



PRODUCT CATALOGUE

КАТАЛОГ
ПРОДУКТОВ



SUBMERSIBLE PUMP

Introduction

Shijiazhuang Minerals Equipment Co., Ltd is a leading professional slurry pump manufacturer in China. We are engaged in heavy duty and severe duty pumps. Manufactured to be the finest standards, our pumps can guarantee a longer life, higher performance, ease of operation and maintenance. They are widely used in mining, construction, metallurgy, power plant, sewage water treatment, dredging, and chemical and petroleum industries. With decades of development, we have built a complete system of slurry pump design, selection, application and maintenance. We devote to offering the solutions of slurry pump application for customers all over the world. Our team consists of a global pool of highly dedicated people working closely together to ensure our customers' success. People here are all armed with outstanding expertise, lofty commitment and strong drive to make profitable advancements, reach new heights in service and deliver real results. With a complete quality assurance system and strict manufacturing processes, we are here to offer our clients the first-class products of super quality with perfect after-sale service. Welcome to Shijiazhuang Minerals Equipment Co., Ltd .

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**The leader in
the design,
manufacture
and
application
of heavy
duty,
centrifugal
slurry pumps**

SH/SBH/SL Slurry Pumps

Product Features

Type SH/SBH pumps are cantilevered, horizontal, centrifugal slurry pumps. They are designed for handling abrasive, high density slurries in the metallurgical, mining, coal, power, building material and other industrial departments etc. The pumps of this type also may be installed in multistage series.

The frame plates for type SH pumps such as interchangeable, hard metal or pressure moulded elastomer liners. The impellers are made of hard metal or pressure moulded elastomer liners. The frame plate liner and impeller for SBH pump are adoptable of hard metal only.

The shaft seals for type SH\SBH pumps may be adoptable of gland seal or centrifugal shaft seal. The discharge branch can be positioned at intervals of 45 degrees by request and oriented to any eight positions to suit installations and applications.



Type SL pumps are cantilevered, horizontal, centrifugal slurry pumps. They are suitable for delivering low density slurries for metallurgical, mining, coal and building material departments. The shaft seal adopts both gland seal and centrifugal seal.

Type SL pumps operate in high speed with small volumes to save floor area. The frame plates have changeable, wear-resistant metal liners or rubber liners and the impellers are made of wear-resistant metal or rubber.

SH/SBH/SL Applications

Alumina
Asbestos
Bauxite
Building Products
Cement
Coal
Chemical Fertilizer
Wolfram
Water & Sewage Treatment

Copper
Electric Utilities
Gold
Iron Ore
Lead & Zinc
Mineral Sands
Molybdenum
Sugar
Tin

Oil Shale
Phosphate
Potash
Paper & Pulp
Sand & Gravel
Silver
Steel
Titanium
Tobacco



SH/50C slurry pump handling hot caustic slurry in an alumina plant.

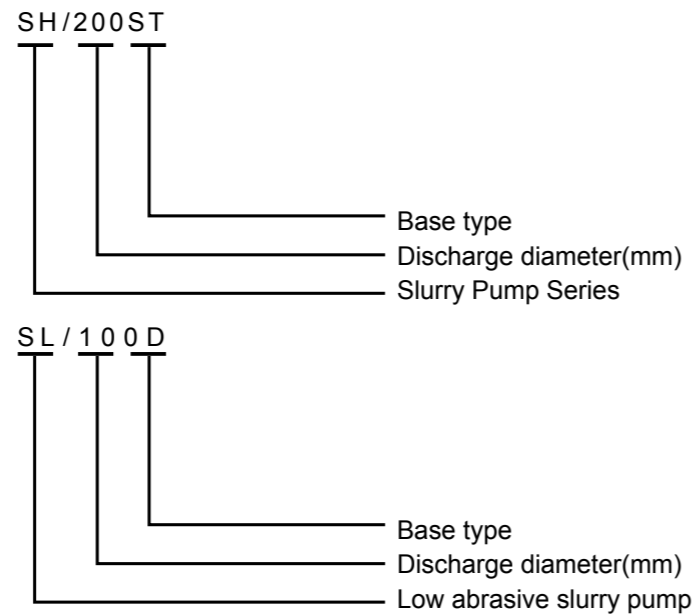


Two 150ZGB high head slurry pumps in series pumping coal tailings direct from a thickener underflow.

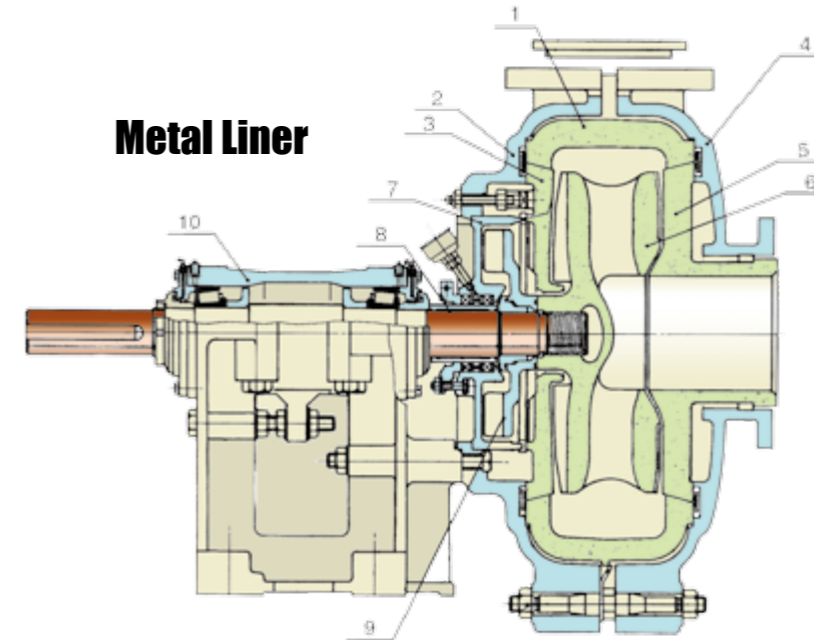


SH/150E slurry pump delivering fine coal to dewatering screen in a coal washery.

Type Notation



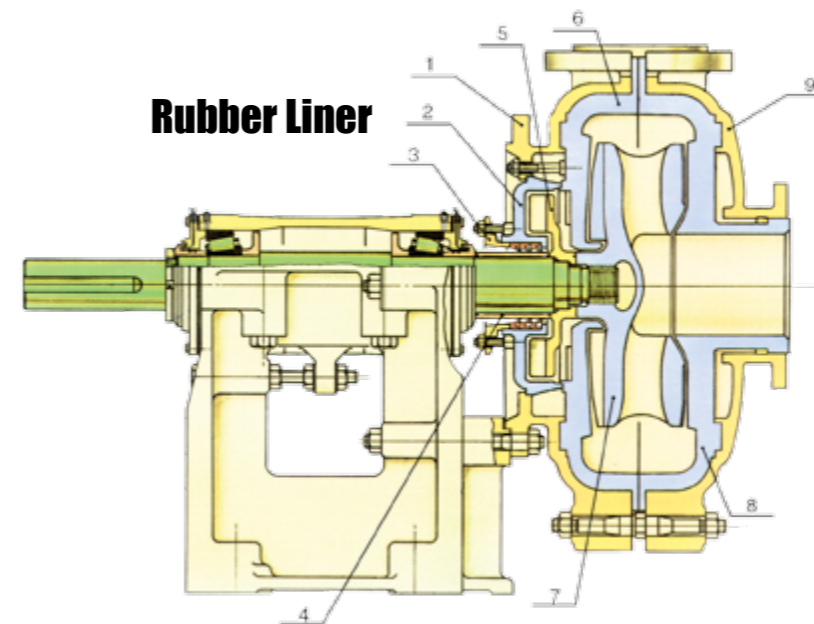
Construction Design



Metal Liner

- 1 Liner
- 2 Frame plate
- 3 Back liner
- 4 Cover plate
- 5 Front liner
- 6 Impeller
- 7 Expeller ring
- 8 Shaft sleeve
- 9 Expeller
- 10 Bearing assembly

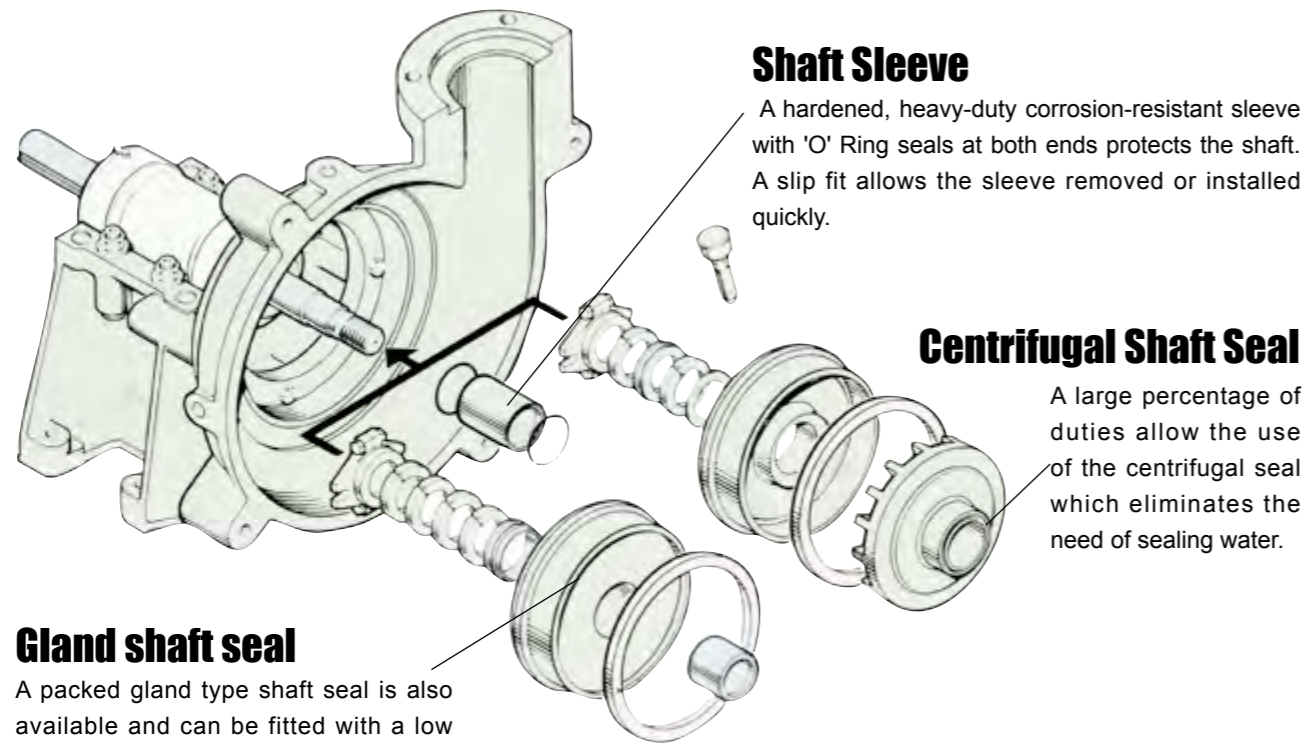
Construction Design



Rubber Liner

- 1 Frame plate
- 2 Expeller ring
- 3 Packing gland
- 4 Shaft sleeve
- 5 Expeller
- 6 Frame plate liner
- 7 Impeller
- 8 Cover plate liner
- 9 Cover plate

Designed and built for long life with low maintenance



Shaft Sleeve

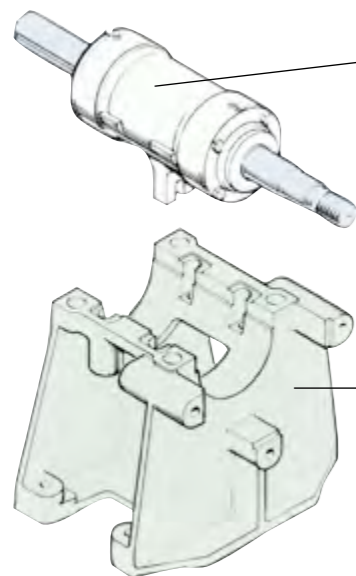
A hardened, heavy-duty corrosion-resistant sleeve with 'O' Ring seals at both ends protects the shaft. A slip fit allows the sleeve removed or installed quickly.

Centrifugal Shaft Seal

A large percentage of duties allow the use of the centrifugal seal which eliminates the need of sealing water.

Gland shaft seal

A packed gland type shaft seal is also available and can be fitted with a low flow or a full flow flush seal water arrangement.

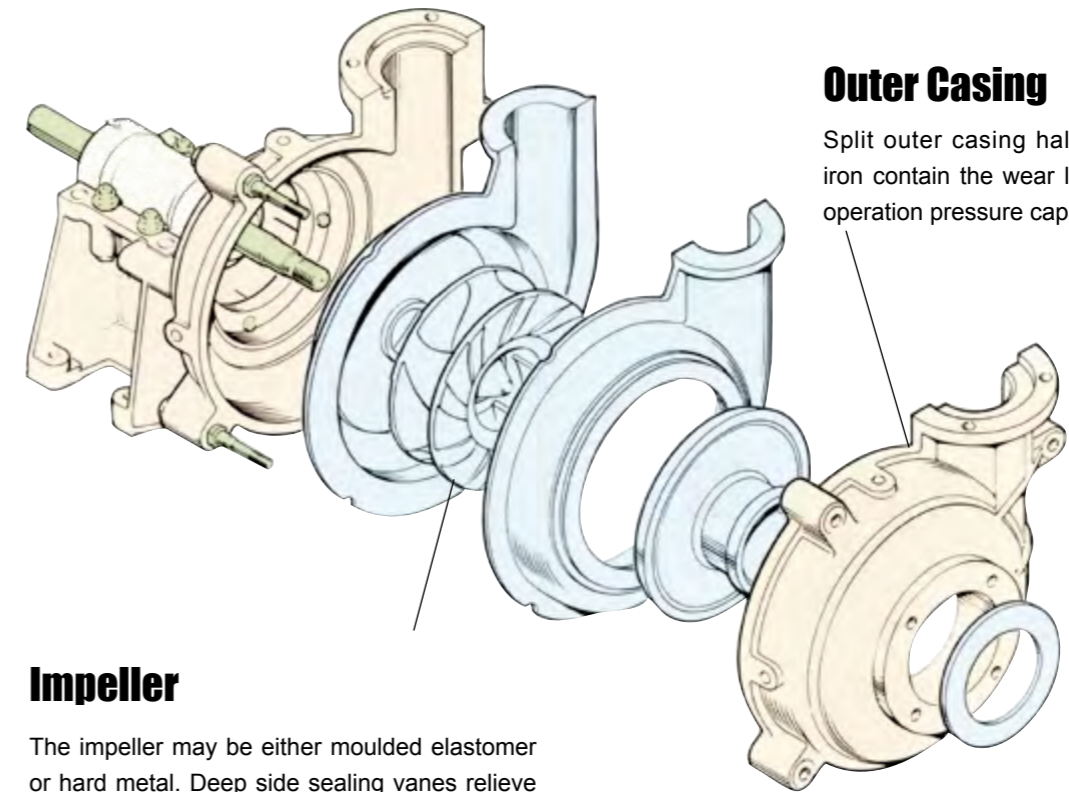


Shaft and Bearing Assembly

A large diameter shaft with a short overhang minimizes deflection and vibration. Heavy-duty roller bearings are housed in a removable bearing cartridge.

Pump Base

A minimum number of through bolts hold the pump casing to the frame. A means of impeller adjustment is provided in a convenient position below the bearing housing.

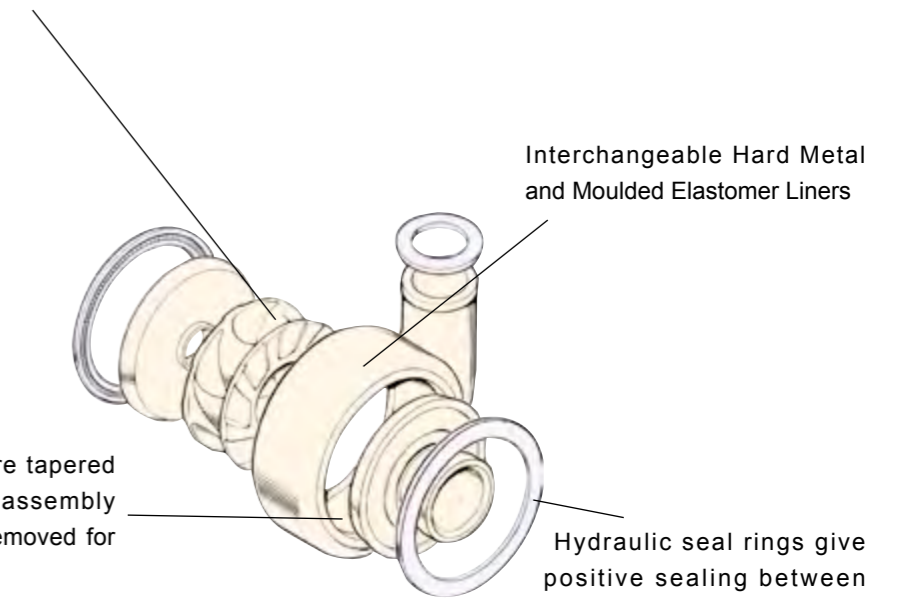


Outer Casing

Split outer casing halves of cast or ductile iron contain the wear liners and provide high operation pressure capabilities.

Impeller

The impeller may be either moulded elastomer or hard metal. Deep side sealing vanes relieve seal pressure and minimize recirculation. Cast-in impeller threads are better suited for slurries.



Interchangeable Hard Metal and Moulded Elastomer Liners

Mating faces in hard metal liners are tapered to allow positive alignment during assembly and allow components to be easily removed for replacement.

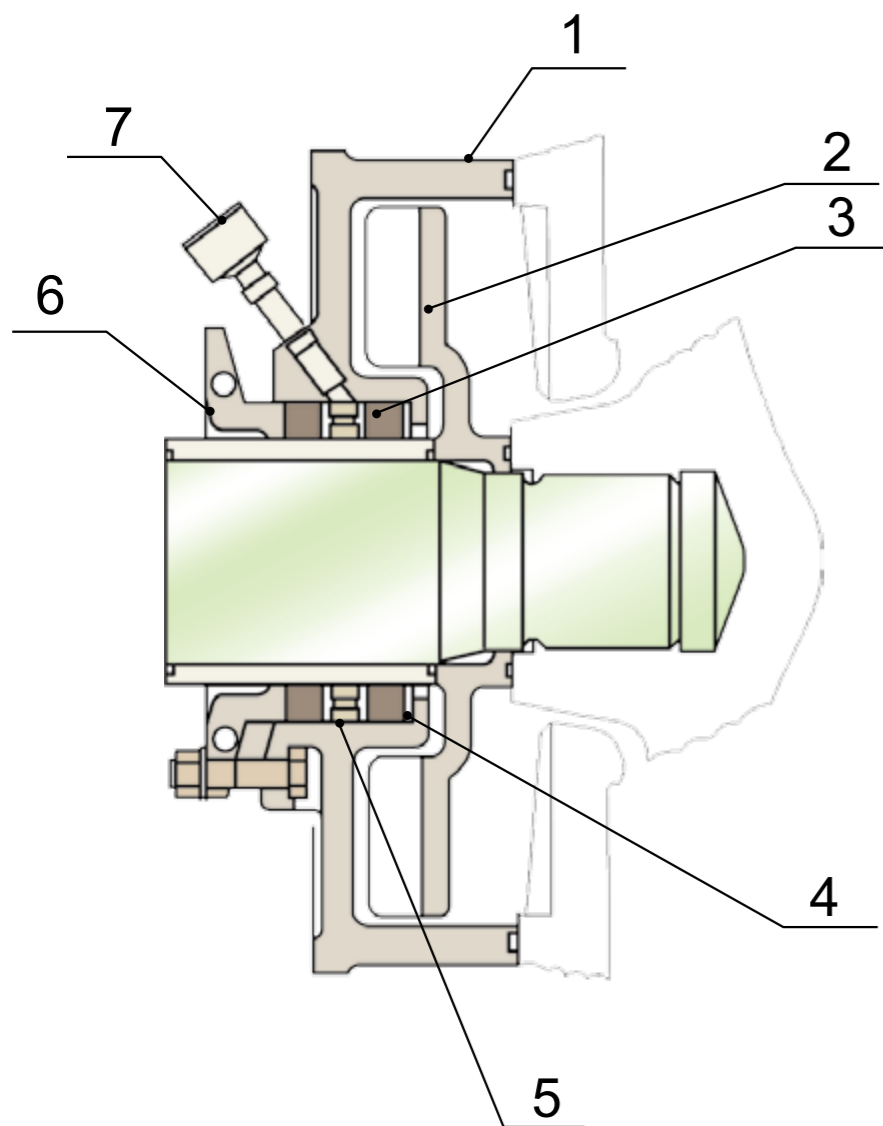
Hydraulic seal rings give positive sealing between mating faces.

Shaft Seal Module Design

Type SH/SBH/SL slurry pumps adopt many kinds of sealing systems: expeller drive seal, packing seal, mechanical seal and all sorts of special combined seals.

Expeller drive seal

Use pressure seal produced by impeller and expeller in series, packing or lip sealing ring for shut down seal.

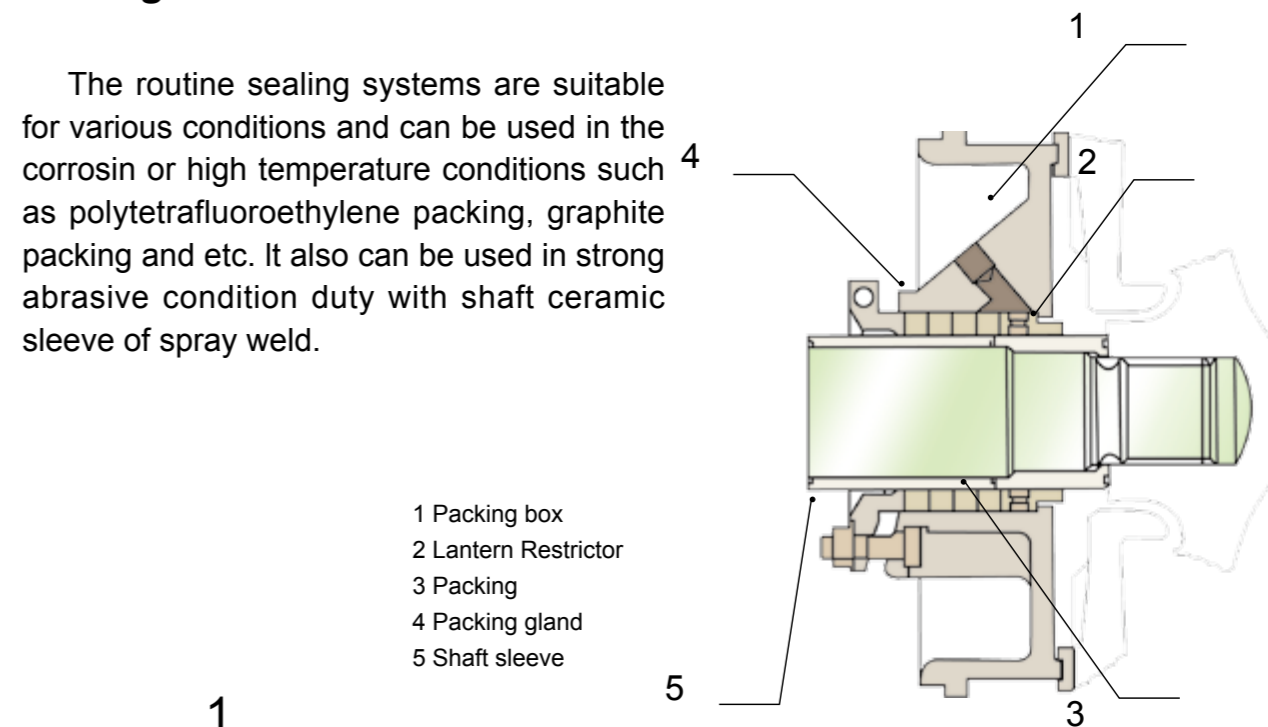


- 1 Expeller ring
- 2 Expeller
- 3 Packing
- 4 Neck Ring
- 5 Lantern Ring
- 6 Packing gland
- 7 Grease Cup

Expeller seal

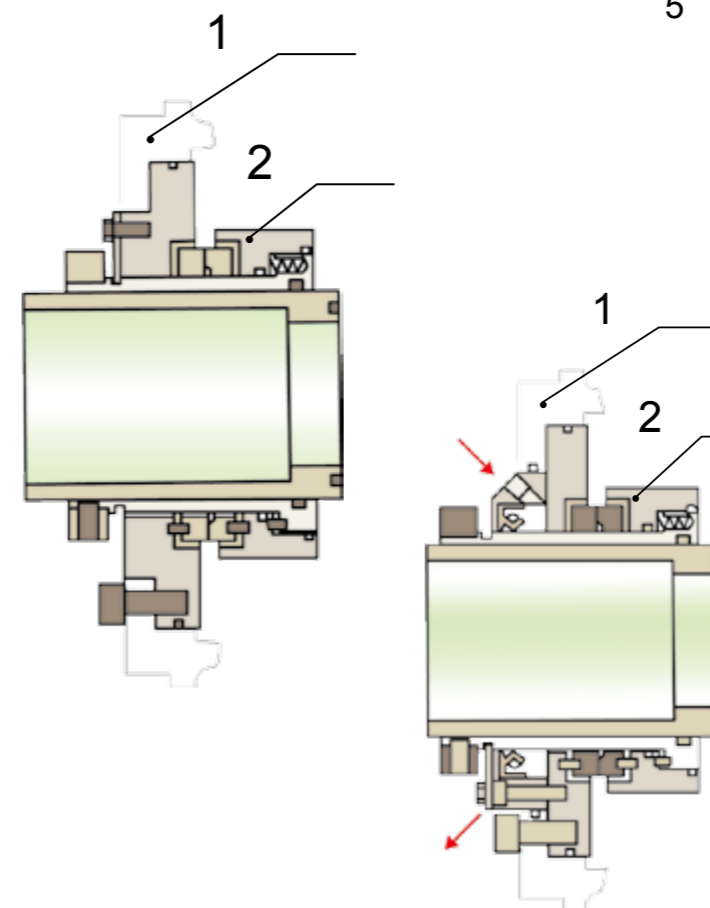
Packing seal

The routine sealing systems are suitable for various conditions and can be used in the corrosive or high temperature conditions such as polytetrafluoroethylene packing, graphite packing and etc. It also can be used in strong abrasive condition duty with shaft ceramic sleeve or spray weld.



- 1 Packing box
- 2 Lantern Restrictor
- 3 Packing
- 4 Packing gland
- 5 Shaft sleeve

Packing seal



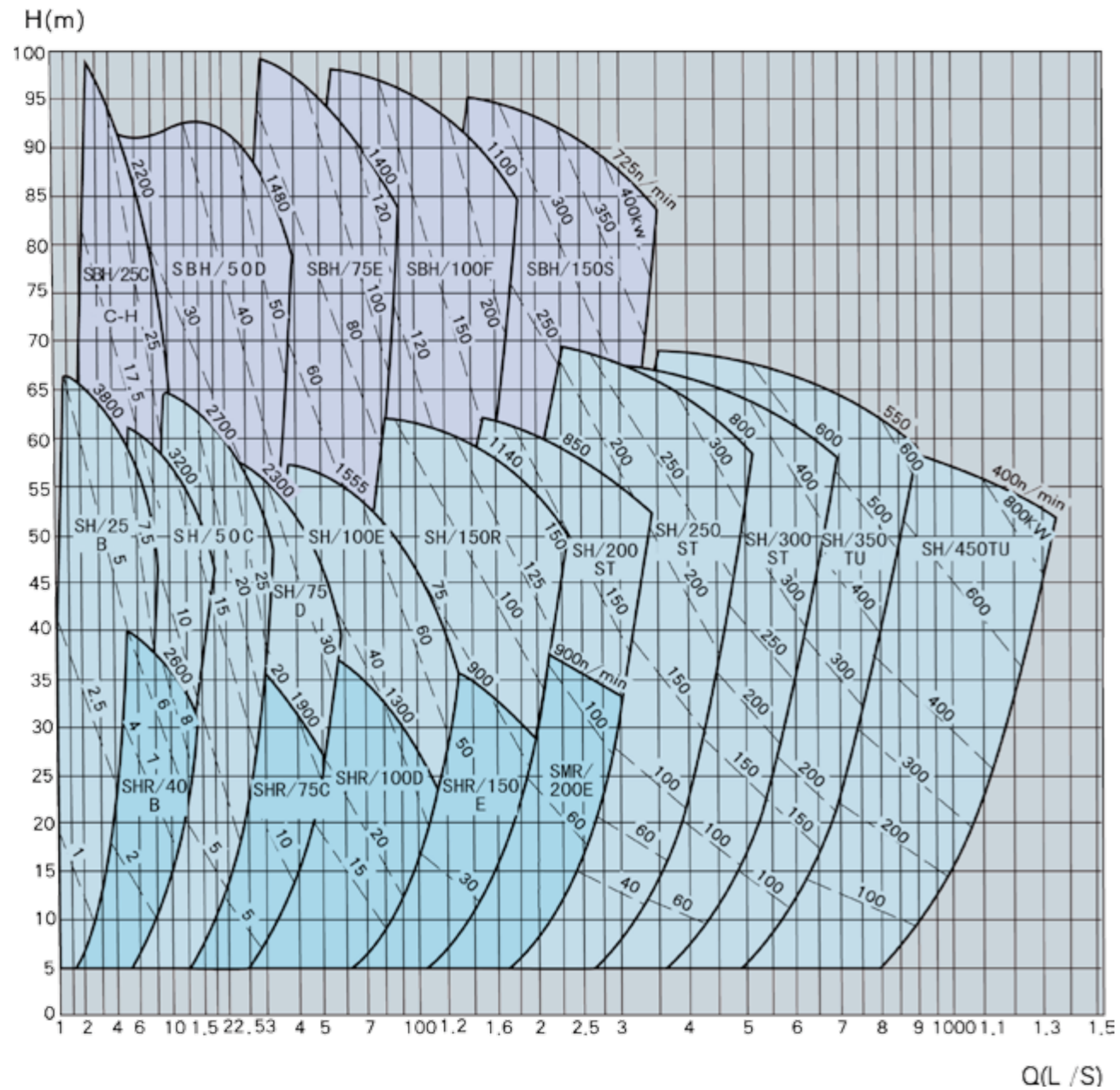
- 1 Stationary ring assembly
- 2 Movable ring assembly

Mechanical seal

World-advanced sealing technique without sealing leakage, integrating construction, convenient installation & replacement, various constructions suit for all kinds of conditions. High hardness ceramic and alloy are adopted for material of friction parts. Design & matching of mechanical seal & sealing box is suitable for fluid state. It possesses high abrasive resistance & shakeproof to guarantee that sealing effect can be satisfied by customers in various conditions.

Selection Chart and Performance

Type SH/SBH



Note: Approximate performance for clear water to be used for primary selection only

Performance Parameter of SH/SBH Pump

TYPE	ALLOWABLE MATING MAX. POWER(KW)	MATERIAL		CLEAR WATER PERFORMANCE						IMPELLER	
		LINER	IMPEL.	Q		HEAD H (m)	SPEED n (r/min)	MAX. Eff h%	NPSH (m)	NO.OF VANES	IMPEL. DIA. (mm)
				(m³/h)	(l/s)						
SH/25B	15	M	M	12.6~28.8	3.5~8	6~68	1200~3800	40	2~4	5	152
		RU	RU	10.8~25.2	3~7	7~52	1400~3400	35		3	
SBH/25C	30	M	M	16.2~34.2	4.5~9.5	25~92	1400~2200	20	2~5.5	5	330
SH/40B	15	M	M	32.4~72	9~20	6~58	1200~3200	45	3.5~8	5	184
		RU	RU	25.2~54	7~15	5.5~41	1000~2600	50	2.5~5		178
SH/50C	30	M	M	39.6~86.4	11~24	12~64	1300~2700	55	4~6	5	214
		RU	RU	36~75.6	10~21	13~46	1300~2300	60	2~4		213
SBH/50D	60	M	M	68.4~136.8	19~38	25~87	850~1400	47	3~7.5	5	457
SH/75C	30	M	M	86.4~198	24~55	9~52	1000~2200	71	4~6	5	245
		RU	RU	79.2~180	22~50	5~34.5	800~1800	59	3~5		
SBH/75E	120	M	M	126~252	35~70	12~97	600~1400	50	2~5	5	508
SH/100D	60	M	M	162~360	40~100	12~56	800~1550	65	5~8	5	365
		RU	RU	144~324	40~90	12~45	800~1350	65	3~5		365
SBH/100F	260	M	M	324~720	90~200	30~118	600~1000	64	3~8	5	711
SBH/150S	560	M	M	468~1008	130~280	20~94	500~1000	65	4~12	5	711
SH/150E	120	M	M	360~828	100~230	10~61	500~1140	72	2~9	5	510
		RU	RU	324~720	90~200	7~49	400~1000	65	5~10		510
SM/200E	120	M	M	666~1440	185~400	14~60	600~1100	73	4~10	5	549
SH/200ST	560	M	M	612~1368	170~380	11~61	400~850	71	4~10	5	686
		RU	RU	540~1188	150~330	12~50	400~750	75	4~12		
SH/250ST	560	M	M	936~1980	260~550	7~68	300~800	82	6	5	762
		RU	RU	720~1620	200~450	7~45	300~650	80	2.5~7.5		
SH/300ST	560	M	M	1260~2772	350~770	13~63	300~600	77	3~10	5	965
		RU	RU	1152~2520	320~700	13~44	300~500	79	3~8		
SH/350TU	1200	M	M	1368~3060	380~850	11~63	250~550	79	4~10	5	1067
SH/450TU	1200	M	M	2520~5400	700~1500	13~57	200~400	85	5~10	5	1370

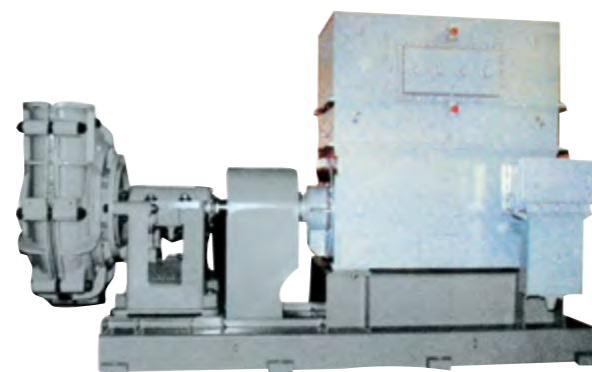
NOTE: 1. "RU": rubber, "M": alloy wear-resisant material,
 2. Capacity range recommened: 50%Q'≤Q≤110%Q'
 (Q'≈Appropriate to capacity at highest efficiency point)
 3. NPSH: Appropriate to point Q recommened at highest speed.

Drive Type

Outline and Installation Dimension



■ CV



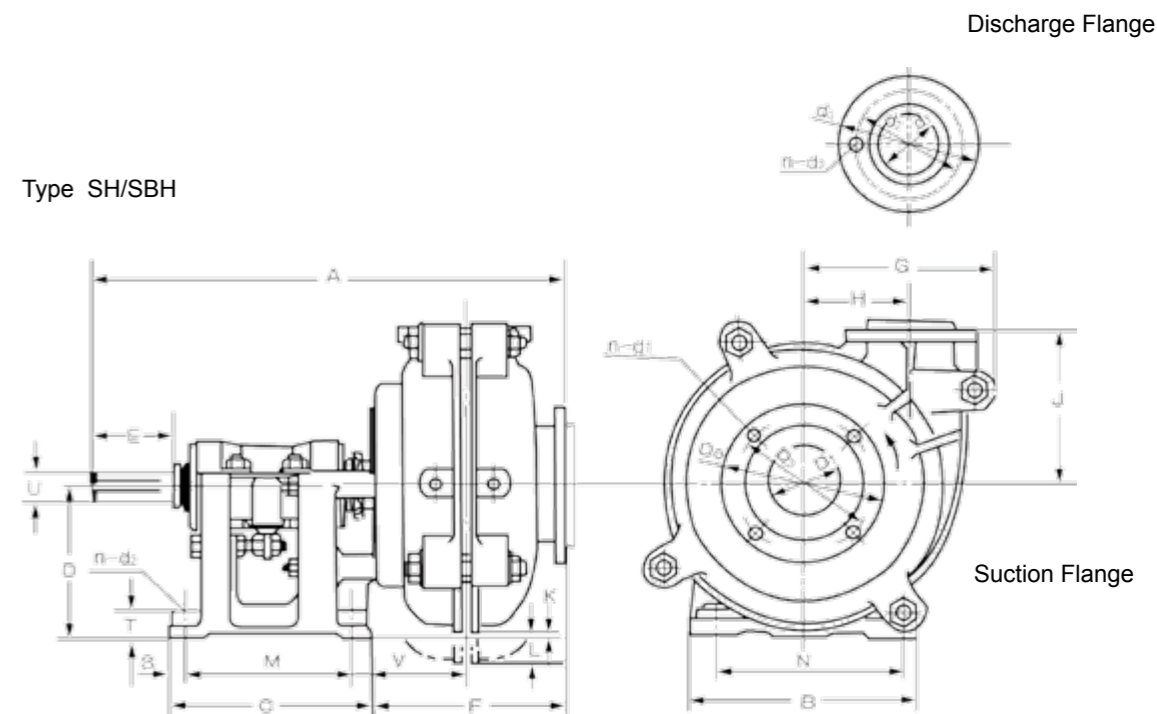
■ DC



■ ZV

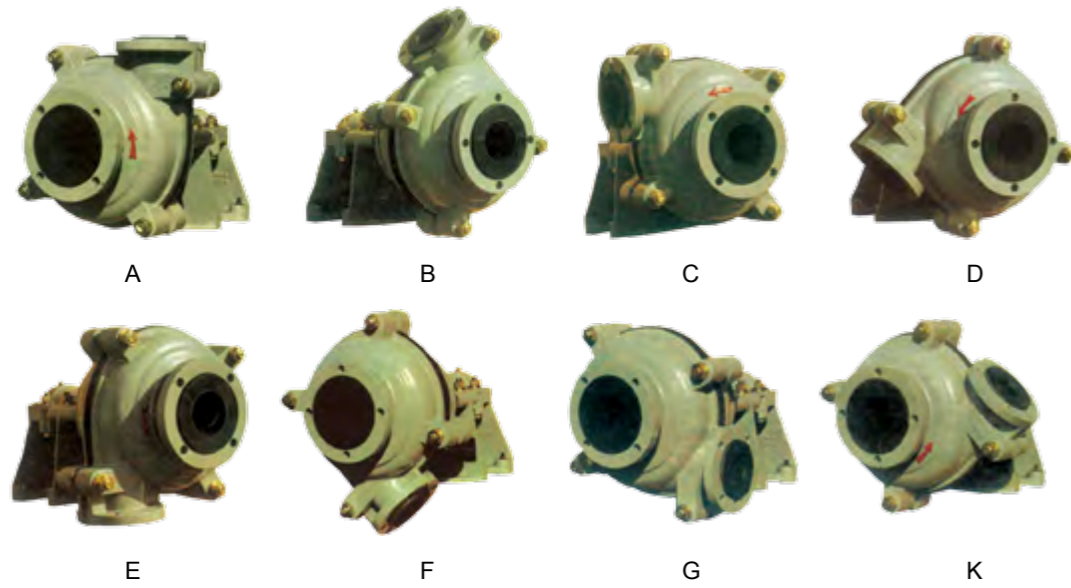


■ CR



TYPE	A	B	C	D	U	E	F	G	H	J	K	L	M	N	V
SH/25B	583	295	248	197	28	79	206	181	98	171	46	-	143	254	181
SBH/25C	759	406	311	254	42	121	306	270	194	254	-	11	175	356	252
SH/40B	592	295	428	197	28	79	217	205	114	184	33	-	143	254	184
SH/50C	768	406	311	254	42	121	281	238	138	210	71	-	175	356	233
SBH/50D	986	492	364	330	65	164	389	384	254	368	-	51	213	432	298
SH/75C	843	206	311	254	42	121	354	292	149	262	24	-	185	356	270
SH/75D	943	492	364	330	65	164	353	292	149	262	100	-	213	432	279
SBH/75E	1240	622	448	457	80	222	492	492	330	432	-	-	257	546	381
SH/100D	1021	492	364	330	65	164	421	406	229	338	11	-	213	432	318
SH/100E	1178	622	448	457	80	222	433	406	229	338	138	-	257	546	351
SBH/100F	1668	920	780	450	120	280	296	616	413	546	-	134	640	760	353
SH/150E	1302	622	448	457	80	222	557	551	318	460	-	62	257	546	402
SH/150R	1306	680	590	350	85	215	-	511	318	460	-	170	490	560	312
SBH/150F	2275	1150	1040	650	150	350	852	835	584	813	-	160	880	900	538
SM/200E	1337	622	118	457	80	222	584	613	384	470	-	83	257	546	403
SM/200R	1395	680	590	350	85	215	-	613	384	170	-	190	490	560	314
SH/200ST	1784	1150	780	650	120	280	692	673	419	635	27	-	620	900	439
SH/250ST	1816	1150	780	650	120	280	762	775	464	674	-	65	620	900	461
SH/300ST	1873	1150	780	650	120	280	812	937	629	832	-	224	620	900	486
SH/350TU	2320	1460	1050	900	150	350	953	1048	660	889	-	84	860	1200	597
SH/450TU	2475	1460	1050	900	150	350	1100	1420	940	1230	-	420	860	1200	615
SBH/150S	1700	920	785	450	120	280	622	625	415	615	-	155	640	760	382

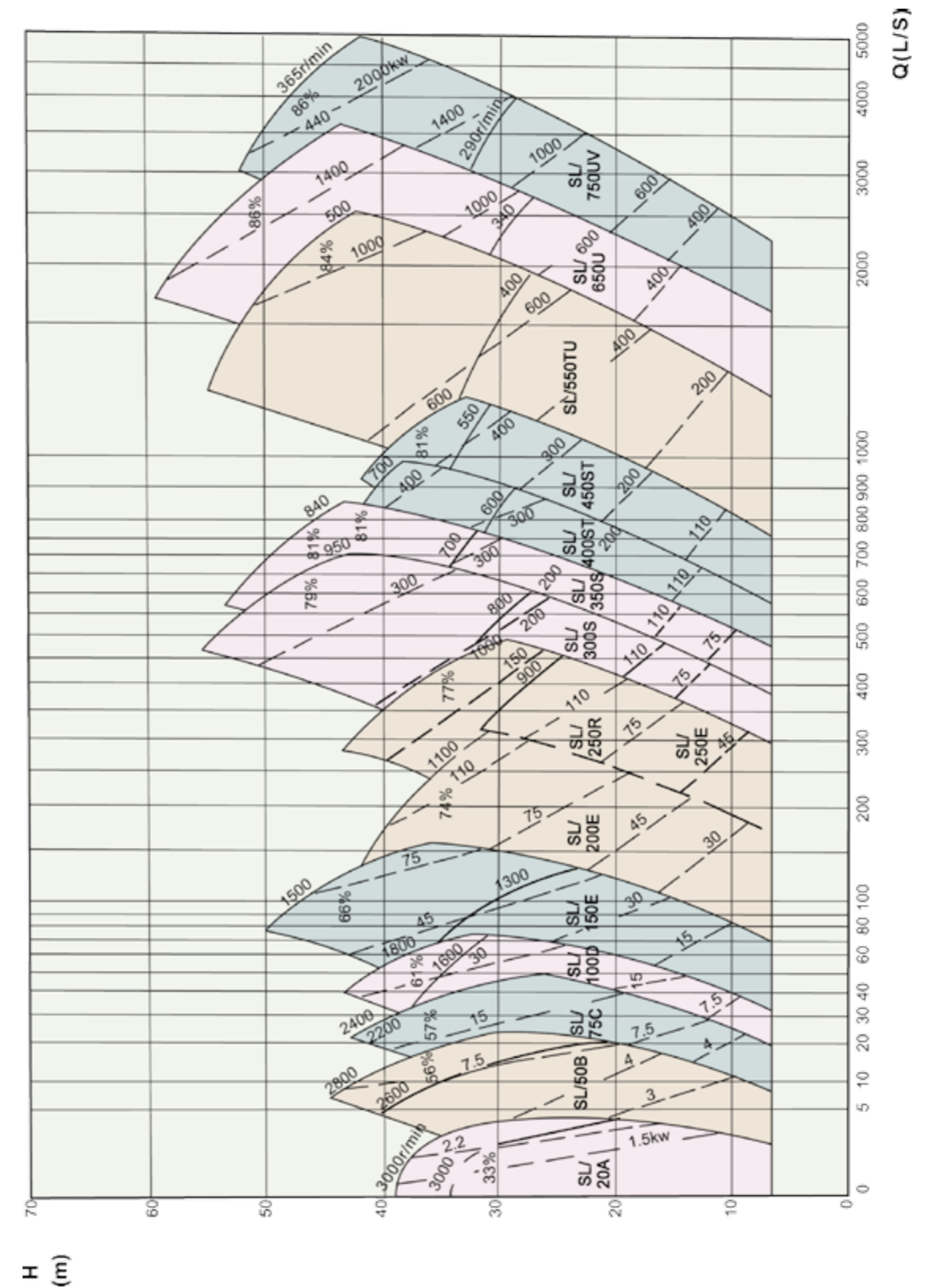
Discharge angle



Outline and Installation of SH/SBH Pump

T	S	n-d	SUCTION FLANGE				DISCHARGE FLANGE				PUMP WEIGHT(Kg)	
			D ₀	D ₁	D ₂	n-d ₁	d ₀	d ₁	d ₂	n-d ₂	METAL	RUBBER
38	24	4-Φ14	152	38	114	4-Φ16	165	25	127	4-Φ16	91	77
48	32	4-Φ19	152	38	114	4-Φ17	152	25	114	4-Φ17	318	-
38	24	4-Φ14	184	51	146	4-Φ19	165	38	127	4-Φ19	104	118
48	32	4-Φ19	216	76	178	4-Φ19	184	51	146	4-Φ19	191	154
64	38	4-Φ22	216	76	178	8-Φ19	203	51	165	8-Φ19	750	-
48	32	4-Φ19	279	102	235	4-Φ22	229	76	191	4-Φ22	263	236
64	38	4-Φ22	279	102	235	4-Φ22	229	76	191	4-Φ22	363	290
76	54	4-Φ29	254	102	210	8-Φ19	254	76	210	8-Φ19	1250	-
64	38	4-Φ22	337	152	292	4-Φ22	279	102	235	4-Φ22	626	454
76	54	4-Φ29	337	152	292	4-Φ22	279	102	235	4-Φ22	728	635
90	70	4-Φ35	337	152	292	8-Φ22	205	120	260	8-Φ22	2880	-
76	54	4-Φ29	406	203	356	8-Φ22	268	152	321	8-Φ21	1473	982
70	50	4-Φ28	406	203	356	8-Φ22	368	152	321	8-Φ22	1655	-
125	80	4-Φ48	432	203	375	8-Φ29	432	152	375	8-Φ29	6586	-
76	54	4-Φ29	502	254	445	8-Φ29	432	203	375	8-Φ29	1625	1202
70	50	4-Φ28	502	254	445	8-Φ29	432	203	375	8-Φ29	1836	-
125	80	4-Φ48	502	254	445	8-Φ29	432	203	375	8-Φ29	3750	3130
125	80	4-Φ48	527	305	470	12-Φ25	527	254	470	12-Φ25	4318	3357
125	80	4-Φ48	585	356	521	12-Φ25	552	305	495	12-Φ25	6409	4672
150	95	4-Φ79	705	406	341	12-Φ35	673	356	610	12-Φ29	10000	-
150	95	4-Φ79	900	508	800	12-Φ42	900	460	800	12-Φ42	18864	15921
90	70	4-Φ35	380	152	320	8-Φ27	420	150	360	8-Φ27	-	-

Type SL



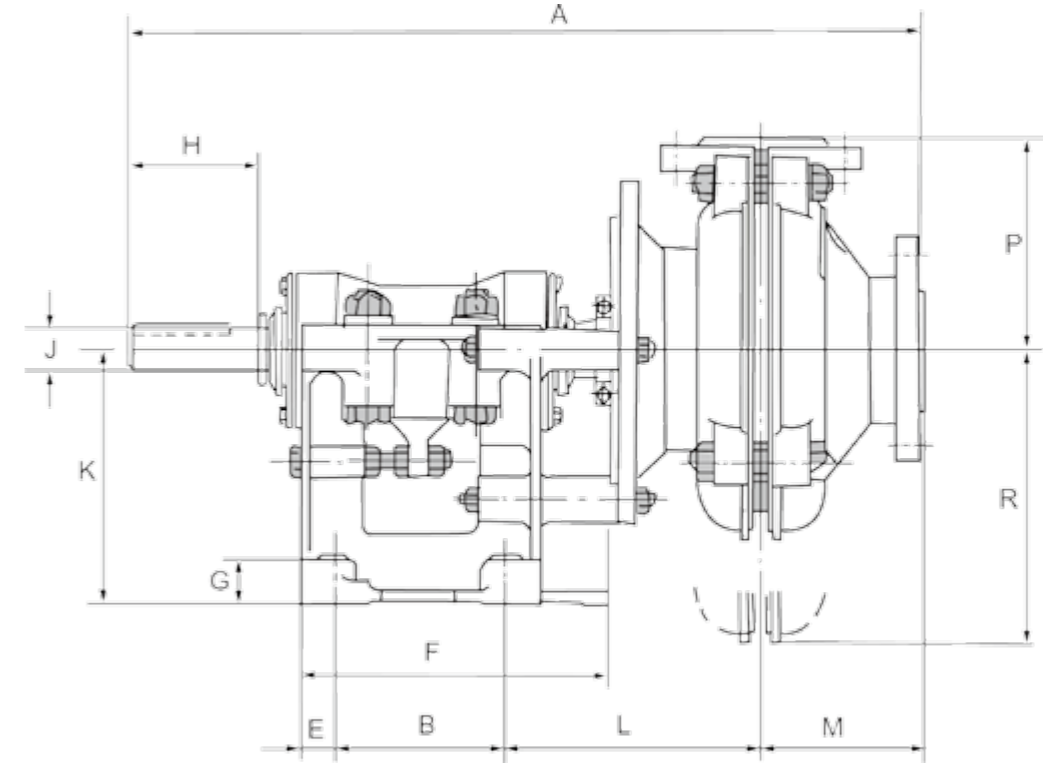
NOTE: Approximate performance for clear water, to be used for primary selection only.

Performance Parameter of SL Pump

TYPE	ALLOWABLE MATING MAX. POWER(KW)	MATERIAL		CLEAR WATER PERFORMANCE						IMPELLER	
		LINER	IMPEL	Q (m3/h)	CAPACITY (l/s)	HEAD H (m)	SPEED n (r/min)	MAX. Eff h%	NPSH (m)	NO.OF VANES	IMPEL. DIA. (mm)
SL/20A	7.5	M	M	2.34~10.8	0.65~3	6~37	1400~3000	30		4	152.4
SL/50B	15	M	M	16.2~76	4.5~20	9~44	1400~2800	55		4	190
SL/75C	30	M	M	18~151	5~42	4~45	900~2400	57		4	229
SL/100D	60	M	M	50~252	14~70	7~46	800~1800	60	2~3.5	4	305
SL/150E	120	M	M	115~486	32~135	12~51.5	800~1500	65	2~6	4	381
SL/200E	120	M	M	234~910	65~253	9.5~40	600~1100	64	3~6	4	457
SL/250E	120	M/RU	M/RU	396~1425	110~396	8~30	500~800	77	2~10	5	550
SL/300S	560	M	M	468~2538	130~705	8~60	400~950	79	2~10	5	653
SL/350S	560	M	M	650~2800	180~780	10~59	400~840	81	3~10	5	736
SL/400ST	560	M	M	720~3312	200~920	7~51	300~700	80	2~10	5	825
		RU	RU	756~3312	210~920	7~37.5	300~600	85	2~8		
SL/450ST	560	M	M	1008~4356	280~1210	9~48	300~600	80	2~9	5	933
		RU	RU	1080~4356	300~1210	9~40	300~550	87	3~10		
SL/550TU	1200	M	M	1980~7920	560~2200	10~50	250~475	86	4~10	5	1213
		RU	RU	1980~7920	560~2200	10~50	250~475	86	4~10		
SL/650TU	1200	M	M	2520~9108	700~2530	10~55	200~350	86	2~8	5	1425
		RU	RU	2520~9108	700~2530	10~39	200~350	86	2~8		

NOTE: 1. "RU": rubber, "M": alloy wear-resisant material,
 2. Capacity range recommened: 50%Q'≤Q≤110%Q'
 (Q'≈Appropriate to capacity at highest efficiency point)

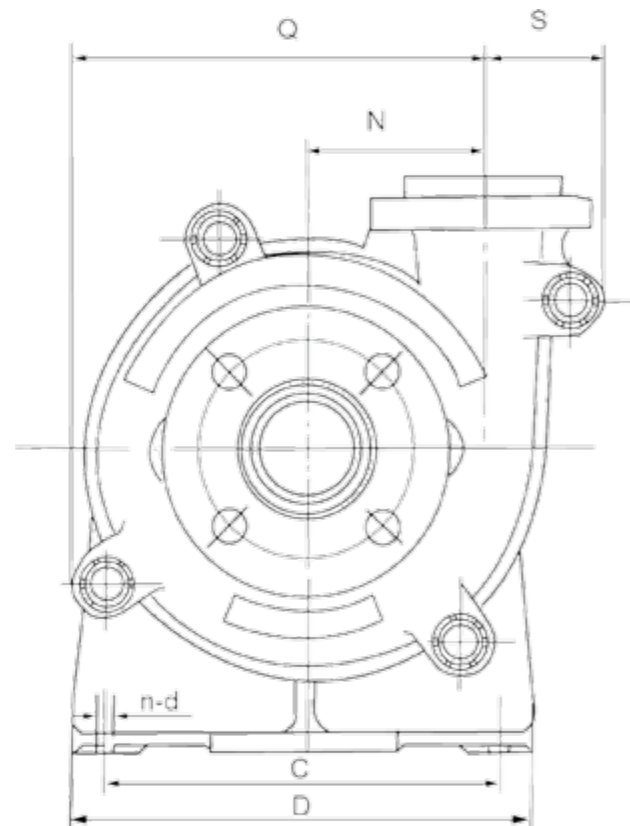
Type SL



Outline and Installation Dimension

TYPE	A	B	C	D	E	F	G	n-d	H	J	K	L	M
SL(R)/20A	461	159	241	286	25	210	28	4-Φ18	57	20	145	89	90
SL(R)/50B	624	143	254	295	24	248	38	4-Φ14	80	28	197	191	136
SL(R)/75C	813	175	356	406	32	311	48	4-Φ19	120	42	254	253	163
SL(R)/100D	950	213	432	492	38	364	64	4-Φ22	163	65	330	380	187
SL(R)/150E	1218	257	546	622	54	448	76	4-Φ29	220	80	457	376	237
SL(R)/200E	1334	257	54+	622	54	448	76	4-Φ29	220	80	457	413	306
SL(R)/250E	1348	257	546	622	54	448	76	4-Φ29	220	80	457	411	324
SL(R)/250R	1406	490	560	680	50	590	70	4-Φ28	216	85	350	322	324
SL(R)/300S	1720	640	760	920	70	780	90	4-Φ35	280	120	450	415	300
SL(R)/350S	1776	640	760	920	70	780	90	4-Φ35	280	120	450	425	340
SL(R)/400ST	1840	620	900	1150	80	780	125	4-Φ48	280	120	650	480	375
SL(R)/450ST	1875	620	900	1150	80	780	125	4-Φ48	280	120	650	500	400
SL(R)/550TU	2400	860	1200	1460	95	1050	150	4-Φ79	350	150	900	625	500

Type SL



Outline and Installation Dimension

N	PUMP HEAD SIZE				SUCTION FLANGE				DISCHARGE FLANGE			
	S	Q	R	P	O.D.	I.D.	C-C BET. HOLES	HOLE	O.D.	I.D.	C-C BET. HOLES	HOLE
86	144			128	114	25	83	4-Φ14	102	20	73	4-Φ14
114		155		163	184	75	146	4-Φ19	165	50	127	4-Φ19
146	102			204	229	100	191	4-Φ19	203	75	165	4-Φ19
190	118			262	305	150	260	4-Φ22	229	100	191	4-Φ22
248	155			324	368	200	324	4-Φ19	305	150	260	4-Φ19
292	199			401	445	250	394	8-Φ22	382	200	337	8-Φ22
438	257	476	603	470	552	305	495	8-Φ32	483	254	425	8-Φ32
438	257	476	603	470	552	305	495	8-Φ32	483	254	425	8-Φ32
475	165	599	634	570	560	350	500	12-Φ26	530	300	470	12-Φ26
530	295	643	691	620	640	400	580	12-Φ26	590	350	530	12-Φ26
600	343	747	809	740	720	450	650	12-Φ33	685	400	615	12-Φ33
660	375	814	872	800	770	500	700	12-Φ33	740	450	670	12-Φ33
860	453	1055	1142	975	975	650	880	12-Φ39	900	550	800	12-Φ39

SV/SVR Sump Pumps

Application and Features

Type SV/SVR pumps are vertical, centrifugal slurry pumps submerged in sump to work. They are designed for delivering abrasive, large particle and high density slurries. These pumps have no need of any shaft seal and sealing water. They can also be operated normally for insufficient suction duties.

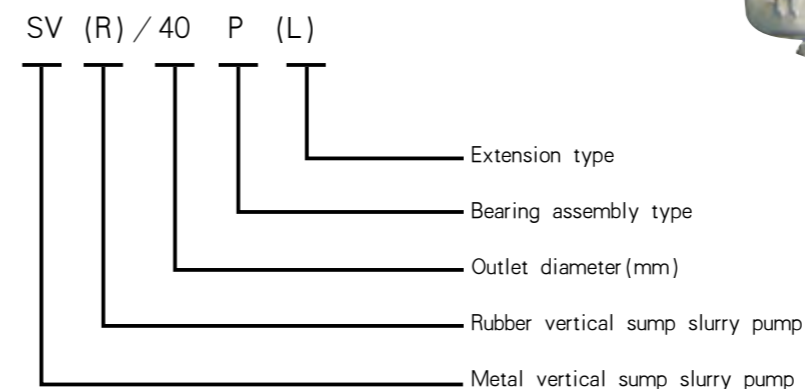
Wet parts of type SV pumps are made of abrasion-resistant metal.

All parts of type SVR pump immersed in liquid are lined with rubber outer liner. They are suited to transport non-edge angle abrasive slurry.

The type with “L” is a sump pump of extended shaft series, which is suited for the working condition of deeper level. The guide bearing construction is added to the pump on the basis of the standard pump, so the pump is with both more steady operation and wider application range, but flushing water should be attached to the guide bearing.



Type Notation

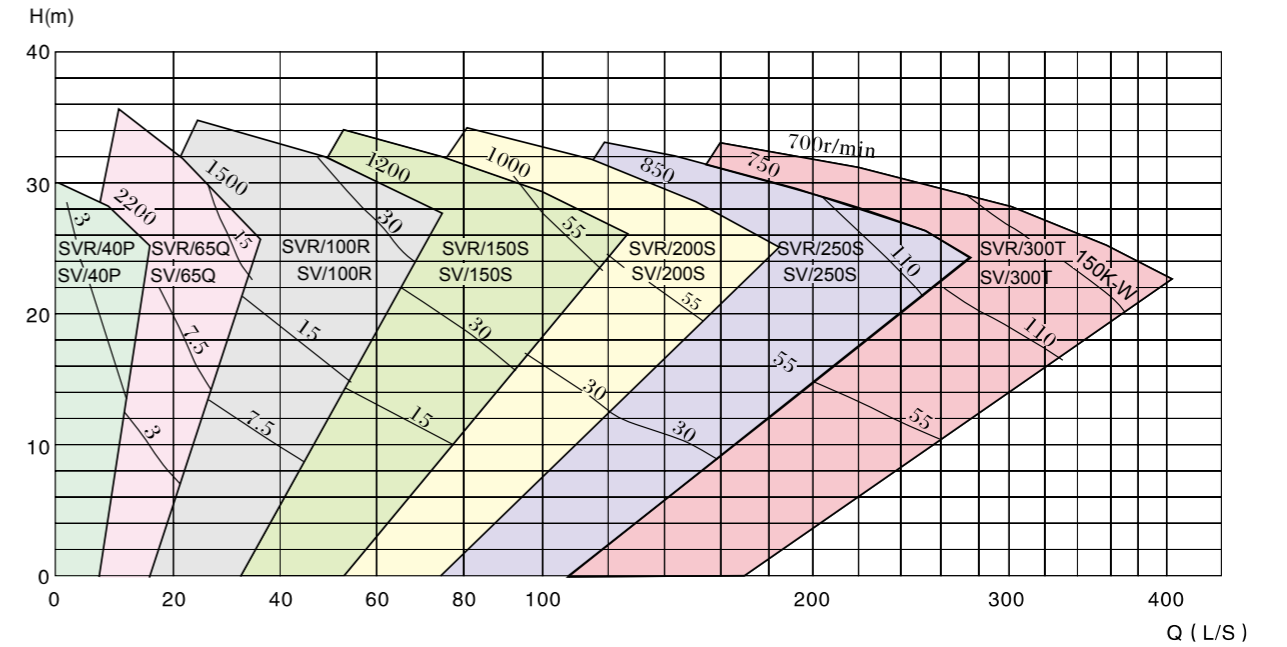


Clear water Performance for SV and SVR Sump Pumps

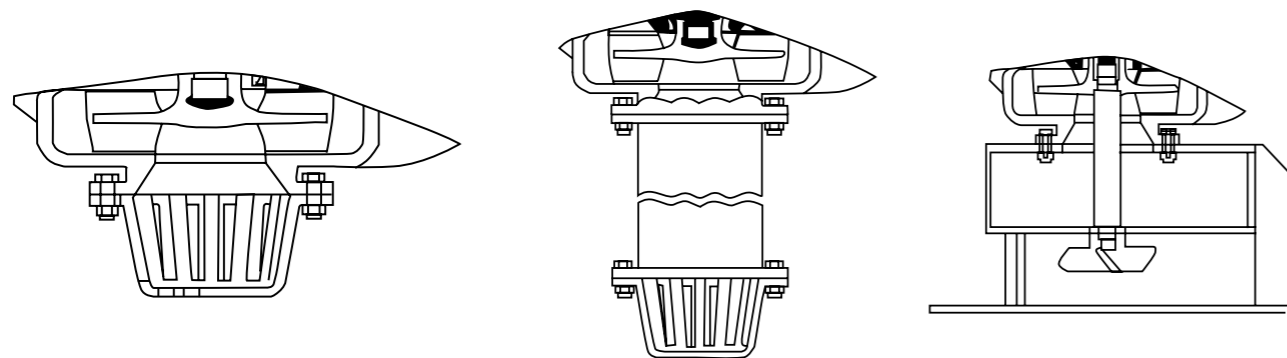
TYPE	ALLOWABLE MATING MAX. POWER(KW)	MATERIAL		CLEAR WATER PERFORMANCE						IMPELLER	
		LINER	IMPEL	Q CAPACITY		HEAD H (m)	SPEED n (r/min)	MAX. Eff h%	NPSH (m)	NO.OF VANES	IMPEL. DIA. (mm)
				(m ³ /h)	(l/s)						
SV/40P(L)	15	M	M	19.44~42.2	5.4~12	4.5~28.5	1000~2200	40	5	188	
SVR/40P(L)		RU	RU	17.28~39.6	4.8~11	4~26	1000~2200	40			
SV/65Q(L)	30	M	M	24.3~111	6.5~30.8	5~29.5	700~1500	50	5	280	
SVR/65Q(L)		RU	RU	22.5~105	6.25~29.15	5.5~30.5	700~1500	51			
SVR/65Q(L)	75	M	M	54~289	15~80.3	5~35	500~1200	56	5	370	
SV/100R(L)		M	M	64.8~285	18~79.2	7.5~36	600~1200	62			
SVR/100R(L)	110	M	M	108~479.16	30~133.1	8.5~40	500~1000	52	5	450	
SV/150S(L)	110	M	M	189~891	152.5~247.5	6.5~37	400~850	64	5	520	
SV/200T(L)	200	M	M	261~1089	72.5~302.5	7.5~33.5	400~750	60	5	575	
SV/300T(L)	200	M	M	288~1267	80~352	6.5~33	350~700	50	5	610	

NOTE: "M":Wear-resistant alloy. "RU":rubber

Type SV and SVR Sump Pumps Selection Chart



Three-kind construction of the pump inlet

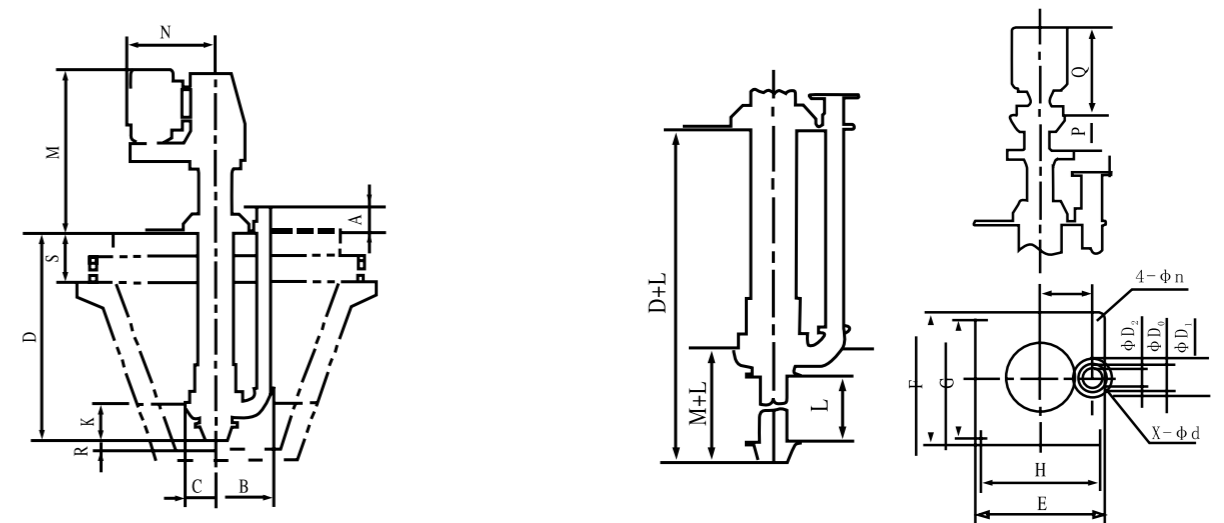


Standard Type with Strainer

Suction Pipe with Strainer

With Agitator

Outline Installation Drawing



Belt Drive

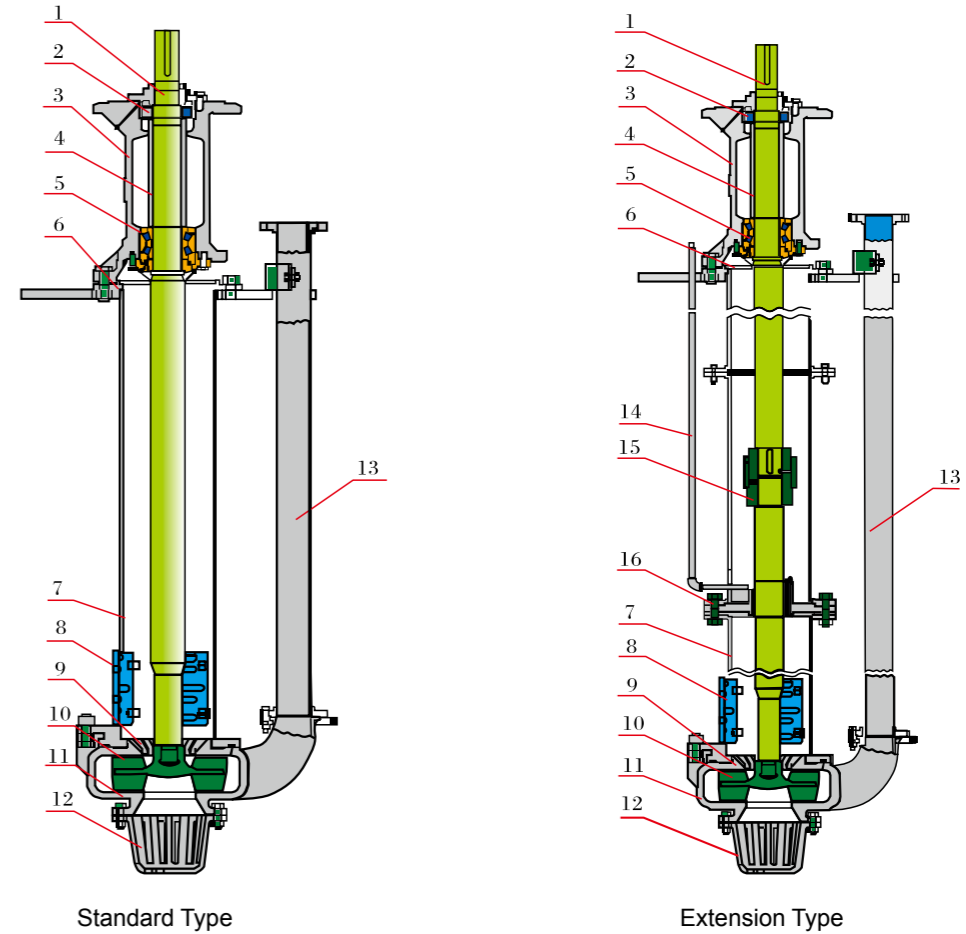
Direct Coupled Drive

Outline Dimensions for SV and SVR Sump Pumps

PUMP	Discharge Dia.(mm)	FRAME TYPE	TYPE	A		B		C		D		E	F	G	H	J	Φn	K	M	N	P	Q	Pump Weight kg	S	Discharge Flange Size			
				SV	SVR	SV	SVR	SV	SVR	STANDRAD TYPE	EXTENSION TYPE														φD ₁	φD ₂	φD ₀	X-φd
P(L)	40	SV	SVR	137	285	153	900*	1800*	500	500	450	205	18	174	137	675	248	629	285	280	127	40	98	4-φ16				
				140	265	175	1200	2500	680	680	620	680	285	18	265	140	794	290	681	432	350	178	65	140	4-φ19			
Q(L)	65	SV	SVR	227	399	231	900*	2200*	680	680	620	285	18	265	1396	794	290	681	432	350	178	65	140	4-φ19				
				230	380	260	1200	2500	1000	1000	930	1000	400	22	393	1803	1020	416	960	867	350	229	100	191	8-φ19			
R(L)	100	SV	SVR	265	538	317	1200	2400	870	870	800	400	22	393	1809	1020	416	960	867	350	280	150	241	8-φ22				
				266	535	332	1500*	3000	1100	1100	1030	1100	500	28	475	2186	1200	476	1011	1737	350	280	150	241	8-φ22			
S(L)	150	SV	SVR	390	670	365	1500	2800*	1100	1100	1030	500	28	475	2194	1200	476	1011	1737	350	343	200	298	8-φ22				
				395	670	400	1800*	3400	1200	1200	1100	1200	600	28	550	2191	1300	476	1011	2800	350	343	200	298	8-φ22			
S(L)	200	SV	SVR	450	805	440	1500	2800*	1300	1300	1100	600	28	550	2191	1300	476	1011	2800	350	343	200	298	8-φ22				
				450	805	440	1800*	3200	1300	1300	1100	1300	600	28	550	2191	1300	476	1011	2800	350	343	200	298	8-φ22			
T(L)	250	SV	SVR	500	930	470	1800	3200	1450	1450	1350	700	48	685	2572	1750	561	1246	3700	400	406	250	362	12-φ25				
				500	930	470	2100*	3600	1750	1750	1650	1750	700	48	685	2572	1750	561	1246	3700	400	406	250	362	12-φ25			
T(L)	300	SV	SVR	500	1170	559	1800	3200	1450	1450	1350	700	48	700	2476	1750	561	1246	2476	400	483	300	432	12-φ25				
				400	1090	630	2100*	3600	1750	1750	1650	1750	700	48	700	2476	1750	561	1246	2476	400	483	300	432	12-φ25			

NOTE:L size:0,300,600,900,1200,1800,Standard pump;L=0
R dimension range:300-500mm

Construction Drawing for SV and SVR Sump Pump



Standard Type

Extension Type

Type SV all metal for abrasive duty.
Type SVR elastomer protected for acid/abrasive duty.

Serial number	Parts name	Serial number	Parts name
1	SHAFT	9	BACK LINER
2	BEARING	10	IMPELLER
3	BEARING HOUSING	11	PUMP CASING
4	BEARING SPACER	12	LOWER STRAINER
5	BEARING	13	DISCHARGE PIPE
6	SHIM	14	FLUSHING PIPE
7	COLUMN	15	COUPLING PART
8	STRAINER	16	MIDDLE SUPPORT PART

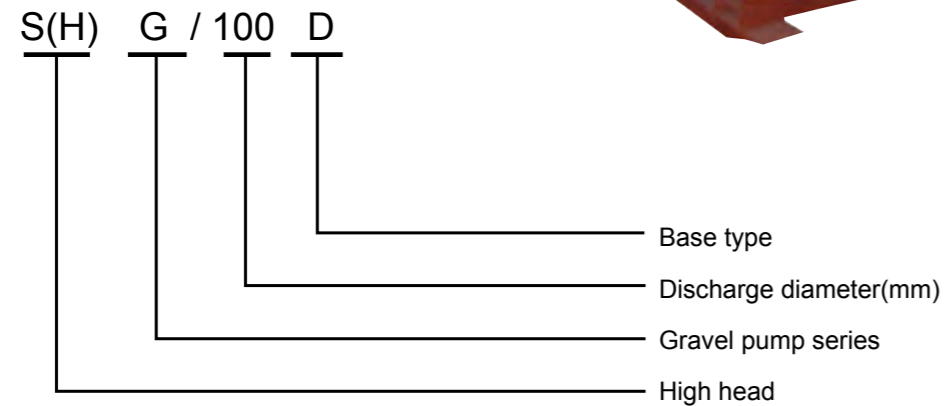
SG/SHG Gravel Pumps

Product Features

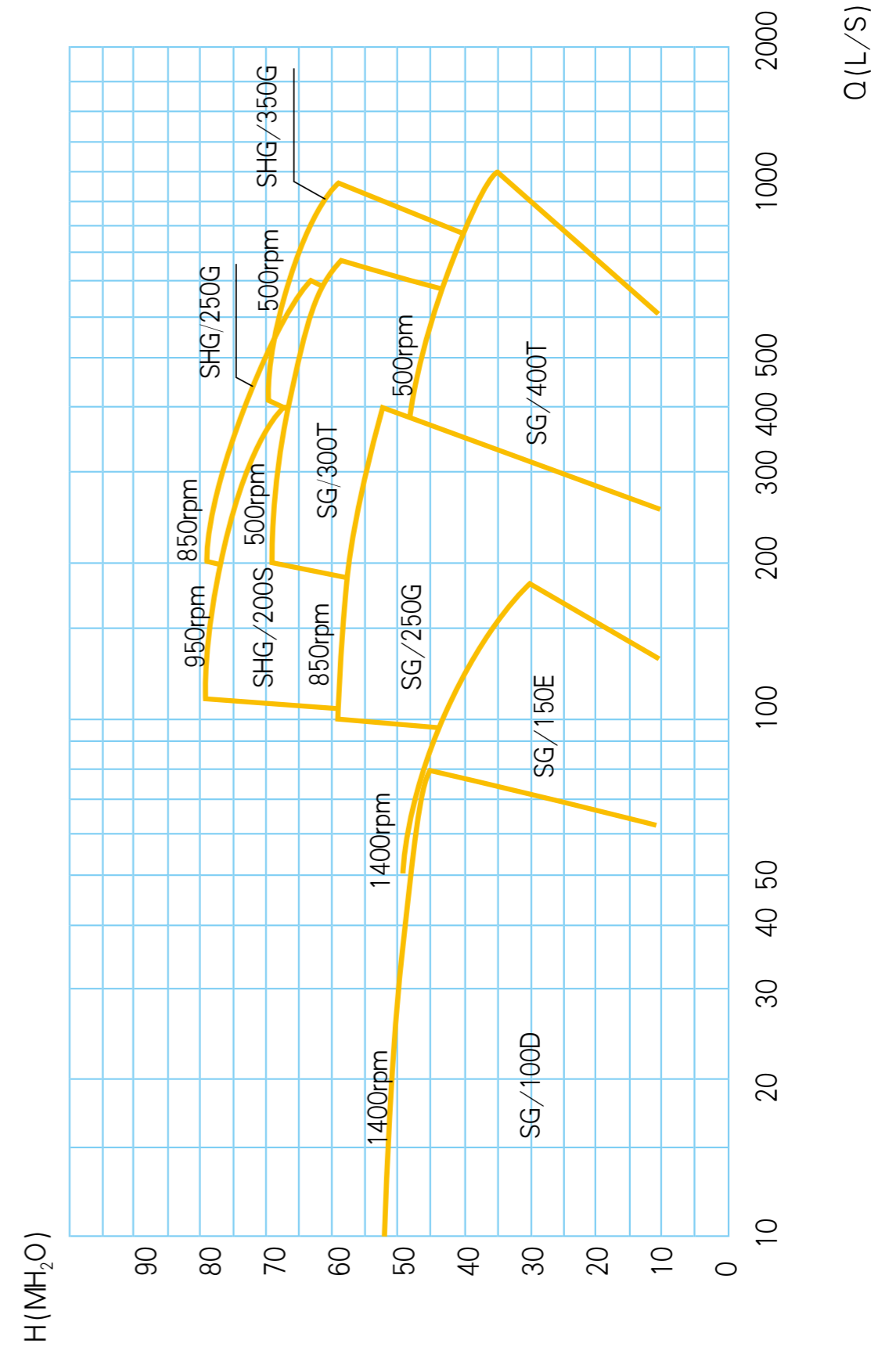
Type SG(or SHG) gravel pumps are designed for continuously handling the most difficult higher abrasive slurries which contain too big solids to be pumped by a common pump.They are suitable for delivering slurries in Mining,Explosive_sludge in metal melting,Dredging in dredger and course of rivers,and other fields.Type SHG pumps are of high-head ones.

Construction of this pump is of single casing connected by means of clamp bands and wide wet-passage.The wet-parts are made of Ni_hard and high chromium abrasion-resistance alloys.The discharge direction of pump can be oriented in any direction of 360°This type of pump possesses the advantages of easy installation and operation,good performance of NPSH and abrasion-resistance.

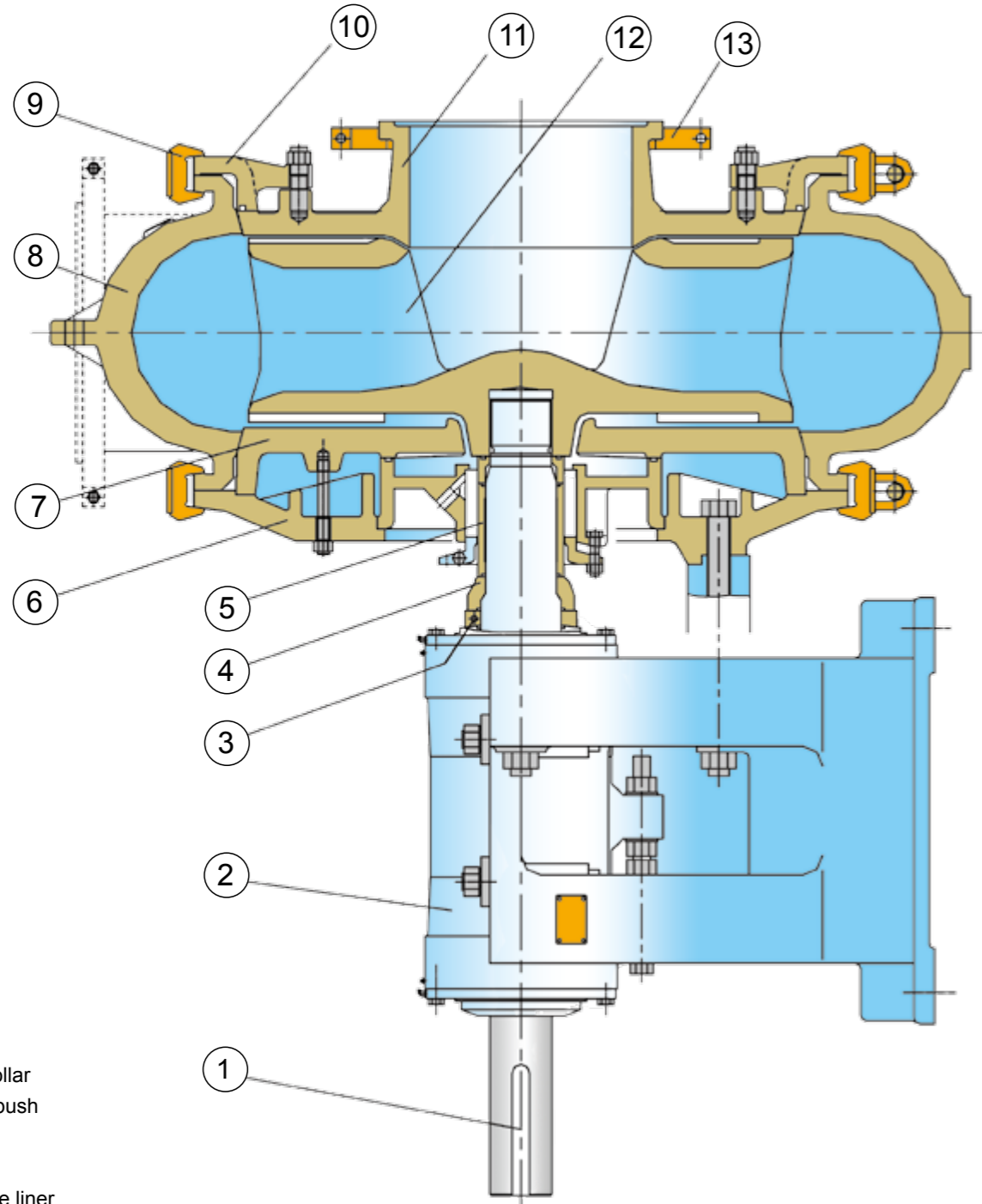
Type Notation



Gravel pumps selection chart

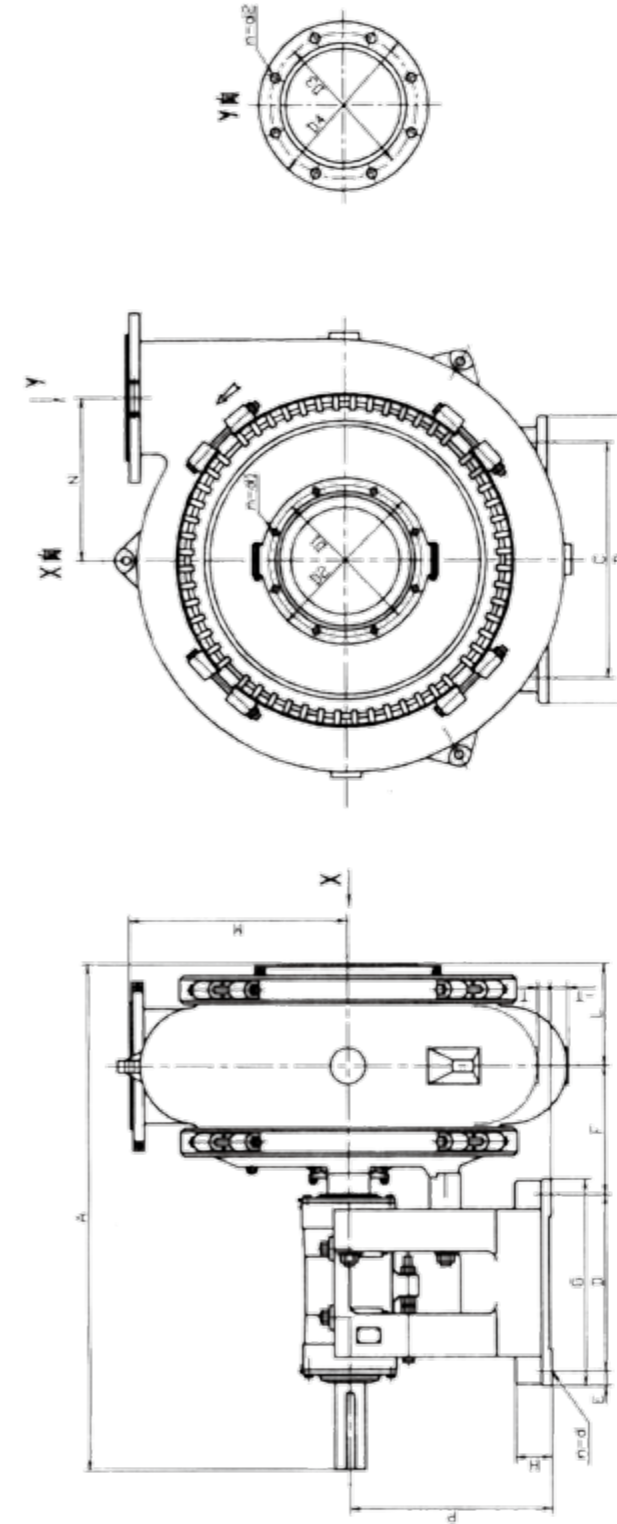


SG(SHG) Construction Design



- 1. Shaft
- 2. Frame
- 3. Release collar
- 4. Restrictor bush
- 5. Seal assy
- 6. Joint plate
- 7. Frame plate liner
- 8. Frame plate
- 9. Clamp
- 10. Cover plate
- 11. Cover plate liner
- 12. Impeller
- 13. Suction flange

Outline Dimensions for type SG and SHG



Pump type	Out line dimensions													Bolt holes			Suction flange			Discharg flange			Weight Kg	
	A	B	C	D	E	F	G	H	L	M	N	P	T	n-d	D1	D2	n-d1	D3	D4	n-d1	D3	D4		n-d1
SG/100D	1006	492	432	213	213	330	289	54	203	343	260	330	16	4-F22	260	305	8-Φ19	210	254	4-Φ19	210	254	4-Φ19	460
SG/150E	1286	622	546	257	257	392	365	75	295	405	352	457	54	4-F29	324	368	8-Φ19	210	254	4-Φ19	210	254	4-Φ19	1120
SG/200F	1591	857	762	349	349	487	540	98	330	533	416	610	60	4-F35	406	457	8-Φ19	210	254	4-Φ19	210	254	4-Φ19	2250
SG/200S	1720	920	780	640	640	378	780	90	660	533	416	450	-102	4-F35	406	457	8-Φ19	210	254	4-Φ19	210	254	4-Φ19	2285
SG/250G	2010	1207	851	749	749	473	876	152	368	665	522	851	238	4-F41	470	527	8-Φ19	210	254	4-Φ19	210	254	4-Φ19	4450
SG/300G	2096	1207	851	749	749	502	876	152	424	787	610	851	121	4-F41	495	552	8-Φ19	210	254	4-Φ19	210	254	4-Φ19	5400
SHG/200S	1774	920	760	640	640	455	780	90	330	620	473	450	-206	4-F35	406	457	8-Φ19	210	254	4-Φ19	210	254	4-Φ19	3188

SF Series Froth Pump

Product Feature

SF series froth pumps are SME newly designed & developed products based on the advanced technology from home and abroad. Being popularized and promoted; now they are widely used in metallurgical industry, mining sector, coal ore and chemical engineering to handle abrasive and corrosive slurries with foam and froth. When operated, SF pumps can effectively eliminate foam and froth in slurry and will also function properly even with inadequate feeding slurry, thus making them the ideal choice for delivering foam slurries, esp. in flotation process.

Type Notation



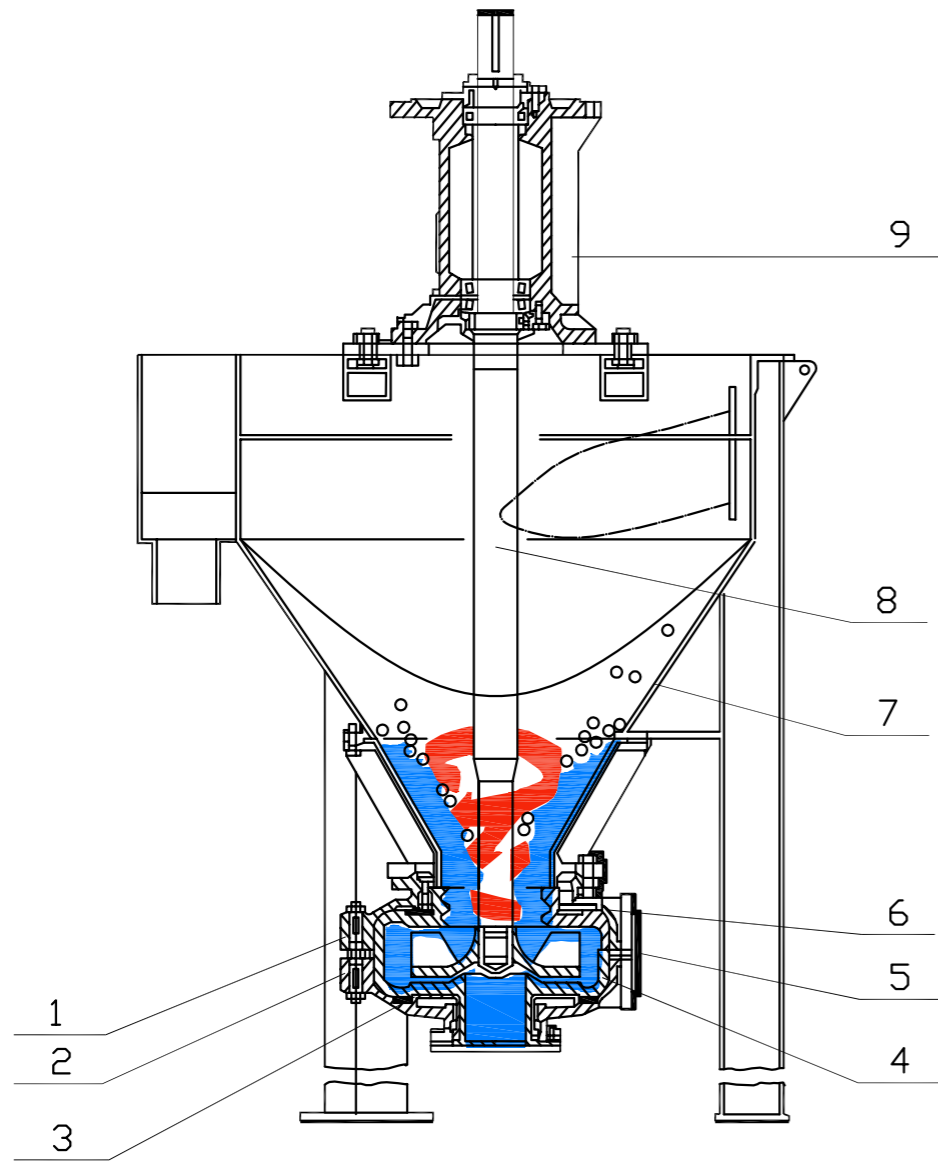
Structure Features

1. Bearing assembly of SF series is the same with that of SV, SVR series. Bearing housing is installed with motor frame base or supporting plate, i.e. pump and motor are connected either directly with coupling or through pulley and belts. Pulleys can be exchanged conveniently to adjust the pump rotating speed to satisfy the varying operating conditions.
2. Feeding tank can be steel, stainless steel or coated with rubber with overflow box and tangential inlet. The former can transmit the excessive incoming slurry back to its pit, while the latter will allow the slurry quickly get into the pump body and make part of the foams disappear.
3. Double casings structure the pump head. Wetted parts are metal lined, rubber lined or of other non-metallic material according to the different slurries.

Performance range

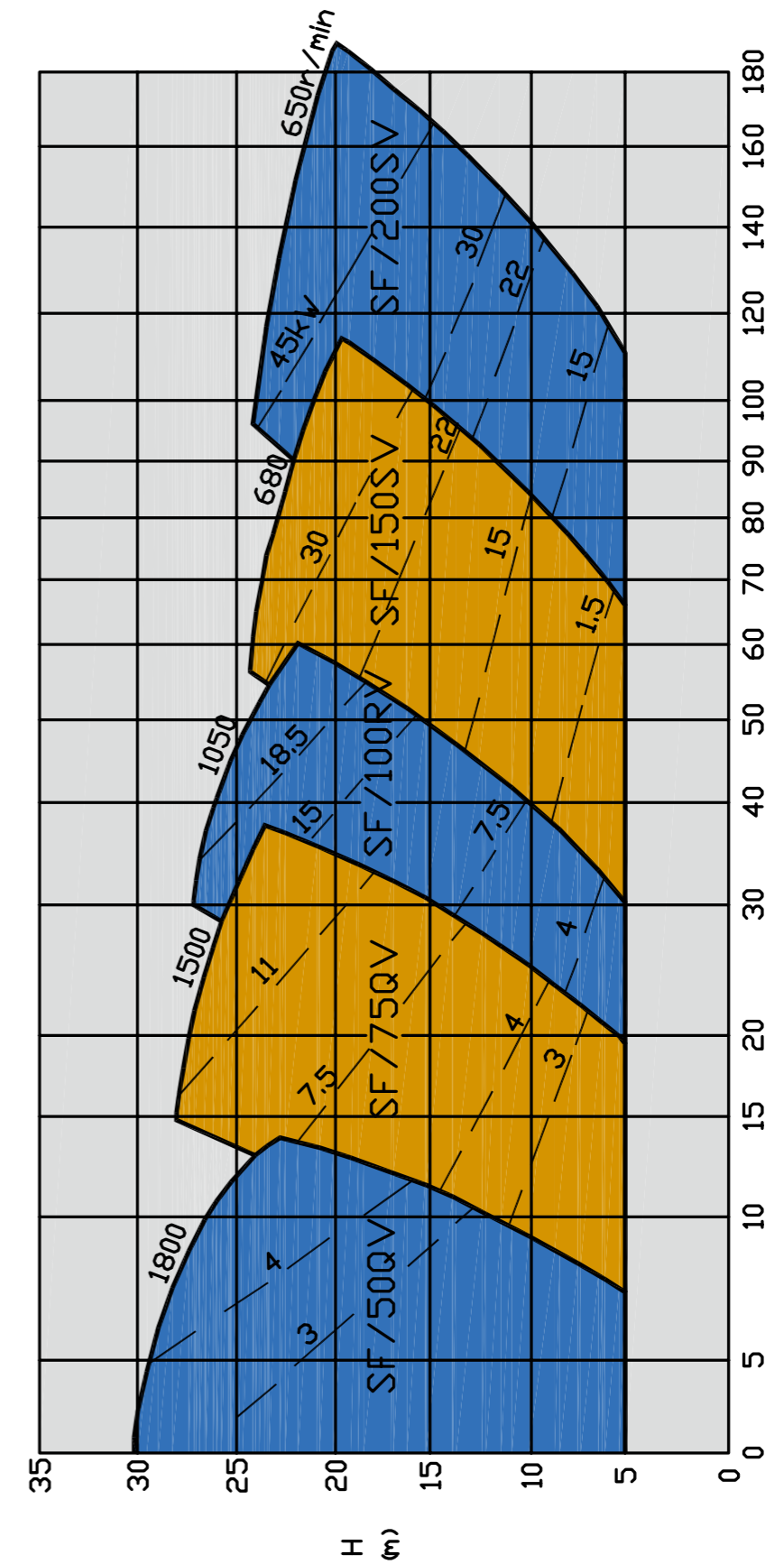
Model	Capacity (m ³ /h)	Head (m)	Speed N (r/min)	Eff(%)	Installed with power	Diameter	
						inter(mm)	Outlet(mm)
SF/50QV	7.6~42.8	6~29.5	800~1800	45	15	100	50
SF/75QV	23~77.4	5~28	700~1500	55	18.5	150	75
SF/100RV	33~187.2	5~28	500~1050	55	37	150	100
SF/150SV	80~393	5~25	250~680	55	75	200	150
SF/200SV	126~575	5.5~25.5	350~650	55	110	250	200

Construction Drawing Of Froth Pump SF



- | | |
|-----------------------------|----------------------|
| 1- frame plate | 6- frame plate liner |
| 2- cover plate | 7- tank |
| 3- cover plate liner insert | 8- shaft |
| 4- volute liner | 9- bearing housing |
| 5- impeller | |

FROTH PUMPS SELECTION CHART



Note: Approximate performance for clear is used for primary selection only

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