





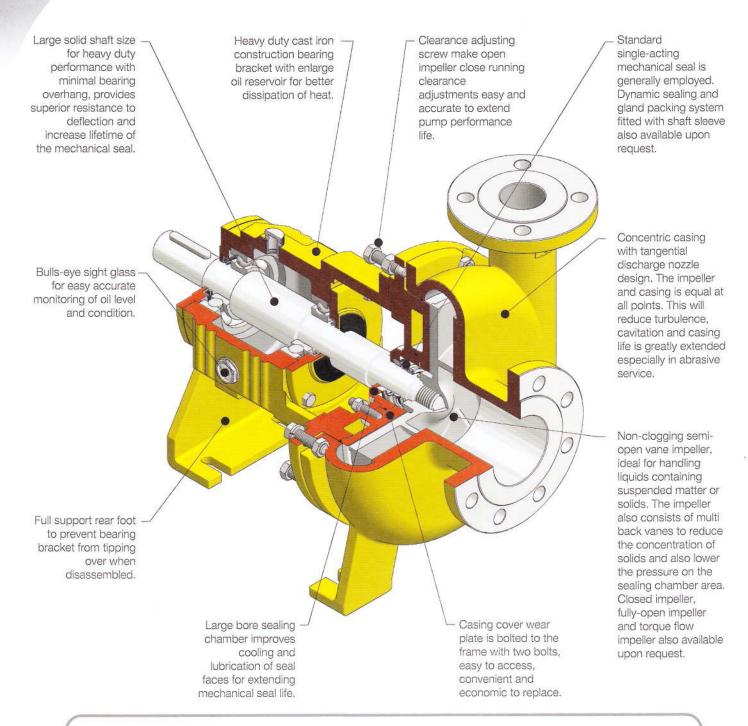






KS-SE3

BACK PULL-OUT END SUCTION
SOLID HANDLING PUMP



Dynamic Sealing On some tough pumping services like paper stock and slurries, mechanical seals require outside flush and constant, costly

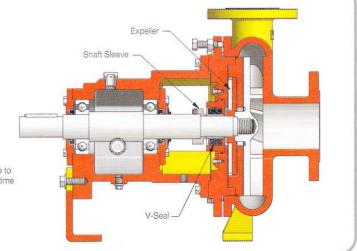
On some tough pumping services like paper stock and surries, mechanical seals require outside flush and constant, costly attention. Even then, seal failures are common, resulting in downtime. KS-SE3 offers a Dynamic Seal which, simply by fitting an expeller between sealing chamber and impeller, eliminates the need for a mechanical seal.

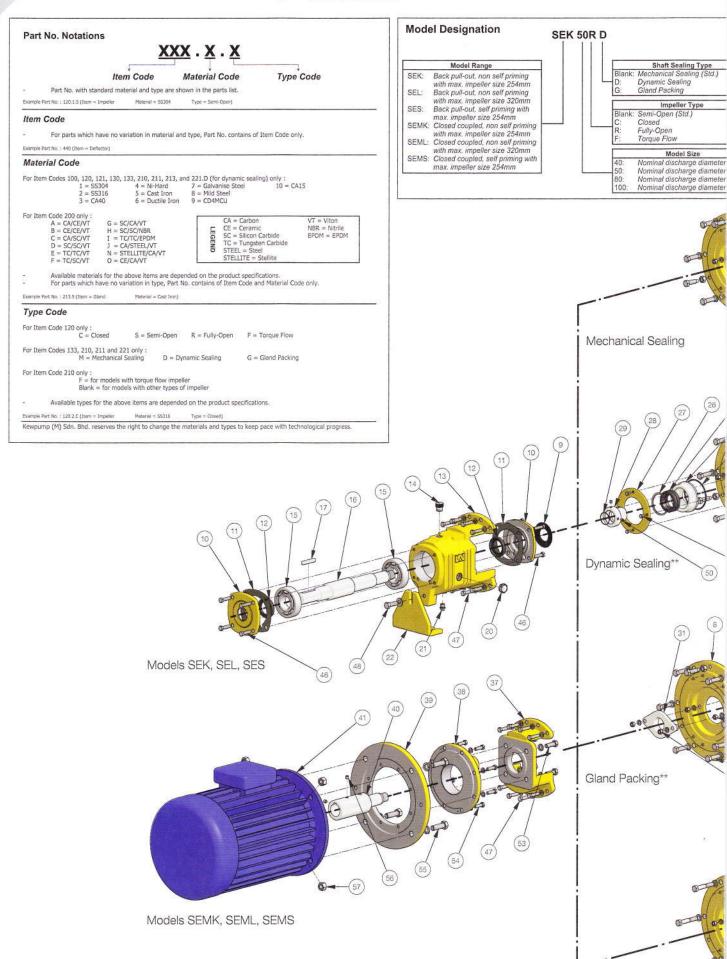
Advantages

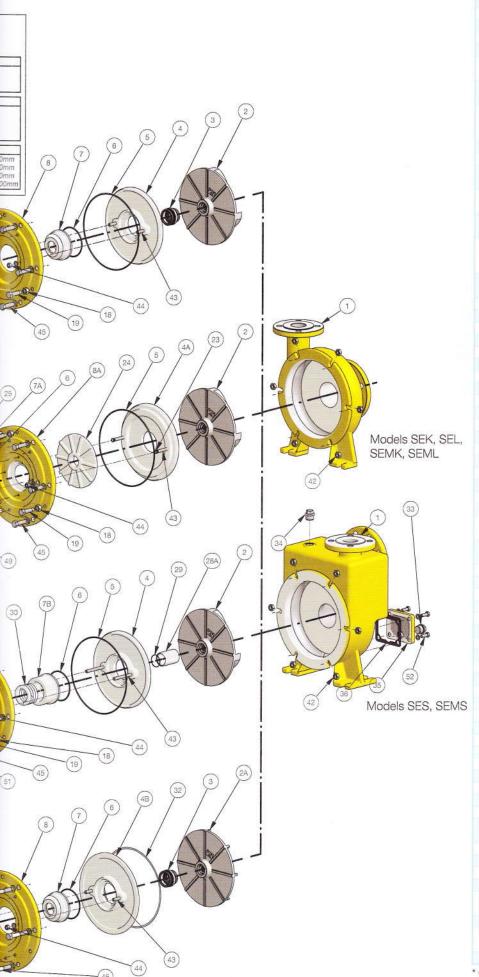
- External seal water not required
- Elimination of pump contamination and product dilution
- Reduces utility cost
- No need to treat seal water
- Eliminate problems associated with piping from a remote source
- Adjustable shaft sleeve design enables the shaft sleeve to be used up to five cycles longer thus saving significant maintenance cost and downtime

Working Principle

During start-up, expeller acts like an impeller, removing liquid and solids from the sealing chamber. When the pump is stationary, V-Seal or other type of secondary seal prevents pump from leaking.



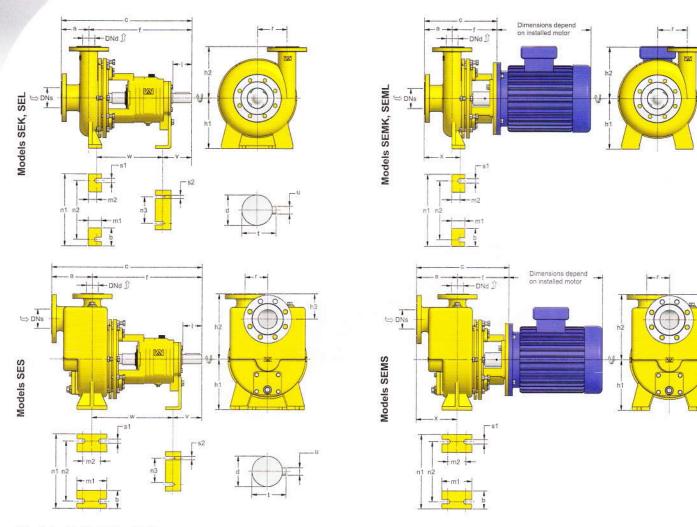




tem No.	Part No.	Description	Standard Materia
1	100	Casing	Stainless Steel
2	120.S	Semi-Open Impeller	Stainless Steel
2A	120.F	Torque Flow Impeller	Stainless Steel
3	200.A	Mechanical Seal	Carbon vs. Ceram
4	210.M/G	Casing Cover for Mechanical Sealing and Gland Packing	Stainless Steel
4A	210.D	Casing Cover for Dynamic Sealing	Stainless Steel
4B	210.FM/G	Casing Cover for Torque Flow Impeller with Mechanical Sealing and Gland Packing	Stainless Steel
5	420	Casing Cover "O" Ring	Synthetic Rubber
6	421	Sealing Chamber "O" Ring	Synthetic Rubber
7	211.M	Sealing Chamber for Mechanical Sealing	Stainless Steel
7A	211.D	Sealing Chamber for Dynamic Sealing	Stainless Steel
7B	211.G	Sealing Chamber for Gland Packing	Stainless Steel
8	221.M/G	Adaptor Extension Ring for Mechanical Sealing and Gland Packing	Cast Iron
8A	221.D	Adaptor Extension Ring for Dynamic Sealing	Stainless Steel
9	440	Deflector	Synthetic Rubber
10	320	Bearing Cover	Cast Iron
11	430	Bearing Cover Gasket	Oil Proof Paper
12	321	Oil Seal	Synthetic Rubber
13	301	Bearing Bracket	Cast Iron
14	330	Oil Cover	Aluminium Alloy
15	310	Bearing	Steel
16	130	Shaft	Stainless Steel
17	136	Shaft End Key	Stainless Steel
18	464	Jam Nut	Steel
19	451	Clearance Adjusting Screw	Steel
20	331	Oil Gauge	Plastic Threaded
21	400	Bearing Bracket Drain Plug	Galvanise Steel
22	410	Support Foot	Cast Iron
23	492	Casing Cover Stud "O" Ring	Synthetic Rubber
24	121	Expeller	Stainless Steel
25	202	V-Seal	Stainless Steel Synthetic Rubber
26	460	Cir Clip	Steel
27	235	Sealing Chamber Holding Bracket	Cast Iron
28	133.D	Shaft Sleeve for Dynamic Sealing	Stainless Steel
28A	133.G	Shaft Sleeve for Gland Packing	Stainless Steel
29	423	Shaft Sleeve "O" Ring	Synthetic Rubber
30	201	Packing	Cotton
31	213	Gland	Stainless Steel
32	431	Casing Cover Gasket	Asbestos Sheet
33	401	Casing Drain Plug	Stainless Steel
34	402	Venting Plug	Stainless Steel
35	217	Casing Drain Cover	Stainless Steel
36	439	Casing Drain Cover Gasket	Synthetic Rubber
37	220	Frame Adaptor	Cast Iron
38	233*	Motor Frame Adaptor	Cast Iron
39	225	Motor Adaptor Extension Ring	Cast Iron
		7	
40	132	Motor Extension Shaft	Stainless Steel
41	501	Flange-Mounted Motor	
42		Casing Nut	Steel
43	122	Casing Cover Stud	Steel
44		Casing Cover Nut	Steel
45		Casing Bolt	Steel
46	(**)	Bearing Cover Bolt	Steel
47	-	Adaptor Extension Ring Bolt	Steel
48		Support Foot Bolt Sealing Chamber Holding	Steel
	- Charles	Bracket Bolt	
50		Shaft Sleeve Set Screw	Steel
		Gland Nut	Steel
51		Casing Drain Cover Bolt	Steel
52		Motor Frame Adaptor Bolt	Steel
		Motor Adoptor Extension Dina	
52		Motor Adaptor Extension Ring Bolt	Steel
52 53	-		Steel Steel

Only available in models SEMK, SEML and SEMS with motor horsepower 15HP or 20HP
 Only available in models SEK, SEL and SES

KN KEWPUMP KS-SE3 GENERAL DIMENSIONS



Models SEK, SEL, SES

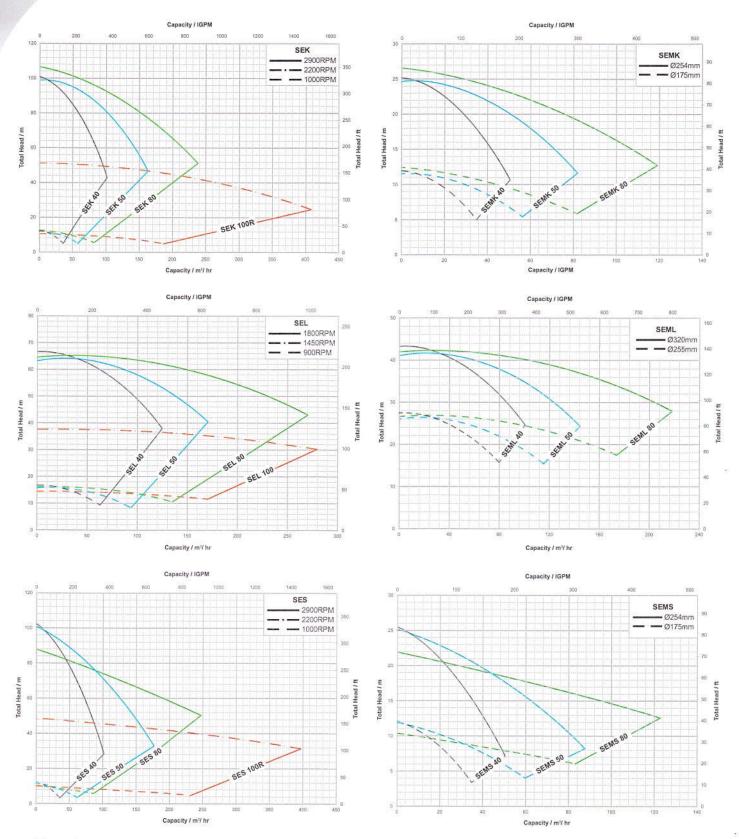
										Dim	ensi	ons	in m	m										
	PUMP	Flar	iges	es Pump Dimensions							Foot Dimensions										Shaft End			
	MODEL	DNd	DNs	а	f	C	h1	h2	h3	r	b	m1	m2	n1	n2	n3	s1	s2	V	w	d	- 1	t	u
SEK	SEK 40	40	65	85	430	515		203		135	135 123 130 148	55	35	300	245	110	18	14		265	38	80	42.8	
	SEK 50	50	80	115	430	545	210	215											130					9.5
	SEK 80	80	100	115	440	555		242																
	SEK 100R	100	125	125	445	570		262		148														
	SEL 40	40	65	90	430	520	250	254		165	3 1 75	55	35	380	310		5 18	14	140	255	38	80	42.8	9.5
	SEL 50	50	80	120	435	555		256		163						405								
SEL	SEL 80	80	100	115	440	555		260		161						185								
	SEL 100	100	150	155	465	620	265	280		167														
	SES 40	40	65	155	455	610		270	95	96				310	250	110	0 18	14	130	325			42.8	
S	SES 50	50	80	165	470	635	210	285	110	(5	7.0									340				
SES	SES 80	80	100	230	480	710		350	115		15	120	90							350	38	80		9.5
	SES 100R	100	125	235	490	725		375	130	100										360				

Models SEMK, SEML, SEMS

						D	imer	nsion	ıs in	mm									
	PUMP	Flanges Pump Dimensions									Foot Dimensions								
	MODEL	DNd	DNs	a	f	С	h1	h2	h3	r	b	m1	m2	n1	n2	s1	х		
¥	SEMK 40	40	65	85	190	275	210	203		135 123	75	55	35	300	245	18	120		
SEMK	SEMK 50	50	80	115	190	305		215									150		
S	SEMK 80	80	100	115	200	315		242		130							160		
	SEML 40	40	65	90	190	280		254		165	75	55	35	380	310	18	125		
SEML	SEML 50	50	80	120	195	315	250	256		163							160		
co	SEML 80	80	100	115	200	315		260		161							160		
co	SEMS 40	40	65	155	455	610		270	95	96		120	90	310	250	18	155		
SEMS	SEMS 50	50	80	165	470	635	210	285	110	90	75						165		
	SEMS 80	80	100	230	480	710		350	115	63							230		

Dimensions are based on semi-open / fully-open impeller
For closed impeller, dimensions **f**, **c**, and **w** plus (+) another 6mm
For torque flow impeller, dimensions **f**, **c**, and **w** plus (+) another 30mm
For models SEMK, SEML and SEMS with motor horsepower 15HP or 20HP, dimensions **f** and **c** plus (+) another 40mm
Flange dimensions according to ISO2084-PN16 (BS4504-1969 Table 16/11. DIN2501/PN16)

KN KEWPUMP KS-SE3 PUMP SELECTION CHART



All curves based on semi-open impeller, except SEK 100R and SES 100R (fully-open impeller). For SEK, SEL and SES, curves based on full size impeller for each model. For SEMK, SEML and SEMS, curves based on pump speed 1450rpm for each model. Curves for reference only. For final selection refer to individual pump curve.

