

MERIN PUMPS

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

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Range from 32mm to 250mm discharge

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.

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

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.

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.

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

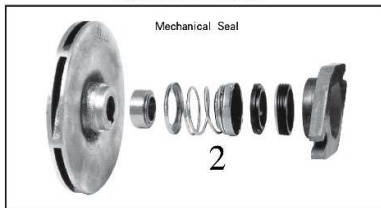
The cast iron volute casing is of robust design with integrally cast feet, vertical top centreline discharge with axial suction incorporating cast inlet vane to give best flow to impeller eye.

Support Foot

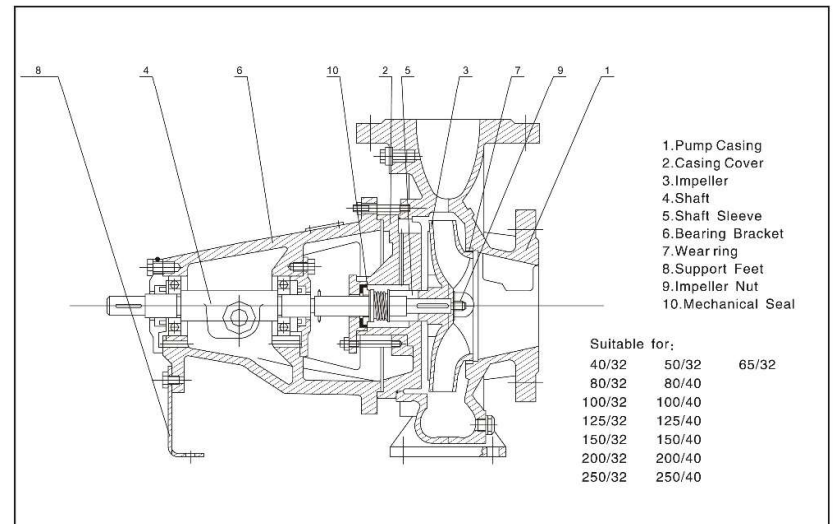
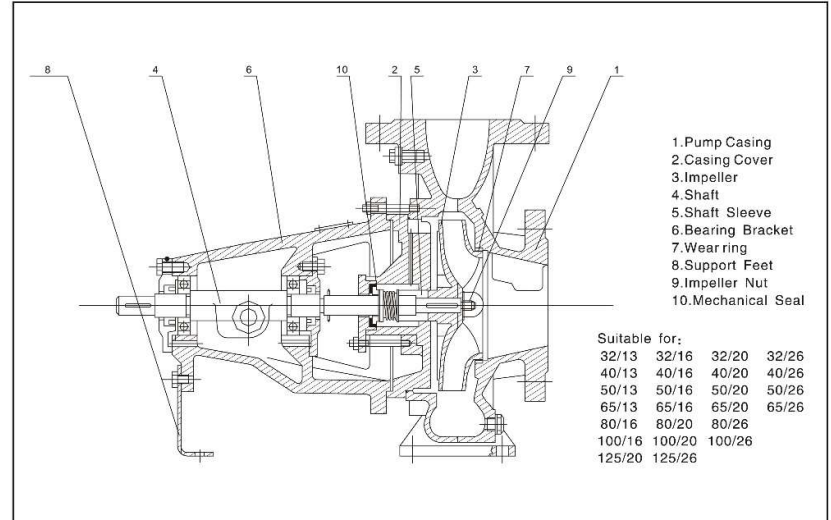
Each pump has a removable support foot fitted at drive end for greater rigidity.

Shaft Sleeve

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

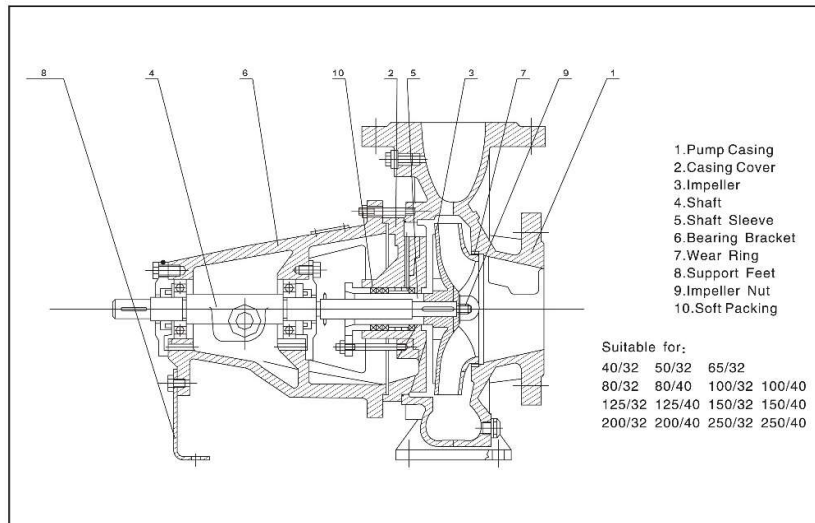
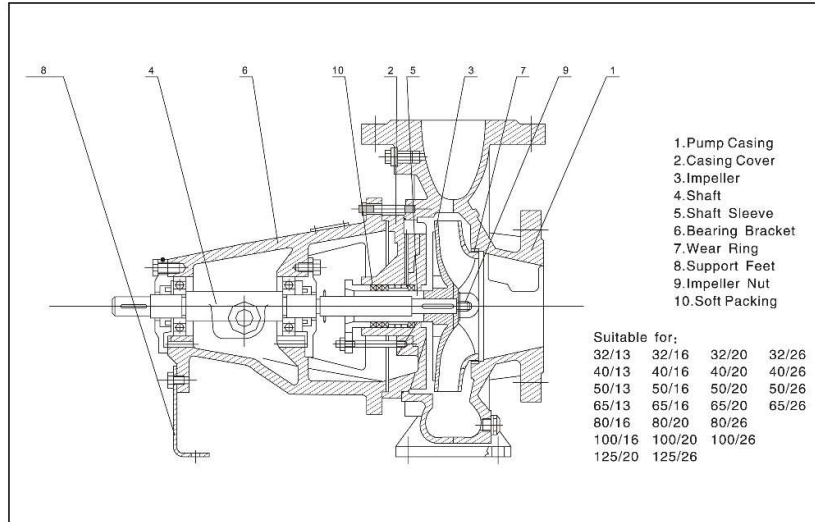


GENERAL ARRANGEMENT DRAWING (Mechanical Seal)

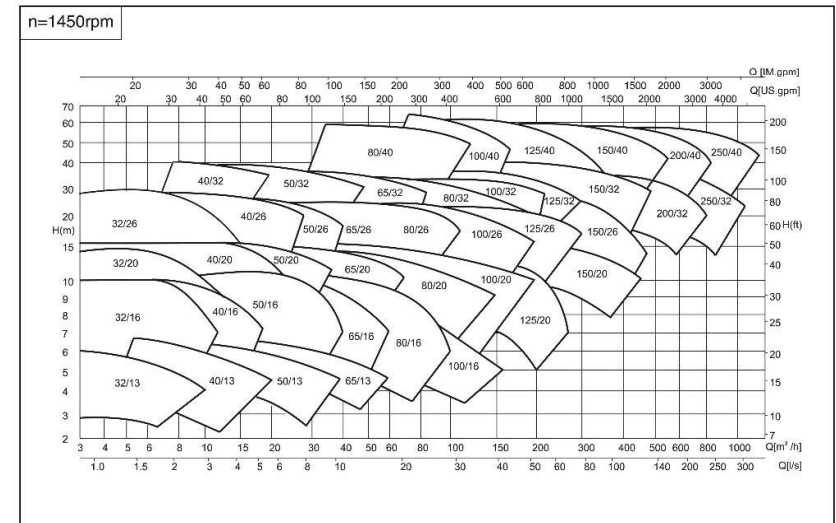
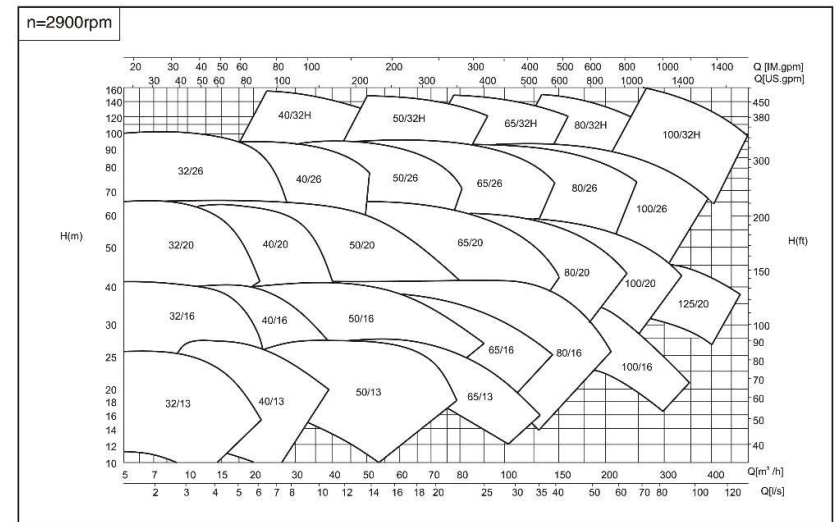


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GENERAL ARRANGEMENT DRAWING (Packing)

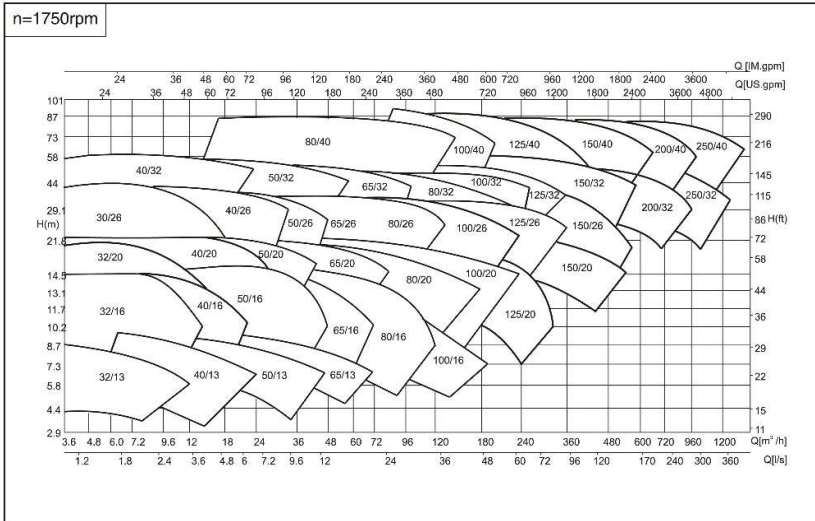
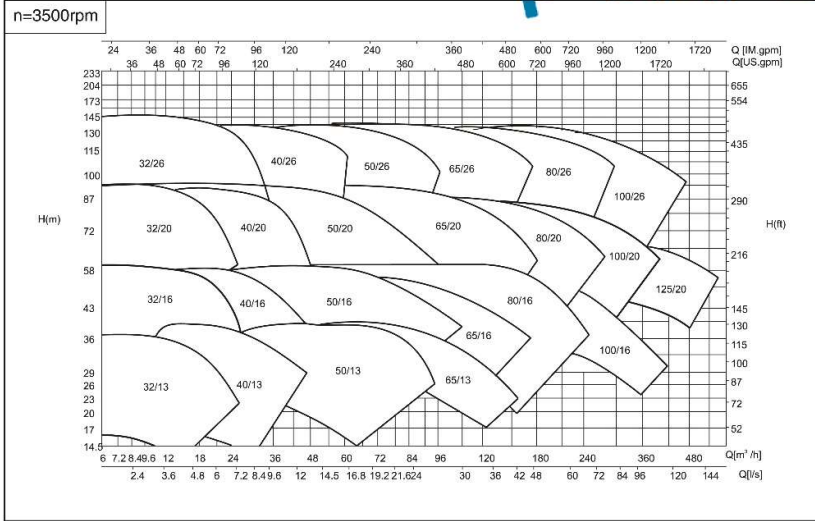


SELECTION RANGE CHART

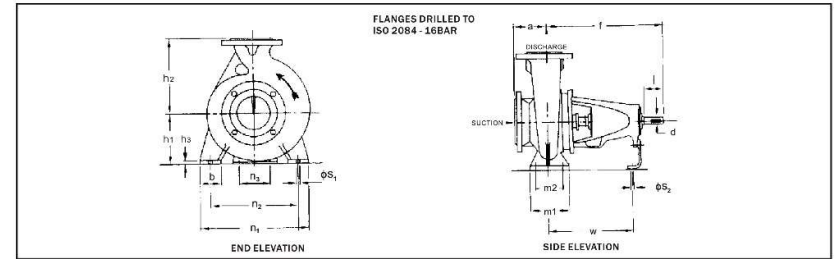


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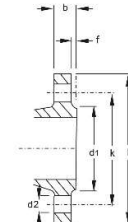
SELECTION RANGE CHART



DIMENSIONS



Model	Shaft Diameter	Suction	Discharge	Pump Dimensions								Foot Dimensions					Shaft End	Net Weight (Kg)		
				a	f	h1	h2	b	m1	m2	n1	n2	n3	h3	øS1	øS2			w	d
PA32-13	25	50	32	80	112	140	50	100	70	190	140	100	14	14	14	267	24	50	28	
PA32-16				80	132	160	50	100	70	240	190	100							43	
PA32-20				80	160	180	50	100	70	240	190	110							63	
PA32-26	25	65	40	100	180	225	65	125	95	320	250	110	14	14	14	267	24	50	63	
PA40-13				80	360	112	140	50	100	70	210	160							100	31
PA40-16				80	360	132	160	50	100	70	240	190							100	37
PA40-20	25	80	50	100	360	160	180	50	100	70	265	212	110	14	14	14	267	24	50	46
PA40-26				100	360	180	225	65	125	95	320	250	110							63
PA40-32				125	470	200	225	65	125	95	345	280	110							96
PA40-32H	25	80	50	125	519	200	225	65	125	95	345	280	110	14	14	14	267	24	50	101
PA50-13				100	360	132	160	50	100	70	240	190	100							34
PA50-16				100	360	160	180	50	100	70	265	212	110							38
PA50-20	25	80	50	100	360	160	200	50	100	70	265	212	110	14	14	14	267	24	50	48
PA50-26				100	360	180	225	65	125	95	320	250	110							65
PA50-32				125	470	225	280	65	125	95	345	280	110							101
PA50-32H	25	80	50	125	523.5	225	280	65	125	95	345	280	110	14	14	14	267	24	50	110
PA65-13				100	360	160	180	50	100	70	265	212	110							40
PA65-16				100	360	180	200	50	100	70	280	212	110							44
PA65-20	25	80	50	100	360	180	225	65	125	95	320	250	110	14	14	14	267	24	50	54
PA65-26				100	360	200	250	65	125	95	345	280	110							83
PA65-32				125	470	225	280	65	125	95	345	280	110							110
PA65-32H	25	80	50	125	520	225	280	65	125	95	345	280	110	14	14	14	267	24	50	118
PA80-16				100	360	180	225	65	125	95	320	250	110							55
PA80-20				100	360	200	250	65	125	95	345	280	110							72
PA80-26	25	80	50	100	360	180	225	65	125	95	320	250	110	14	14	14	267	24	50	92
PA80-32				125	470	225	280	65	125	95	345	280	110							120
PA80-32H				125	520	225	280	65	125	95	345	280	110							128
PA80-40	25	80	50	125	520	225	280	65	125	95	345	280	110	14	14	14	267	24	50	162
PA100-16				100	360	180	225	65	125	95	320	250	110							81
PA100-20				100	360	200	250	65	125	95	345	280	110							87
PA100-26	25	80	50	100	360	180	225	65	125	95	320	250	110	14	14	14	267	24	50	110
PA100-32				125	470	225	280	65	125	95	345	280	110							117
PA100-32H				125	520	225	280	65	125	95	345	280	110							134
PA100-40	25	80	50	100	360	180	225	65	125	95	320	250	110	14	14	14	267	24	50	143
PA125-20				100	360	200	250	65	125	95	345	280	110							177
PA125-26				125	470	225	280	65	125	95	345	280	110							111
PA125-32	25	80	50	100	360	180	225	65	125	95	320	250	110	14	14	14	267	24	50	115
PA125-40				125	470	225	280	65	125	95	345	280	110							163
PA150-20				100	360	200	250	65	125	95	345	280	110							190
PA150-26	25	80	50	100	360	180	225	65	125	95	320	250	110	14	14	14	267	24	50	140
PA150-32				125	470	225	280	65	125	95	345	280	110							164
PA150-40				150	530	250	315	65	125	95	345	280	110							175
PA200-32	25	80	50	100	360	180	225	65	125	95	320	250	110	14	14	14	267	24	50	210
PA200-40				125	470	225	280	65	125	95	345	280	110							251
PA250-32				150	530	250	315	65	125	95	345	280	110							295
PA250-40	25	80	50	100	360	180	225	65	125	95	320	250	110	14	14	14	267	24	50	311
PA250-40				125	470	225	280	65	125	95	345	280	110							390
PA250-40				150	530	250	315	65	125	95	345	280	110							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

BRACH SIZE	FLANGE				RAISED FACE		DRILLING*			BOLTING	
	D	b	d1	f	No.	d2	k	l	M	Weight	
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			