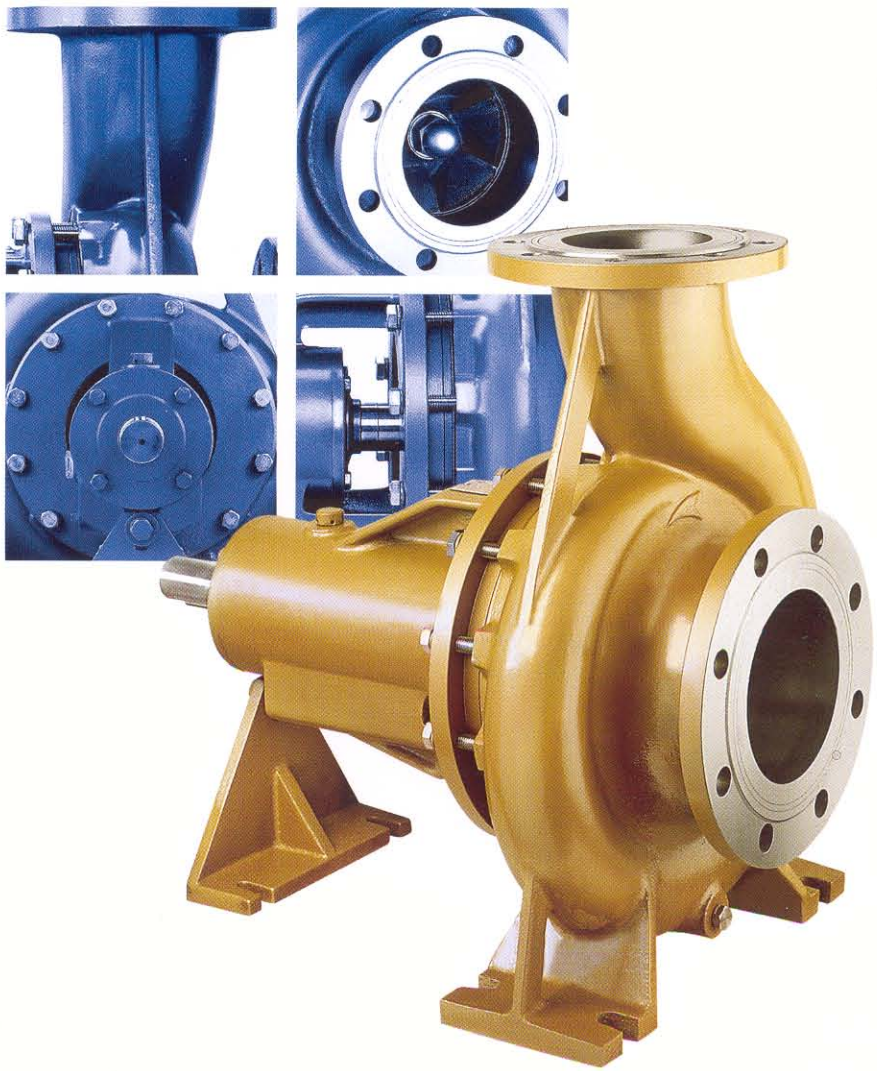
KEWPUMP®

Keeps Pumping



KS-SR

GENERAL APPLICATION PUMP

COMPLIES WITH ISO 2858 STANDARD

TÜV CERT ISO 9001 : 2000 Certificate: 04100 2002 1779 ES QUALITY MANAGEMENT SYSTEM

Enterprise 50 2006

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Design

The KS-SR range of pumps is manufactured for a wide range of flow and head requirements and fully complies with ISO 2858:1975 standard. Back pull-out design to give instant access to most parts for simple and quick maintenance.

Materials of Construction

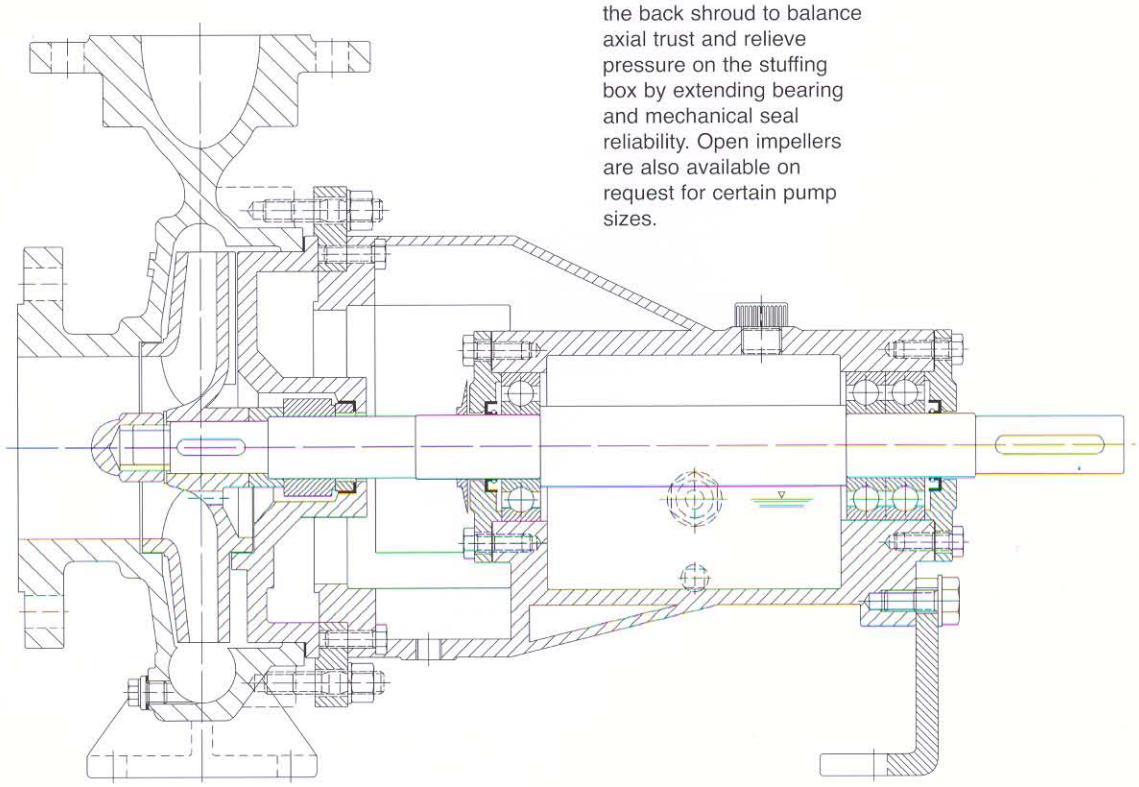
All standard pump components in contact with the fluid are made of Stainless Steel 304 (CF-8). Stainless Steel 316 (CF-8M) and Cast Iron are also available upon request.

FLANGES
Flanges are drilled according to ISO 7005-1:1992 - PN16.

CASING
Highly efficient one-piece volute type with integrally cast feet. End suction with vertical centreline discharge nozzle.

IMPELLER
Enclosed type with twisted vane design for maximum performance. Swept back clearing vanes or impeller running rings are cast onto the back shroud to balance axial trust and relieve pressure on the stuffing box by extending bearing and mechanical seal reliability. Open impellers are also available on request for certain pump sizes.

SHAFT
Robust and stiff solid shaft ensures less deflection at the seal face to extend the mechanical seal life.



SHAFT SLEEVE
For gland packing sealing, renewable hook type shaft sleeve is fitted to prevent shaft damage under the gland packing.

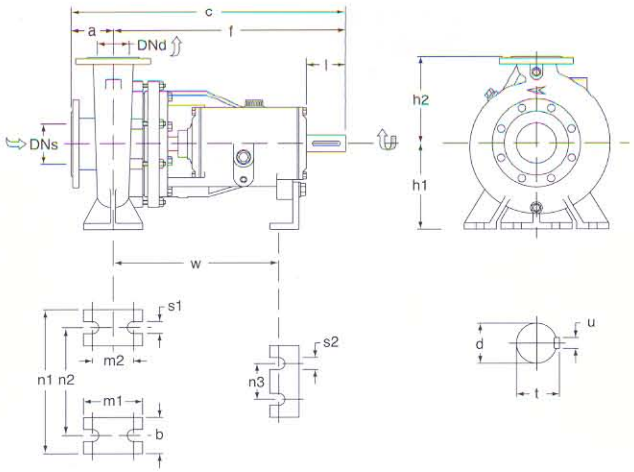
STUFFING BOX COVER
Cast in one-piece with large bore seal chamber available on all pumps furnished with mechanical seal. Standard bore stuffing box cover can be fitted with a packed gland as an alternative.

BEARING BRACKET
Rigid single-piece cast iron construction and in connection with the support foot. Designed with large oil reservoir for better dissipation of heat, and standard oil level bulls-eye sight glass for easy monitoring.

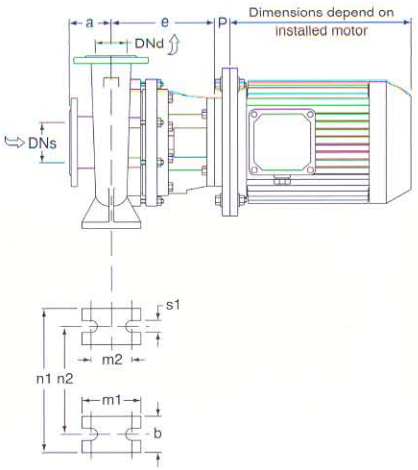
BEARINGS
Heavy duty, single row, deep groove ball bearings are designed with oil bath lubrication. Each bearing is protected by a cast iron cover with inbuilt oil seal to ensure an exceptionally long, trouble free bearing life.

KEWPUMP® KS-SR GENERAL DIMENSIONS

SR (BARESHAFT)



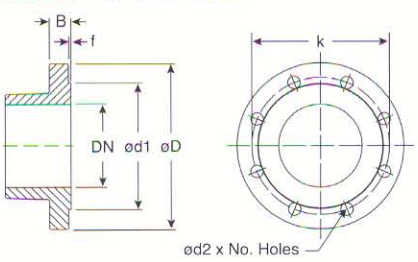
SRM (CLOSE-COUPLED)



Dimensions in mm

PUMP MODEL	SR & SRM (where applicable)																			SRM	
	Flanges		Pump Dimensions					Foot Dimensions									Shaft End				Close-Coupled Dimensions	
	DNd	DNs	a	f	c	h1	h2	b	m1	m2	n1	n2	n3	s1	s2	w	d	l	t	u	e	P
32-130	32	50	80	385	465	112	140	50	100	70	190	140	110	14	14	285	24	50	27.9	8	151	Motor Sizes 80M, 90S, 90L P = 0
32-160						132	160				240	190									193	
32-200						160	180															
32-260			100	500	600	180	225	65	125	95	320	250				370	32	80	35.3	10	198	
40-130	40	65	80	385	465	112	140	50	100	70	210	160	110	14	14	285	24	50	27.9	8	151	
40-160						132	160				240	190									193	
40-200			100		485	160	180				265	212										
40-260				500	600	180	225	65	125	95	320	250				370	32	80	35.3	10	198	
40-320			125		625	200	250				345	280										
50-130	50	80	100	385	485	132	160	50	100	70	240	190	110	14	14	285	24	50	27.9	8	151	
50-160						160	180				265	212									193	
50-200							200															
50-260			125	500	625	180	225	65	125	95	320	250				370	32	80	35.3	10	198	
50-320						225	280				345	280										
65-130	65	100	100	385	485	160	180	65	125	95	280	212	110	14	14	285	24	50	27.9	8	151	
65-160				500	600		200									370	32	80	35.3	10	198	
65-200						180	225				320	250										
65-260			125		625	200	250	80	160	120	360	280		18								
65-320[1]				530	655	225	280				400	315					42	95	45.1	12	203	
80-160	80	125	125	500	625	180	225	65	125	95	320	250	110	14	14	370	32	80	35.3	10	198	
80-200							250				345	280										
80-260[2]						200	280	80	160	120	400	315		18			42	95	45.1	12	203	
80-320[1]				530	655	250	315															
80-400[1]						280	355				435	355									--	
100-160	100	125	125	500	625	200	280	80	160	120	340	260	110	18	14	370	32	80	35.3	10	198	
100-200											360	280										
100-260[1]			140	530	670	225					400	315					42	95	45.1	12	203	
100-320[1]						250	315															
100-400[1]						280	355	100	200	150	500	400		23							--	
125-200	125	150	140	500	640	250	315	80	160	120	400	315	110	18	14	370	32	80	35.3	10	198	
125-260[1]				530	670		355										42	95	45.1	12	203	
125-320[1]						280		100	200	150	500	400		23							--	
125-400[1]						315	400															
150-200	150	200	160	500	660	280	375	100	200	150	550	450	110	23	14	370	32	80	35.3	10	--	
150-260[1][4]				530	690												42	95	45.1	12		
150-320[3]				670	830		400						140		18	500	48	110	51.5	14		
150-400						315	450															
200-400[5]	200	200	180	630	810	355	450	120	250	180	620	500	180	23	18	390	55	100	60	15.9	--	
200-500[5]						400	500				670	550										

1) In these models the dimension "l" is 15mm shorter than the specified in ISO 2858. The dimension "f" is according to ISO 2858
2) In this model the dimension "h1" is 25mm smaller than the specified in ISO 2858
3) In this model the dimension "h1" is 35mm smaller than the specified in ISO 2858
4) In this model the dimensions "n1" and "n2" are 50mm bigger than the specified in ISO 2858
5) These models are additional sizes and not specified in ISO 2858



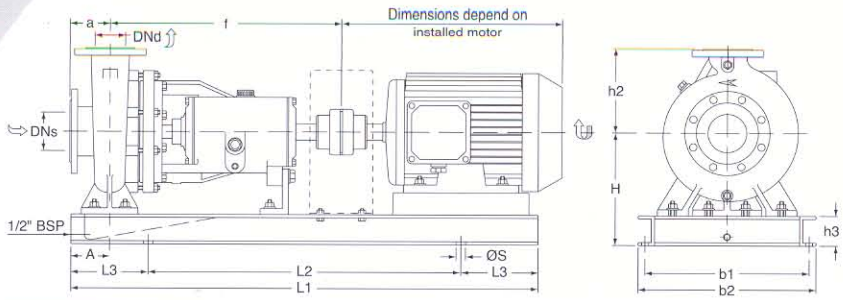
Dimensions in mm

NOMINAL DIA.	Flange		Raised Face		Drilling*			Bolting
	D	B	d1	f	No.	d2	k	
32	140	18	76	2	4	18	100	M16
40	150	18	84	2	4	18	110	M16
50	165	20	99	2	4	18	125	M16
65	185	20	118	2	4**	18	145	M16
80	200	20	132	2	8	18	160	M16
100	220	22	156	2	8	18	180	M16
125	250	22	184	2	8	18	210	M16
150	285	24	211	2	8	22	240	M20
200	340	24	266	2	12	22	295	M20

Flange dimensions and drilling according to ISO 7005-1:1992 - PN16
* Holes equally spaced straddling pump centreline
** Number of holes drilled less than the specified in ISO 7005-1:1992 - PN16

Product specifications subject to change without prior notice.

KEWPUMP® KS-SR PUMP SET DIMENSIONS WITH BASEPLATE



Baseplate Dimensions According to ISO 3661

Baseplate Number	Dimensions in mm							For Bolt
	b1	b2	h3	L1	L2	L3	S	
3661.2	320	360	100	800	540	130	18	M16
3661.3	350	390	100	900	600	150	18	M16
3661.4	400	450	100	1000	660	170	22	M20
3661.5	440	490	100	1120	740	190	22	M20
3661.6	490	540	100	1250	840	205	22	M20
3661.7	550	610	125	1400	940	230	26	M24
3661.8	600	660	125	1600	1060	270	26	M24
3661.9	670	730	150	1800	1200	300	26	M24

Dimensions in mm

PUMP MODEL	Flanges		Set Dimensions				H and the Standardized Baseplate Number, in Terms of Motor Size (I.E.C.)																
	DNd	DNs	a	f	A	h2	71M	80M	90S	90L	100L	112M	132S	132M	160M	160L	180M	180L	200L	225S	225M	250M	280S	280M
32-130	32	50	80	385	60	140			212 *3661.2*														
32-160						160				232 *3661.2*			*3661.3*	*3661.4*									
32-200						180					260 *3661.2*		*3661.3*	*3661.4*		260 *3661.4*							
32-260			100	500	75	225					280 *3661.4*					280 *3661.5*	*3661.6*						
40-130	40	65	80	385	60	140				212 *3661.2*			232 *3661.3*	*3661.4*									
40-160						160					232 *3661.2*		*3661.3*	*3661.4*		260 *3661.4*							
40-200			100			180					260 *3661.3*		260 *3661.4*			260 *3661.4*							
40-260				500	75	225					280 *3661.4*					280 *3661.5*	*3661.6*		325 *3661.7*				
40-320			125			250						300 *3661.5*											
50-130	50	80	100	385	60	160					232 *3661.2*		*3661.3*	*3661.4*		260 *3661.4*							
50-160						180					260 *3661.3*		260 *3661.4*			260 *3661.4*							
50-200						200					260 *3661.3*		260 *3661.4*			260 *3661.4*	280 *3661.5*		325 *3661.7*				
50-260			125	500	75	225						280 *3661.4*			*3661.5*	*3661.6*			325 *3661.7*		350 *3661.7*	375 *3661.8*		
50-320						280						325 *3661.5*				*3661.6*							
65-130	65	100	100	385	75	180					260 *3661.4*				260 *3661.4*	*3661.5*							
65-160				500		200					260 *3661.4*				260 *3661.5*	*3661.6*	280						
65-200						225						280 *3661.4*			*3661.5*	*3661.6*			325 *3661.7*		350 *3661.7*			
65-260			125		90	250						300 *3661.5*					300 *3661.6*		325 *3661.7*		350 *3661.7*	375 *3661.8*	430 *3661.9*	
65-320				530		280							325 *3661.6*										
80-160	80	125	125	500	75	225					280 *3661.4*				280 *3661.5*	*3661.6*			325 *3661.7*				
80-200						250						280 *3661.5*				*3661.6*			325 *3661.7*		350 *3661.7*	375 *3661.8*	
80-260					90	280							300 *3661.6*						325 *3661.7*		350 *3661.7*	375 *3661.8*	430 *3661.9*
80-320				530		315								350 *3661.6*					375 *3661.7*				
80-400						355									405 *3661.7*								
100-160	100	125	125	500	90	280					300 *3661.5*				300 *3661.6*				325 *3661.7*				
100-200												300 *3661.5*				*3661.6*			325 *3661.7*		350 *3661.7*	375 *3661.8*	430 *3661.9*
100-260			140	530									325 *3661.6*						350 *3661.7*		350 *3661.7*	375 *3661.8*	430 *3661.9*
100-320						315									350 *3661.6*				375 *3661.7*				
100-400					110	355													405 *3661.8*				
125-200	125	150	140	500	90	315									350 *3661.6*						375 *3661.8*	430 *3661.9*	
125-260						355									350 *3661.6*				375 *3661.7*				
125-320				530	110											405 *3661.8*							
125-400						400													440 *3661.8*			465 *3661.9*	
150-200	150	200	160	500	110	375										430 *3661.9*							
150-260				530															430 *3661.9*				
150-320				670		400														430 *3661.9*			
150-400						450															465 *3661.9*		
200-400	*Additional sizes, not specified in ISO 2858. Contact manufacturer for pump set and baseplate dimensions.*																						
200-500																							

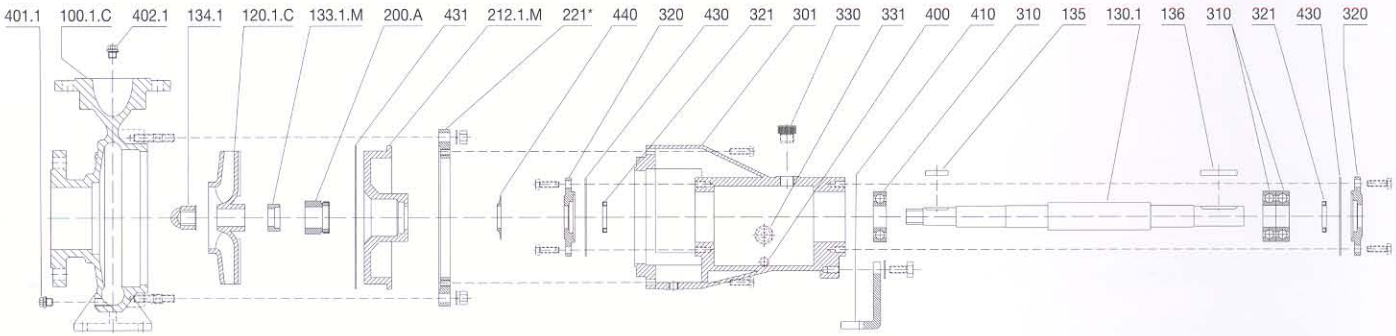
Motor Size and Power IP-55, Standardized to I.E.C.

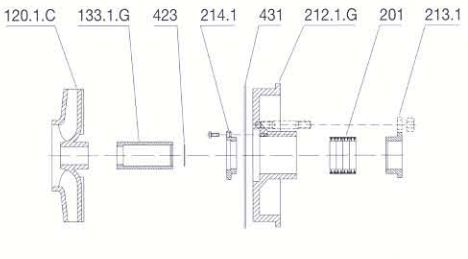
Baseplate selection based on standard couplings used

Power hp at 50 Hz	0.5	0.75	1.0	1.5	2.0	3.0	4.0	5.5	7.5	10	15	20	25	30	40	50	60	75	100	125
Motor Size of 4 Pole	71M	80M		90S	90L	100L		112M	132S	132M	160M	160L	180M	180L	200L	225S	225M	250M	280S	280M
Motor Size of 2 Pole	71M	80M		90S	90L	100L		112M	132S		160M		160L	180M	200L		225M	250M	280S	280M

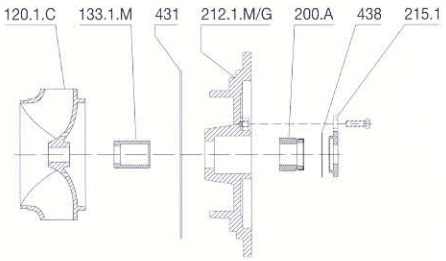
Product specifications subject to change without prior notice.

SR (BARESHAFT)

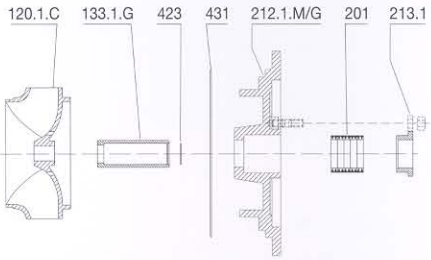




Gland Packing



Models 125-320, 125-400 and models with discharge diameter 150mm and 200mm (Mechanical Sealing)



Models 125-320, 125-400 and models with discharge diameter 150mm and 200mm (Gland Packing)

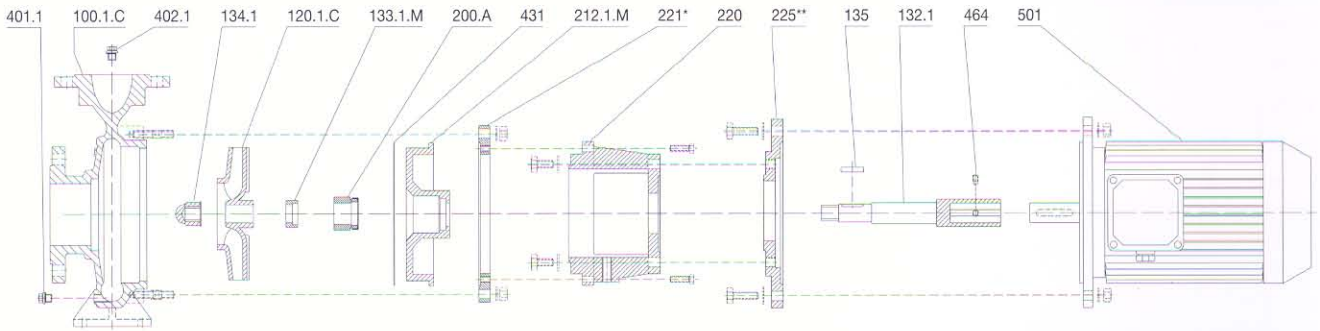
Part No.	Description	Standard Material
100.1.C	Casing for Closed Impeller	Stainless Steel 304
120.1.C	Closed Impeller	Stainless Steel 304
130.1	Shaft	Stainless Steel 304
133.1.G	Shaft Sleeve for Gland Packing	Stainless Steel 304
133.1.M	Shaft Sleeve for Mechanical Sealing	Stainless Steel 304
134.1	Impeller Nut	Stainless Steel 304
135	Key for Impeller	Stainless Steel 304
136	Shaft End Key	Stainless Steel 304
200.A	Mechanical Seal	Carbon vs. Ceramic
201	Packing	Asbestos
212.1.G	Stuffing Box Cover for Gland Packing	Stainless Steel 304
212.1.M	Stuffing Box Cover for Mechanical Sealing	Stainless Steel 304
212.1.M/G	Stuffing Box Cover for Mechanical Sealing and Gland Packing	Stainless Steel 304
213.1	Gland	Stainless Steel 304
214.1	End Ring	Stainless Steel 304
215.1	Seal Cover	Stainless Steel 304

Part No.	Description	Standard Material
221*	Adaptor Extension Ring	Cast Iron
301	Bearing Bracket	Cast Iron
310	Bearing	Steel
320	Bearing Cover	Cast Iron
321	Oil Seal	Synthetic Rubber
330	Oil Cover	Aluminium Alloy
331	Oil Gauge	Plastic Threaded
400	Bearing Bracket Drain Plug	Galvanise Steel
401.1	Casing Drain Plug	Stainless Steel 304
402.1	Venting Plug	Stainless Steel 304
410	Support Foot	Cast Iron
423	Shaft Sleeve "O" Ring	Synthetic Rubber
430	Bearing Cover Gasket	Asbestos Sheet
431	Stuffing Box Cover Gasket	P.T.F.E.
438	Seal Cover Gasket	Asbestos Sheet
440	Deflector	Synthetic Rubber

* For all models except 32-130, 40-130, 50-130, 65-130, 65-160, 80-160, 100-260, 125-260, 125-320, 125-400 and models with discharge diameter 150mm and 200mm.

SRM (CLOSE-COUPLED)

Applicable Models : All models except 80-400, 100-400, 125-320, 125-400 and models with discharge diameter 150mm and 200mm
Applicable Motor Sizes : 80M, 90S, 90L, 100L, 112M, 132S, 132M, 160M, 160L, 180M and 180L

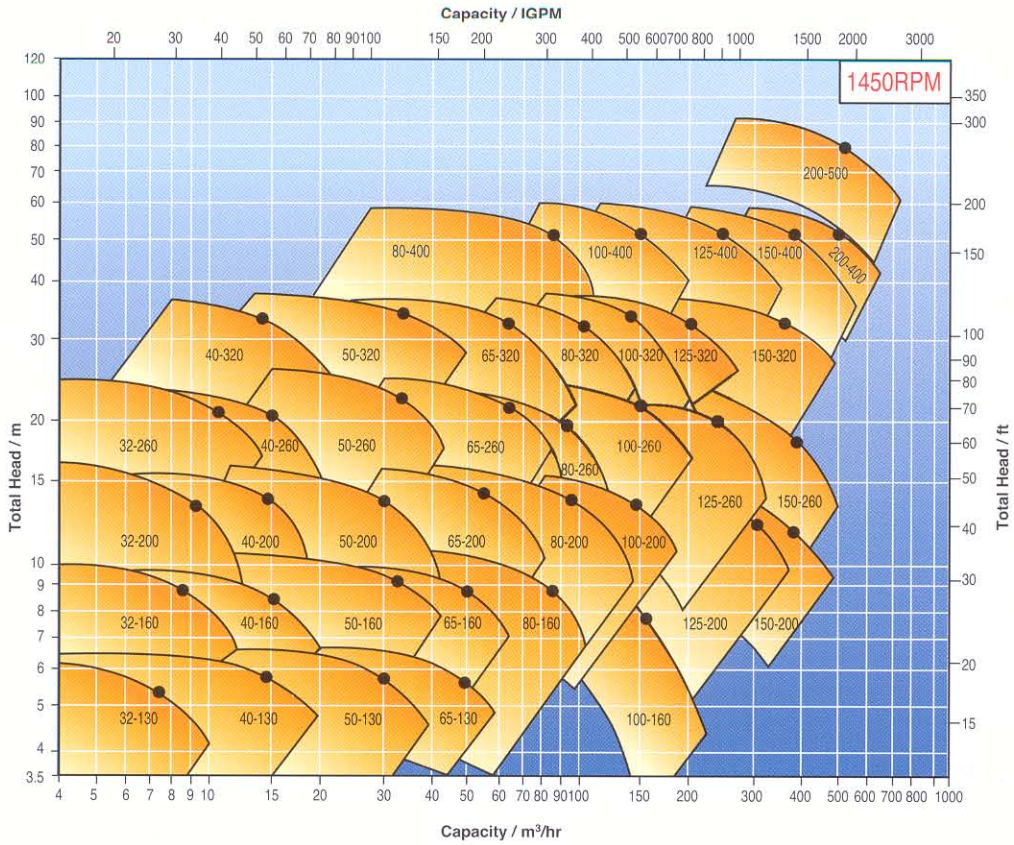


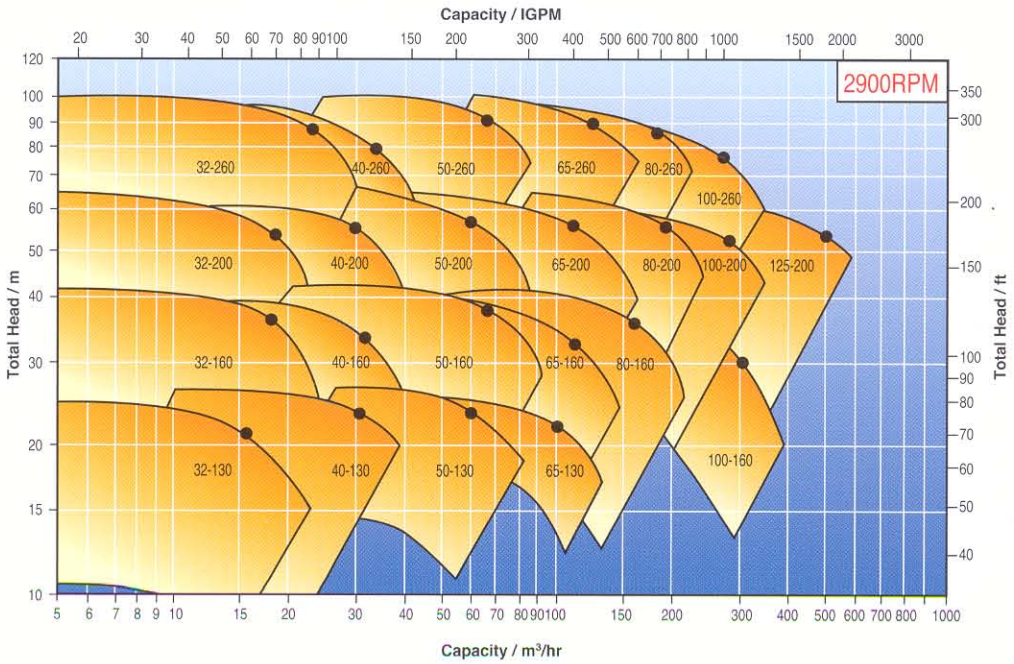
Part No.	Description	Standard Material
100.1.C	Casing for Closed Impeller	Stainless Steel 304
120.1.C	Closed Impeller	Stainless Steel 304
132.1	Motor Extension Shaft	Stainless Steel 304
133.1.M	Shaft Sleeve for Mechanical Sealing	Stainless Steel 304
134.1	Impeller Nut	Stainless Steel 304
135	Key for Impeller	Stainless Steel 304
200.A	Mechanical Seal	Carbon vs. Ceramic
212.1.M	Stuffing Box Cover for Mechanical Sealing	Stainless Steel 304

Part No.	Description	Standard Material
220	Frame Adaptor	Cast Iron
221*	Adaptor Extension Ring	Cast Iron
225**	Motor Adaptor Extension Ring	Cast Iron
401.1	Casing Drain Plug	Stainless Steel 304
402.1	Venting Plug	Stainless Steel 304
431	Stuffing Box Cover Gasket	P.T.F.E.
464	Jam Nut	Stainless Steel 304
501	Flange-Mounted Motor	-

* For all applicable models except 32-130, 40-130, 50-130, 65-130, 32-160, 40-160, 50-160, 65-160 and 80-160
** For all applicable motor sizes except 80M, 90S and 90L

KS-SR PUMP SELECTION CHART





Curve for reference only. For final selection refer to individual pump curve.
Black dots on curves show best efficiency points.

KEWPUMP®

http://www.kewpump.com.my

KS-SR 05/08

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