



O2PA Series

(DIN 24255)

Back Pull-out End Suction Centrifugal Pump





**EASYFLOW
BACK PULL-OUT
FEATURE**

This design feature allows the complete rotating element to be removed for servicing without disconnecting pipework. If a spacer coupling is fitted then motor does not have to be moved. On re-assembly of pump coupling re-alignment problems are completely eliminated.

APPLICATIONS

- Air Conditioning
- Heating and Ventilating
- Refrigeration
- Fire Protection
- Plumbing
- Food and Drink Manufacture
- Circulating
- Water Pressure Boosting
- Transfer
- Water Treatment and supply
- Irrigation
- Drainage
- Factory Pumping
- Process Industry
- Petroleum Products
- General Industry

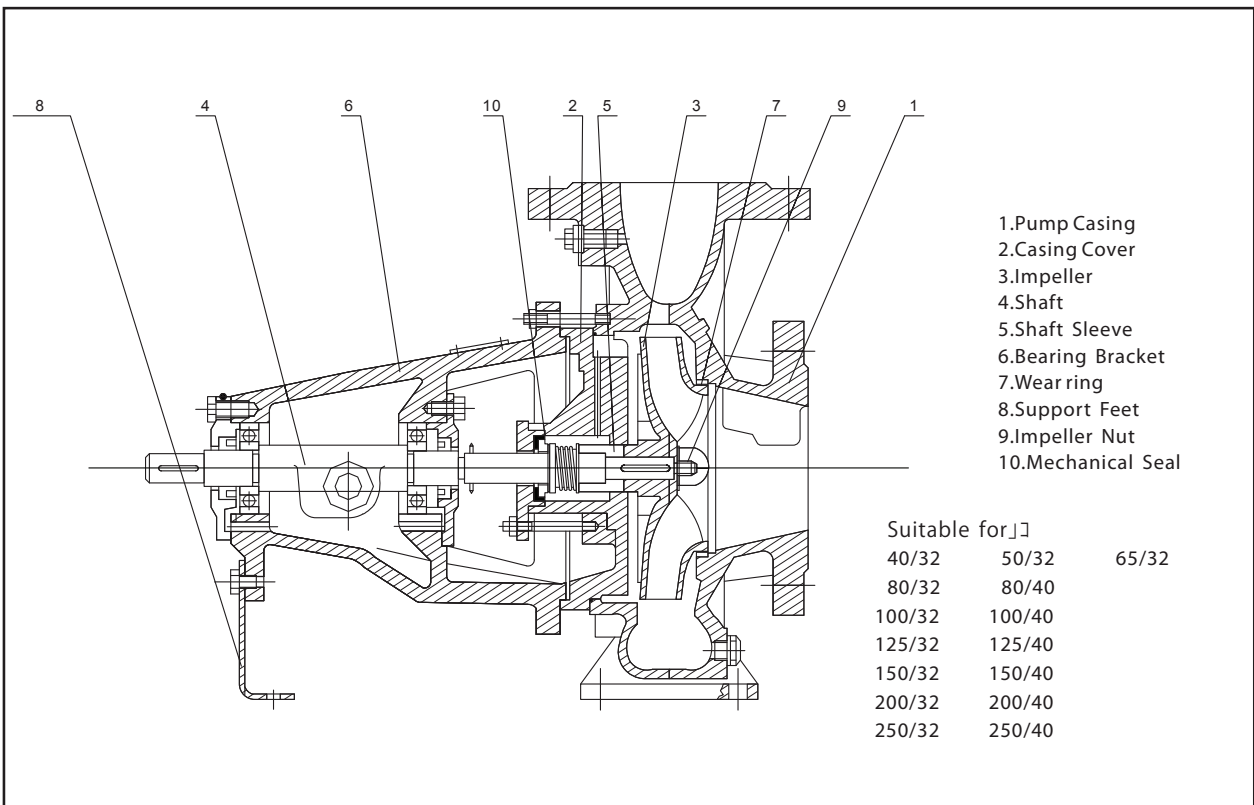
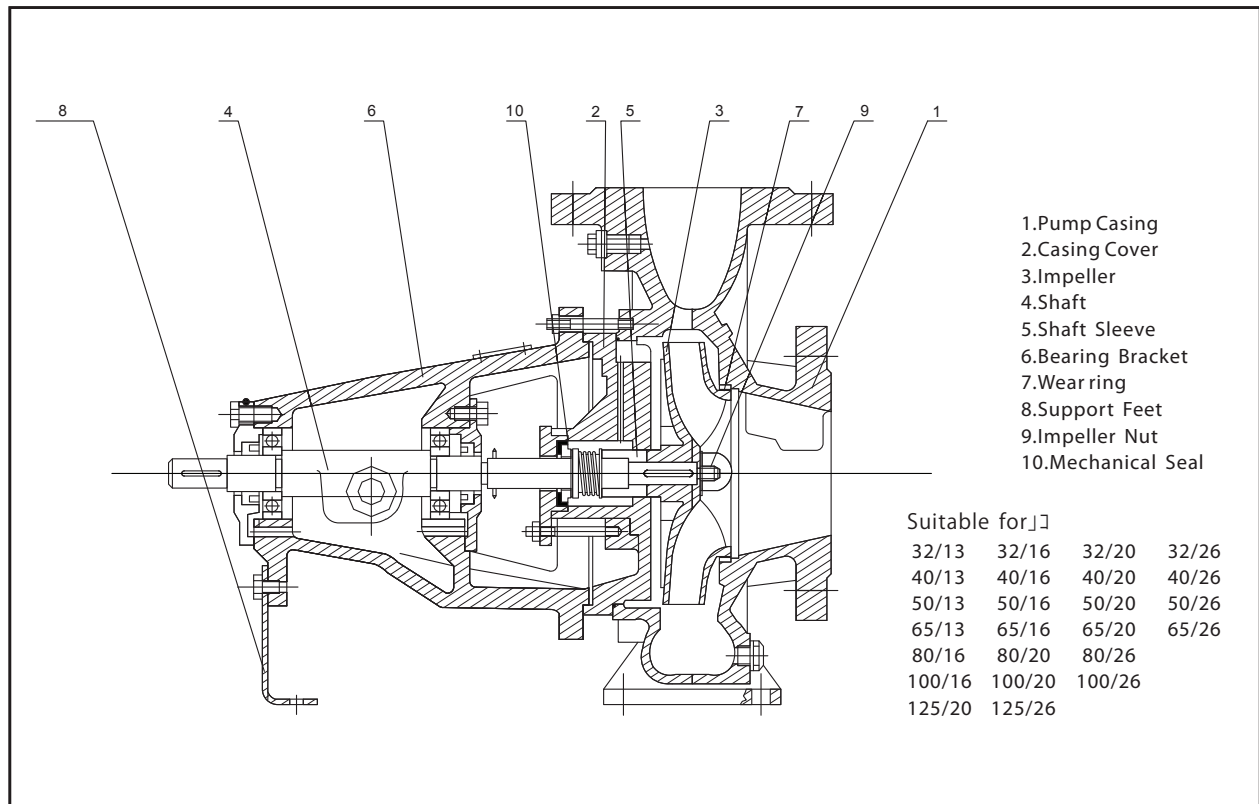
MATERIALS OF CONSTRUCTION

	Bronze Fitted	Cast Iron	All Iron
Casing	Cast Iron	Cast Iron	Cast Iron
Impeller	Bronze	Cast Iron	Cast Iron
Wear Ring	Cast Iron	Cast Iron	Cast Iron
Shaft	Stainless steel	Stainless steel	Stainless Steel
Shaft Nut	Stainless steel	Stainless steel	Cast Iron
Shaft Sleeve	Stainless steel	Stainless steel	Stainless Steel
Lantern Ring	Cast Iron	Cast Iron	Cast Iron
Gland	Cast Iron	Cast Iron	Cast Iron

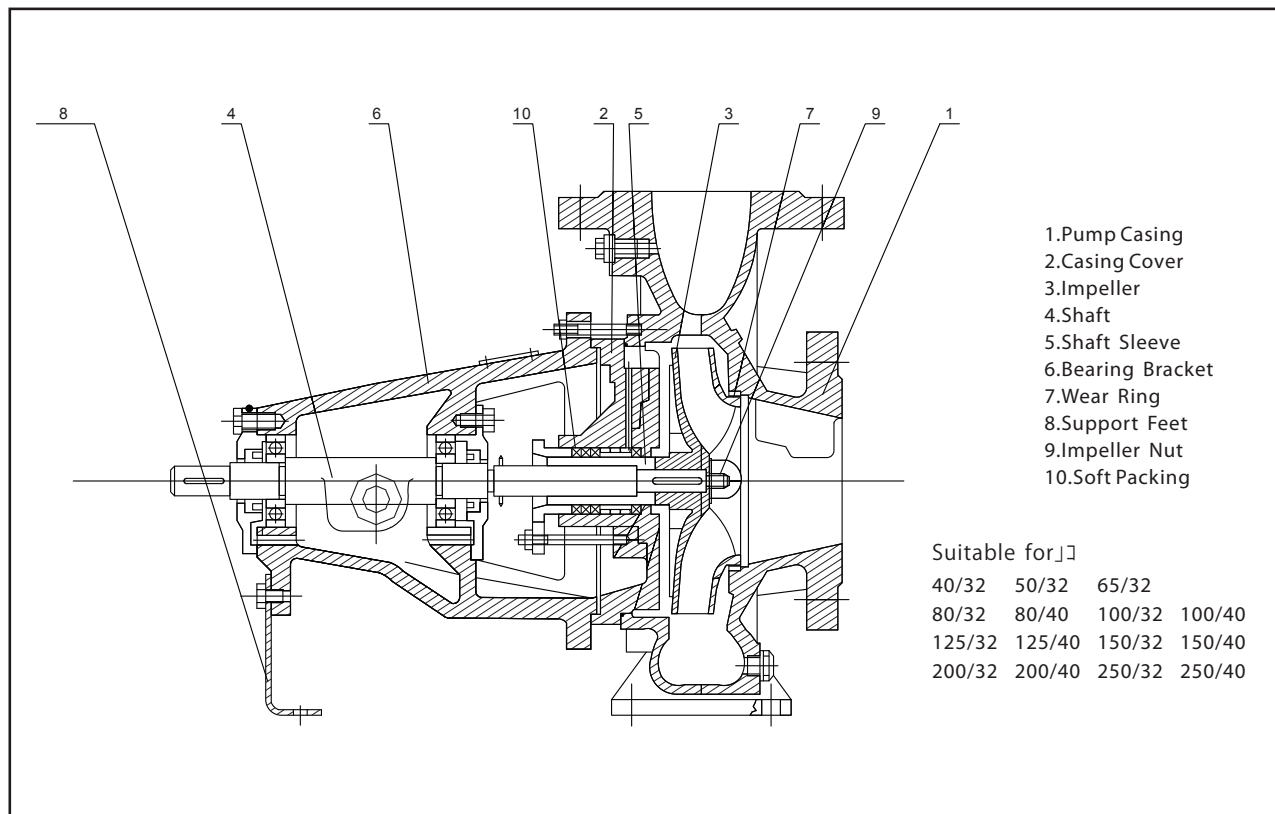
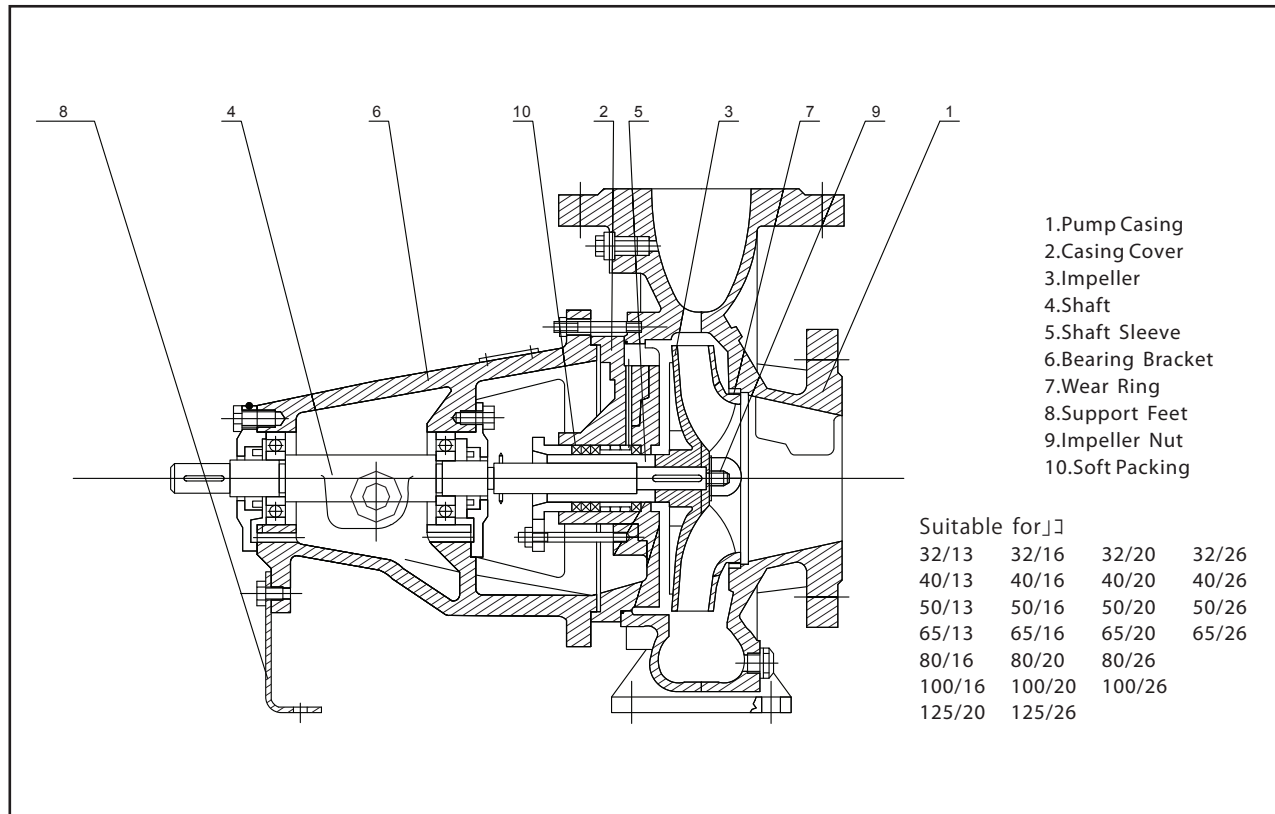
MATERIALS SPECIFICATION

Material	Nearest Equivalent Standard			
	Australian	British	American	DIN
Cast Iron	AS 1830/T200	BS 1452: GR 220	ASTM A48 Class 30	DIN 1691 GG 20
Bronze	AS 1565/836B	BS 1400: LG 2	ASTM B145 CDA836	DIN 1705
Stainless Steel	AS 1444 GR 420	BS 970: 420/S37	AISI 420	DIN 17440

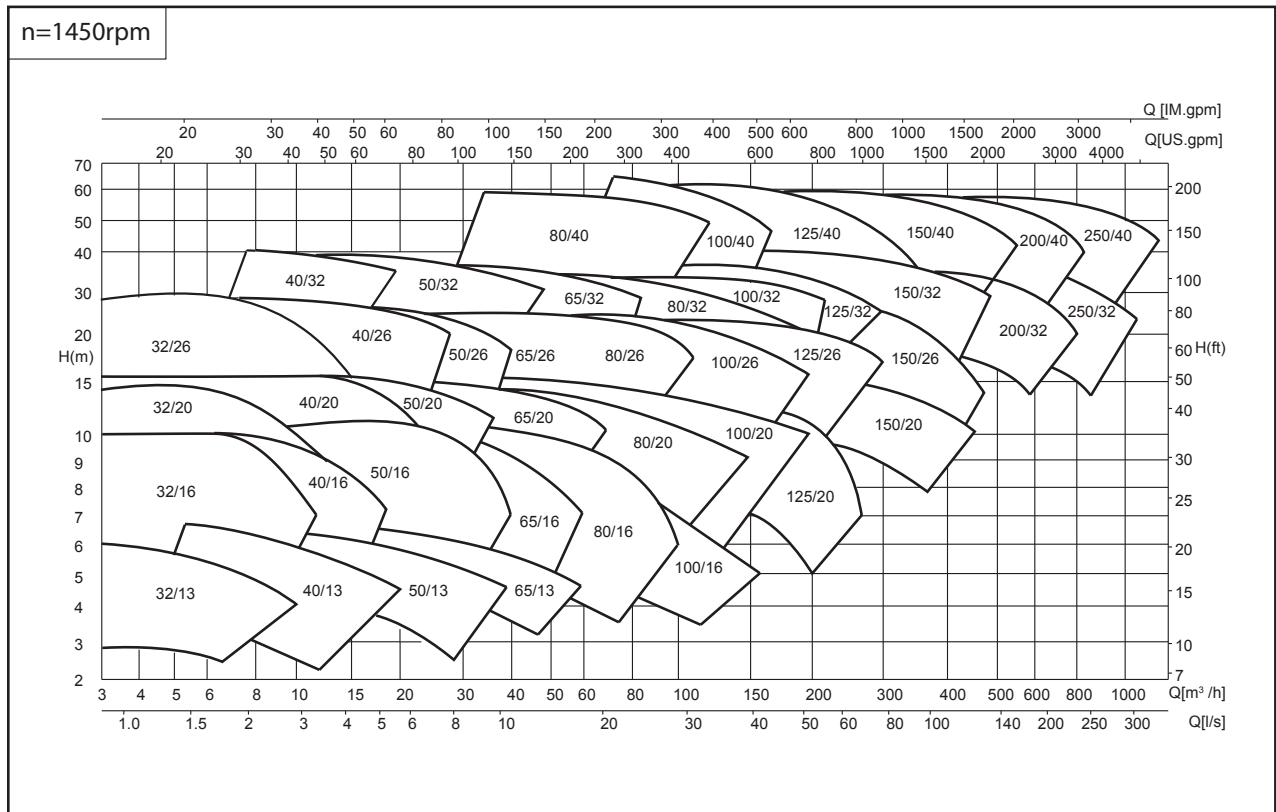
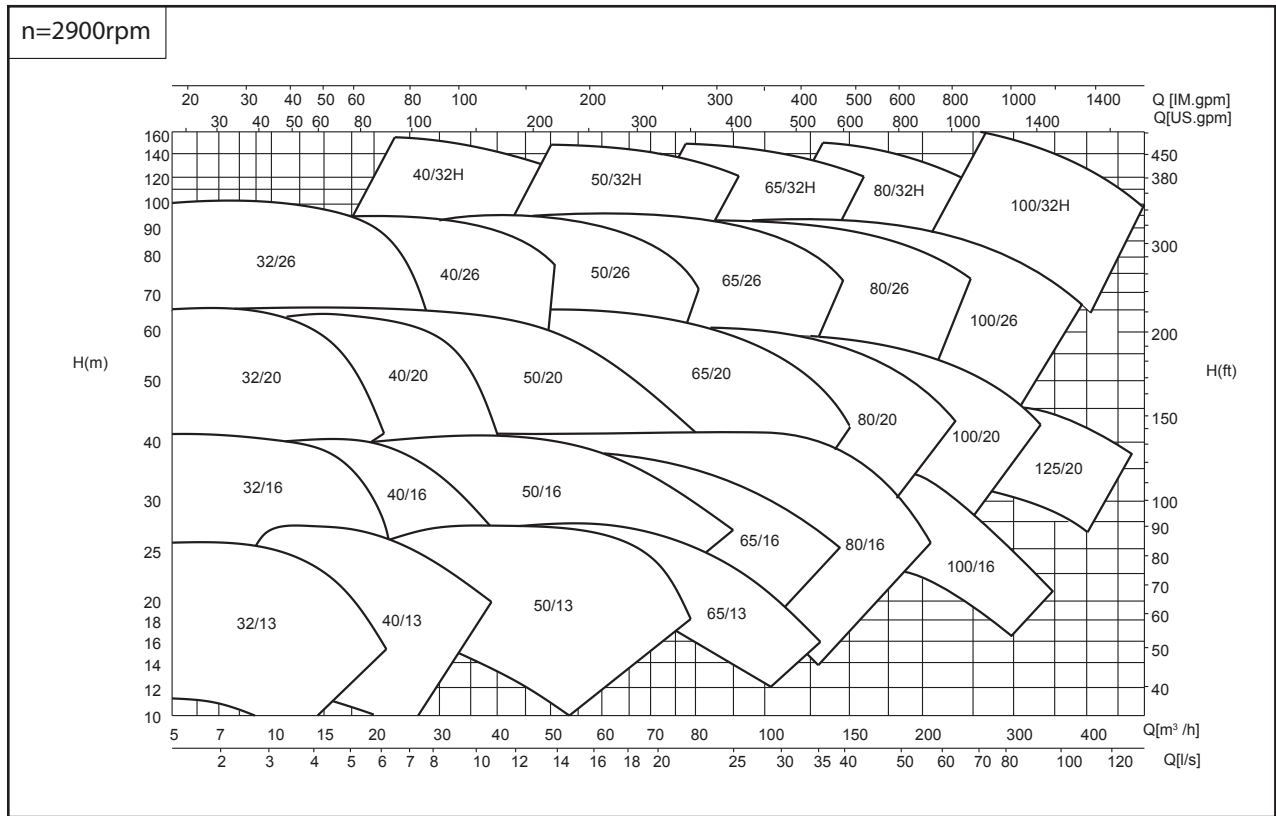
GENERAL ARRANGEMENT DRAWING (Mechanical Seal)



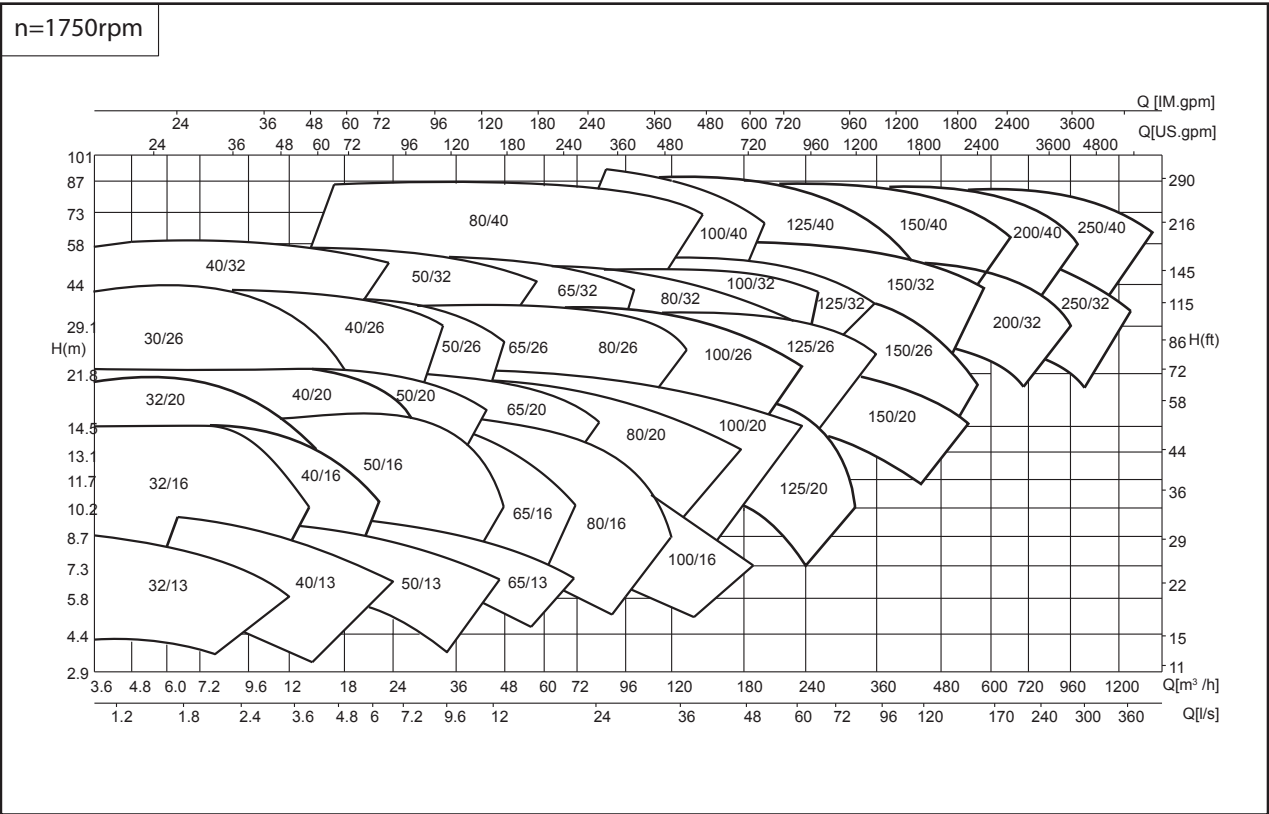
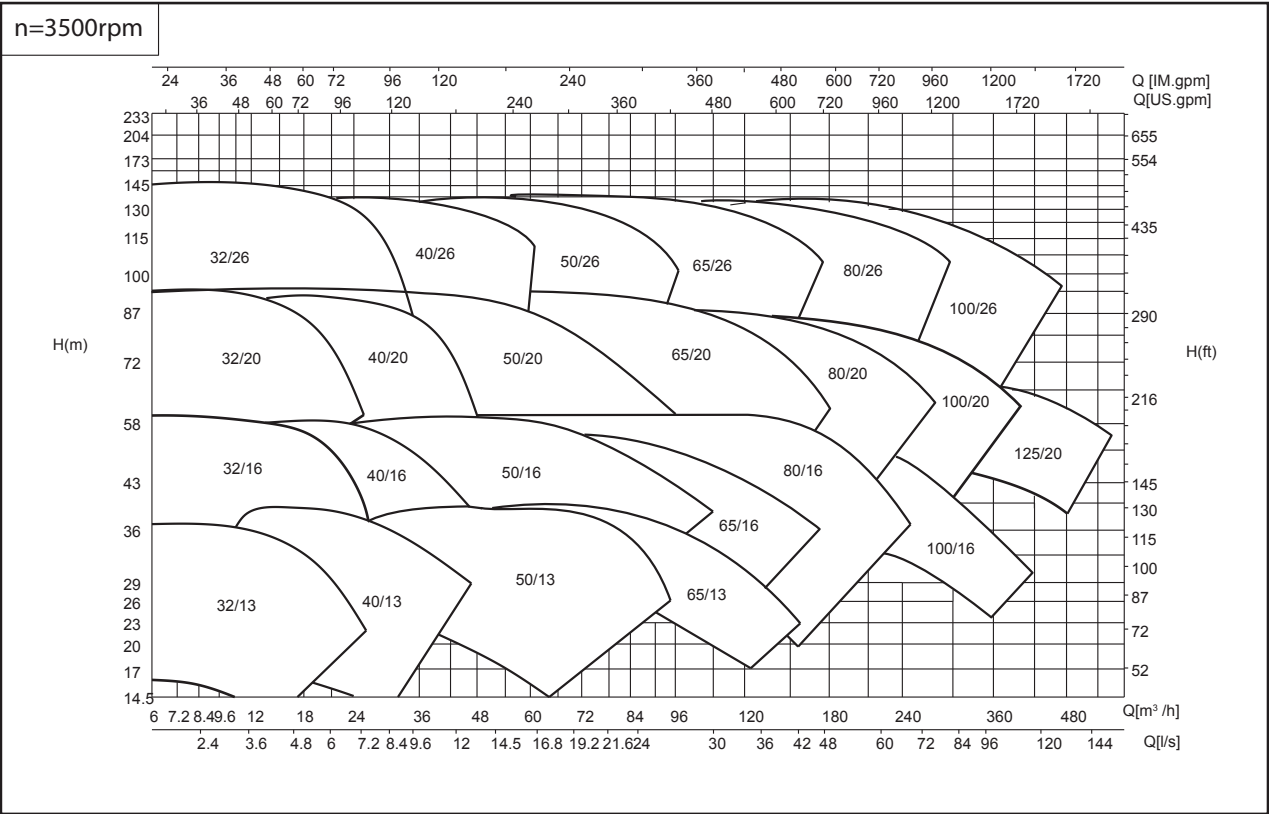
GENERAL ARRANGEMENT DRAWING (Packing)



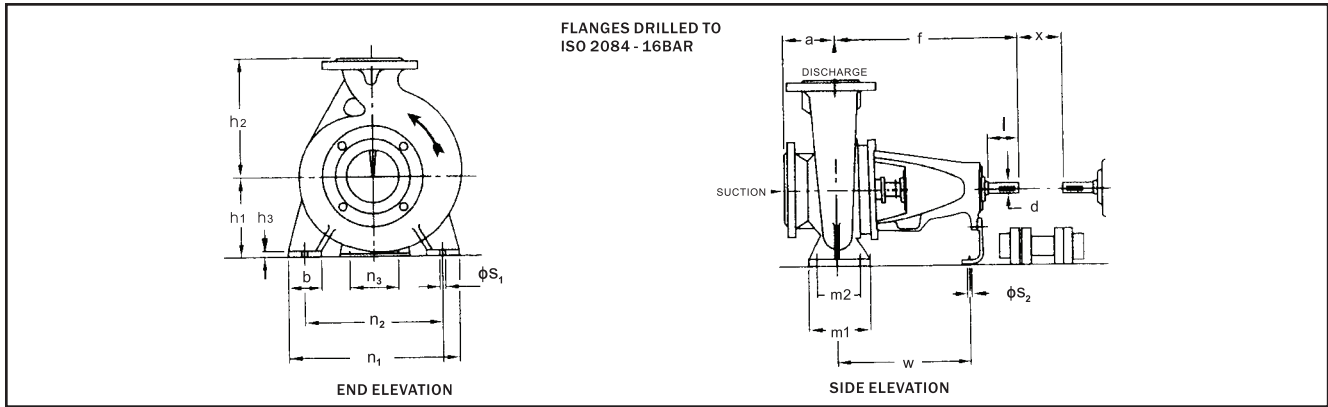
SELECTION RANGE CHART



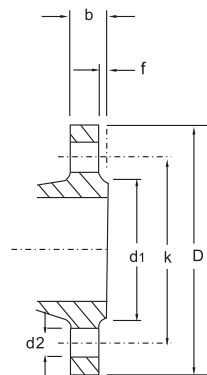
SELECTION RANGE CHART



DIMENSIONS



Model	Shaft Diameter	Suction	Discharge	Pump Dimensions								Foot Dimensions						Shaft End		Coupling Key	Net Weight (Kg)					
				a	f	h1	h2	b	m1	m2	n1	n2	n3	h3	ϕS_1	ϕS_2	w	x	d			l				
O2PA 32/13	25	50	32	80		112	140	50	100	70	190	140	100												28	
O2PA 32/16				80	360	132	160	50	100	70	240	190	100	100	14	14	14	267	140	24	50	8X7	36			
O2PA 32/20				80	160	180	50	100	70	240	190	110														43
O2PA 32/26				100	180	225	65	125	95	320	250	110														
O2PA 40/13	25	65	40	80	360	112	140	50	100	70	210	160	100				267		24	50	8X7	31				
O2PA 40/16				80	360	132	160	50	100	70	240	190	100	100	14	14	14	267	140	24	50	8X7	37			
O2PA 40/20				100	360	160	180	50	100	70	265	212	110						267		24	50	8X7	46		
O2PA 40/26				100	360	180	225	65	125	95	320	250	110						267	140	24	50	8X7	63		
O2PA 40/32	35	65	40	125	470	200	250	65	125	95	350	280	110				342		32	80	10X8	96				
O2PA 40/32H				125	519	200	250	65	125	95	350	280	110					362		42	110	12X8	104			
O2PA 50/13				100	360	132	160	50	100	70	240	190				14			267		24	50	8X7	34		
O2PA 50/16				100	360	160	180	50	100	70	265	212				14			267		24	50	8X7	38		
O2PA 50/20	25	65	50	100	360	160	200	50	100	70	265	212					267	140	24	50	8X7	48				
O2PA 50/26				100	360	180	225	65	125	95	320	250	110			14	14	14	267	140	24	50	8X7	65		
O2PA 50/32				125	470	225	280	65	125	95	350	280				16			342		32	80	10X8	101		
O2PA 50/32H				125	523.5	225	280	65	125	95	350	280				16			364		42	110	12X8	110		
O2PA 65/13	25	80	65	100	360	160	180	65	125	95	280	212					267		24	50	8X7	40				
O2PA 65/16				100	360	160	200	65	125	95	280	212				14	14		267		24	50	8X7	44		
O2PA 65/20				100	360	180	225	65	125	95	320	250	110			14	14	14	267	140	24	50	8X7	54		
O2PA 65/26				100	470	200	250	80	160	120	360	280				16	18		342		32	80	10X8	83		
O2PA 65/32	35	80	65	125	470	225	280	80	160	120	400	315					342		32	80	10X8	110				
O2PA 65/32H				125	520	225	280	80	160	120	400	315				16	18		363		42	110	12X8	118		
O2PA 80/16				360	180	225	65	125	95	320	250					14	14		267		24	50	8X7	55		
O2PA 80/20				470	180	250	65	125	95	345	280					14	14		342		32	80	10X8	72		
O2PA 80/26	35	100	80	470	200	280	80	160	120	400	315						342	140	32	80	10X8	92				
O2PA 80/32				470	250	315	80	160	120	400	315					16	18		342		32	80	10X8	120		
O2PA 80/32H				521	250	315	80	160	120	440	355					16	18		363		42	110	12X8	128		
O2PA 80/40				530	280	355	80	160	120	440	355					18	18		370		42	110	12X8	162		
O2PA 100/16	35	125	100	125	470	200	250	80	160	120	360	280					342		32	80	10X8	81				
O2PA 100/20				125	470	200	280	80	160	120	360	280				16	18		342		32	80	10X8	87		
O2PA 100/26				140	470	225	280	80	160	120	400	315				16	18		342		32	80	10X8	110		
O2PA 100/26H				140	520	225	280	80	160	120	400	315	110			16	18	14	363	140	42	110	12X8	117		
O2PA 100/32	35	125	100	140	470	250	315	80	160	120	400	315					342		32	80	10X8	134				
O2PA 100/32H				140	520	250	315	80	160	120	400	315				16	18		363		42	110	12X8	143		
O2PA 100/40				140	530	280	355	100	200	150	500	400				18	23		370		42	110	12X8	177		
O2PA 125/20				470	250	315	80	160	120	400	315					16	18		342		32	80	10X8	111		
O2PA 125/26	35	150	125	470	250	355	80	160	120	400	315						342	140	32	80	10X8	115				
O2PA 125/32				530	280	355	100	200	150	500	400	110				18	23	14	370		42	110	12X8	163		
O2PA 125/40				530	315	400	100	200	150	500	400					18	23		370		42	110	12X8	190		
O2PA 150/20				495	280	400				550	450					20			367		32	80	10X8	140		
O2PA 150/26	45	200	150	530	250	355	100	200	150	450	350	110					370	140	42	110	12X8	164				
O2PA 150/32				530	280	400				550	450					18			370		42	110	12X8	175		
O2PA 150/40				530	315	450				550	450					18			370		42	110	12X8	210		
O2PA 200/32				55	250	200	225	725	315	435	100	200	150	550	450	140				500		48		14X10	251	
O2PA 200/40	250	200	225				670	315	450	100	200	150	550	450	140				500		48	110	14X10	295		
O2PA 250/32	300	250	250				693	400	500	100	270	180	500	400	180	30	23	14	513		48		14X10	311		
O2PA 250/40	300	250	250				797	450	505	125	270	210	600	500	180				611		60		18X12	390		



Flange Dimensions and drilling according to ISO 2084 - 16 BAR (BS 4504 - 1969 TABLE 16/11). *Holes - Equally spaced straddling pump centreline.

Flange Data

Dimensions in mm

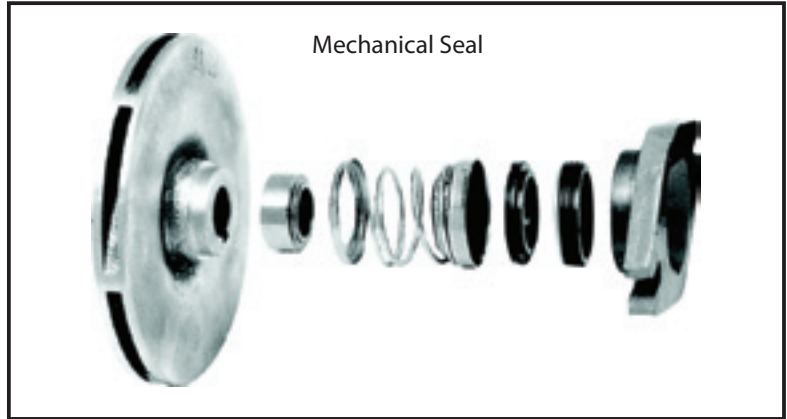
BRACH SIZE	FLANGE		RAISED FACE		DRILLING*			BOLTING
	D	b	d ₁	f	No.	d ₂	k	
32	140	18	78	2	4	18	100	M16
40	150	18	88	3	4	18	110	M16
50	165	20	102	3	4	18	125	M16
65	185	20	122	3	4	18	145	M16
80	200	22	138	3	8	18	160	M16
100	220	24	158	3	8	18	180	M16
125	250	26	188	3	8	18	210	M16
150	285	26	212	3	8	22	240	M20
200	340	30	268	3	12	22	295	M20

Range from 32mm to 250mm discharge

Easyflow range fully complies to both performance and dimensional standards for the International Standard DIN 24255

Stuffing Box

Standard stuffing box includes gland packing with a lantern ring incorporating high pressure internal flushing. External flush can be fitted and pump can be supplied with a mechanical seal. Conversion from packed box to mechanical seal and back to packing is easy. All pumps that can operate at 2 pole speed have a close tolerance stuffing box bush fitted.



Bearing Housing

Rugged cast iron construction with only three bearing housings covering complete range of pumps which gives many common interchangeable parts

Bearings

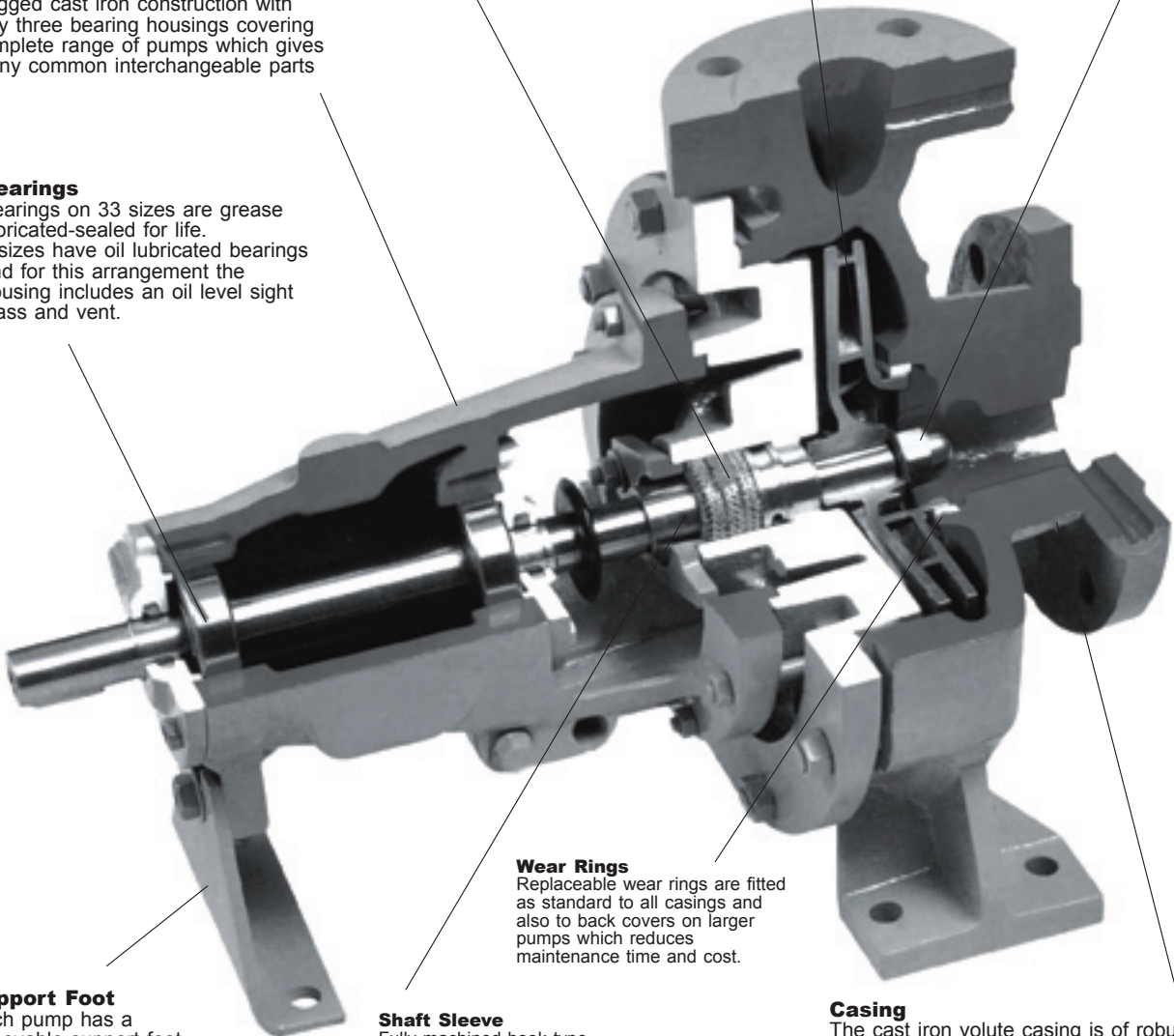
Bearings on 33 sizes are grease lubricated-sealed for life. 4 sizes have oil lubricated bearings and for this arrangement the housing includes an oil level sight glass and vent.

Impeller

Double shrouded type is hydraulically balanced and positively driven by shaft key and axially locked between sleeve and impeller nut.

Shaft

A domed type locking nut seats the stainless steel shaft at the impeller. Only 4 shafts are required to cover whole 37 sizes and reduces inventory to a minimum.



Support Foot

Each pump has a removable support foot fitted at drive end for greater rigidity.

Shaft Sleeve

Fully machined hook type shaft sleeve prevents shaft damage under the gland packing which substantially reduces maintenance costs.

Wear Rings

Replaceable wear rings are fitted as standard to all casings and also to back covers on larger pumps which reduces maintenance time and cost.

Casing

The cast iron volute casing is of robust design with integrally cast feet, vertical top centreline discharge with axial suction incorporating cast inlet vane to give best flow to impeller eye.