731	0.937	0.537	0.279
50						2.617	1.416	0.812	0.421
60						3.008	1.985	1.138	0.590
80							3.382	1.939	1.006
100								2.931	1.521
125									2.299

FRICTION LOSS TABLE

PERMISSIBLE RANGE OF VOLUME RATES OF FLOW IN I/S THROUGH GALVANIZED STEEL PIPE TO LIMIT FRICTION LOSSES TO 10 PERCENT OF THE PIPE LENGTH

Grade ➡	Light	Medium	Heavy
Nominal pipe dia in mm ↓	Rate of flow in lps	Rate of flow in lps	Rate of flow in lps
40	1.90 - 2.74	1.79 - 2.67	1.59 - 2.41
50	2.74 - 5.24	2.67 - 4.95	2.41 - 4.54
65	5.24 - 9.97	4.95 - 9.80	4.54 - 9.17
80	9.97 - 15.54	9.80 - 14.97	9.17 - 14.20
100	15.54 - 30.84	14.97 - 30.0	14.20 - 28.67
125	-	30.0 - 52.50	28.67 - 51.37
150	-	52.50 - 84.18	51.37 - 82.63

PERMISSIBLE RANGE OF VOLUME RATES OF FLOW IN I/S THROUGH RPVC PIPE TO LIMIT FRICTION LOSSES TO 10 PERCENT OF THE PIPE LENGTH

Grade ➡	Class (0.25Mpa)	Class (0.4Mpa)	Class (0.6Mpa)
Nominal pipe dia in mm ↓	Rate of flow in lps	Rate of flow in lps	Rate of flow in lps
40	-	-	Up to 2.04
50	-	-	2.04 - 3.70
63	-	3.80 - 7.24	3.70 - 6.77
75	-	7.24 - 11.47	6.77 - 10.76
90	11.50 - 19.58	11.47 - 18.50	10.76 - 17.41
110	19.58 - 33.25	18.59 - 31.71	17.41 - 29.75
125	33.25 - 46.63	31.71 - 44.33	29.75 - 41.44
140	46.63 - 62.92	44.33 - 59.79	41.44 - 55.97
160	62.92 - 89.28	59.79 - 84.95	55.97 - 79.76

CONVERSION TABLE

FLOW RATE

litre per second l/s	litre per minute l/min	cubic meter per hour m³/h	cubic foot per hour ft³/h	cubic foot per minute ft³/min	Imp.gallon per minute Imp.gal./min	US gallon per minute Us gal./min	Us barrel per day ls barrel/d (Petroleum)
1	60	3.6	127.133	2.1189	13.2	15.85	543.439
0.017	1	0.06	2.1189	0.0353	0.22	0.264	9.057
0.278	16.667	1	35.3147	0.5886	3.666	4.403	150.955
0.008	0.472	0.0283	1	0.0167	0.104	0.125	4.275
0.472	28.317	1.6990	60	1	6.229	7.480	256.475
0.076	4.546	0.2728	9.6326	0.1605	1	1.201	41.175
0.063	3.785	0.2271	8.0209	0.1337	0.833	1	34.286
0.002	0.110	0.0066	0.2339	0.0039	0.024	0.029	1

LIQUID

Cubic meter m³	litre l	Milli litre ml	Imp. gallon Imp. Gal	US gallon US gal	cubic foot ft³
1	1000	1 x 10 ⁶	220	264.2	35.3147
0.001	1	1000	0.22	0.2642	0.0353
1 x 10 ⁻⁶	0.001	1	2.2 X 10 ⁻⁴	2.642 x 10 ⁻⁴	3.53 x 10 ⁻⁵
0.00455	4.546	4546	1	1.201	0.1605
0.00378	3.785	3785	0.8327	1	0.1337
0.0283	28.317	28317	6.2288	7.4805	1

LIQUID HEAD AND PRESSURE

newton per square meter N/m² (Pa)	kilo pascal kPa	bar	kilogram force per square centimeter Kg/cm²	pound force per square inch psi	foot for water ft H ₂ O	meter of water m H ₂ O	millimeter of mercury mm Hg	inch of mercury in Hg
1	0.001	1 x 10 ⁻⁵	1.02 x 10 ⁻⁵	1.45 x 10 ⁻⁴	3.35 x 10 ⁻⁴	1.02 x 10 ⁻⁴	0.0075	2.95 x 10 ⁻⁴
1000	1	0.01	0.0102	0.145	0.335	0.102	7.5	0.295
1 x 10 ⁻⁵	100	1	1.02	14.5	33.52	10.2	750.1	29.53
98,067	98.07	0.981	1	14.22	32.81	10	735.6	28.96
6895	6.895	0.069	0.0703	1	2.31	0.703	51.72	2.036
2984	2.984	0.03	0.0305	0.433	1	0.305	22.42	0.882
9789	9.789	0.098	0.1	1.42	3.28	1	73.42	2.891
133.3	0.133	0.0013	0.0014	0.019	0.045	0.014	1	0.039
3386	3.386	0.0338	0.0345	0.491	1.133	0.0345	25.4	1

LENGTH

millimeter mm	centimeter cm	meter m	inch in	foot ft	yard yd
1	0.1	0.001	0.0394	0.0033	0.0011
10	1	0.01	0.3937	0.0328	0.0109
1000	100	1	39.3701	3.2808	1.0936
25.4	2.54	0.0254	1	0.0833	0.0278
304.8	30.48	0.3048	12	1	0.3333
914.4	91.44	0.9144	36	3	1

1 Kilometer = 1000 metres = 0.62137 miles 1 mile = 1609.37 metres = 1.60934 kilometers

kilogram kg	pound lb	hundred weight (cwt)	tonne t	ton long tn	short ton sh tn
1	2.205	0.0197	0.001	9.84 x 10 ⁻⁴	0.0011
0.454	1	0.0089	4.54 x 10 ⁻⁴	4.46 x 10 ⁻⁴	5.0 x 10 ⁻⁵
50.802	112	1	0.0508	0.05	0.056
1000	2204.6	19.684	1	0.9842	1.1023
1016	2240	20	1.0161	1	1.102
907.2	2000	17.857	0.9072	0.8929	1

TEMPERATURE

To Convert From	To	Use Formula
Temperature Celsius, tc	Temperature Kelvin, tk	K = tc + 273.15
Temperature Fahrenheit, tf	Temperature Kelvin, tk	K = (tf + 459.67 / 1.8)
Temperature Celsius, tc	Temperature Fahrenheit, tf	F = 1.8 tc + 32
Temperature Fahrenheit, tf	Temperature Celsius, tc	C = (tf - 32) / 1.8
Temperature Kelvin, tk	Temperature Celsius, tc	C = tk - 273.15
Temperature Kelvin, tk	Temperature Fahrenheit, tf	F = 1.8tk - 459.67

NOTES

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W I N N I N G W A Y S

When you have a good thing going it is quite in the fitting of things that recognitions come our way. Several prestigious awards, which decorate our shelf, say it all. These rewards not only acknowledge our position as a leader in the water pump industry but also serve as reminders about what the customer expects from a winner. And we, as ever, have our ears perfectly tuned to customer expectations.



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