

Bare Shaft End Suction - JES Series
Centrifugal Pumps DIN 24255

Close Couple End Suction - JES-M Series
Centrifugal Pumps DIN 24255



Design Features

The JES range of pumps complies fully to the international standard DIN 24255. This standard covers both performance and dimensions.

Back Pull-Out Facility

This pump includes the back pull-out design, and when a suitable spacer coupling is fitted to a direct coupled unit, the casing and motor can remain in position while all other pump parts can be removed for simple and quick maintenance.

Pump Casing

The volute casing is fitted with a replaceable wear ring and has a suction vane to give smooth flow into the double shrouded hydraulically balanced impeller. Only three shaft assemblies are required to cover the total range, and this gives many common interchangeable parts for pumps fitted to the same shaft. Standard pump is fitted with a packed stuffing box incorporating a lantern ring which includes internal flushing by the liquid being pumped, or can be converted to external flushing, and all of these pumps can be fitted with a mechanical seal. Pumps can be supplied as a bare shaft unit, or in many other arrangements, including complete with coupling, guard, baseplated and either electric motor or engine.

Maximum Speed

Maximum direct coupled speed for pumps varies between 3600 RPM and 1800 RPM, depending upon pump size, and method of drive.

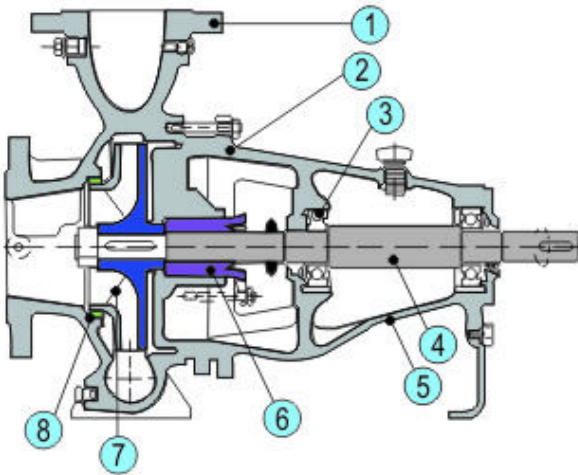
Operating Pressure

Maximum operating pressure 1600kPa
Maximum test pressure up to 2100kPa
(maximum pressures will vary depending on particular pump model - higher ratings available on application)

Maximum Temperature

With standard packed gland - minus 10°C to 105°C
Maximum with cooled stuffing box - 160°C
With mechanical seal - maximum depends upon seal used.
(for liquid temperatures over 105°C and up to 160°C a gland cooling chamber can be formed by the addition of cover plate)





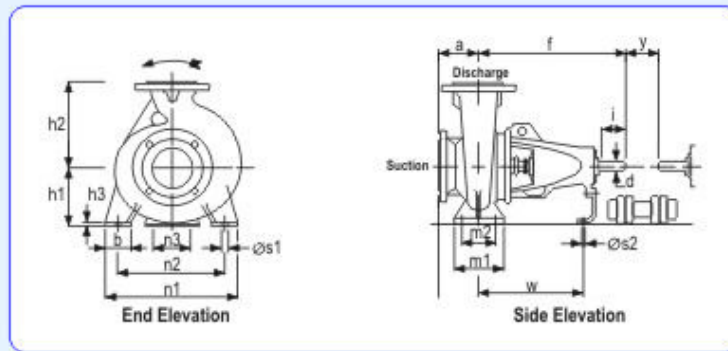
NO.	Description
1	Cast iron casing
2	Back pull-out facility
3	Grease lubricated bearings / oil lubricated
4	Three shaft modules
5	Cast iron bearing housing
6	Mechanical seals / Gland packing
7	Impeller
8	Wear rings

Material Options

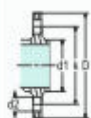
	Code 1	Code 2	Code 3
Casing	Cast Iron	Cast Iron	Cast Iron
Impeller	Cast Iron	Bronze	Stainless Steel
Shaft	Stainless Steel	Stainless Steel	Stainless Steel
Sleeve	Stainless Steel	Stainless Steel	Stainless Steel
Wear Ring	Cast Iron	Cast Iron	Cast Iron

Applications

- Circulation of liquids
- Condenser water
- Heating Water
- Irrigation
- HVAC



Pump Model	Shaft Module	Suct.	Disch.	Pump								Foot								Spacer y	Shaft End d	Coupling Key i	Net Weight [kg]
				a	f	h1	h2	b	m1	m2	n1	n2	n3	h3	s1	s2	w	p					
32-13	25	50	32	80	360	112	140	50	100	70	190	140	100	14	14	14	267	80	80	24	50	8 x 7	27.5
32-16	25	50	32	80	360	132	160	50	100	70	240	190	100	14	14	14	267	80	80	24	50	8 x 7	35.0
32-20	25	50	32	80	360	160	180	50	100	70	240	190	110	14	14	14	267	80	80	24	50	8 x 7	41.0
32-26	25	50	32	100	360	180	225	65	125	95	320	250	110	14	14	14	267	100	100	24	50	8 x 7	59.0
40-13	25	65	40	80	360	112	140	50	100	70	210	160	100	14	14	14	267	80	80	24	50	8 x 7	30.0
40-16	25	65	40	80	360	132	160	50	100	70	240	190	100	14	14	14	267	80	80	24	50	8 x 7	36.0
40-20	25	65	40	100	360	160	180	50	100	70	265	212	110	14	14	14	267	100	100	24	50	8 x 7	44.0
40-26	25	65	40	100	360	180	225	65	125	95	320	250	110	14	14	14	267	100	100	24	50	8 x 7	61.0
40-32	35	65	40	125	470	200	250	65	125	95	345	280	110	14	14	14	342	125	120	32	80	10 x 8	96.0
40-32H	35	65	40	125	470	200	250	65	125	95	345	280	110	14	14	14	342	125	120	32	80	10 x 8	96.0
50-13	25	65	50	100	360	132	160	50	100	70	240	190	100	14	14	14	267	100	80	24	50	8 x 7	34.0
50-16	25	65	50	100	360	160	180	50	100	70	265	212	110	14	14	14	267	100	100	24	50	8 x 7	38.0
50-20	25	65	50	100	360	160	200	50	100	70	265	212	110	14	14	14	267	100	100	24	50	8 x 7	48.0
50-26	25	65	50	100	360	180	225	65	125	95	320	250	110	14	14	14	267	100	100	24	50	8 x 7	63.0
50-32	35	65	50	125	470	225	280	65	125	95	345	280	110	16	14	14	342	125	120	32	80	10 x 8	101.0
50-32H	35	65	50	125	470	225	280	65	125	95	345	280	110	16	16	14	342	125	120	32	80	10 x 8	101.0
65-13	25	80	65	100	360	160	180	65	125	95	280	212	110	14	14	14	267	100	100	24	50	8 x 7	39.0
65-16	25	80	65	100	360	160	200	65	125	95	280	212	110	14	14	14	267	100	100	24	50	8 x 7	43.0
65-20	25	80	65	100	360	180	225	65	125	95	320	250	110	14	14	14	267	100	100	24	50	8 x 7	52.0
65-20H	35H	80	65	100	454	180	225	65	125	95	320	250	110	14	14	14	328	100	100	32	80	10 x 8	81.0
65-26	35	80	65	100	470	200	250	80	160	120	360	280	110	16	18	14	342	100	120	32	80	10 x 8	81.0
65-32	35	80	65	125	470	225	280	80	160	120	400	315	110	16	18	14	342	125	120	32	80	10 x 8	110.0
65-32H	35	80	65	125	470	225	280	80	160	120	400	315	110	16	18	14	342	125	140	32	80	10 x 8	110.0
80-16	25	100	80	125	360	180	225	65	125	95	320	250	110	14	14	14	267	125	100	24	50	8 x 7	51.0
80-20	35	100	80	125	470	180	250	65	125	95	345	280	110	14	14	14	342	125	120	32	80	10 x 8	70.0
80-26	35	100	80	125	470	200	280	80	160	120	400	315	110	16	18	14	342	125	120	32	80	10 x 8	91.0
80-32	35	100	80	125	470	250	315	80	160	120	400	315	110	16	18	14	342	125	120	32	80	10 x 8	120.0
80-32H	35	100	80	125	470	250	315	80	160	120	440	315	110	18	18	14	342	125	140	32	80	10 x 8	120.0
80-40	45	100	80	125	532	280	355	85	160	120	440	340	110	16	18	14	368	125	140	42	110	12 x 8	161.0
100-16*	35	125	100	125	470	200	280	80	160	120	340	260	110	16	18	14	342	125	120	32	80	10 x 8	81.0
100-20	35	125	100	125	470	200	280	80	160	120	360	280	110	16	18	14	342	125	120	32	80	10 x 8	85.0
100-26	35	125	100	140	470	225	280	80	160	120	400	315	110	16	18	14	342	140	120	32	80	10 x 8	106.0
100-32	35	125	100	140	470	250	315	80	160	120	400	315	110	16	18	14	342	140	120	32	80	10 x 8	134.0
100-40	45	125	100	140	530	280	355	100	200	150	500	400	110	18	23	14	370	140	140	42	110	12 x 8	174.0
125-20*	35	150	125	140	470	250	315	80	160	120	400	315	110	16	18	14	342	140	120	32	80	10 x 8	111.0
125-26	35	150	125	140	470	250	355	80	160	120	400	315	110	16	18	14	342	140	120	32	80	10 x 8	115.0
125-32	45	150	125	140	530	280	355	100	200	150	500	400	110	18	23	14	370	140	120	42	110	12 x 8	163.0
125-40	45	150	125	140	530	315	400	100	200	150	500	400	110	18	23	14	370	140	120	42	110	12 x 8	181.0
125-50	60	150	125	180	680	375	500	100	200	150	550	450	140	24	24	14	500	180	140	55	110	16 x 10	225.0
150-20*	35H	200	150	160	495	280	400	100	200	150	550	450	110	20	23	14	367	160	140	32	80	10 x 8	140.0
150-26*	45	200	150	160	530	250	355	100	200	150	450	350	110	18	23	14	370	160	140	42	110	12 x 8	164.0
150-32	45	200	150	160	530	280	400	100	200	150	550	450	110	18	23	14	370	160	140	42	110	12 x 8	170.0
150-40	45	200	150	160	530	315	450	100	200	150	550	450	110	18	23	14	370	160	140	42	110	12 x 8	209.0
150-50	60	200	150	180	670	375	500	100	200	150	550	450	140	24	24	15	500	180	140	55	110	16 x 10	320.0
200-26	45	250	200	180	546	280	400	100	200	150	550	450	110	25	26	15	389	180	180	42	110	12 x 8	205.0
200-32	55	250	200	200	670	355	450	100	200	150	550	450	110	20	24	15	500	200	180	48	110	14 x 9	320.0
200-40	55	250	200	200	670	355	500	100	200	150	550	450	110	20	24	15	500	200	180	48	110	14 x 9	350.0
200-50	75	250	200	240	783	425	545	160	200	240	720	600	140	30	27	23	534	240	180	70	140	20 x 10	450.0
250-32	55	300	250	200	670	355	525	100	250	175	600	500	110	24	23	14	511	200	180	48	110	14 x 9	400.0
250-40	60	300	250	250	670	400	500	120	300	250	710	600	110	25	24	14	511	250	180	55	110	16 x 10	480.0
250-50	75	300	250	240	783	425	545	160	300	240	720	600	140	30	27	23	534	240	180	70	140	20 x 10	500.0
300-40	75	350	300	280	783	500	600	150	300	200	800	660	140	40	27	23	550	280	180	70	140	20 x 10	548.0



Branch Size	32	40	50	65	80	100	125	150	200	250	300	350
k	100	110	125	145	160	180	210	240	295	355	410	470
n-d2	17.5x4	17.5x4	17.5x4	17.5x4	17.5x8	17.5x8	17.5x8	22x8	22x12	25x12	25x12	25x16
D	140	150	165	185	200	220	250	285	340	405	460	520

NOTE :-

* Flange dimensions and drilling in accordance with ISO 2084 PN16 (DN2533 PN16, DN4504 PN16)
 * Holes are equally spaced straddling pump centreline.
 * All dimensions shown are approximate and subject to change without notice.

Design Features

The JES-M Series are close coupled versions of the widely recognized JES-M range which is designed and manufactured to the International Standard DIN 24255.

Operating Temperatures

With standard Mechanical Seal - minus 20°C to 100°C. Mechanical Seals are available for applications outside these limits.

Operating Pressures

Maximum operating pressure 1600kPa
Maximum test pressure up to 2100kPa
(maximum pressures will vary depending on particular pump model - higher ratings available on application)

Interchangeability

Many of the components are interchangeable resulting in a reduction in spares requirements, and an initial cost saving.

Motor Options

The design of the range means that readily available standard electric motors are used. Alternatively, a motor to suit your particular specifications can be fitted where special protection classes and enclosures are required, or to suit a certain power supply (i.e. weatherproof, flameproof, 60Hz)

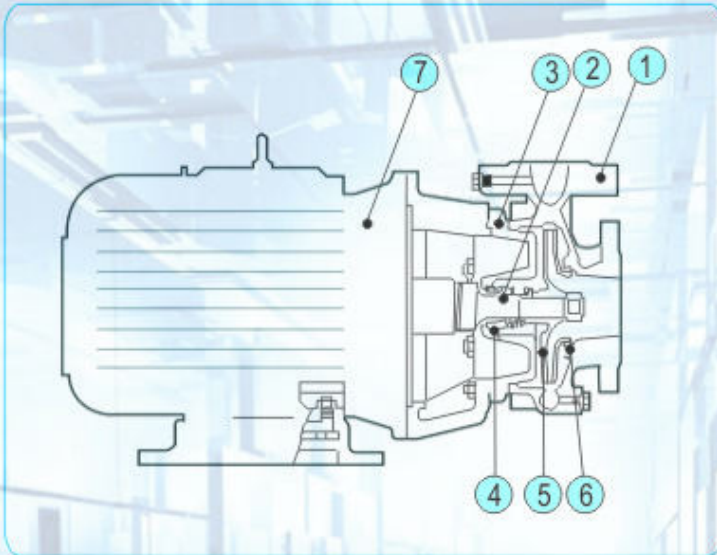
Back Pull-out Facility

All pumps incorporate the "Back Pull-out" facility allowing the removal of the complete rotating element without disturbing the pipework. This feature enables quick and simple maintenance to take place.

Maximum Speed

Either 50Hz (1450 rpm / 2900 rpm) or 60Hz (1750 rpm / 3500 rpm) speed motors can be supplied with impellers reduced to comply with the higher speeds.





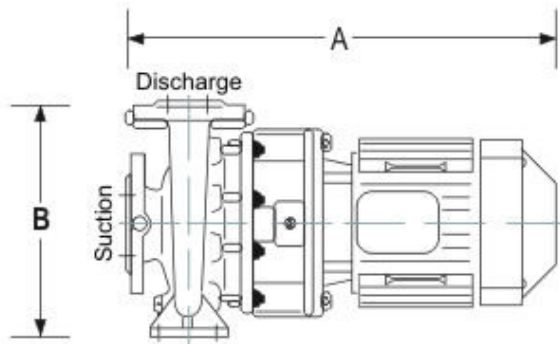
NO.	Description
1	Cast iron casing
2	Stainless steel shaft sleeve
3	Back pull-out facility
4	Mechanical seal
5	Impeller
6	Wear ring
7	Standard motor

Material Options

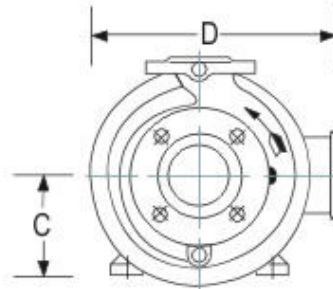
	Code 1	Code 2	Code 3
Casing	Cast Iron	Cast Iron	Cast Iron
Impeller	Cast Iron	Bronze	Stainless Steel
Shaft	Stainless Steel	Stainless Steel	Stainless Steel
Sleeve	Stainless Steel	Stainless Steel	Stainless Steel
Wear Ring	Cast Iron	Cast Iron	Cast Iron

Applications

- Cooling Water
- Plumbing
- Pressure Boosting
- De-watering
- Fire Protection



Side Elevation



End Elevation

Dimension "D" shows terminal box on right hand side. This could vary depending on motor brand and size, therefore is for guide only.

Pump Model	Motor (KW)	Motor Speed	Impeller (Dia.)	Length A	Height B	C/line C	Width D
32-13	0.55	1450	139	462	252	112	230
	2.20	2900	139	510	252	112	253
40-13	0.75	1450	139	462	252	112	235
	2.20	2900	110	510	252	112	258
	4.00	2900	139	560	252	112	310
50-13	0.55	1450	125	482	292	132	230
	0.75	1450	139	496	292	132	235
	4.00	2900	125	580	292	132	310
	5.50	2900	139	650	292	132	368
65-13	1.10	1450	139	505	292	132	263
	5.50	2900	120	580	292	132	310
	7.50	2900	135	650	292	132	368
32-16	0.55	1450	174	462	292	132	245
	2.20	2900	150	510	292	132	268
	4.00	2900	174	630	292	132	368
40-16	1.10	1450	174	485	292	132	278
	4.00	2900	162	560	292	132	310
	5.50	2900	174	630	292	132	368
50-16	1.50	1450	174	562	340	160	305
	7.50	2900	160	650	340	160	368
	11.00	2900	174	796	340	160	431
65-16	2.20	1450	174	562	360	160	308
	11.00	2900	155	796	360	160	431
	15.00	2900	174	842	360	160	431
80-16	2.20	1450	162	587	405	180	315
	3.00	1450	174	605	405	180	320
	15.00	2900	157	821	405	180	431
	22.00	2900	174	887	405	180	458
32-20	1.10	1450	214	485	340	160	291
	4.00	2900	195	560	340	160	310
	7.50	2900	214	630	340	160	368
40-20	1.50	1450	214	530	340	160	291
	5.50	2900	175	650	340	160	368
	11.00	2900	214	796	340	160	431
50-20	2.20	1450	214	562	360	160	320
	11.00	2900	192	796	360	160	431
	18.50	2900	214	842	360	160	431
65-20	2.20	1450	185	562	405	180	320
	4.00	1450	214	650	405	180	378
	15.00	2900	175	792	405	180	431
	22.00	2900	202	862	405	180	460

Pump Model	Motor (KW)	Motor Speed	Impeller (Dia.)	Length A	Height B	C/line C	Width D
80-20	4.00	1450	200	620	430	180	350
	7.50	1450	214	700	430	180	382
	15.00	2900	165	792	430	180	475
	22.00	2900	182	901	430	180	515
100-20	4.00	1450	190	619	480	200	384
	7.50	1450	214	700	480	200	495
	22.00	2900	172	901	480	200	570
32-26	2.20	1450	264	561	405	180	282
	15.00	2900	264	630	405	180	378
40-26	3.00	1450	264	561	405	180	270
	18.50	2900	264	861	405	180	385
50-26	2.20	1450	215	561	405	180	330
	4.00	1450	264	579	405	180	374
	22.00	2900	230	861	405	180	480
65-26	4.00	1450	215	594	450	200	367
	7.50	1450	264	675	450	200	410
80-26	5.50	1450	235	700	480	200	380
	11.00	1450	264	870	480	200	510
100-26	7.50	1450	220	715	505	225	425
	15.00	1450	264	885	505	225	595
125-26	15.00	1450	250	885	605	250	530
	18.50	1450	264	954	605	250	660
40-32	3.00	1450	290	590	450	200	295
	5.50	1450	329	700	450	200	360
50-32	4.00	1450	285	605	505	225	360
	7.50	1450	329	700	505	225	392
65-32	7.50	1450	295	700	505	225	400
	11.00	1450	329	870	505	225	445
80-32	11.00	1450	310	870	565	250	455
	18.50	1450	329	901	565	250	570
100-32	15.00	1450	292	885	565	250	470
	22.00	1450	329	954	565	250	630

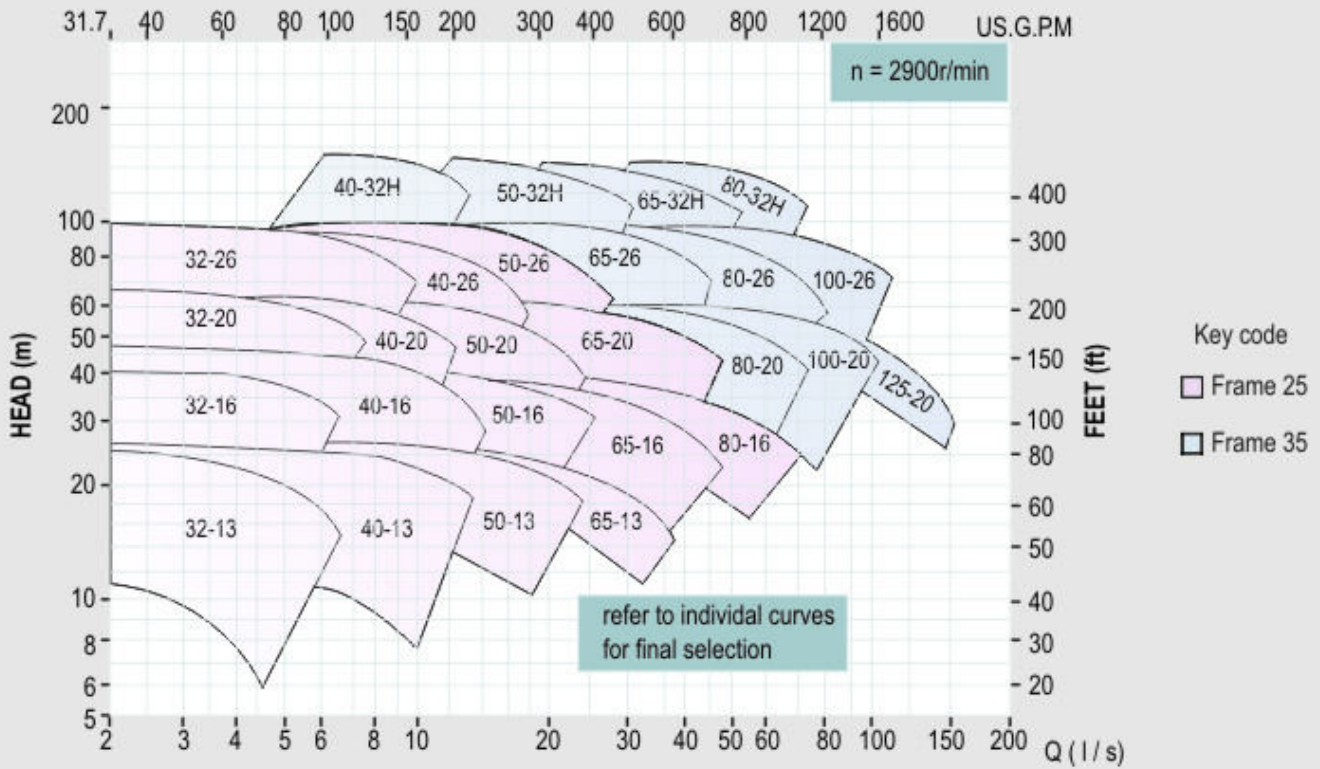
NOTE : * Flanges are to DIN 2533 PN 16. All dimensions shown are approximate and subject to change without notice.

* Others model is available upon request.

* Others colour is available upon request.

* All specifications subject to change without notice.

2900 RPM Selection Chart



1450 RPM Selection Chart

