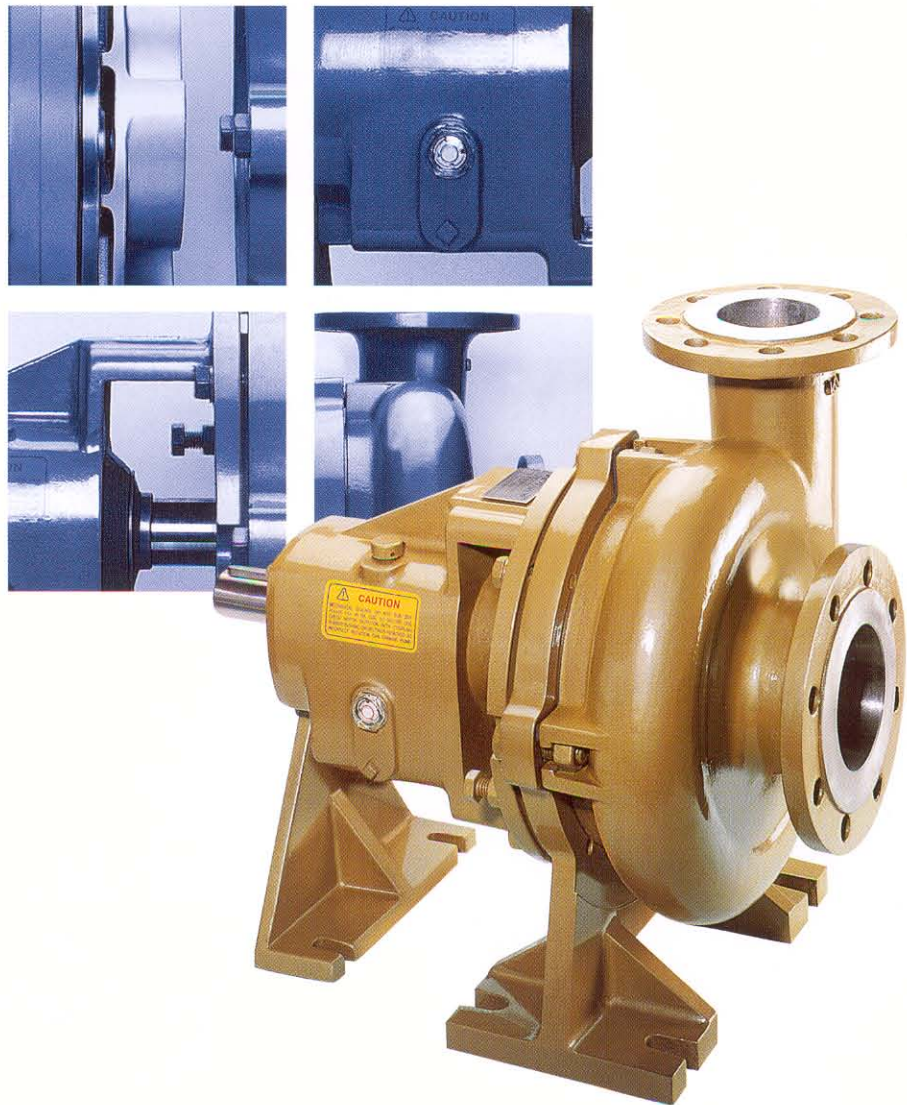


**KEWPUMP®**

*Keeps Pumping*



**KS-SE<sup>2</sup>**

**BACK PULL-OUT END SUCTION  
SOLID HANDLING PUMP**



QUALITY  
MANAGEMENT  
SYSTEM



**"thebrandlaureate"**  
The Grammy Awards for Branding



Concentric casing with tangential discharge nozzle design. The impeller and casing is equal at all points. This will reduce turbulence, cavitation and casing life is greatly extended especially in abrasive service.

Non-clogging semi-open vane impeller, ideal for handling liquids containing suspended matter or solids. The impeller also consists of multi back vanes to reduce the concentration of solids and also lower the pressure on the sealing chamber area. Closed impeller, fully-open impeller and torque flow impeller also available on request.

Stuffing box cover wear plate is bolted to the frame with two bolts, easy to access, convenient and economic to replace.

Large bore conical chamber improves cooling and lubrication of seal faces for extending mechanical seal life.

Clearance adjusting screws make open impeller close and running clearance adjustments easy and accurate to extend pump performance life.

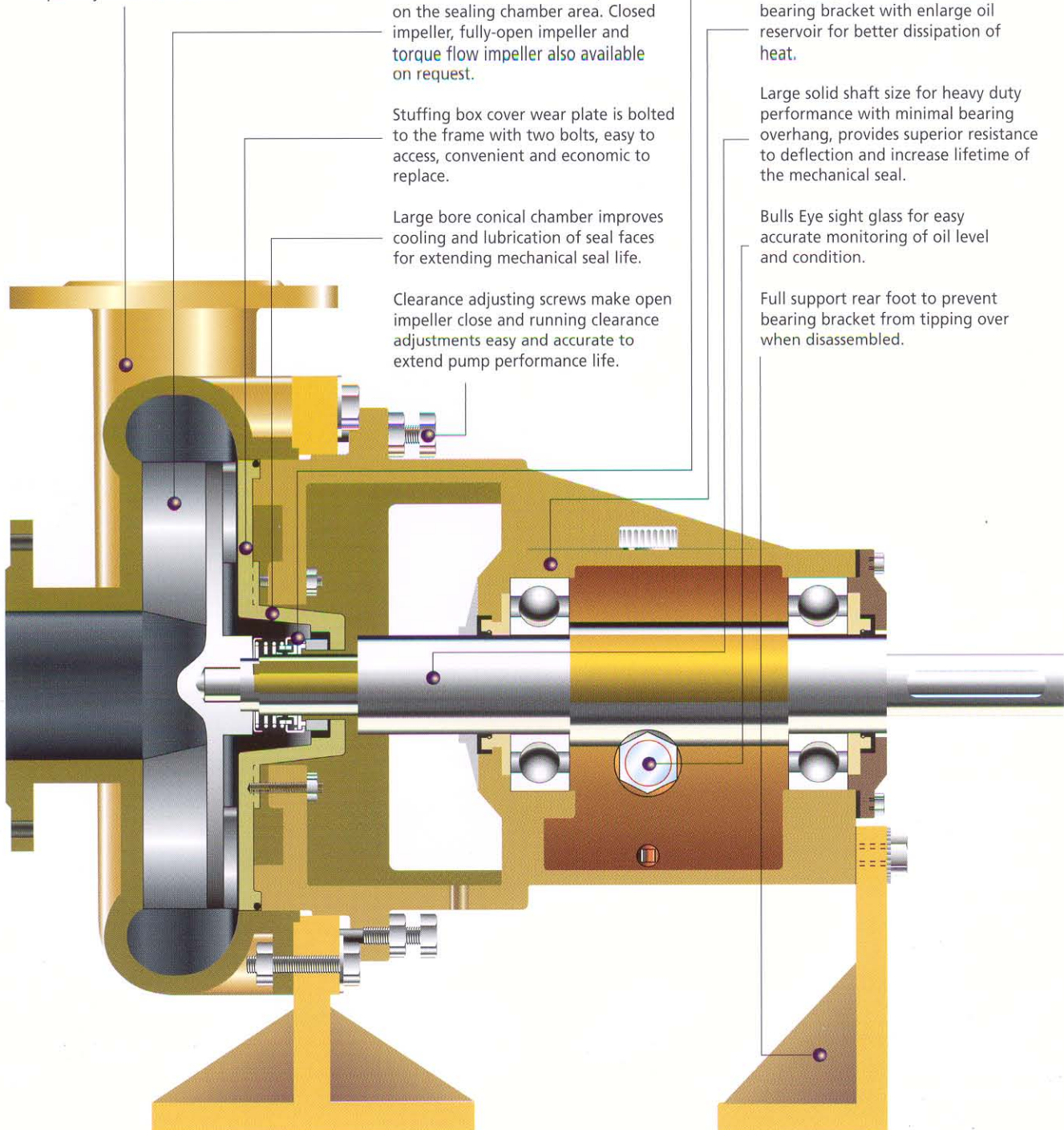
Standard single-acting mechanical seal is generally employed. 'V' seals and gland packing system fitted with shaft sleeve also available on request.

Heavy duty cast iron construction bearing bracket with enlarge oil reservoir for better dissipation of heat.

Large solid shaft size for heavy duty performance with minimal bearing overhang, provides superior resistance to deflection and increase lifetime of the mechanical seal.

Bulls Eye sight glass for easy accurate monitoring of oil level and condition.

Full support rear foot to prevent bearing bracket from tipping over when disassembled.





## MODEL DESIGNATION

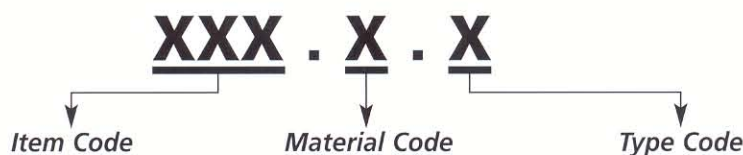
### SEN 50R

Model Range	
SEN:	Back pull-out, non self priming with max. impeller size 254mm
SEH:	Back pull-out, non self priming with max. impeller size 320mm
SEP:	Back pull-out, self priming with max. impeller size 254mm
SEM:	Closed coupled, non self priming with max. impeller size 254mm
SEMH:	Closed coupled, non self priming with max. impeller size 320mm
SEMP:	Closed coupled, self priming with max. impeller size 254mm

Impeller Type	
Blank:	Semi-Open (Std.)
C:	Closed
R:	Fully-Open
F:	Torque Flow

Model Size	
40:	Nominal discharge diameter 40mm
50:	Nominal discharge diameter 50mm
80:	Nominal discharge diameter 80mm
100:	Nominal discharge diameter 100mm

## PART NO. NOTATIONS



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

Example Part No. : 120.1.5 (Item = Impeller      Material = SS304      Type = Semi-Open)

### 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, 120, 130, 132, 133, 210, 211, 212, 213, 217, 401 and 402 only :

1 = SS304	4 = Ni-Hard	7 = Galvanise Steel	10 = CA15
2 = SS316	5 = Cast Iron	8 = Mild Steel	
3 = CA40	6 = Ductile Iron	9 = CD4MCU	

For Item Code 200 only :

A = CA/CE/VT	G = SC/CA/VT
B = CE/CE/VT	H = SC/SC/NBR
C = CA/SC/VT	I = TC/TC/EPDM
D = SC/SC/VT	J = CA/STEEL/VT
E = TC/TC/VT	N = STELLITE/CA/VT
F = TC/SC/VT	O = CE/CA/VT

<b>LEGEND</b>	CA = Carbon	VT = Viton
	CE = Ceramic	NBR = Nitrile
	SC = Silicon Carbide	EPDM = EPDM
	TC = Tungsten Carbide	
	STEEL = Steel	
	STELLITE = Stellite	

- 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 120 only :

C = Closed	S = Semi-Open	R = Fully-Open	F = Torque Flow
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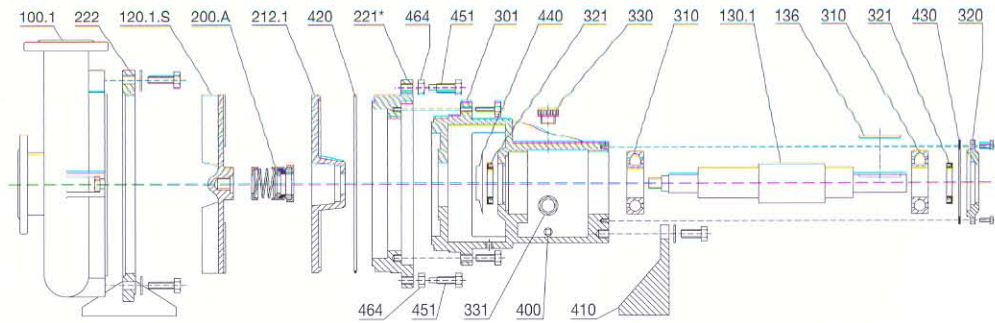
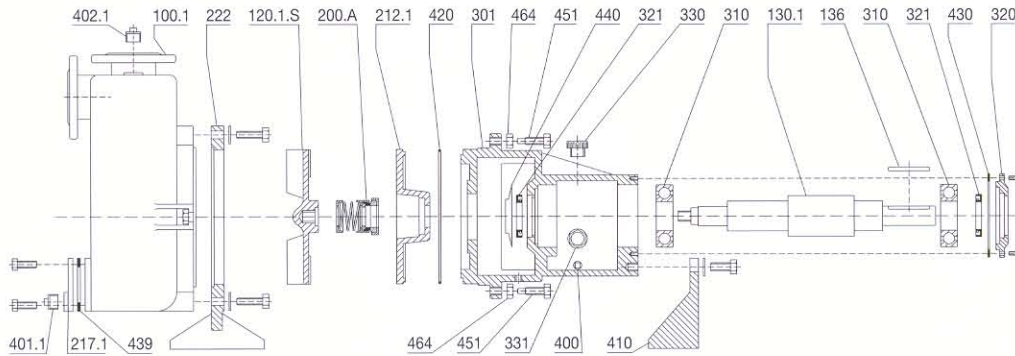
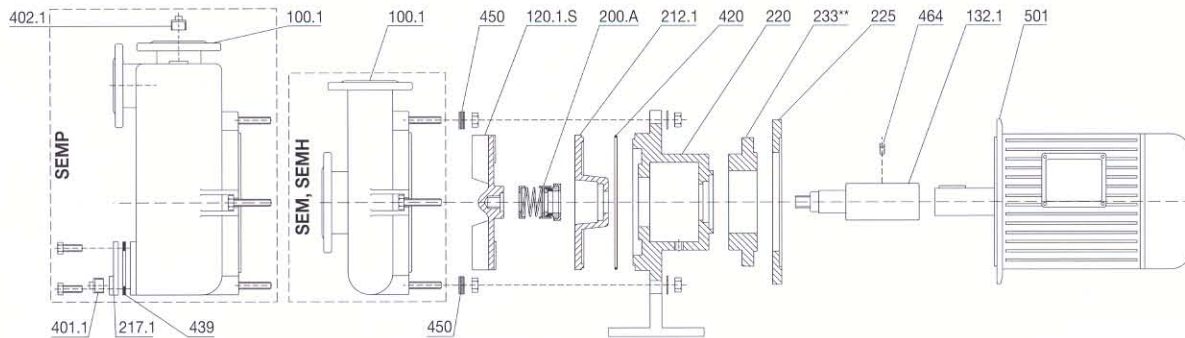
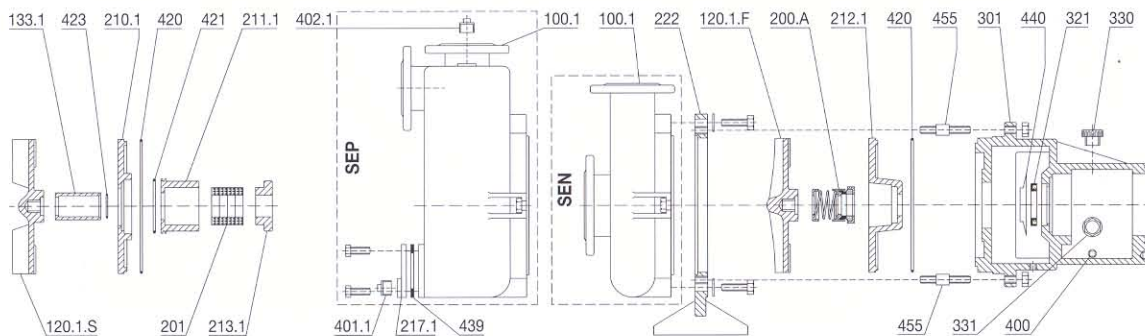
For Item Codes 210 and 212 only :

F = for models SEM, SEMH and SEMP with torque flow impeller  
Blank = for models SEM, SEMH and SEMP with other types of impeller;  
and other models with all types of impeller

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

Example Part No. : 120.2.C (Item = Impeller      Material = SS316      Type = Closed)

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

**Models SEN, SEH  
(Mechanical Sealing)**

**Models SEP  
(Mechanical Sealing)**

**Models SEM, SEMH, SEMP  
(Mechanical Sealing)**

**Models SEN, SEH, SEP,  
SEM, SEMH, SEMP  
(Different Arrangement)**

**Gland Packing**
**Torque Flow Impeller with Mechanical Sealing (SEM, SEMH and SEMP excluded)**

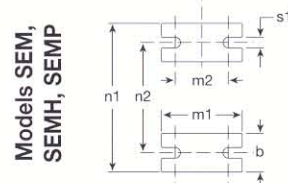
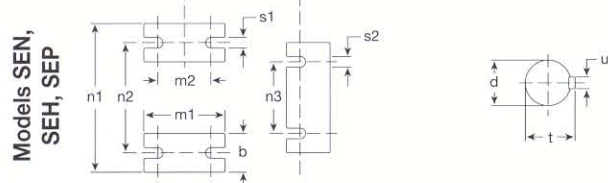
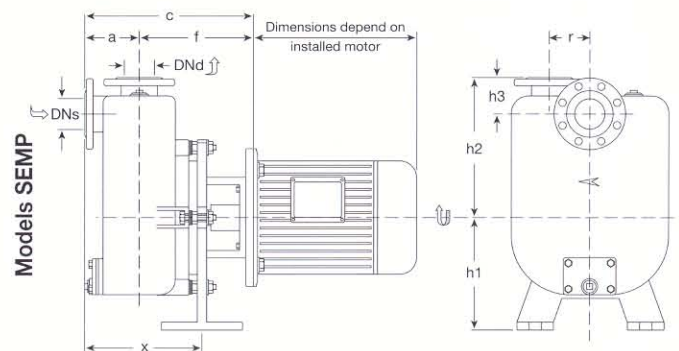
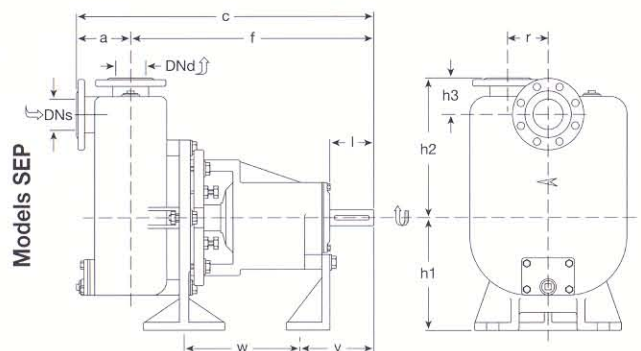
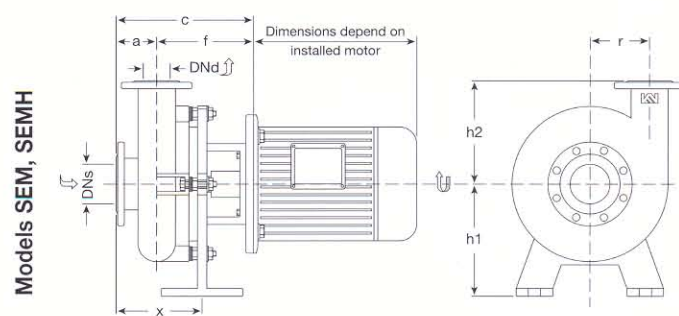
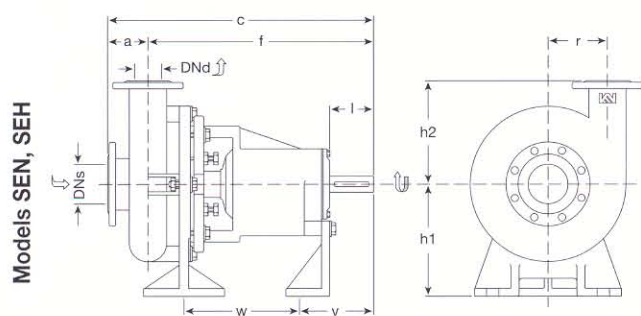
Part No.	Description	Standard Material
100.1	Casing	Stainless Steel 304
120.1.F	Torque Flow Impeller	Stainless Steel 304
120.1.S	Semi-Open Impeller	Stainless Steel 304
130.1	Shaft	Stainless Steel 304
132.1	Motor Extension Shaft	Stainless Steel 304
133.1	Shaft Sleeve	Stainless Steel 304
136	Shaft End Key	Stainless Steel 304
200.A	Mechanical Seal	Carbon vs. Ceramic
201	Packing	Asbestos
210.1	Casing Cover	Stainless Steel 304
211.1	Sealing Chamber	Stainless Steel 304
212.1	Stuffing Box Cover	Stainless Steel 304
213.1	Gland	Stainless Steel 304
217.1	Casing Drain Cover	Stainless Steel 304
220	Frame Adaptor	Cast Iron
221*	Adaptor Extension Ring	Cast Iron
222	Support Stand	Ductile Iron
225	Motor Adaptor Extension Ring	Cast Iron
233**	Motor Frame Adaptor	Cast Iron
301	Bearing Bracket	Cast Iron
310	Bearing	Steel

Part No.	Description	Standard Material
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
420	Stuffing Box Cover "O" Ring / Casing Cover "O" Ring	Synthetic Rubber
421	Sealing Chamber "O" Ring	Synthetic Rubber
423	Shaft Sleeve "O" Ring	Synthetic Rubber
430	Bearing Cover Gasket	Asbestos Sheet
439	Casing Drain Cover Gasket	Synthetic Rubber
440	Deflector	Synthetic Rubber
450	Shim Washer	Stainless Steel 304
451	Clearance Adjusting Screw	Steel
455	Casing Stud	Steel
464	Jam Nut	Steel
501	Flange-Mounted Motor	-

\* Only available in models SEH

\*\* Only available in models SEM, SEMH, SEMP with motor horsepower 15HP or 20HP





### Models SEN, SEH, SEP

Dimensions in mm																									
PUMP MODEL	Flanges		Pump Dimensions								Foot Dimensions										Shaft End				
	DNd	DNs	a	f	c	h1	h2	h3	r	b	m1	m2	n1	n2	n3	s1	s2	v	w	d	l	t	u		
SEN	SEN 40	40	65	85	430	515	250	203		135	90	180	150	310	245	185	18	14	140	230	38	80	42.8	9.5	
	SEN 50	50	80	115	430	545		215																	123
	SEN 80	80	100	115	440	555		242																	130
	SEN 100	100	125	125	445	570		262																	148
SEH	SEH 40	40	65	90	430	520	250	254		165	90	180	150	400	310	185	18	14	140	230	38	80	42.8	9.5	
	SEH 50	50	80	120	435	555		256																	163
	SEH 80	80	100	115	440	555		260																	161
SEP	SEP 40	40	40	90	455	545	250	253	75	110	90	180	150	310	245	185	18	14	140	230	38	80	42.8	9.5	
	SEP 50	50	50	105	465	570		272	85																95
	SEP 80	80	80	130	480	610		308	100																75

### Models SEM, SEMH, SEMP

Dimensions in mm																
PUMP MODEL	Flanges		Pump Dimensions							Foot Dimensions						
	DNd	DNs	a	f	c	h1	h2	h3	r	b	m1	m2	n1	n2	s1	x
SEM	SEM 40	40	65	85	190	275	250	203	135	90	180	150	310	245	18	155
	SEM 50	50	80	115	190	305		215	123							185
	SEM 80	80	100	115	200	315		242	130							195
SEMH	SEMH 40	40	65	90	190	280	250	254	165	90	180	150	310	245	18	160
	SEMH 50	50	80	120	195	315		256	163							195
	SEMH 80	80	100	115	200	315		260	161							195
SEMP	SEMP 40	40	40	90	215	305	250	253	75	90	180	150	310	245	18	185
	SEMP 50	50	50	105	225	330		272	85							210
	SEMP 80	80	80	130	240	370		308	100							250

Dimensions are based on semi-open / fully-open impeller

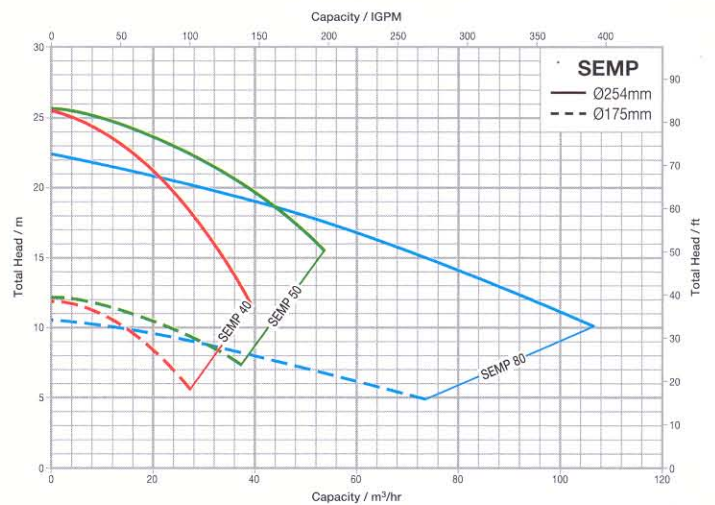
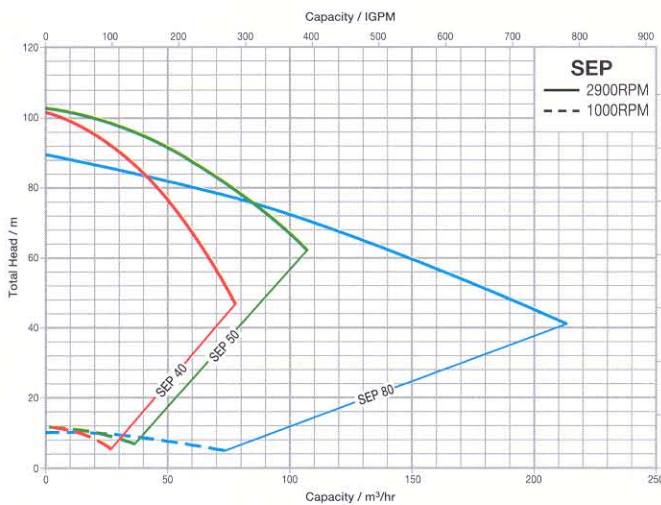
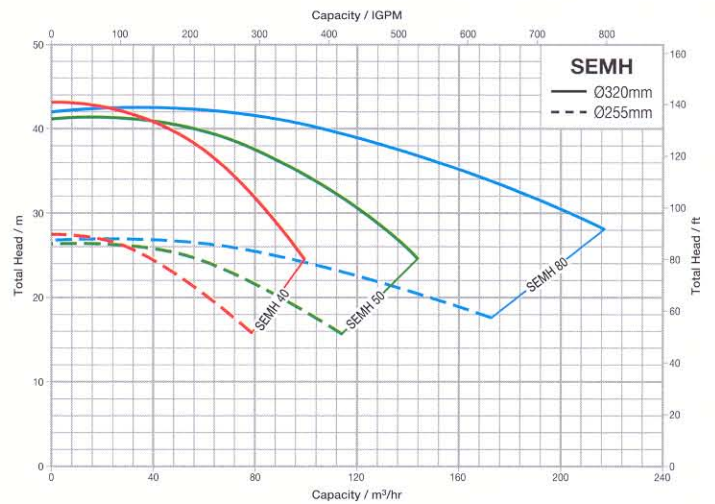
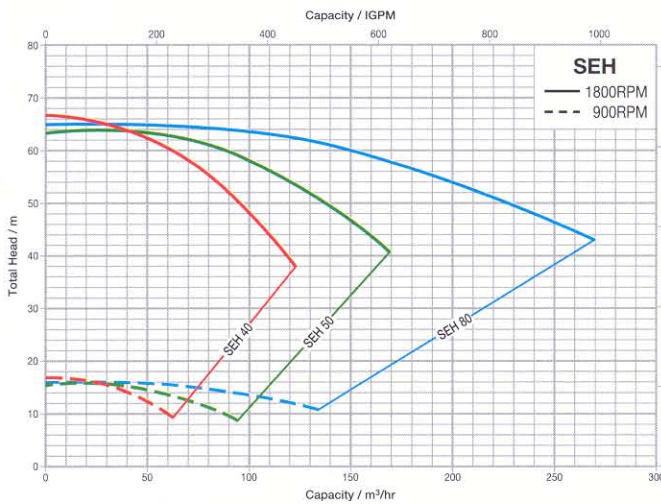
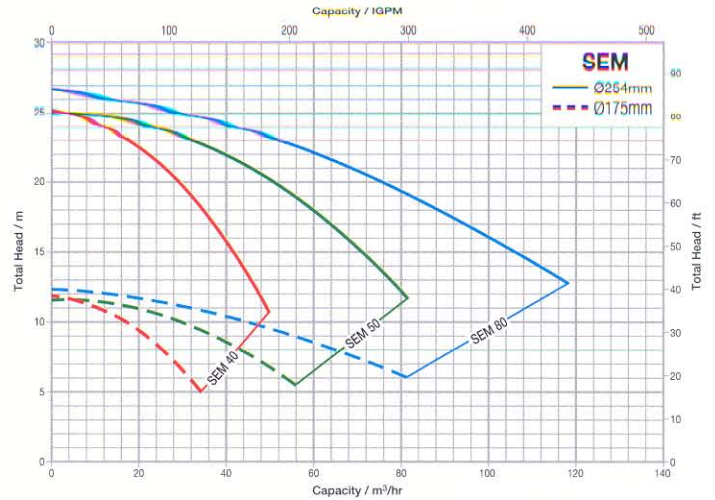
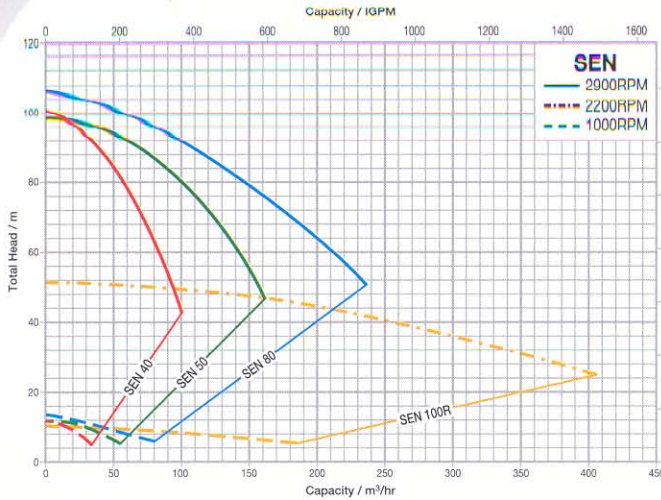
For closed impeller, dimensions **f**, **c**, **w** and **x** plus (+) another 6mm

For torque flow impeller, dimensions **f**, **c**, **w** and **x** plus (+) another 25mm

For models SEM, SEMH and SEMP 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)





All curves based on semi-open impeller, except SEN 100R (fully-open impeller).  
 For SEN, SEH and SEP, curves based on full size impeller for each model.  
 For SEM, SEMH and SEMP, curves based on pump speed 1450rpm for each model.  
 Curves for reference only. For final selection refer to individual pump curve.