

Curo Pumps, meeting the demands of Design and Innovation

- Robust Construction
- Innovative Equipment
- Superior Service
- Technical Backup
- Designed by Africans for African Conditions



Curo Pumps (PTY) LTD

African Design

- 1st Company in South Africa to design “new” equipment
- Simplicity to suite onsite conditions
- Innovative designing, to better current market place



Curo Pumps (PTY) LTD

Our Focus Market – Multi-stage

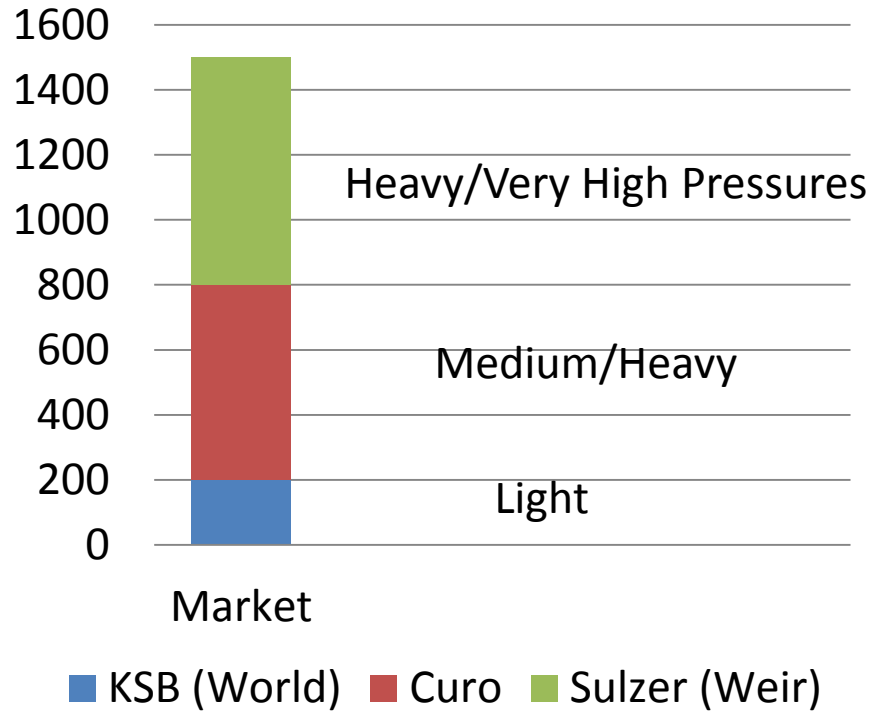


- During 1980'S, Curo went about designing Multi-stage pumps
- These pumps would then define Curo's place in the market.
- Best operation up to 800m, various flows

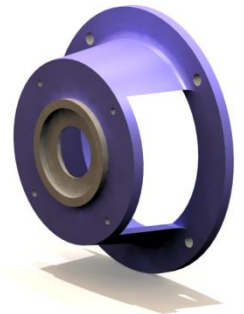
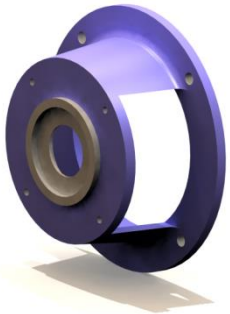
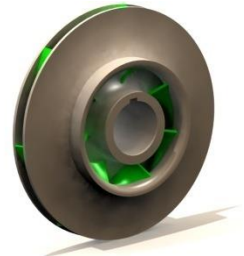
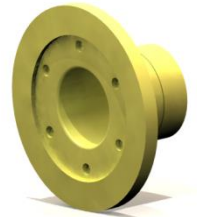
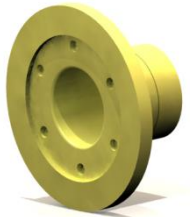
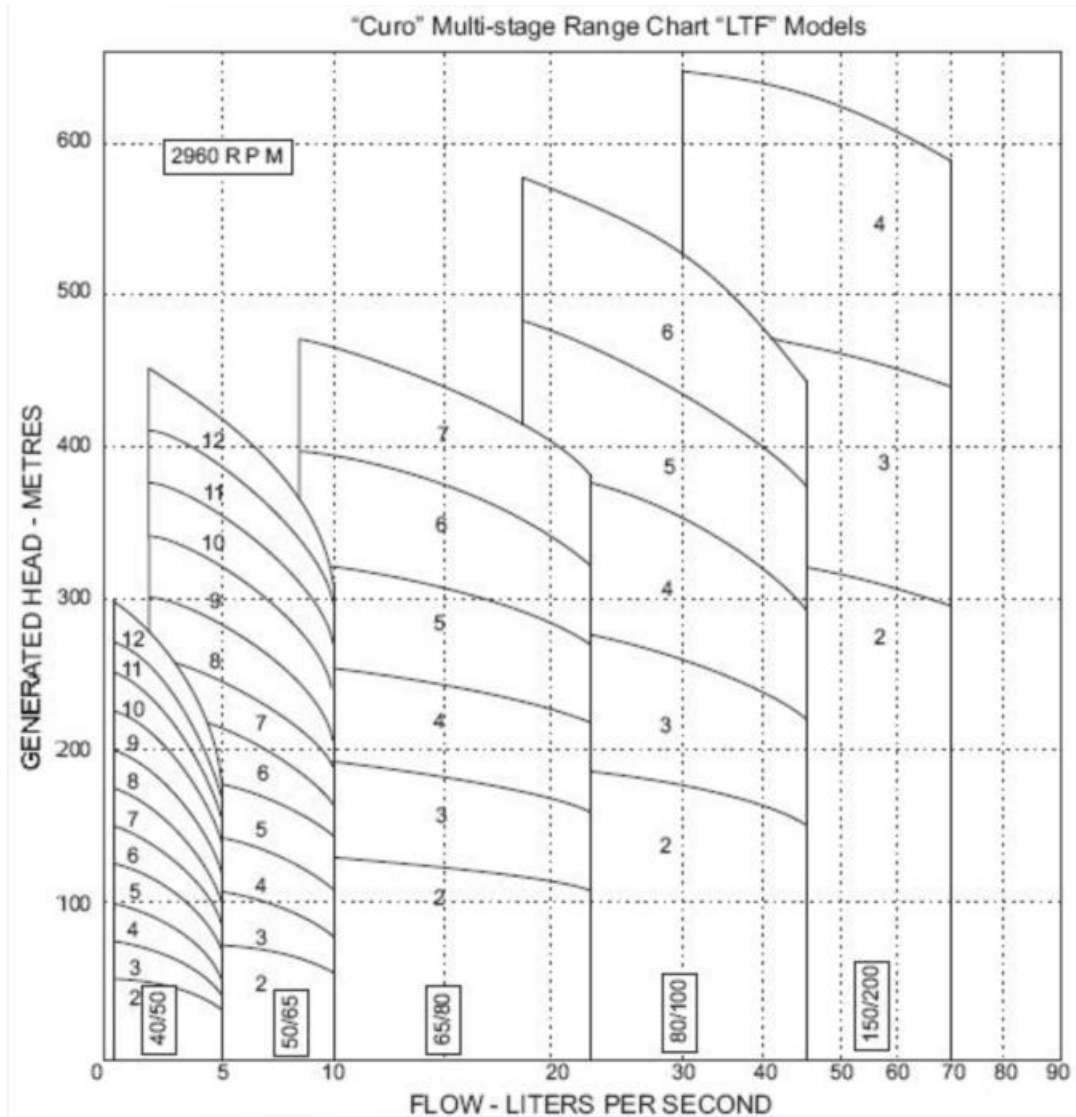


Curo Pumps (PTY) LTD

Curo Market Share



Multi-Stage Range Performance Chart 2900 RPM

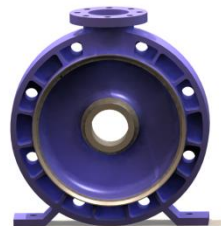
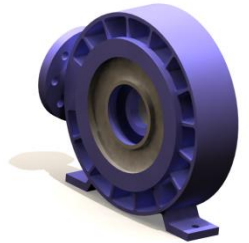
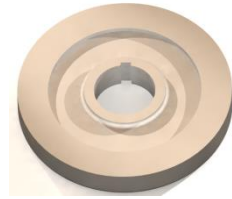
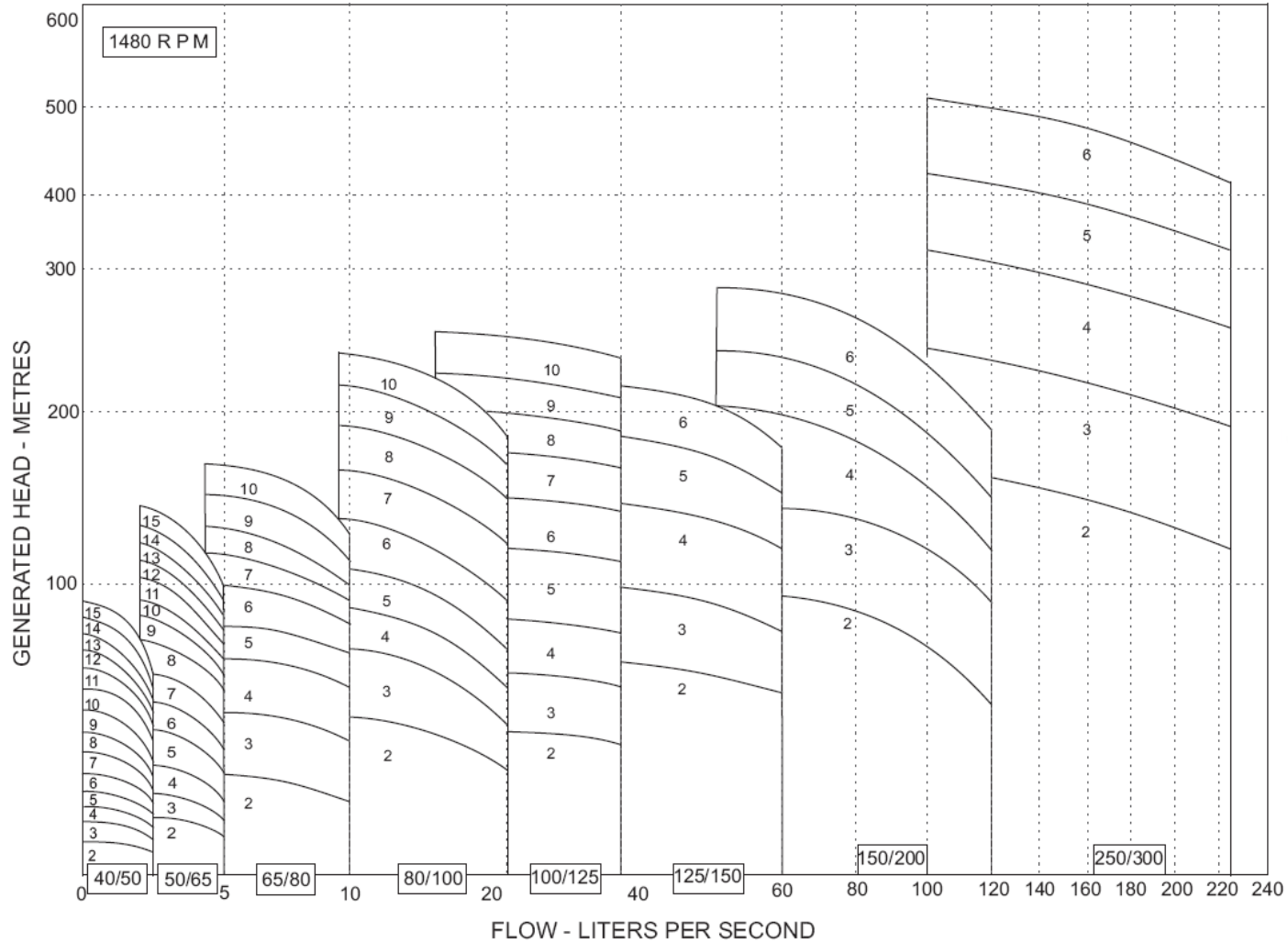


Multi-Stage Range Performance Chart

1480 RPM



"Curo" Multi-stage Range Chart "LTS" Models





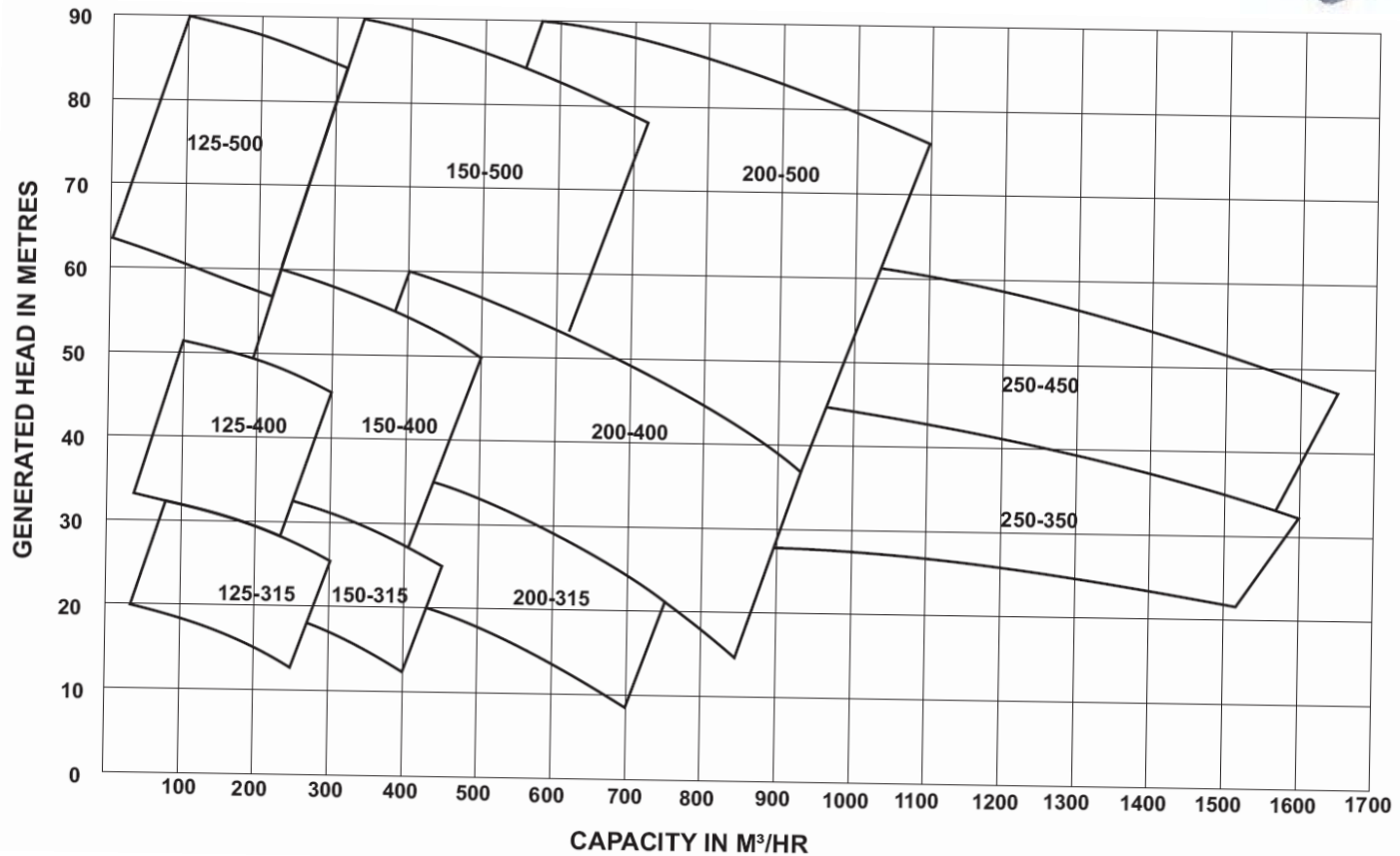
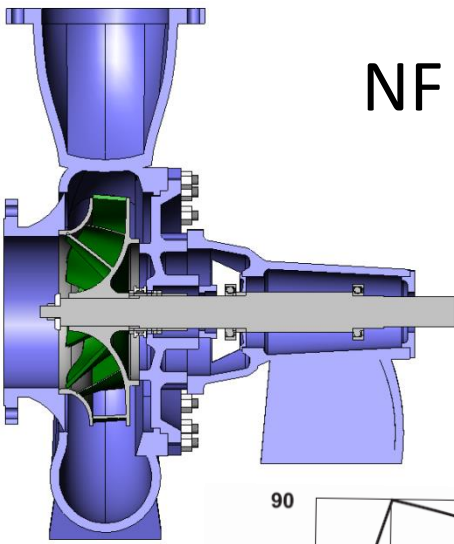
Curo Pumps (PTY) LTD

Our Focus Market – NF Range



- During the development of the Multi-stage Pumps, a French company approached Curo to develop large End suction pumps
- These pumps current are sort after due to there high flow capabilities
- Best operation 20m to 90m, various flows up to 1600 m³/h

NF End Suction Range Performance Chart 1480 RPM



NF 125 - 500

BEP

Curo – NF 125-500

Flow - 400 cubic
meters/hour

Head - 80 m

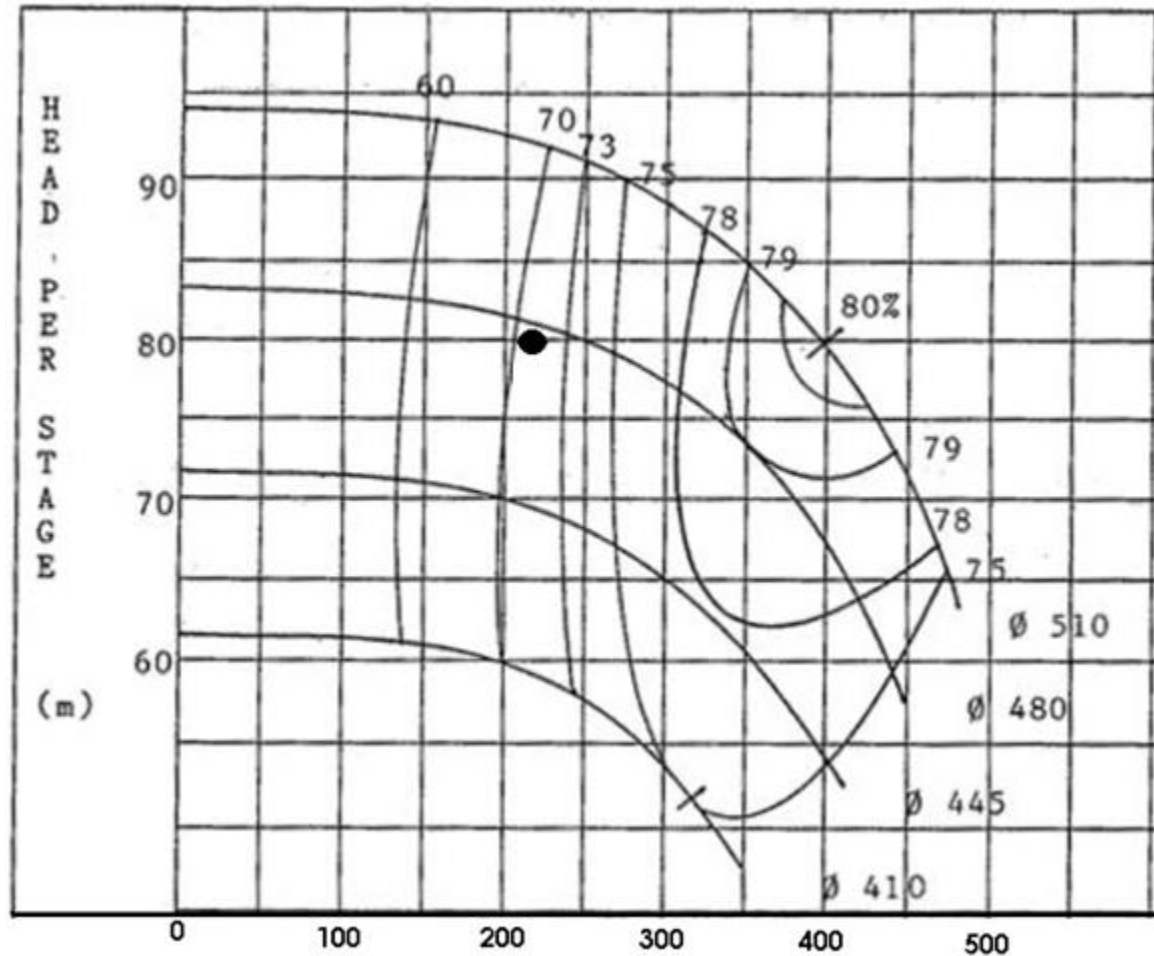
Eff – 80%

Opposition – 125-50 (2 STAGE)

Flow - 225 cubic
meters/hour

Head - 80 m

Eff – 80%



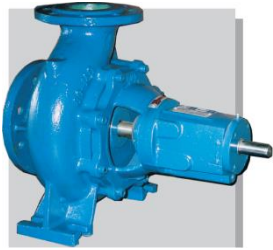


Curo Pumps (PTY) LTD

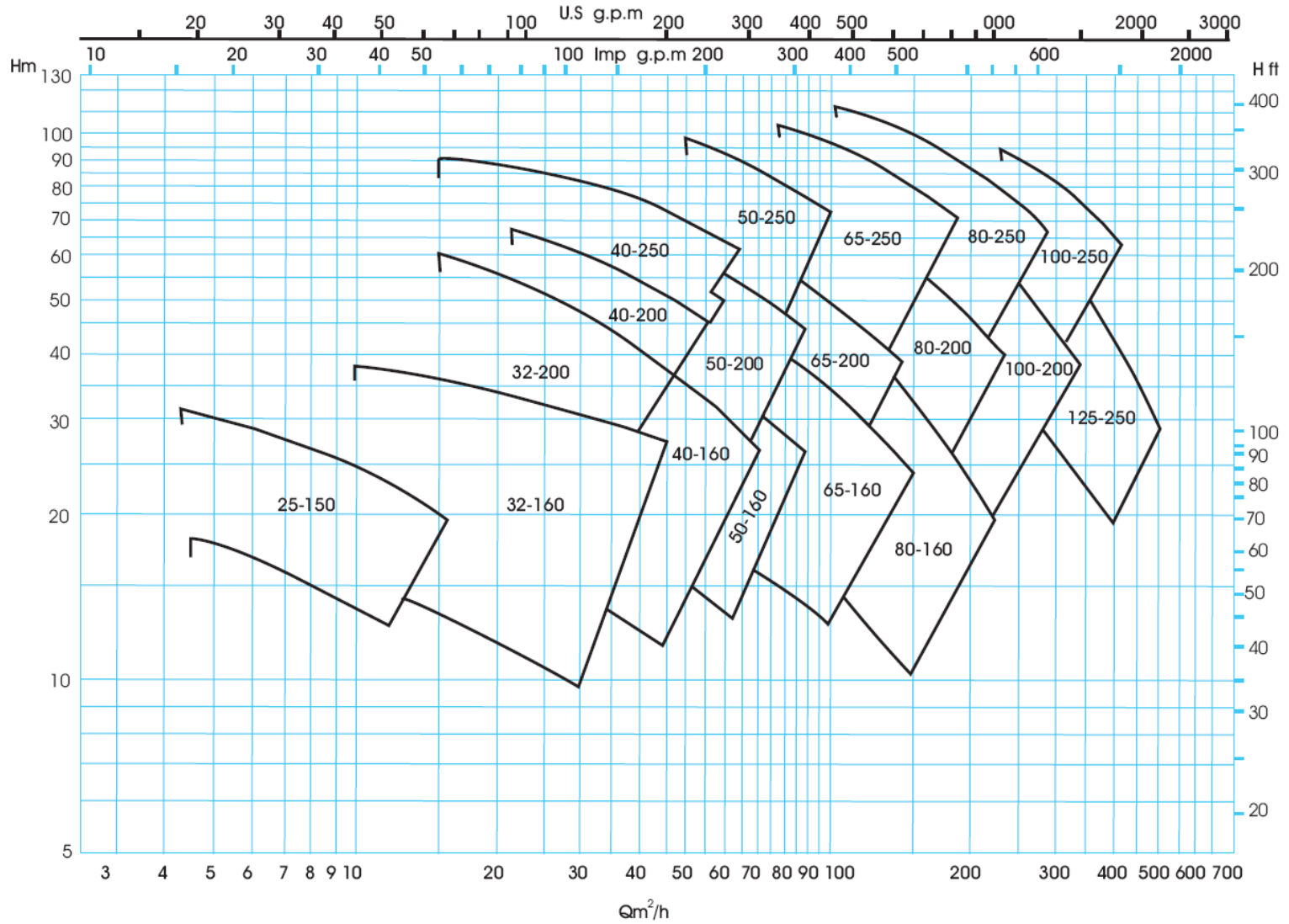
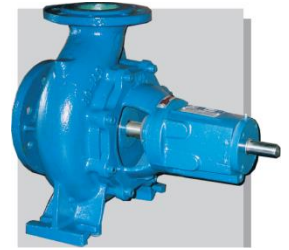
DL-DB End Suction Pumps

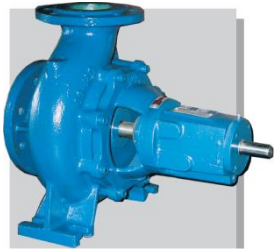


- Completes our End Suction range
- To Din standard, fully interchangeable with Rapid and KSB
- Best operation 20m to 90m, various flows up to 500 m³/h



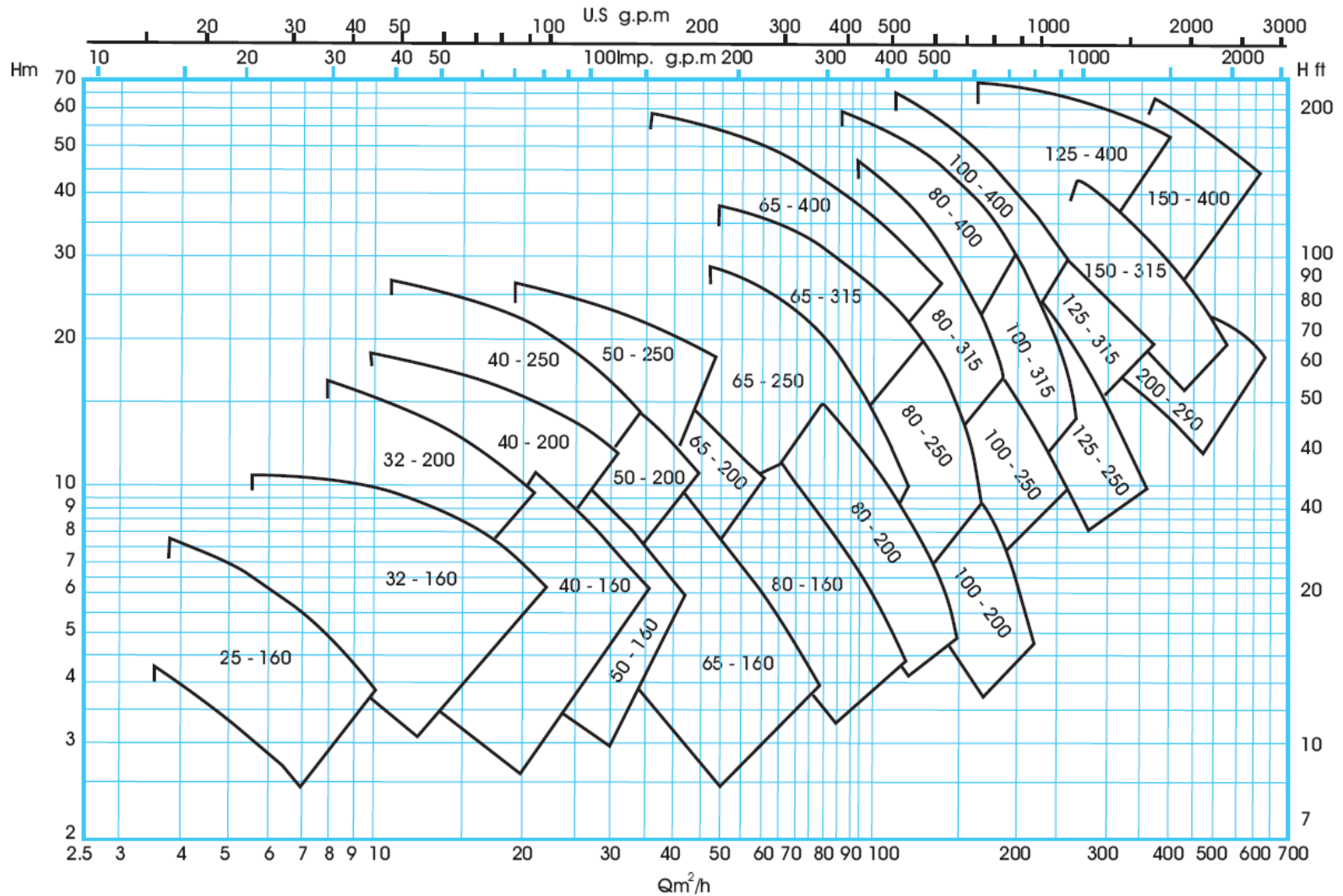
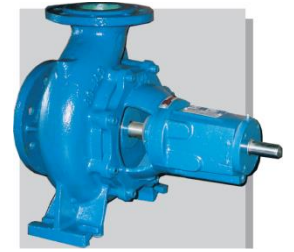
DL-DB Range Performance Chart 2900 RPM





DL-DB Range Performance Chart

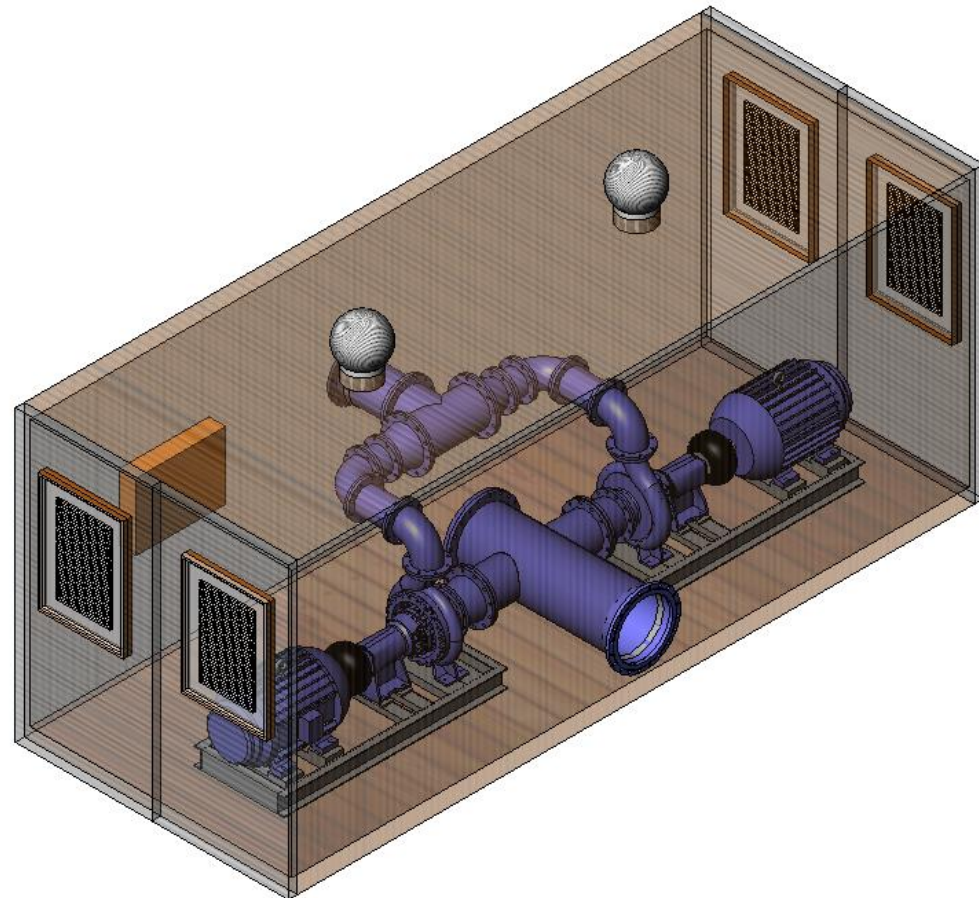
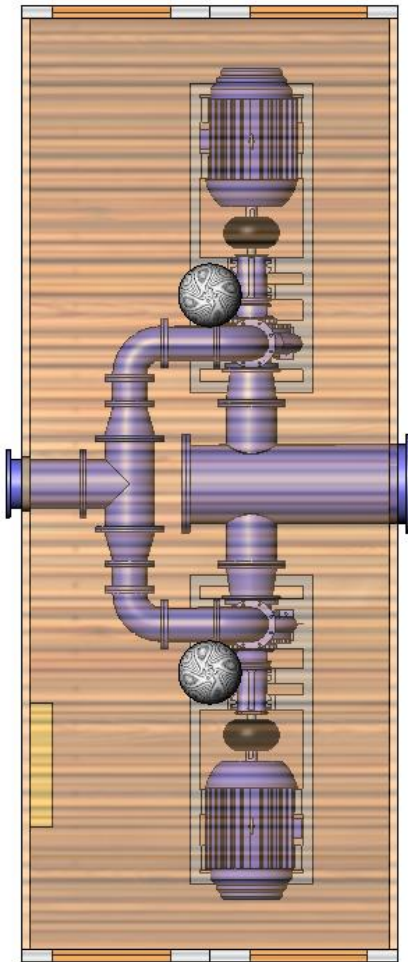
1480 RPM



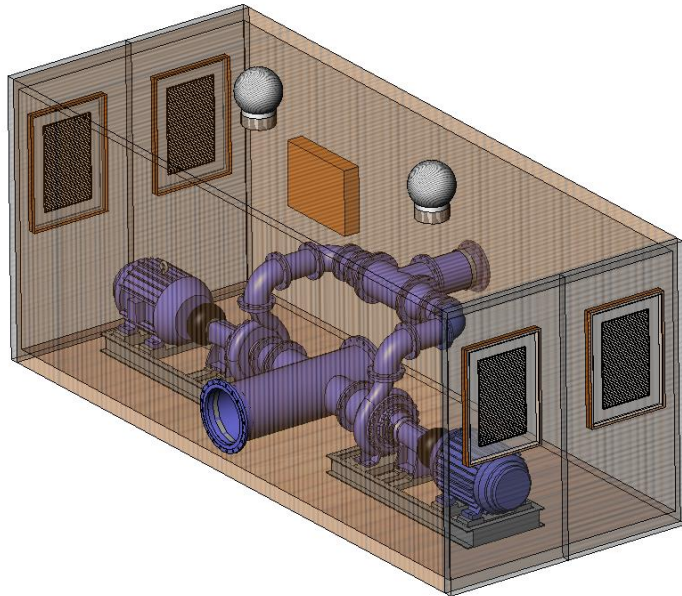
Technical Solutions

- Gland Service Solutions
- Fire System Solutions
- Negative Booster Pump Solutions

Pump Booster Stations



Pump Booster Stations



Ideal for mass movement of water, in area's where conventional brick pump stations are problematic

Available in 6m or 12m lengths

Designs made per customers specifications

Pump Booster Stations



ASIB FIRE PROTECTION



ASIB Approved Fire Pump Suppliers

Large Water flow – Low Head applications

Suitable pumps in our range – Large NF End Suction Pumps



Large Flows from $100\text{m}^3/\text{h}$ to $1600\text{m}^3/\text{h}$

Heads ranging from 20m to 80m



High Rise Buildings



Multi-stage take off Specialists

Diesel driven bare shaft pumps

Heads range up to 700 m
and flows up to 225 l/s

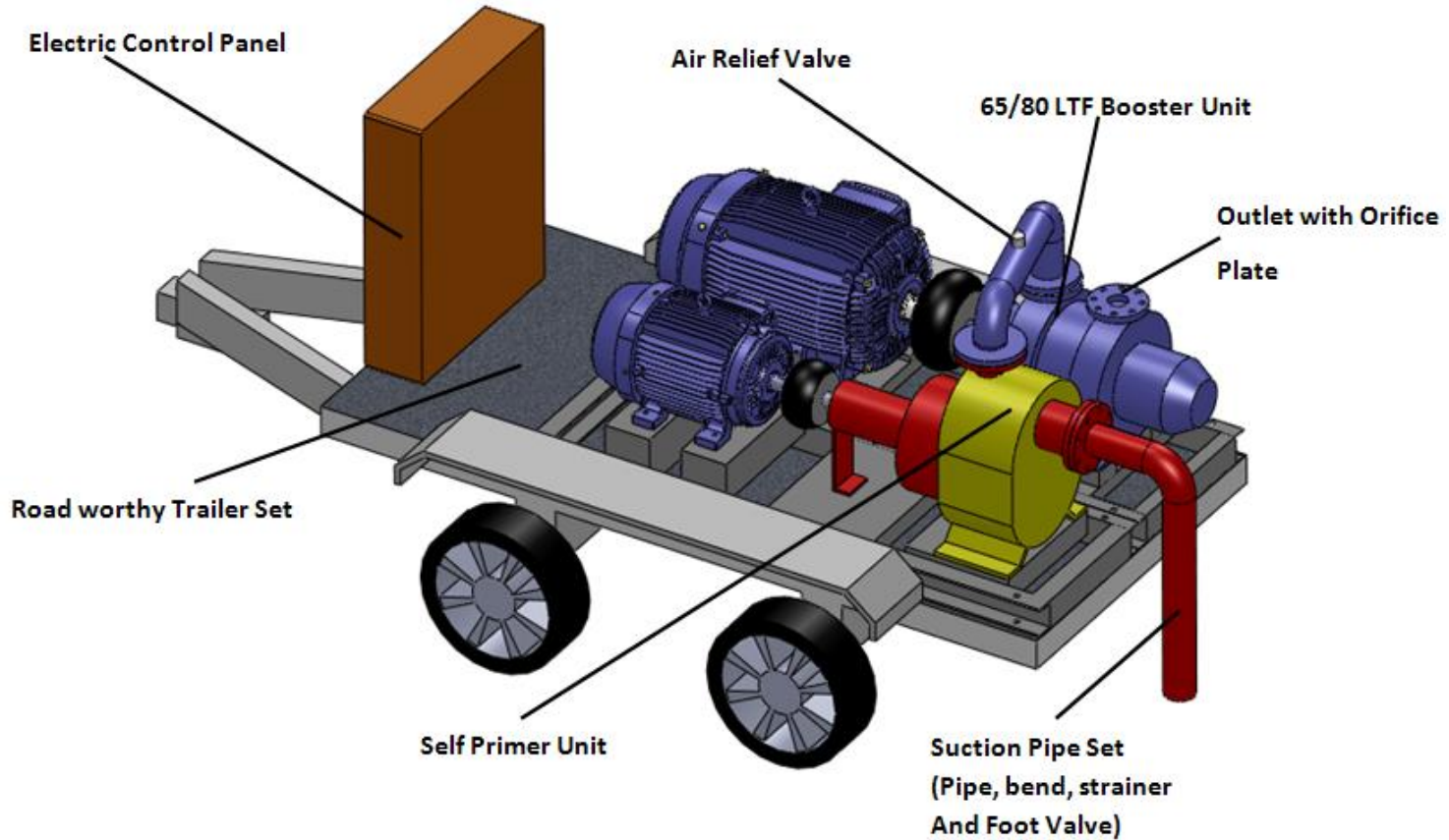
Sample of diesel driven pumps



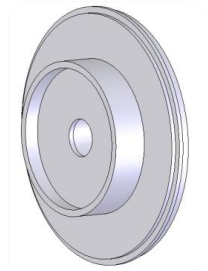
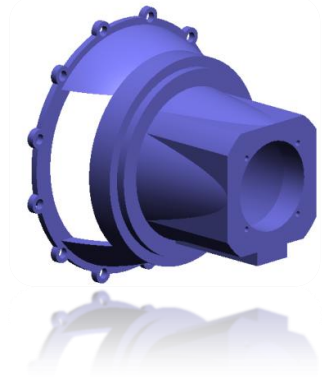
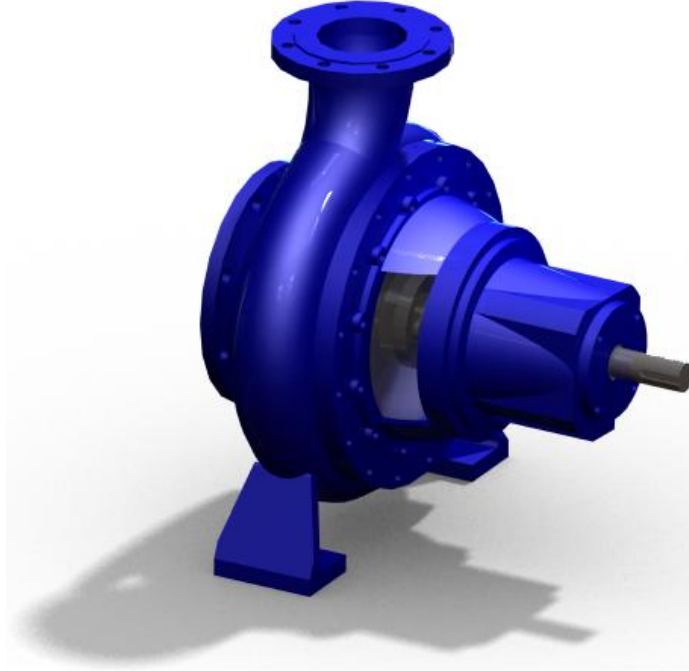
Booster Pump Solutions



Booster Pump Solutions



DL/DB End Suction Range

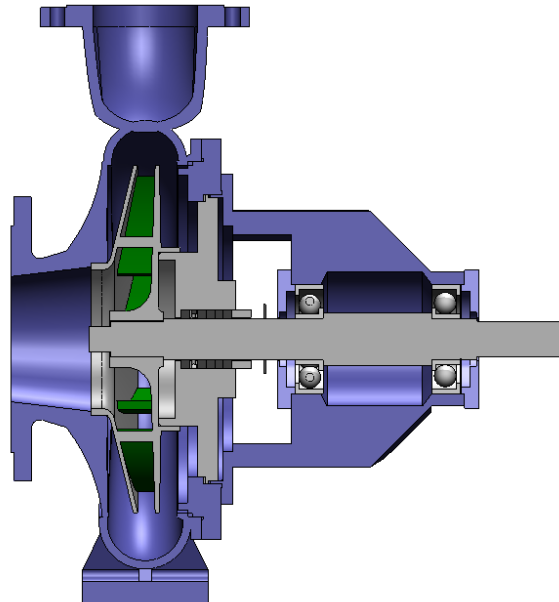


These Centrifugal End Suction Pumps are locally manufactured to the DIN Standard 24255.

The DL/DB Range are capable of producing flows up to $600 \frac{m^3}{h}$ and heads up to 100 metres. This range can operate in temperatures of $-10^{\circ}C$ to $105^{\circ}C$

The Standard materials used in construction are Cast Iron/ Cast Iron, Cast Iron/ Bronze and Stainless Steel/Stainless Steel.

The Shafts are sealed using either gland packing or mechanical seals. Grease lubricated bearings are standard in the DL/DB Range.

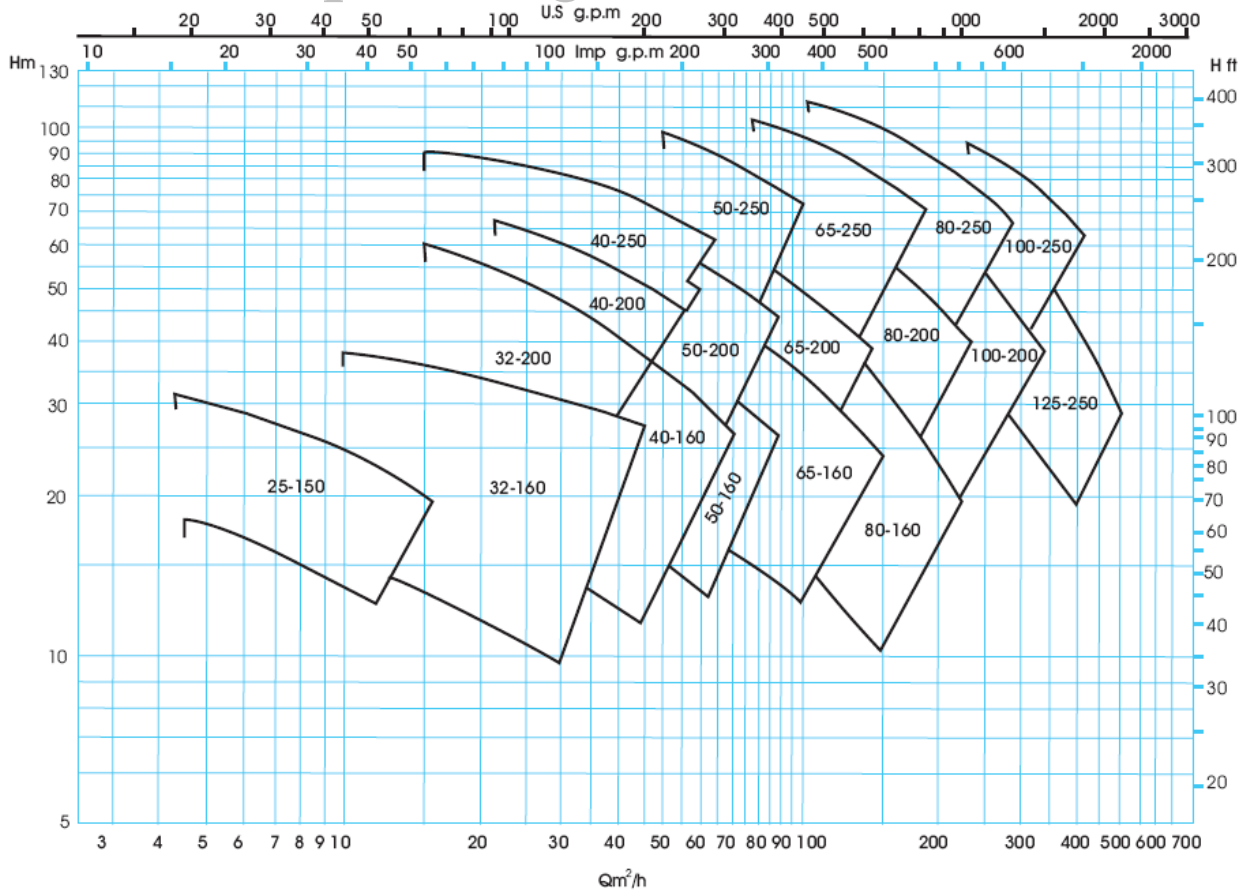


These Centrifugal End Suction Pumps have the following **standard arrangements**:

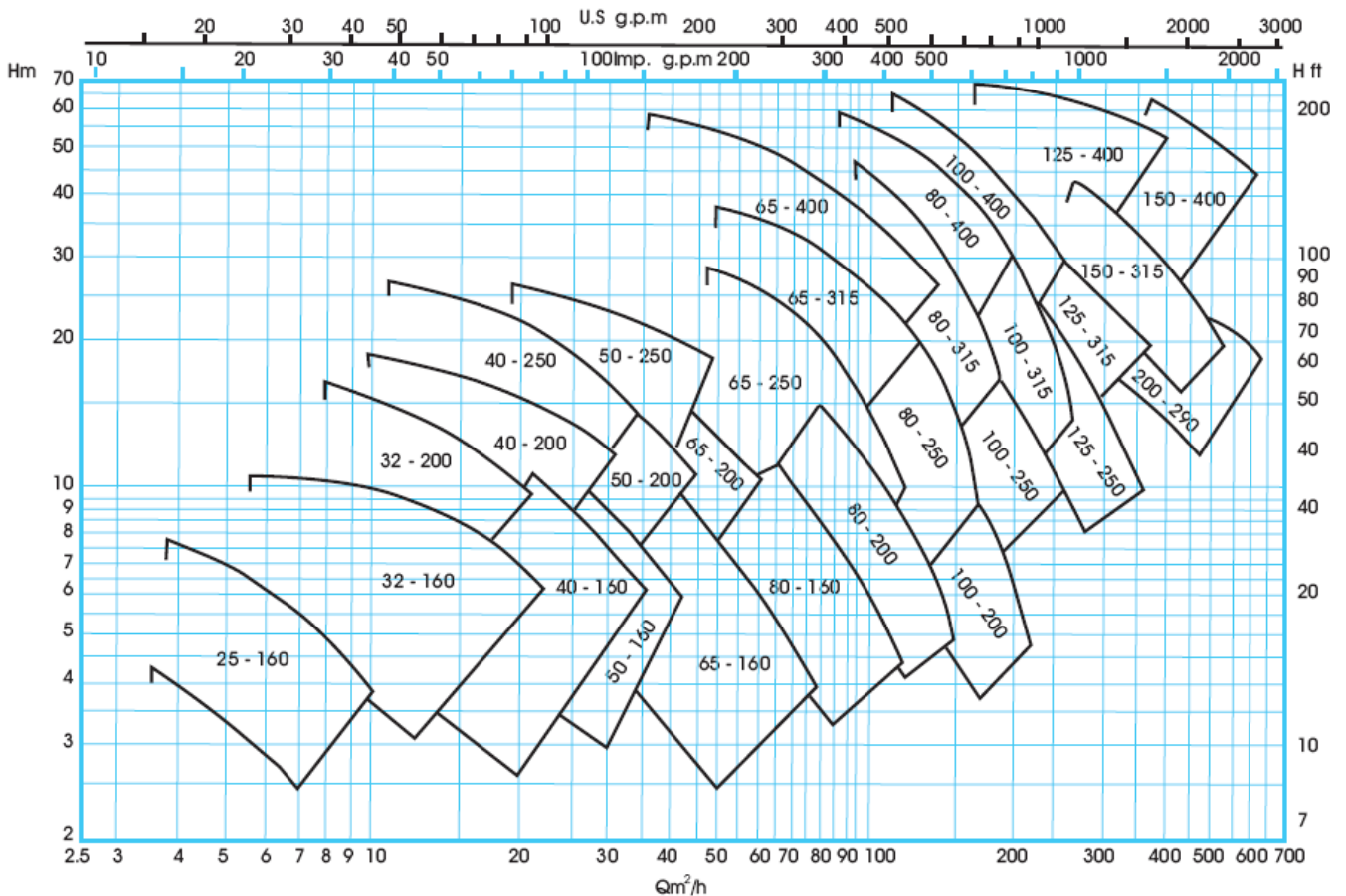
DL – Long-coupled, Back pull out, canter lever type bearing bracket or for additional support use the HSR bearing pedestal

DB – Closed coupled – compact, back pull-out

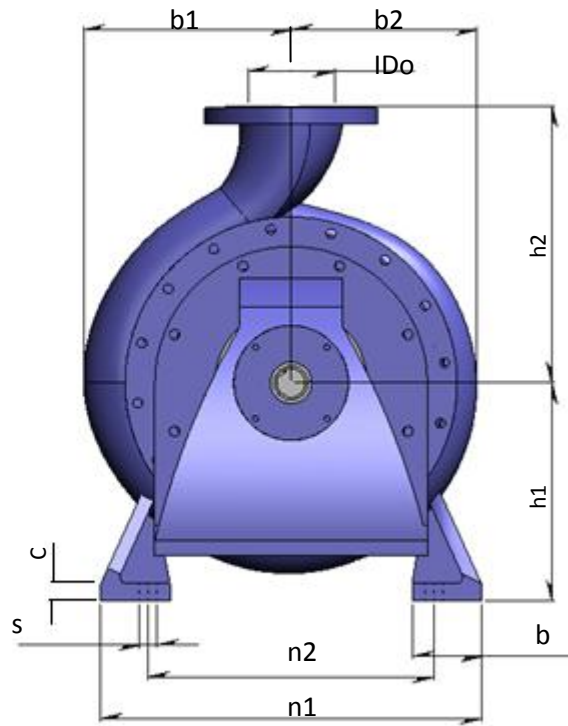
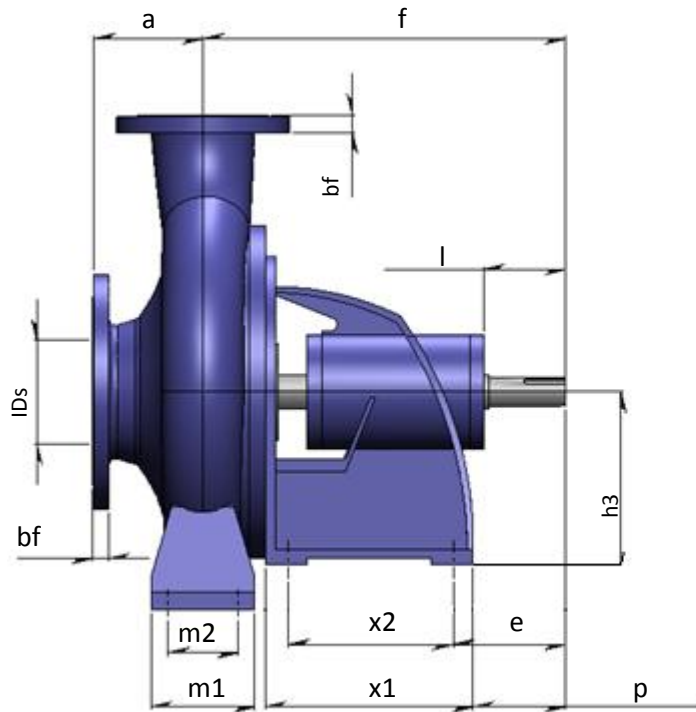
Models Operating At 2900 RPM



Models Operating At 1450 RPM

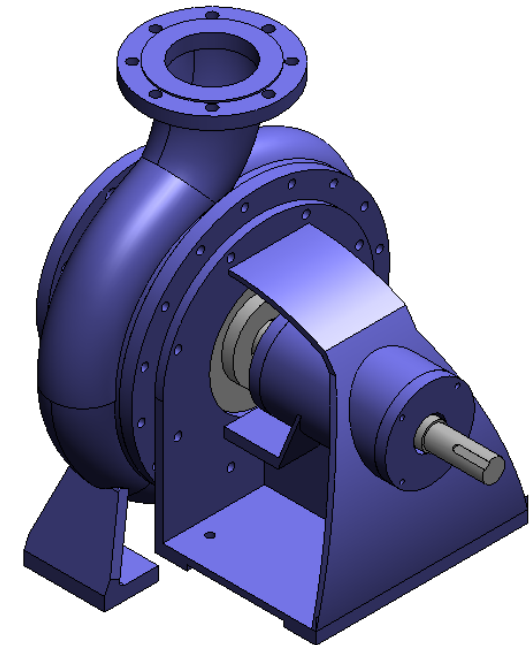
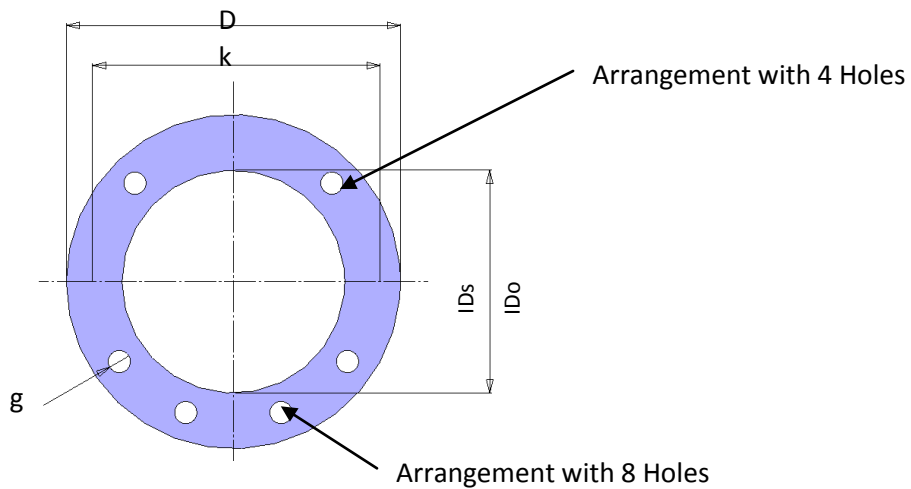


DL/DB HSR DIMENSION SHEET



Flange UP to ID 150 acc TO DIN 2533 BSS 4504

IDs IDo	D	bf	k	g	Number of Holes
25	115	16	85	14	4
32	140	16	100	18	4
40	150	16	110	18	4
50	165	18	125	18	4
65	185	18	145	18	4
80	200	20	160	18	4
100	220	20	180	18	8
125	250	22	210	18	8
150	285	22	240	22	8
200	340	24	295	22	12



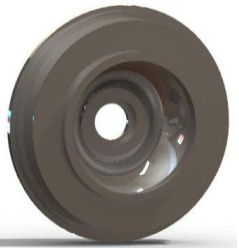
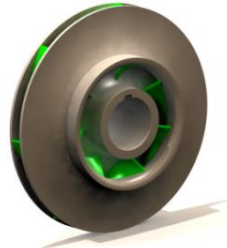
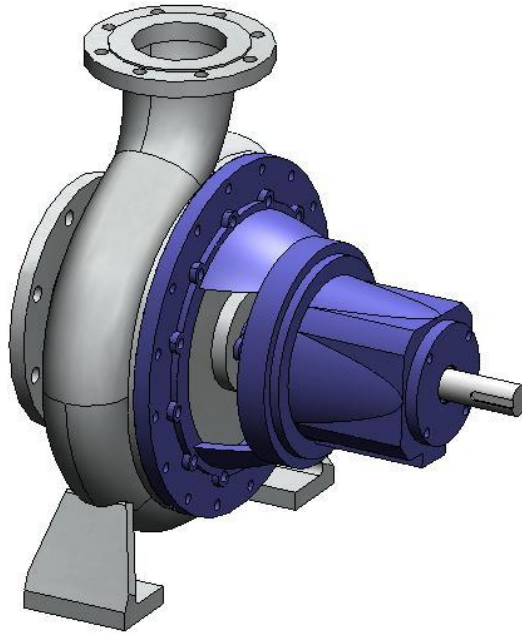
Pump Model	Delivery	Flange Suction	Pump Dimensions						Foot Dimensions											Bracket width	For screws	Shaft Dia & Key			Weight Kgs
			a	f	h ₁	h ₂	b ₁	b ₂	b	c	h ₃	e	p	m ₁	m ₂	n ₁	n ₂	x ₁	x ₂			m ₃	s	d	
DL	ID0	IDs																							
32-160	32	50	80	360	132	160	123	123	50	15	180	113	78	100	70	240	190	210	135	47	M12	24	50	8	42
32-200	32	50	80	360	160	180	124	130	50	15	180	113	78	100	70	240	190	210	135	47	M12	24	50	8	43
40-160	40	65	80	360	132	160	123	123	50	15	180	113	78	100	70	240	190	210	135	47	M12	24	50	8	44
40-200	40	65	100	360	160	180	125	135	50	15	180	113	78	100	70	265	212	210	135	47	M12	24	50	8	46
40-250	40	65	100	360	180	225	150	156	65	15	180	113	78	125	95	320	250	210	135	47	M12	24	50	8	54
50-160	50	65	100	360	160	180	125	130	50	15	180	113	78	100	70	265	212	210	135	47	M12	24	50	8	46
50-200	50	65	100	360	160	200	133	145	50	15	180	113	78	100	70	265	212	210	135	47	M12	24	50	8	47
50-250	50	65	100	360	180	225	156	169	65	15	180	113	78	125	95	320	250	210	135	47	M12	24	50	8	56
65-160	65	80	100	360	160	200	133	162	65	15	180	113	78	125	95	280	212	210	135	47	M12	24	50	8	49
65-200	65	80	100	360	180	225	148	170	65	15	180	113	78	125	95	320	250	210	135	47	M12	24	50	8	51
65-250	65	80	100	470	200	250	164	184	80	18	205	150	105	160	120	360	280	280	190	47	M16	32	80	10	89
65-315	65	80	125	470	225	280	202	219	80	25	205	150	105	160	120	400	315	280	190	47	M16	32	80	10	112
65-400	65	80	125	470	250	355	239	255	80	25	205	150	105	160	120	420	335	280	190	47	M16	32	80	10	137
80-160	80	100	125	360	180	225	136	170	65	15	180	113	78	125	95	320	250	210	135	47	M12	24	50	8	55
80-200	80	100	125	470	180	250	163	188	65	18	205	150	105	125	95	345	280	280	190	47	M12	32	80	10	91
80-250	80	100	125	470	200	280	182	208	80	18	205	150	105	160	120	400	315	280	190	47	M16	32	80	10	98
80-315	80	100	125	470	250	315	210	231	80	25	205	150	105	160	120	400	315	280	190	47	M16	32	80	10	119
80-400	80	100	125	530	280	355	246	265	80	25	250	175	120	160	120	435	355	160	120	52	M16	42	110	12	137
100-200	100	125	125	470	200	280	165	203	80	18	205	150	105	160	120	360	280	280	190	47	M16	32	80	10	102
100-250	100	125	140	470	225	280	189	224	80	18	205	150	105	160	120	400	315	280	190	47	M16	32	80	10	111
100-315	100	125	140	470	250	315	220	250	80	25	205	150	105	160	120	400	315	280	190	47	M16	32	80	10	122
100-400	100	125	140	530	280	355	256	272	100	27	250	175	120	200	150	500	400	200	150	52	M20	42	110	12	152
125-250	125	150	140	470	250	355	212	255	80	18	205	150	105	160	120	400	315	280	190	47	M16	32	80	10	119
125-315	125	150	140	530	315	360	226	252	100	27	250	175	120	200	150	550	450	304	180	52	M20	42	110	12	207
125-400	125	150	140	530	315	400	264	283	100	27	250	175	120	200	150	550	450	304	180	52	M20	42	110	12	237
150-315	150	200	160	530	280	400	239	271	100	27	250	175	120	200	150	500	450	304	180	52	M20	42	110	12	172
150-400	150	200	160	530	315	450	277	305	100	27	250	175	120	200	150	550	450	304	180	52	M20	42	110	12	258
150-400x	150	200	160	530	315	450	331	292	100	27	250	175	120	200	140	700	560	304	180	52	M20	42	110	12	275
200-290	195	200	182	530	354	425	240	330	100	27	250	175	120	220	150	550	450	304	180	52	M20	42	110	12	202

Chemical Pumps: DL/DB Range

The DL/DB Range are capable of producing flows up to $500 \frac{m^3}{h}$ and heads up to 100 metres. This range can operate in temperatures of $-10^{\circ}C$ to $105^{\circ}C$

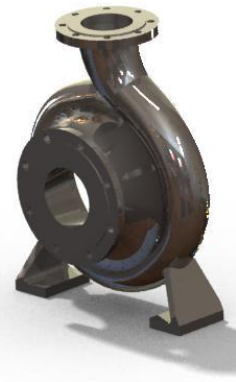
The Shafts are sealed using either gland packing or mechanical seals. Grease lubricated bearings are standard in the DL/DB Range.

Volute, Gland or Seal Plate and Impeller cast in Stainless



CURO Chemical Range can be constructed from the following materials

- 316 SS – Stainless Steel
- A-20 – Carpenter Stainless
- CD4MCu – Stainless Steel
- Alloy 2205 – Stainless Steel
- H-B – Hastelloy Alloy – B
- H-C – Hastelloy Alloy – C
- Ti – Titanium Unalloyed

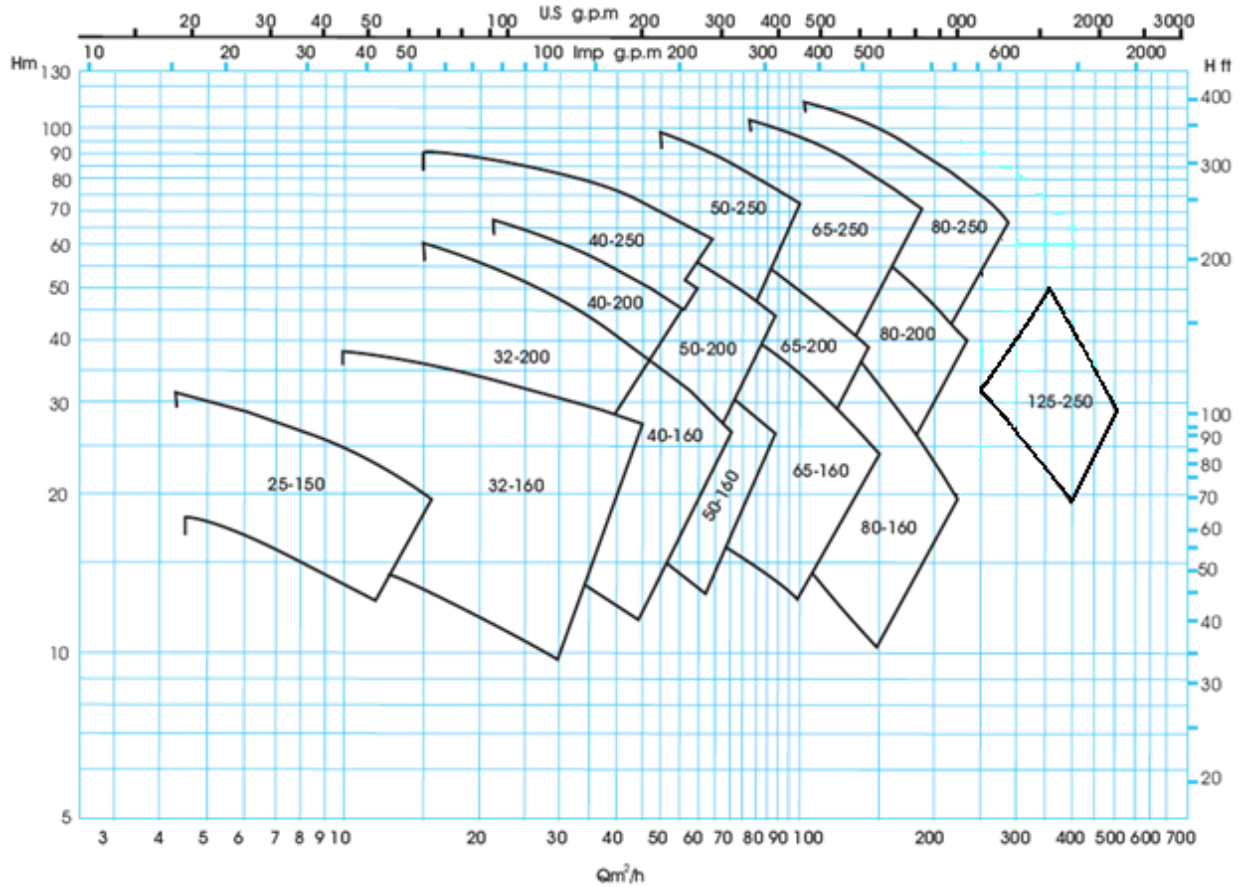


These Centrifugal End Suction Pumps have the following **standard arrangements**:

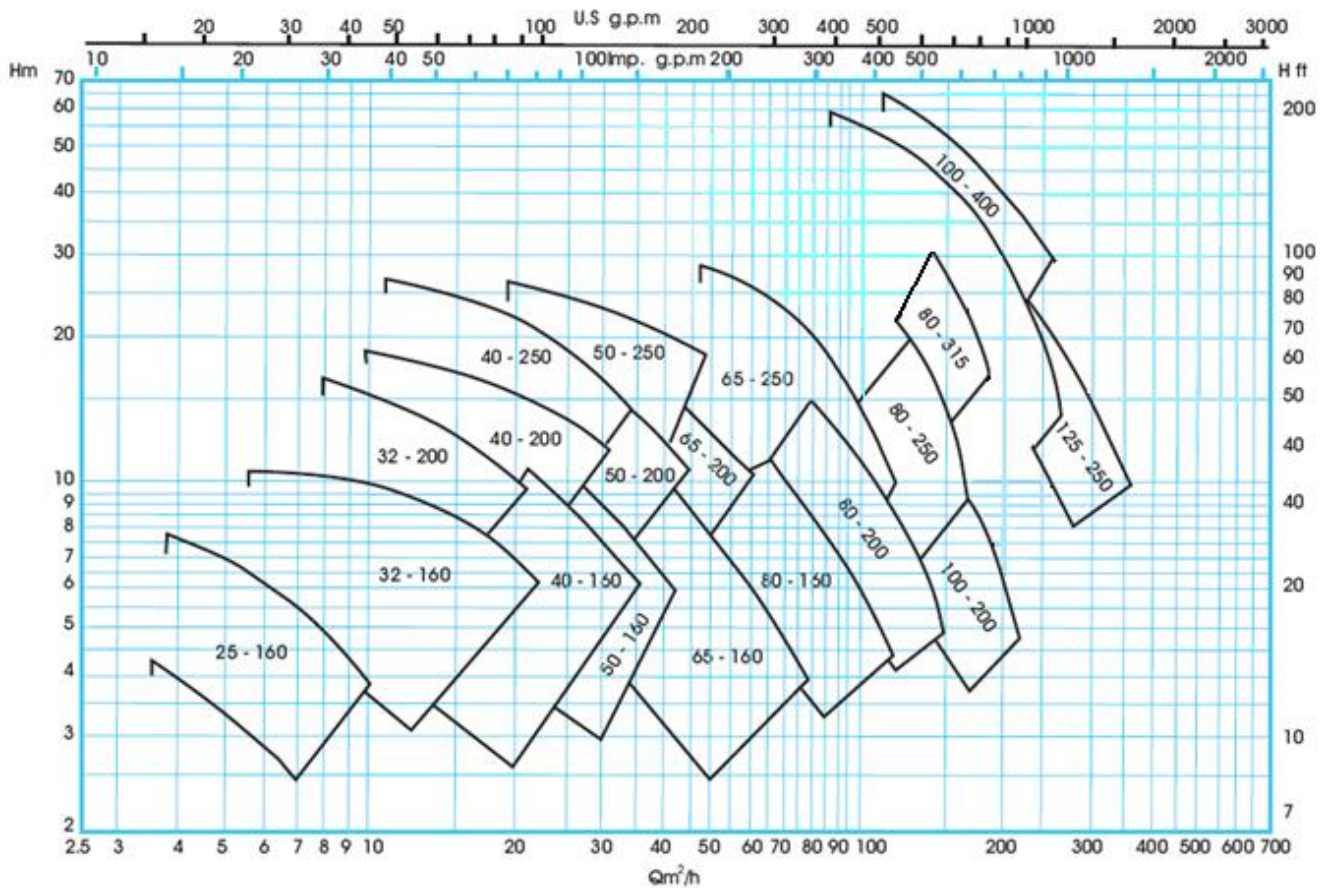
DL – Long-coupled, Back pull out, canter lever type bearing bracket or for additional support use the HSR bearing pedestal

DB – Closed coupled – compact, back pull-out

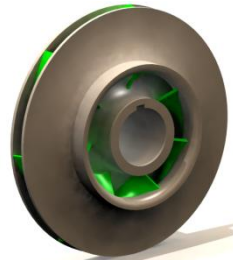
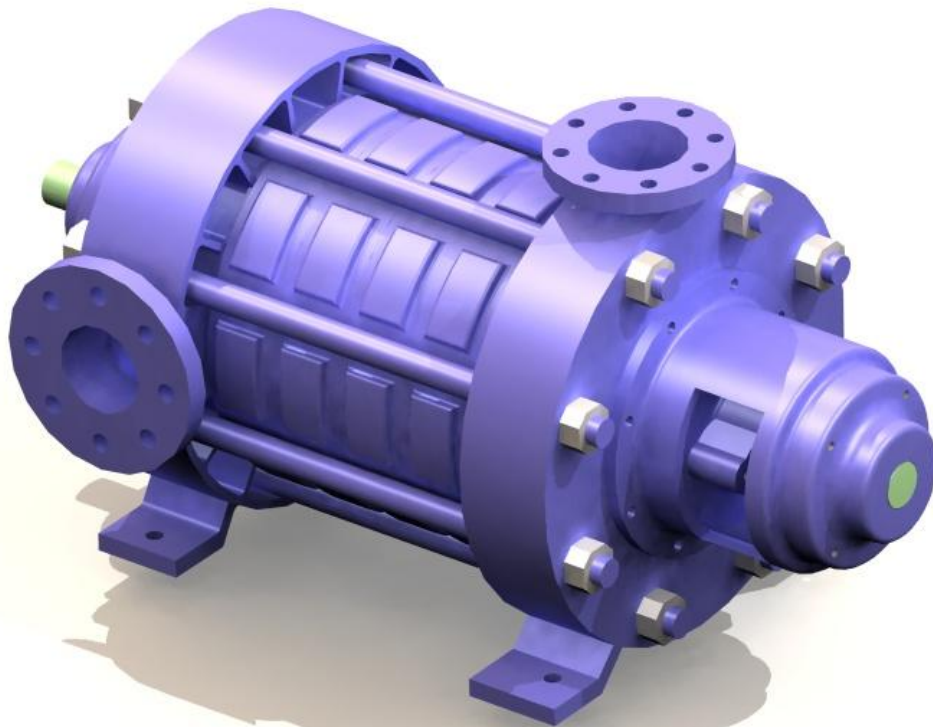
Current Stainless Steel Models Operating at 2900 Rpm



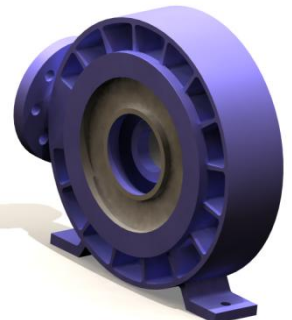
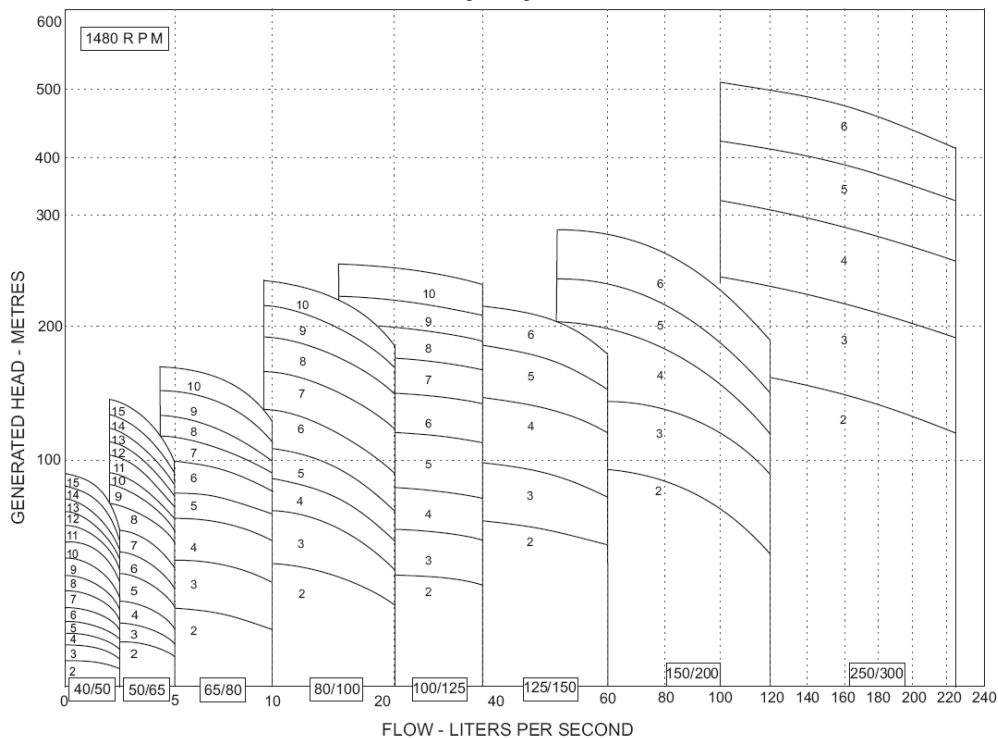
Current Stainless Steel Models Operating at 1450 Rpm

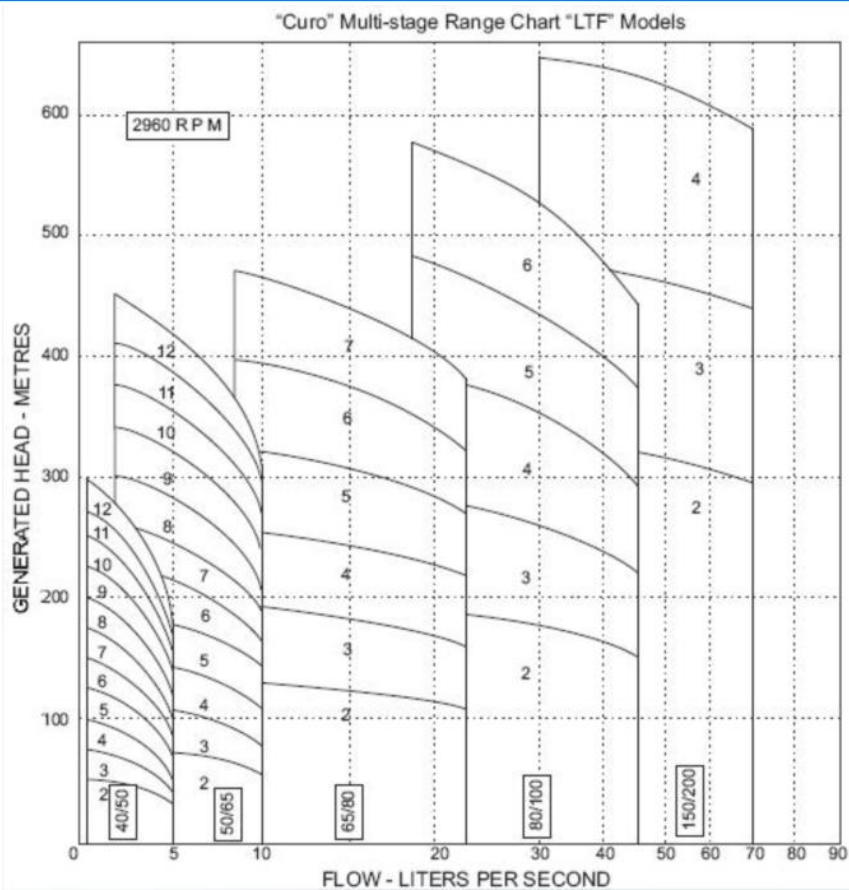


Multi-stage Range



"Curo" Multi-stage Range Chart "LTS" Models

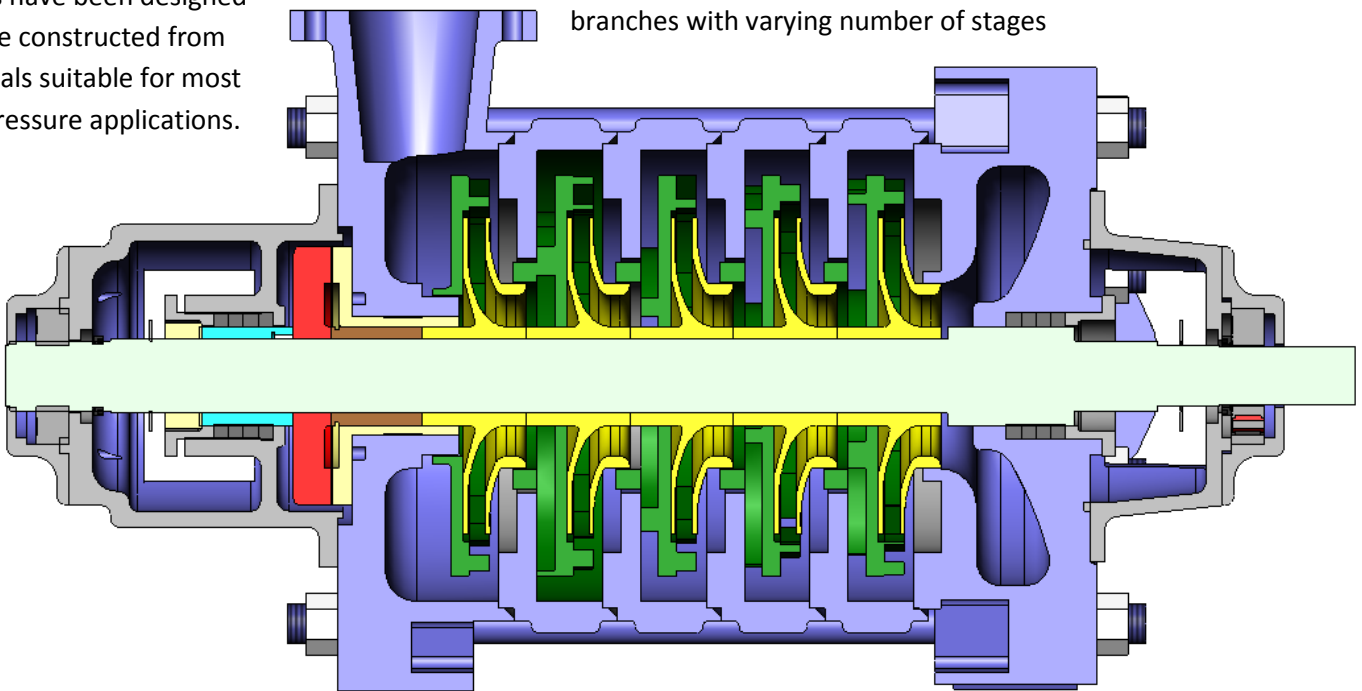




Sectional View of typical Multi-stage Range

These locally manufactured pumps have been designed and are constructed from materials suitable for most high pressure applications.

The range consists of the LTF and LTS models, all of which are available in different sizes of inlet and outlet branches with varying number of stages



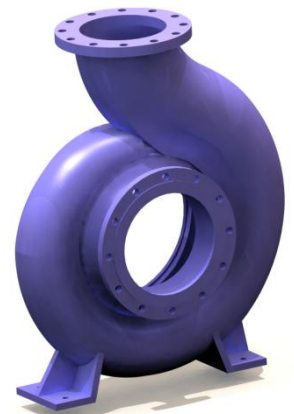
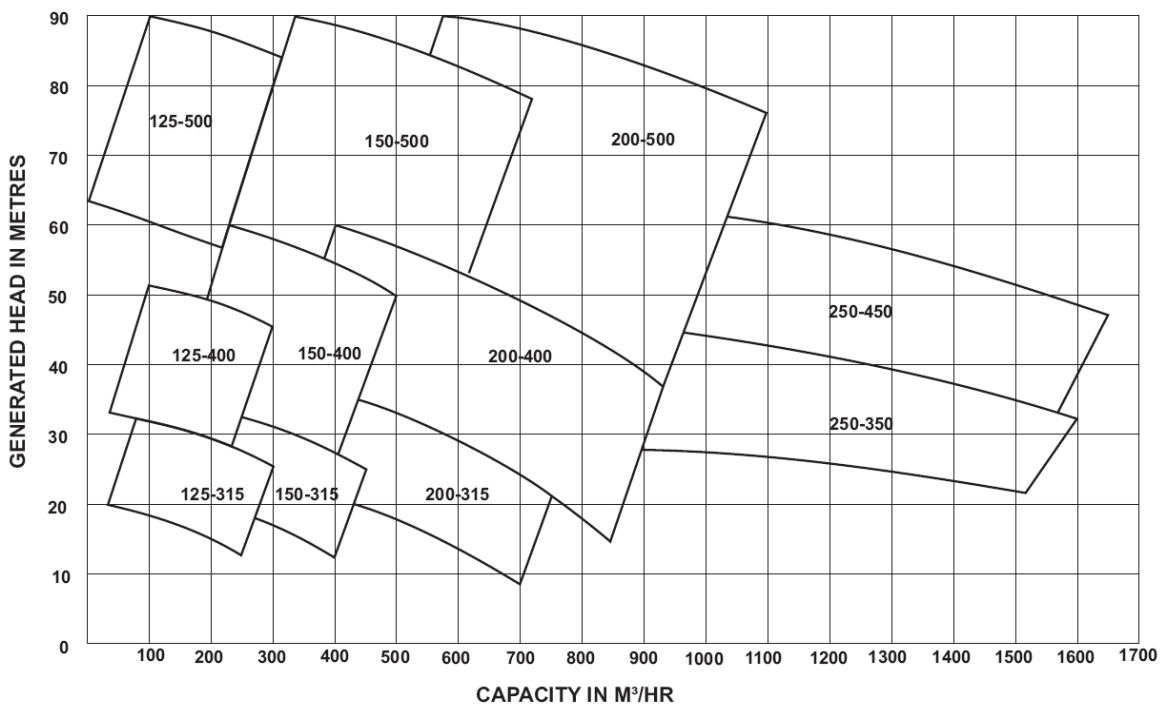
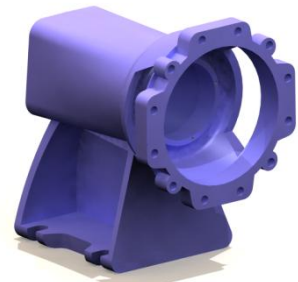
Generally the LFT models are used when direct coupled is required to three phase motors running at 2 pole motor speed (approximately 2960 RPM) and LTS models are used when direct coupling is required to three phase motors running at 4 pole motor speed (approximately 1480 RPM)

However both models are suitable for operation at various other shaft speeds e.g. when direct coupled to diesel engines or when driven via speed reduction gearboxes.

The LTF and LTS models are designed to cover heads varying from approximately 40 meters to 600 meters, flows from 2 litre/sec to 250 litre/sec

These horizontal, high pressure centrifugal pumps are of the multi-ring section design. All pumps are built up from any number of stages held between the suction cover and Delivery Cover by body bolts. Sealing of casing components is by means of 'O' Rings. Pump rotation is clockwise when viewed from drive end.

NF END SUCTION RANGE



Sectional View NF END SUCTION RANGE

These locally manufactured pumps have been designed and are constructed from materials suitable for most high flow and head applications

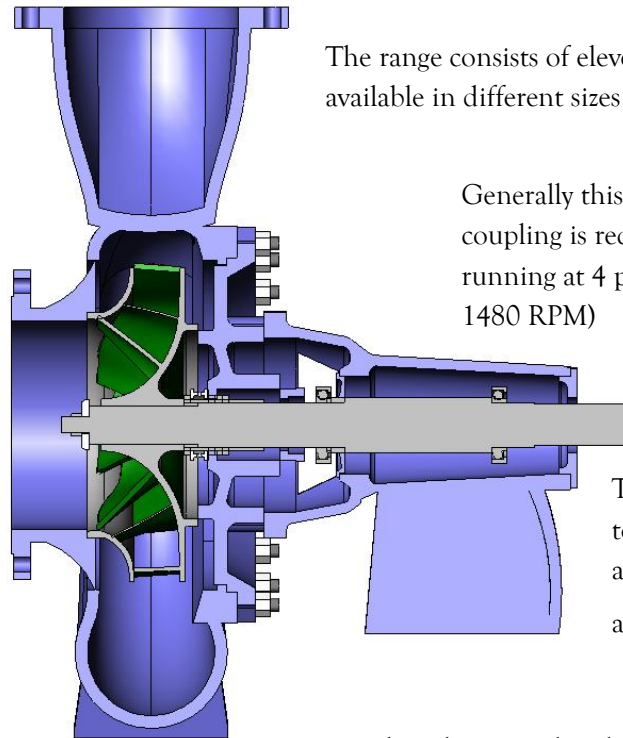
However, they are suitable for operation at various other shaft speeds e.g. when direct coupled to diesel engines or when driven via speed reduction gearboxes, or belt driven

All pumps are robust construction; the diameter of the drive shaft is 60 mm

The range consists of eleven models, all of which are available in different sizes of inlet and outlet branches

Generally this range of pumps is used when direct coupling is required to three phase motors running at 4 pole motor speed (approximately 1480 RPM)

This range of pumps has been designed to cover heads varying from approximately 15 metres to 90 metres, and flows from $150 \frac{m^3}{hr}$ to $1600 \frac{m^3}{hr}$



These horizontal end suction centrifugal pumps are of the back pull out design. Pump rotation is clockwise when view from the drive end.

All end suction pumps are fitted with grease lubricated ball and angular contact bearings

Standard materials of construction are cast iron casing components, cast iron or bronze impellers and high tensile steel shafts.

For all applications requiring special materials of construction consult CURO PUMPS

