

SGS

High-speed centrifugal pump

Source Pumps & Systems Co., LTD.

www.sourcegroup.com.cn

Product overview

SGS series high speed pump is single-stage、radial split overhung pump, gear box is integrated in this series of pump, SGS pump can be installed as horizontal and vertical type. SGS is manufactured according to API610 10th, and can satisfy 8th,9th standard.

SGS pump has such features: simple structure、small radial size、high rigidity and high strength shaft、running smoothly、high reliability、small installation space、less components、easy to maintain and repair.

The gear box accelerate the speed of SGS pump, highly increase the RPM and specific speed, keep high efficiency under small flow and high head condition.

SGS pump equips with forced lubricated slide bearing and gear, shows excellent lubrication and cooling effect, the running of gear box is stable and reliable.

SGS pump can equip with single seal、double seal, can install all types of seal plan, suitable for many kinds of medium.

E.G. SGS-W3-25/630

SGS — Product line code
W3 — Design feature code
L1 — One-stroke accelerate vertical pump, coupling transmission, forced lubrication, max power input is 37kw
L2 — Two-stroke accelerate vertical pump, coupling transmission, forced lubrication, max power input is 160kw
W1 — One-stroke accelerate horizontal pump, direct connection, splash lubrication, max power input is 22kw, use single seal only
W2 — One-stroke accelerate horizontal pump, coupling transmission, forced lubrication, max power input is 37kw
W3 — Two-stroke accelerate horizontal pump, coupling transmission, forced lubrication, max power input is 160kw
W4 — One-stroke accelerate horizontal pump, coupling transmission, forced lubrication, max power input is 315kw
25 — Design point flow (m3 / h)
630 — Design point head (m)

Type	SGS-L1	SGS-L2	SGS-W1	SGS-W2	SGS-W3	SGS-W4
Flow Range (m3/h)	-46	-90	-28	-46	-90	-120
Head Range (m)	-800	-1500	-300	-800	-1500	-1400
The biggest pressure (MPa)	3	7	2	3	7	10
Operating Pressure(MPa)	8	15	6	8	15	25
Maximum engine power output (KW)	37	160	22	37	160	3 15
Liquid Temperature (℃)	-80-+200	-80-+200	-80-+120	-80-+200	-80-+200	-80-+200

Application area

SGS series high speed pump is suitable for transporting the medium which is corrosive, viscosity is less than 500 cP, contains a certain concentration of solid particles. Mainly used as below:

Petrochemical and refinery: medium transport, loading, reactorfeed, recirculation supplyvessel cleaning
Power plant: primary feed fuel boiler, constant pressure operation, boiler feed, gas turbine fuel feed
Inorganic chemical: inorganic acid treatment, high pressure cleaning, synthetic fiber processing
Paper industry: washing operation, high pressure spray operation, mechanical atomization spent sulfite liquor, boiler feed
Environmental protection: dehumidification pump flue washing system, underground wastewater treatment, the removal of solids, sewage treatment
Other: oilfield water injection, rolling factory of detergent, high pressure hydraulic mining of coal mine, medicine, water circulation in food processing, boiler feed

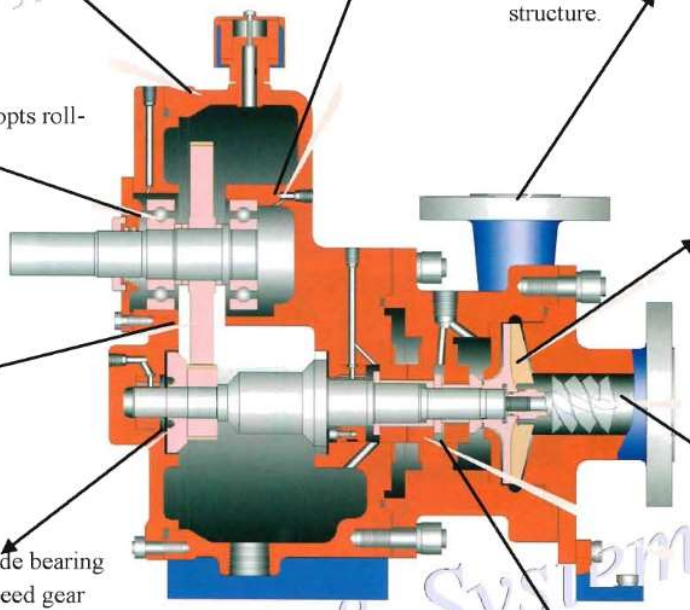
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Sectional Drawing - SGS

External forced lubrication system , the lubrication oil is forced to circulate by the oil pump through filter, heat exchanger, then lubricate every bearing and gear, create an ideal work environment for the components, make the pump has a long working life.

The gear box uses ductile cast iron, shows high intensity , good vibration absorbing performance, and stable operation.

The pressure limit can reach 11MPa，axial inlet and radial outlet, with the integral diffuser, compact structure.



Low speed gear adopts rolling bearing.

Open star radial impeller, 90 degree blade outlet, at the same impeller diameter, such type impeller can obtain higher pressure output, suitable for high head and small flow working condition. Impeller is forged with high precision, good strength.

High accuracy gear transmission is stable and high strength. Adopt with one-stroke gear accelerate system, top speed can reach 14300RPM.

Fluid forced slide bearing enables high speed gear shaft stable and reliable.

Equipped with high performance inducer, deeply reduce the NPSHr, SGS pump shows excellent anti-cavitation

Equipped with high speed seal，single seal, double seal or tandem seal can be selected for every kind of working condition.

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Sectional Drawing - SGS

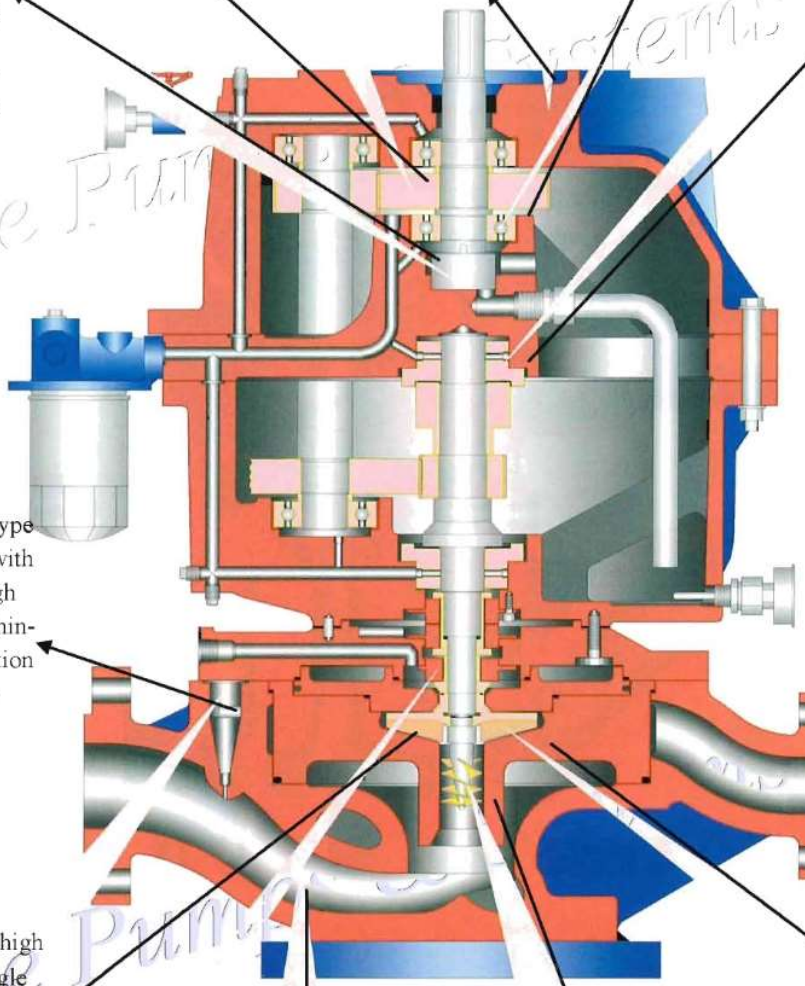
High accuracy gear transmission is stable and high strength. Adopt with two-stroke gear accelerate system, top speed can reach 22700RPM.

Low speed and medium speed gear adopt rolling bearing.

Internal or external forced lubrication system, the lubrication oil is forced to circulate by the oil pump or through filter, heat exchanger, then lubricate every bearing and gear, create an ideal work environment for the components, make the pump has a long working life.

High strength aluminum alloy gear box has the advantages of light weight, high strength, good heat exchanging effect.

Fluid forced slide bearing, enables high speed gear shaft stable and reliable.



.The diffuser type is an annular with cone heart, high precision machining, small friction loss, high efficiency.

.Equipped with high speed seal, single seal, double seal or tandem seal can be selected for every kind of working condition.

Pump body limit pressure can reach 15MPa, and equipped with swirl separator, suitable for medium containing solid, pipeline arrangement, small installation size, easy installation and maintenance.

Equipped with high performance inducer, deeply reduce the NPSHr, SGS pump shows excellent anti-cavitation performance.

Open star radial impeller, 90 degree blade outlet, at the same impeller diameter, such type impeller can obtain higher pressure output, suitable for high head and small flow working condition. Impeller is forged with high precision, good strength.

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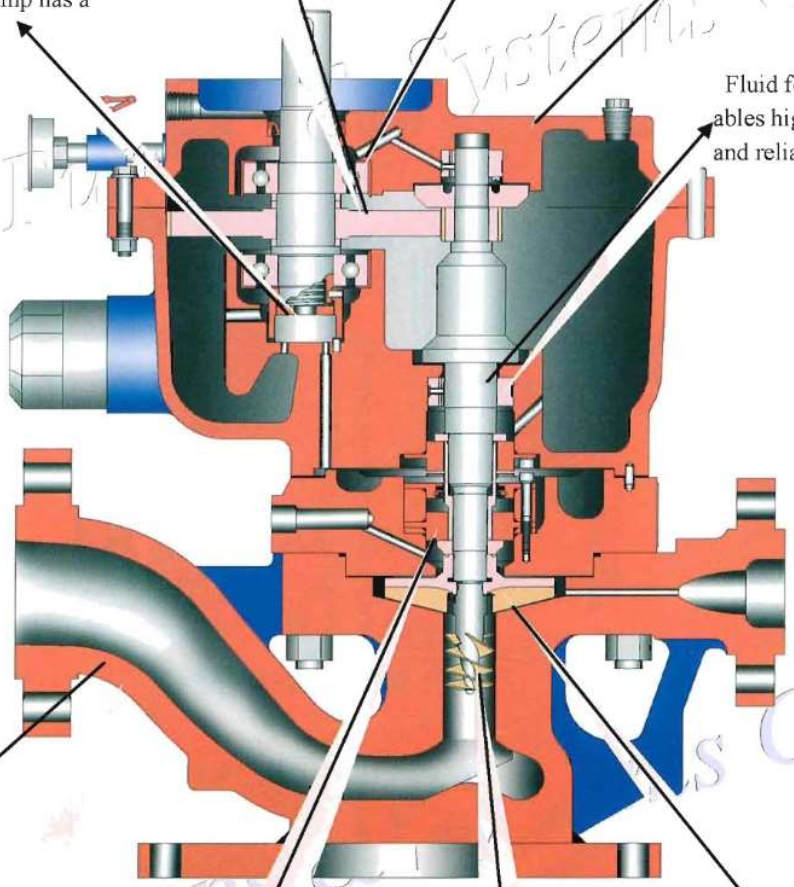
Sectional Drawing - SGS

Internal or external forced lubrication system, the lubrication oil is forced to circulate by the oil pump or through filter, heat exchanger, then lubricate every bearing and gear, create an ideal work environment for the components, make the pump has a long working life.

High accuracy gear transmission is stable and high strength. Adopt with one-stroke gear accelerate system, top speed can reach 14300RPM.

High strength aluminum alloy gear box has the advantages of light weight, high strength, good heat exchanging effect.

Low speed gear adopt rolling bearing.



Fluid forced slide bearing enables high speed gear shaft stable and reliable.

Pump body limit pressure can reach 11MPa, pipeline arrangement, small installation size, easy installation and maintenance.

Equipped with high speed seal, single seal, double seal or tandem seal can be selected for every kind of working condition.

Equipped with high performance inducer, deeply reduce the NPSHr, SGS pump shows excellent anti-cavitation performance.

Open star radial impeller, 90 degree blade outlet, at the same impeller diameter, such type impeller can obtain higher pressure output, suitable for high head and small flow working condition. Impeller is forged with high precision, good strength.

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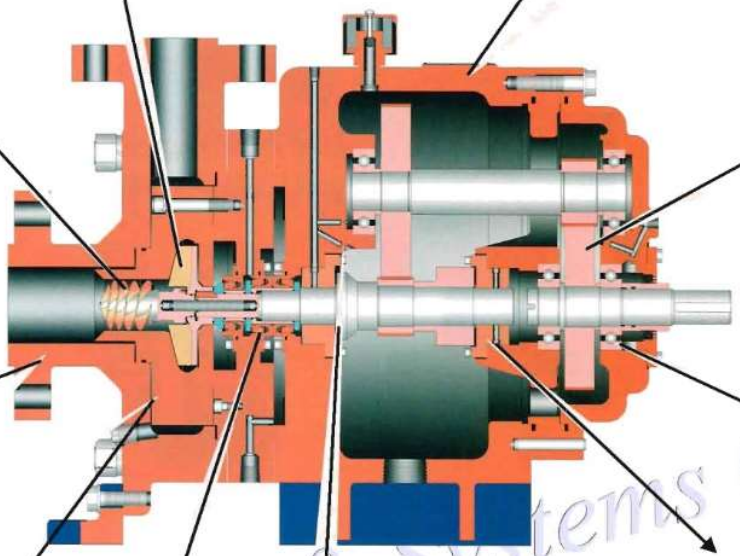
Sectional Drawing - SGS

Open star radial impeller, 90 degree blade outlet, at the same impeller diameter, such type impeller can obtain higher pressure output, suitable for high head and small flow working condition. Impeller is forged with high precision, good strength.

The gear box uses ductile cast iron, shows high intensity, good vibration absorbing performance, and stable operation.

Equipped with high performance inducer, deeply reduce the NPSHr, SGS pump shows excellent anti-cavitation performance.

High accuracy gear transmission is stable and high strength. Adopt with two-stroke gear accelerate system, top speed can reach 22700RPM.



ump body pressure limit can reach 15MPa, axial inlet and radial outlet, can use GB, ANS, HG, SH etc. standard flange.

Low speed and medium speed gear adopt rolling bearing.

Fluid forced slide bearing enables high speed gear shaft stable and reliable.

External forced lubrication system, the lubrication oil is forced to circulate by the oil pump through filter, heat exchanger, then lubricate every bearing and gear, create an ideal work environment for the components, make the pump has a long working life.

Equipped with high speed seal, single seal, double seal or tandem seal can be selected for every kind of working condition.

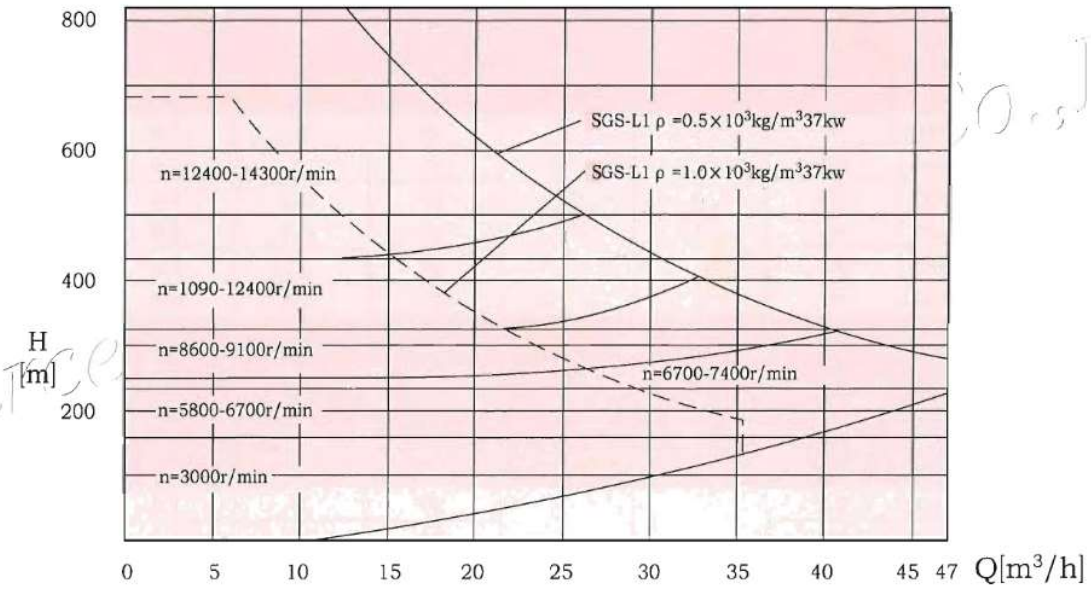
The diffuser type is an annular with cone heart, high precision machining, small friction loss, high efficiency.

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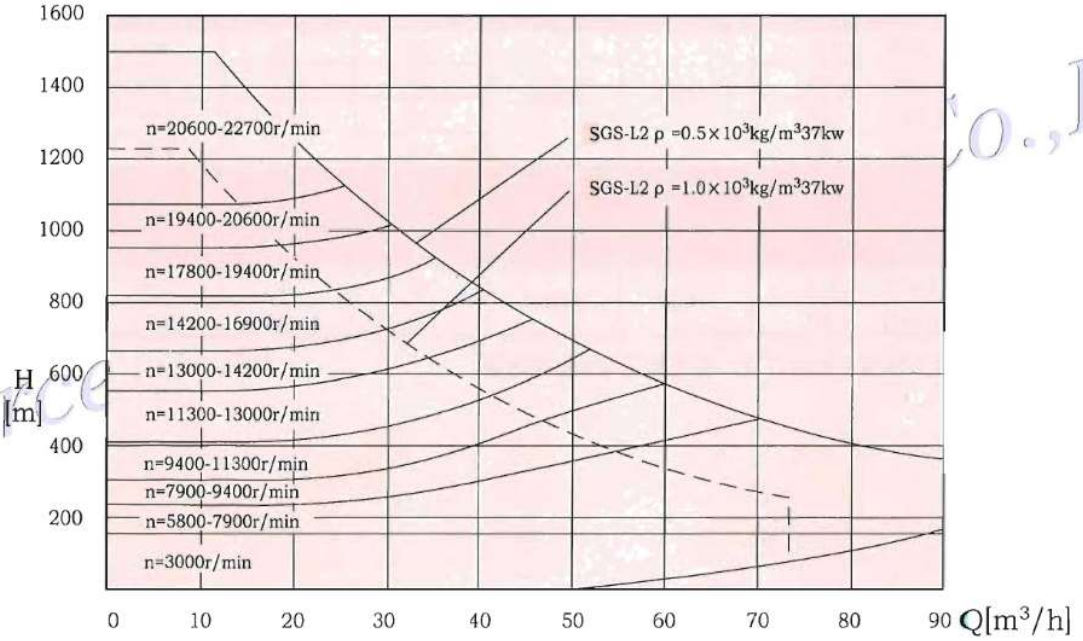
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Range of Performance

SGS-L1(W2)



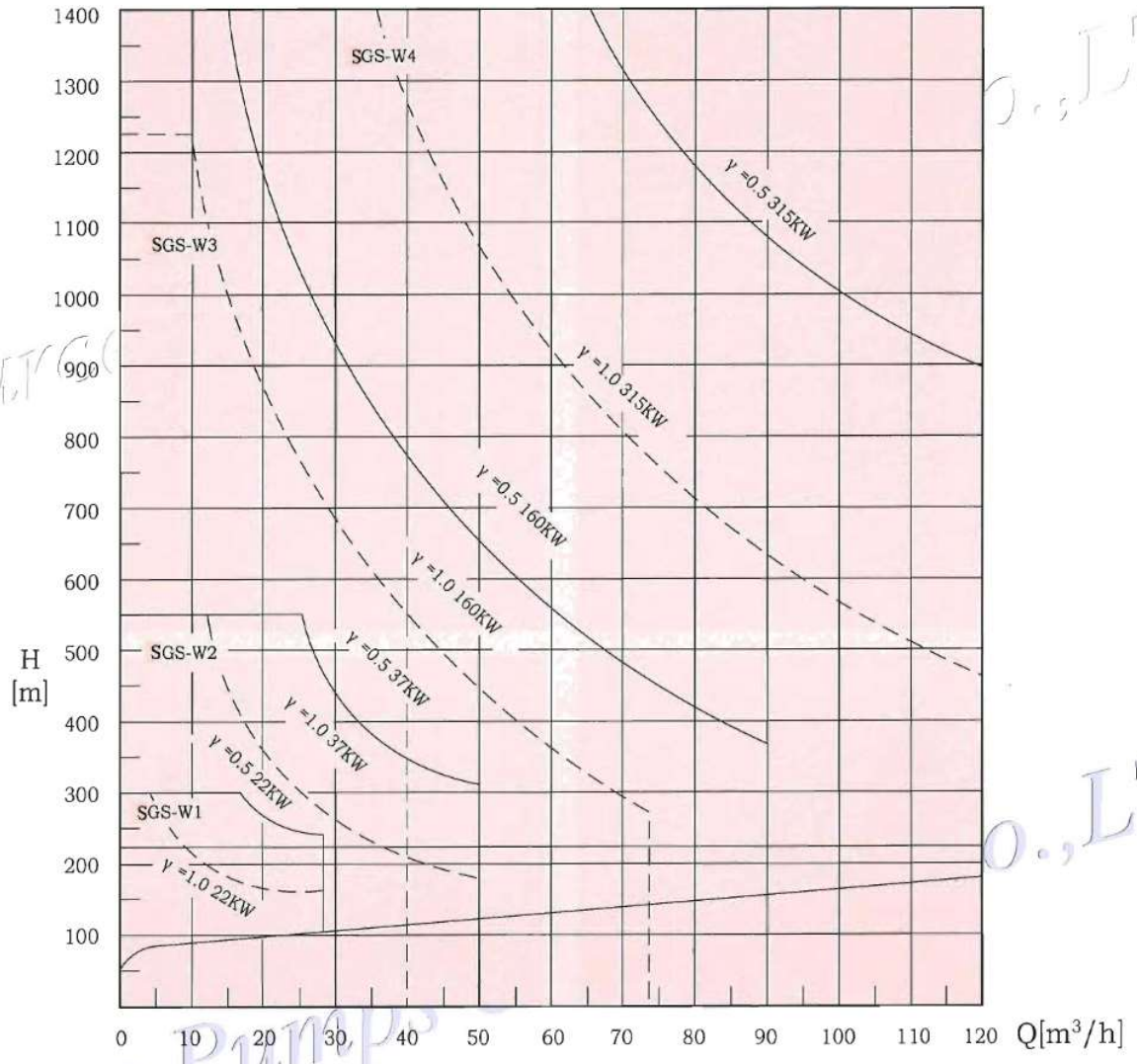
SGS-L2(W3)



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Range of Performance

SGS W1/W2/W3/W4



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Table of Standard Performance

SGS-L1(W2)

Type	Capacity Q (m^3/h)	Head H (m)	Speed (r/min)	Efficiency (%)	NPSH (m)	Proportion	Power and type (kw)
SGS-L1(W2)-2.5/125	2.5	125	5800	15	1.5	1.0	7.5
SGS-L1(W2)-4/125	4			20	1.5	1.0	11
SGS-L1(W2)-6.3/125	6.3			28	1.5	1.0	11
SGS-L1(W2)-2.5/140	2.5	140	5800	15	1.5	1.0	11
SGS-L1(W2)-4/140	4			21	1.5	1.0	11
SGS-L1(W2)-6.3/140	6.3			30	1.5	1.0	11
SGS-L1(W2)-10/140	10			37	1.5	1.0	15
SGS-L1(W2)-2.5/160	2.5	160	6700	15	1.8	1.0	11
SGS-L1(W2)-4/160	4			24	1.8	1.0	11
SGS-L1(W2)-6.3/160	6.3			32	1.8	1.0	11
SGS-L1(W2)-10/160	10			40	2	1.0	15
SGS-L1(W2)-16/160	16			47	2	1.0	18.5
SGS-L1(W2)-25/160	25			52	2	1.0	30
SGS-L1(W2)-2.5/180	2.5	180	6700	14	1.8	1.0	11
SGS-L1(W2)-4/180	4			22	1.8	1.0	15
SGS-L1(W2)-6.3/180	6.3			30	1.8	1.0	15
SGS-L1(W2)-10/180	10			37	2	1.0	18.5
SGS-L1(W2)-16/180	16			46	2	1.0	22
SGS-L1(W2)-25/180	25			52	2	1.0	30
SGS-L1(W2)-40/180	40			56	2.5	0.85	37
SGS-L1(W2)-2.5/200	2.5	200	7400	16	1.8	1.0	11
SGS-L1(W2)-4/200	4			20	1.8	1.0	15
SGS-L1(W2)-6.3/200	6.3			26	2	1.0	18.5
SGS-L1(W2)-10/200	10			37	2	1.0	18.5
SGS-L1(W2)-16/200	16			46	2.5	1.0	22
SGS-L1(W2)-25/200	25			52	2.5	1.0	37
SGS-L1(W2)-40/200	40			56	3	0.8	37
SGS-L1(W2)-2.5/224	2.5	224	7400	15	1.8	1.0	15
SGS-L1(W2)-4/224	4			18	1.8	1.0	18.5
SGS-L1(W2)-6.3/224	6.3			24	2	1.0	22
SGS-L1(W2)-10/224	10			34	2	1.0	22
SGS-L1(W2)-16/224	16			44	2.5	1.0	30
SGS-L1(W2)-25/224	25			51	2.5	1.0	37
SGS-L1(W2)-40/224	40			55	3	0.7	37
SGS-L1(W2)-2.5/250	2.5	250	8600	15	1.8	1.0	15
SGS-L1(W2)-4/250	4			22	1.8	1.0	18.5
SGS-L1(W2)-6.3/250	6.3			28	2	1.0	22
SGS-L1(W2)-10/250	10			35	2	1.0	30
SGS-L1(W2)-16/250	16			46	2.5	1.0	30
SGS-L1(W2)-25/250	25		7400	50	2.5	0.85	37
SGS-L1(W2)-40/250	40			56	3	0.6	37
SGS-L1(W2)-2.5/280	2.5	280	8600	14	1.8	1.0	18.5
SGS-L1(W2)-4/280	4			20	1.8	1.0	22
SGS-L1(W2)-6.3/280	6.3			25	2	1.0	30

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Table of Standard Performance

SGS-L1(W2)

Type	Capacity Q (m^3/h)	Head H (m)	Speed (r/min)	Efficiency (%)	NPSH (m)	Proportion	Power and type (kw)
SGS-L1(W2)-10/280	10	280	8600	35	2	1.0	30
SGS-L1(W2)-16/280	16			43	2.5	1.0	37
SGS-L1(W2)-25/280	25		9100	51	2.5	0.8	37
SGS-L1(W2)-40/280	40			55	3	0.55	37
SGS-L1(W2)-2.5/315	2.5	315	9100	15	1.8	1.0	18.5
SGS-L1(W2)-4/315	4			20	1.8	1.0	22
SGS-L1(W2)-6.3/315	6.3			26	2	1.0	30
SGS-L1(W2)-10/315	10			35	2	1.0	30
SGS-L1(W2)-16/315	16			44	2.5	1.0	37
SGS-L1(W2)-25/315	25			51	2.5	0.7	37
SGS-L1(W2)-40/315	40			55	3	0.5	37
SGS-L1(W2)-4/355	4	355	10900	20	1.8	1.0	30
SGS-L1(W2)-6.3/355	6.3			26	2	1.0	30
SGS-L1(W2)-10/355	10			36	2	1.0	37
SGS-L1(W2)-16/355	16			43	2.5	0.85	37
SGS-L1(W2)-25/355	25			50	2.5	0.65	37
SGS-L1(W2)-4/400	4	400	10900	17	1.8	1.0	37
SGS-L1(W2)-6.3/400	6.3			24	2	1.0	37
SGS-L1(W2)-10/400	10			33	2	0.9	37
SGS-L1(W2)-16/400	16			41	2.5	0.7	37
SGS-L1(W2)-25/400	25			47	2.5	0.5	37
SGS-L1(W2)-4/450	4	450	12400	24	2	1.0	30
SGS-L1(W2)-6.3/450	6.3			28	2	1.0	37
SGS-L1(W2)-10/450	10			36	2.5	0.85	37
SGS-L1(W2)-16/450	16			44	2.5	0.65	37
SGS-L1(W2)-25/450	25			50	3	0.5	37
SGS-L1(W2)-4/500	4	500	12400	23	2	1.0	30
SGS-L1(W2)-6.3/500	6.3			27	2	1.0	37
SGS-L1(W2)-10/500	10			35	2.5	0.75	37
SGS-L1(W2)-16/500	16			43	2.5	0.6	37
SGS-L1(W2)-4/560	4	560	12400	21	2	1.0	37
SGS-L1(W2)-6.3/560	6.3			25	2	0.8	37
SGS-L1(W2)-10/560	10			32	2.5	0.65	37
SGS-L1(W2)-16/560	16		14300	43	3.5	0.5	37
SGS-L1(W2)-4/630	4	630	14300	19	3	0.85	37
SGS-L1(W2)-6.3/630	6.3			25	3	0.7	37
SGS-L1(W2)-10/630	10			32	3.5	0.55	37
SGS-L1(W2)-4/710	4	710	14300	18	3	0.7	37
SGS-L1(W2)-6.3/710	6.3			22	3	0.55	37
SGS-L1(W2)-4/800	4	800	14300	17	3	0.6	37

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Table of Standard Performance

SGS-L2(W3)

Type	Capacity Q (m^3/h)	Head H (m)	Speed (r/min)	Efficiency (%)	NPSH (m)	Proportion	Power and type (kw)
SGS-L2(W3)-25/180	25	180	5800	47	2	1.0	37
SGS-L2(W3)-40/180	40			55	2.5	1.0	45
SGS-L2(W3)-63/180	63			55	3	1.0	75
SGS-L2(W3)-80/180	80			55	4	1.0	90
SGS-L2(W3)-25/200	25	200	7900	52	2.5	1.0	37
SGS-L2(W3)-40/200	40			56	3	1.0	55
SGS-L2(W3)-63/200	63			57	3	1.0	75
SGS-L2(W3)-80/200	80			56	4	1.0	110
SGS-L2(W3)-16/244	16	244	7900	41	2.5	1.0	30
SGS-L2(W3)-25/244	25			51	2.5	1.0	37
SGS-L2(W3)-40/244	40			54	3	1.0	55
SGS-L2(W3)-63/244	63			57	3	1.0	90
SGS-L2(W3)-80/244	80			56	4	1.0	110
SGS-L2(W3)-10/250	10	250	7900	35	2	1.0	30
SGS-L2(W3)-16/250	16			40	2.5	1.0	37
SGS-L2(W3)-25/250	25			50	2.5	1.0	45
SGS-L2(W3)-40/250	40			53	3	1.0	75
SGS-L2(W3)-63/250	63			56	3	1.0	90
SGS-L2(W3)-80/250	80			54	4	1.0	132
SGS-L2(W3)-6.3/280	6.3	280	9400	24	2	1.0	30
SGS-L2(W3)-10/280	10			33	2.5	1.0	30
SGS-L2(W3)-16/280	16			42	2.5	1.0	37
SGS-L2(W3)-25/280	25			50	3	1.0	55
SGS-L2(W3)-40/280	40			55	3	1.0	75
SGS-L2(W3)-63/280	63			54	4	1.0	110
SGS-L2(W3)-80/280	80			54	4.5	1.0	132
SGS-L2(W3)-6.3/315	6.3	315	9400	20	2	1.0	37
SGS-L2(W3)-10/315	10			30	2.5	1.0	37
SGS-L2(W3)-16/315	16			40	2.5	1.0	45
SGS-L2(W3)-25/315	25			48	3	1.0	55
SGS-L2(W3)-40/315	40			55	3	1.0	75
SGS-L2(W3)-63/315	63			54	4	1.0	132
SGS-L2(W3)-80/315	80			54	4.5	1.0	160
SGS-L2(W3)-4/355	4	355	11300	23	1.8	1.0	22
SGS-L2(W3)-6.3/355	6.3			29	2	1.0	30
SGS-L2(W3)-10/355	10			36	2.5	1.0	37
SGS-L2(W3)-16/355	16	355	11300	43	2.5	1.0	45
SGS-L2(W3)-25/355	25			51	3	1.0	75
SGS-L2(W3)-40/355	40			55	3	1.0	90
SGS-L2(W3)-63/355	63			53	4	1.0	132
SGS-L2(W3)-80/355	80			51	5	0.9	160

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Table of Standard Performance

SGS-L2(W3)

Type	Capacity Q (m^3/h)	Head H (m)	Speed (r/min)	Efficiency (%)	NPSH (m)	Proportion	Power and type (kw)
SGS-L2(W3)-4/400	4	400	11300	20	1.8	1.0	30
SGS-L2(W3)-6.3/400	6.3			27	2	1.0	37
SGS-L2(W3)-10/400	10			34	2.5	1.0	45
SGS-L2(W3)-16/400	16			41	2.5	1.0	55
SGS-L2(W3)-25/400	25			48	3	1.0	75
SGS-L2(W3)-40/400	40			55	3	1.0	110
SGS-L2(W3)-63/400	63			55	4	1.0	160
SGS-L2(W3)-80/400	80			53	5	0.8	160
SGS-L2(W3)-4/450	4	450	11300	19	1.8	1.0	37
SGS-L2(W3)-6.3/450	6.3			25	2	1.0	37
SGS-L2(W3)-10/450	10			32	2.5	1.0	45
SGS-L2(W3)-16/450	16			38	2.5	1.0	75
SGS-L2(W3)-25/450	25			46	3	1.0	90
SGS-L2(W3)-40/450	40			55	3	1.0	110
SGS-L2(W3)-63/450	63			55	4	1.0	160
SGS-L2(W3)-80/450	80			55	5	0.7	160
SGS-L2(W3)-4/500	4	500	13000	18	2	1.0	37
SGS-L2(W3)-6.3/500	6.3			23	2.5	1.0	45
SGS-L2(W3)-10/500	10			33	3	1.0	55
SGS-L2(W3)-16/500	16			41	3	1.0	75
SGS-L2(W3)-25/500	25			47	4	1.0	90
SGS-L2(W3)-40/500	40			53	4	1.0	132
SGS-L2(W3)-63/500	63			55	5	0.85	160
SGS-L2(W3)-80/500	80			56	6	0.65	160
SGS-L2(W3)-4/560	4	560	13000	16	2	1.0	45
SGS-L2(W3)-6.3/560	6.3			21	2.5	1.0	55
SGS-L2(W3)-10/560	10			31	3	1.0	75
SGS-L2(W3)-16/560	16			39	3	1.0	90
SGS-L2(W3)-25/560	25			46	4	1.0	110
SGS-L2(W3)-40/560	40			54	4	1.0	132
SGS-L2(W3)-63/560	63			56	5	0.75	160
SGS-L2(W3)-4/630	4	630	14200	17	2	1.0	55
SGS-L2(W3)-6.3/630	6.3			24	2.5	1.0	55
SGS-L2(W3)-10/630	10			32	3	1.0	75
SGS-L2(W3)-16/630	16			40	3	1.0	90
SGS-L2(W3)-25/630	25			47	4	1.0	110
SGS-L2(W3)-40/630	40			53	4	1.0	160
SGS-L2(W3)-63/630	63			55	5	0.7	160
SGS-L2(W3)-4/710	4	710	14200	15	2	1.0	75
SGS-L2(W3)-6.3/710	6.3			22	2.5	1.0	75
SGS-L2(W3)-10/710	10			28	3	1.0	90

SOURCE

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Table of Standard Performance

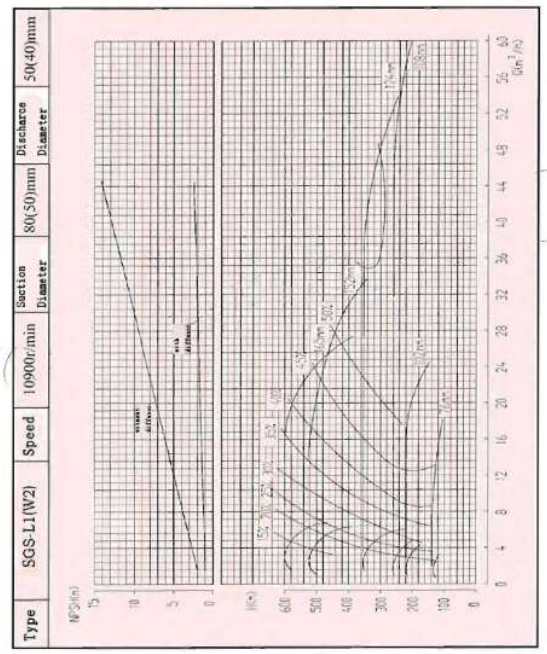
SGS-L2(W3)

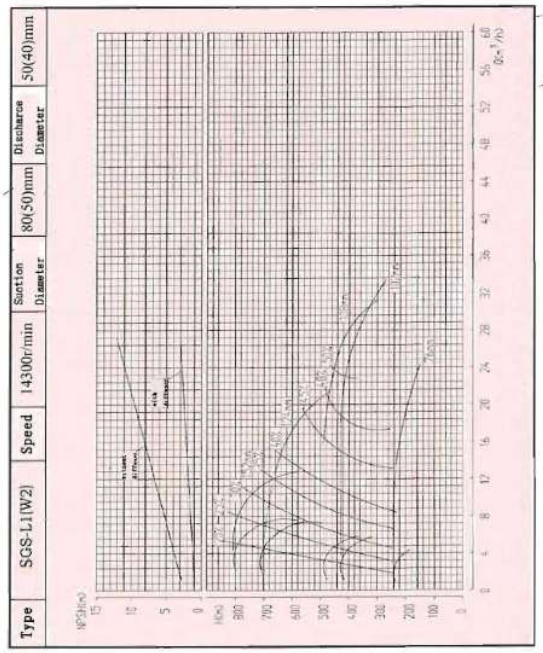
Type	Capacity Q (m^3/h)	Head H (m)	Speed (r/min)	Efficiency (%)	NPSH (m)	Proportion	Power and type (kw)
SGS-L2(W3)-16/710	16	710	14200	37	3	1.0	110
SGS-L2(W3)-25/710	25			45	4	1.0	132
SGS-L2(W3)-40/710	40			52	4	0.9	160
SGS-L2(W3)-4/800	4	800	16900	16	2.5	1.0	75
SGS-L2(W3)-6.3/800	6.3			23	3	1.0	75
SGS-L2(W3)-10/800	10			30	3.5	1.0	90
SGS-L2(W3)-16/800	16			37	3.5	1.0	132
SGS-L2(W3)-25/800	25			46	4.5	1.0	160
SGS-L2(W3)-40/800	40			52	5	0.8	160
SGS-L2(W3)-6.3/900	6.3	900	17800	22	3	1.0	90
SGS-L2(W3)-10/900	10			31	3.5	1.0	110
SGS-L2(W3)-16/900	16			38	3.5	1.0	132
SGS-L2(W3)-25/900	25			45	4.5	1.0	160
SGS-L2(W3)-40/900	40			51	5	0.7	160
SGS-L2(W3)-6.3/1000	6.3	1000	17800	20	3	1.0	110
SGS-L2(W3)-10/1000	10			28	3.5	1.0	132
SGS-L2(W3)-16/1000	16			36	3.5	1.0	160
SGS-L2(W3)-25/1000	25			43	4.5	0.85	160
SGS-L2(W3)-6.3/1120	6.3	1120	19400	21	3	1.0	132
SGS-L2(W3)-10/1120	10			27	3.5	1.0	160
SGS-L2(W3)-16/1120	16			35	3.5	1.0	160
SGS-L2(W3)-25/1120	25			43	4.5	0.75	160
SGS-L2(W3)-6.3/1250	6.3	1250	20600	20	3.5	1.0	132
SGS-L2(W3)-10/1250	10			27	3.5	1.0	160
SGS-L2(W3)-16/1250	16			36	4.5	0.9	160
SGS-L2(W3)-25/1250	25			43	5	0.65	160
SGS-L2(W3)-6.3/1400	6.3	1400	22700	21	4	1.0	160
SGS-L2(W3)-10/1400	10			28	4	1.0	160
SGS-L2(W3)-16/1400	16			36	5	0.8	160
SGS-L2(W3)-6.3/1600	6.3	1600	22700	18	4	0.9	160
SGS-L2(W3)-10/1600	10			25	4	0.75	160

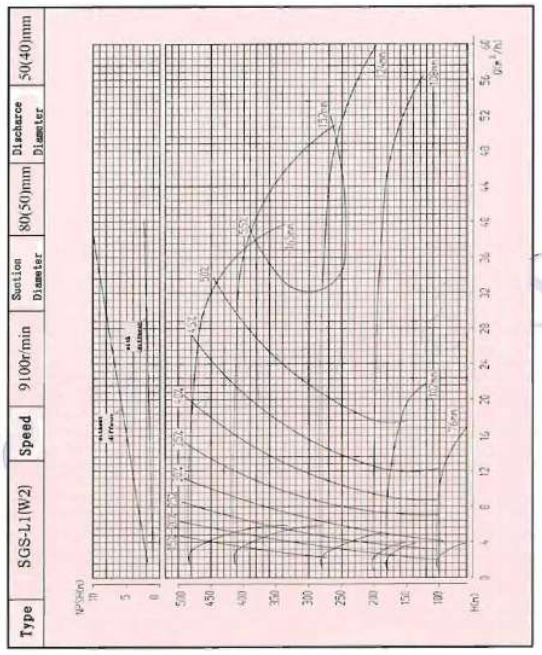
Source Pumps & Systems LTD.

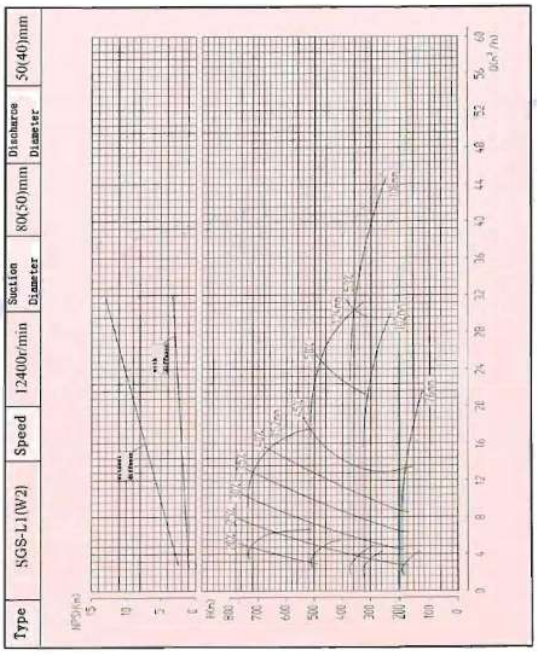
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Performance Curve



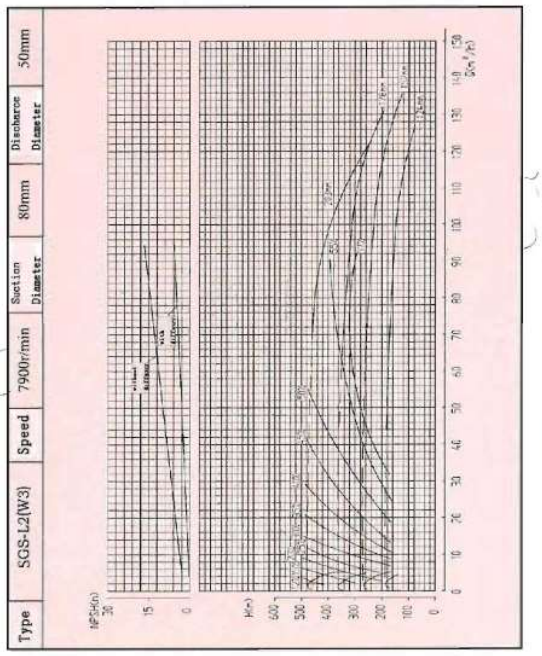


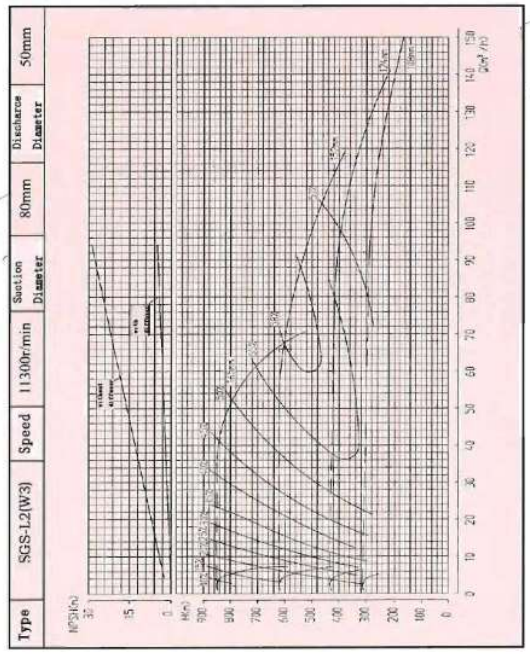


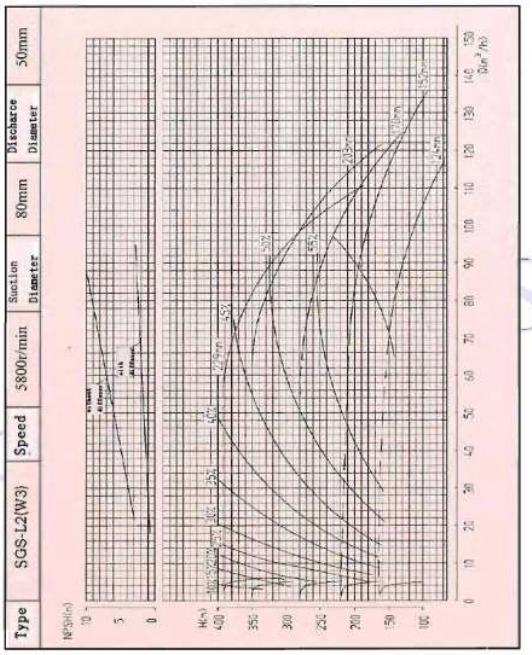


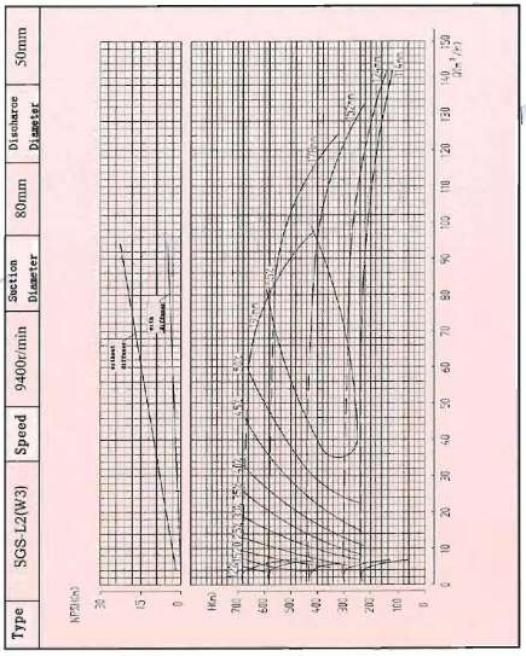
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Performance Curve



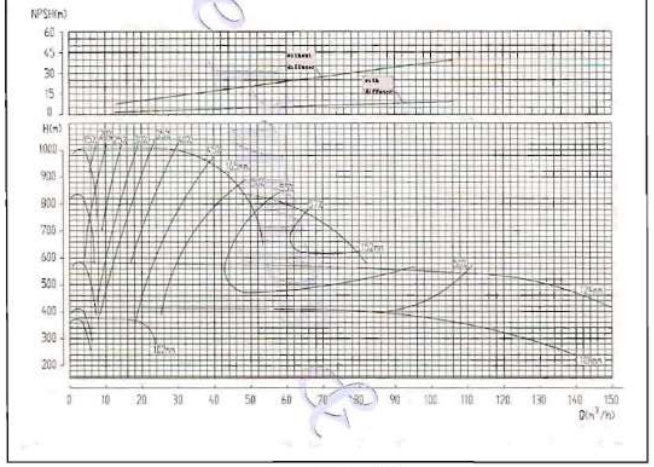




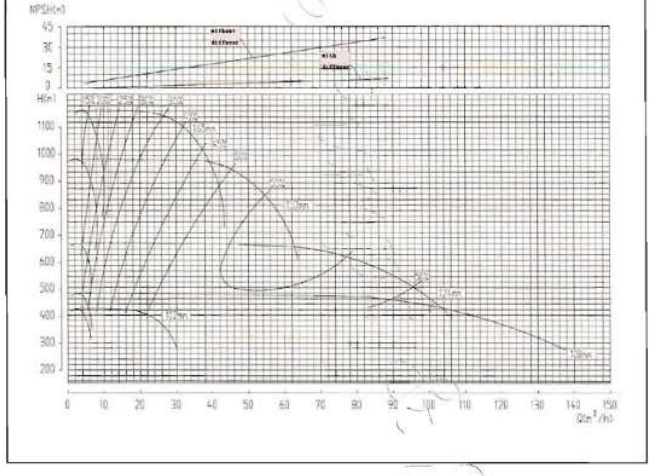


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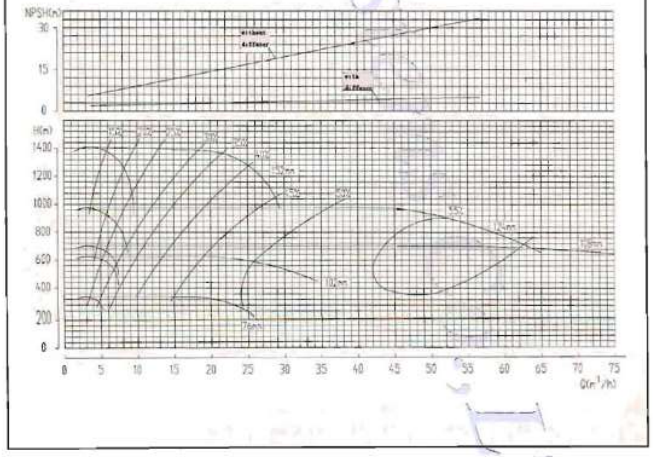
Type	SGS-L2(W3)	Speed	13000r/min	Suction Diameter	80mm	Discharge Diameter	50mm



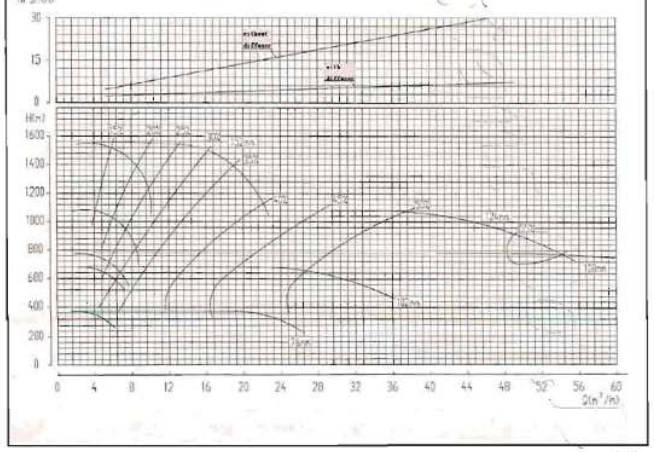
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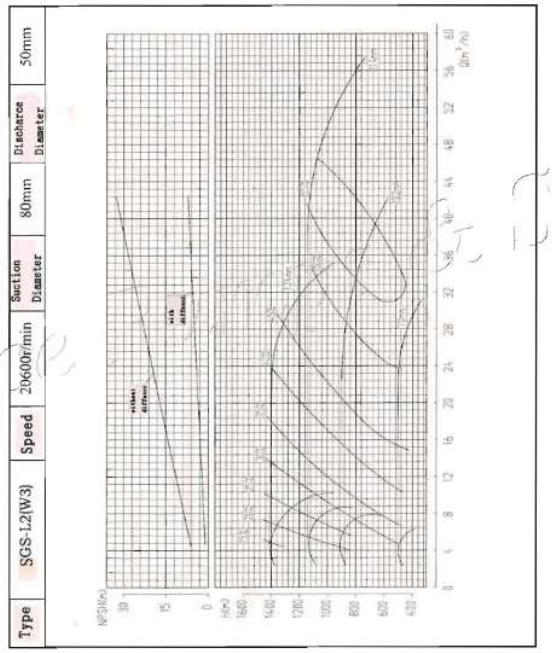
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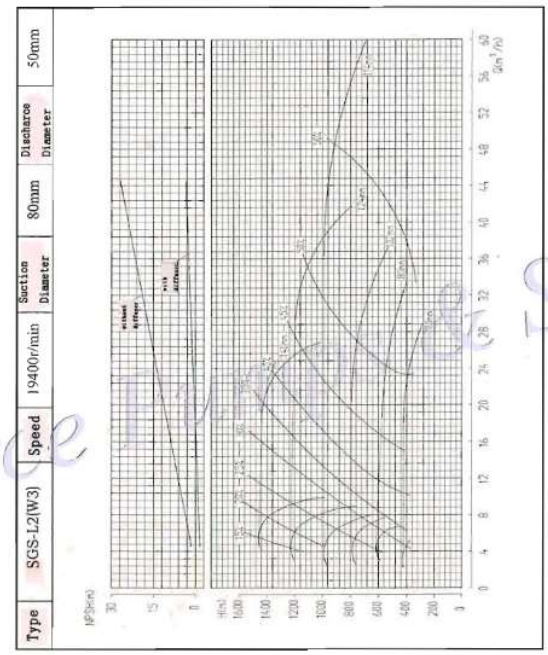


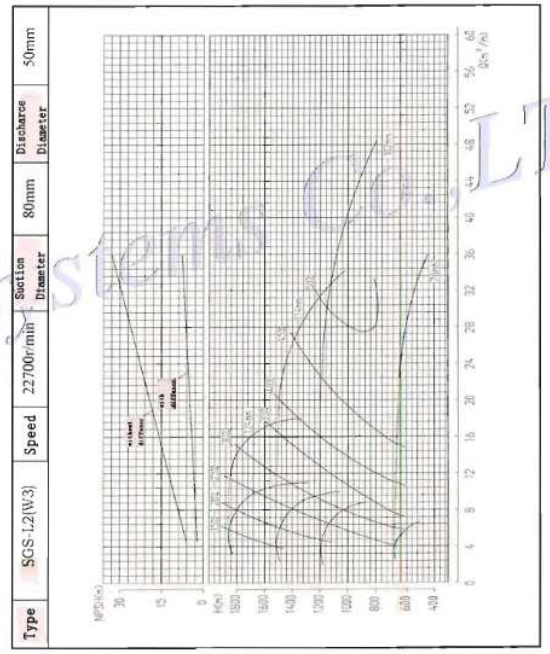
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Performance Curve







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