

**KEWPUMP®**

*Keeps Pumping*



**KS-SG2**

**CHEMICAL PROCESS PUMP**

**COMPLIES WITH ISO 2858**

**& 5199 STANDARDS**

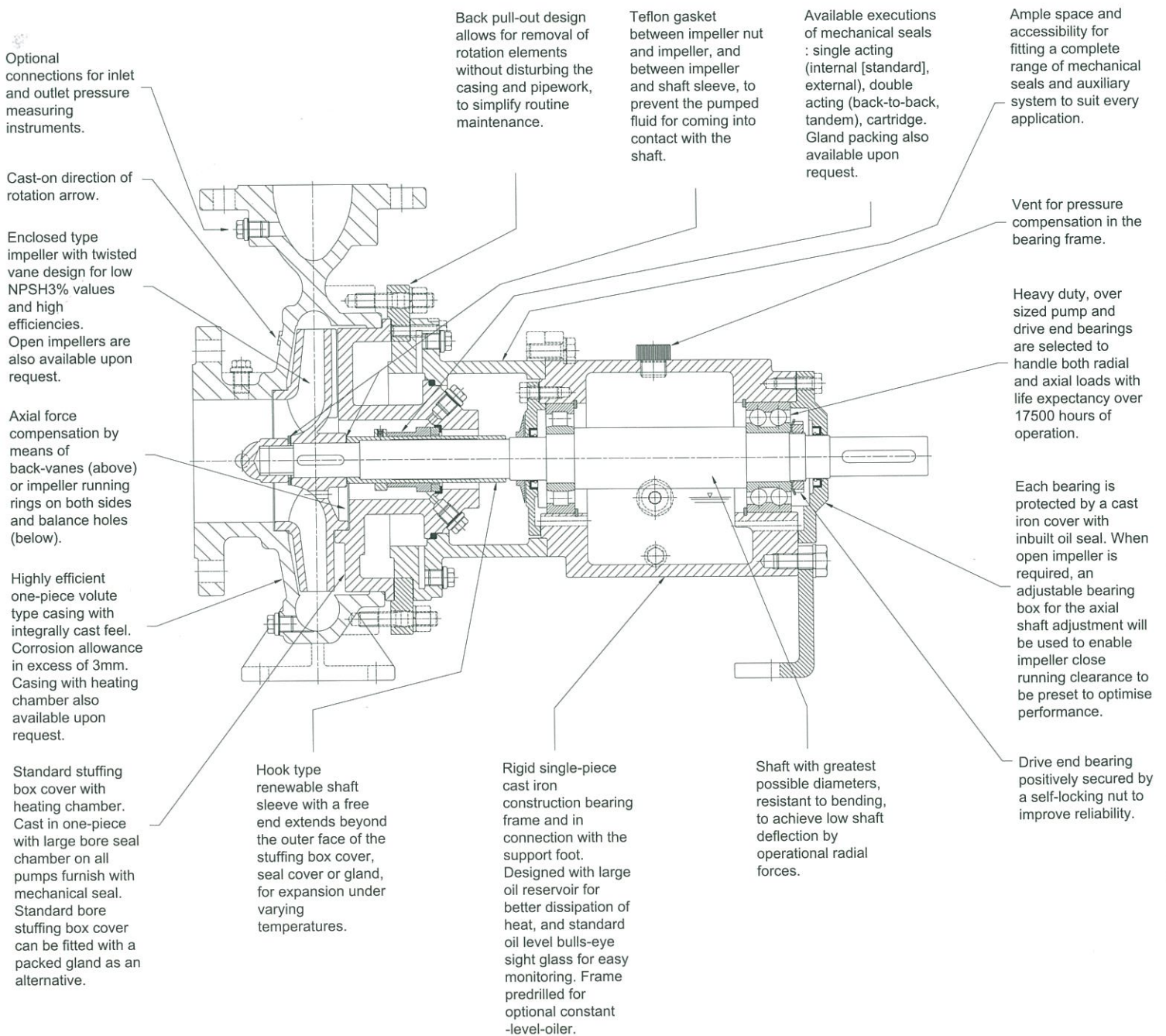


## Fully Compliance with International Standards

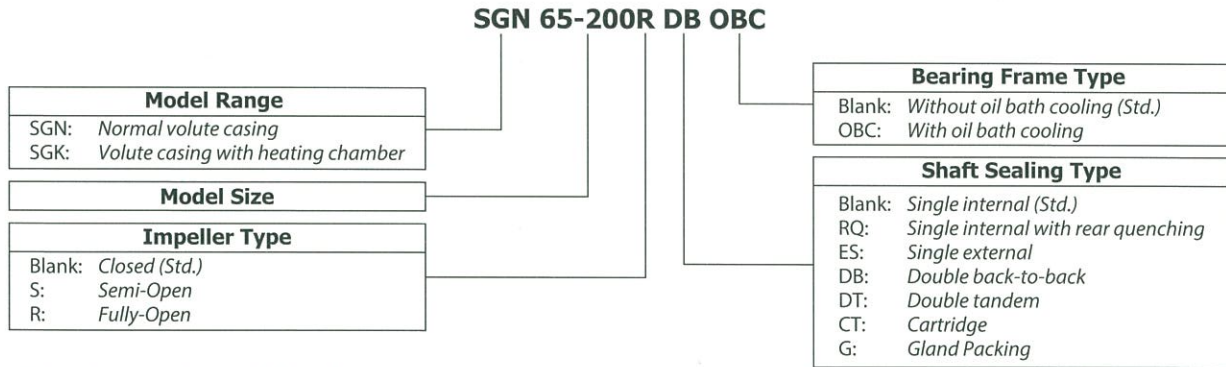
- Dimensions and Performances - ISO 2858:1975
- Design and Construction - ISO 5199:2002
- Flanges Dimensions - ISO 7005-1:1992 - PN16
- Mechanical Seals - DIN 24960
- Baseplates Dimensions - ISO 3661:1977

## Materials of Construction

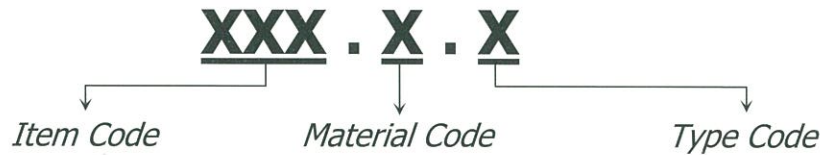
All standard pump components in contact with the fluid are made of Stainless Steel 316 (CF-8M). Other materials are also available upon request.



**MODEL DESIGNATION**



**PART NO. NOTATIONS**



- Part No. with standard material and type are shown in the parts list.

Example Part No. : 120.1.C (Item = Impeller      Material = SS304      Type = Closed)

**Item Code**

- For parts which have no variation in material and type, Part No. contains of Item Code only.

Example Part No. : 440 (Item = Deflector)

**Material Code**

For Item Codes 100, 104, 120, 133, 134, 206, 212, 213, 214, 215, 218, 401, 402, 409 and 463 only :

1 = SS304	4 = Ni-Hard	7 = Alloy 20
2 = SS316	5 = Cast Iron	8 = Mild Steel
3 = CA40	6 = Ductile Iron	9 = CD 4MCu

For Item Codes 200, 204 and 205 only :

Material codes according to DIN 24960 Standard.  
Example : BVVGG = Carbon vs. Ceramic with Viton elastomers

- Available materials for the above items are depended on the product specifications.
- For parts which have no variation in type, Part No. contains of Item Code and Material Code only.

Example Part No. : 213.5 (Item = Gland      Material = Cast Iron)

**Type Code**

For Item Code 100 only :      J = With Heating Chamber

For Item Code 300 only :      OBC = With Oil Bath Cooling

For Item Codes 100, 120 and 300 only :

C = Closed      S= Semi-Open      R = Fully-Open

For Item Code 212 only :

IS = Single Internal      RQ = Single Internal with Rear Quenching  
ES = Single External      DB = Double Back-to-Back  
DT = Double Tandem      G = Gland Packing

For Item Code 214 only :

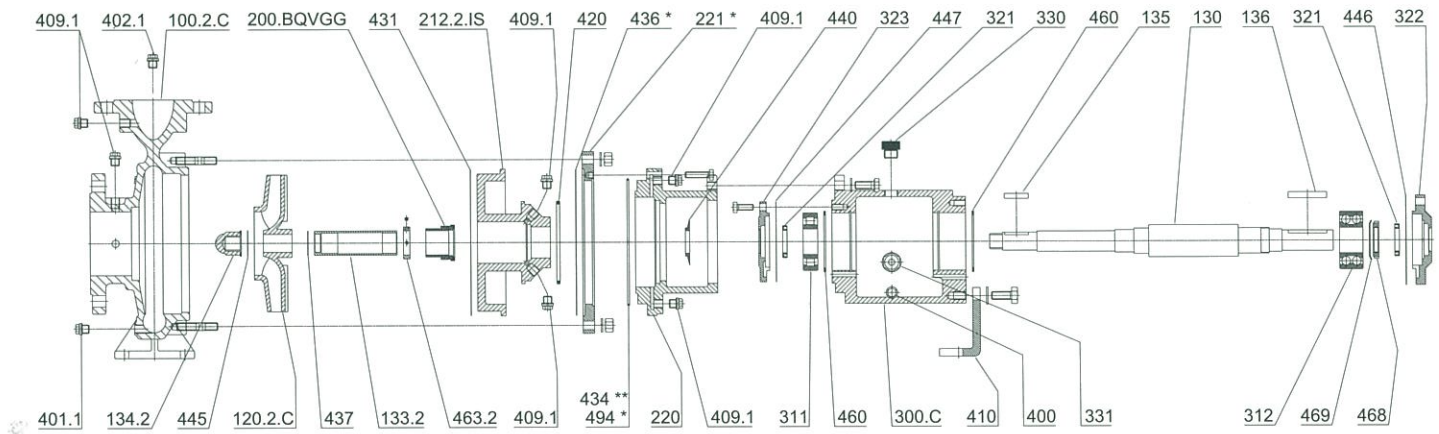
M = Mechanical Sealing      G = Gland Packing

- Available types for the above items are depended on the product specifications.

Example Part No. : 212.2.DB (Item = Stuffing Box Cover      Material = SS316      Type = Double Back-to-Back)

Kewpump (M) Sdn. Bhd. reserves the right to change the materials and types to keep pace with technological progress.

**STANDARD ARRANGEMENT**



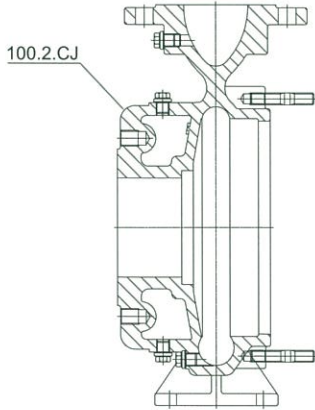
Part No.	Description	Standard Material
100.2.C	Casing for Closed Impeller	Stainless Steel 316
100.2.CJ	Casing for Closed Impeller with Heating Chamber	Stainless Steel 316
100.2.S/R	Casing for Open Type Impeller	Stainless Steel 316
100.2.S/RJ	Casing for Open Type Impeller with Heating Chamber	Stainless Steel 316
104.2	Casing Wear Plate	Stainless Steel 316
120.2.C	Closed Impeller	Stainless Steel 316
120.2.S	Semi-Open Impeller	Stainless Steel 316
120.2.R	Fully-Open Impeller	Stainless Steel 316
130	Shaft	Stainless Steel 304
133.2	Shaft Sleeve	Stainless Steel 316
134.2	Impeller Nut	Stainless Steel 316
135	Key for Impeller	Stainless Steel 304
136	Shaft End Key	Stainless Steel 304
200.BQVGG	Mechanical Seal	Carbon vs. Silicon Carbide
201	Packing	P.T.F.E.
202	V-Seal	Synthetic Rubber
204.BQVGG	Pump End Mechanical Seal	Carbon vs. Silicon Carbide
205.BQVGG	Atmospheric End Mechanical Seal	Carbon vs. Silicon Carbide
206.2	Lantern Ring	Stainless Steel 316
212.2.IS	Stuffing Box Cover for Single Internal	Stainless Steel 316
212.2.RQ	Stuffing Box Cover for Single Internal with Rear Quenching	Stainless Steel 316
212.2.ES	Stuffing Box Cover for Single External	Stainless Steel 316
212.2.DB	Stuffing Box Cover for Double Back-to-Back	Stainless Steel 316
212.2.DT	Stuffing Box Cover for Double Tandem	Stainless Steel 316
212.2.G	Stuffing Box Cover for Gland Packing	Stainless Steel 316
213.2	Gland	Stainless Steel 316
214.2.M	End Ring for Mechanical Sealing	Stainless Steel 316
214.2.G	End Ring for Gland Packing	Stainless Steel 316
215.2	Seal Cover	Stainless Steel 316
220	Frame Adaptor	Cast Iron
221 *	Adaptor Extension Ring	Cast Iron
300.C	Bearing Frame for Closed Impeller	Cast Iron

Part No.	Description	Standard Material
300.COBC	Bearing Frame for Closed Impeller with Oil Bath Cooling	Cast Iron
300.S/R	Bearing Frame for Open Type Impeller	Cast Iron
300.S/ROBC	Bearing Frame for Open Type Impeller with Oil Bath Cooling	Cast Iron
303	Adjustable Bearing Box	Cast Iron
311	Pump End Bearing	Steel
312	Drive End Bearing	Steel
321	Oil Seal	Synthetic Rubber
322	Drive End Bearing Cover	Cast Iron
323	Pump End Bearing Cover	Cast Iron
330	Oil Cover	Alluminium Alloy
331	Oil Gauge	Plastic Threaded
340	Bearing Frame Cooling Coil	Copper
400	Bearing Frame Drain Plug	Stainless Steel 304
401.1	Casing Drain Plug	Stainless Steel 304
402.1	Venting Plug	Stainless Steel 304
409.1	Connection Plug	Stainless Steel 304
410	Support Foot	Cast Iron
420	Stuffing Box Cover "O" Ring	Synthetic Rubber
428	Bearing Box "O" Ring	Synthetic Rubber
431	Stuffing Box Cover Gasket	P.T.F.E.
434 **	Frame Adaptor Gasket	Asbestos Sheet
436 *	Adaptor Extension Ring Gasket	Asbestos Sheet
437	Shaft Sleeve Gasket	P.T.F.E.
438	Seal Cover Gasket	P.T.F.E.
440	Deflector	Synthetic Rubber
445	Impeller Nut Gasket	P.T.F.E.
446	Drive End Bearing Cover Gasket	Oil Proof Paper
447	Pump End Bearing Cover Gasket	Oil Proof Paper
448	End Ring Gasket	P.T.F.E.
460	Cir Clip	Steel
463.2	Abutment Ring	Stainless Steel 316
468	Bearing Nut	Steel
469	Bearing Washer	Steel
481	Cooling Coil Adaptor	Stainless Steel 304
491	Cooling Coil "O" Ring	Synthetic Rubber
494 *	Frame Adaptor "O" Ring	Synthetic Rubber

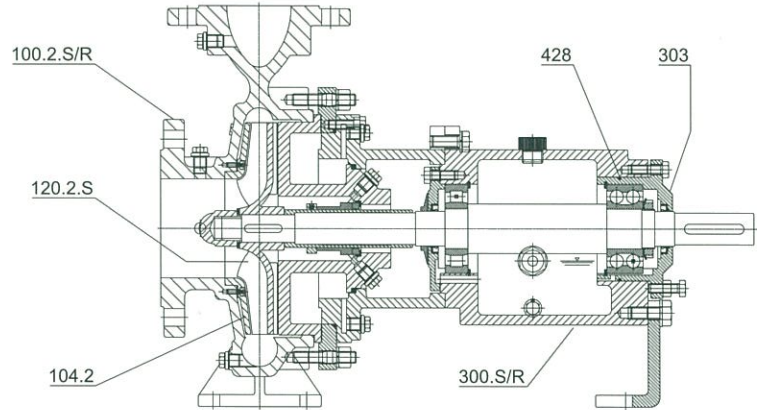
\* For all models except 32-130, 40-130, 50-130, 65-130, 65-160, 80-160, 100-260, 125-260, 125-320, 125-400, 150-200, 150-260 and 150-320

\*\* For models 32-130, 40-130, 50-130, 65-130, 65-160, 80-160, 100-260, 125-260, 125-320, 125-400, 150-200, 150-260 and 150-320

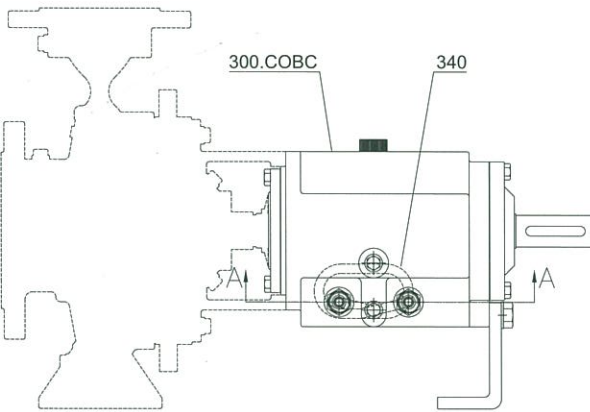
## DESIGN VARIANTS



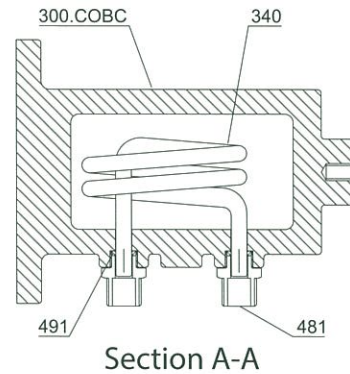
Casing with Heating Chamber



Open Type Impeller with Casing Wear Plate and Axial Adjustment

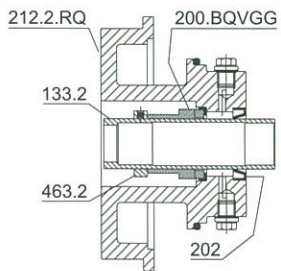


Bearing Frame with Oil Bath Cooling

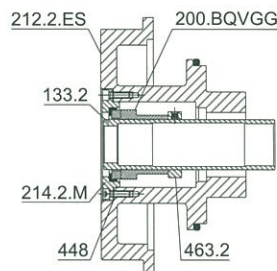


Section A-A

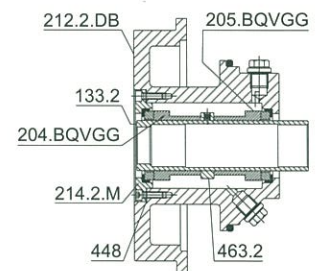
## SHAFT SEAL OPTIONS



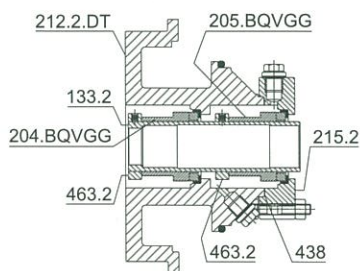
Single Internal with Rear Quenching



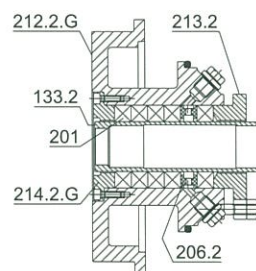
Single External



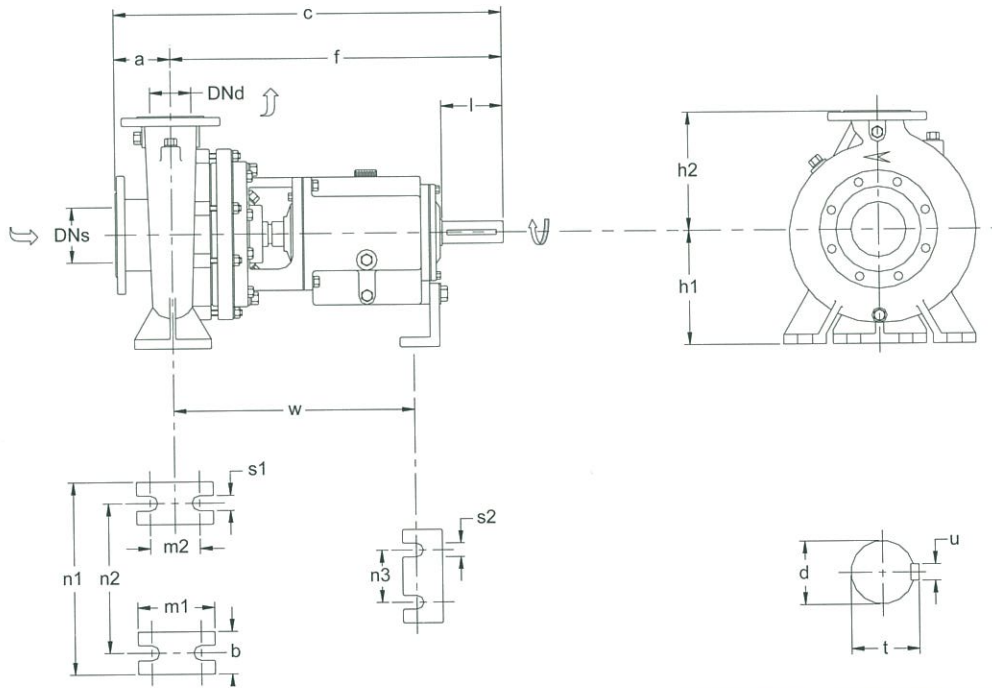
Double Back-to-Back



Double Tandem

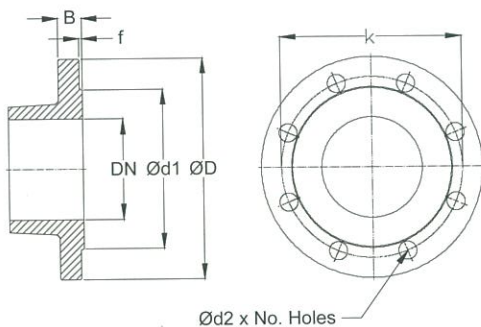


Gland Packing



PUMP MODEL	Flanges		Pump Dimensions					Foot Dimensions							Shaft End					
	DNd	DNs	a	f	c	h1	h2	b	m1	m2	n1	n2	n3	s1	s2	w	d	l	t	u
32-130	32	50	80	385	465	112	140	50	100	70	190	140	110	14	14	285	24	50	27	8
32-160						132	160				240	190								
32-200						160	180				320	250								
32-260						180	225				370	320								
40-130	40	65	80	385	465	112	140	50	100	70	210	160	110	14	14	285	24	50	27	8
40-160						132	160				240	190								
40-200						160	180				265	212								
40-260						180	225				320	250								
40-320	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	8
50-160						160	180				265	212								
50-200						180	225				320	250								
50-260						200	250				345	280								
50-320	225	280	370	320	250															
65-130	65	100	100	385	485	160	180	65	125	95	280	212	110	14	14	285	24	50	27	8
65-160						180	200				320	250								
65-200						200	225				360	280								
65-260						225	250				400	315								
65-320 <sup>1)</sup>	250	280	435	355																
80-160	80	125	125	500	625	180	225	65	125	95	320	250	110	14	14	370	32	80	35	10
80-200						225	280				345	280								
80-260						250	315				400	315								
80-320 <sup>1)</sup>						280	355				435	355								
80-400 <sup>1)</sup>	315	355	465	355																
100-160 <sup>2)</sup>	100	125	125	500	625	200	280	80	160	120	340	260	110	18	14	370	32	80	35	10
100-200						225	280				360	280								
100-260 <sup>1)</sup>						250	315				400	315								
100-320 <sup>1)</sup>						280	355				435	355								
100-400 <sup>1)</sup>	315	355	465	355																
125-200 <sup>2)</sup>	125	150	140	500	640	250	315	80	160	120	400	315	110	18	14	370	32	80	35	10
125-260 <sup>1)</sup>						280	355				435	355								
125-320 <sup>1)</sup>						315	400				465	355								
125-400 <sup>1)</sup>						355	400				495	355								
150-200 <sup>2)</sup>	150	200	160	500	660	280	375	100	200	150	500	400	110	23	14	370	32	80	35	10
150-260 <sup>1)</sup>						315	400				465	355								
150-320						355	400				495	355								
150-400						400	450				525	355								

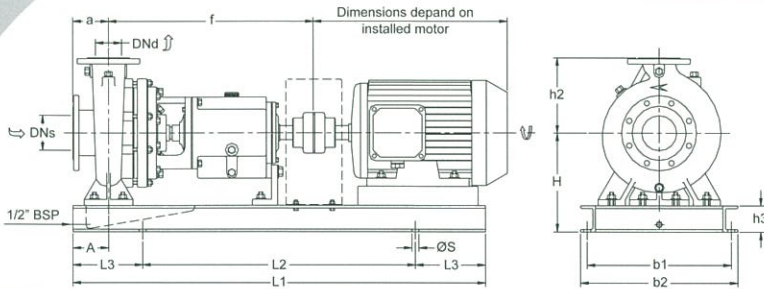
<sup>1)</sup> In these models the dimension "l" is 15mm shorter than the specified in ISO 2858. The dimension "f" is according to ISO 2858  
<sup>2)</sup> These models are additional sizes and not specified in ISO 2858



Dimensions in mm								
Nominal Dia.	Flange		Raised Face		Drilling*			Bolting
DN	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

# KEWPUMP<sup>®</sup> KS-SG2 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	

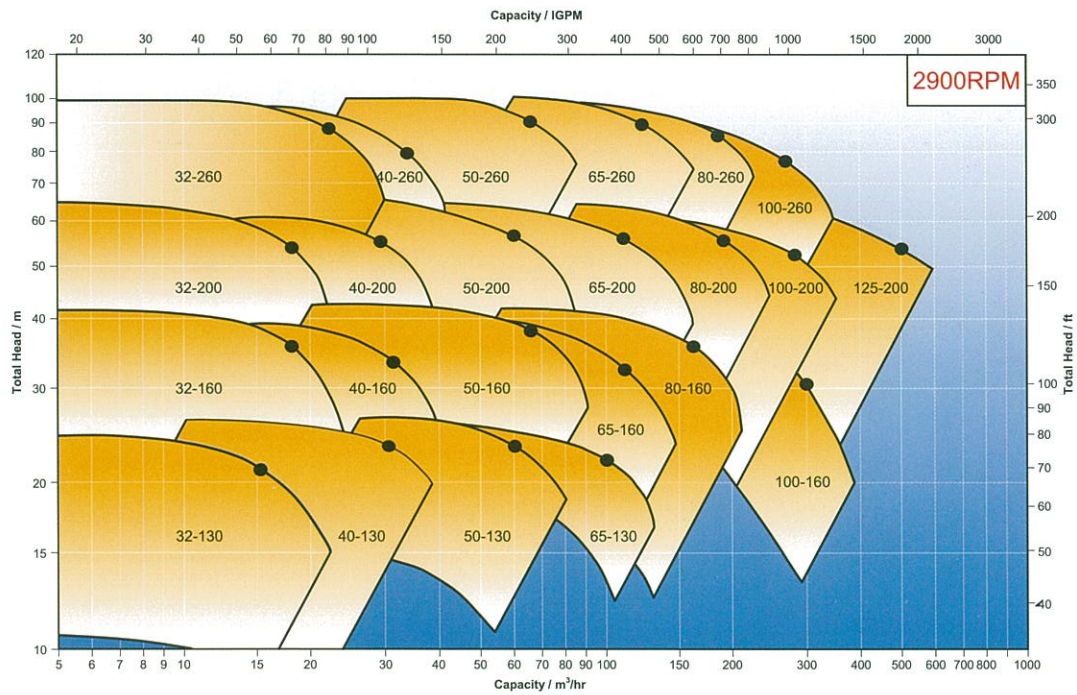
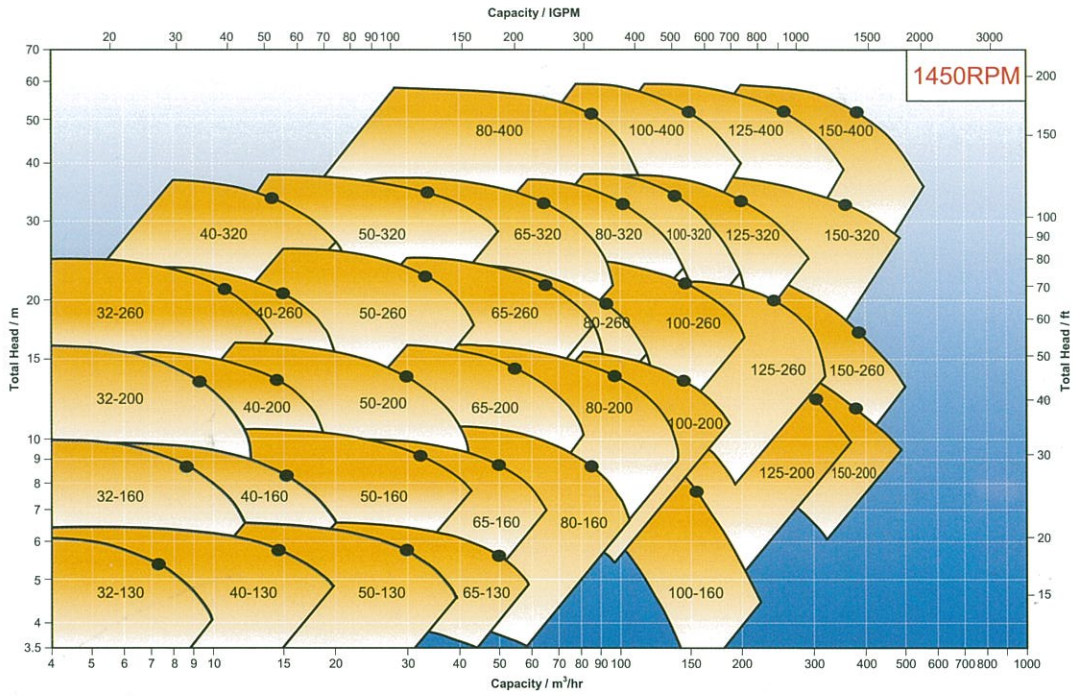
PUMP MODEL	Flanges		Set Dimensions				H and the Standardized Baseplate Number, in Terms of Motor Size (I.E.C.)																			
	DNd	DNs	a	f	A	h2	71M	80M	90S	90L	100L	112M	132S	132M	160M	160L	180M	180L	200L	225S	225M	250M	280S	280M		
32-130	32	50	80	385	60	140	212 3661.2																			
32-160						160	232 3661.2																			
32-200						180	260 3661.2 3661.3																			
32-260						100	500	75	225	280 3661.2 3661.3 3661.4																
									250	280 3661.4 3661.5 3661.6																
40-130						40	65	80	385	60	140	212 232 3661.2 3661.3														
40-160	160	232 3661.2 3661.3 3661.4																								
40-200	180	260 3661.3 3661.4																								
40-260	100	500	75	225	280 3661.4 3661.5 3661.6																					
				250	300 3661.5 3661.7																					
40-320	125	325 3661.5 3661.6 3661.7																								
50-130	50	80	100	385	60	160	232 3661.2 3661.3 3661.4																			
50-160						180	260 3661.3 3661.4																			
50-200						200	260 280 3661.3 3661.4 3661.5																			
50-260						125	500	75	225	280 325 3661.4 3661.5 3661.6 3661.7																
									250	325 350 375 3661.5 3661.6 3661.7 3661.8																
50-320						280	325 350 375 3661.5 3661.6 3661.7 3661.8																			
65-130	65	100	100	385	75	180	260 3661.4 3661.5 3661.6																			
65-160						200	260 280 3661.4 3661.5 3661.6																			
65-200						125	500	90	225	280 325 350 3661.4 3661.5 3661.6 3661.7 3661.8																
									250	300 300 325 350 375 430 3661.5 3661.6 3661.7 3661.8 3661.9																
65-320						125	530	90	280	325 3661.6 3661.7																
									355	405 3661.7 3661.8 3661.9																
80-160	80	125	125	500	75	225	280 3661.4 3661.5 3661.6 3661.7																			
80-200						250	280 3661.5 3661.6 3661.7 3661.8																			
80-260						280	325 350 375 430 3661.6 3661.7 3661.8 3661.9																			
80-320						140	530	90	315	350 375 3661.6 3661.7																
									355	405 3661.7 3661.8 3661.9																
80-400						355	405 3661.7 3661.8 3661.9																			
100-160	100	125	125	500	90	280	300 300 325 3661.5 3661.6 3661.7 3661.8 3661.9																			
100-200						280	300 325 350 375 430 3661.5 3661.6 3661.7 3661.8 3661.9																			
100-260						140	530	90	315	325 350 375 430 3661.6 3661.7 3661.8 3661.9																
									355	350 375 3661.6 3661.7																
100-400						140	530	110	355	405 3661.7 3661.8 3661.9																
									375	405 440 465 3661.7 3661.8 3661.9																
125-200	125	150	140	500	90	315	350 375 430 3661.6 3661.7 3661.8 3661.9																			
125-260						355	350 375 3661.6 3661.7																			
125-320						140	530	110	355	405 3661.7 3661.8 3661.9																
									400	440 465 3661.8 3661.9																
125-400						400	405 440 465 3661.7 3661.8 3661.9																			
150-200						150	200	160	500	110	375	405 3661.8 3661.9														
150-260	400	405 465 3661.8 3661.9																								
150-320	140	530	110	400	465 3661.9																					
				450	465 3661.9																					
150-400	450	465 3661.9																								

Baseplate selection based on TECO motor type AEEB and standard couplings

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

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.



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

