



P A Back Pull-Out End Suction Centrifugal Pump



Range form 32mm to 250mm discharge

The PA 'easyflow', back pull-out range complies fully with DIN 24255 standards in respect of performance & key dimensions.



Mechanical Seal

Stuffing Box

Standard pumps are supplied with single mechanical seals. Packed glands may be provided, on request, with either internal or external flushing. Close tolerance stuffing box bushes are fitted for units operating at 2 pole speeds.

Impeller

All units have fully shrouded, hydraulically balanced, keyed impellers supplied in either cast iron or bronze.

Shaft

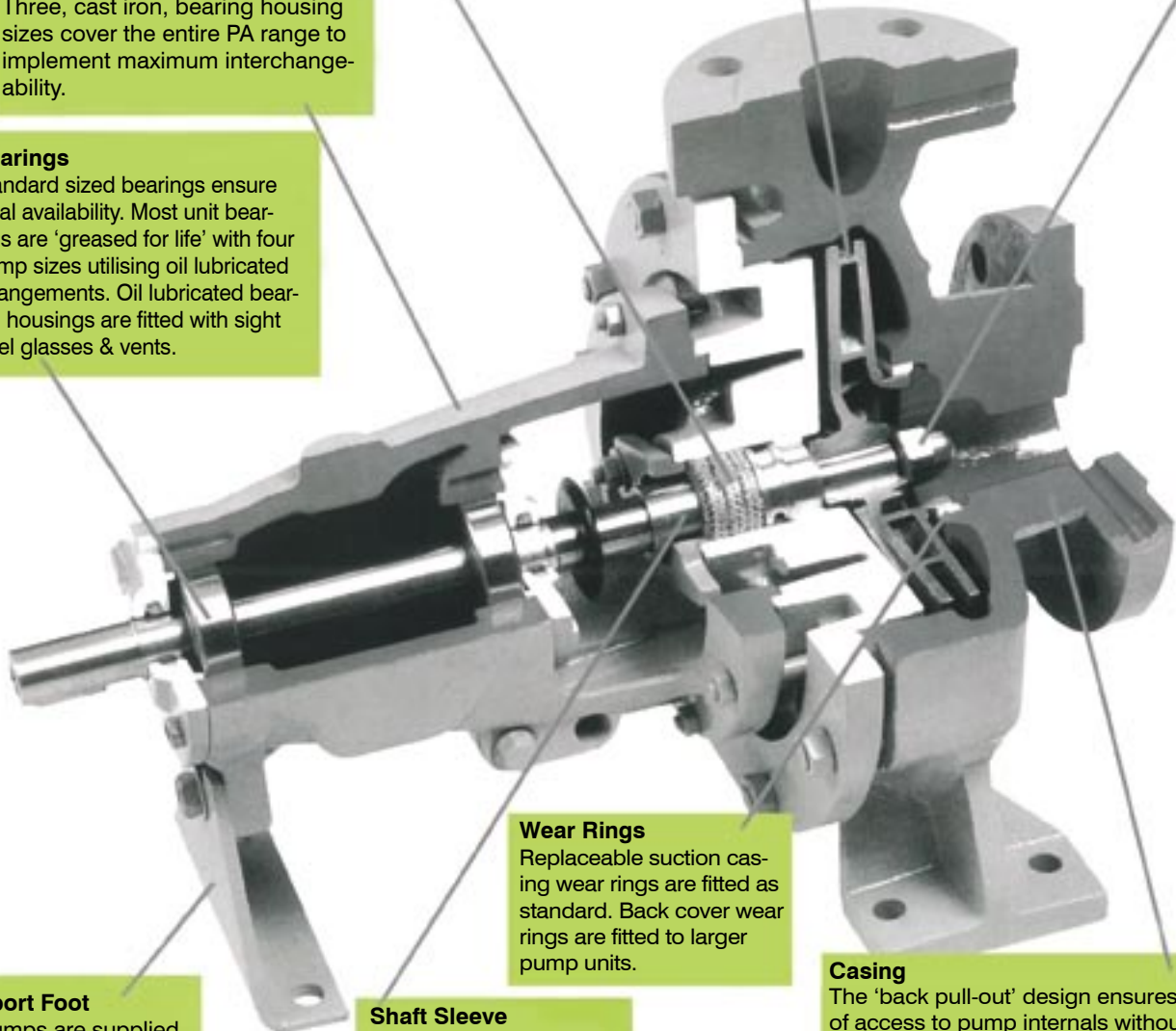
Three sizes of stainless steel shafts cover the entire PA range to implement maximum interchangeability.

Bearing Housing

Three, cast iron, bearing housing sizes cover the entire PA range to implement maximum interchangeability.

Bearings

Standard sized bearings ensure local availability. Most unit bearings are 'greased for life' with four pump sizes utilising oil lubricated arrangements. Oil lubricated bearing housings are fitted with sight level glasses & vents.



Wear Rings

Replaceable suction casing wear rings are fitted as standard. Back cover wear rings are fitted to larger pump units.

Casing

The 'back pull-out' design ensures ease of access to pump internals without disturbing pipework. The robust cast iron casings have integrally cast mounting feet. Suction flow vanes are standard for controlled impeller inlet flow.

Support Foot

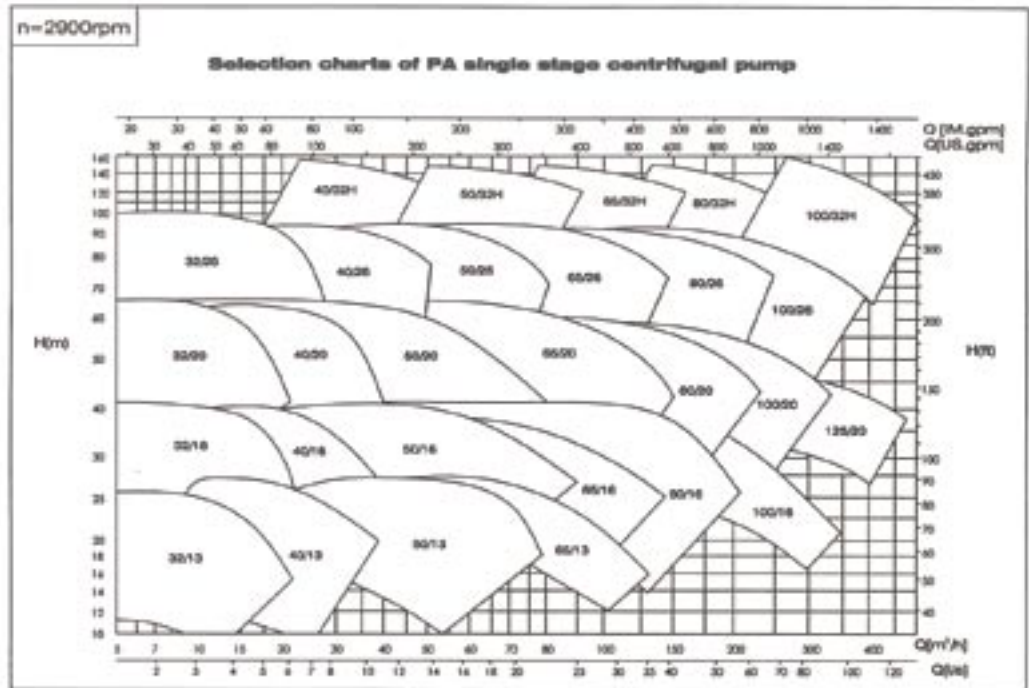
All pumps are supplied with a drive end support foot for greater rigidity.

Shaft Sleeve

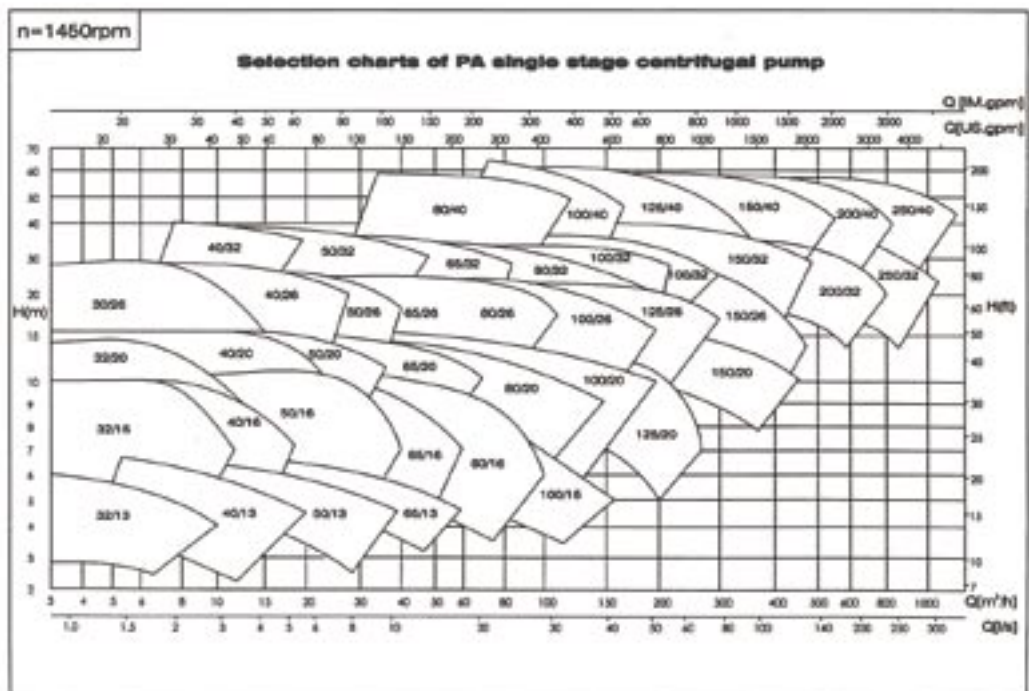
Fitted on packed gland versions only, these 'hooked' type sleeves prevent shaft damage.

Selection Range Chart

**SELECTION CHART
2900 RPM**



**SELECTION CHART
1450 RPM**





**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 |

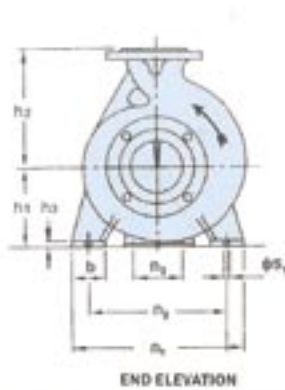
MATERIALS OF CONSTRUCTION

	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

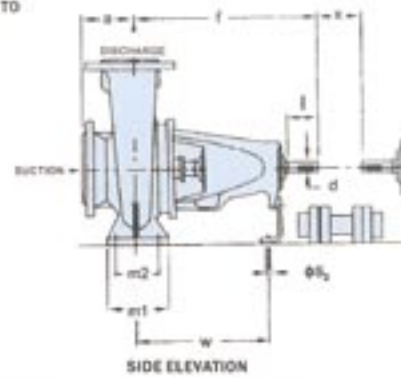
MATERIALS SPECIFICATION

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 670: 420/S37	AISI 420	DIN 17440

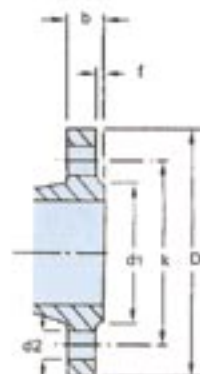
DIMENSIONS



FLANGES DRILLED TO
ISO 2084 - 16BAR



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	phi S1	phi S2	w	x	d			l										
PA32-13	25	50	32	80	360	112	140	50	100	70	190	140	100	14	14	14	267	140	24	50	8X7	28										
PA32-16				80		132	160	50	100	70	240	190	100									36										
PA32-20				80		160	180	50	100	70	240	190	110									36										
PA32-26				100		225	250	65	125	95	320	250	110									36										
PA40-13	25	65	40	80	360	112	140	50	100	70	210	160	100	14	14	14	267	140	24	50	8X7	31										
PA40-16				80		132	160	50	100	70	240	190	100									36										
PA40-20				100		160	180	50	100	70	265	212	110									36										
PA40-26				100		225	250	65	125	95	320	250	110									36										
PA40-32	35	65	40	125	470	200	250	65	125	95	350	280	110	14	14	14	342	140	32	80	10X8	96										
PA40-32H				125		200	250	65	125	95	350	280	110									36										
PA50-13				100		360	132	160	50	100	70	240	190									110	14	14	14	267	140	24	50	8X7	34	
PA50-16				100		360	160	180	50	100	70	265	212									110	14	14	14	267	140	24	50	8X7	38	
PA50-20	25	65	50	100	360	160	200	50	100	70	265	212	110	14	14	14	267	140	24	50	8X7	48										
PA50-26				100		360	180	225	65	125	95	320	250									110	36									
PA50-32				125		470	225	280	65	125	95	350	280									110	16	16	16	342	140	32	80	10X8	101	
PA50-32H				125		523	225	280	65	125	95	350	280									110	16	16	16	364	140	42	110	12X8	110	
PA65-13	25	80	65	100	360	180	180	65	125	95	280	212	110	14	14	14	267	140	24	50	8X7	40										
PA65-16				100		360	160	200	65	125	95	280	212									110	36									
PA65-20				100		360	180	225	65	125	95	320	250									110	14	14	14	267	140	24	50	8X7	54	
PA65-26				100		470	200	250	80	160	120	360	280									110	16	16	16	342	140	32	80	10X8	83	
PA65-32	35	80	65	125	470	225	280	80	160	120	400	315	110	16	16	16	342	140	32	80	10X8	110										
PA65-32H				125		225	280	80	160	120	400	315	110									36										
PA80-16				180		225	65	125	95	320	250	110	14									14	14	267	140	24	50	8X7	55			
PA80-20				180		250	65	125	95	345	280	110	14									14	14	342	140	32	80	10X8	72			
PA80-26	35	100	80	125	470	200	280	80	160	120	400	315	110	16	16	16	342	140	32	80	10X8	92										
PA80-32				125		250	315	80	160	120	400	315	110									36										
PA80-32H				45H		521	250	315	80	160	120	440	355									110	16	16	16	363	140	42	110	12X8	128	
PA80-40				45		530	280	355	80	160	120	440	355									110	16	16	16	370	140	42	110	12X8	162	
PA100-16	35	125	100	125	470	200	280	80	160	120	360	280	110	16	16	16	342	140	32	80	10X8	81										
PA100-20				125		200	280	80	160	120	360	280	110									36										
PA100-26				140		225	280	80	160	120	400	315	110									16	16	16	342	140	32	80	10X8	110		
PA100-26H				45H		140	520	225	280	80	160	120	400									315	110	16	16	16	363	140	42	110	12X8	117
PA100-32	35	125	100	140	470	250	315	80	160	120	400	315	110	16	16	16	342	140	32	80	10X8	134										
PA100-32H				45H		140	520	250	315	80	160	120	400									315	110	16	16	16	363	140	42	110	12X8	143
PA100-40				45		140	530	280	355	100	200	150	500									400	110	18	23	14	370	140	42	110	12X8	177
PA125-20				38		470	250	315	80	160	120	400	315									110	16	16	16	342	140	32	80	10X8	111	
PA125-26	35	150	125	140	470	250	355	80	160	120	400	315	110	16	16	16	342	140	32	80	10X8	115										
PA125-32				45		530	280	355	100	200	150	500	400									110	18	23	14	370	140	42	110	12X8	163	
PA125-40				45		530	315	400	100	200	150	500	400									110	18	23	14	370	140	42	110	12X8	190	
PA150-20				35		495	280	400	100	200	150	550	450									110	20	23	14	367	140	32	80	10X8	140	
PA150-26	45	200	150	160	530	250	355	100	200	150	450	350	110	18	23	14	370	140	42	110	12X8	164										
PA150-32				45		530	280	400	100	200	150	550	450									110	18	23	14	370	140	42	110	12X8	175	
PA150-40				45		530	315	450	100	200	150	550	450									110	18	23	14	370	140	42	110	12X8	210	
PA200-32				55		250	200	225	725	315	435	100	200									150	550	450	140	30	23	14	500	140	48	110
PA200-40	250	200	225		670			315		450	100	200	150	550	450	140	500	140	48	110	14X10	295										
PA250-32	300	250	250		693			400		500	100	270	180	500	400	180	513	140	48	110	14X10	311										
PA250-40	300	250	250		797			450		505	125	270	210	600	500	180	611	140	48	110	14X12	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

BRANCH SIZE	FLANGE				RAISED FACE			DRILLING*			BOLTING
	D	b	d1	f	No.	d2	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			



Wallace Pumps Limited.
Ph (09) 622 9100,
Fax (09) 622 9119,
P O Box 12 387, 55 Maurice Rd, Penrose, Auckland