



CENTRIFUGAL PUMPS

PERFORMANCE AND TECHNICAL DATA

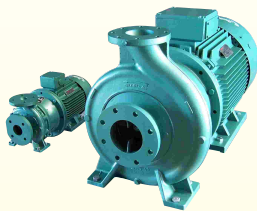
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(Click on selection below for direct link to detailed information)



ISO Sovereign...

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- Dimension Data
- Miscellaneous Pump Data and Parts



Star-Line Motorpumps...

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- Selection Chart [1450](#) [2900](#) rpm
- Dimension Data
- Miscellaneous Pump Data and Parts



ISO-PRO Industrial...

- Specification Leaflet
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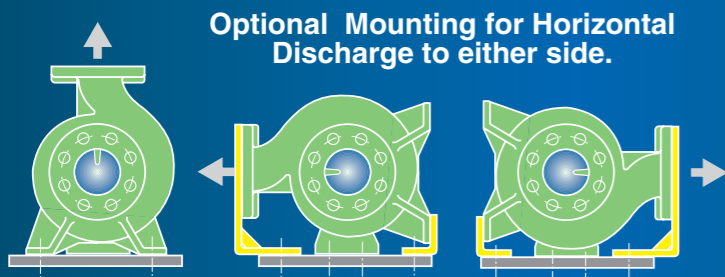


Transfer Pumps...

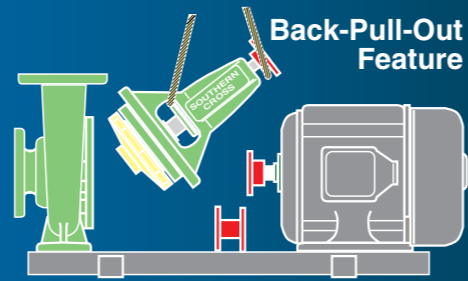
- Specification Leaflet



“ISO SOVEREIGN” CENTRIFUGAL PUMPS



Optional Mounting for Horizontal Discharge to either side.



Back-Pull-Out Feature

“ISO Sovereign” PUMP MOUNTING

Normal horizontal mounting gives vertical centre-line discharge, however any angle from horizontal to vertical is acceptable. A feature of the Southern Cross “ISO Sovereign” range of pumps is the ability to mount the body sideways for horizontal discharge to either side. This is done using two simple mounting brackets which align with the same mounting holes as used for normal foot mounting so that no base modifications are necessary to change the pump discharge from vertical to horizontal.

“ISO Sovereign” PERFORMANCE TESTING

Where guaranteed pump performance is required Southern Cross will perform Works Certified or Works Witnessed Tests using the latest computer performance monitoring equipment installed in the Southern Cross Pump Test Laboratory.

BACK PULL OUT

When a spacer coupling is used pump body, suction and discharge lines, and electric motor remain undisturbed during servicing. This saves valuable time and eliminates pump and motor realignment.



As Tyco policy is one of constant improvement, we reserve the right to make specification changes without notice and without incurring liability.

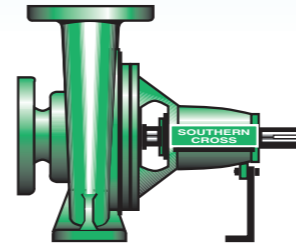
Distributed by...

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A division of **tyco** Flow Control Pacific Pty Ltd
A.B.N. 83 000 922 690



“ISO SOVEREIGN” CENTRIFUGAL PUMPS



AUSTRALIAN MADE TO ISO 2858 STANDARD

APPLICATIONS

- Designed for efficient and reliable general purpose water transfer in industry, building services and irrigation.

FEATURES

- Superior hydraulic design & manufacturing methods produce significantly higher efficiencies for lower running costs and reduced maintenance.
- Australian designed and manufactured.
- Up to 250 litres per second discharge.
- World-wide service and backup.
- 32 to 200mm discharge.
- Wide range of options.
- Heads to 160 metres.



**...setting the
standard for pump
performance and quality...**

Southern Cross

**“ISO SOVEREIGN”
CENTRIFUGAL PUMPS**

Australian made
to...
ISO 2858
International Standard

*...setting the standard
for pump performance
and quality...*

REDUCED RUNNING COSTS

Superior hydraulic design and high technology manufacturing methods produce significantly higher efficiencies for less power consumption and minimum maintenance...features which guarantee Southern Cross “ISO Sovereign” Pump users continuing savings in all applications.

INTERNATIONAL STANDARD

Conforming with ISO2858 Standard means dimensional interchangeability with other makes of pumps, manufactured to the same international standard, however because of design superiority Southern Cross “ISO Sovereign” Pumps exceed the performance standard.

GENERAL-PURPOSE PUMPS

Southern Cross “ISO Sovereign” Pumps offer top efficiency and reliability for a full range of general purpose water transfer applications in industry, building services and irrigation.

“ISO Sovereign” FEATURES

These Australian designed and manufactured Southern Cross “ISO Sovereign” Pumps are readily available in a full range of sizes, backed not only by an Australia wide service and spare parts network, but with an extensive group of international stock and service centres.

PUMP CONSTRUCTION FEATURES...

SUPERIOR HYDRAULIC DESIGN FOR GREATER PERFORMANCE AND REDUCED RUNNING COSTS

HEAVY DUTY SEALED FOR LIFE GREASE PACKED BEARINGS

ROBUST CAST IRON BEARING HOUSING

LIP TYPE SEALS FOR BEARING PROTECTION

REMOVABLE PUMP MOUNTING FOOT

SEPARATE PUMP BACKPLATE FOR EASY PUMP SERVICING

WATER SLINGER

HEAVY DUTY STAINLESS STEEL SHAFT FOR MINIMUM DEFLECTION AT HIGH SPEEDS

REUSABLE “O” RING SEAL BETWEEN PUMP VOLUTE AND BACKPLATE

STURDY MOUNTING FEET CAST INTEGRAL WITH PUMP BODY

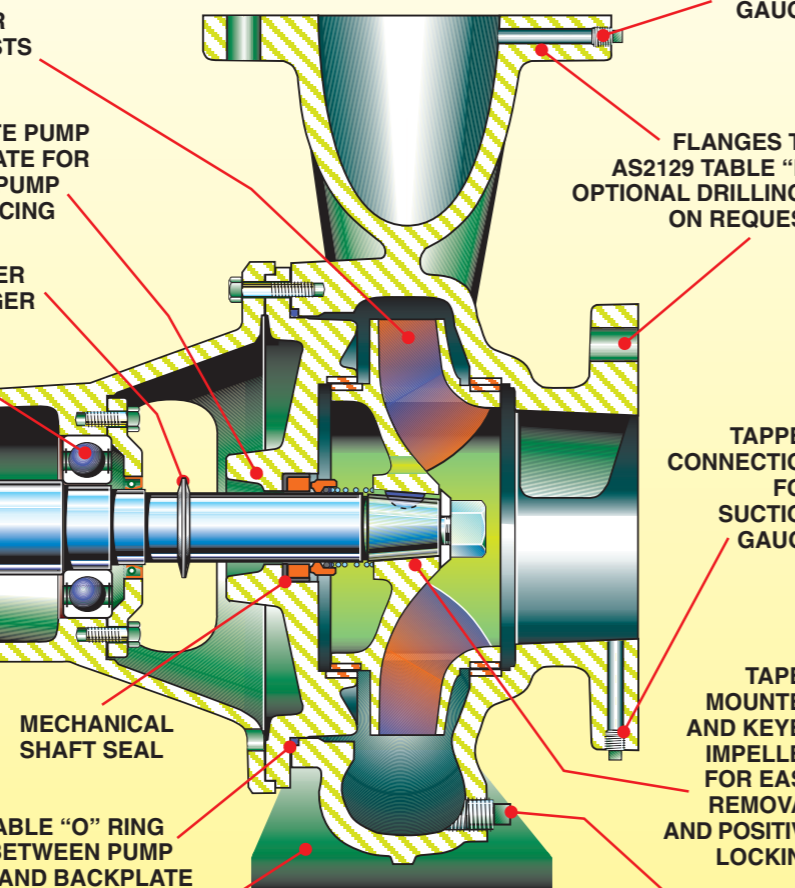
TAPPED CONNECTION FOR PRESSURE GAUGE

FLANGES TO AS2129 TABLE “E” OPTIONAL DRILLINGS ON REQUEST

TAPPED CONNECTION FOR SUCTION GAUGE

TAPER MOUNTED AND KEYPED IMPELLER FOR EASY REMOVAL AND POSITIVE LOCKING

TAPPED AND PLUGGED VOLUTE DRAIN HOLE



**“ISO SOVEREIGN”
CENTRIFUGAL PUMPS**

Special design features of Southern Cross “ISO Sovereign” Pumps include taper mounted and keyed impeller for easy removal from shaft during servicing and positive locking during operation; heavy duty shaft with large capacity impeller end bearing for safe operation at high speed; AS1830/T260 cast iron volute for added safety; reusable “O” ring body seal; minimum number of parts for full range (only four shaft modules) reduces spare parts stocking; hydraulically and dynamically balanced impellers; and highly efficient suction performance from double curvature impeller vanes.

● STANDARD FEATURES

Type 431 stainless steel shaft; rugged cast iron volute with integral suction and discharge flanges and mounting feet; pressure rated to 1600kPa (160 metres head); cast iron impeller and backplate; stainless steel impeller nut; cast iron bearing housing with sealed for life grease packed bearings (standard sizes readily available from most bearing suppliers); lip type shaft seals to protect bearings; single mechanical seal.

● OPTIONAL MATERIALS

Zinc-free bronze impeller, type 316 stainless steel shaft and Molybond coating.

● OPTIONAL EXTRAS

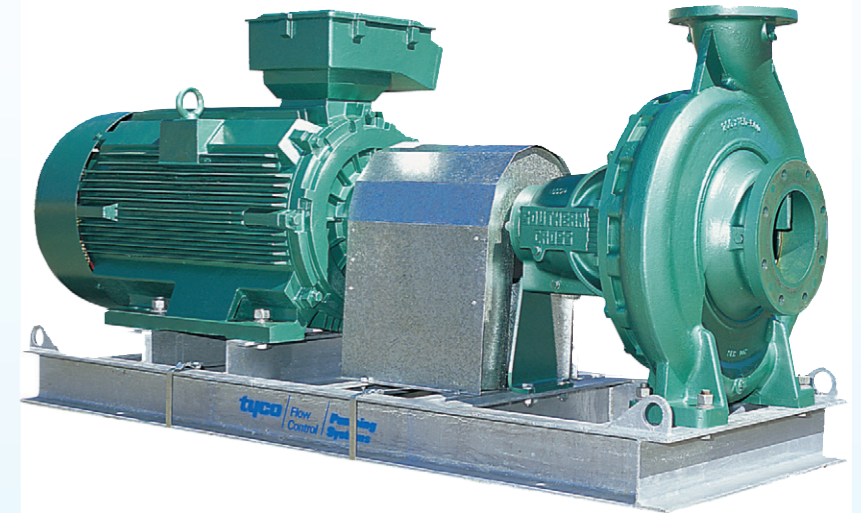
Zinc-free bronze wear rings for impeller, volute and backplate; optional single mechanical seals; soft packed gland seals; works certified and witnessed tests for guaranteed performance; impeller turn-downs; flexible and spacer couplings; pulleys; and pressed or welded steel baseplates.

● MAXIMUM OPERATING TEMP.

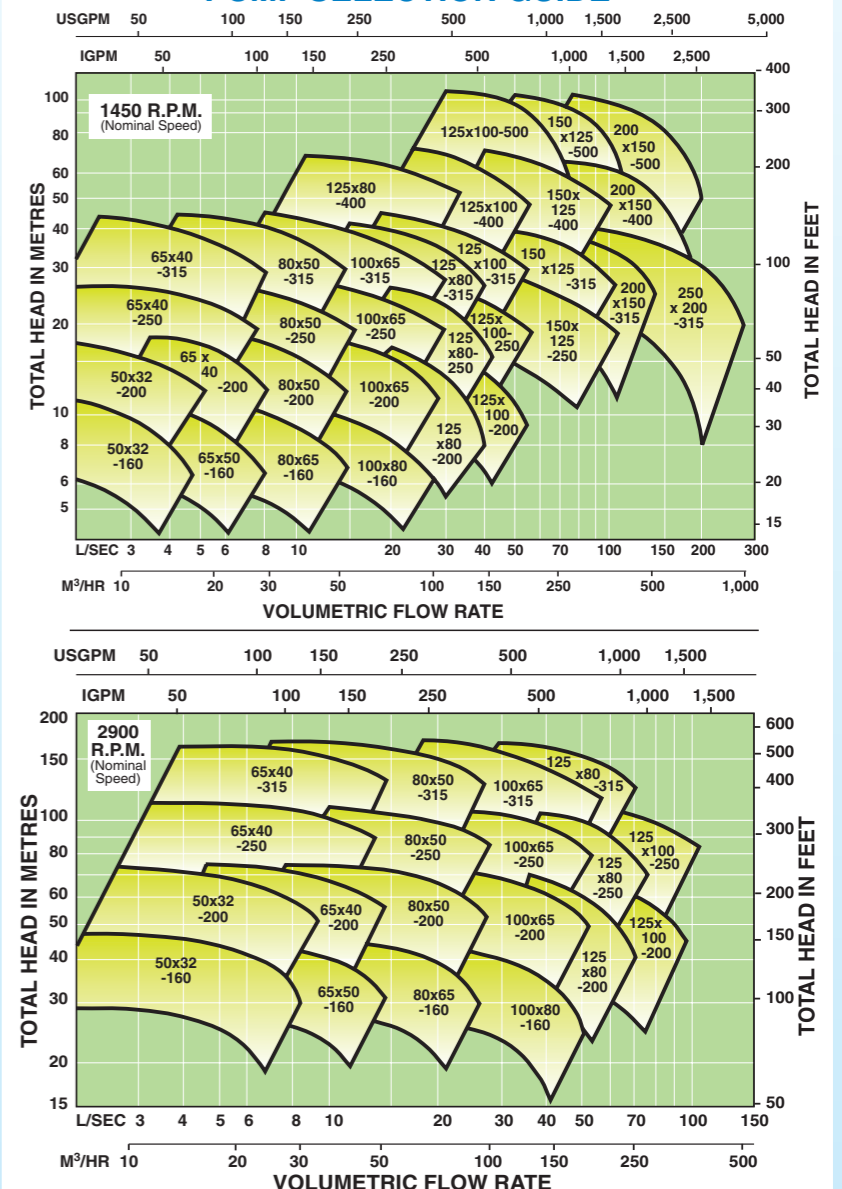
Maximum pumped liquid temperature for Southern Cross “ISO Sovereign” Pumps is 80°C using standard seals. Liquids up to 180°C can be handled using special seals... consult Southern Cross Customer Service Unit for further information.

Southern Cross

2 YEAR WARRANTY



PUMP SELECTION GUIDE

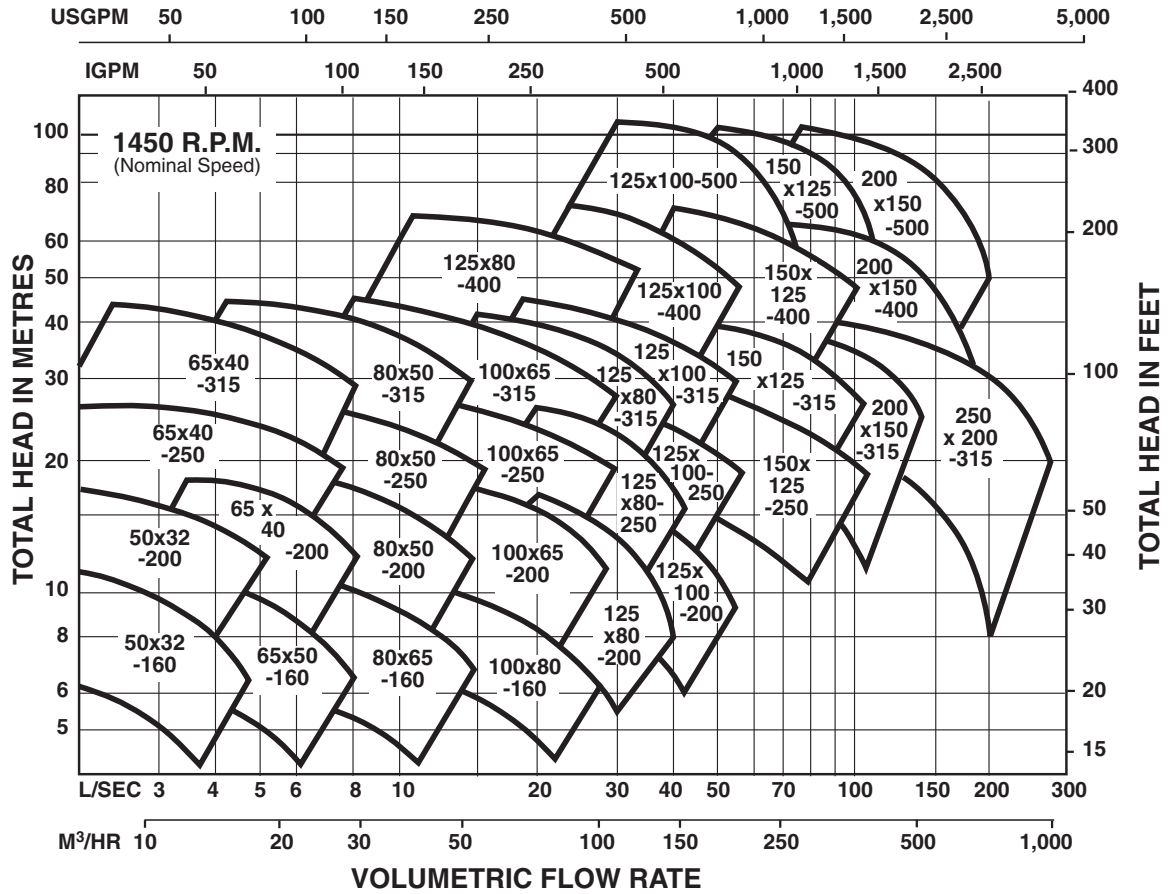




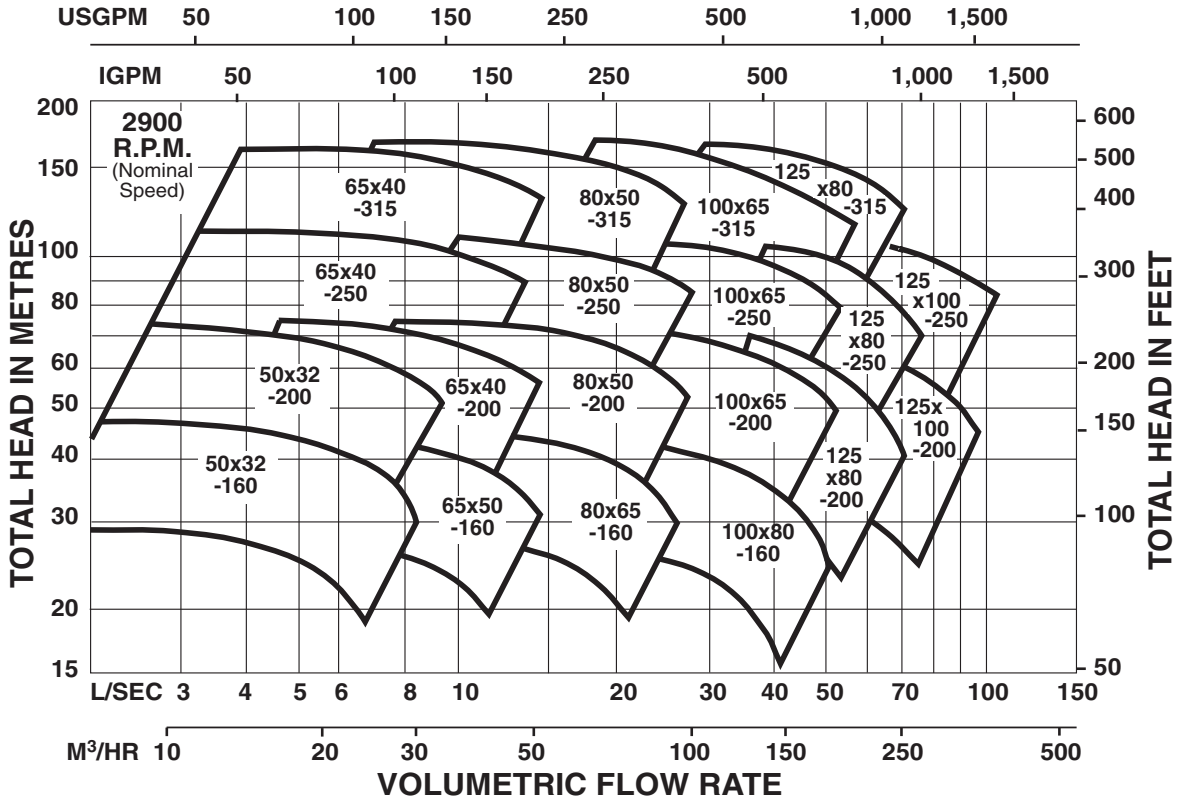
CENTRIFUGAL PUMP PERFORMANCE DATA

SELECTION CHART
1450 / 2900 R.P.M.
*So*verign

Click in red rectangle for direct link to detailed pump performance curve for selected pump



Click in red rectangle for direct link to detailed pump performance curve for selected pump



Performance to AS2417 Grade 2 for clean, cold water only.

May 2005

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SELECTION CHART

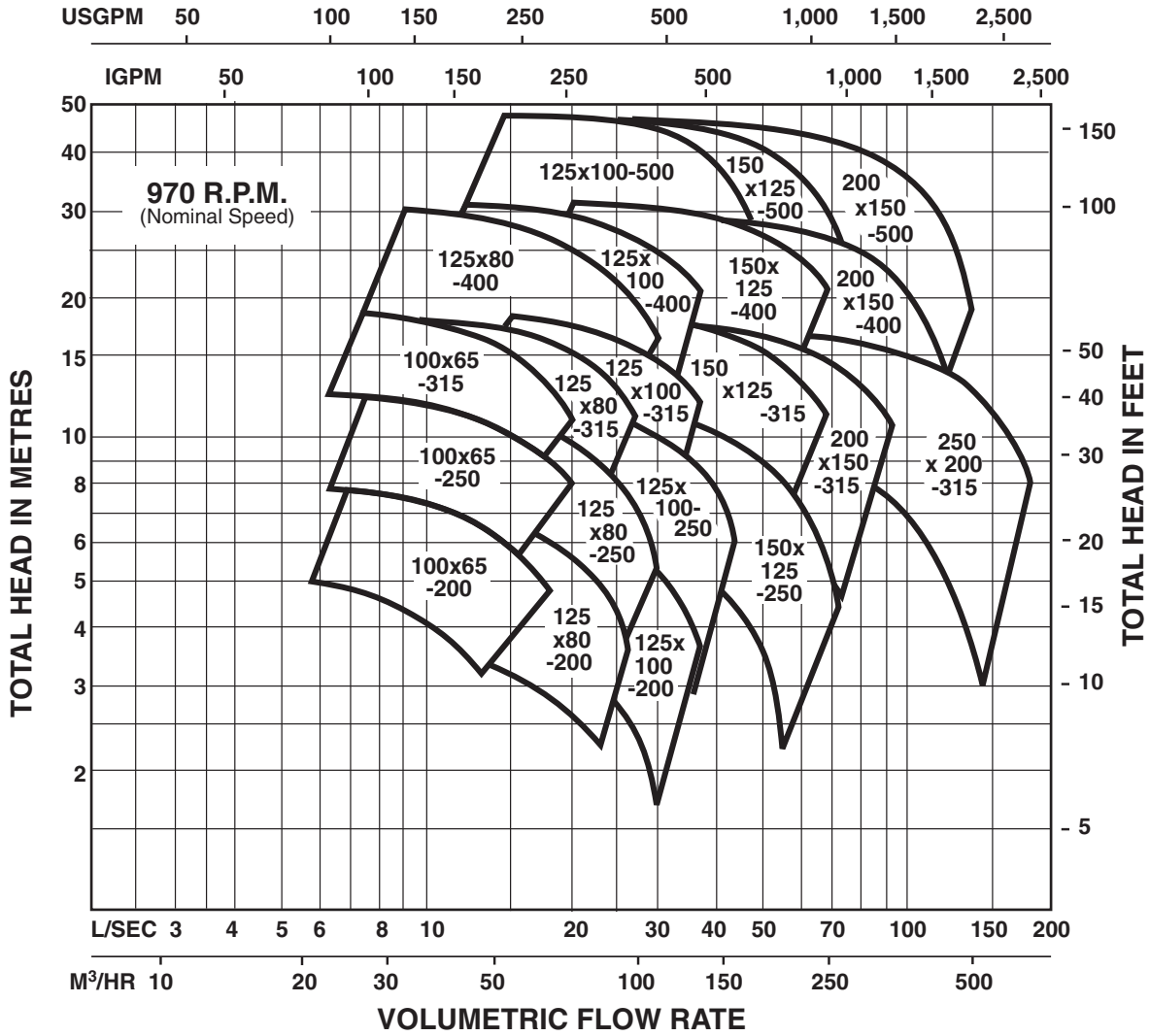
970 R.P.M.

Sovereign



CENTRIFUGAL PUMP PERFORMANCE DATA

Click in red rectangle for direct link to detailed pump performance curve for selected pump



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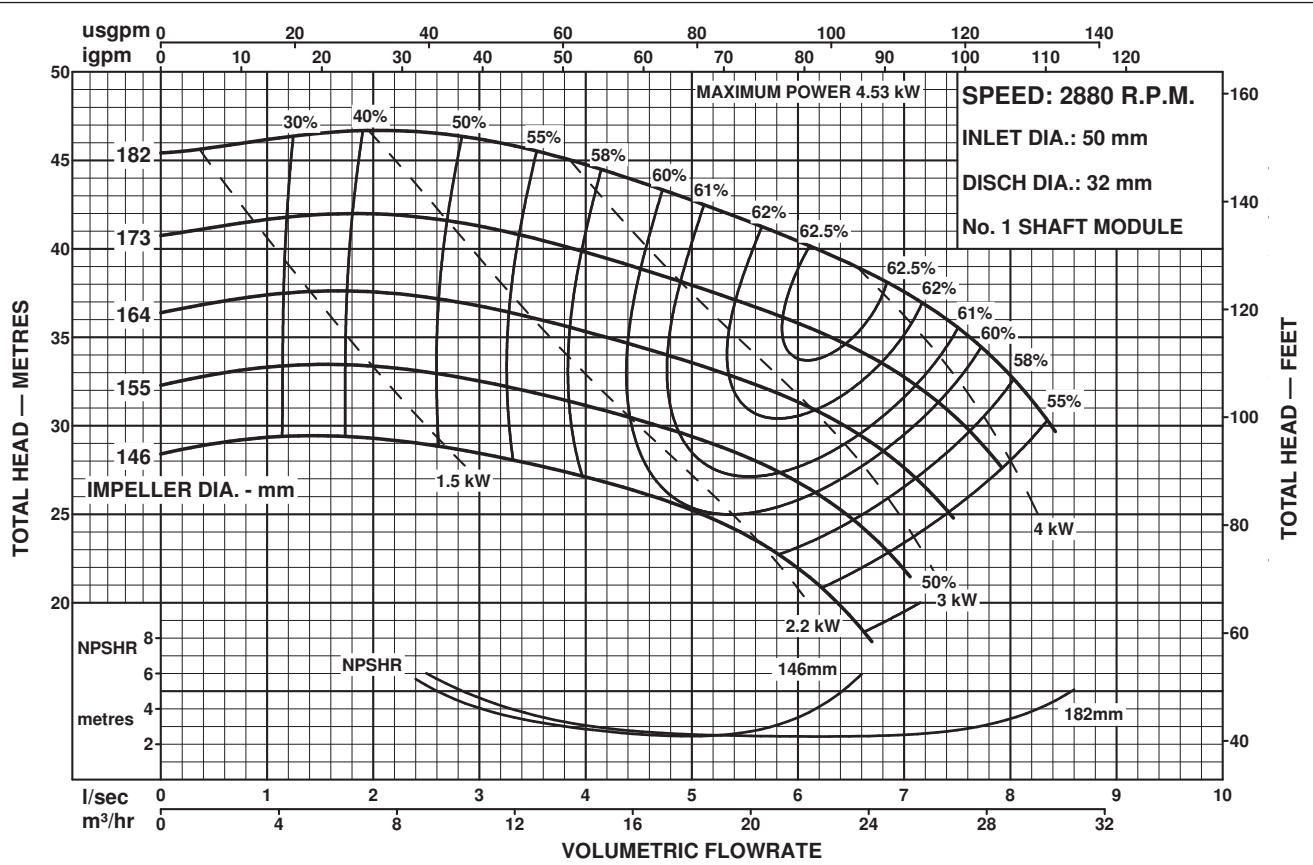
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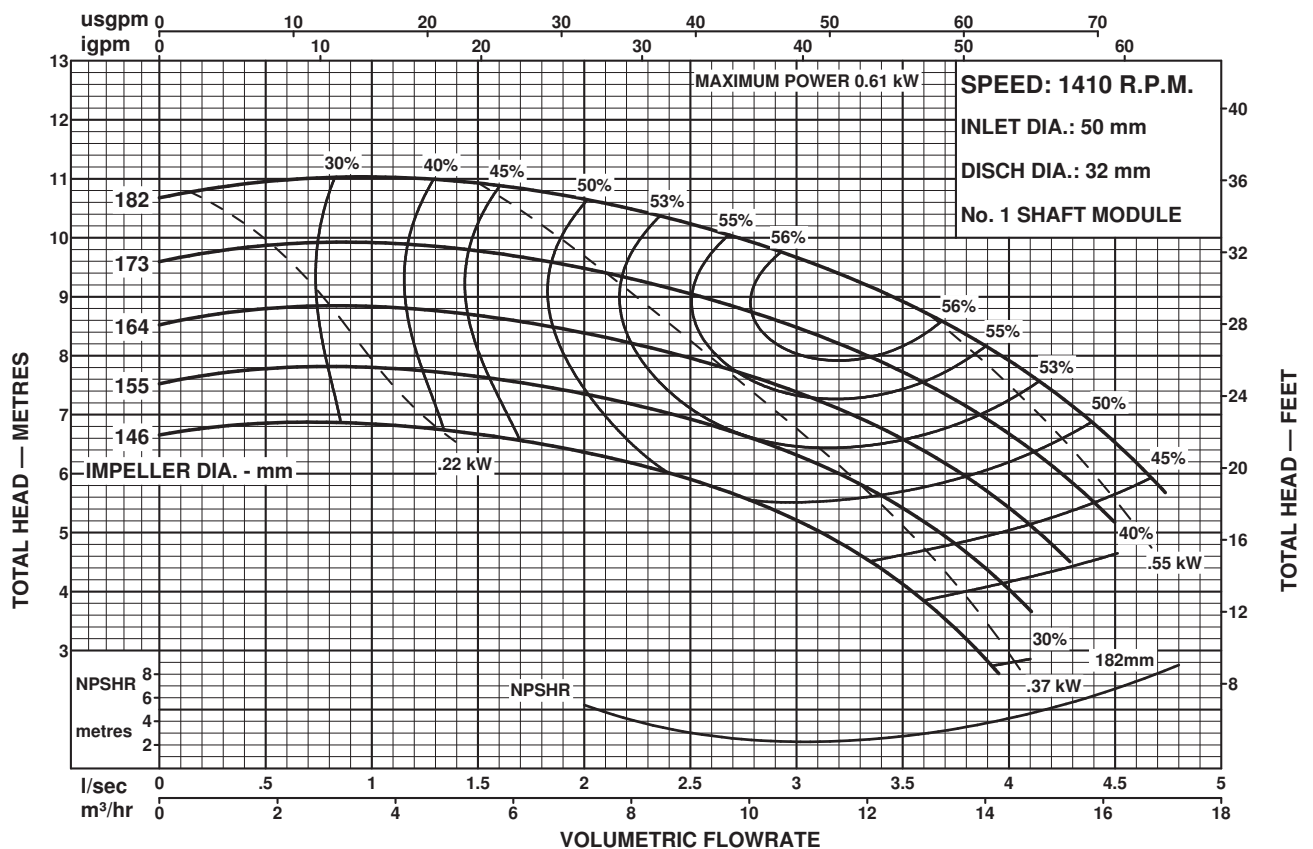
Sovereign 50 x 32-160

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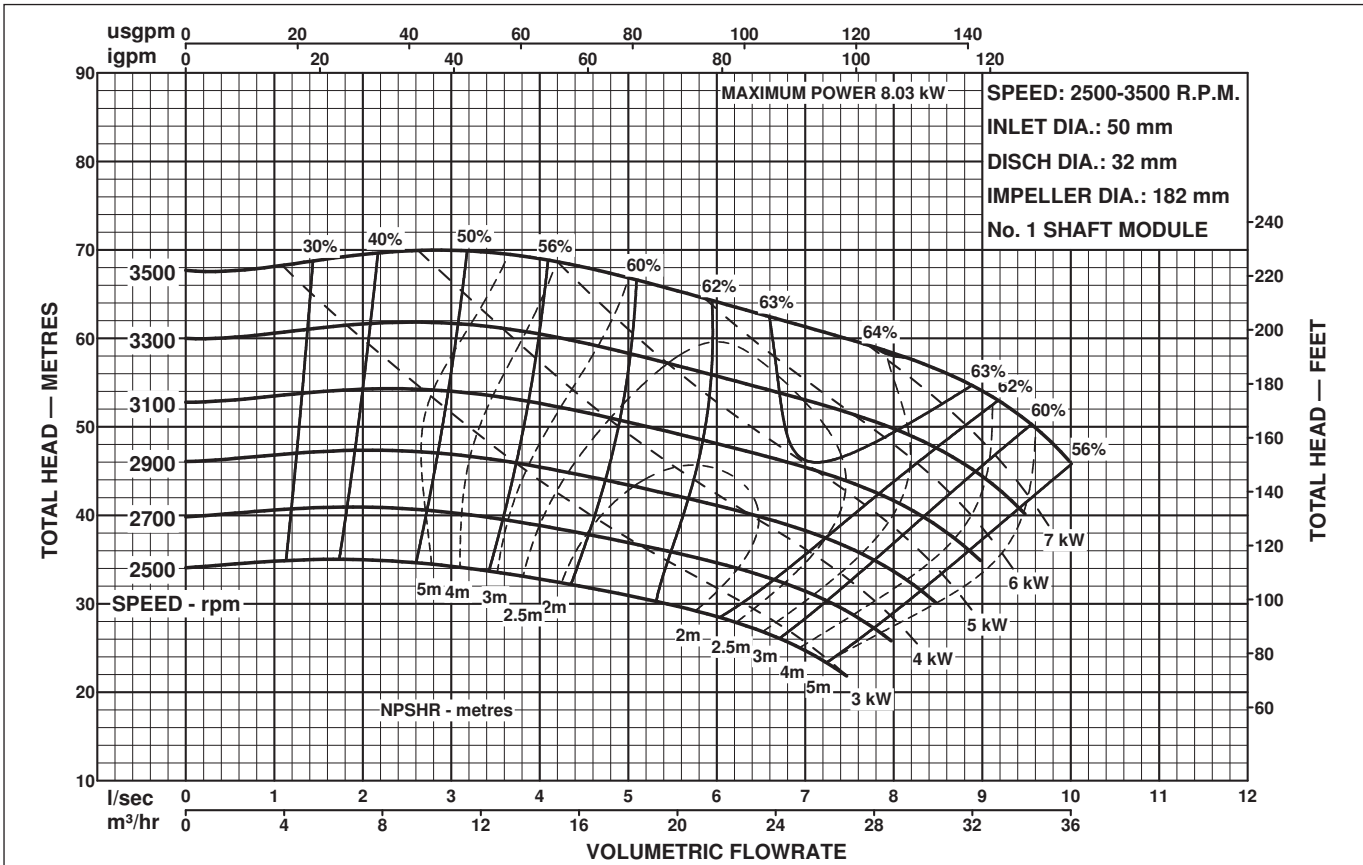
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SO Sovereign

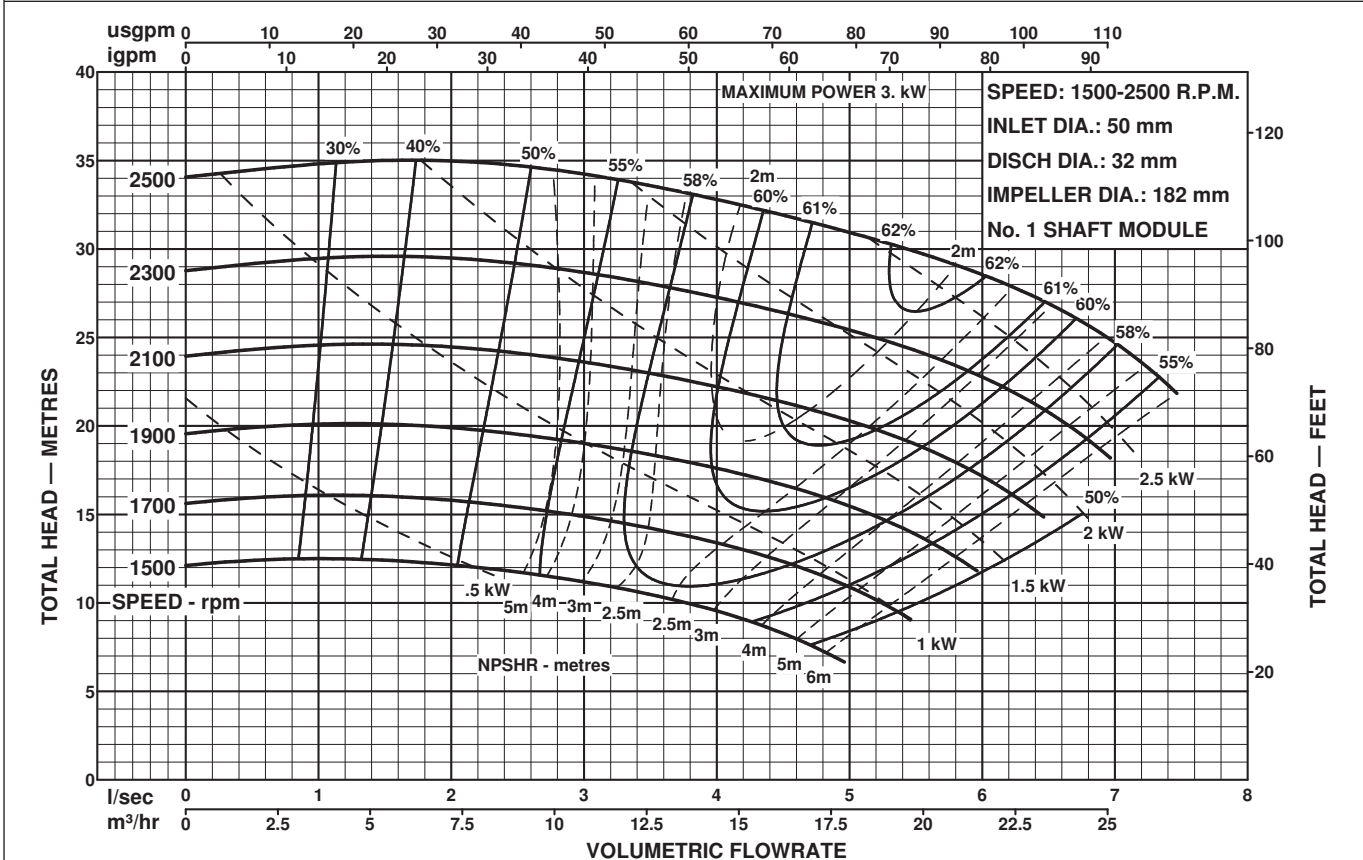


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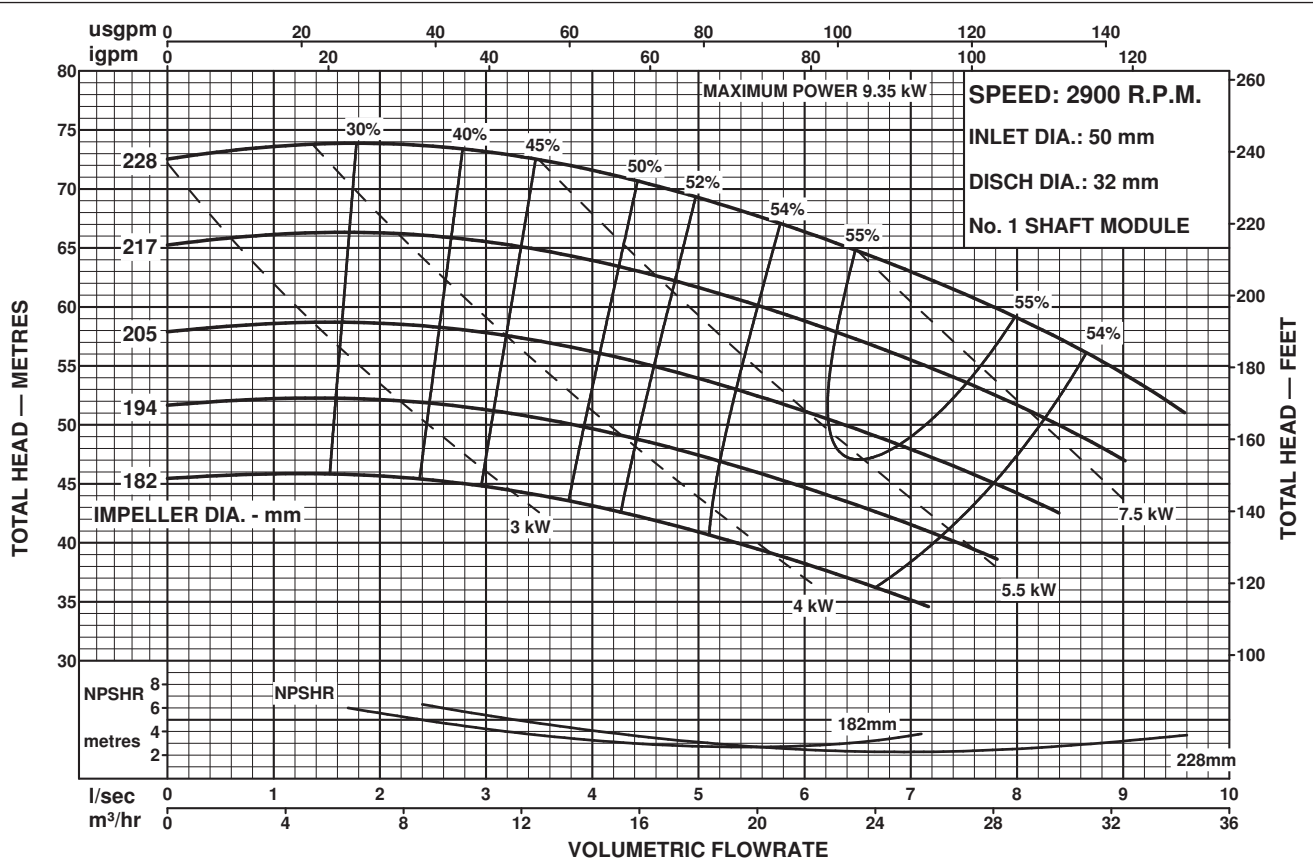
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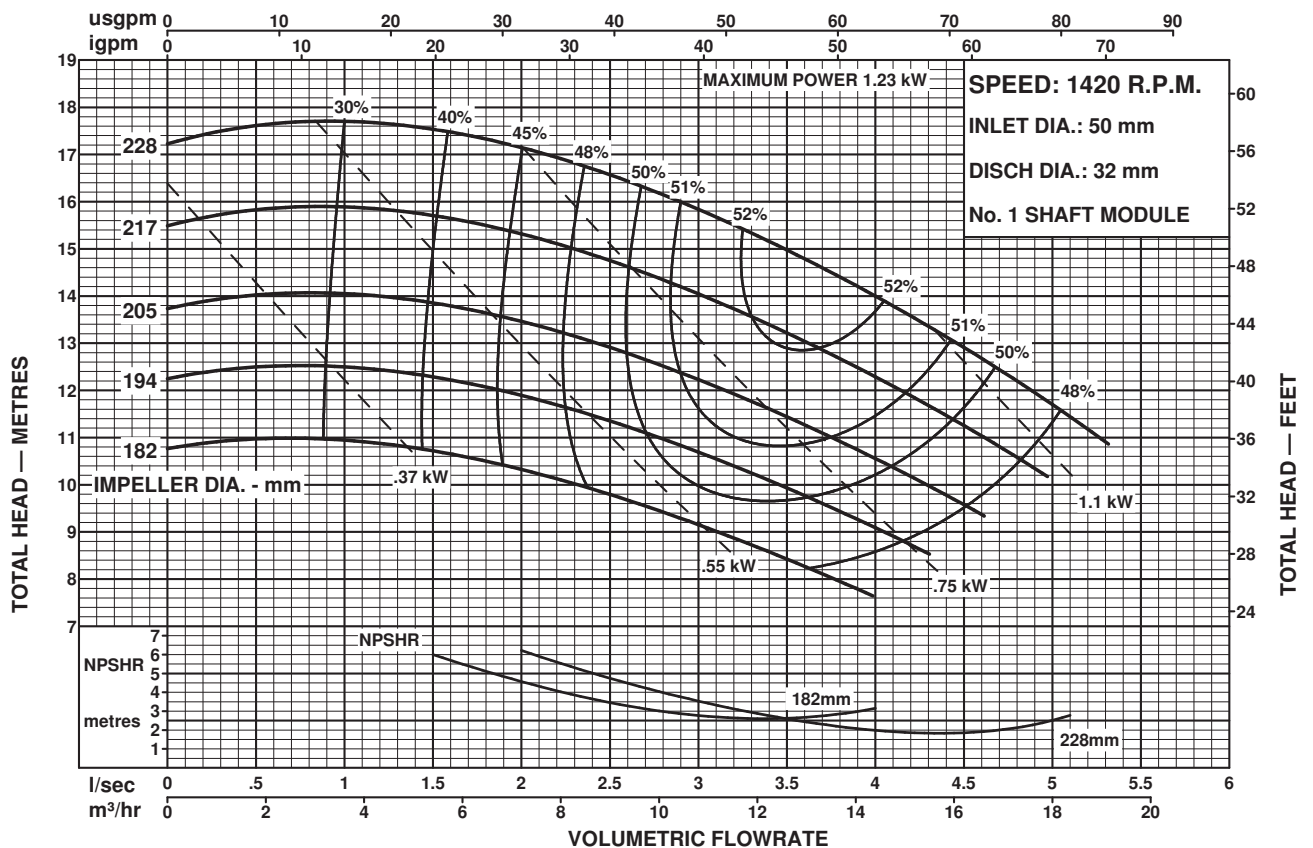
Sovereign 50 x 32-200

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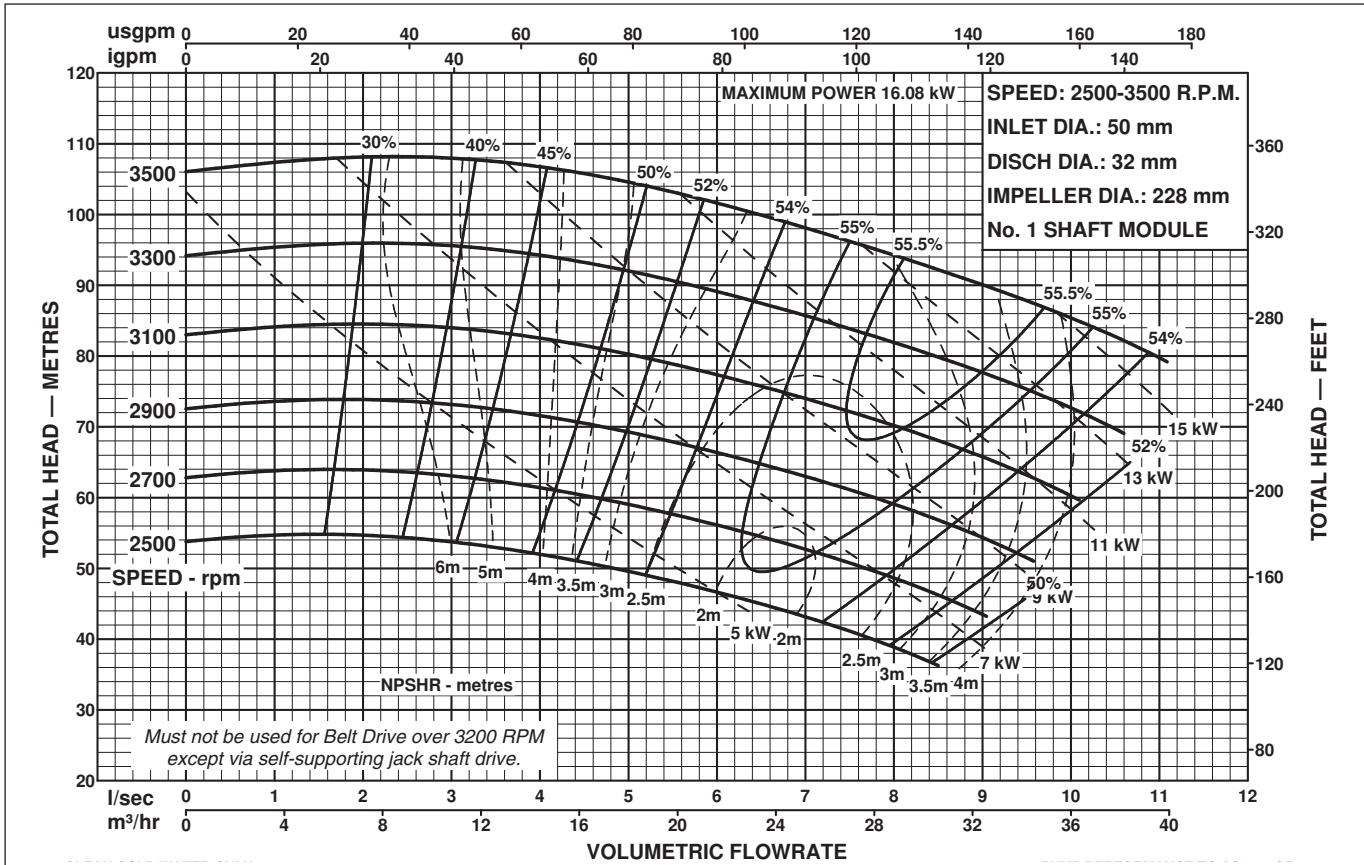
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SO Sovereign

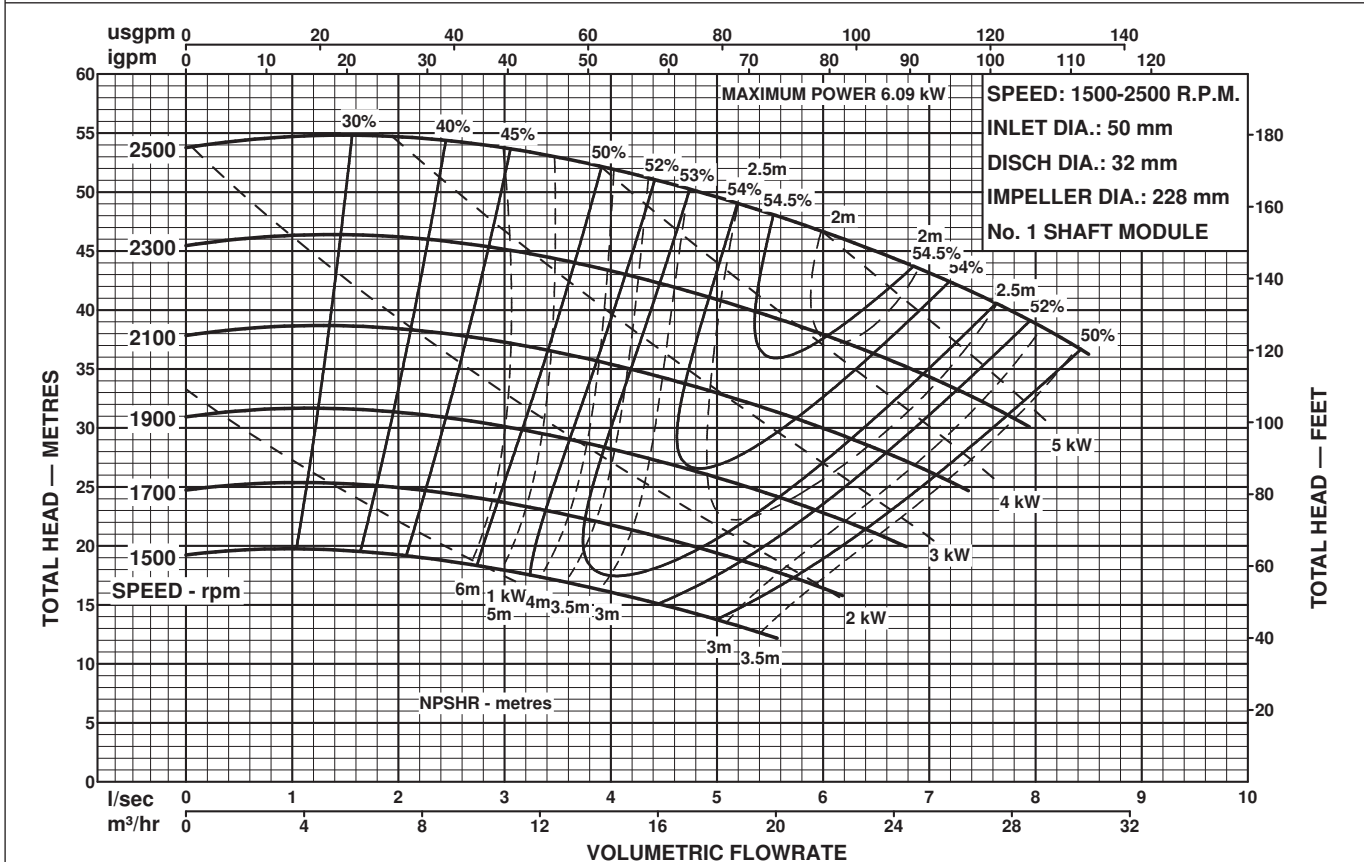


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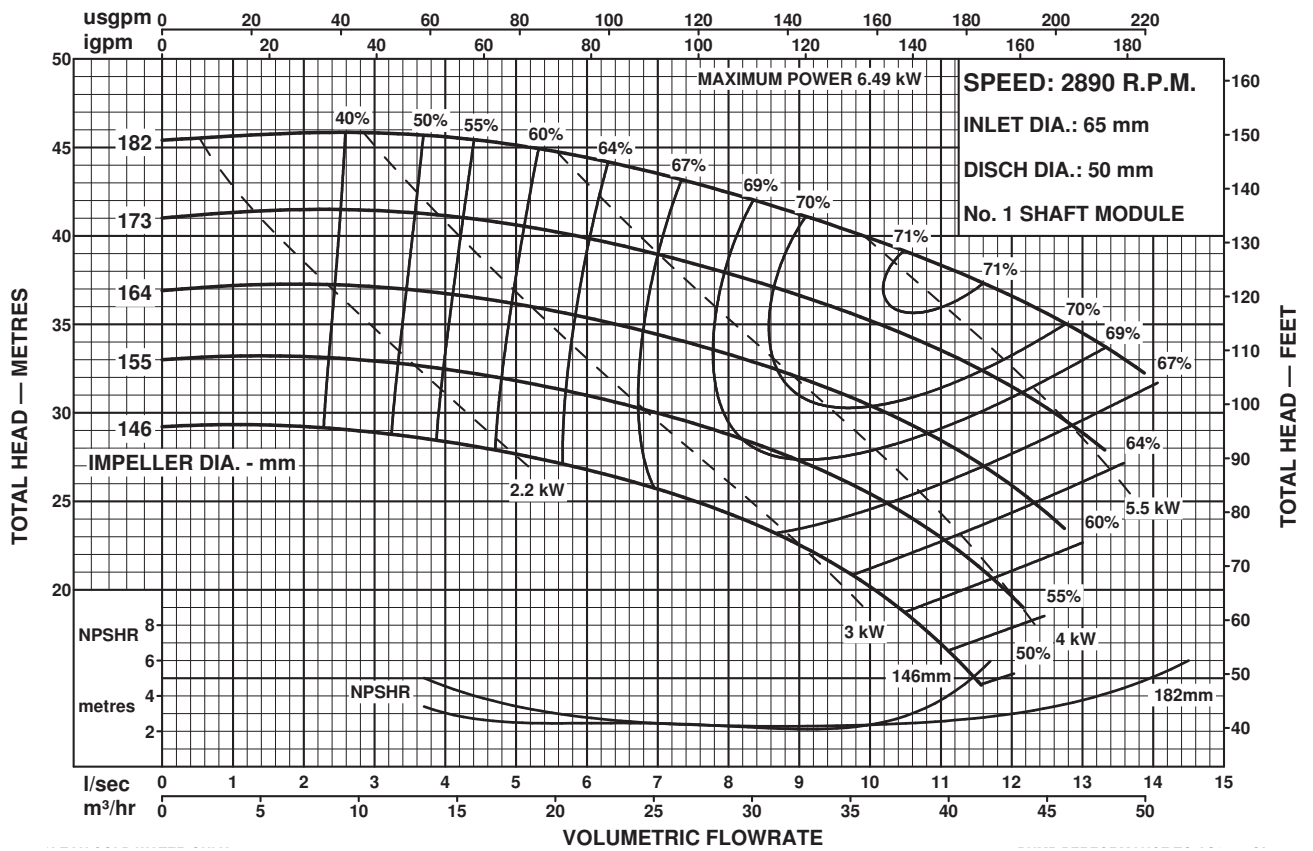


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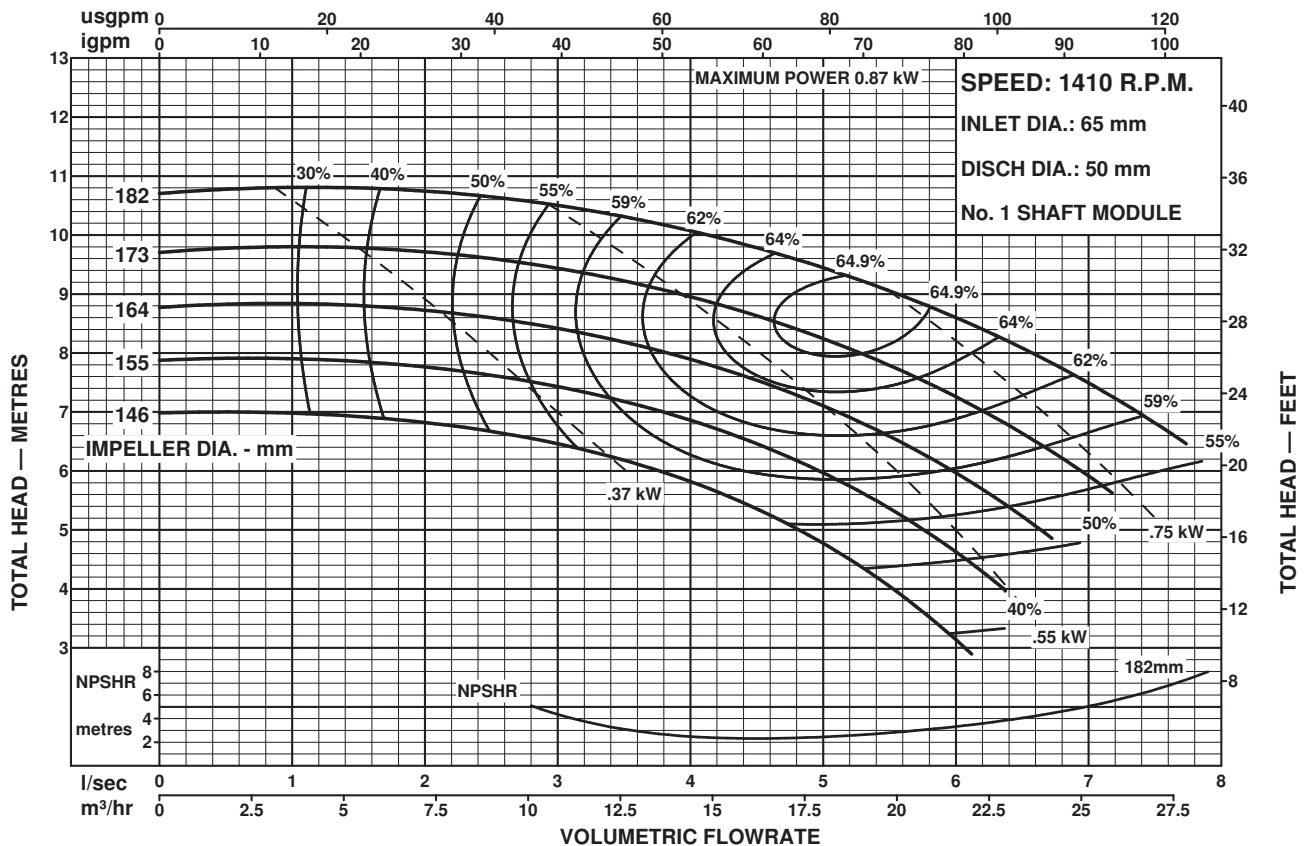


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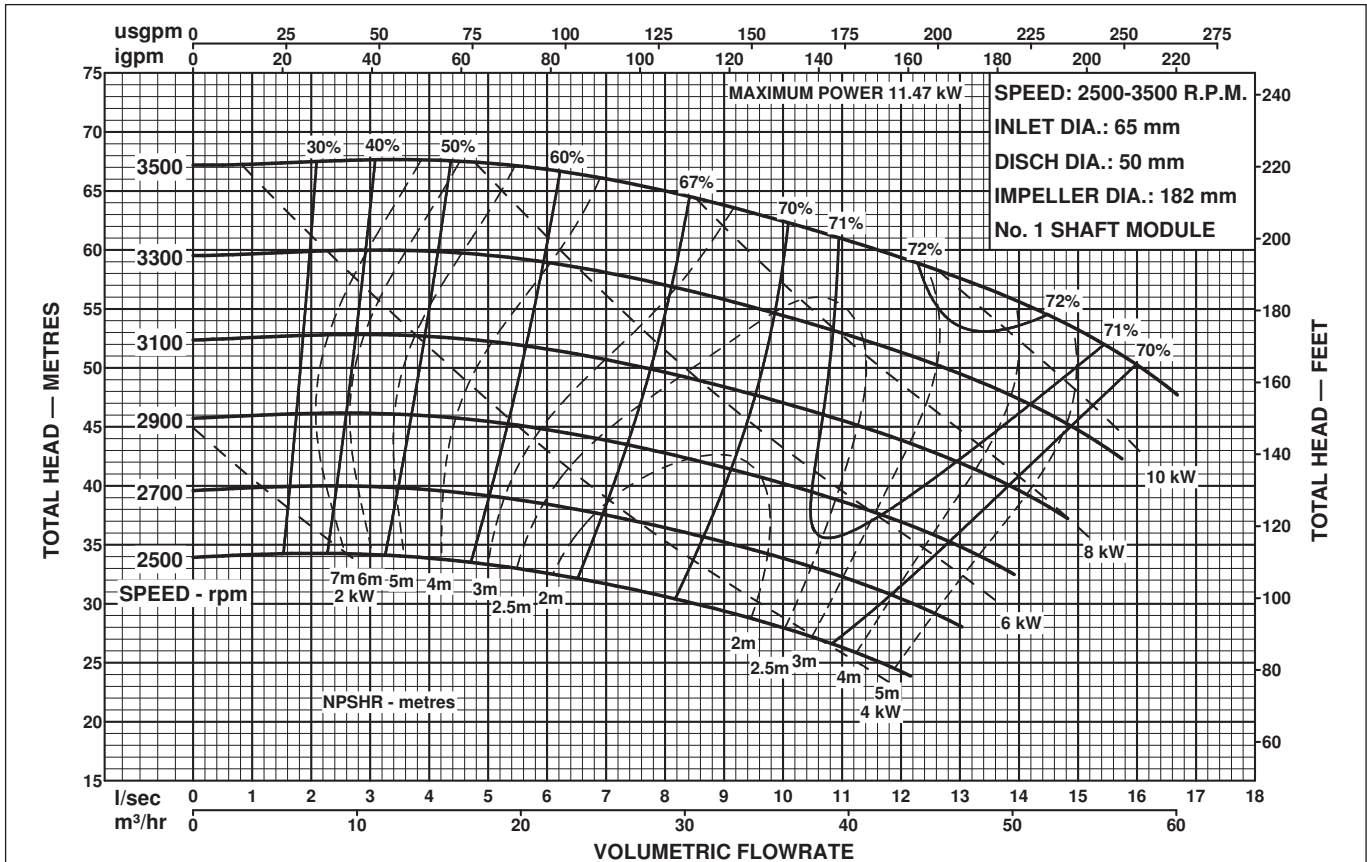
May 2005

65 x 50-160

Sovereign

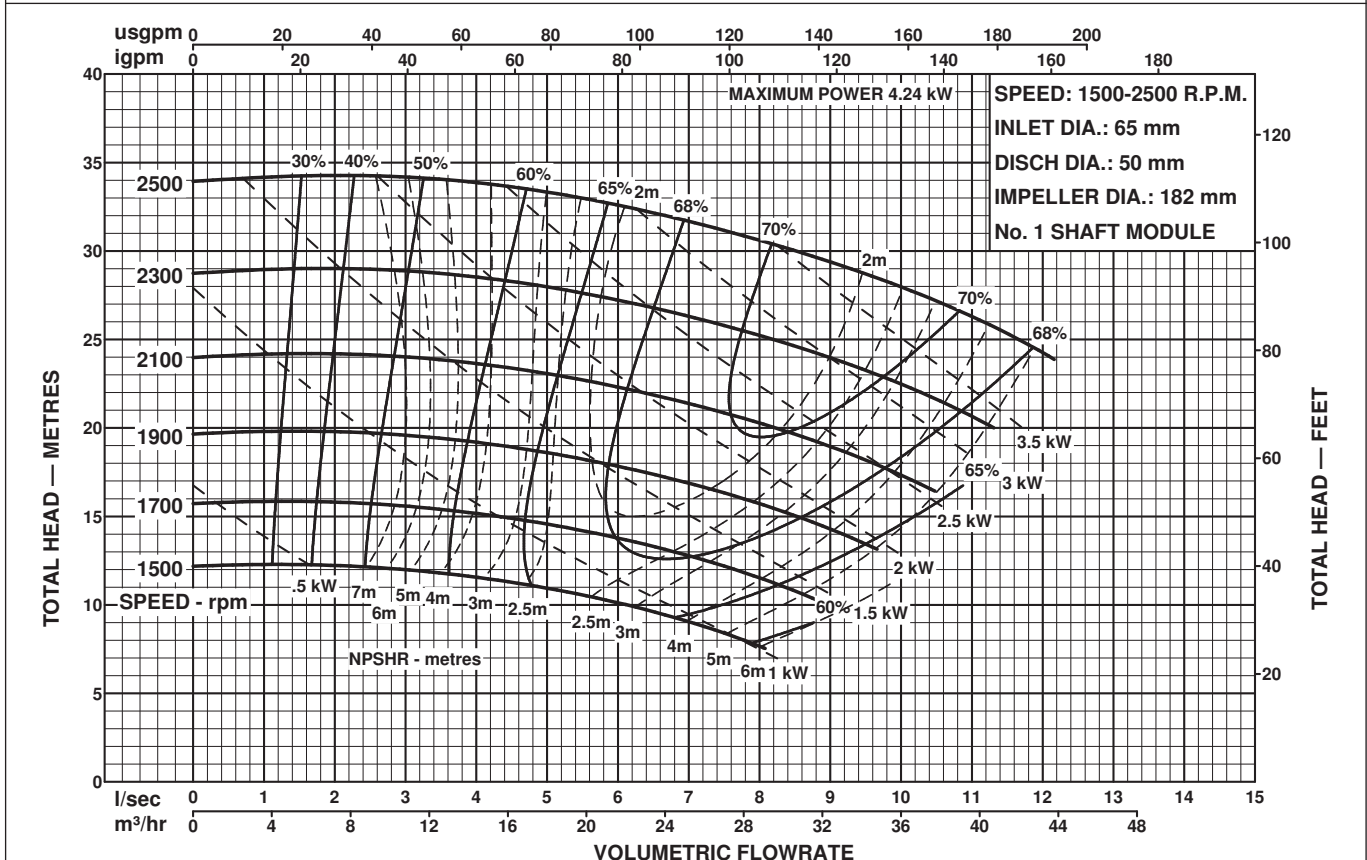


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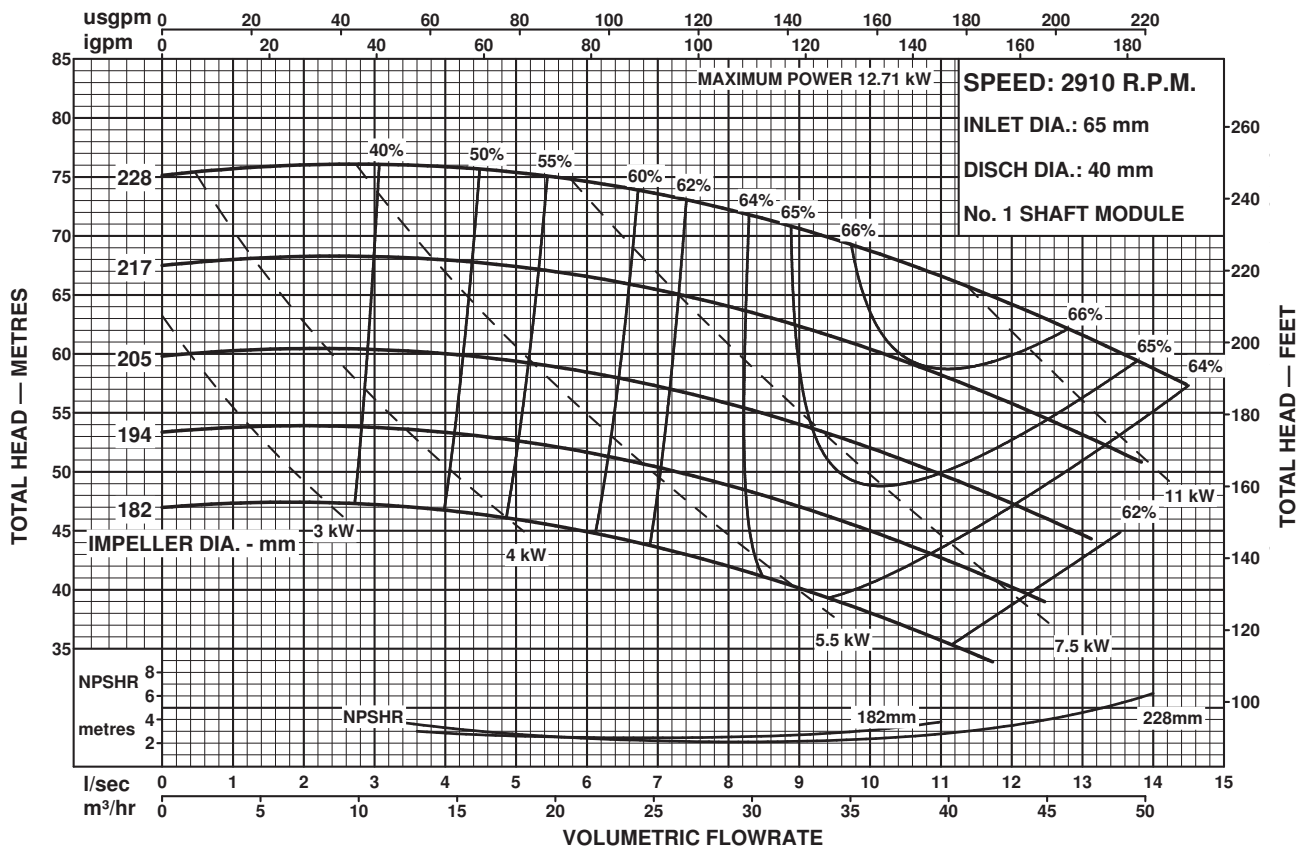
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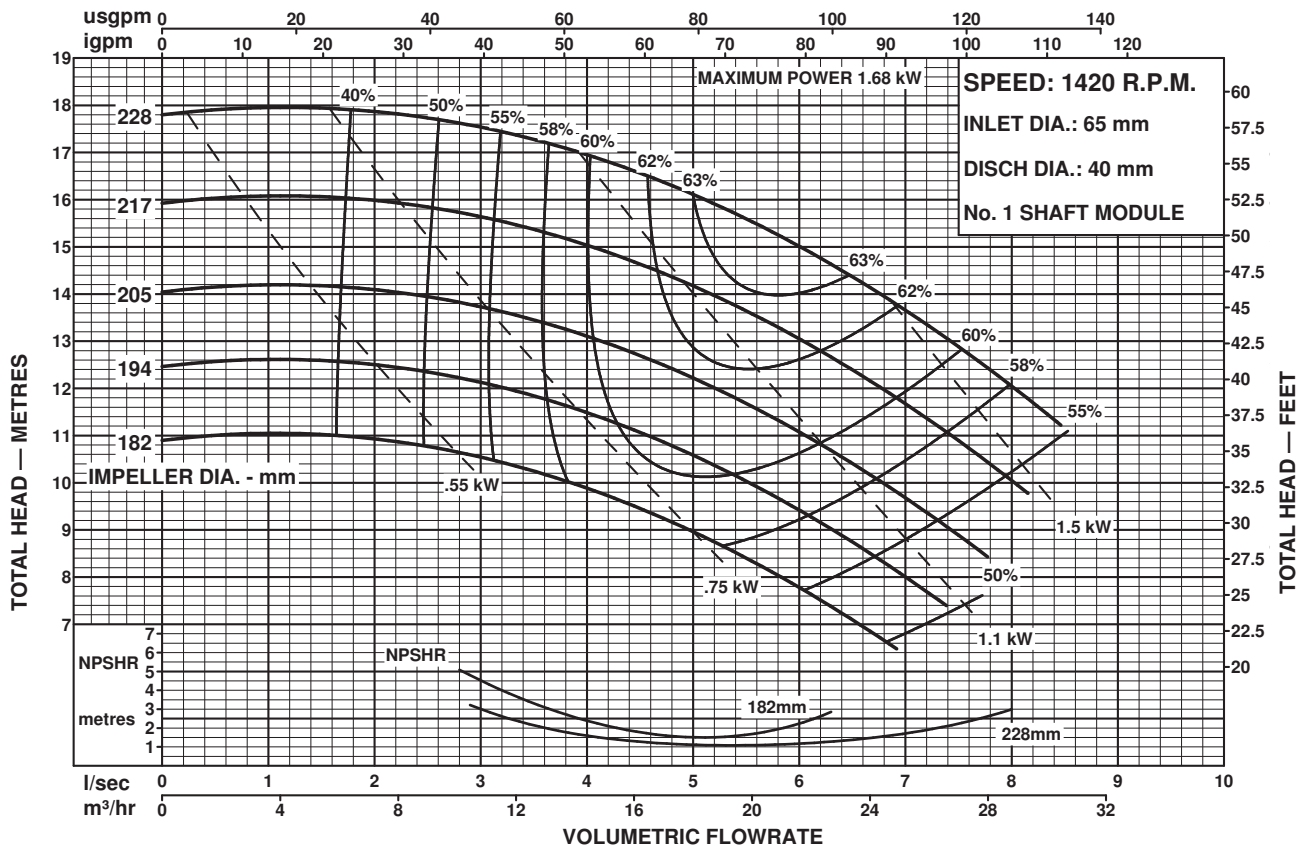
Sovereign 65 x 40-200

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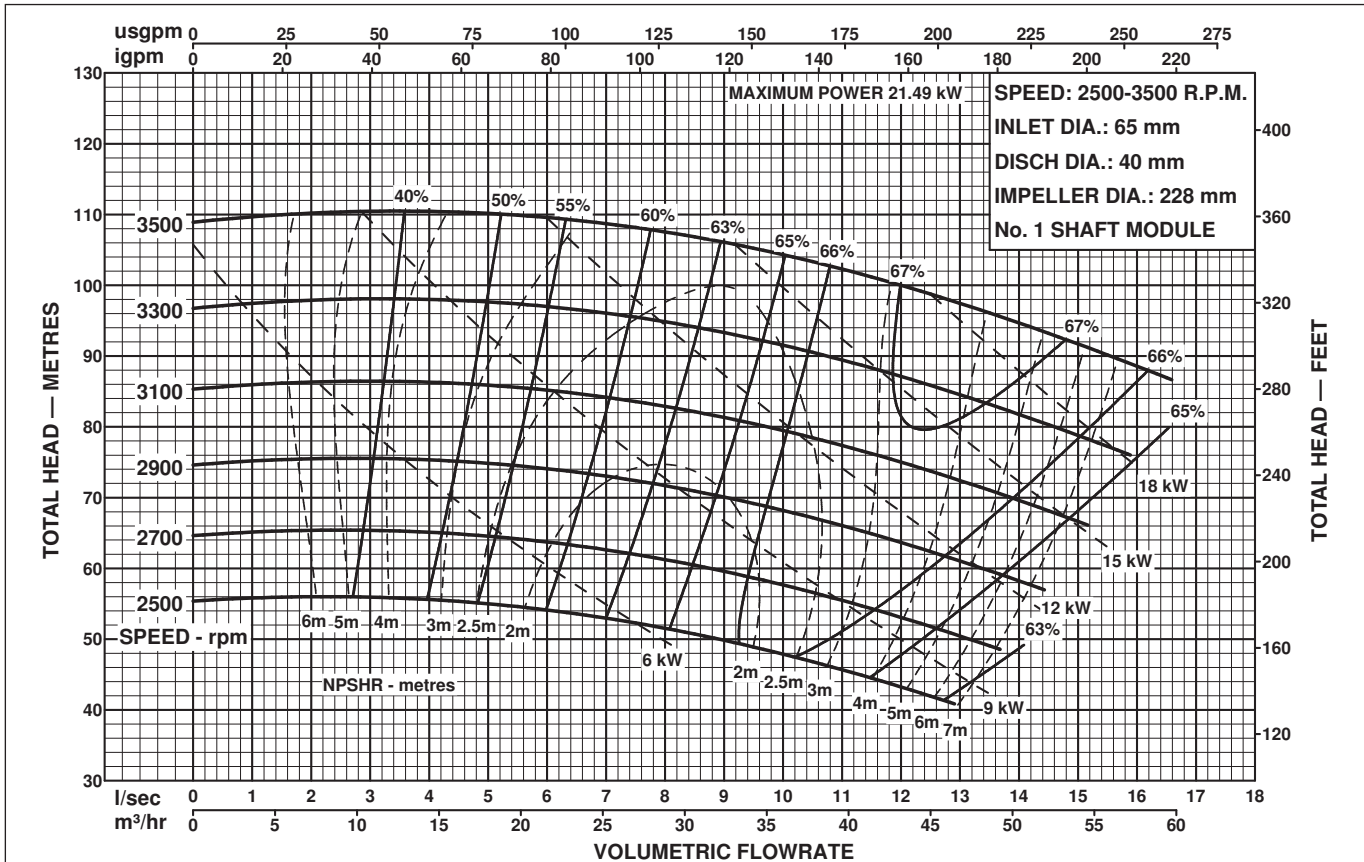
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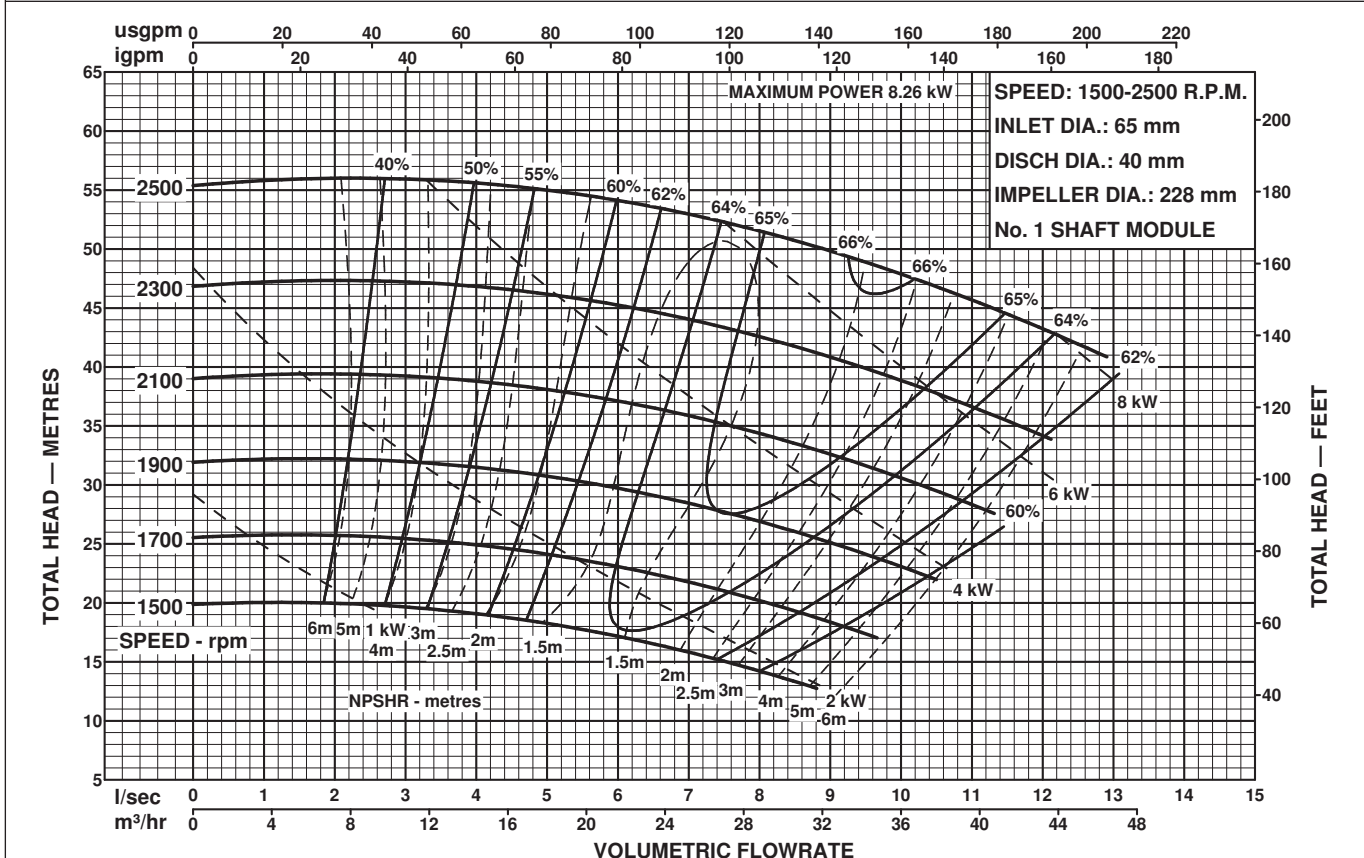


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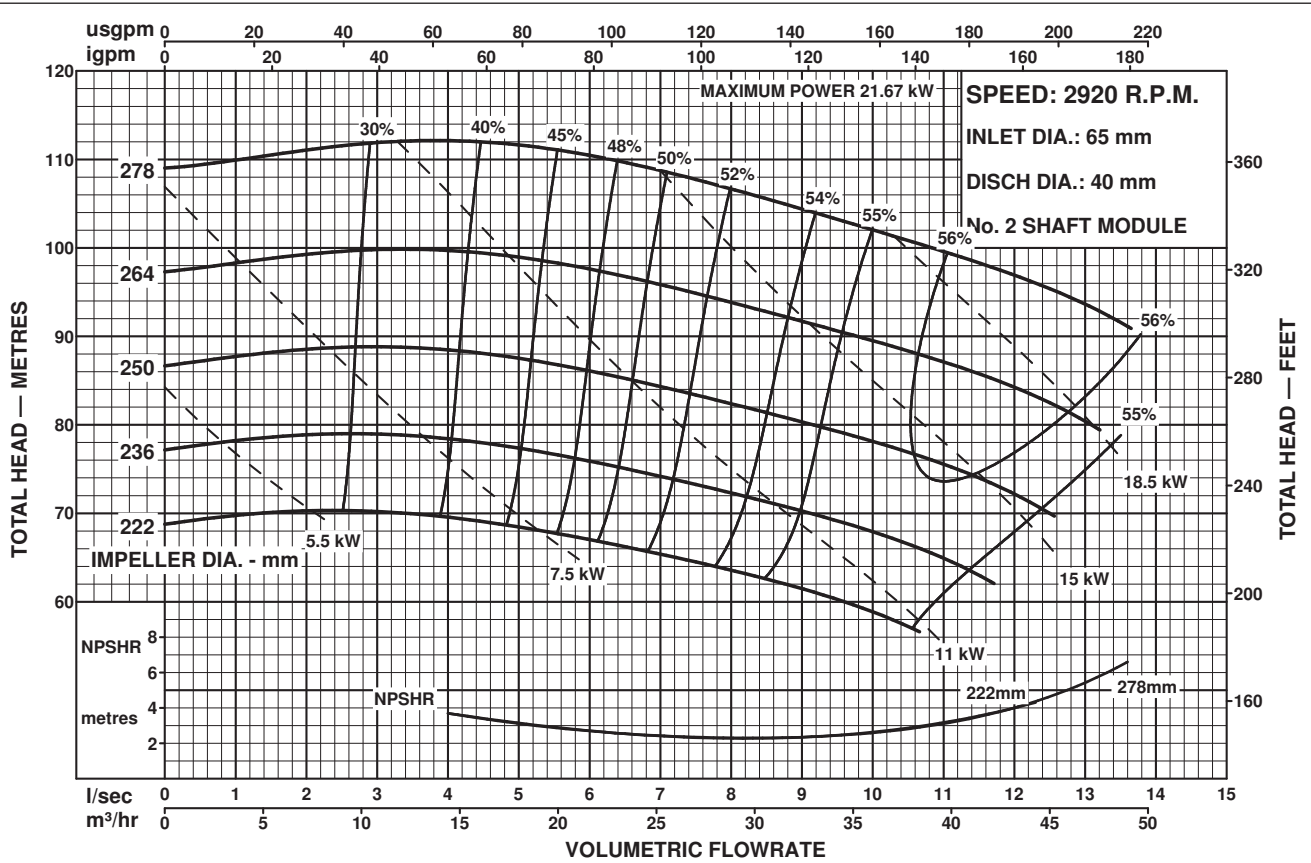
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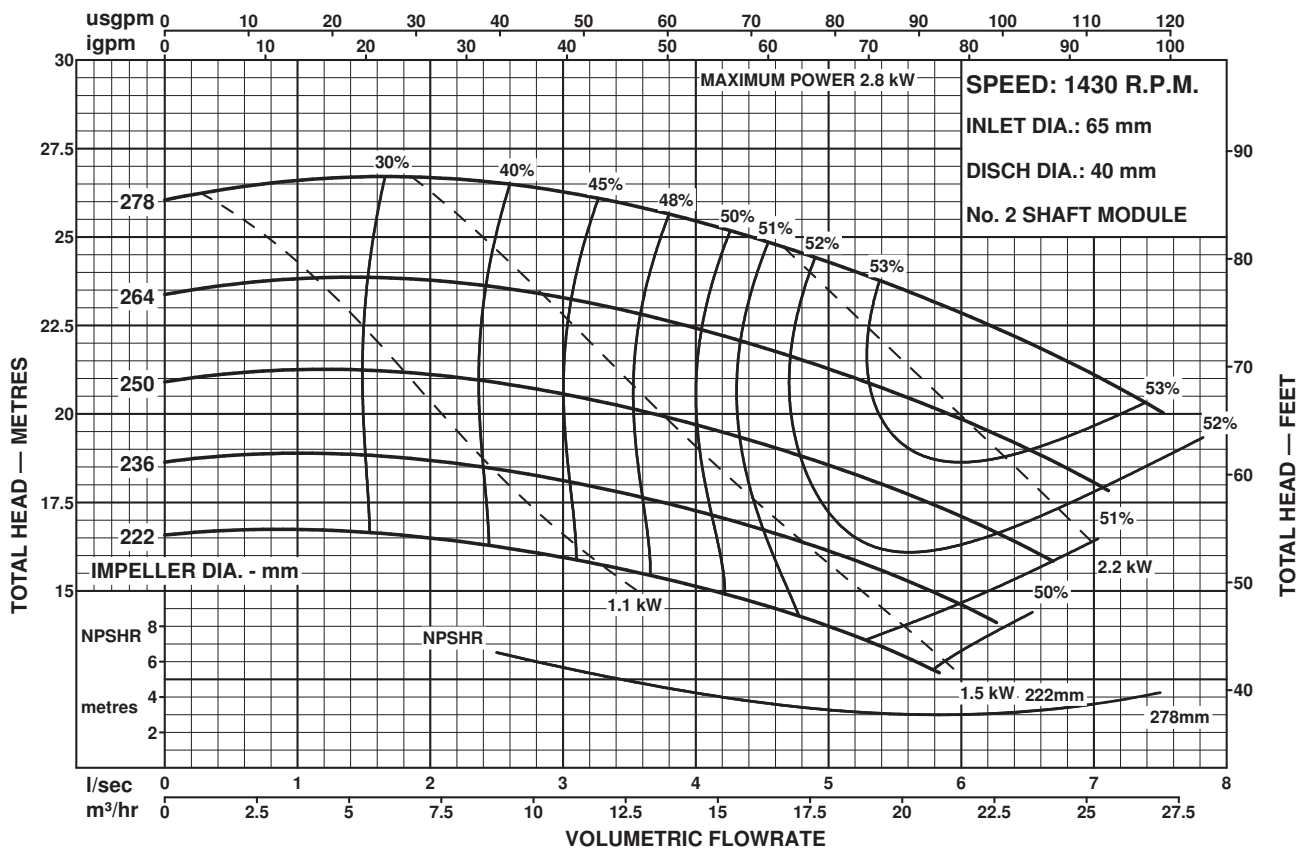
Sovereign 65 x 40-250

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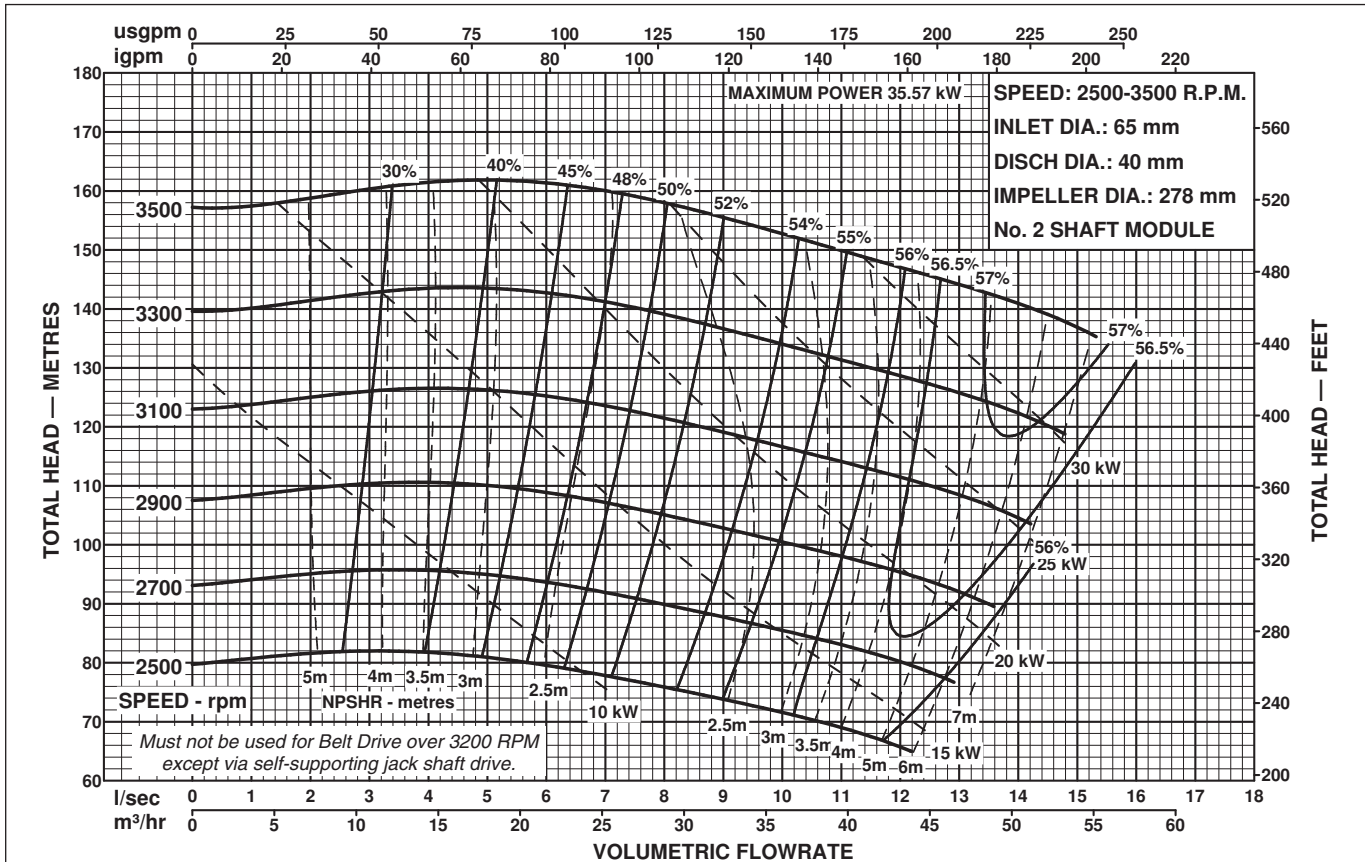
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SO Sovereign

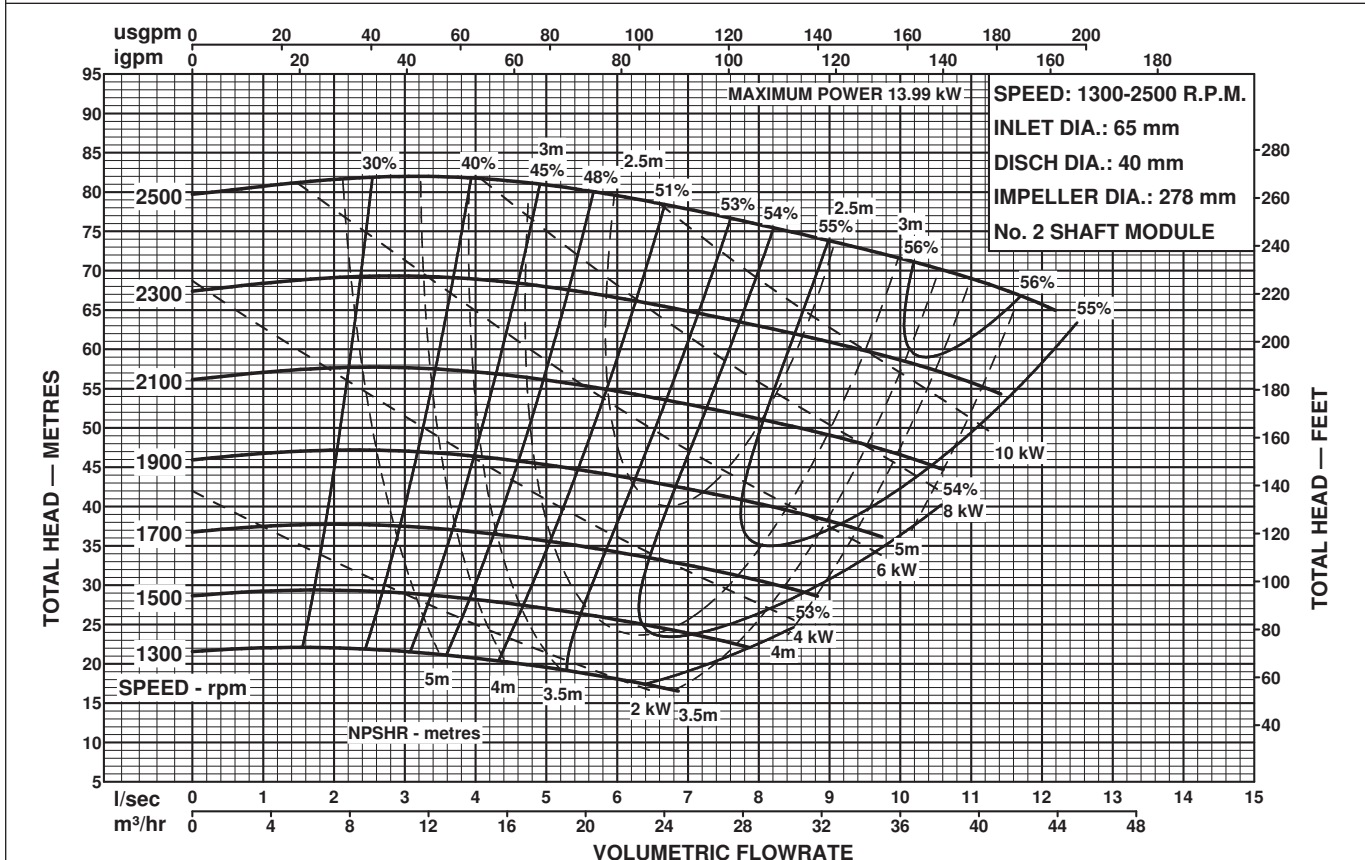


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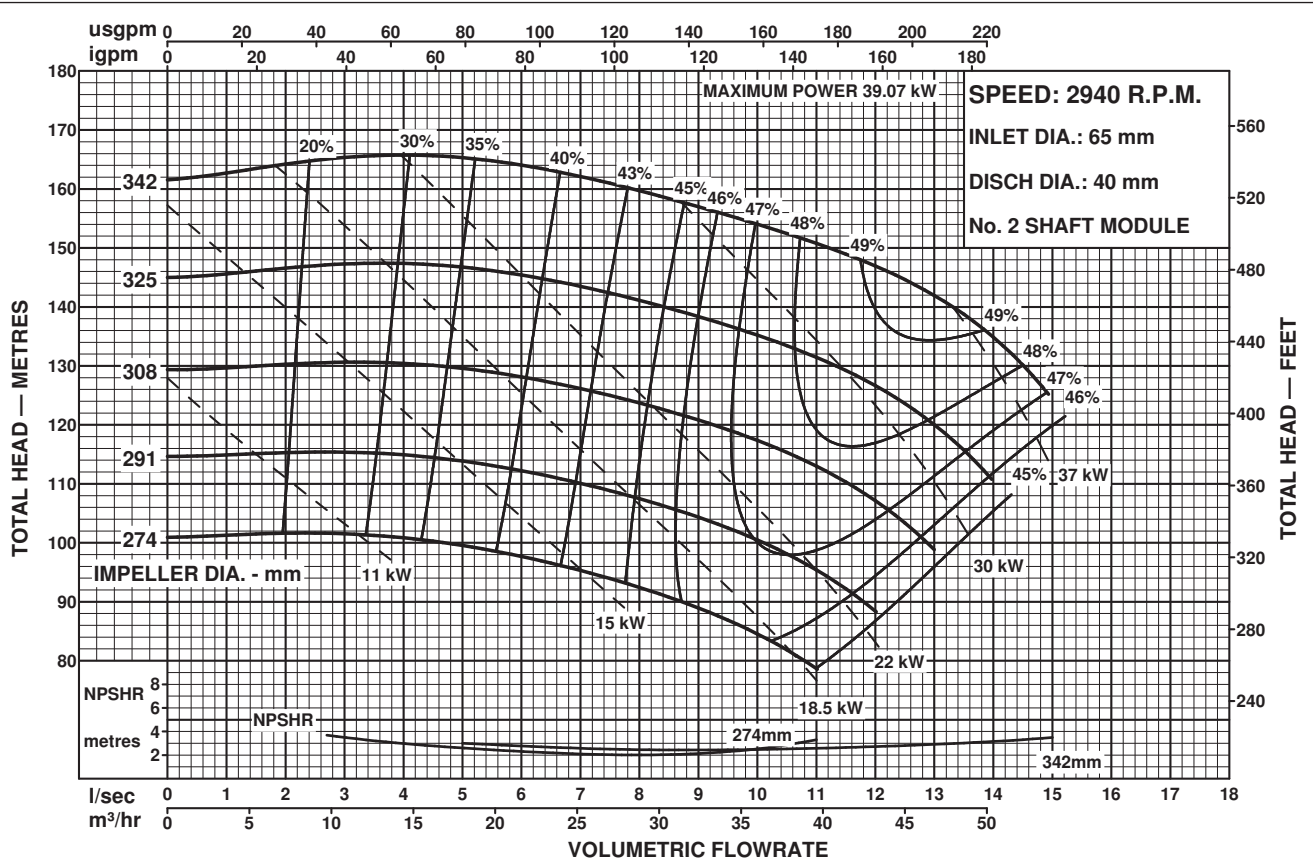
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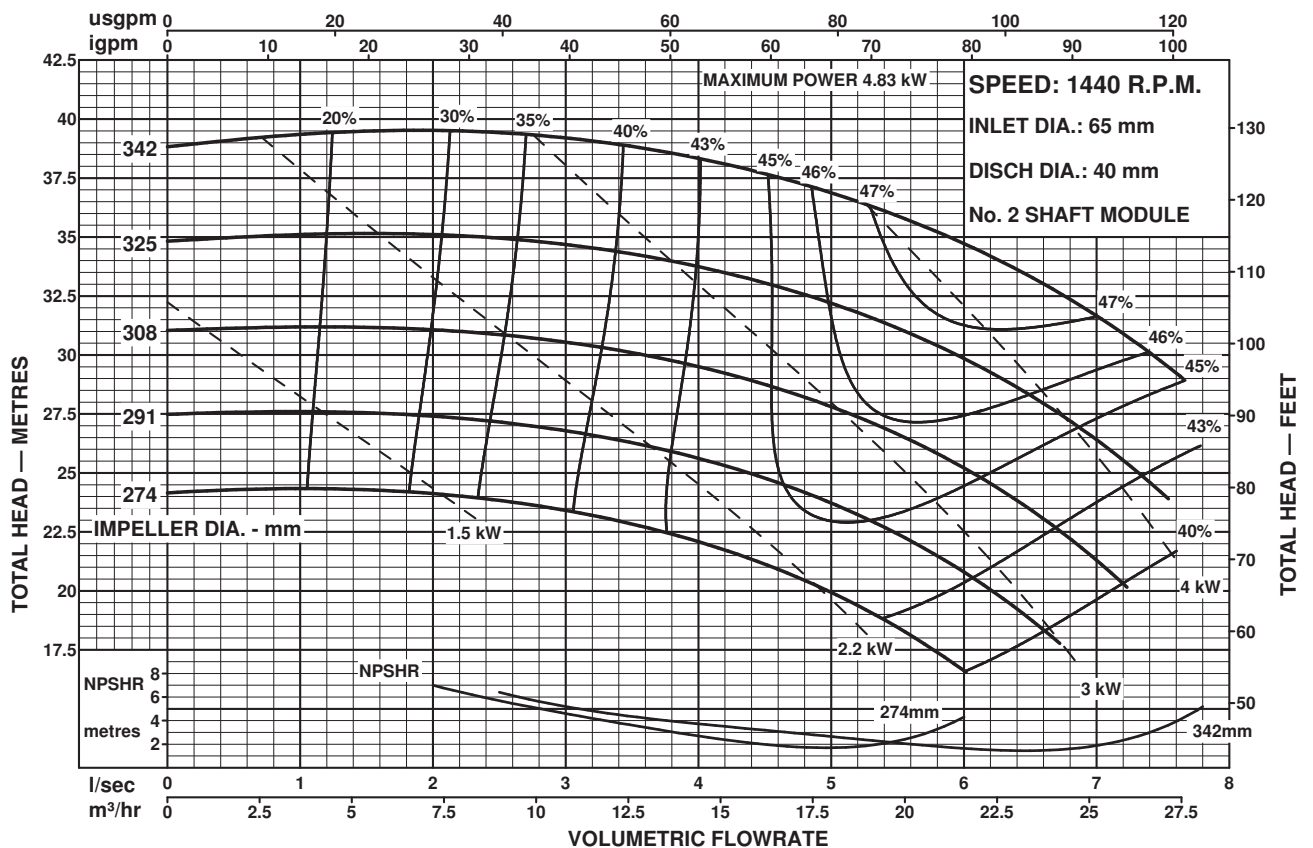
Sovereign 65 x 40-315

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May 2005



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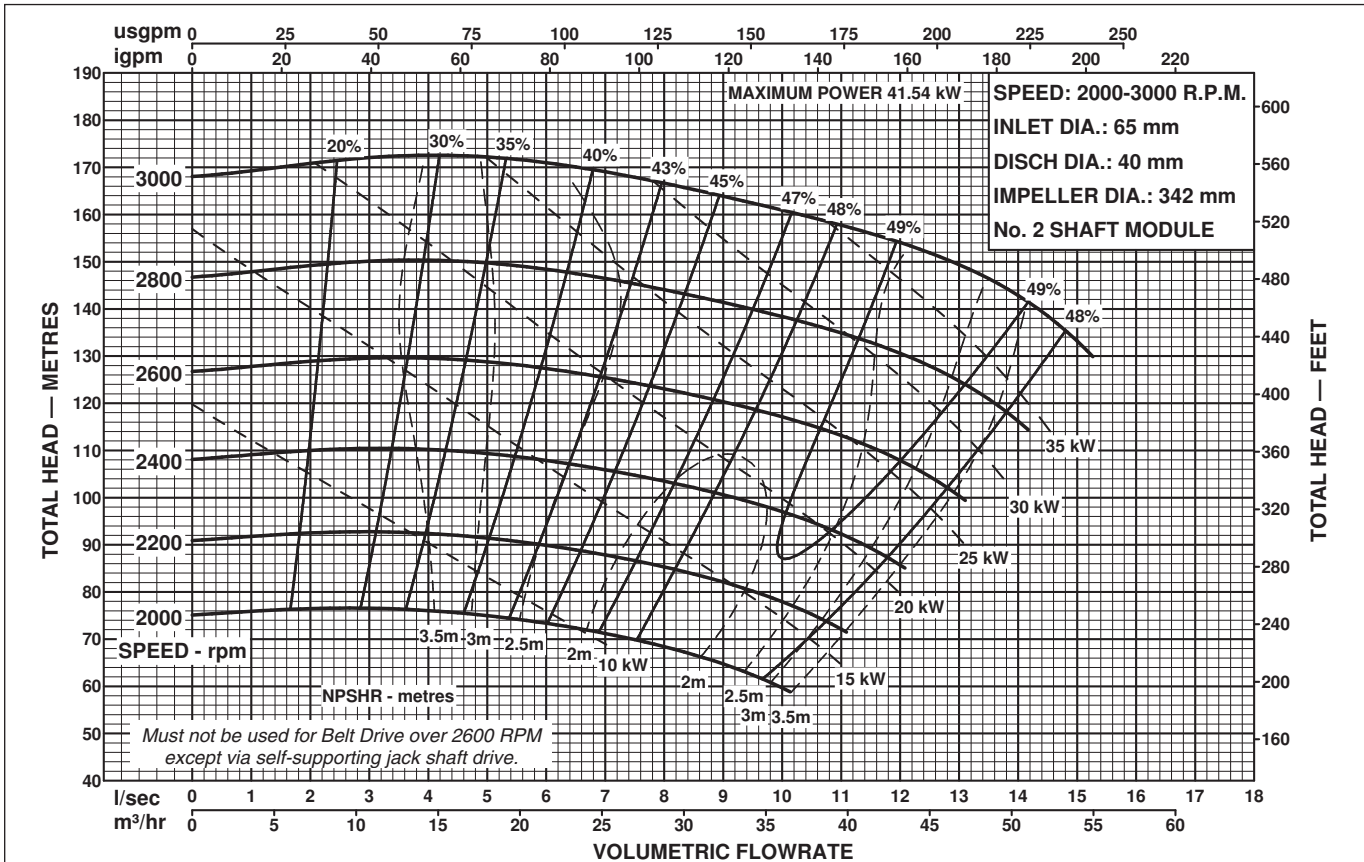
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65 x 40-315

Sovereign

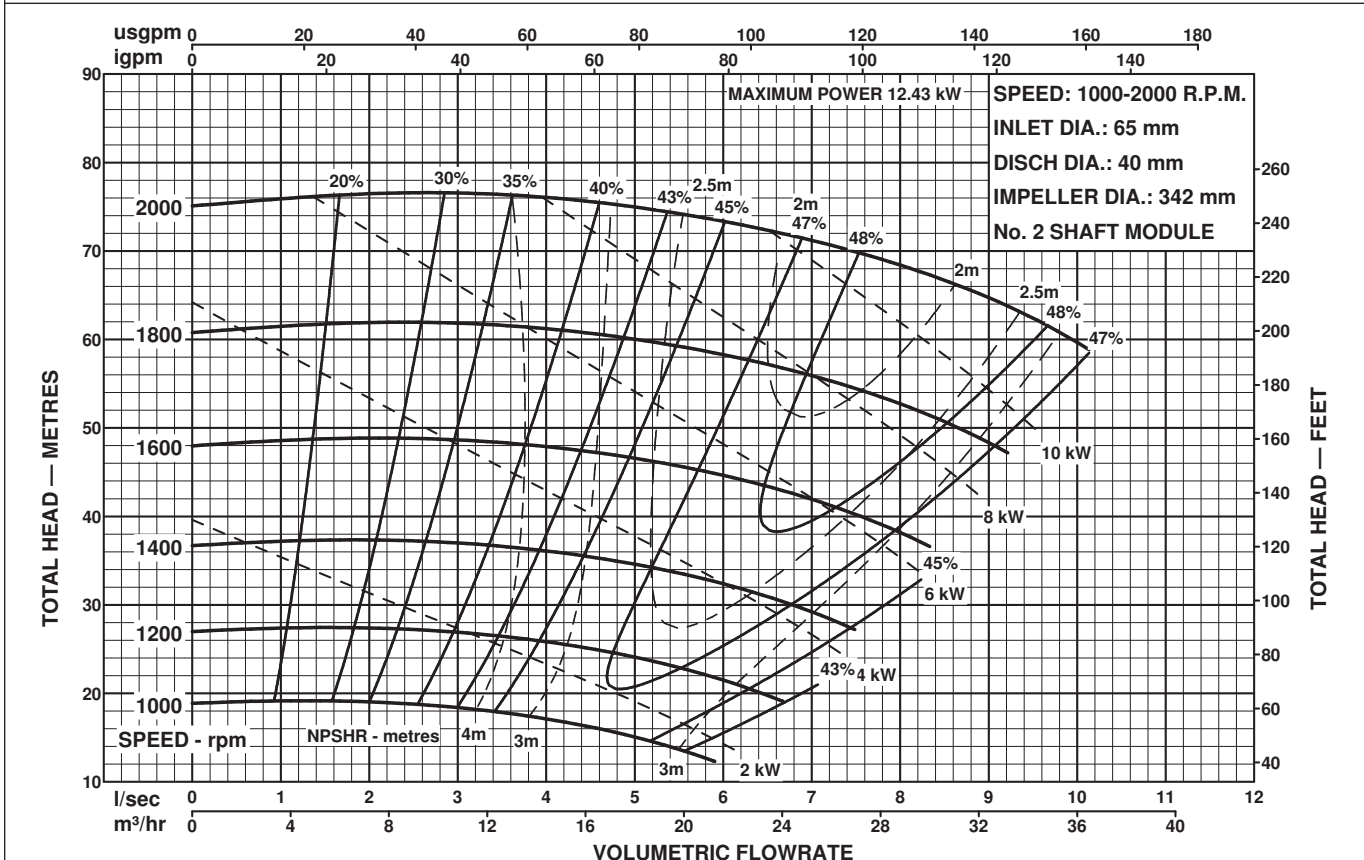


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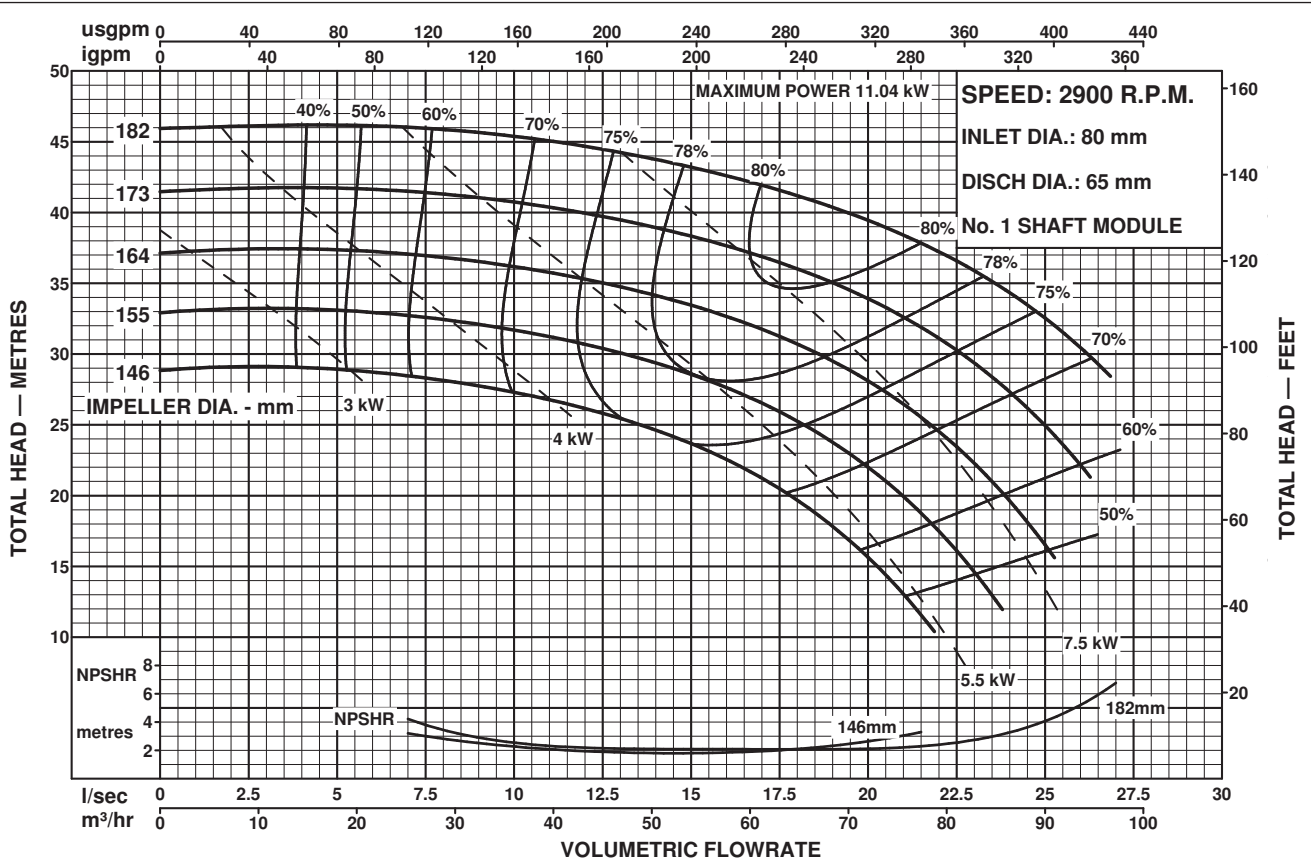
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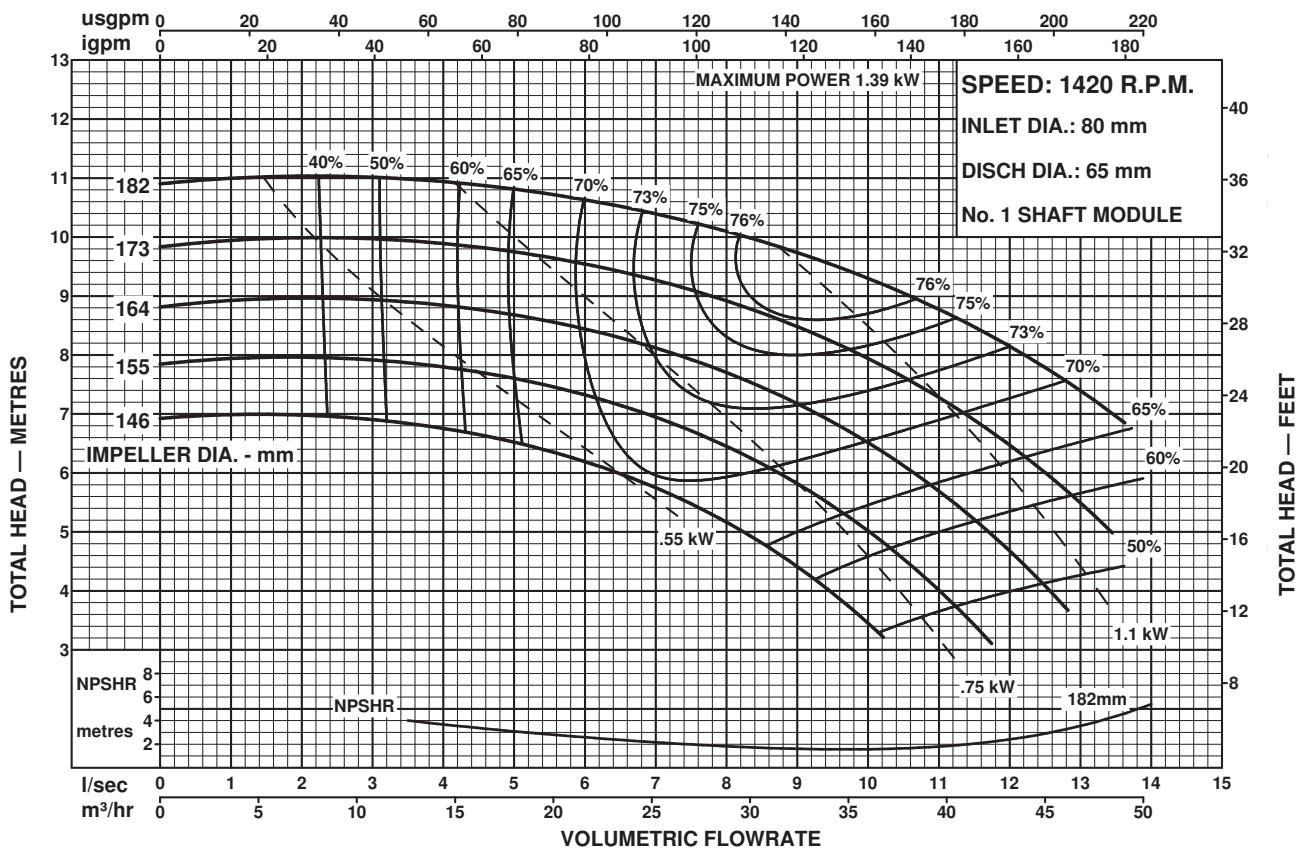
Sovereign 80 x 65-160

CENTRIFUGAL PUMP PERFORMANCE DATA



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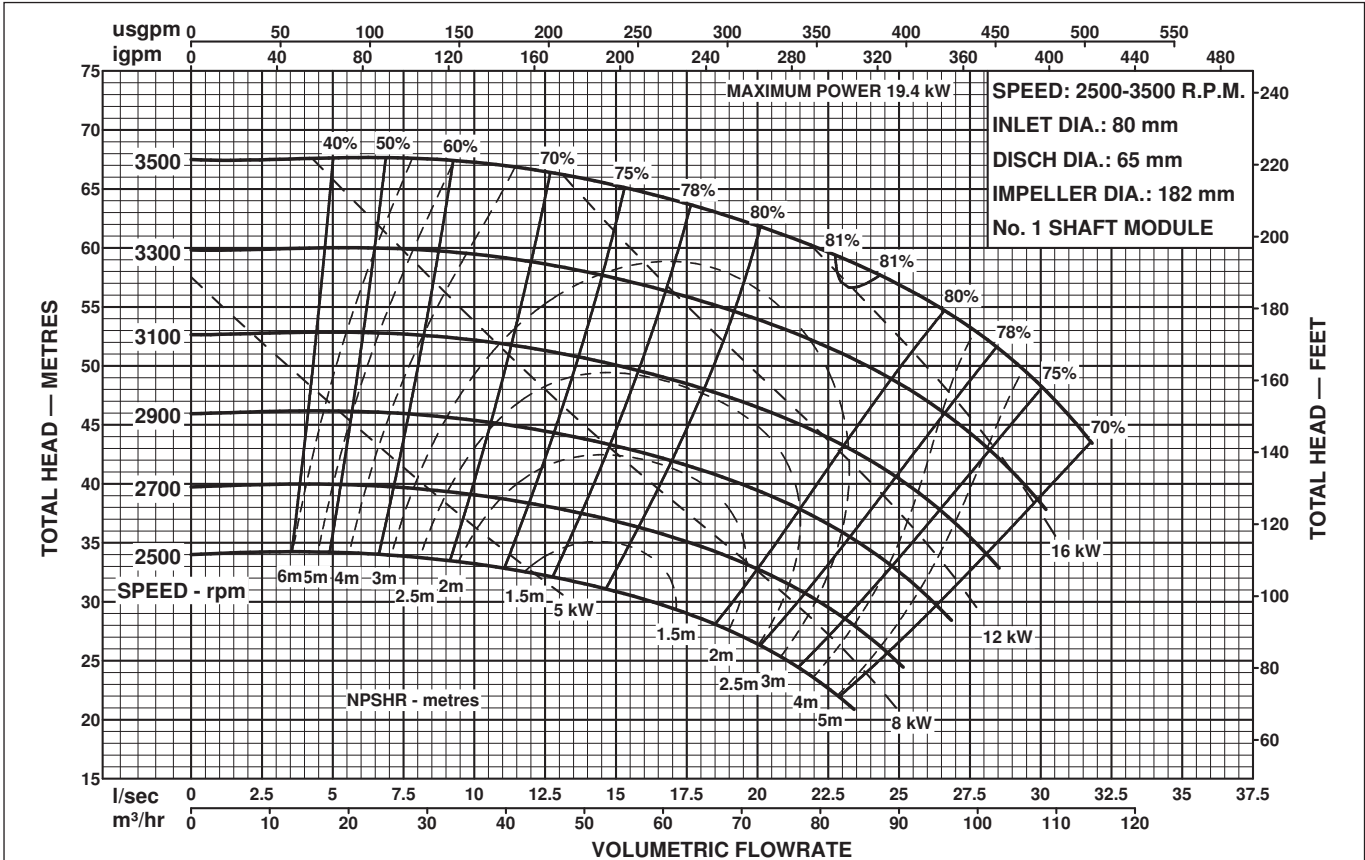
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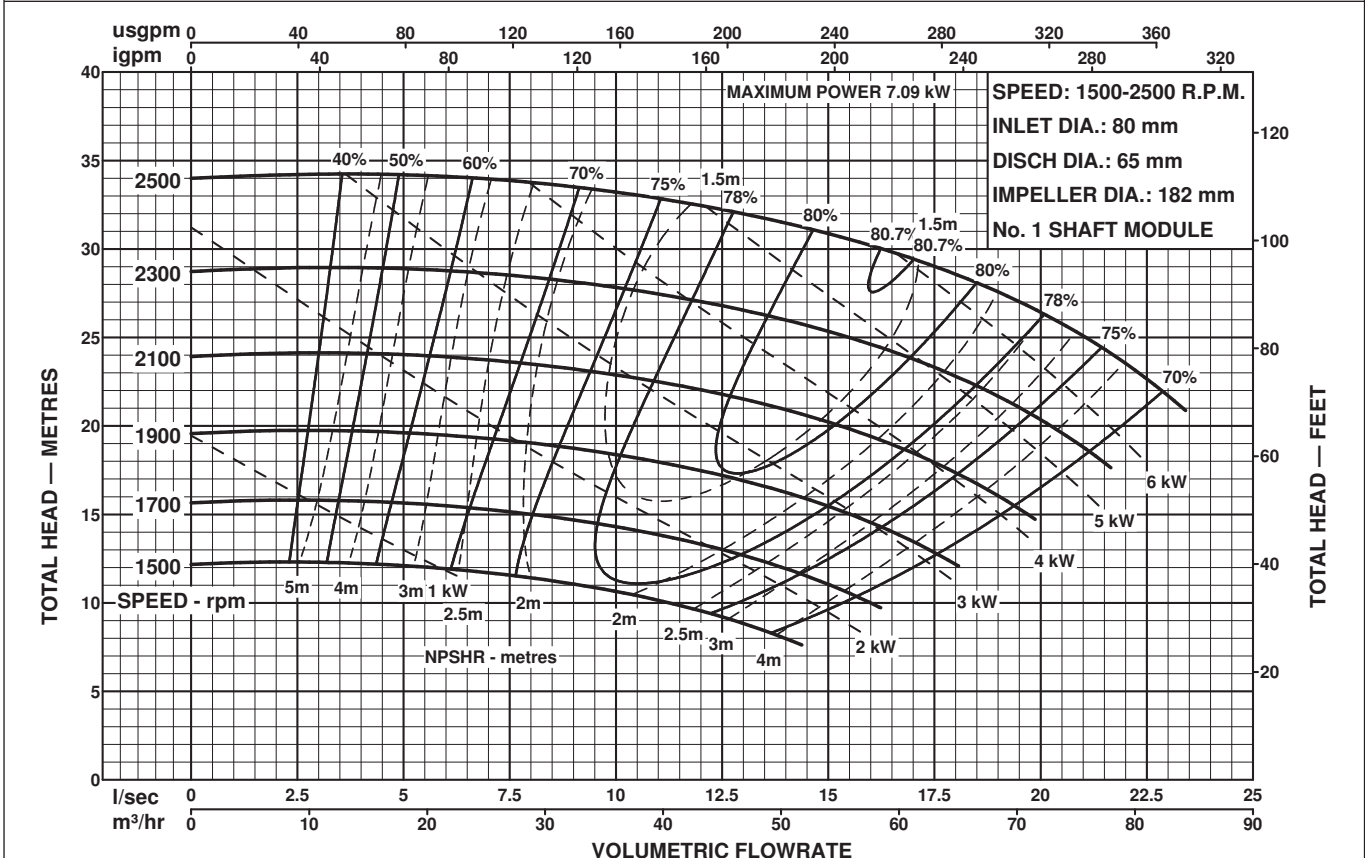


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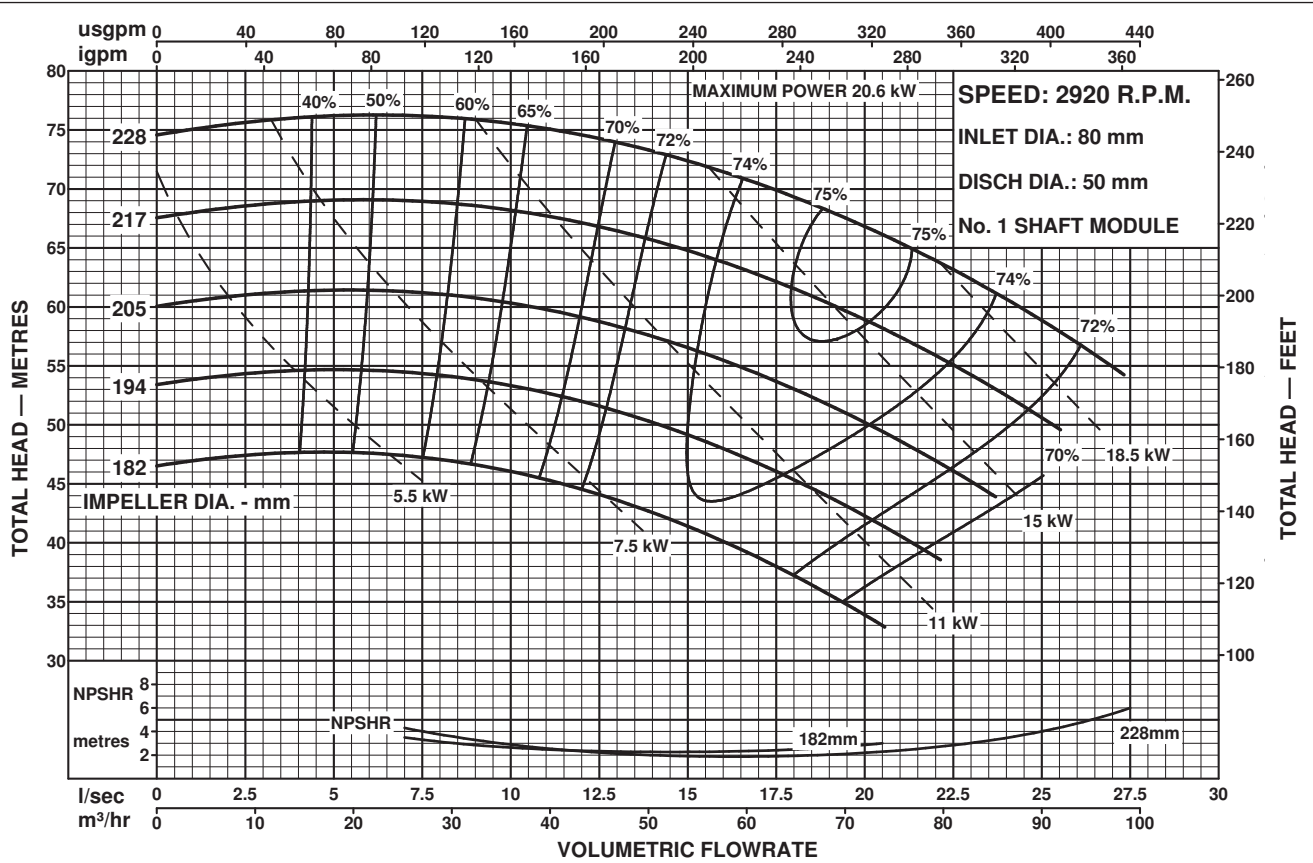
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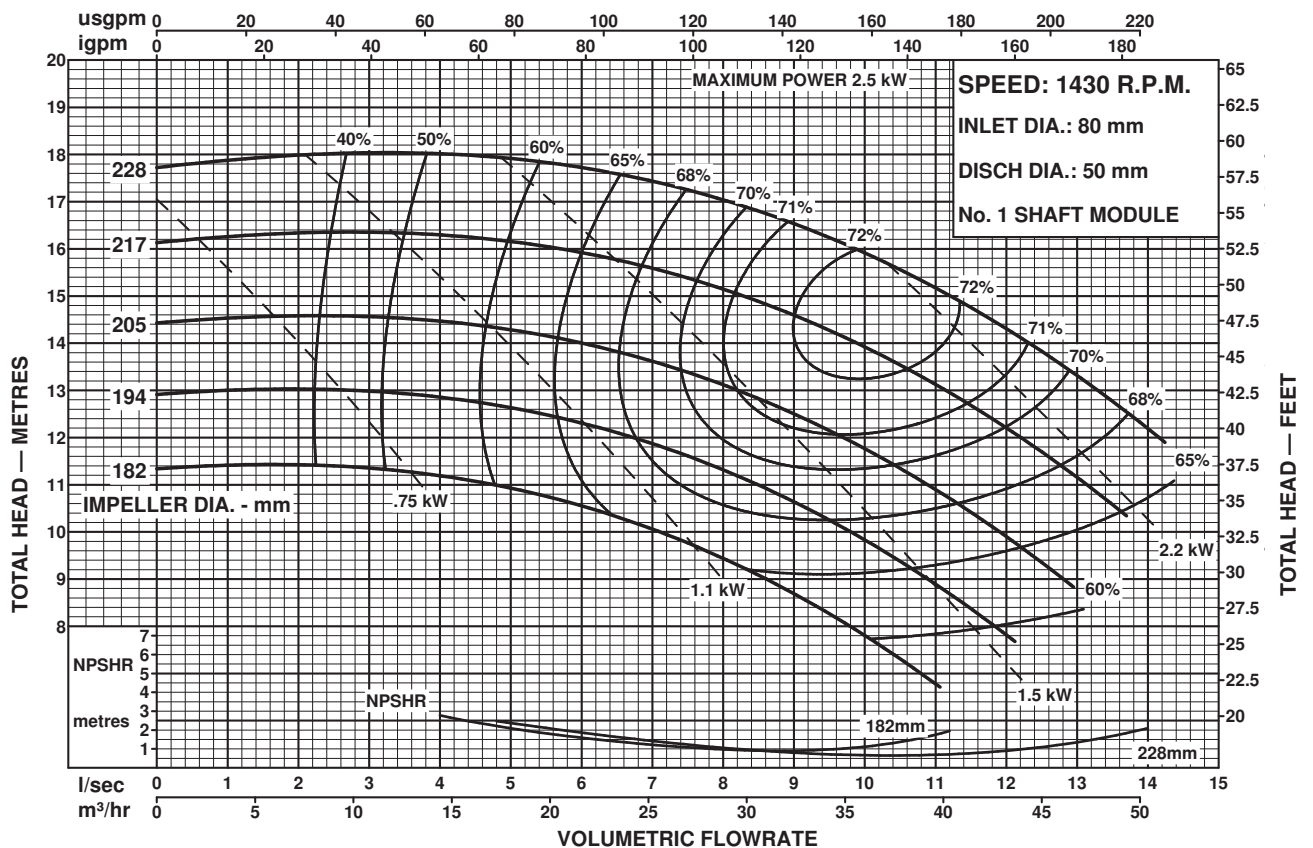
Sovereign 80 x 50-200

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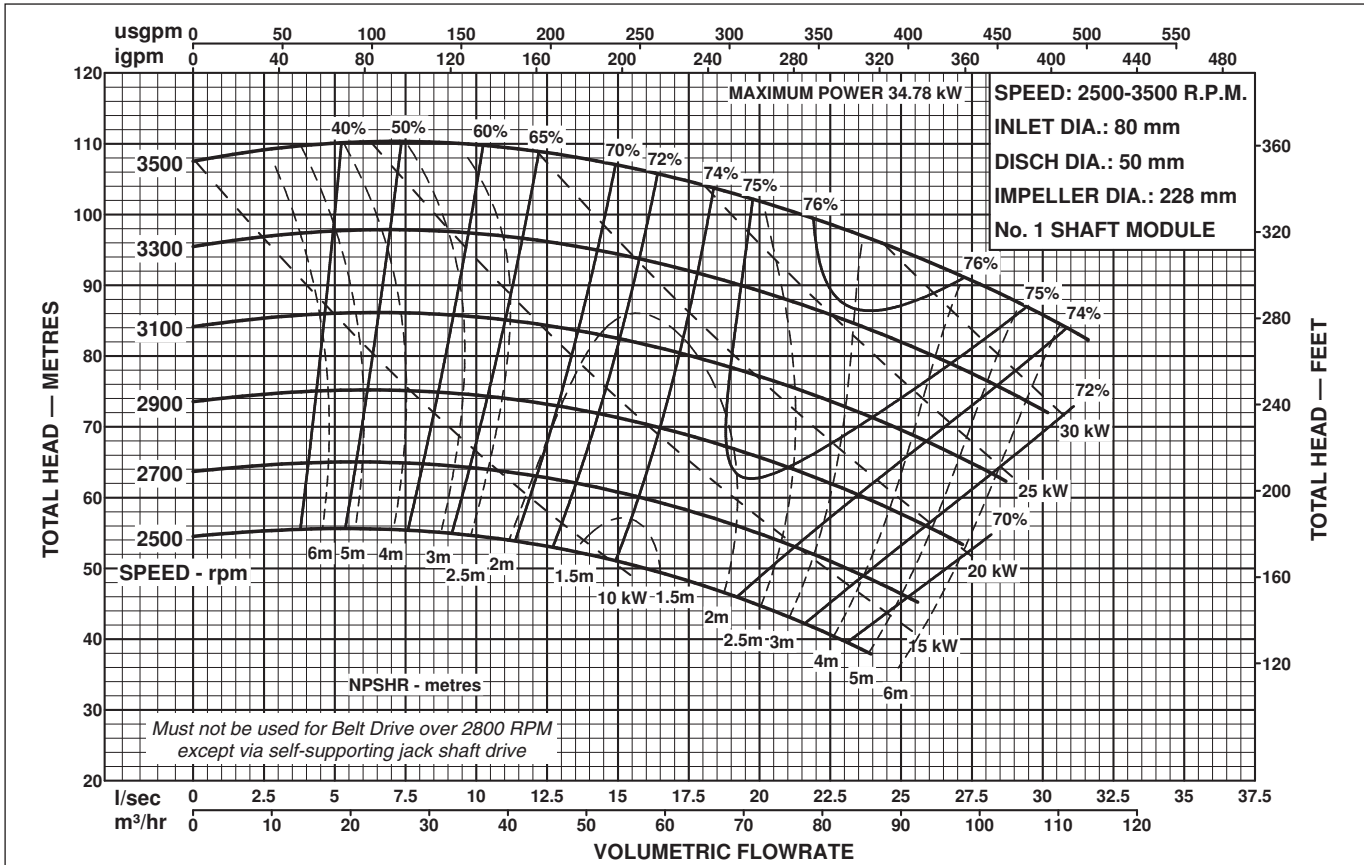
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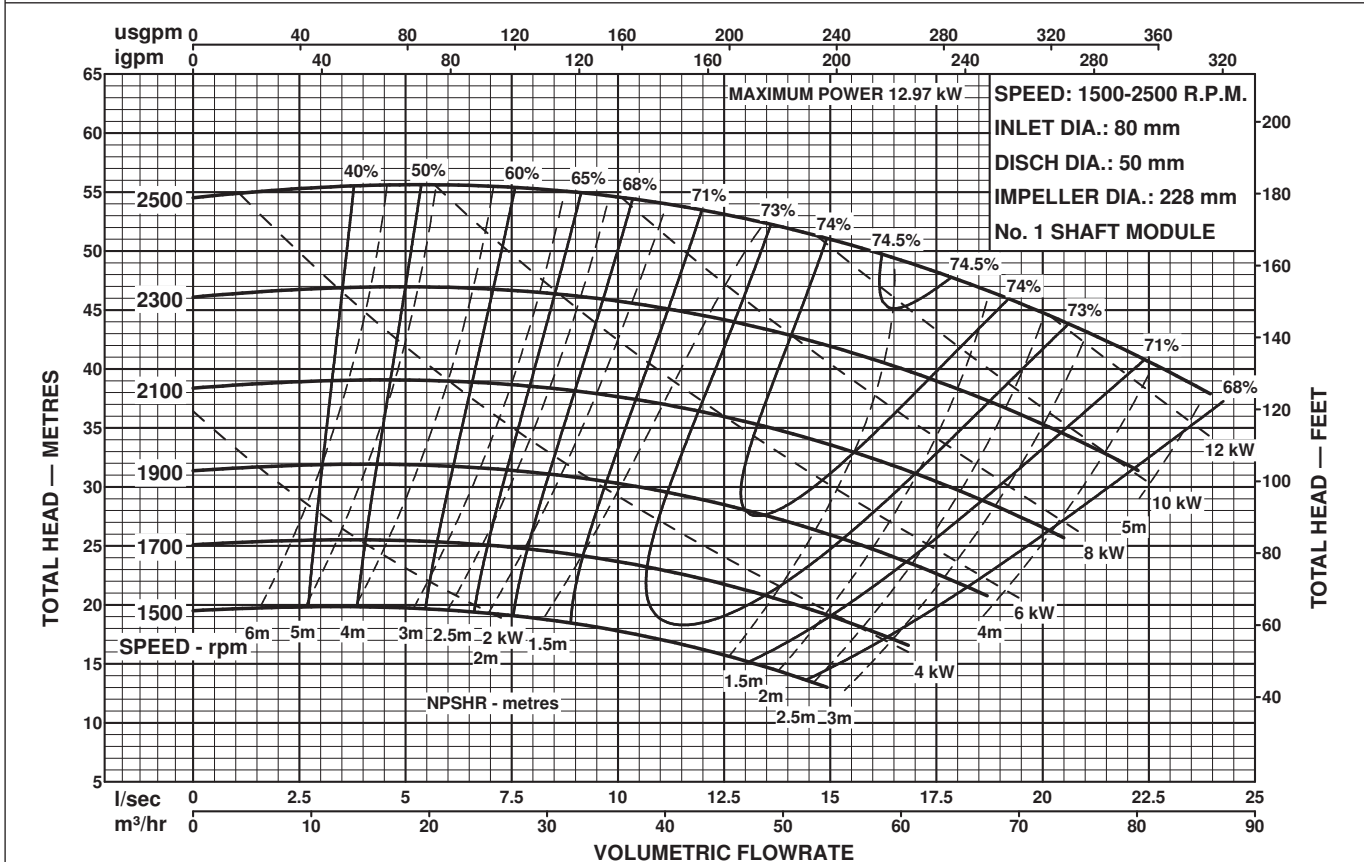


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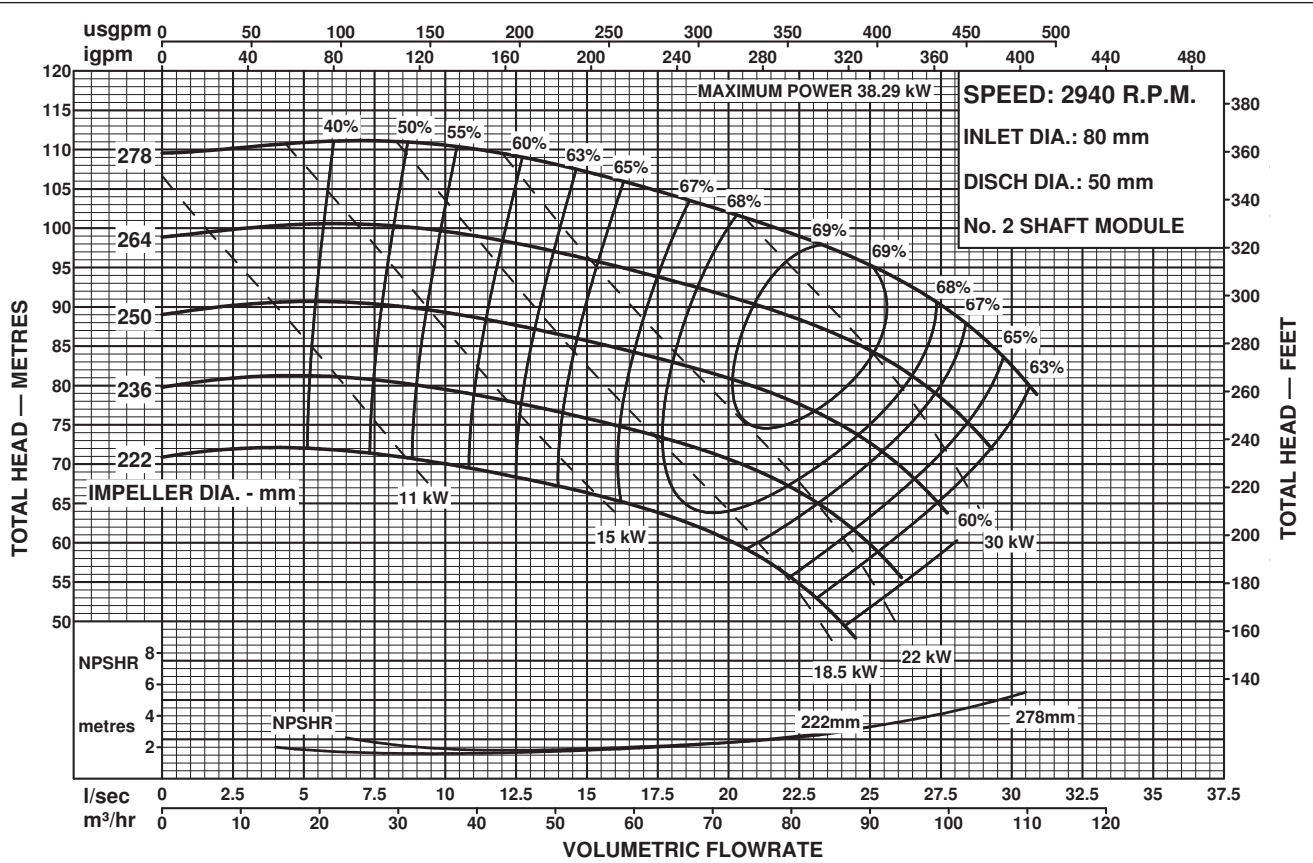
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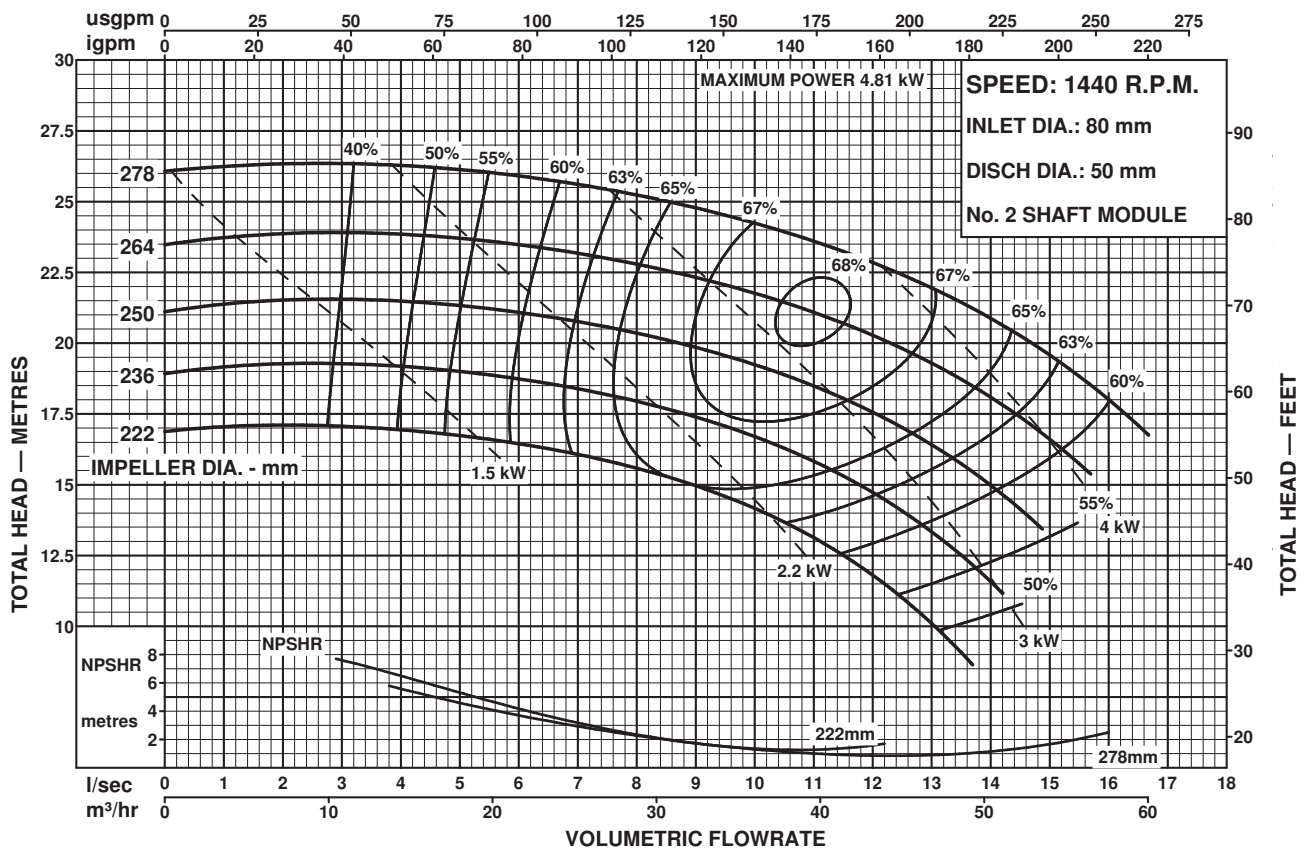
Sovereign 80 x 50-250

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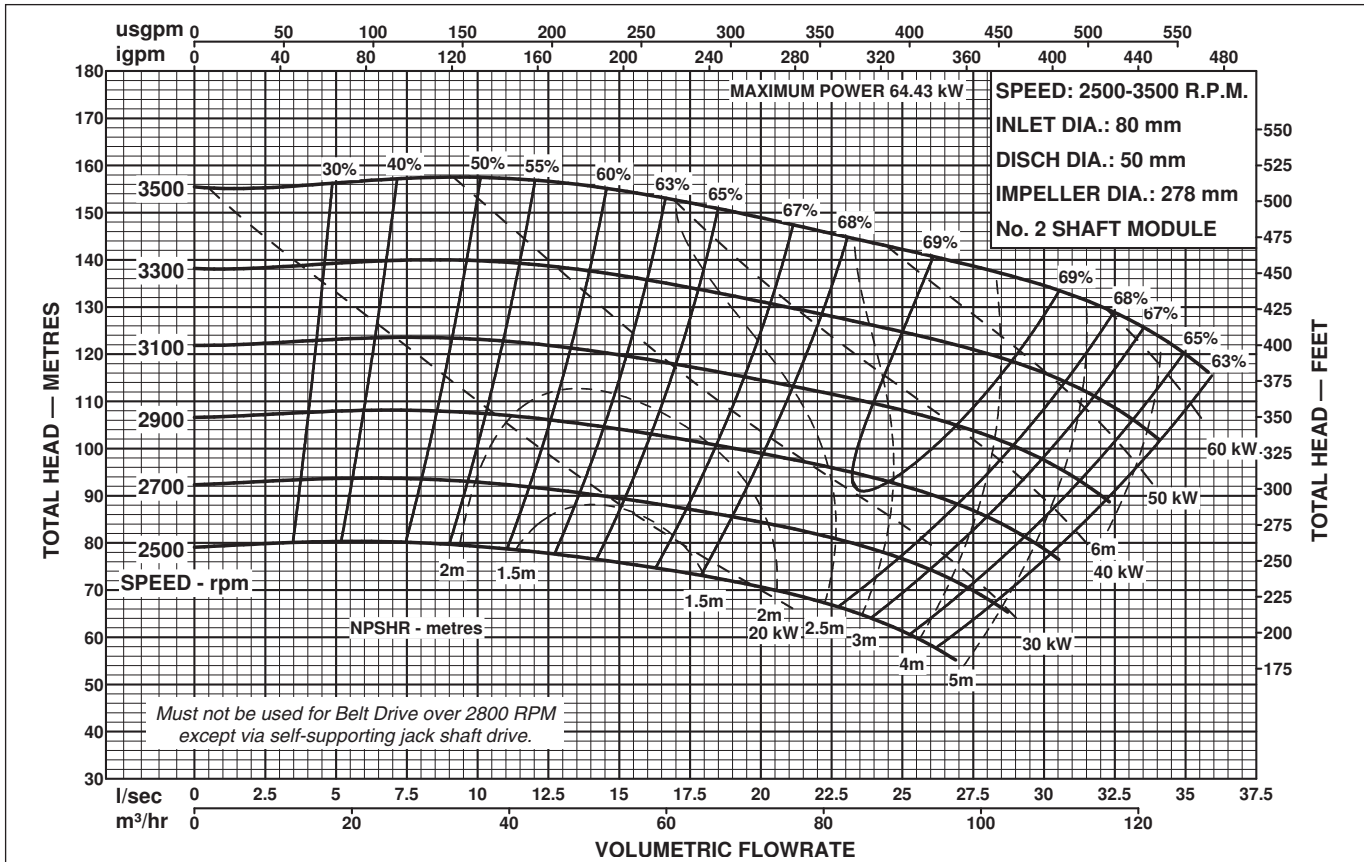
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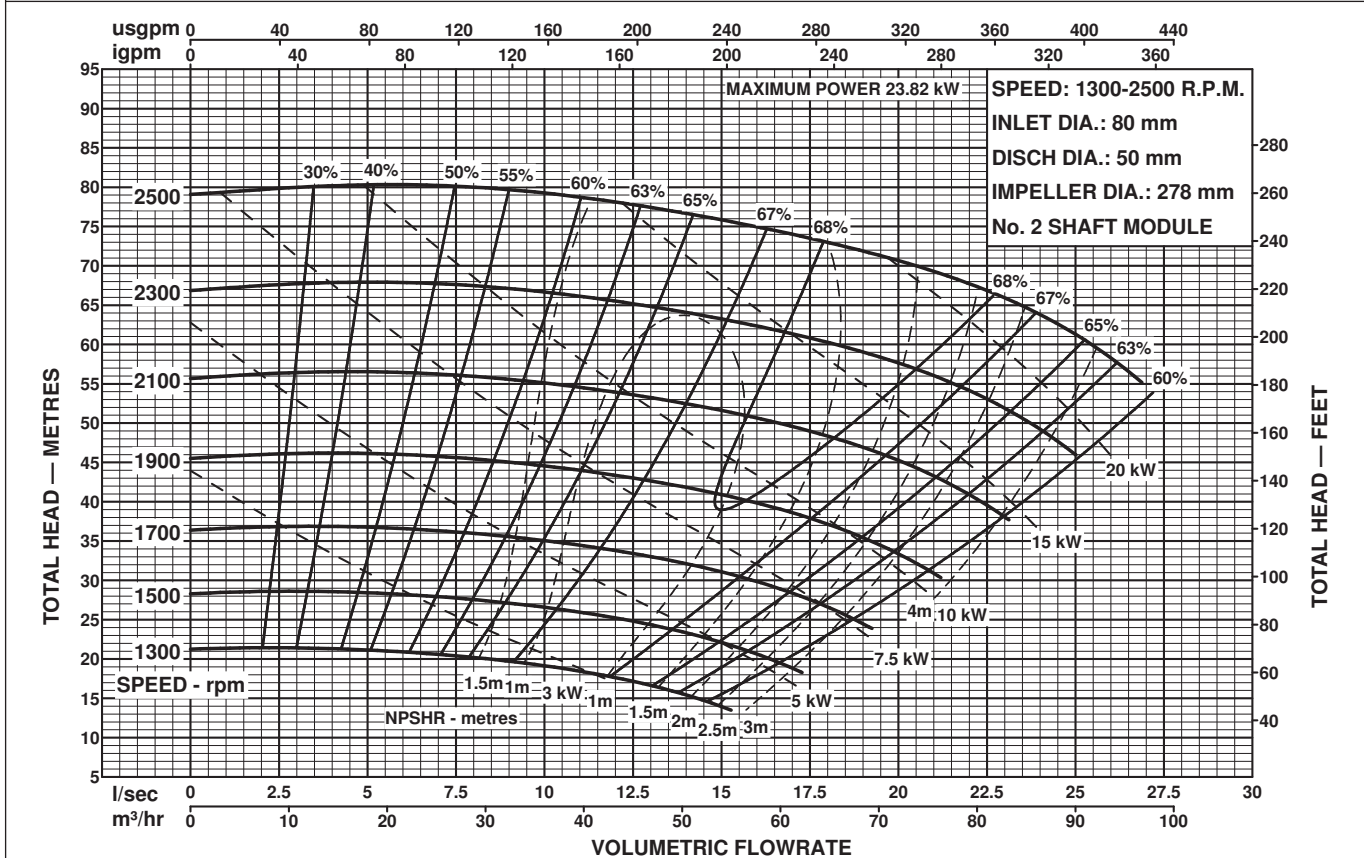


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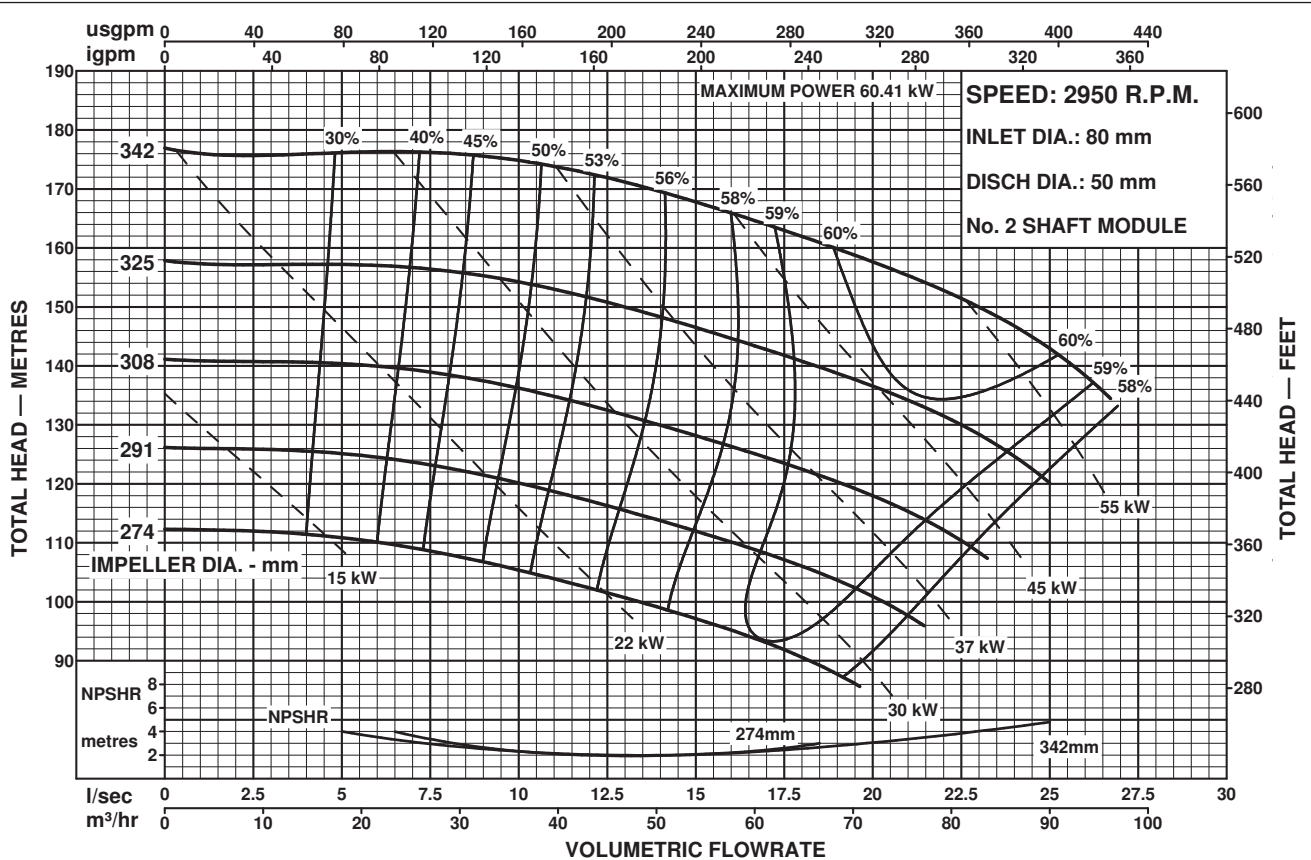


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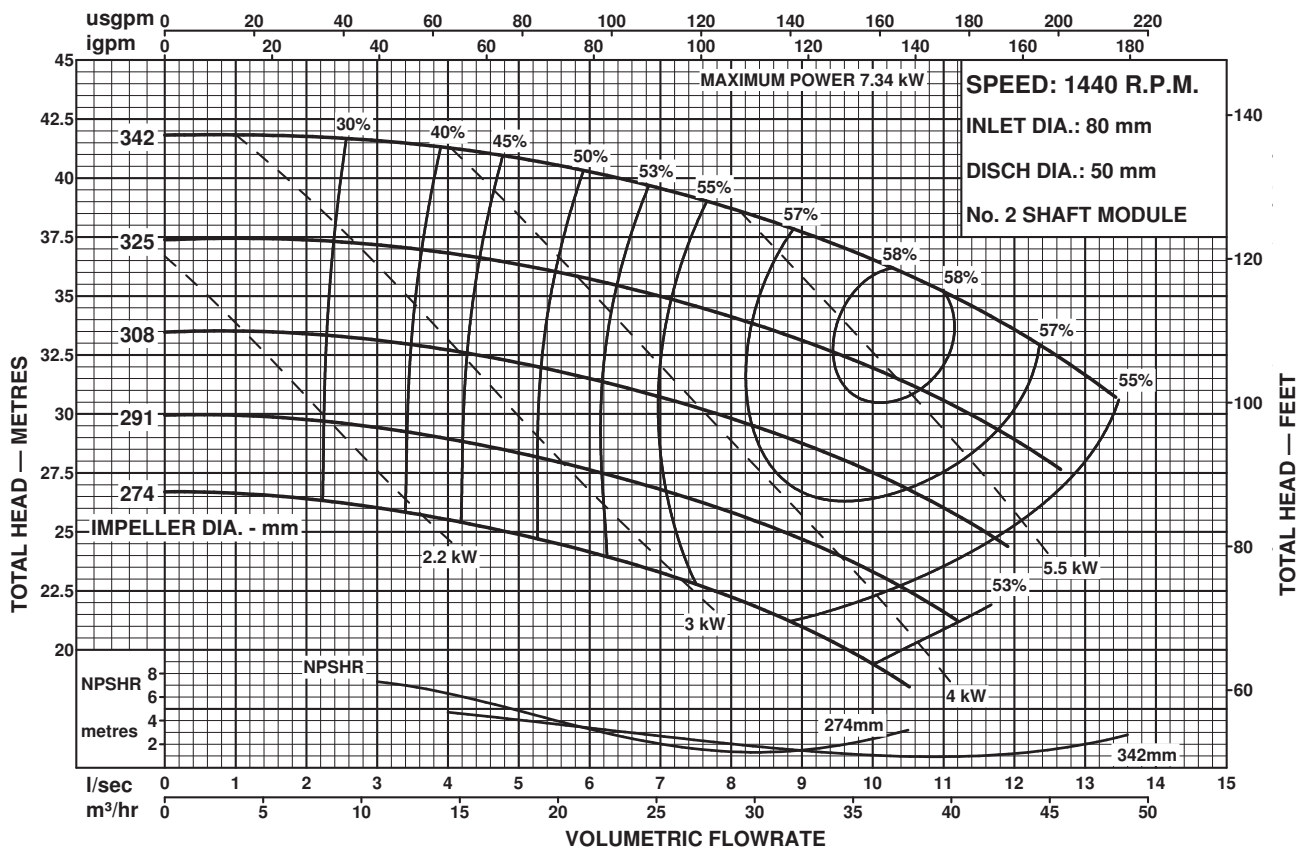


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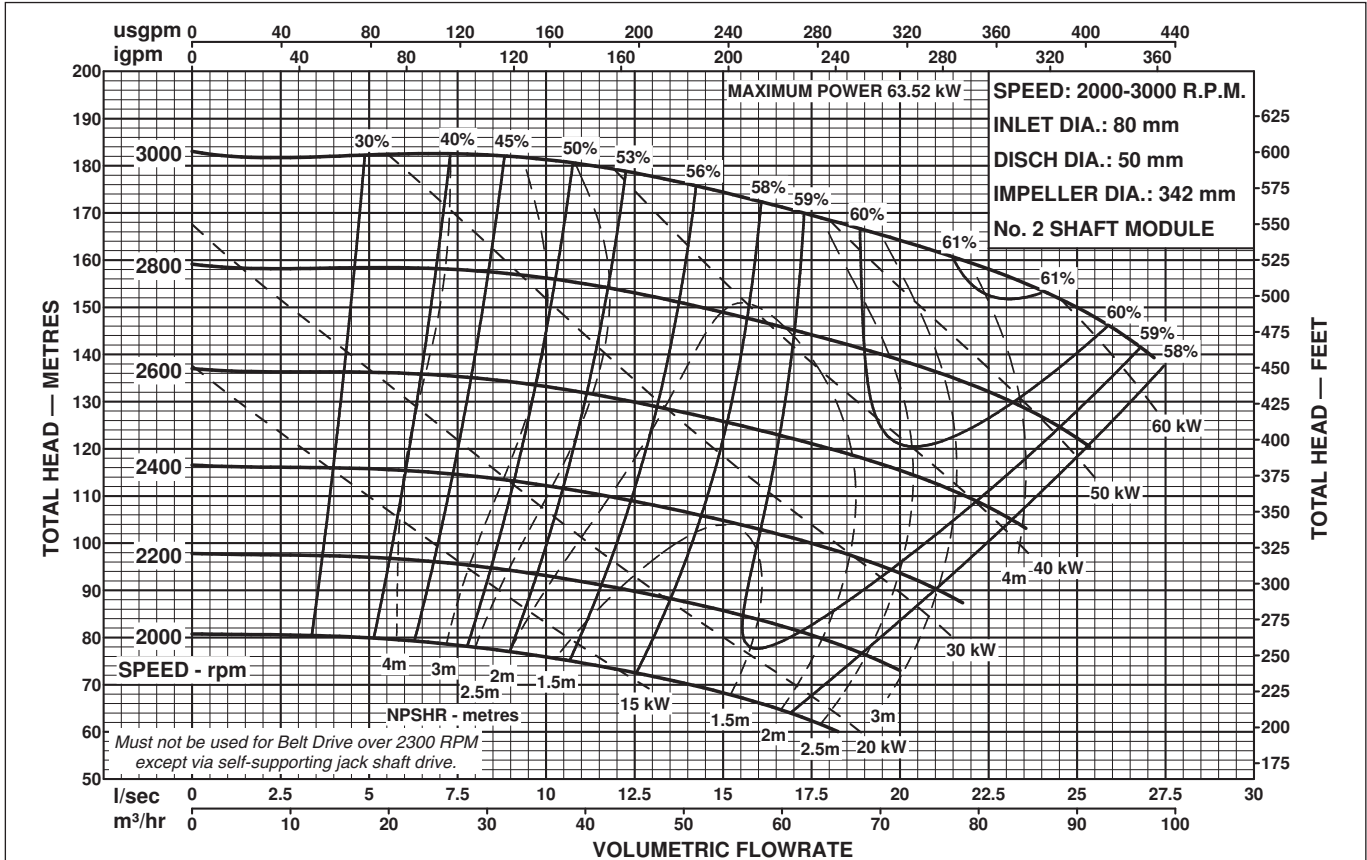
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80 x 50-315

Sovereign

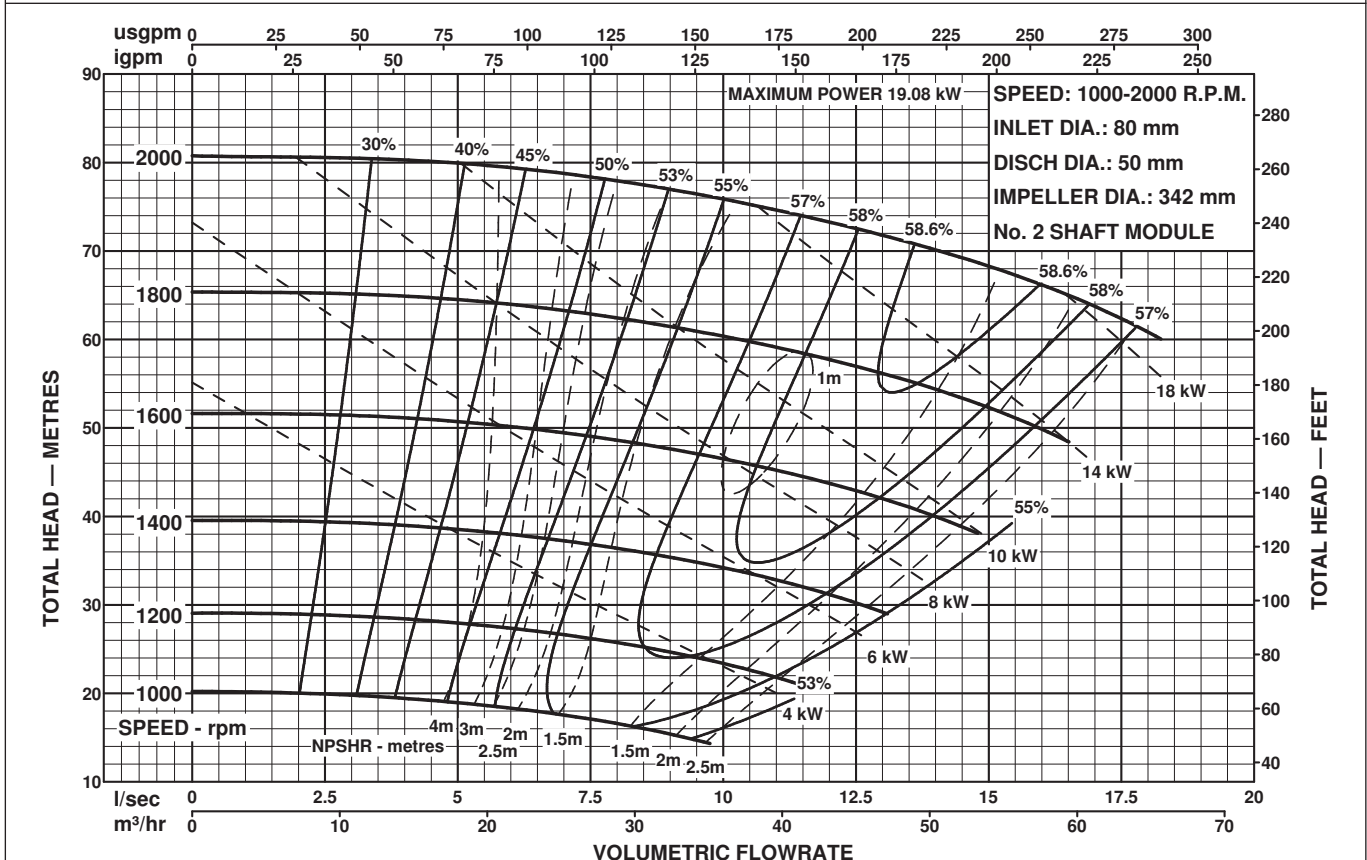


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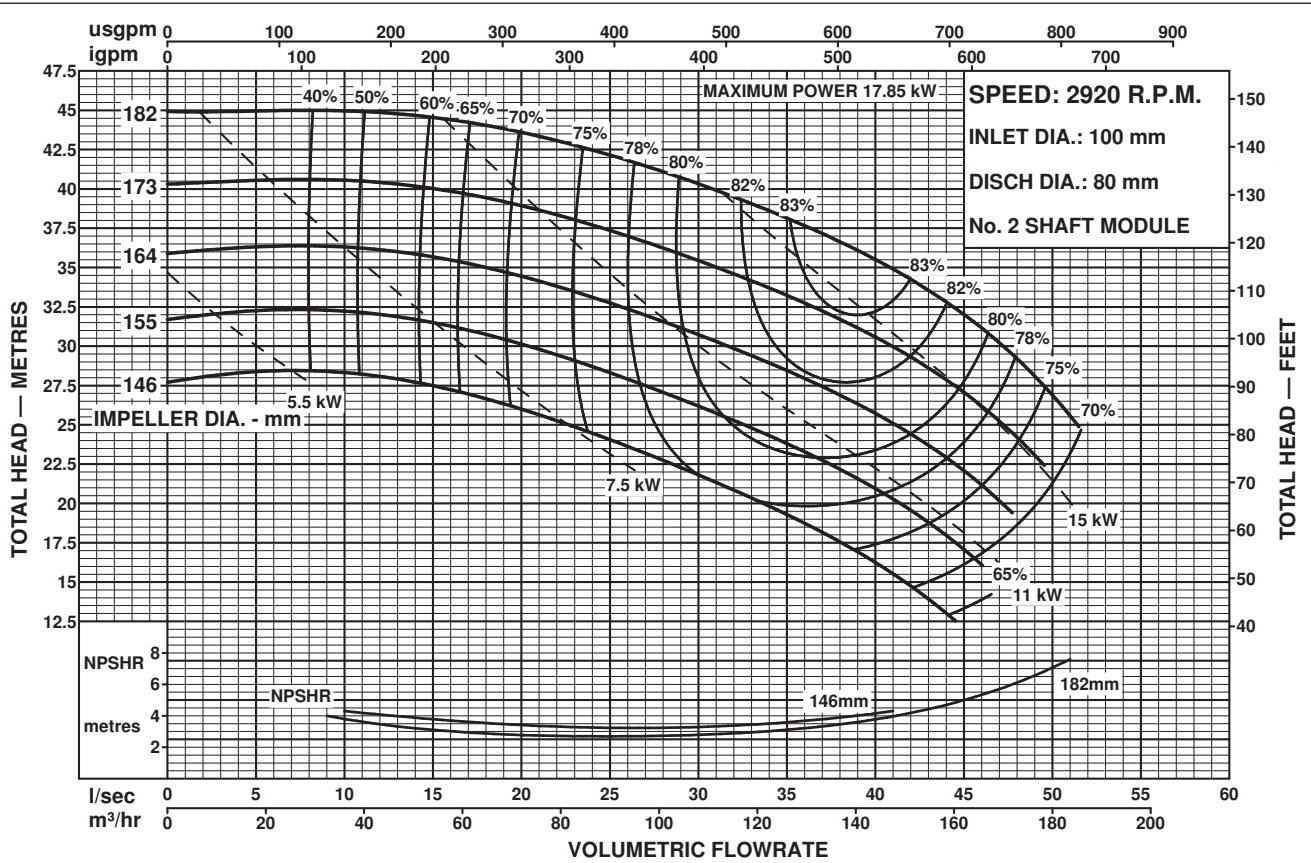


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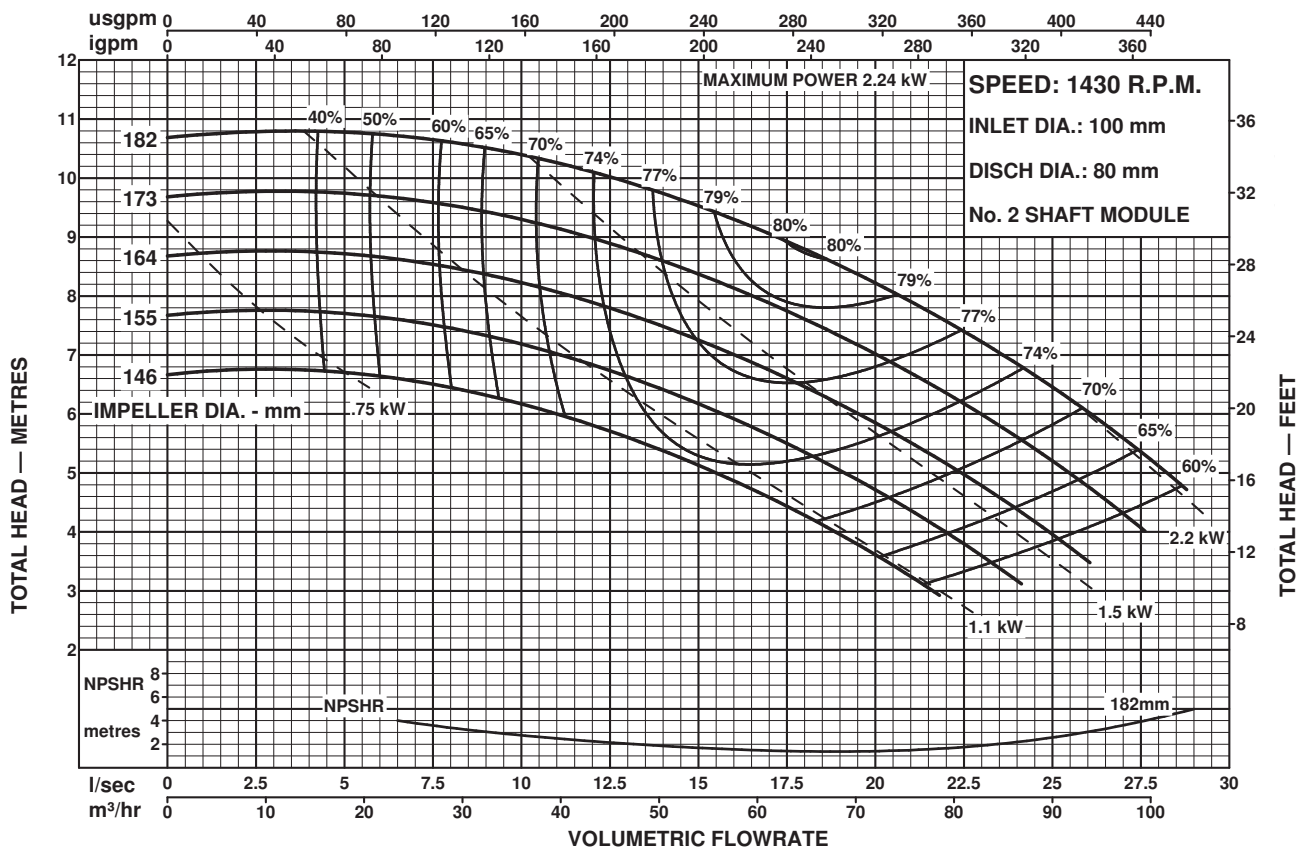


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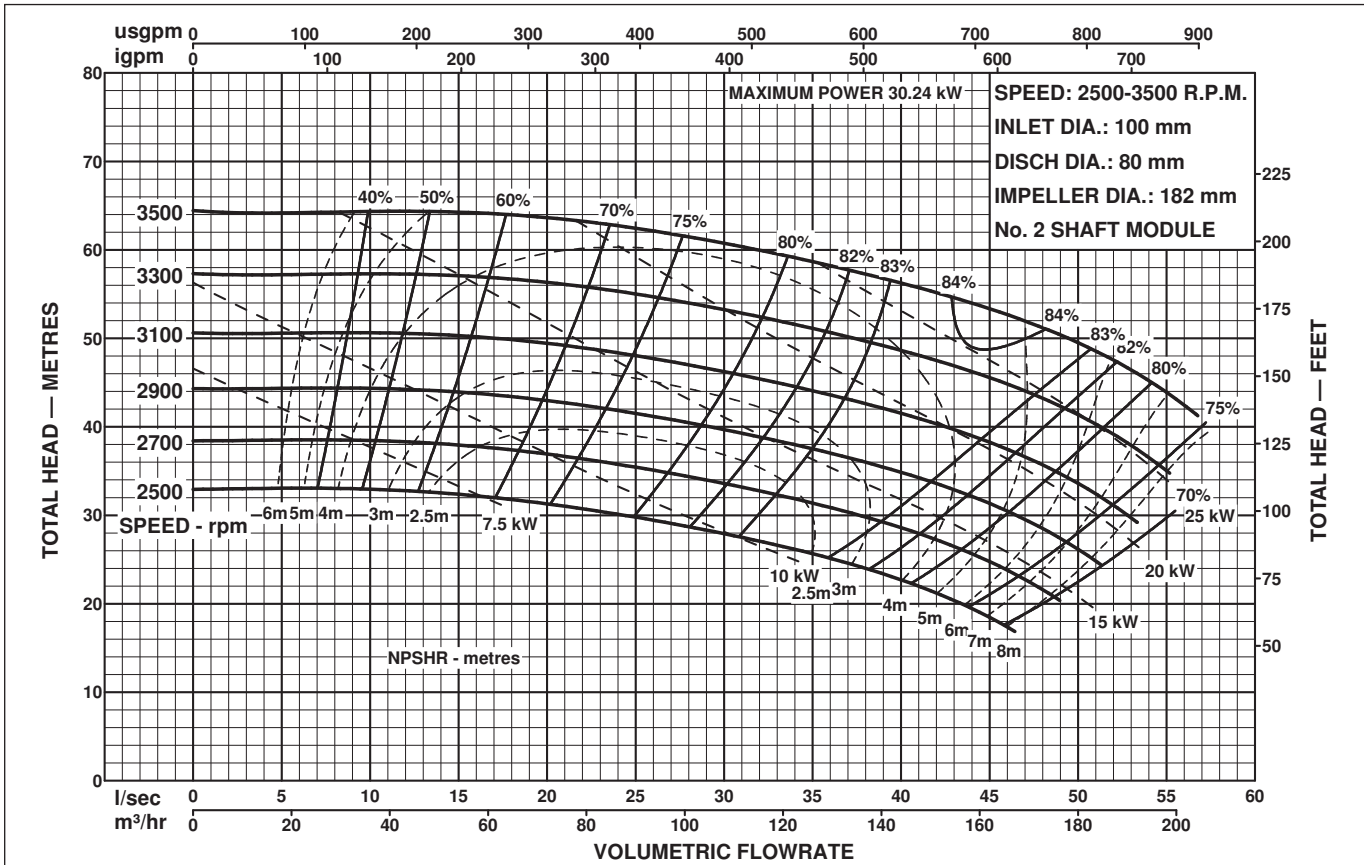
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100 x 80-160

SO Sovereign

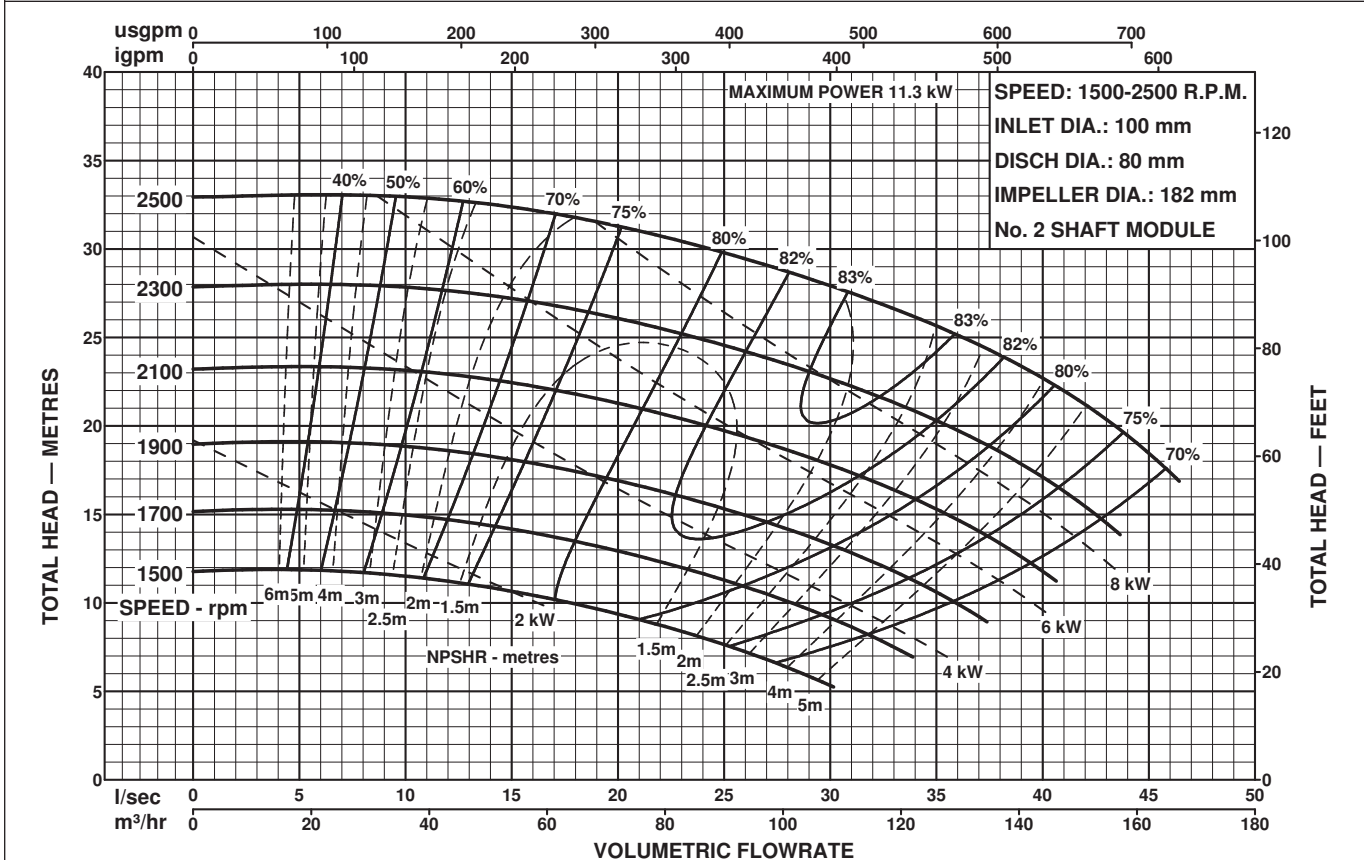


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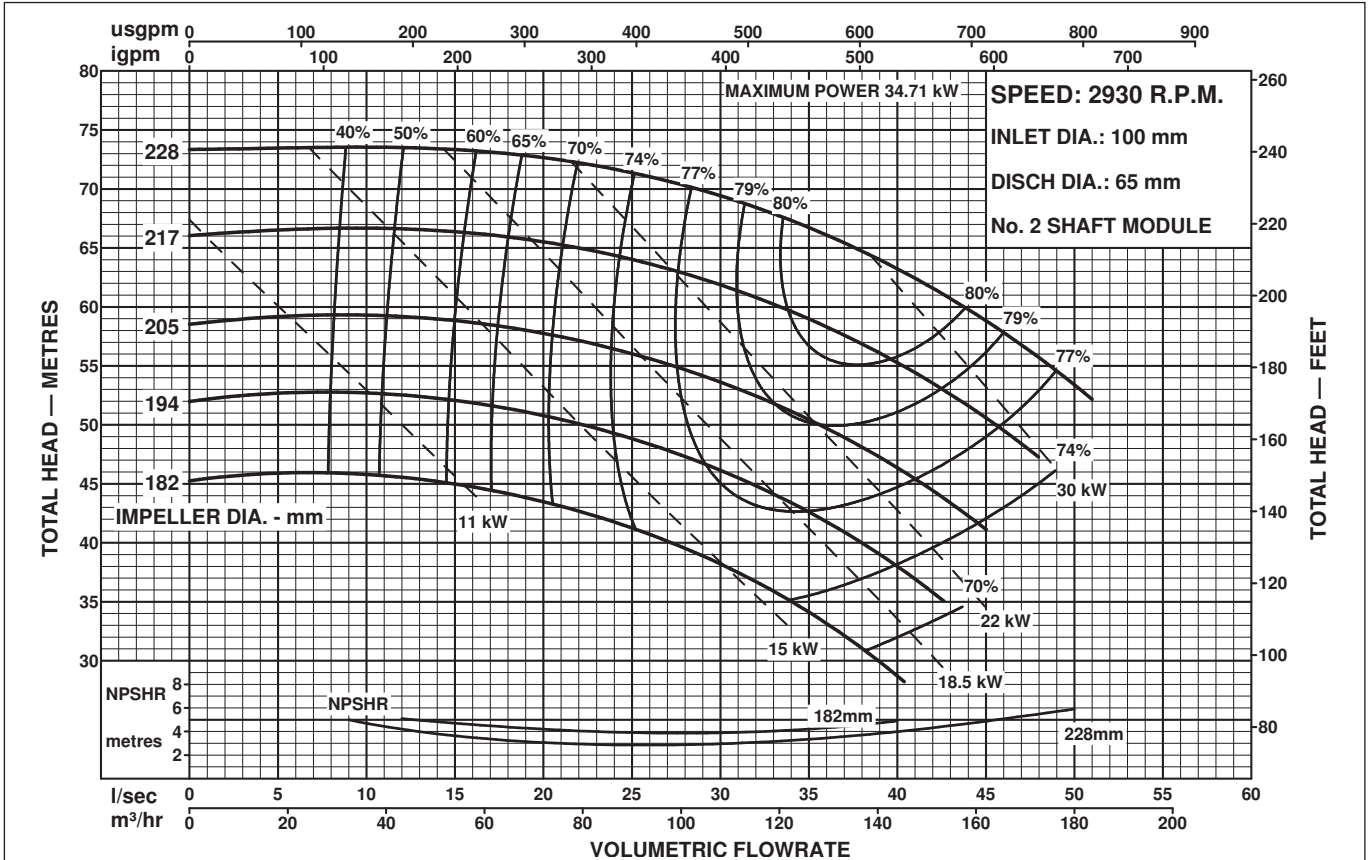
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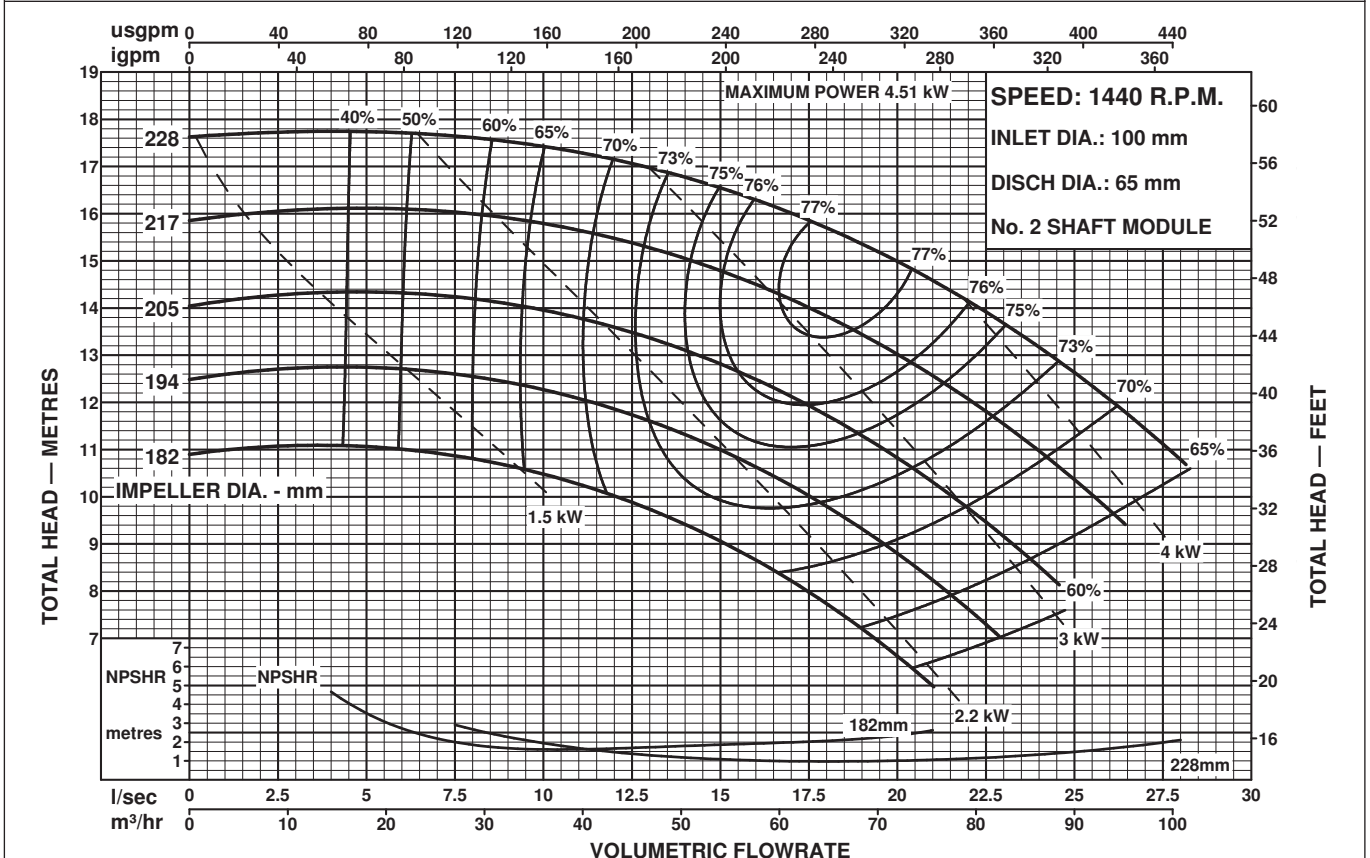
Sovereign 100 x 65-200

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May 2005



Performance to AS2417 Grade 2 for clean, cold water only.

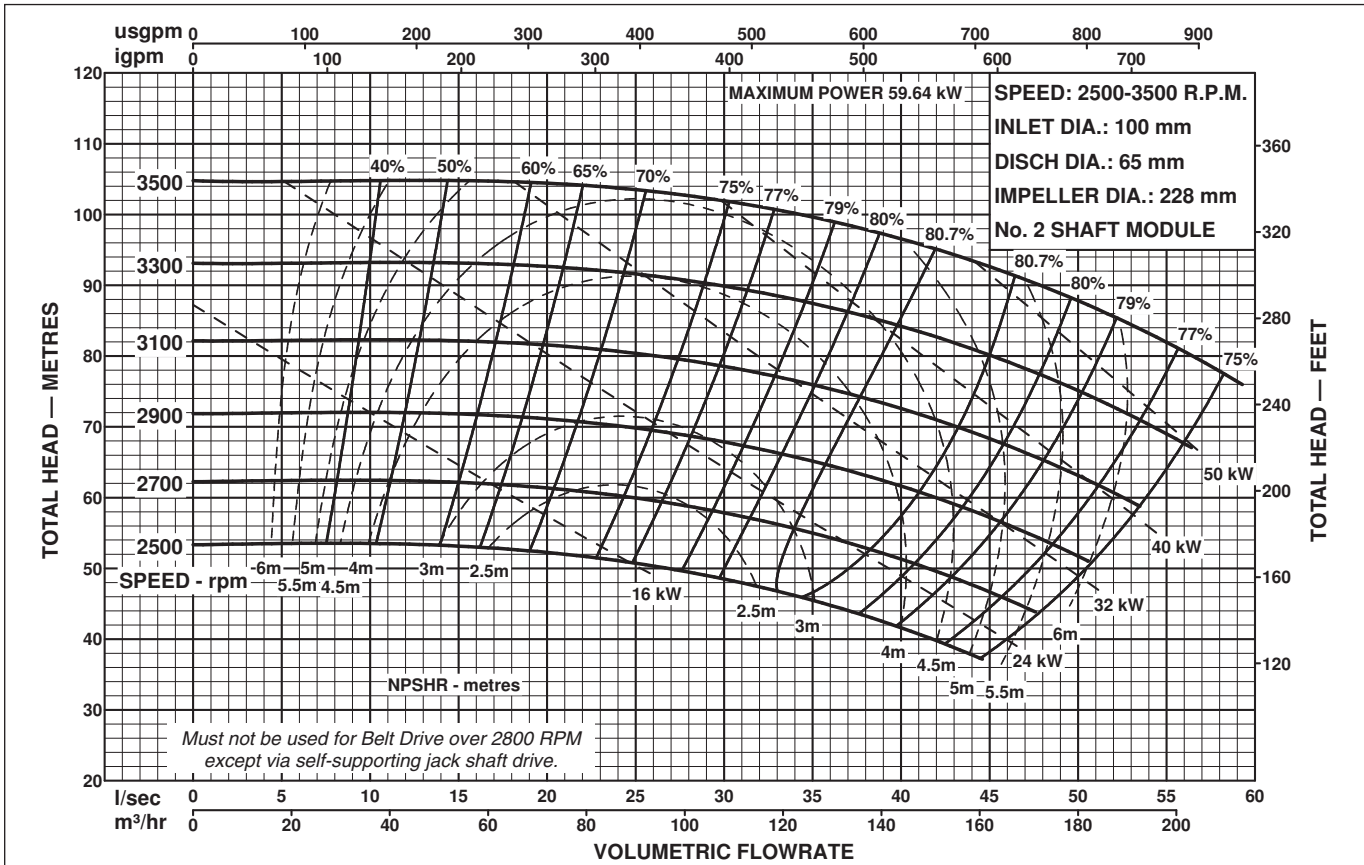
May 2005

100 x 65-200

SO Sovereign

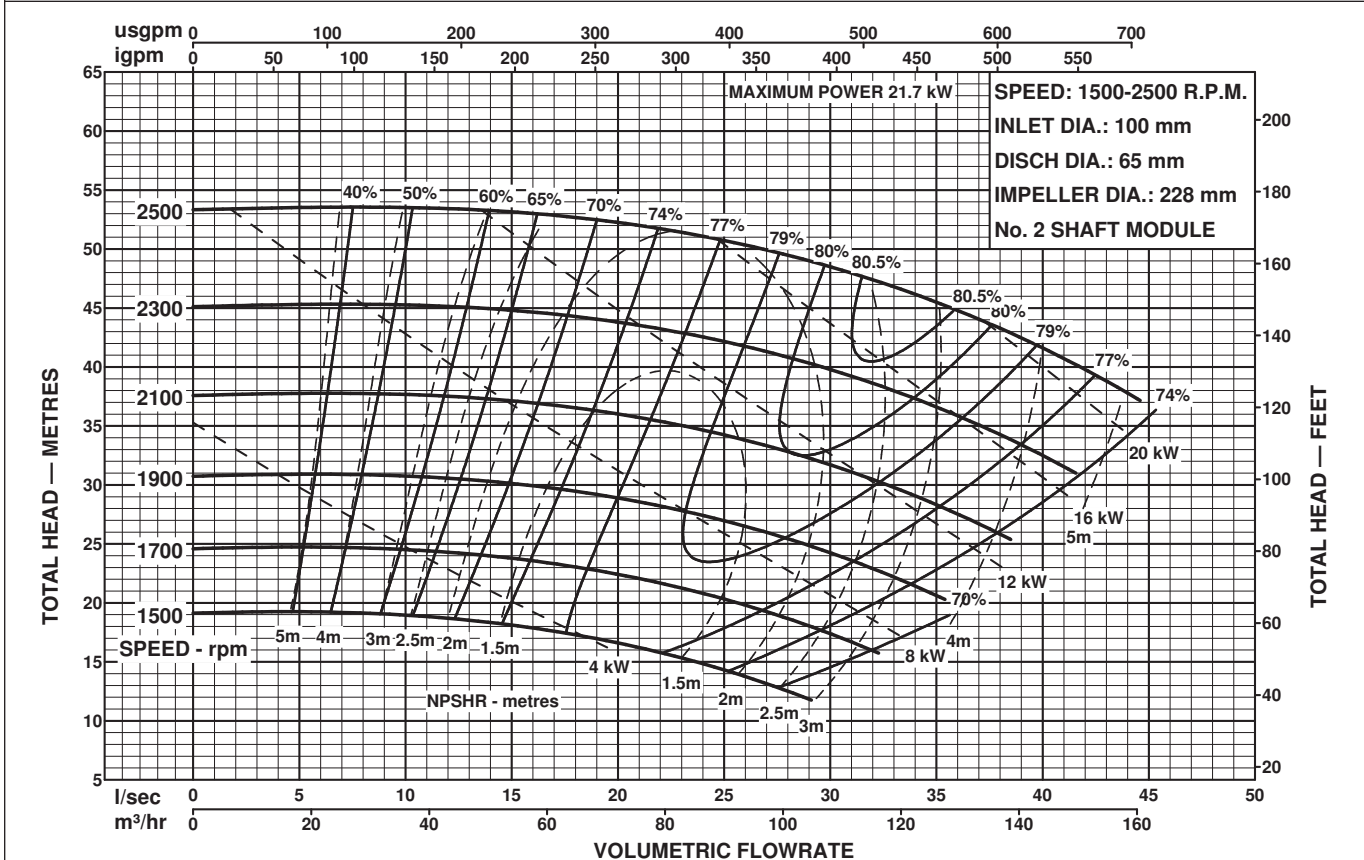


CENTRIFUGAL PUMP PERFORMANCE DATA



Performance to AS2417 Grade 2 for clean, cold water only.

May 2005



Performance to AS2417 Grade 2 for clean, cold water only.

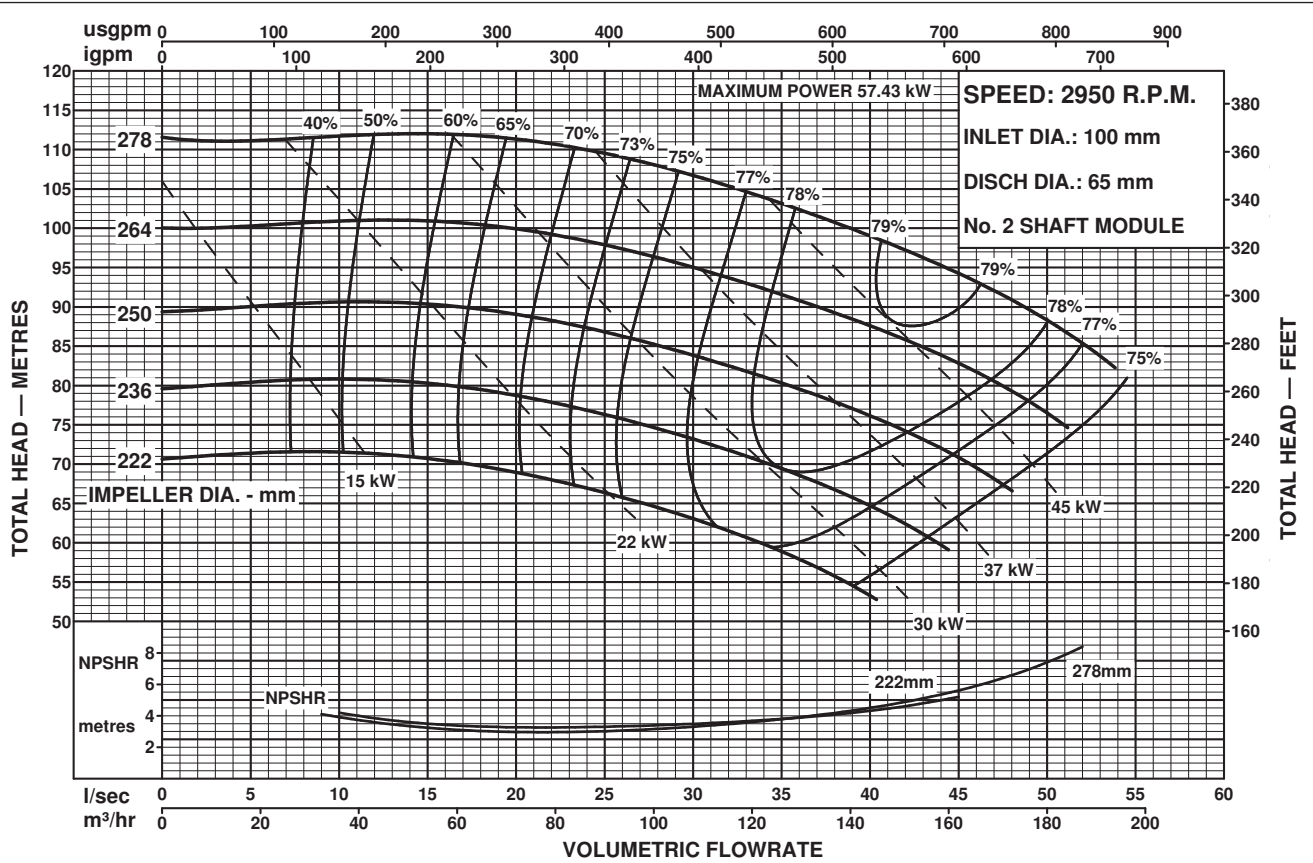
May 2005

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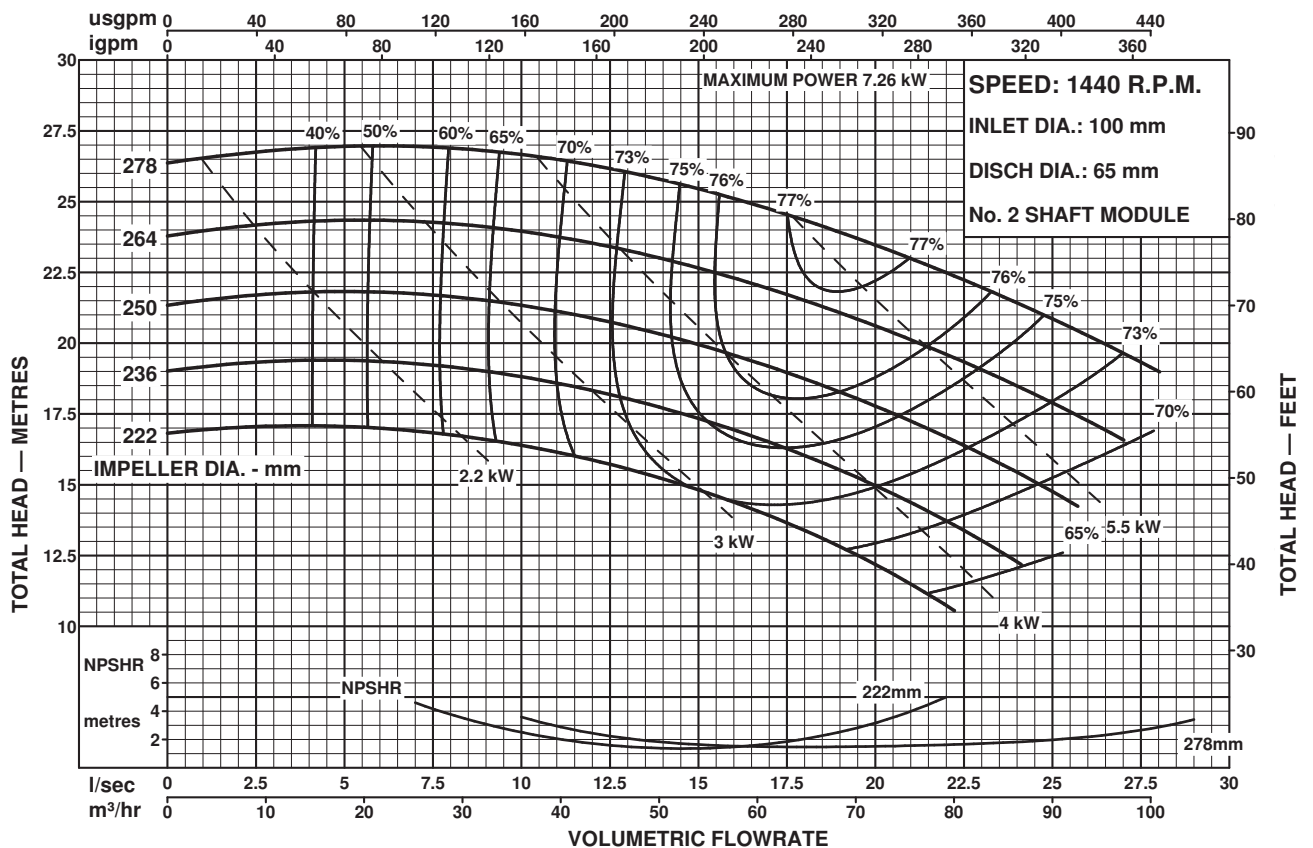
Sovereign 100 x 65-250

CENTRIFUGAL PUMP PERFORMANCE DATA



Performance to AS2417 Grade 2 for clean, cold water only.

May 2005



Performance to AS2417 Grade 2 for clean, cold water only.

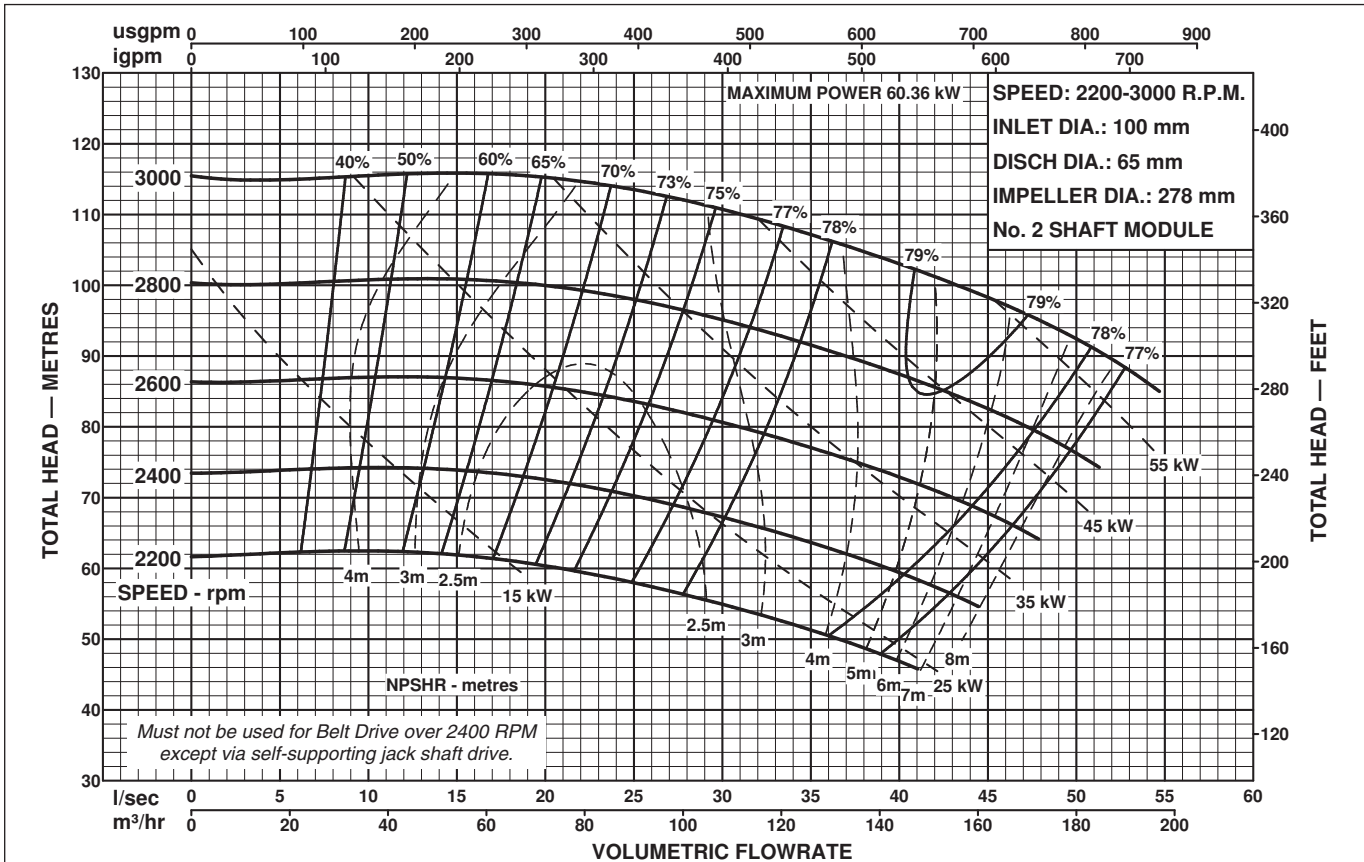
May 2005

100 x 65-250

Sovereign

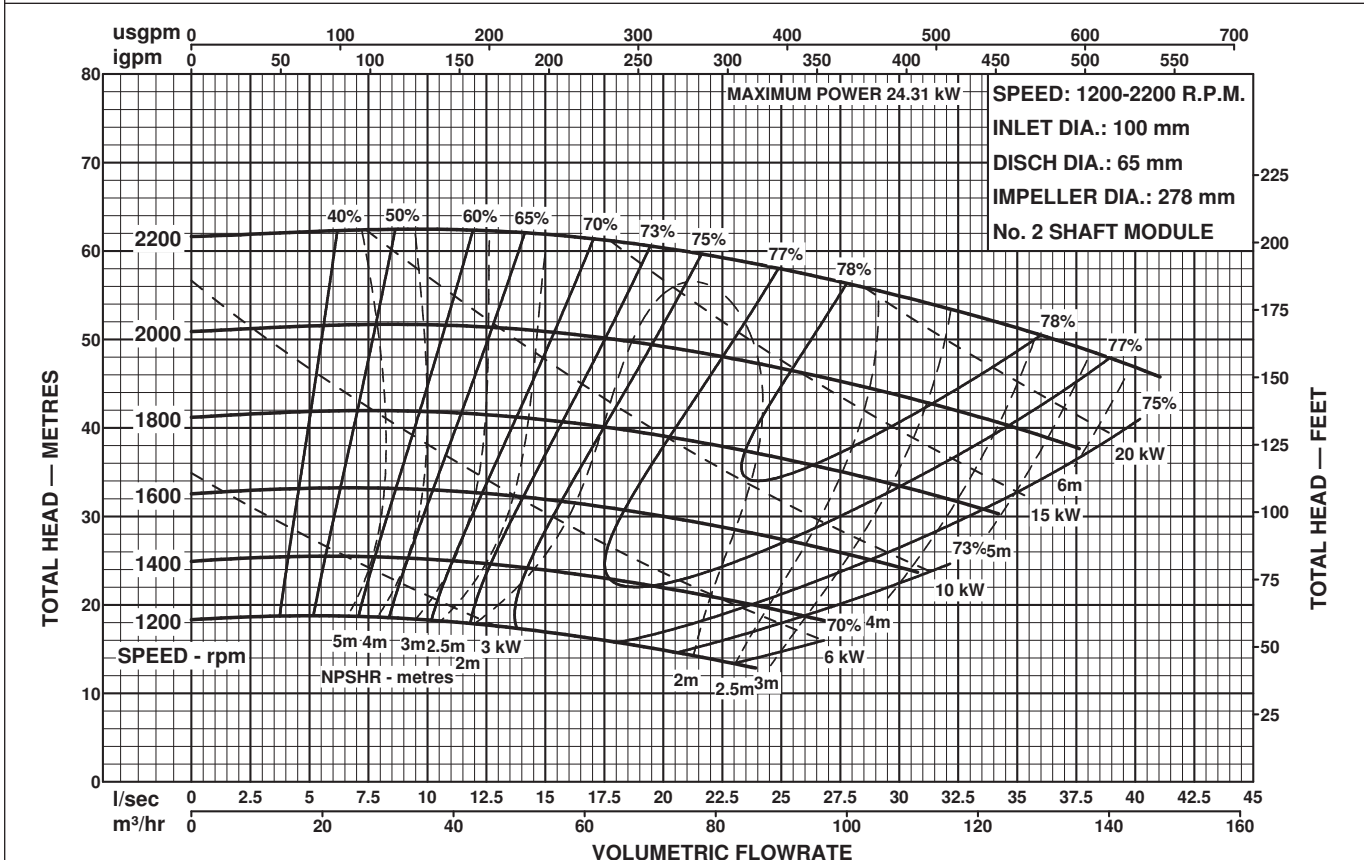


CENTRIFUGAL PUMP PERFORMANCE DATA



Performance to AS2417 Grade 2 for clean, cold water only.

May 2005



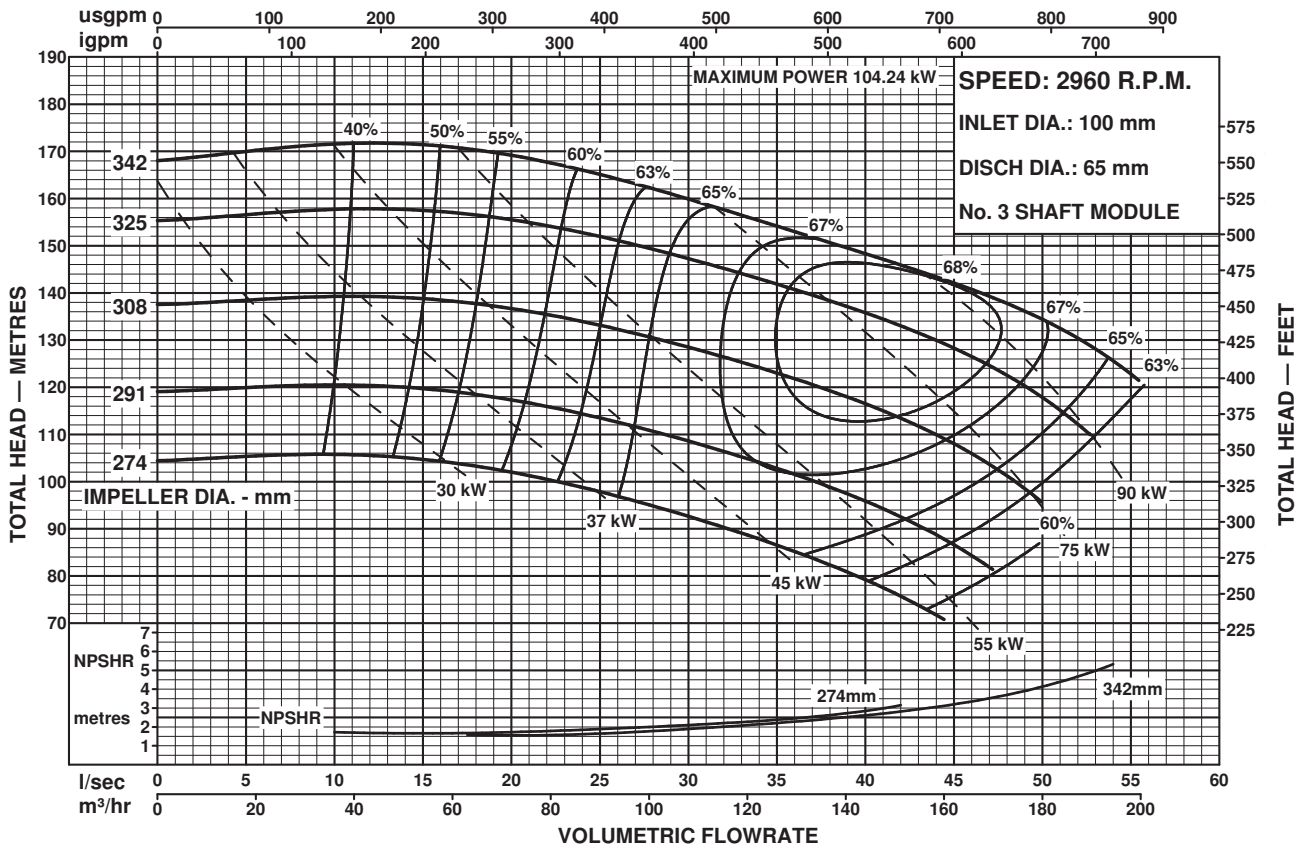
Performance to AS2417 Grade 2 for clean, cold water only.

May 2005

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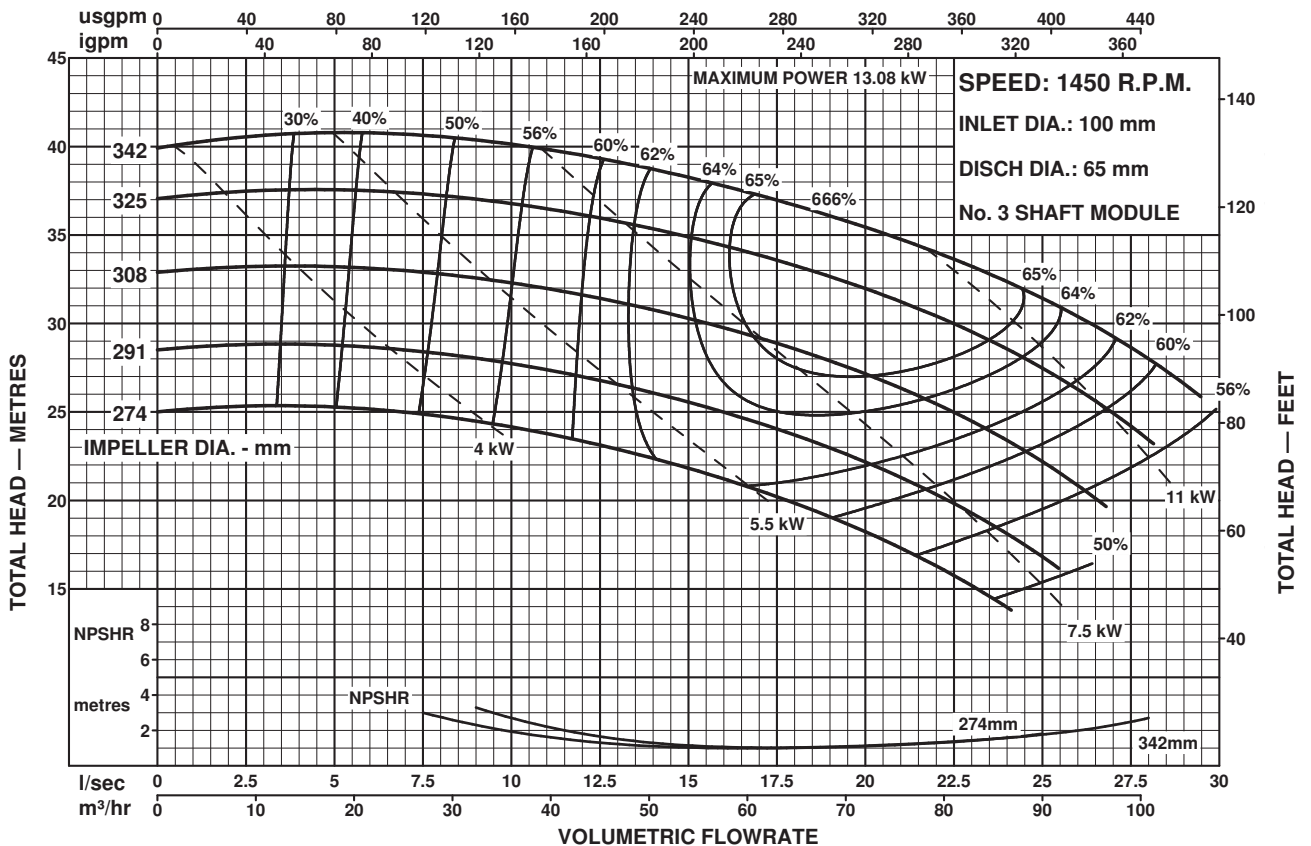


CENTRIFUGAL PUMP PERFORMANCE DATA



Performance to AS2417 Grade 2 for clean, cold water only.

May 2005



Performance to AS2417 Grade 2 for clean, cold water only.

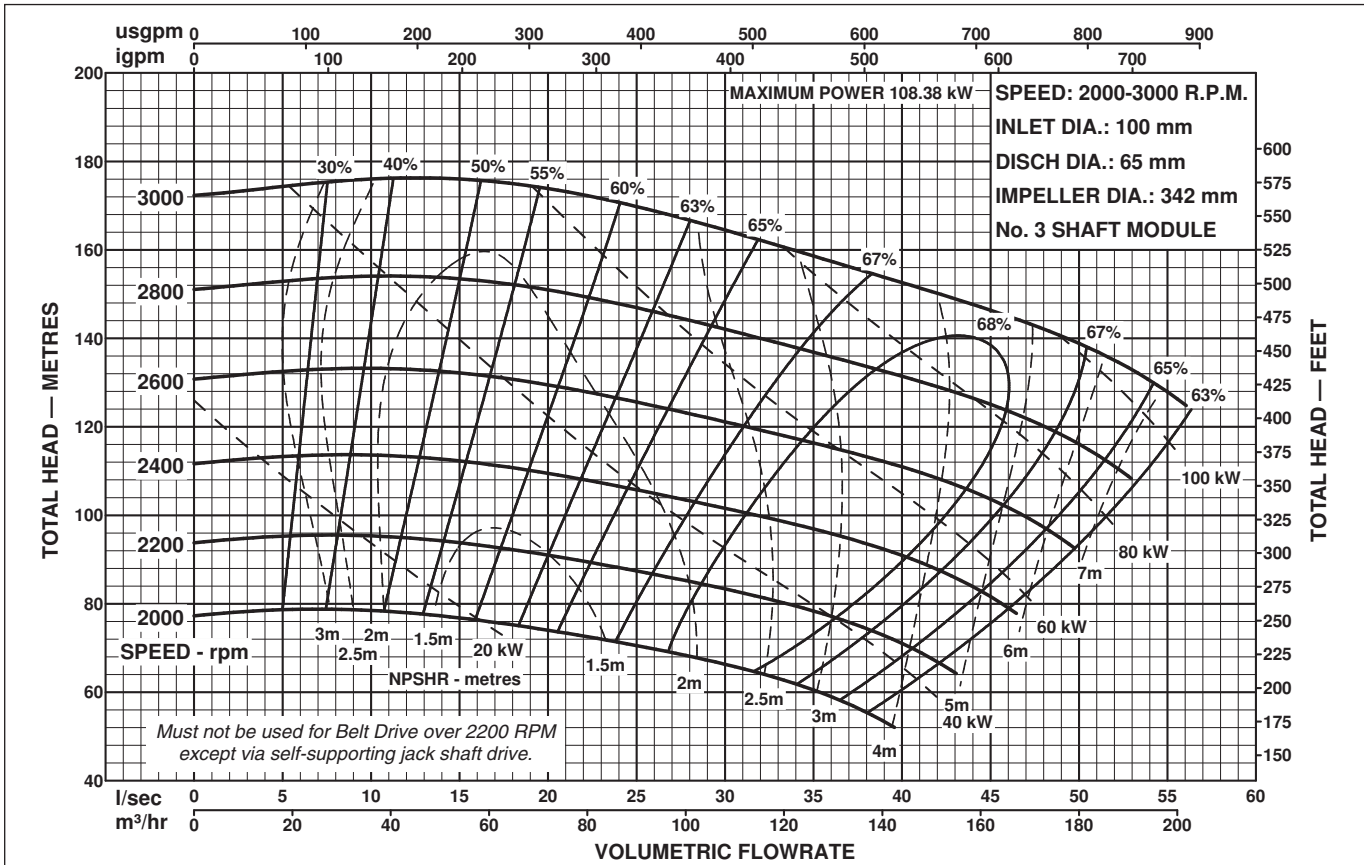
May 2005

100 x 65-315

SO Sovereign

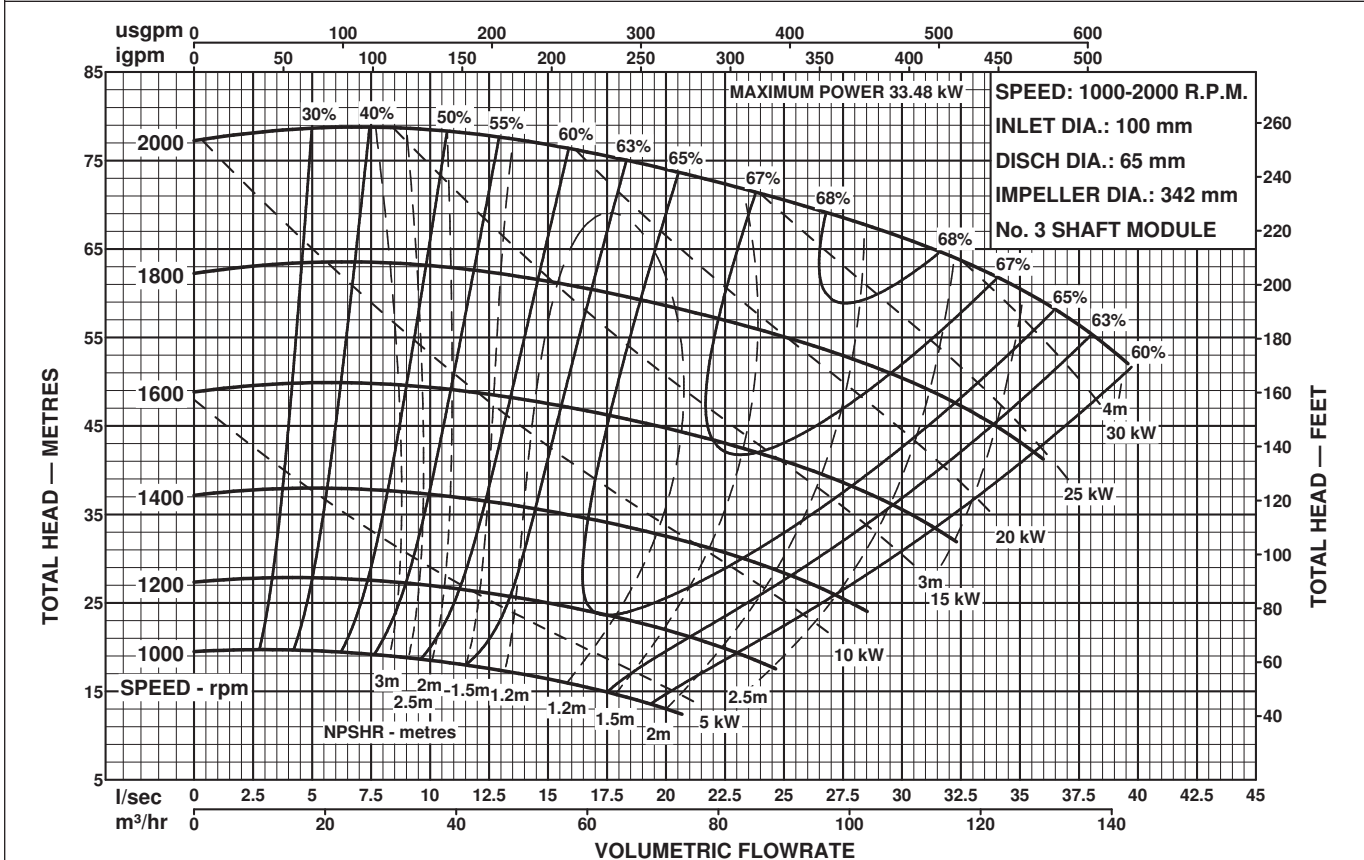


CENTRIFUGAL PUMP PERFORMANCE DATA



Performance to AS2417 Grade 2 for clean, cold water only.

May 2005

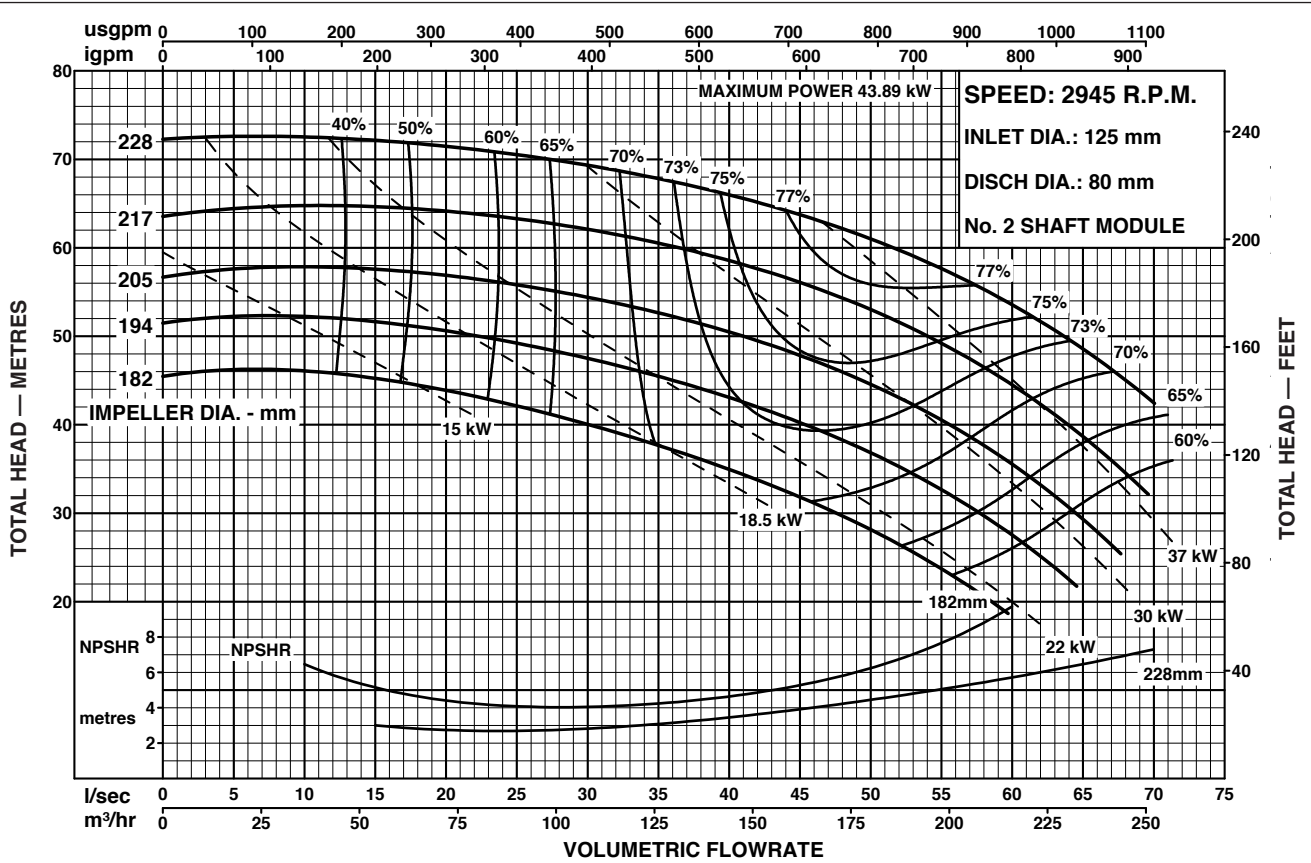


Performance to AS2417 Grade 2 for clean, cold water only.

May 2005

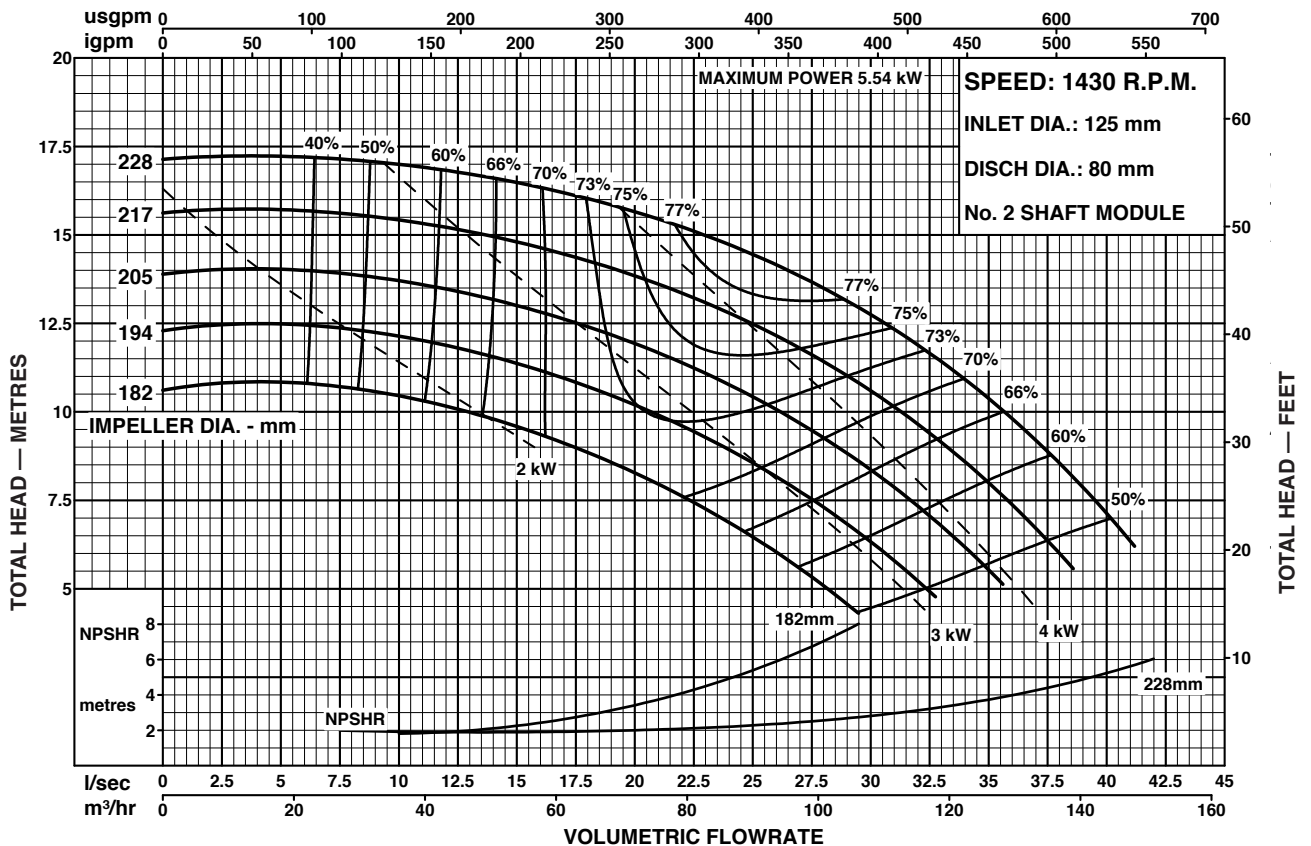


CENTRIFUGAL PUMP PERFORMANCE DATA



Performance to AS2417 Grade 2 for clean, cold water only.

May 2005



Performance to AS2417 Grade 2 for clean, cold water only.

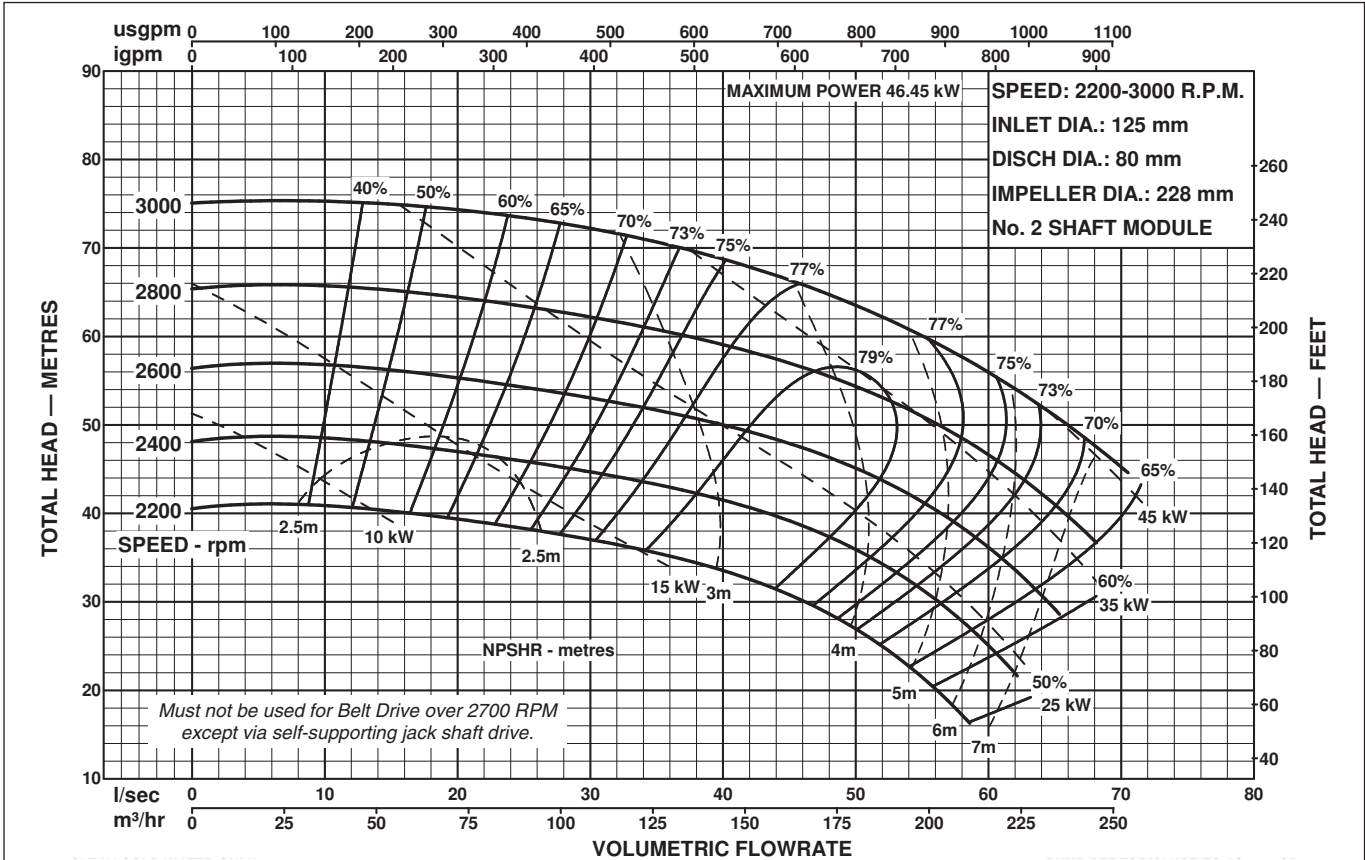
May 2005

125 x 80-200

SO Sovereign

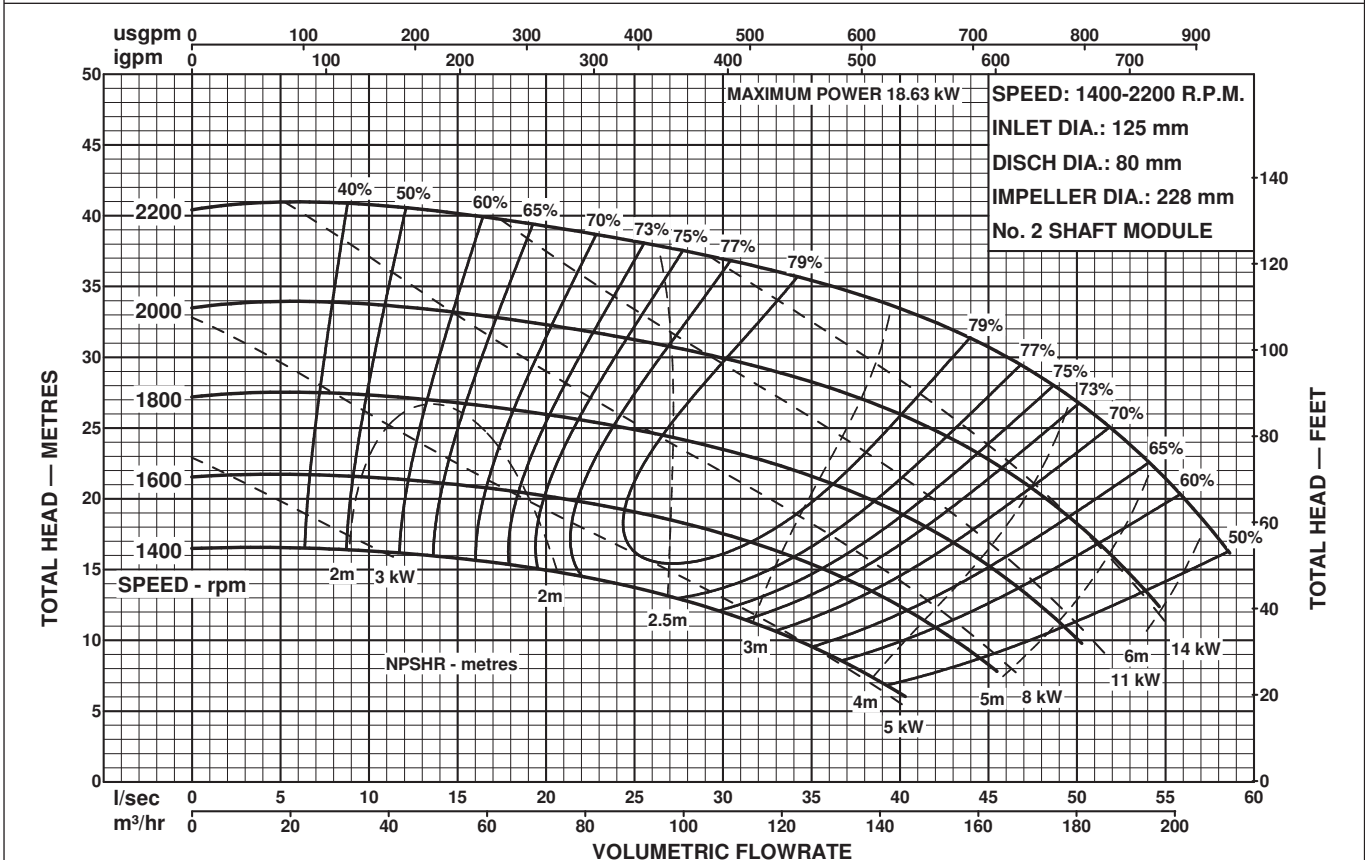


CENTRIFUGAL PUMP PERFORMANCE DATA



Performance to AS2417 Grade 2 for clean, cold water only.

May 2005



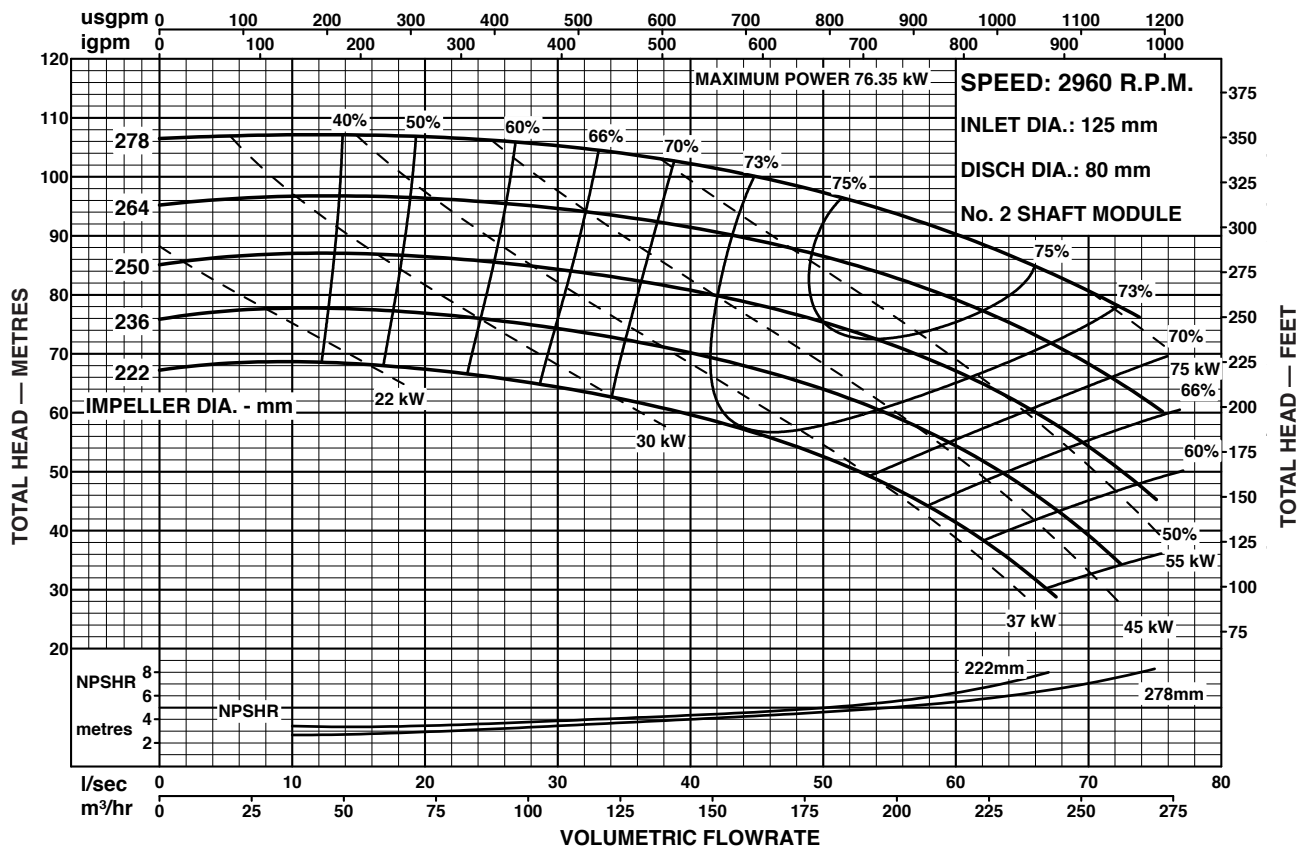
Performance to AS2417 Grade 2 for clean, cold water only.

May 2005



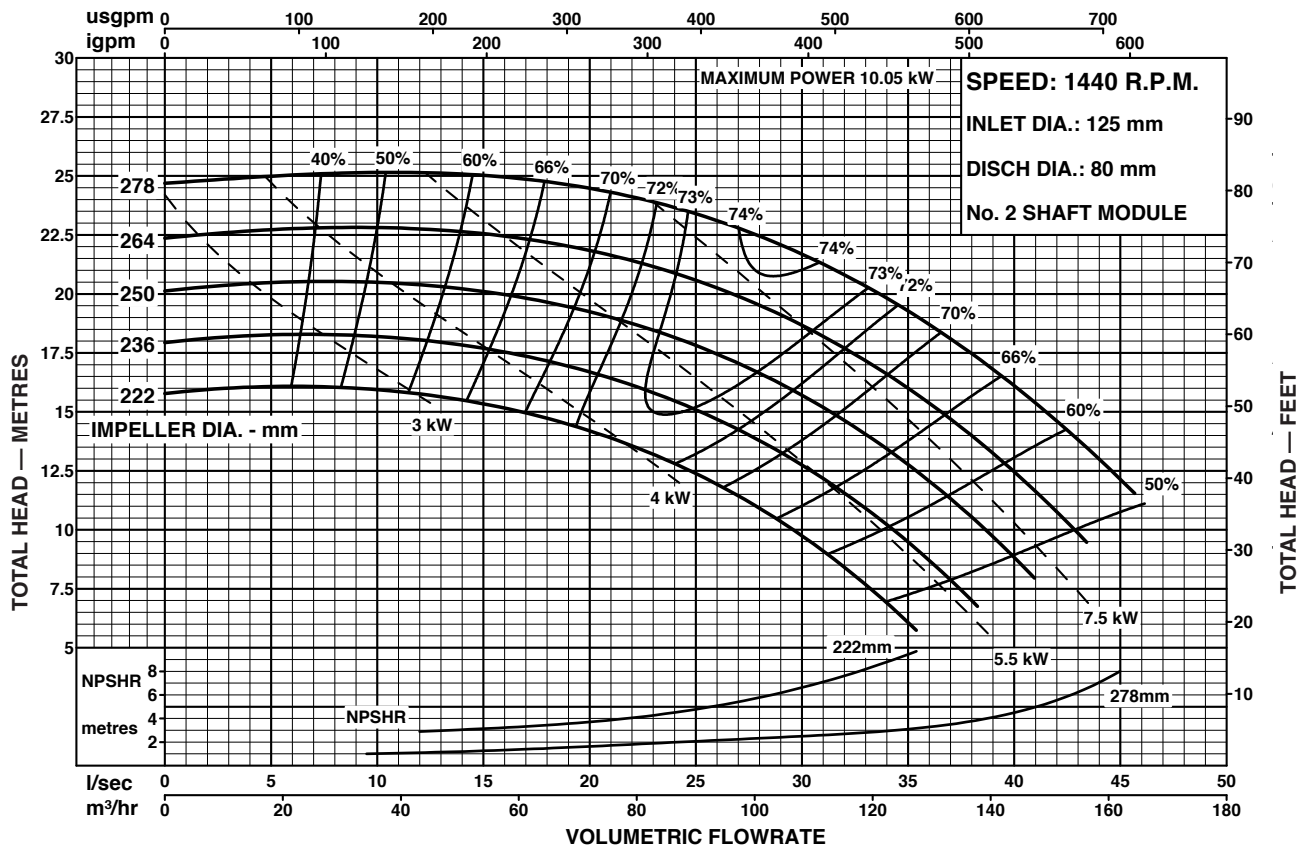
Sovereign 125 x 80-250

CENTRIFUGAL PUMP PERFORMANCE DATA



Performance to AS2417 Grade 2 for clean, cold water only.

May 2005



Performance to AS2417 Grade 2 for clean, cold water only.

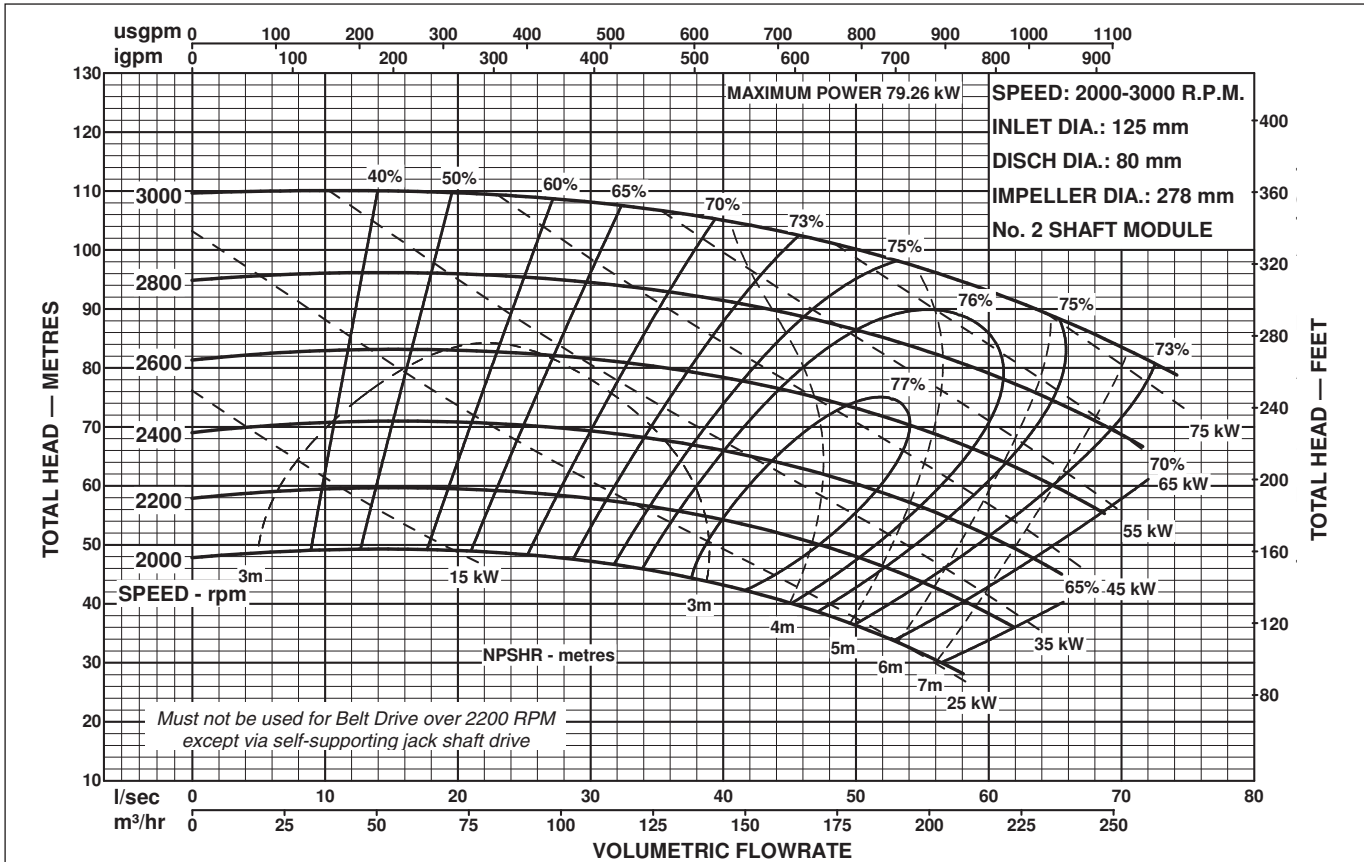
May 2005

125 x 80-250

Sovereign

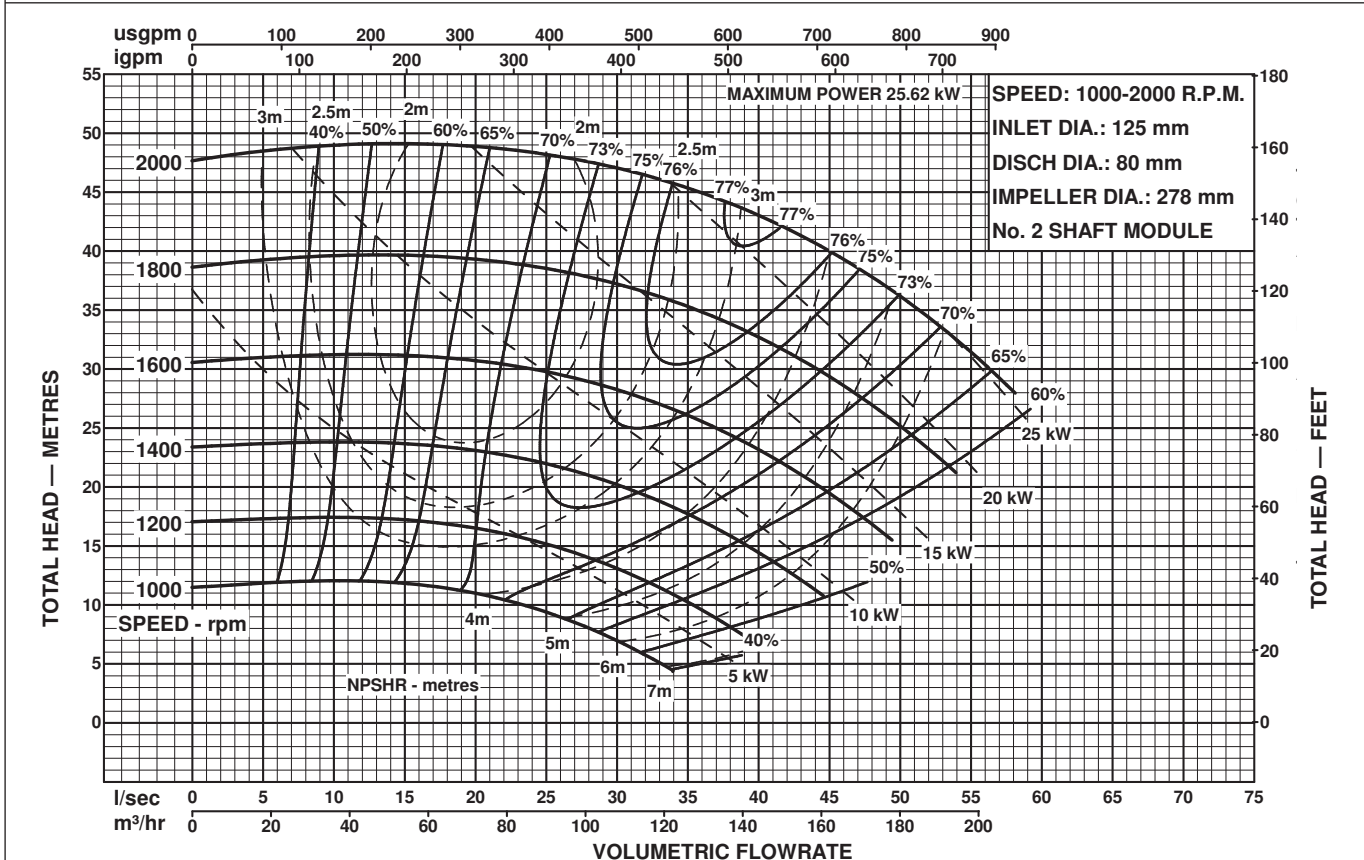


CENTRIFUGAL PUMP PERFORMANCE DATA



Performance to AS2417 Grade 2 for clean, cold water only.

May 2005



Performance to AS2417 Grade 2 for clean, cold water only.

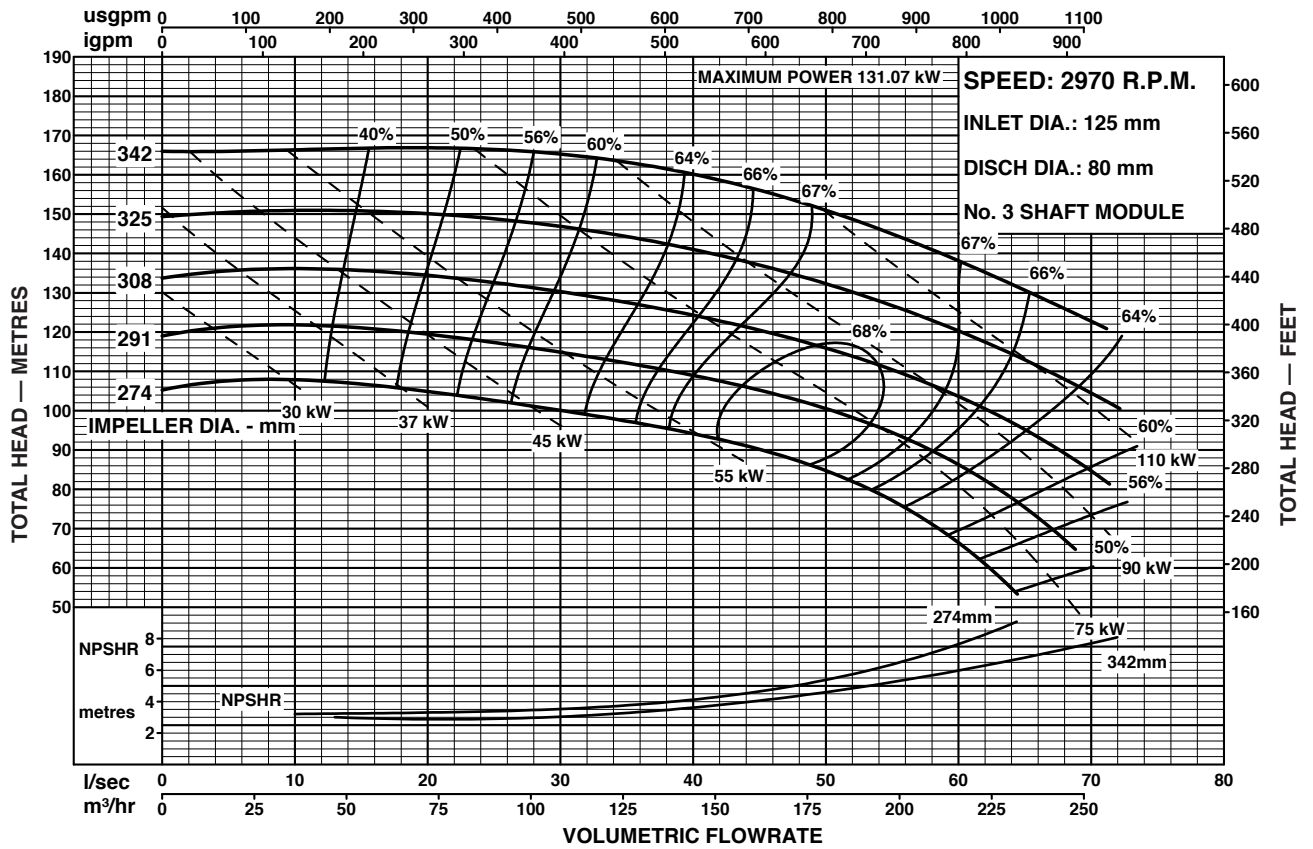
May 2005

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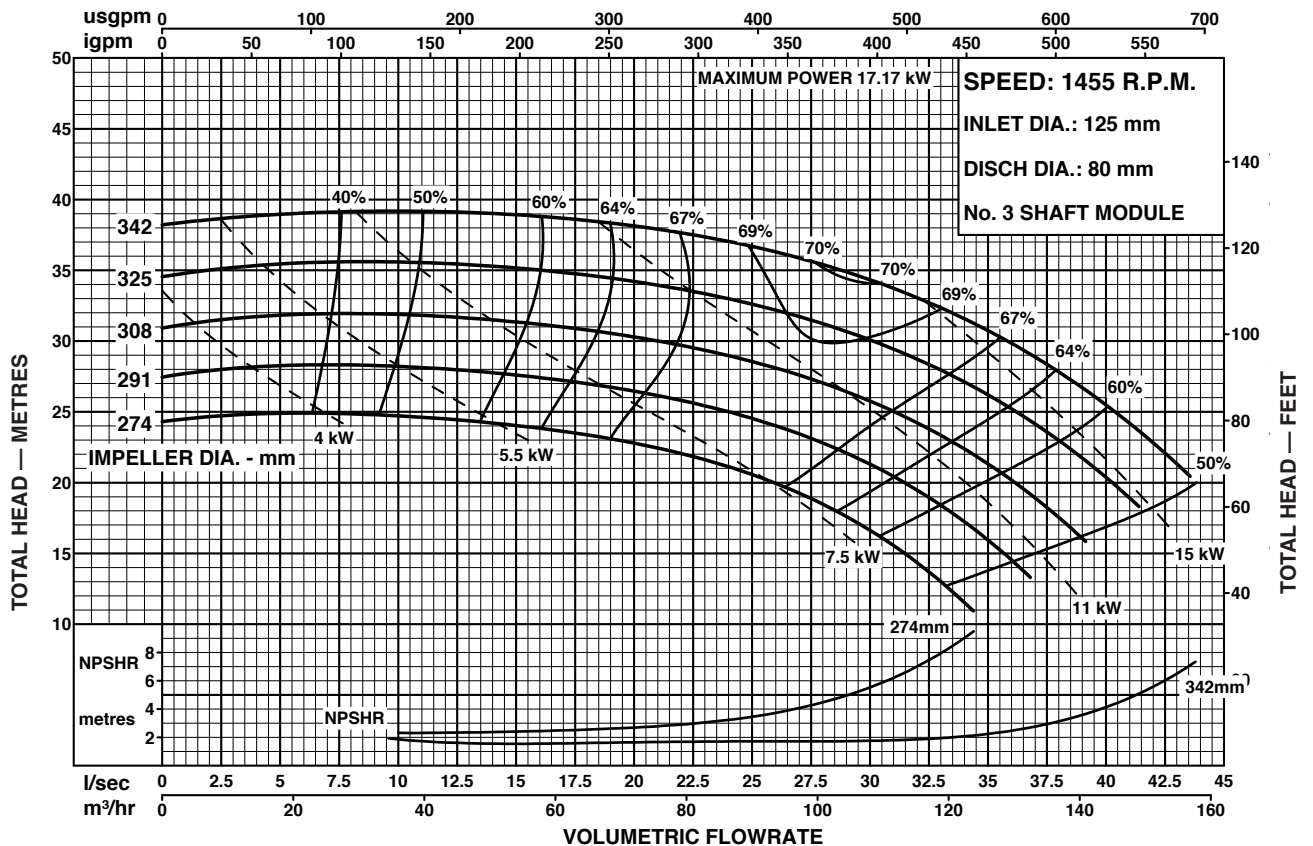
Sovereign 125 x 80-315

CENTRIFUGAL PUMP PERFORMANCE DATA



Performance to AS2417 Grade 2 for clean, cold water only.

May 2005



Performance to AS2417 Grade 2 for clean, cold water only.

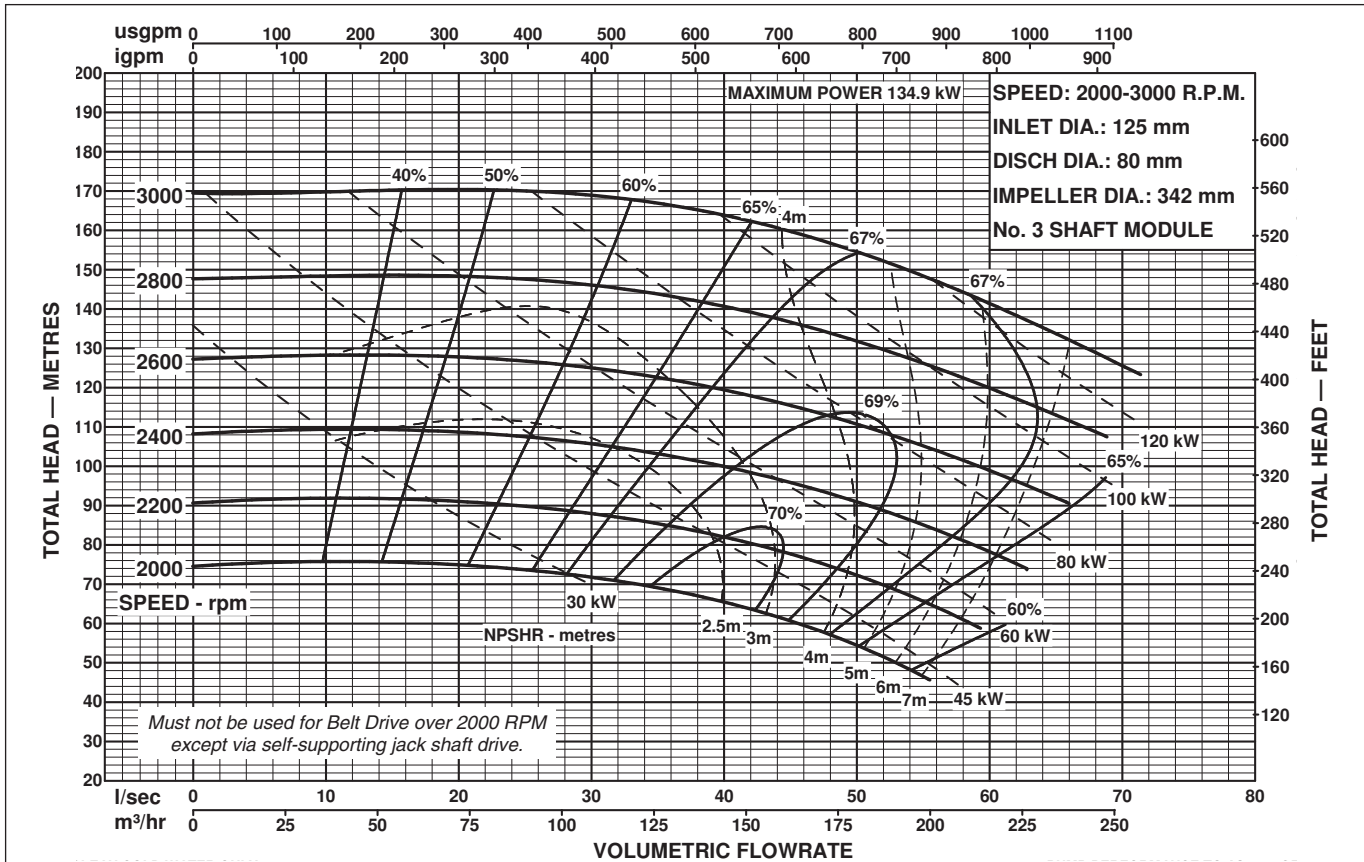
May 2005

125 x 80-315

SO Sovereign

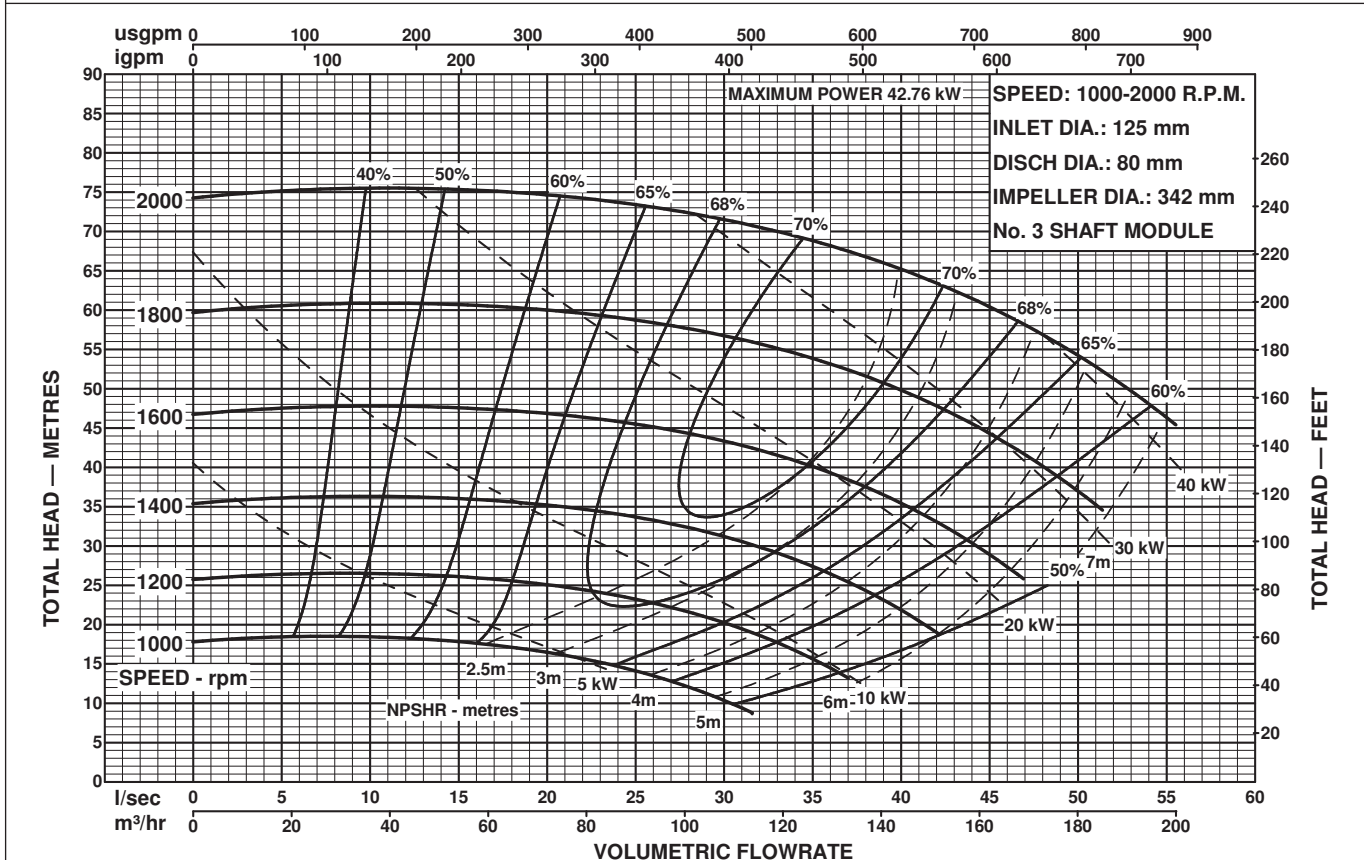


CENTRIFUGAL PUMP PERFORMANCE DATA



Performance to AS2417 Grade 2 for clean, cold water only.

May 2005



Performance to AS2417 Grade 2 for clean, cold water only.

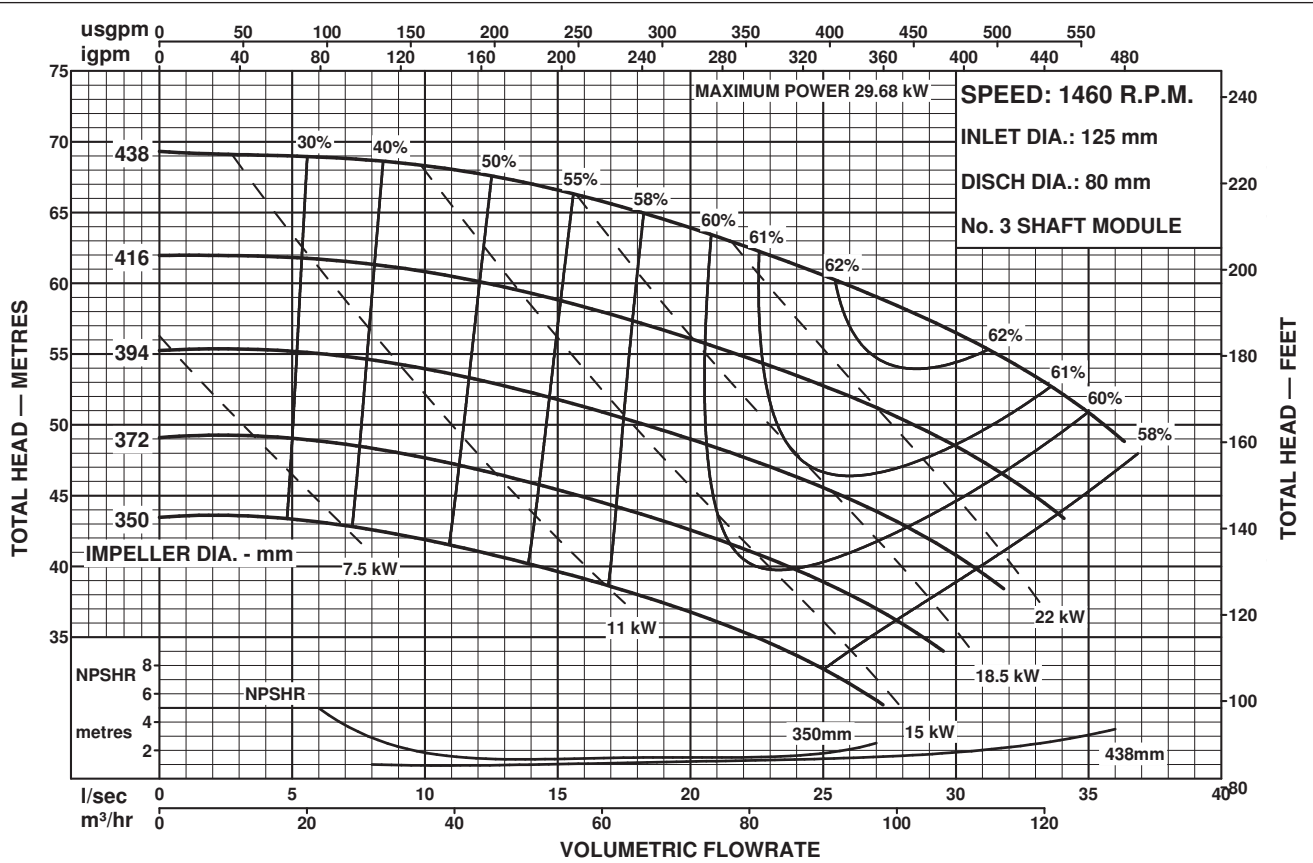
May 2005

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Sovereign 125 x 80-400

CENTRIFUGAL PUMP PERFORMANCE DATA



Performance to AS2417 Grade 2 for clean, cold water only.

May 2005

Performance to AS2417 Grade 2 for clean, cold water only.

May 2005

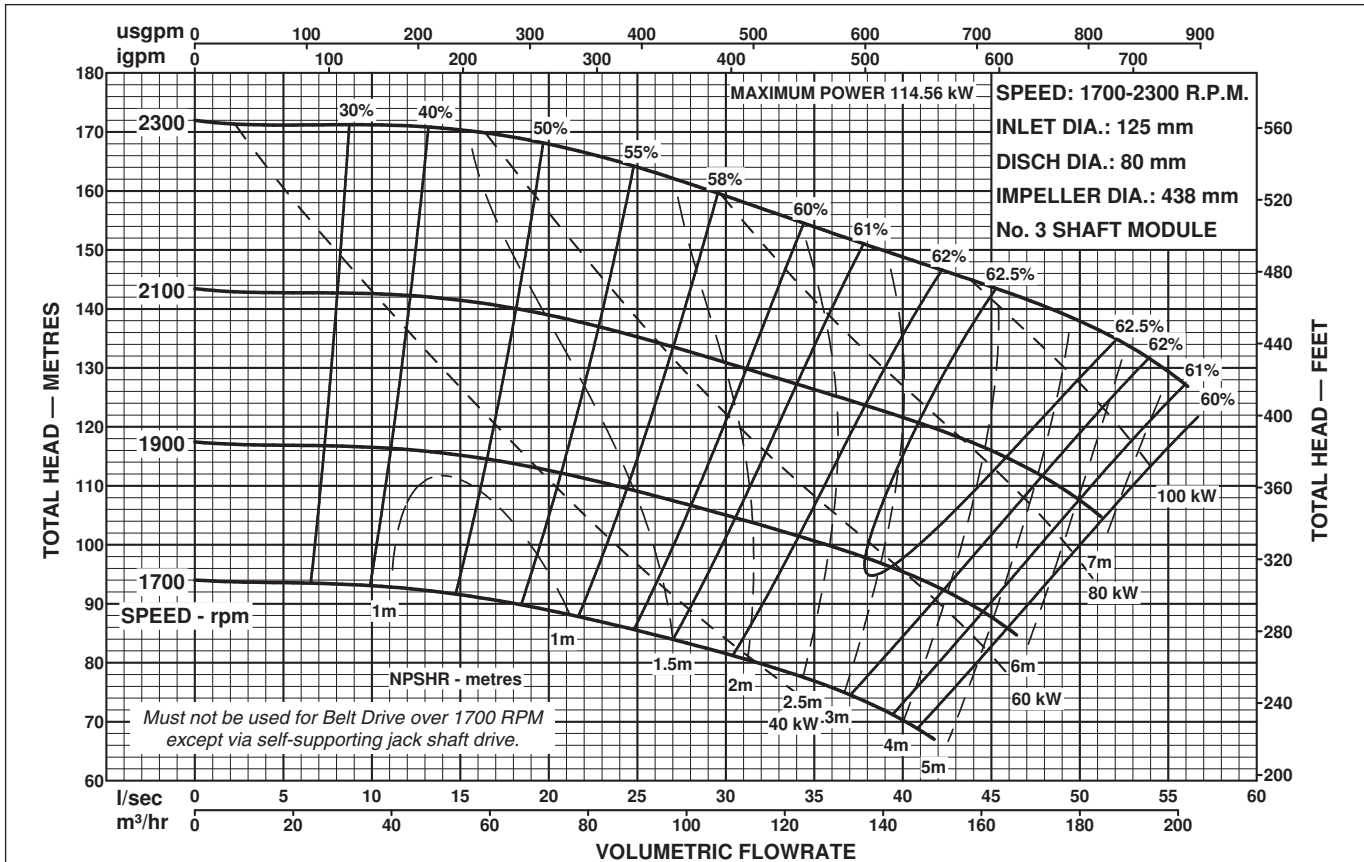
A division of **tyco** Flow Control Pacific Pty Ltd A.B.N. 83 000 922 690

125 x 80-400

Sovereign

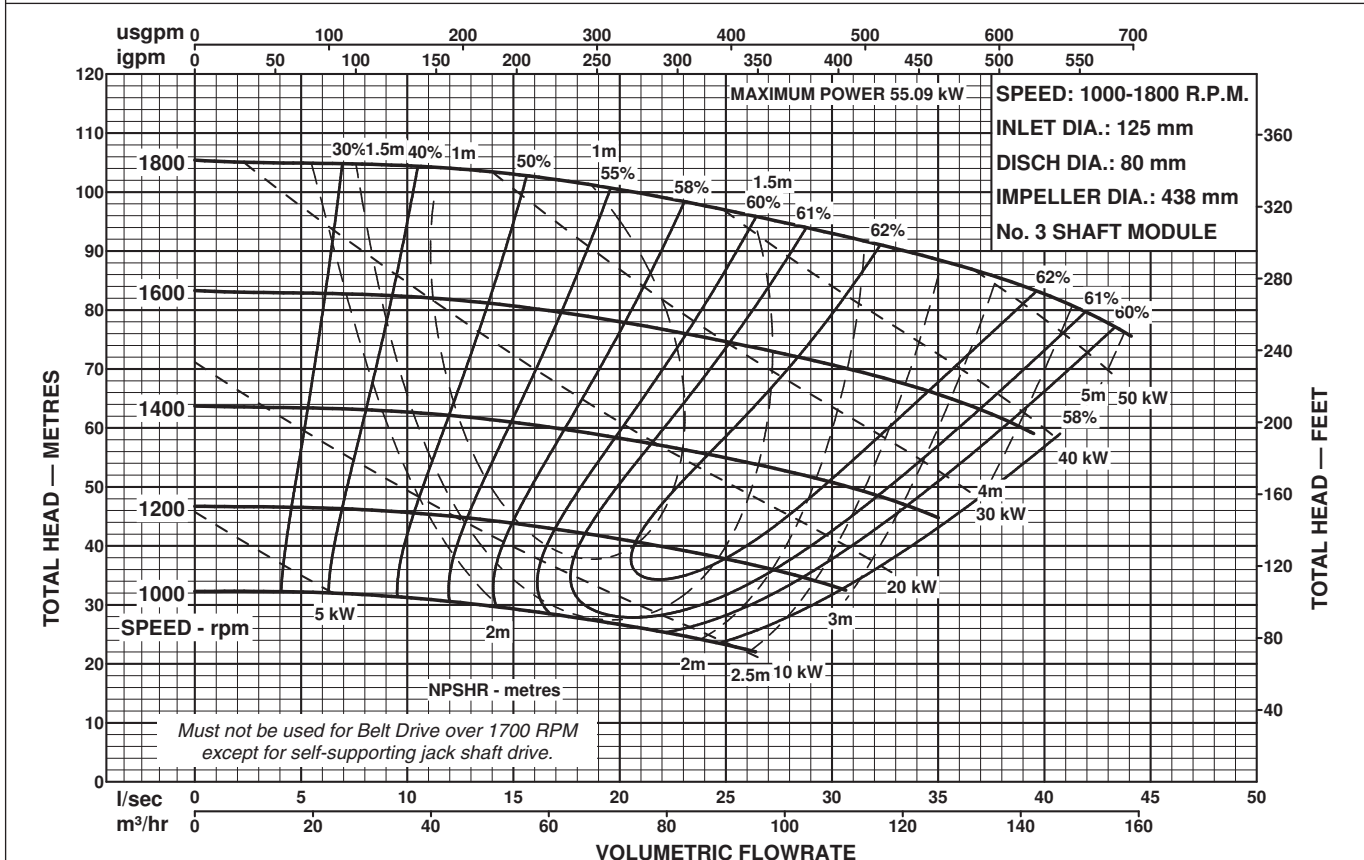


CENTRIFUGAL PUMP PERFORMANCE DATA



Performance to AS2417 Grade 2 for clean, cold water only.

May 2005



Performance to AS2417 Grade 2 for clean, cold water only.

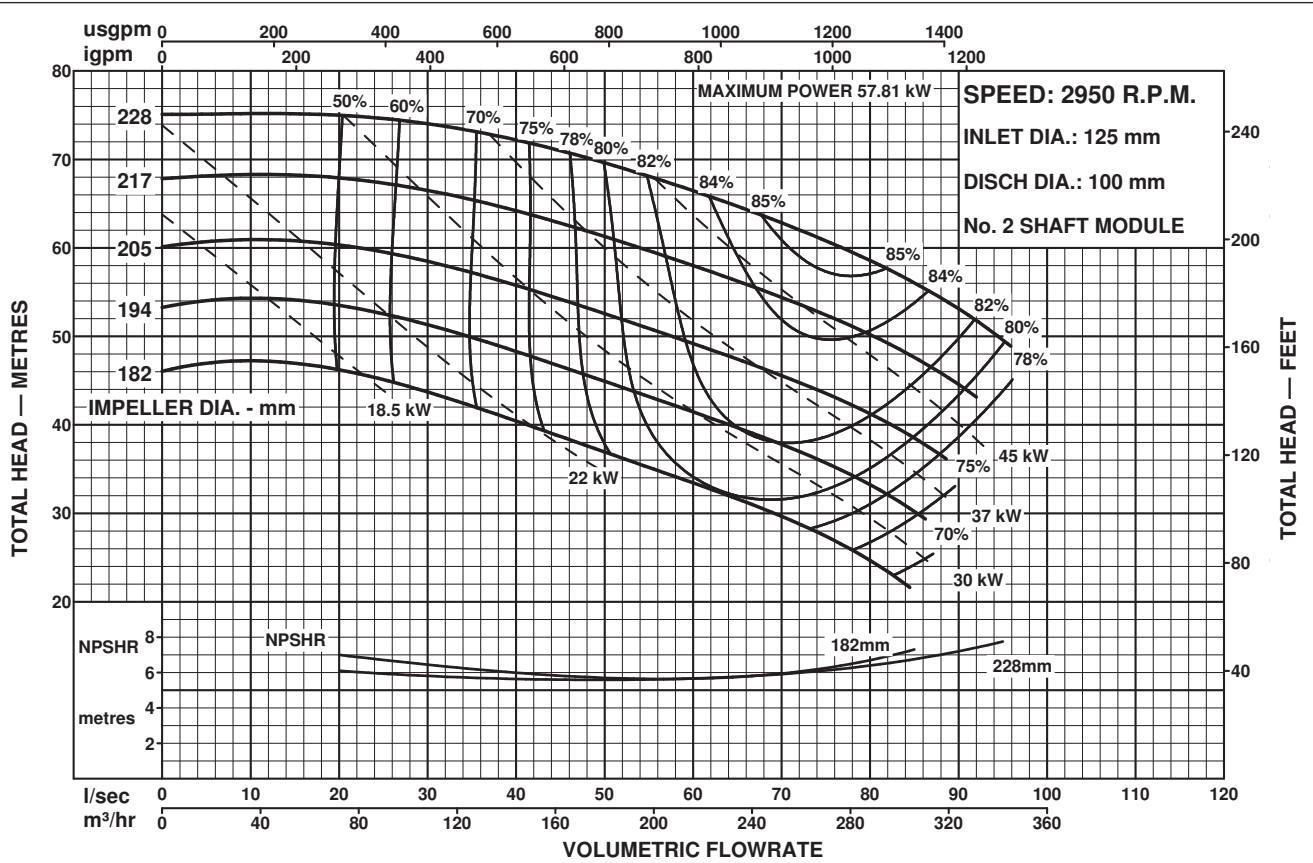
May 2005

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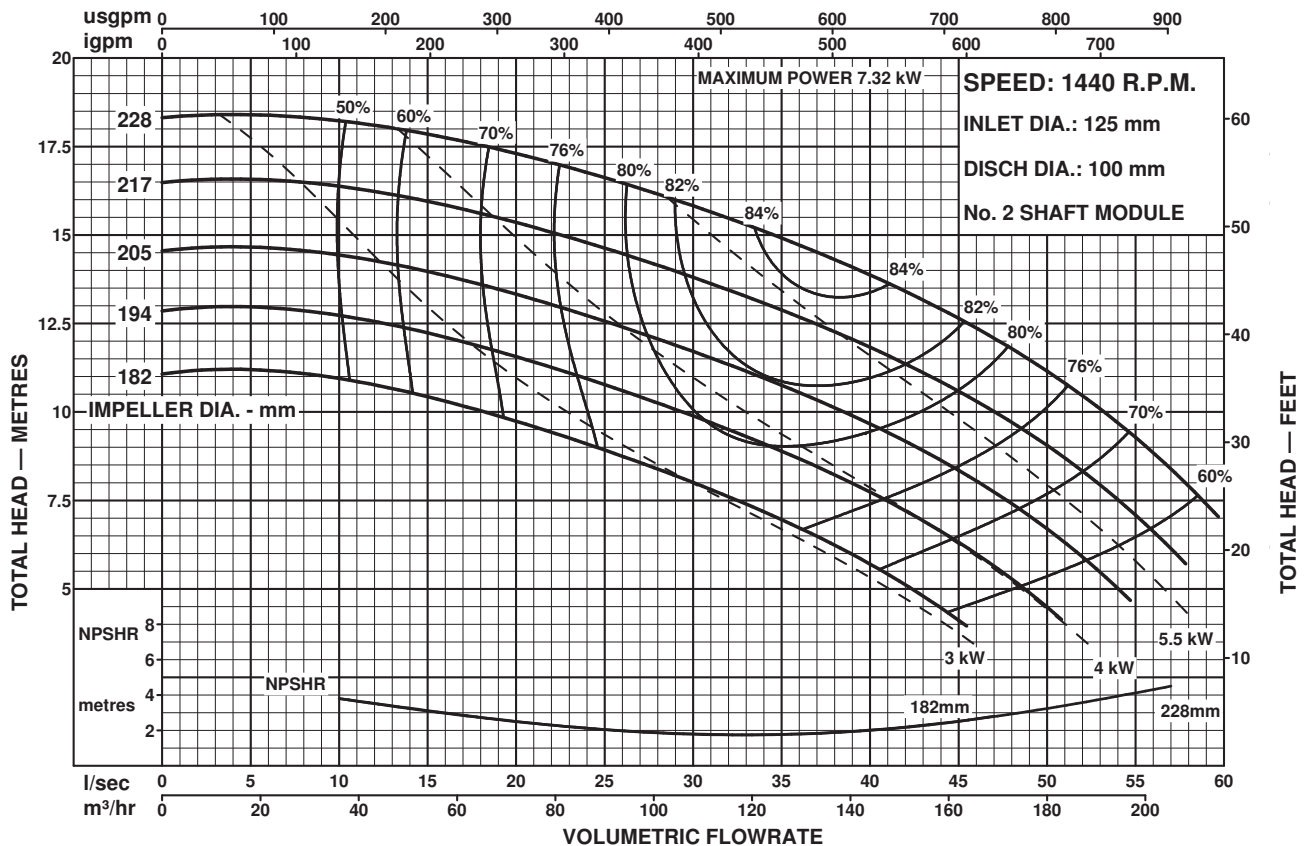
Sovereign 125 x 100-200

CENTRIFUGAL PUMP PERFORMANCE DATA



Performance to AS2417 Grade 2 for clean, cold water only.

May 2005



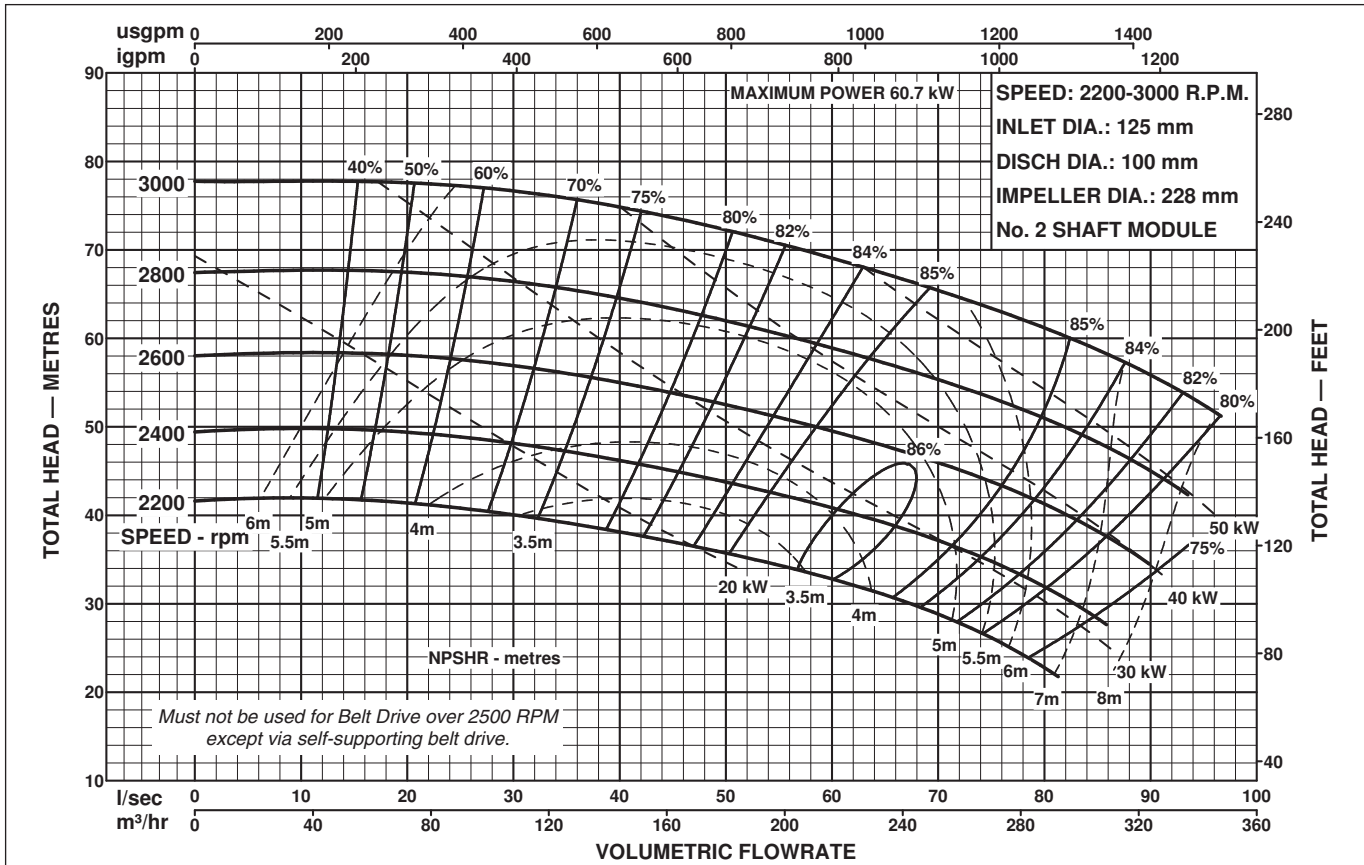
Performance to AS2417 Grade 2 for clean, cold water only.

May 2005

125 x 100-200 *SO* Sovereign

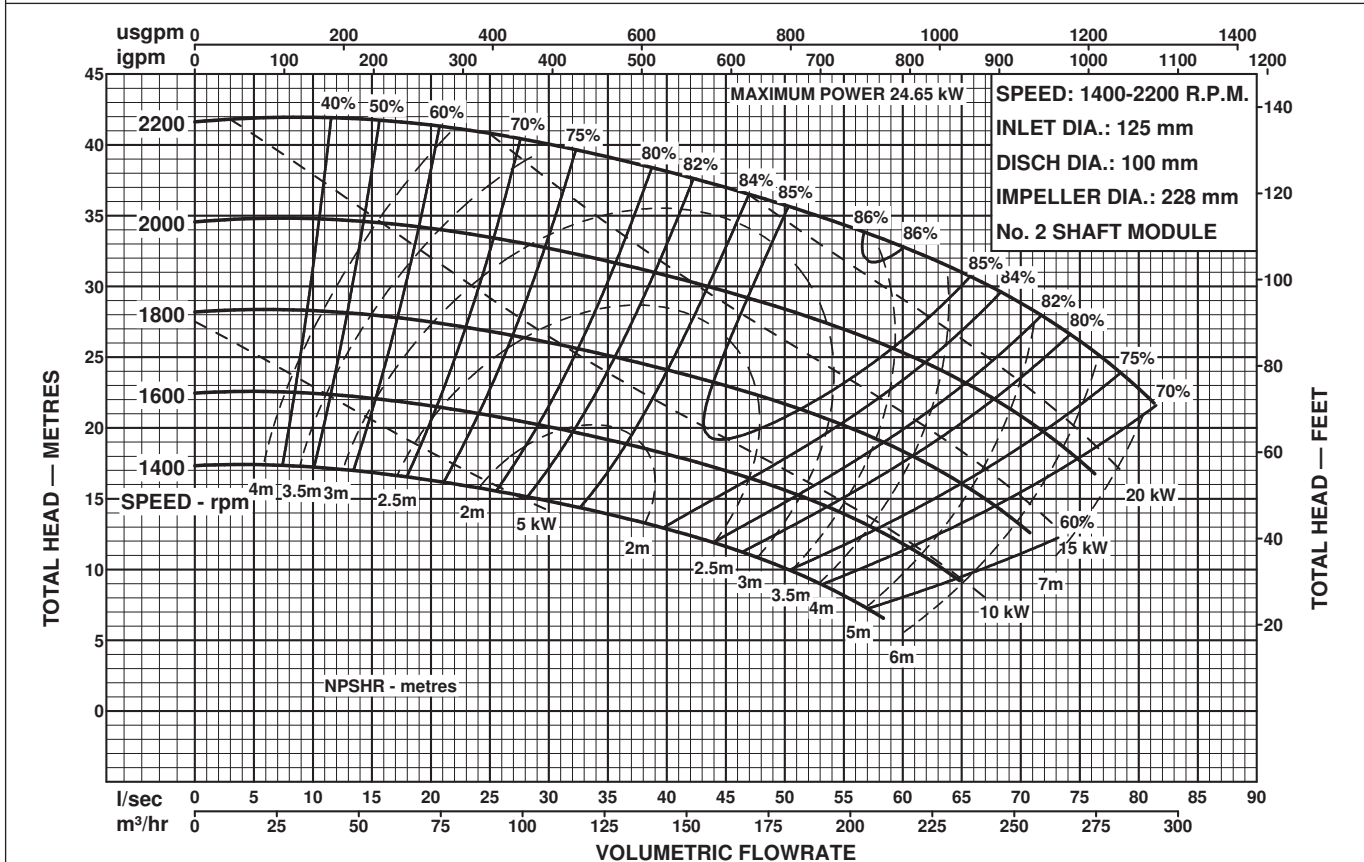


CENTRIFUGAL PUMP PERFORMANCE DATA



Performance to AS2417 Grade 2 for clean, cold water only.

May 2005



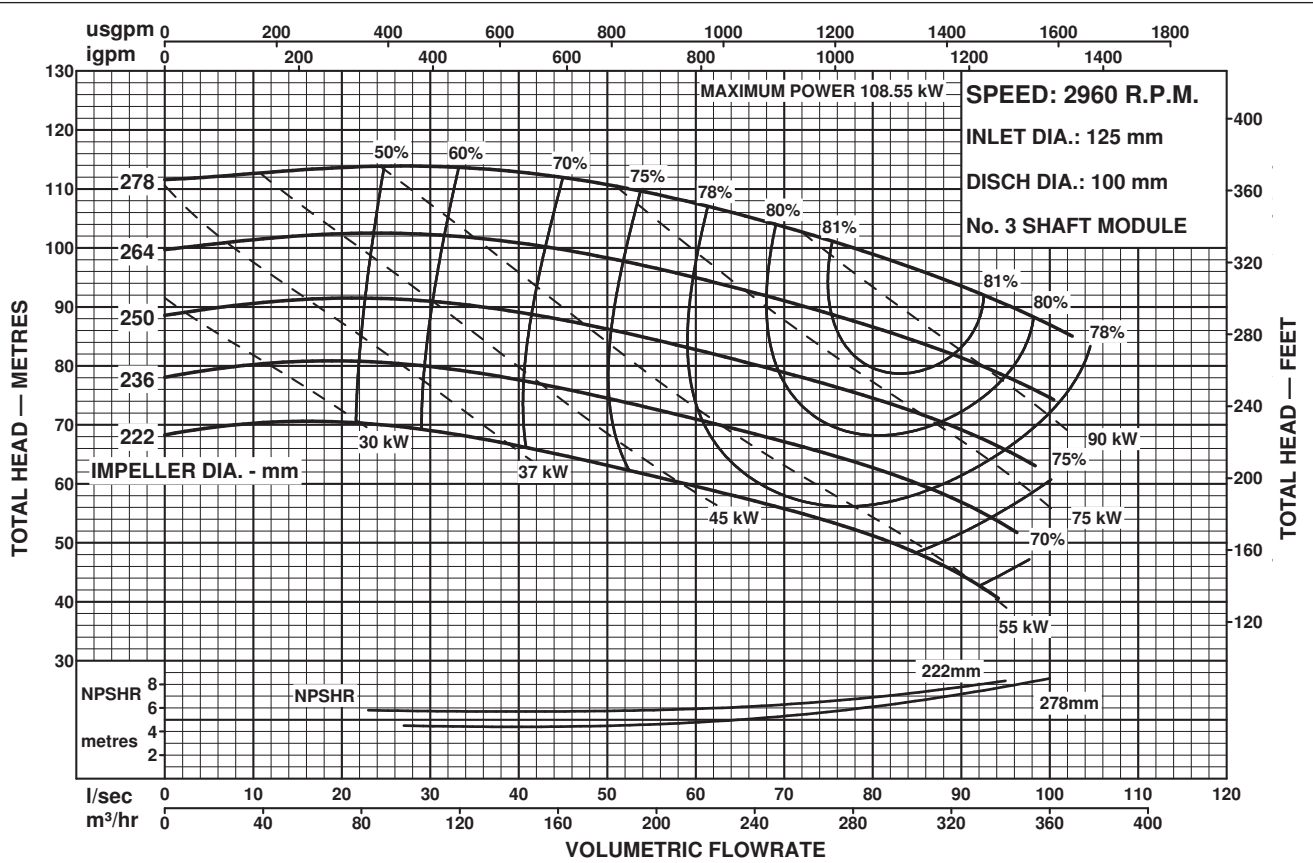
Performance to AS2417 Grade 2 for clean, cold water only.

May 2005



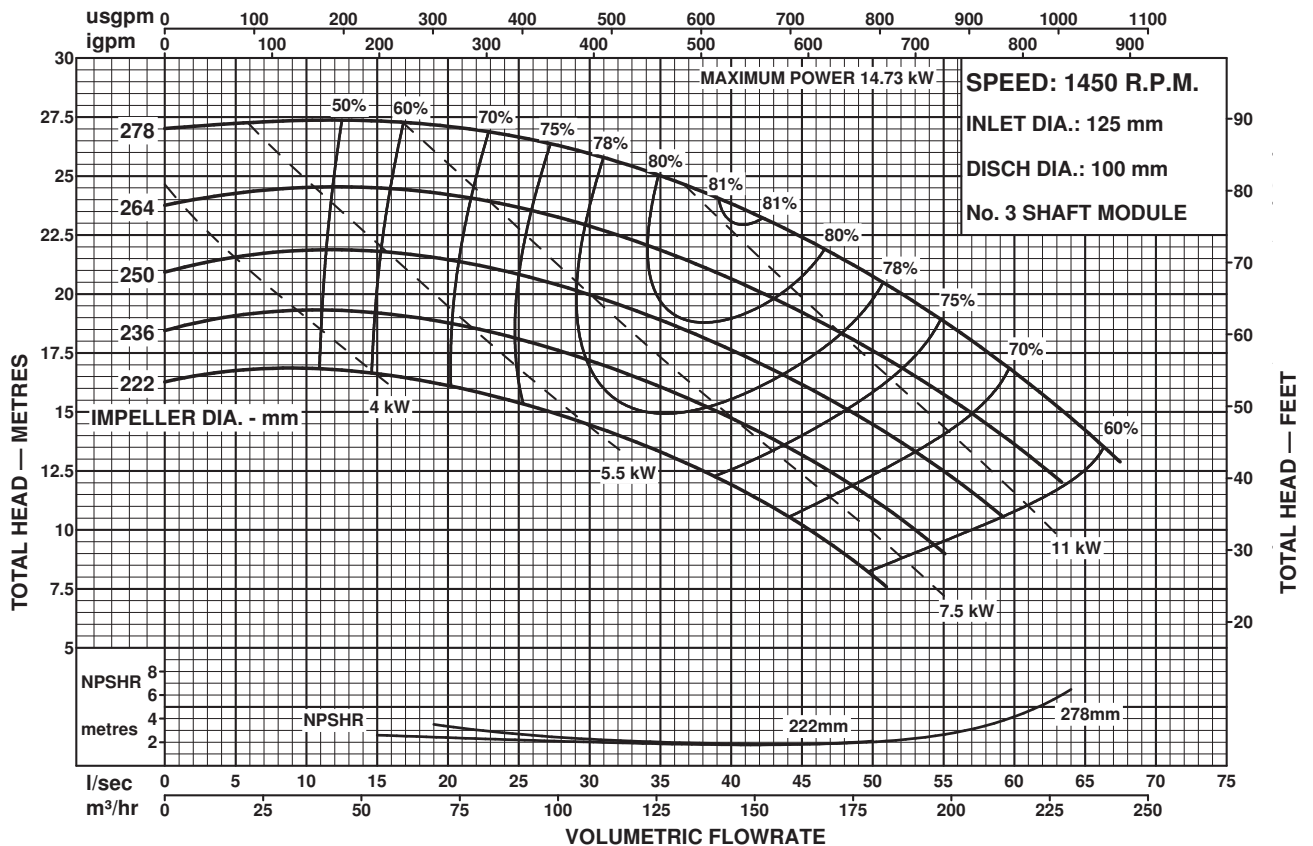
Sovereign 125 x 100-250

CENTRIFUGAL PUMP PERFORMANCE DATA



Performance to AS2417 Grade 2 for clean, cold water only.

May 2005



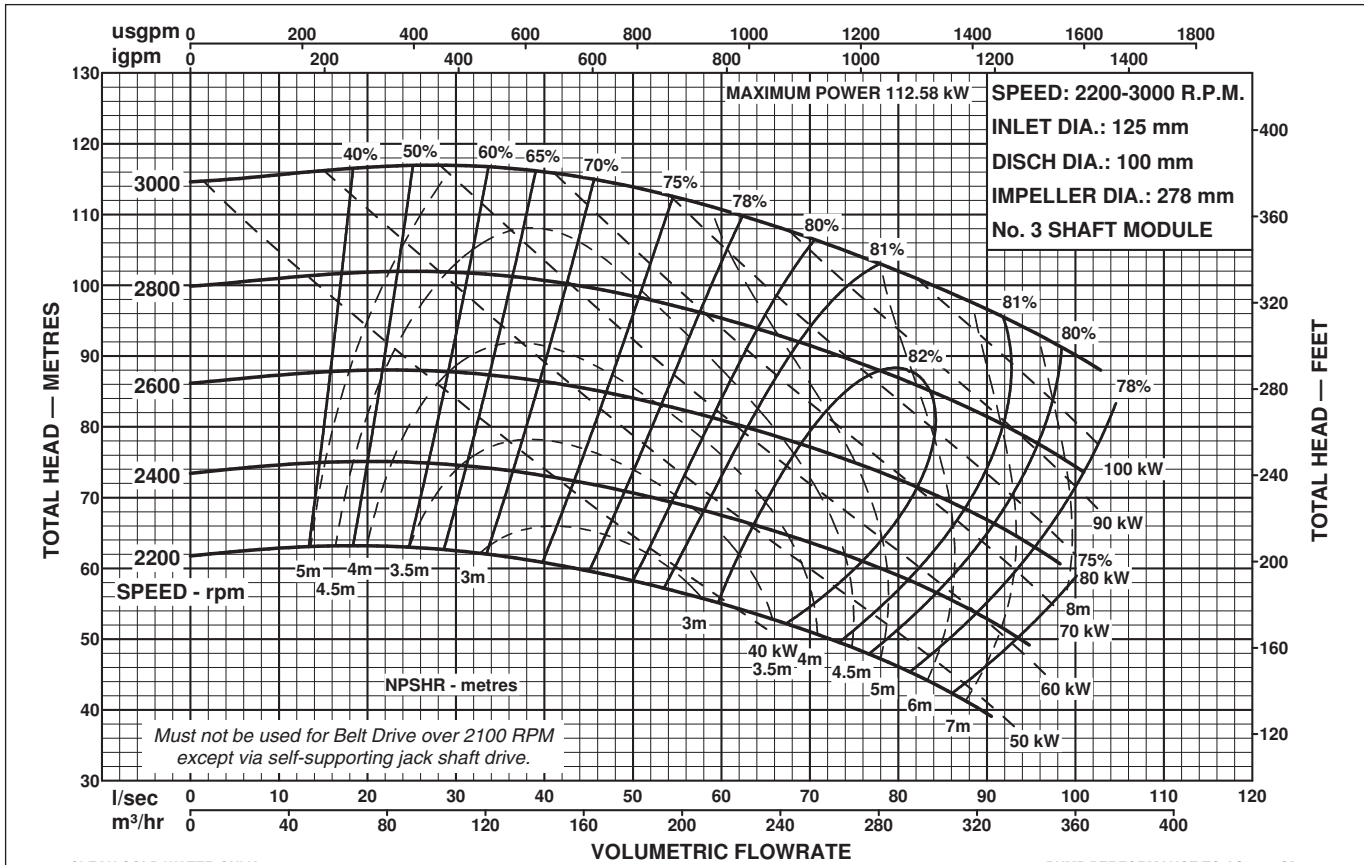
Performance to AS2417 Grade 2 for clean, cold water only.

May 2005

125 x 100-250 *Sovereign*

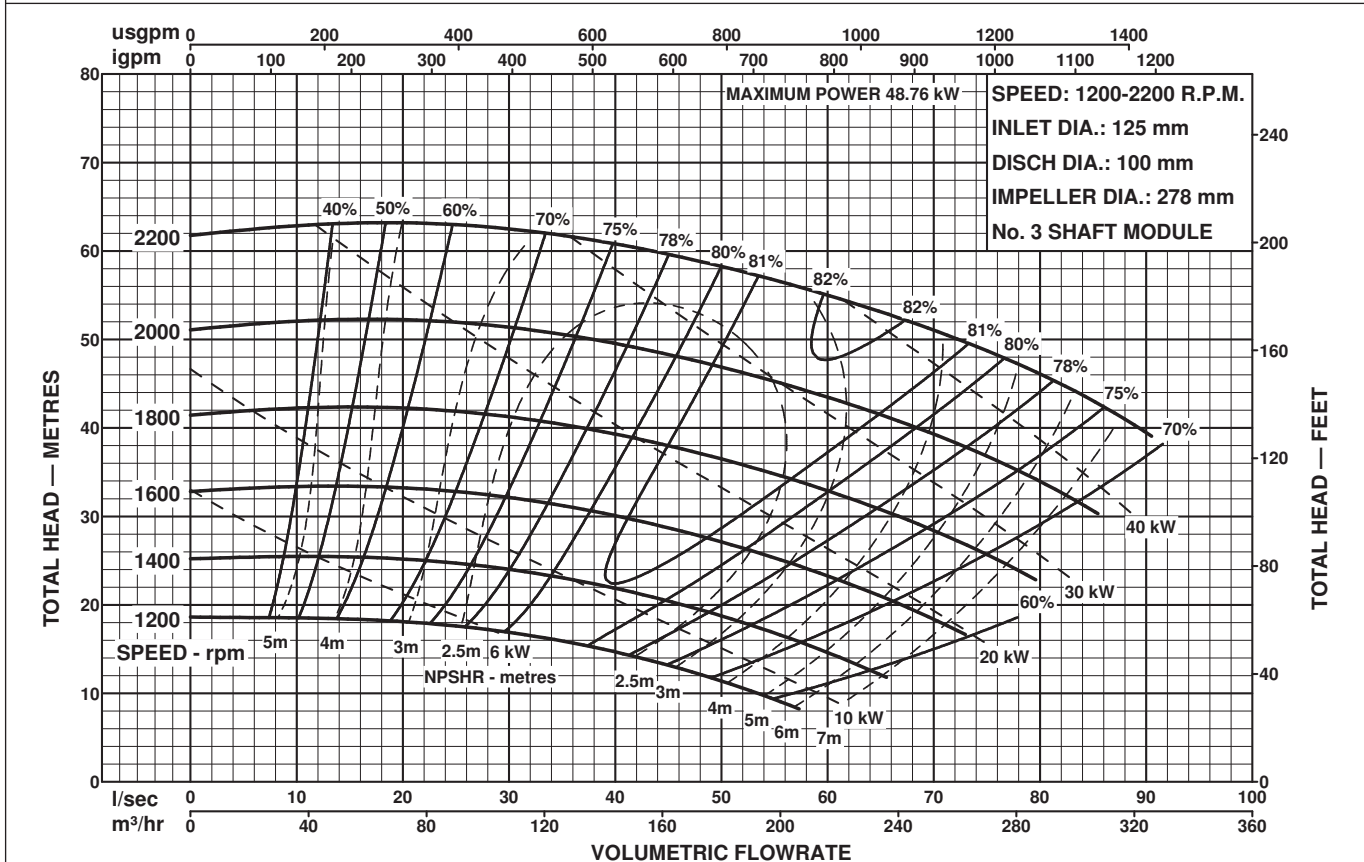


CENTRIFUGAL PUMP PERFORMANCE DATA



Performance to AS2417 Grade 2 for clean, cold water only.

May 2005



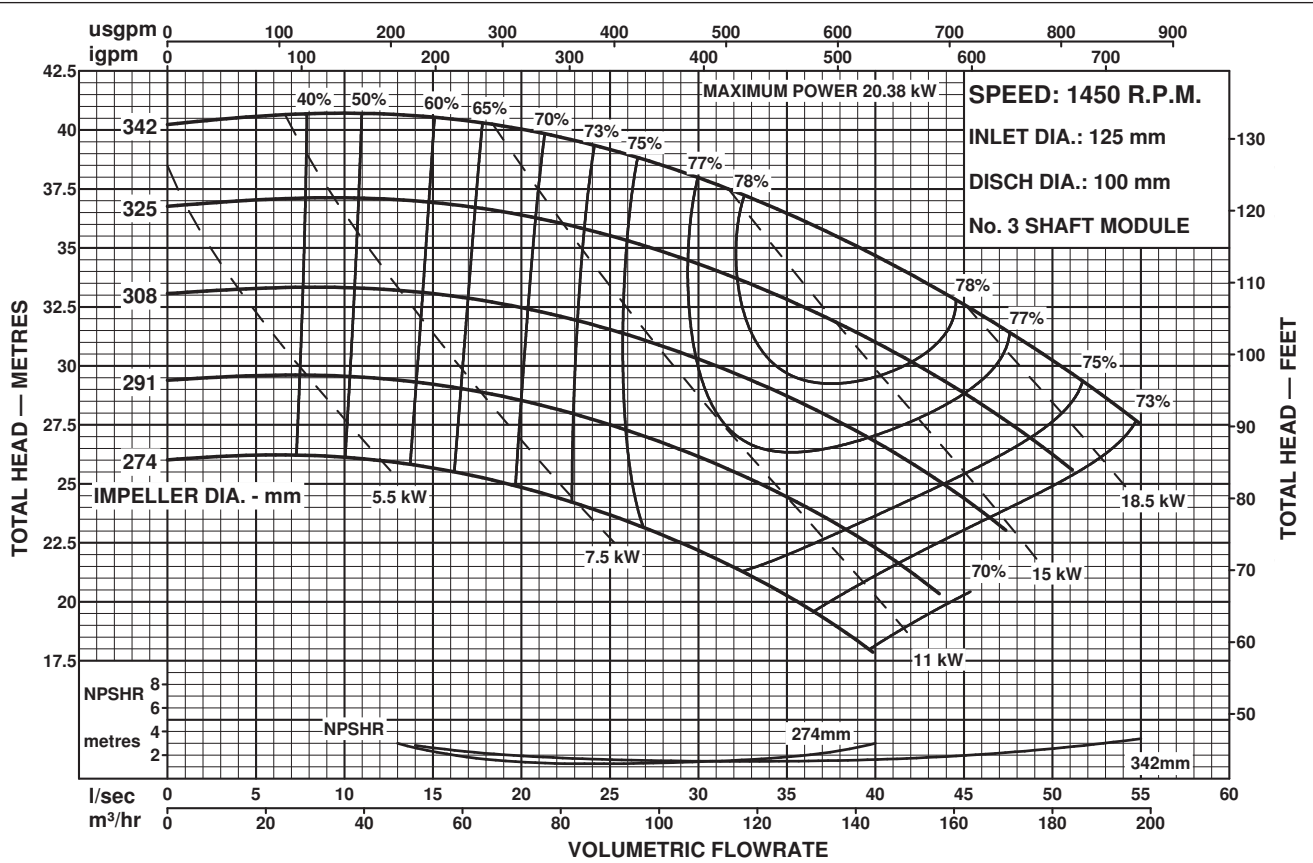
Performance to AS2417 Grade 2 for clean, cold water only.

May 2005



ISO Sovereign 125 x 100-315

CENTRIFUGAL PUMP PERFORMANCE DATA



Performance to AS2417 Grade 2 for clean, cold water only.

May 2005

Performance to AS2417 Grade 2 for clean, cold water only.

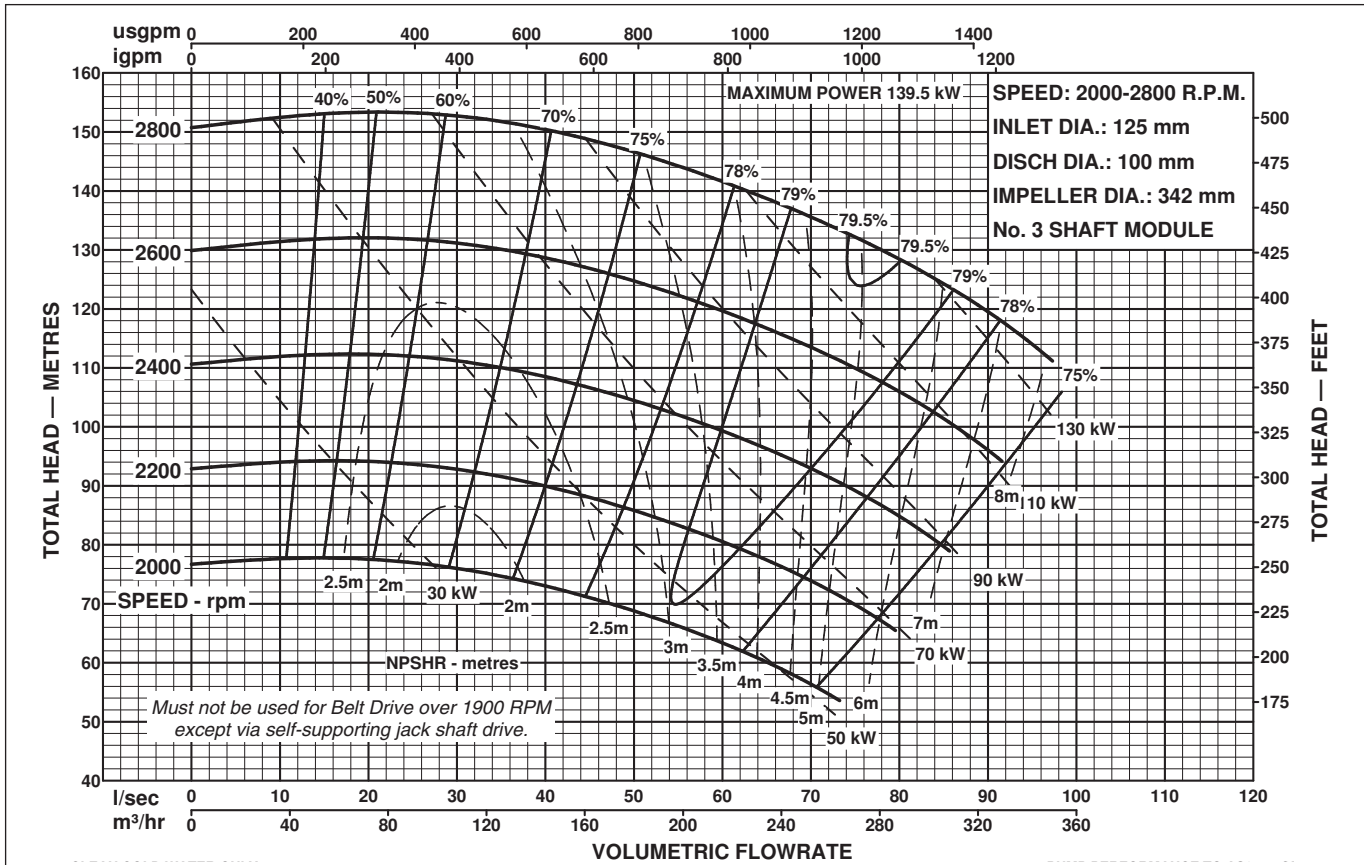
May 2005

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125 x 100-315 *SO* Sovereign

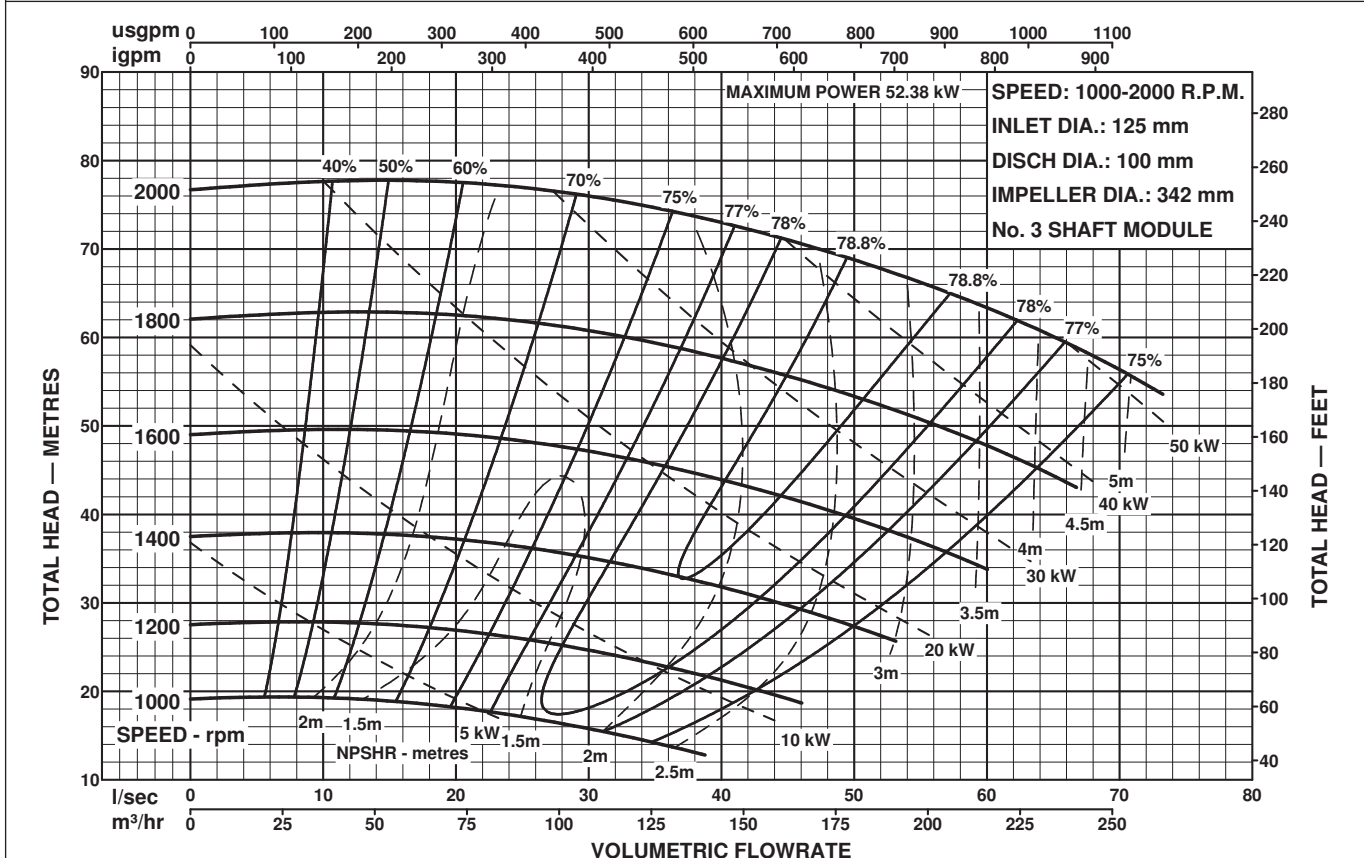


CENTRIFUGAL PUMP PERFORMANCE DATA



Performance to AS2417 Grade 2 for clean, cold water only.

May 2005



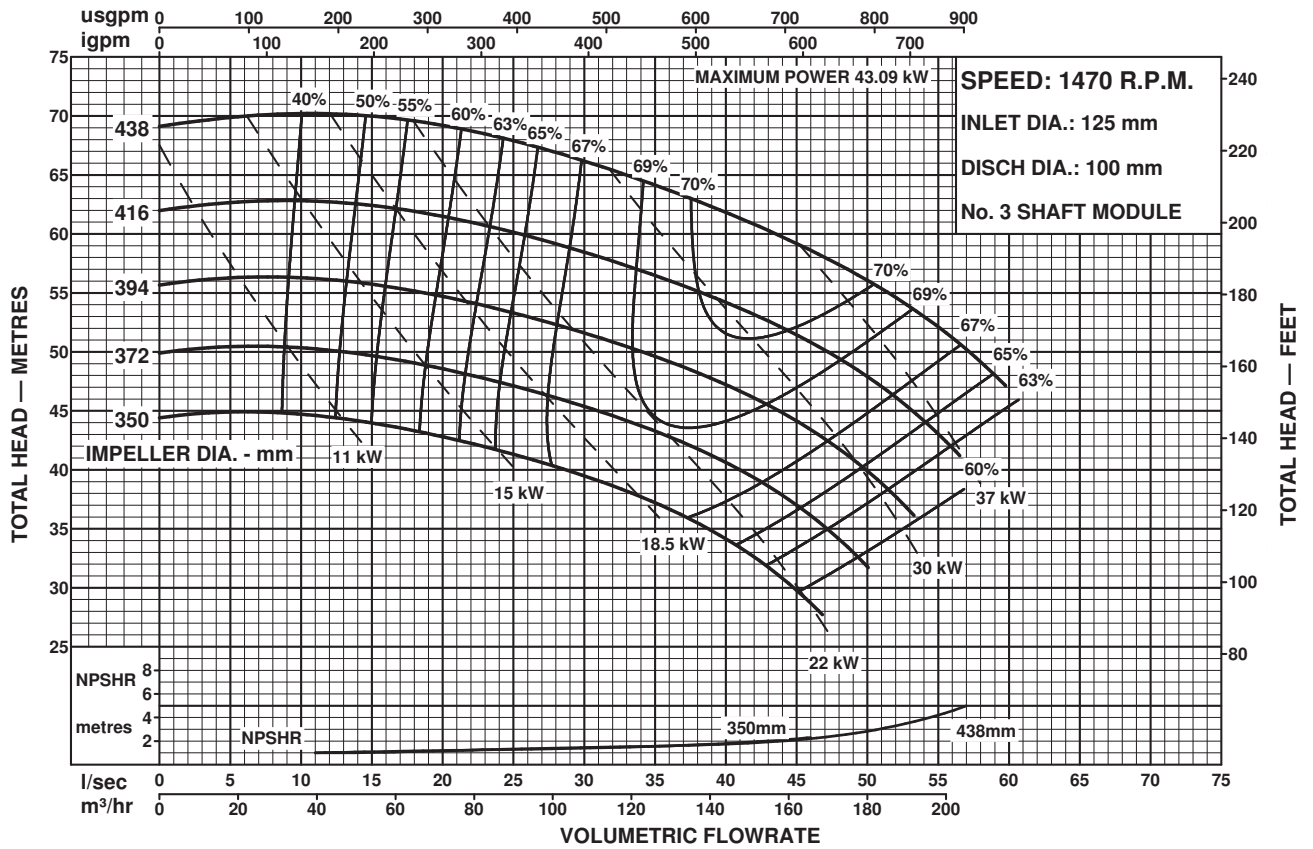
Performance to AS2417 Grade 2 for clean, cold water only.

May 2005



CENTRIFUGAL PUMP PERFORMANCE DATA

ISO Sovereign **125 x 100-400**



Performance to AS2417 Grade 2 for clean, cold water only.

May 2005

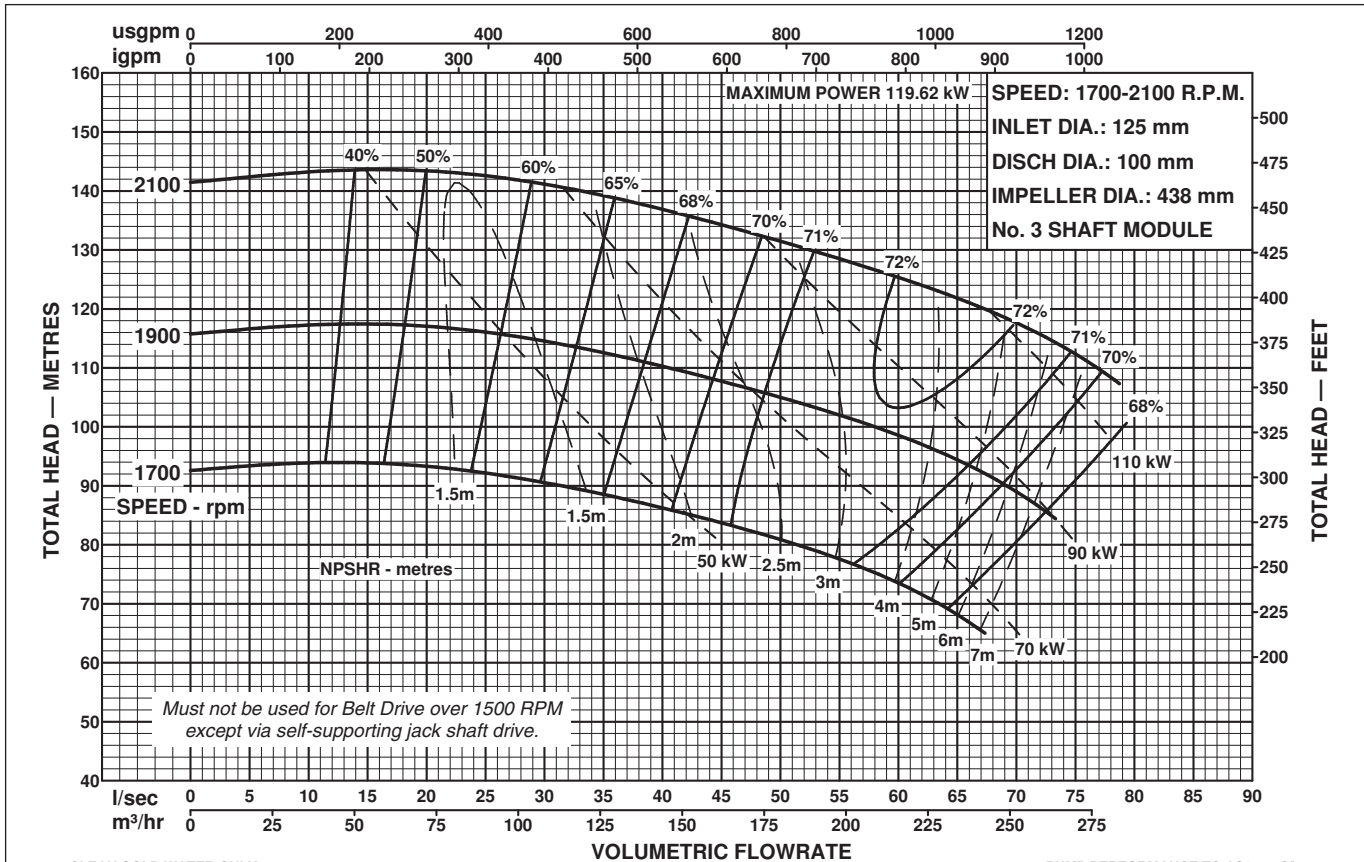
Performance to AS2417 Grade 2 for clean, cold water only.

May 2005

125 x 100-400 *SO* Sovereign

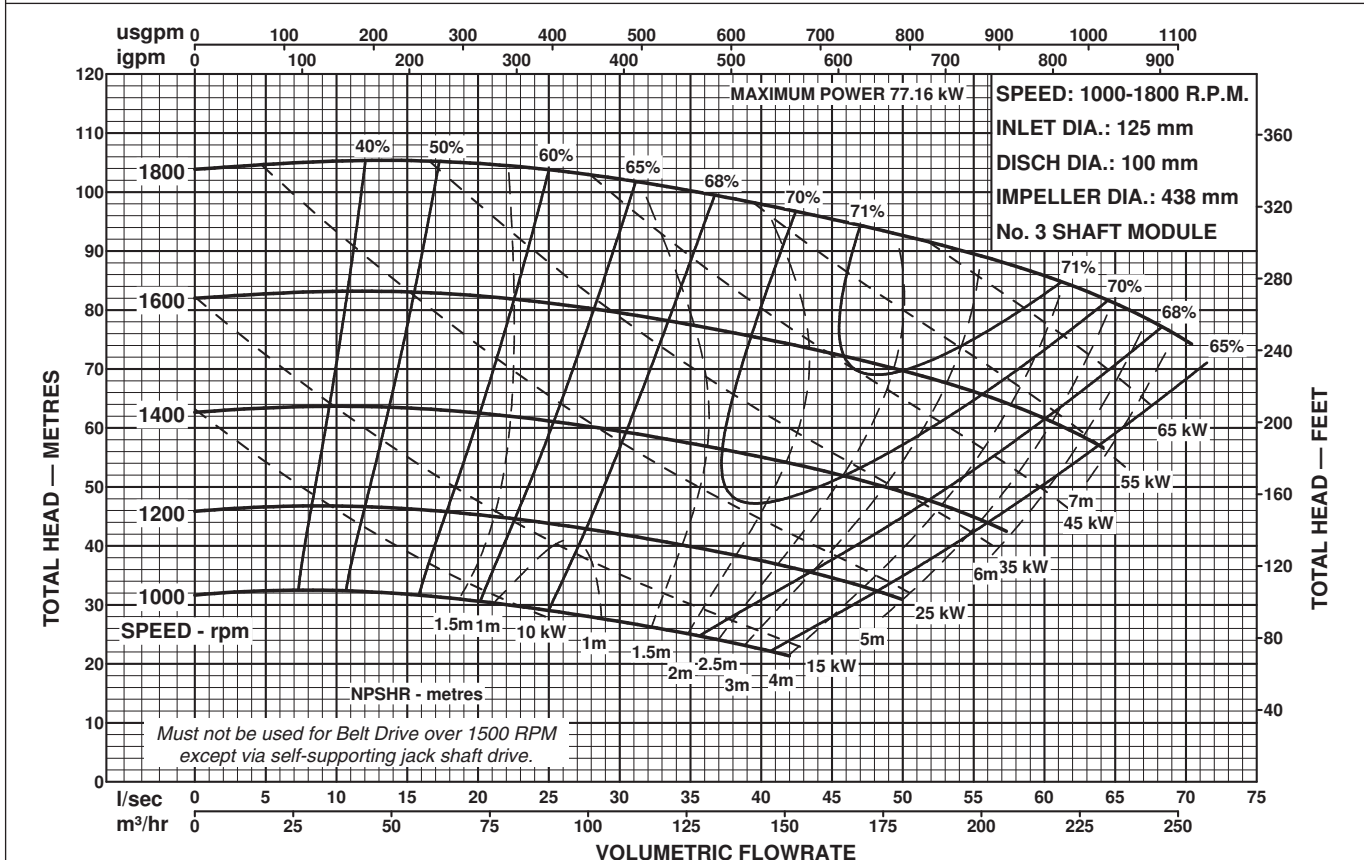


CENTRIFUGAL PUMP PERFORMANCE DATA



Performance to AS2417 Grade 2 for clean, cold water only.

May 2005



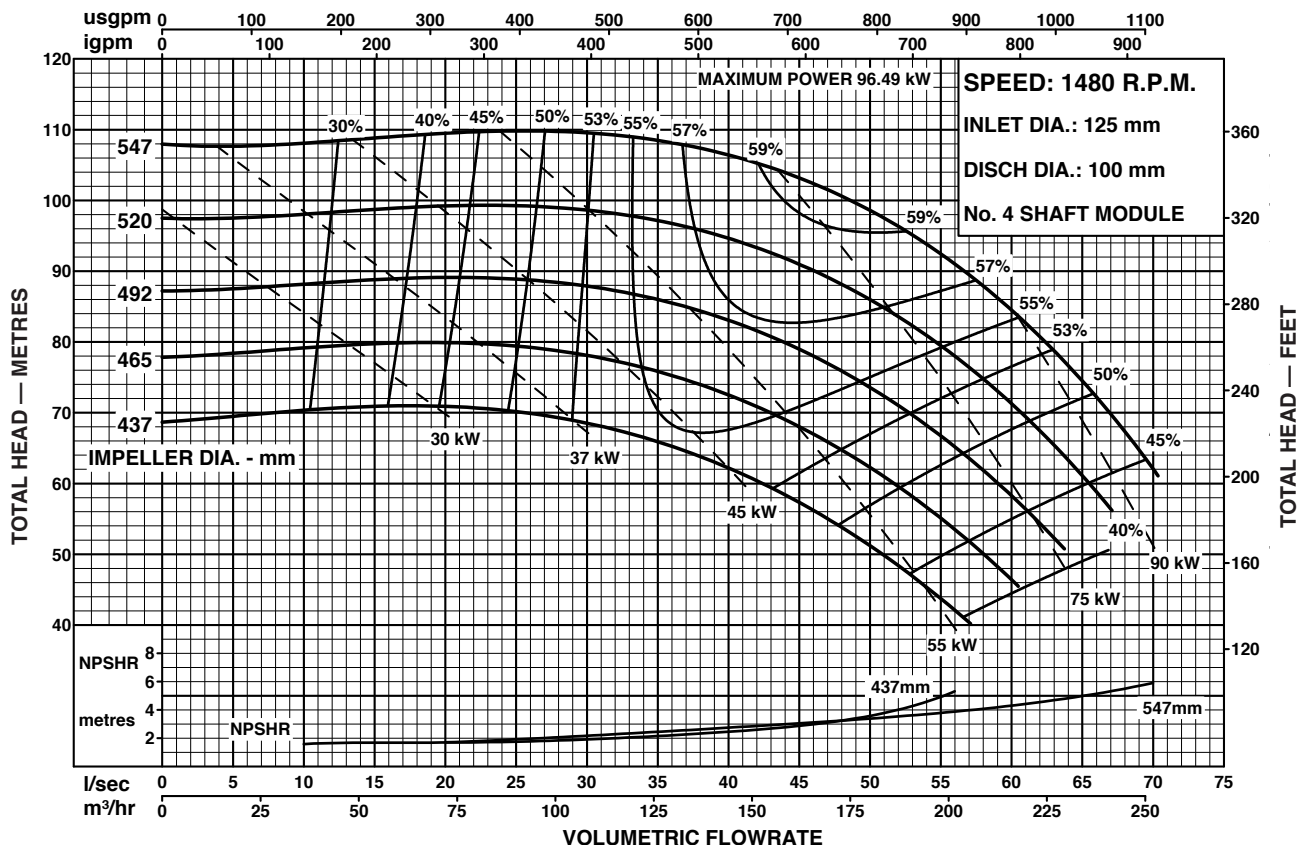
Performance to AS2417 Grade 2 for clean, cold water only.

May 2005



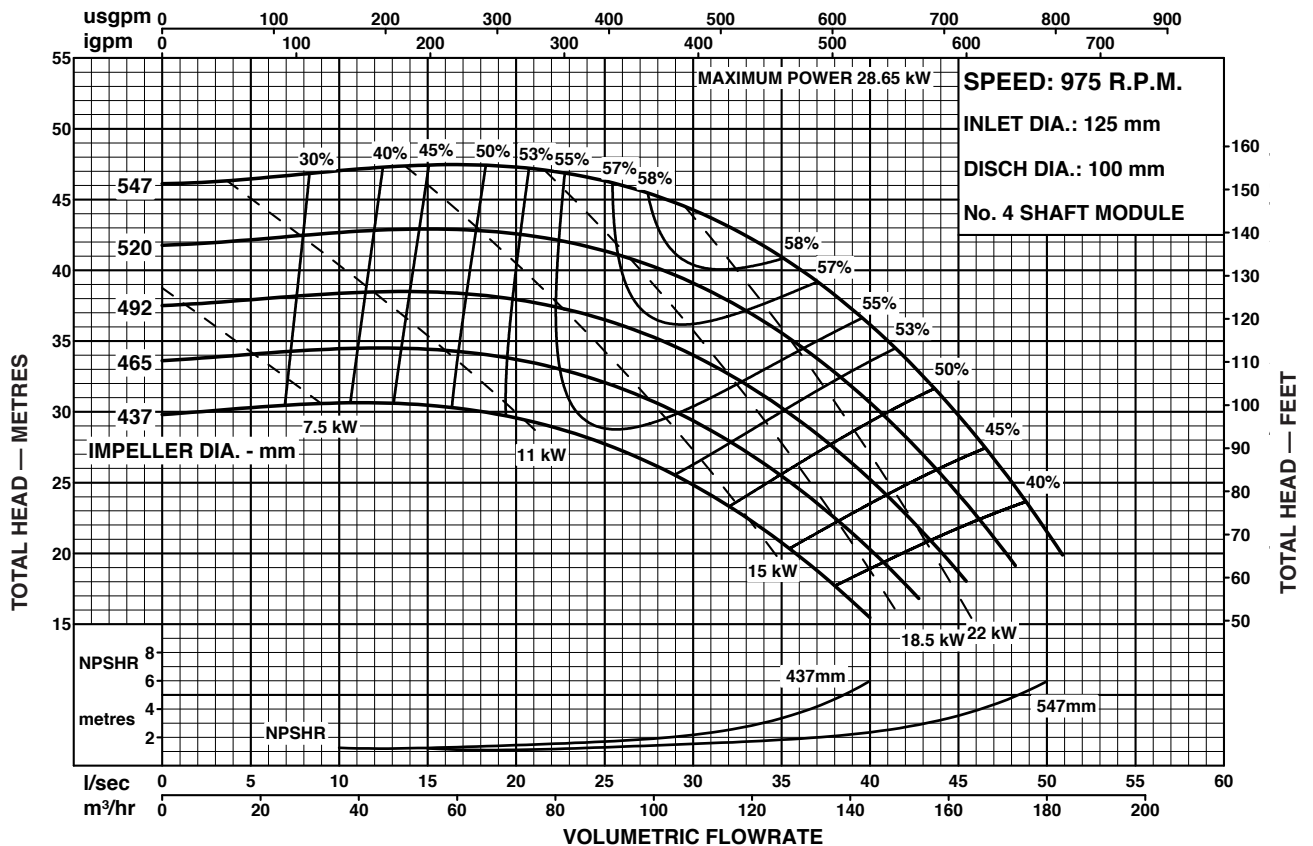
Sovereign 125 x 100-500

CENTRIFUGAL PUMP PERFORMANCE DATA



Performance to AS2417 Grade 2 for clean, cold water only.

May 2005



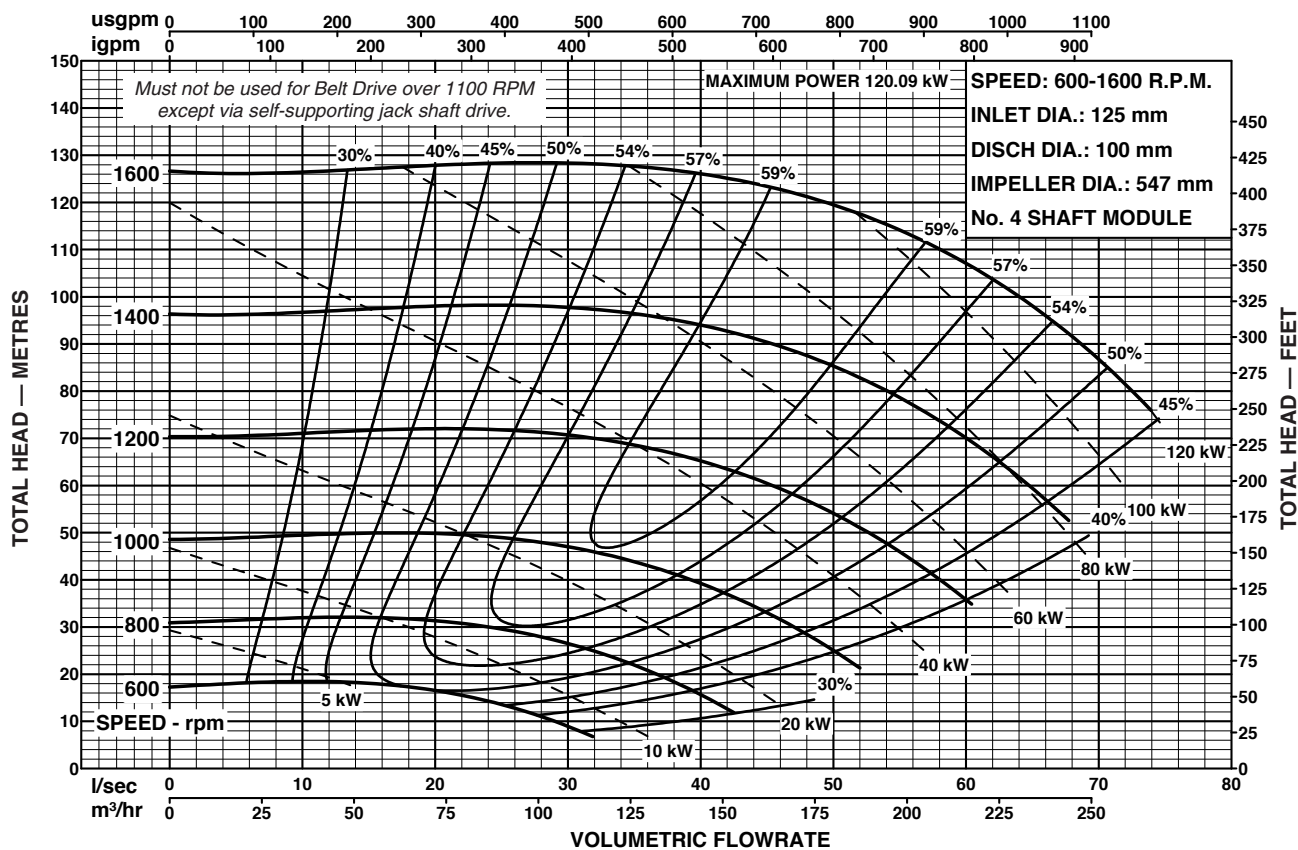
Performance to AS2417 Grade 2 for clean, cold water only.

May 2005

125 x 100-500 *SO* Sovereign



CENTRIFUGAL PUMP PERFORMANCE DATA



Performance to AS2417 Grade 2 for clean, cold water only.

May 2005

Performance to AS2417 Grade 2 for clean, cold water only.

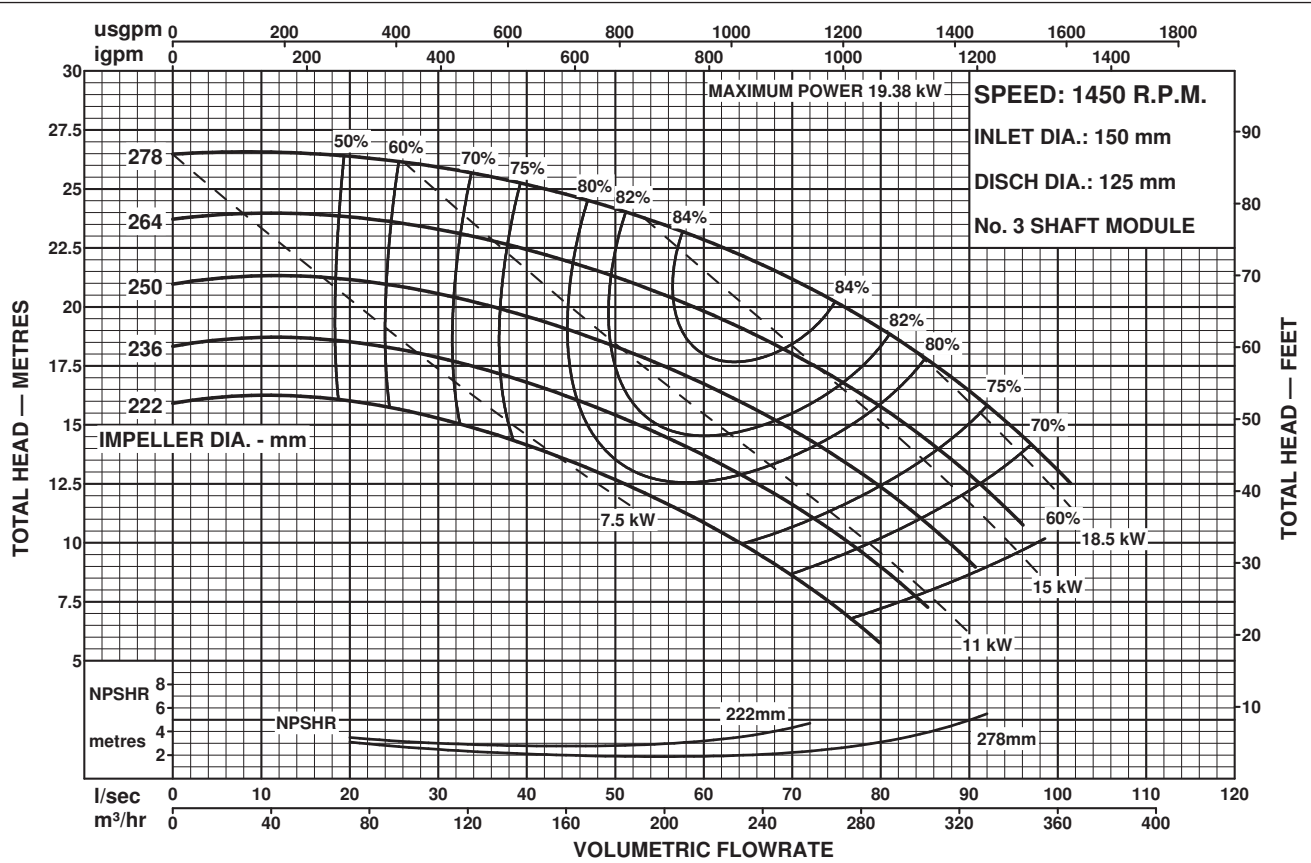
May 2005

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CENTRIFUGAL PUMP PERFORMANCE DATA

Sovereign 150 x 125-250



Performance to AS2417 Grade 2 for clean, cold water only.

May 2005

Performance to AS2417 Grade 2 for clean, cold water only.

May 2005

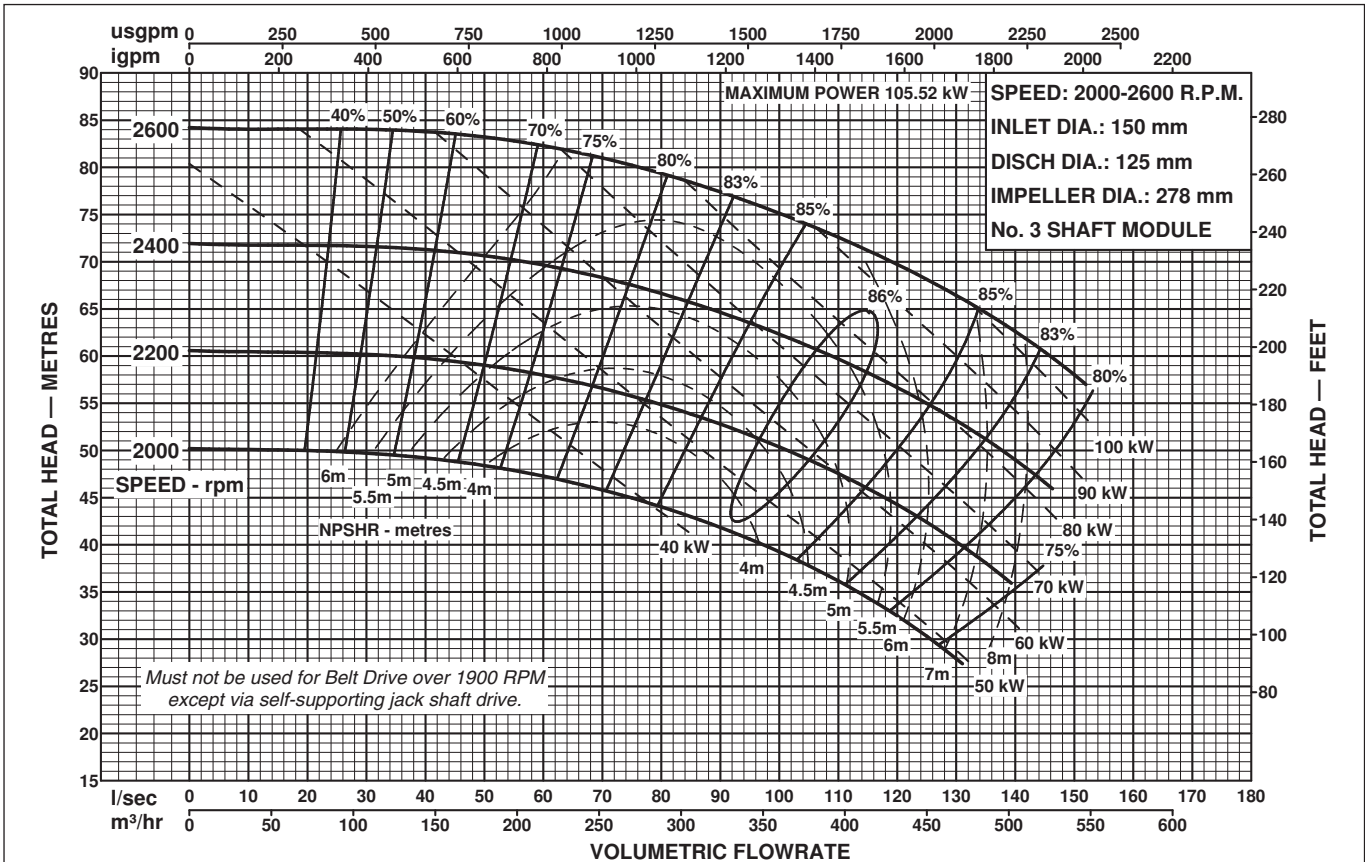
A division of **tyco** Flow Control Pacific Pty Ltd A.B.N. 83 000 922 690

150 x 125-250

SOVEREIGN

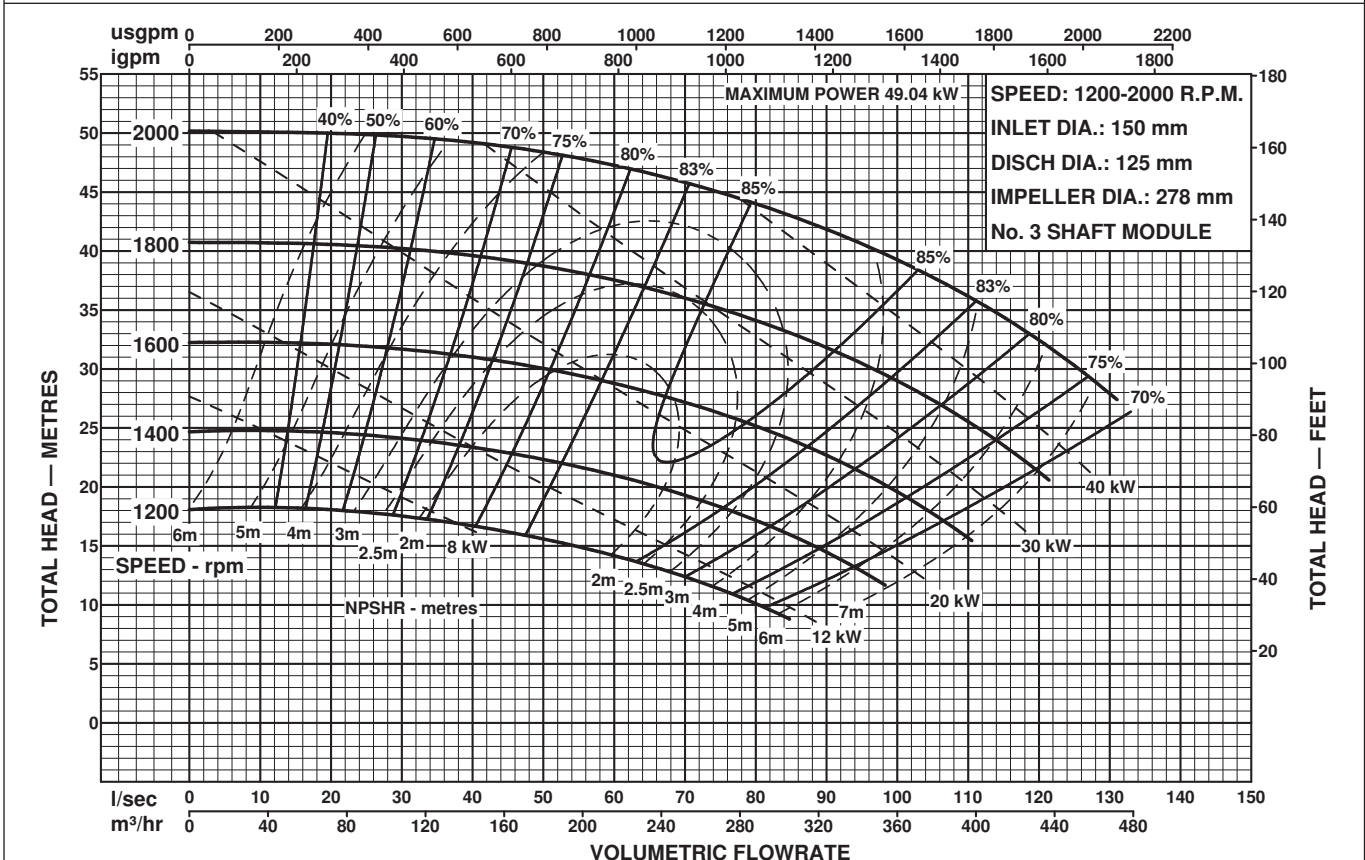


CENTRIFUGAL PUMP PERFORMANCE DATA



Performance to AS2417 Grade 2 for clean, cold water only.

May 2005



Performance to AS2417 Grade 2 for clean, cold water only.

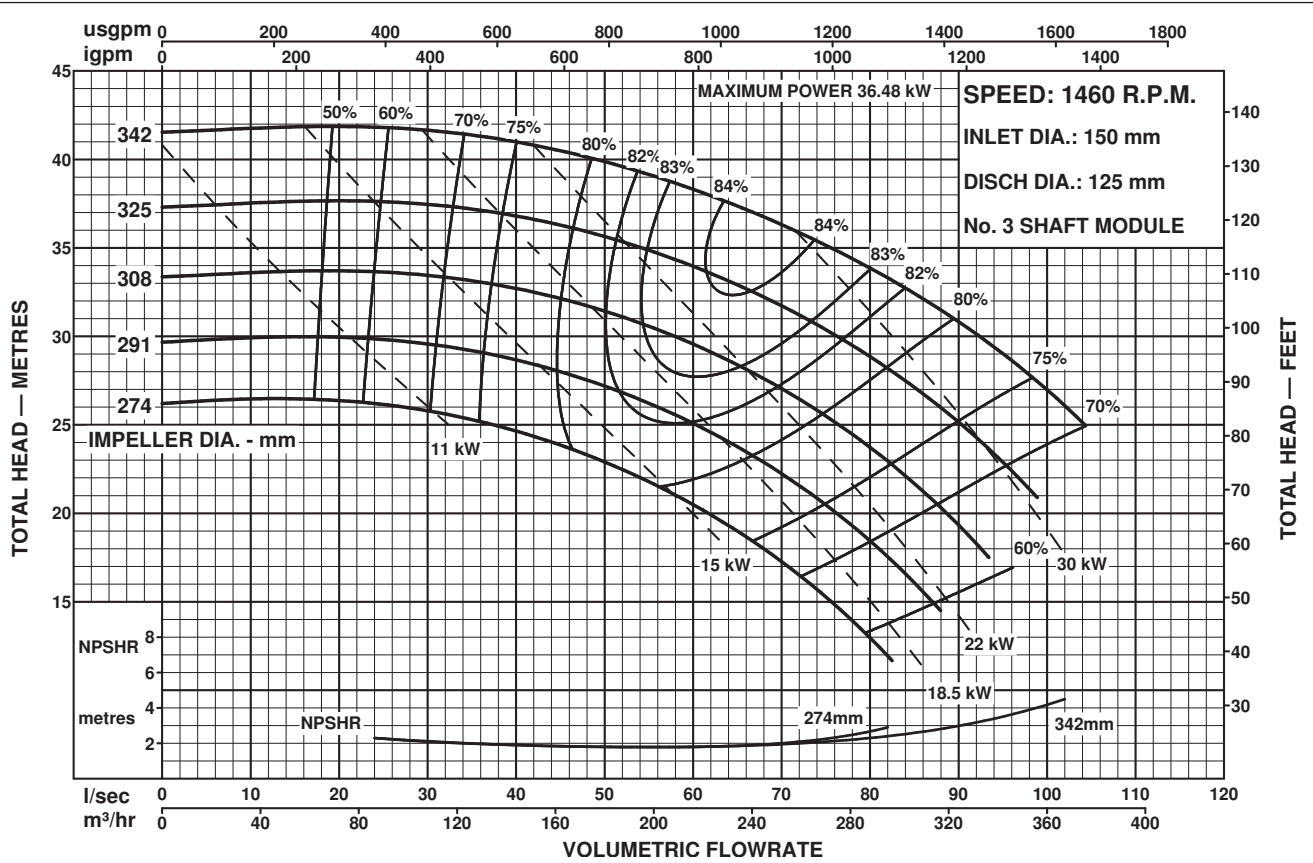
May 2005

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Sovereign 150 x 125-315

CENTRIFUGAL PUMP PERFORMANCE DATA



Performance to AS2417 Grade 2 for clean, cold water only.

May 2005

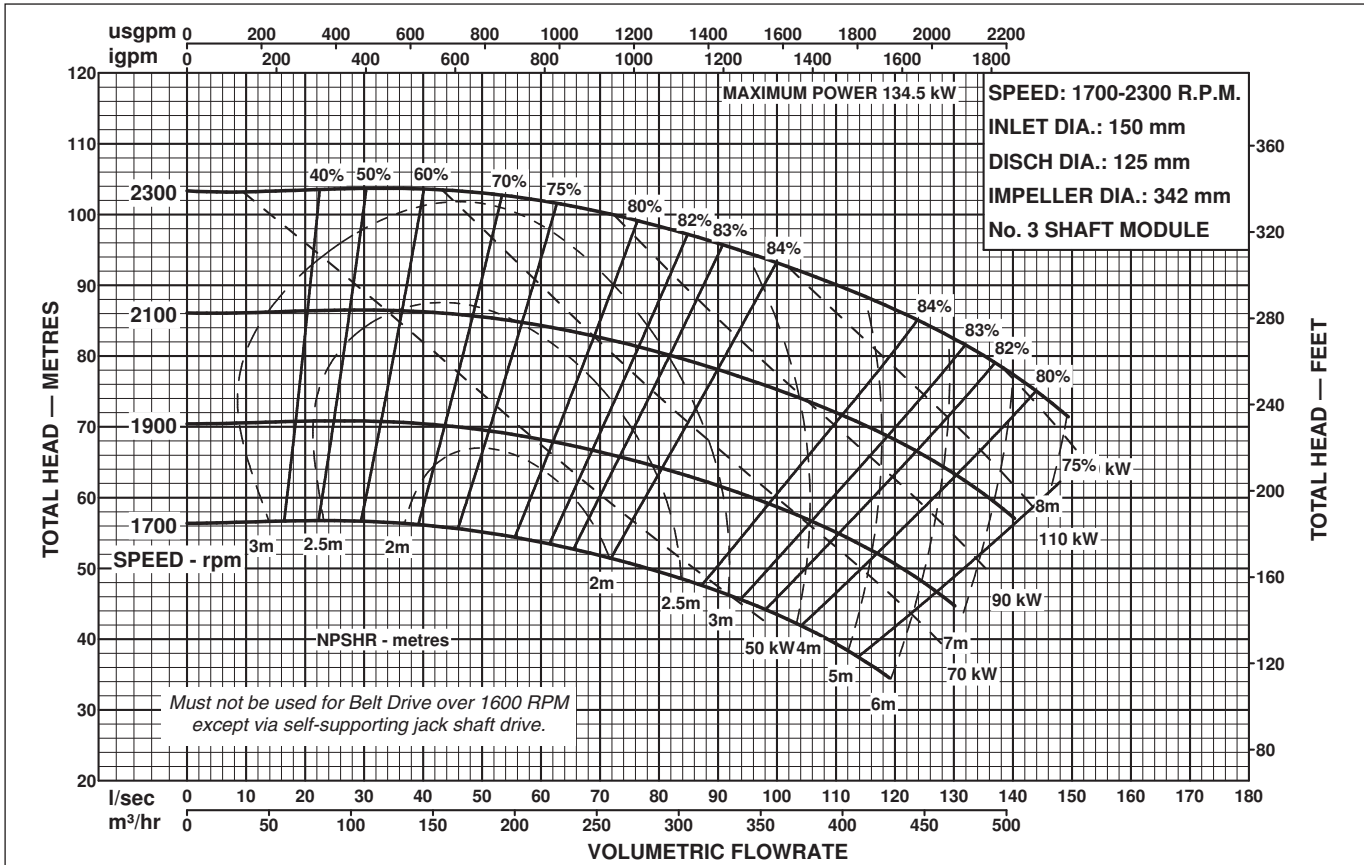
Performance to AS2417 Grade 2 for clean, cold water only.

May 2005

150 x 125-315 *SO* Sovereign

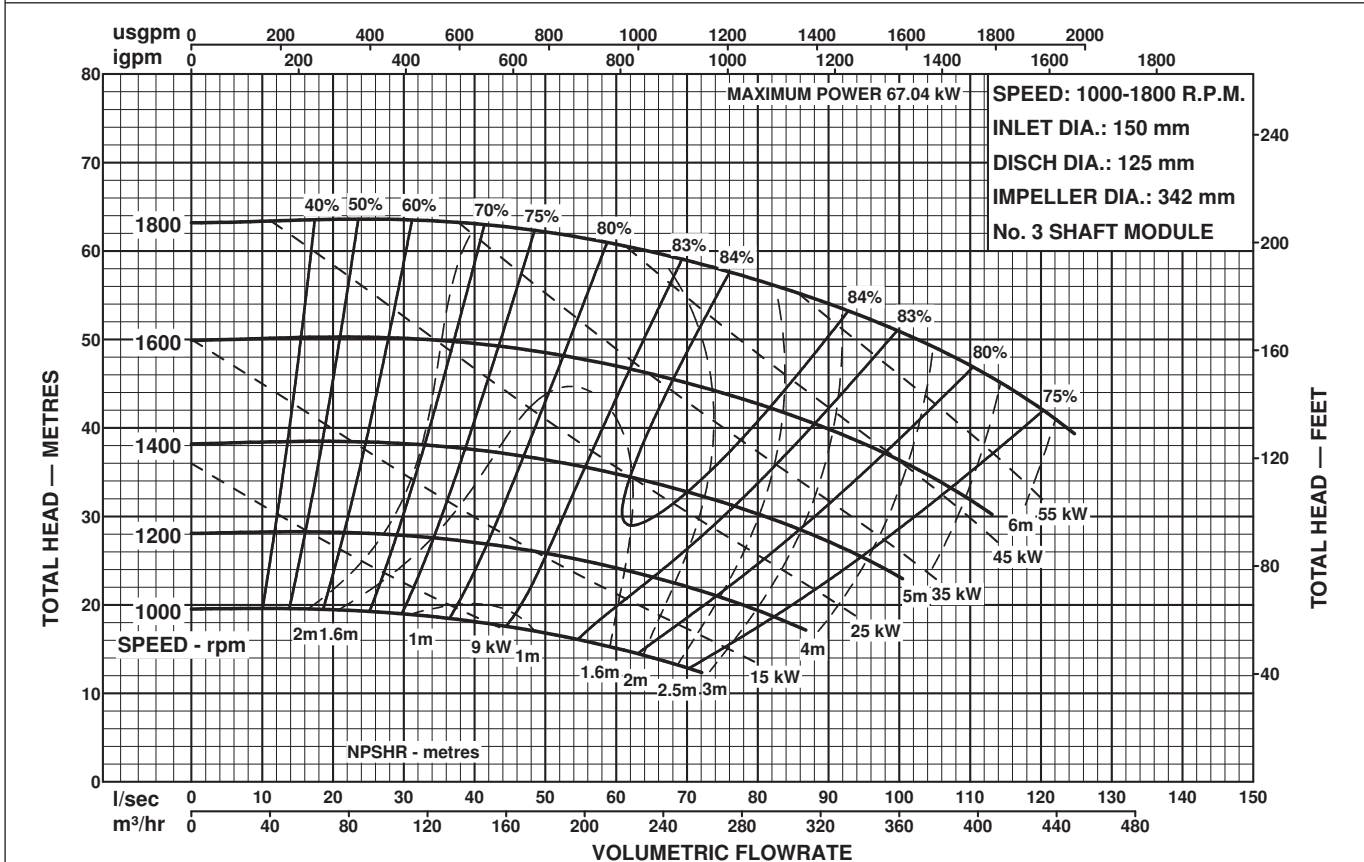


CENTRIFUGAL PUMP PERFORMANCE DATA



Performance to AS2417 Grade 2 for clean, cold water only.

May 2005



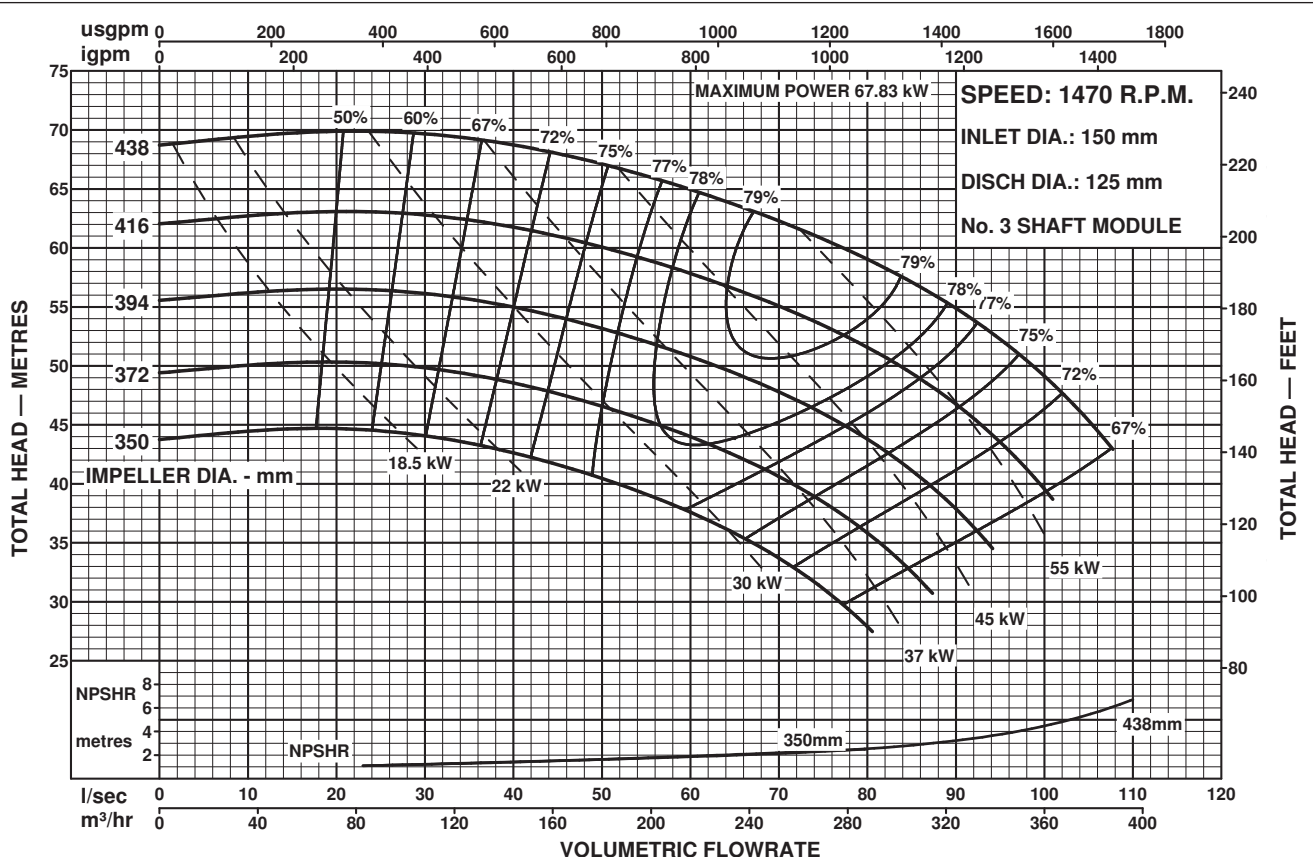
Performance to AS2417 Grade 2 for clean, cold water only.

May 2005



CENTRIFUGAL PUMP PERFORMANCE DATA

Sovereign 150 x 125-400



Performance to AS2417 Grade 2 for clean, cold water only.

May 2005

Performance to AS2417 Grade 2 for clean, cold water only.

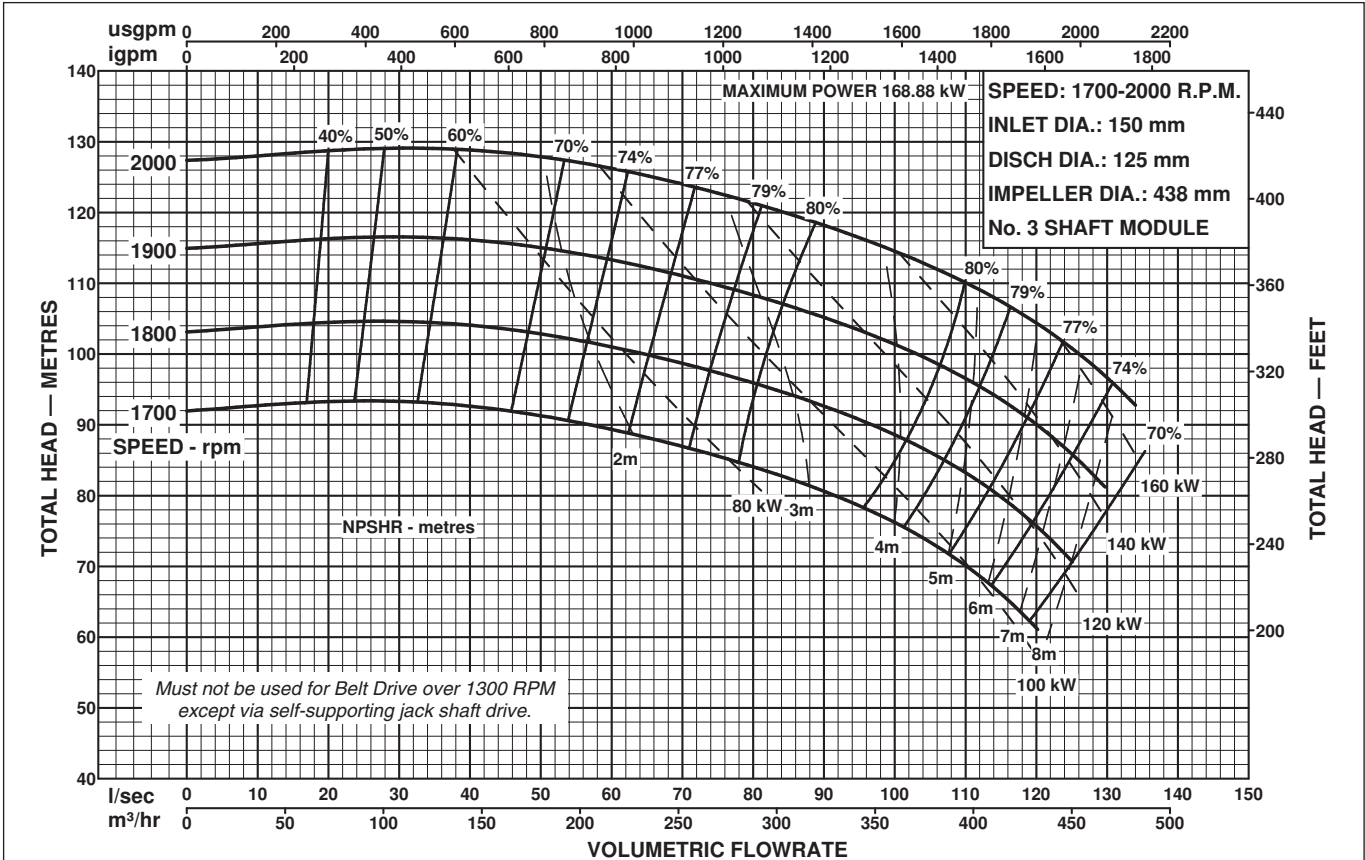
May 2005

150 x 125-400

SO Sovereign

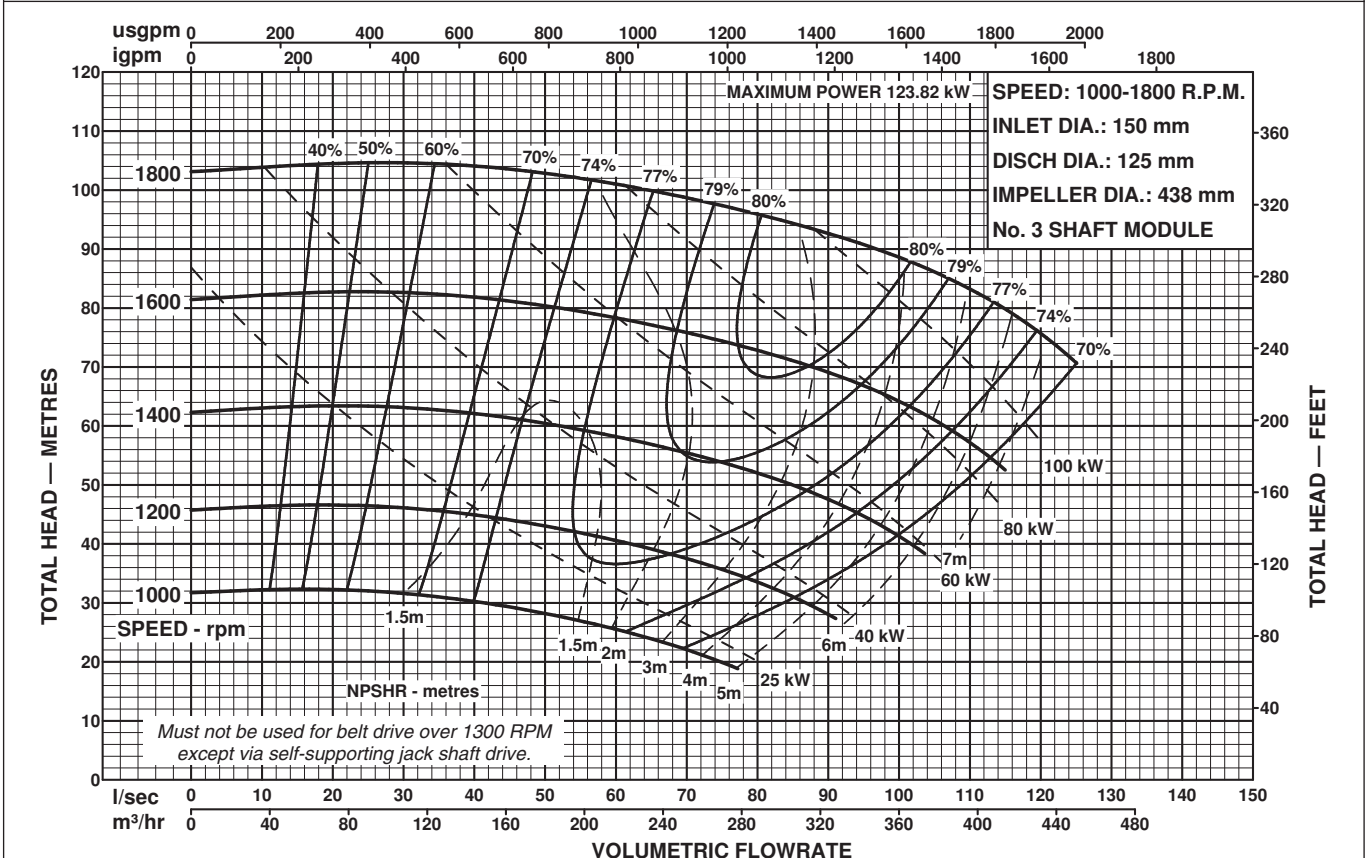


CENTRIFUGAL PUMP PERFORMANCE DATA



Performance to AS2417 Grade 2 for clean, cold water only.

May 2005



Performance to AS2417 Grade 2 for clean, cold water only.

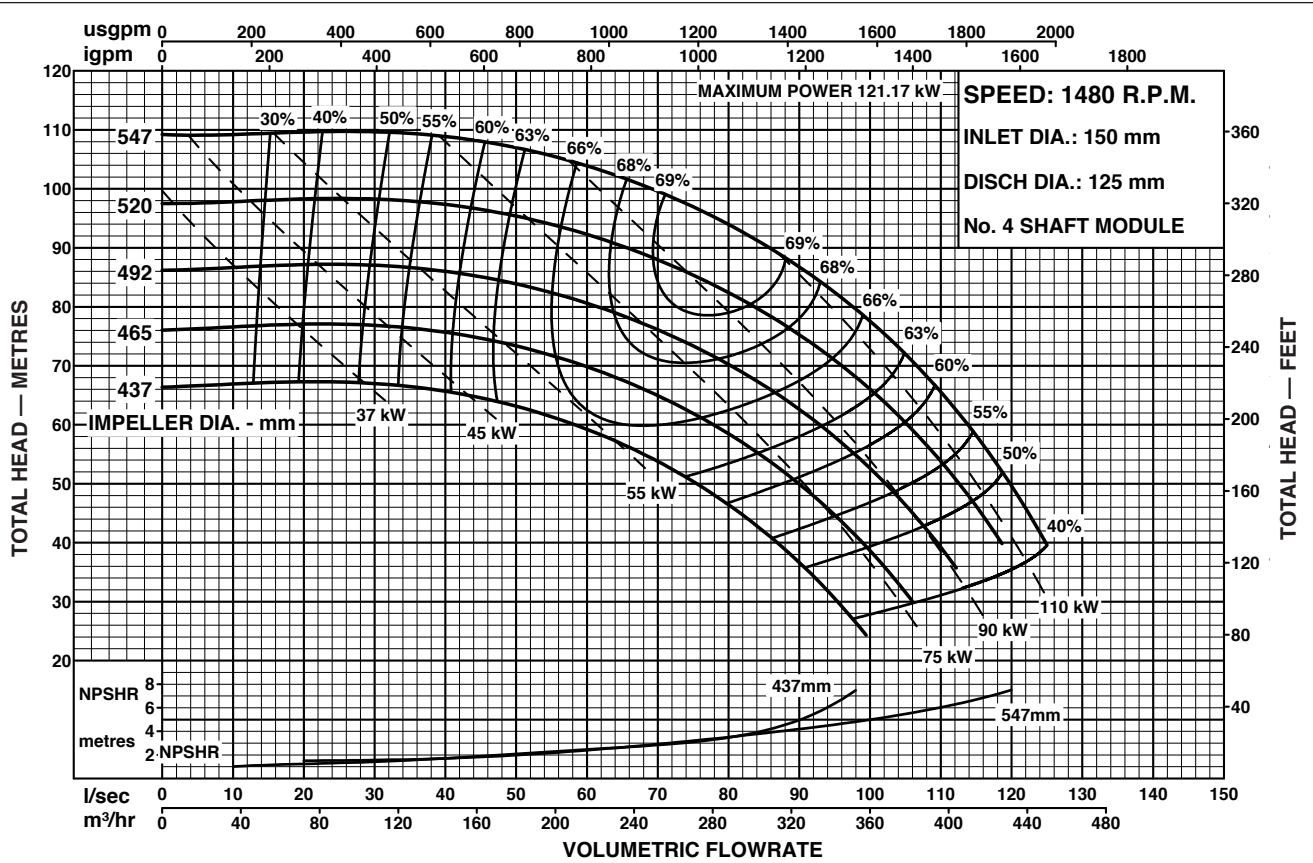
May 2005

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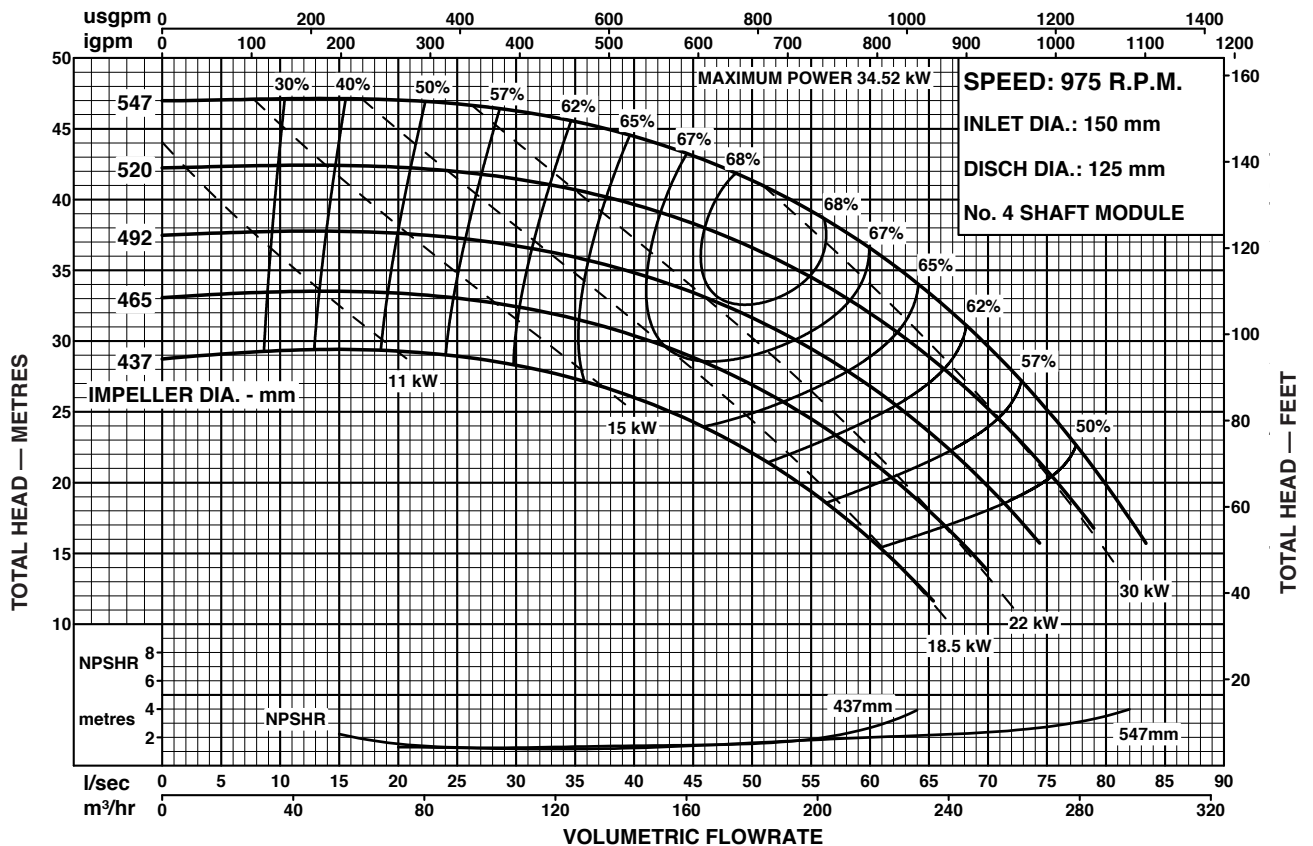
Sovereign 150 x 125-500

CENTRIFUGAL PUMP PERFORMANCE DATA



Performance to AS2417 Grade 2 for clean, cold water only.

May 2005



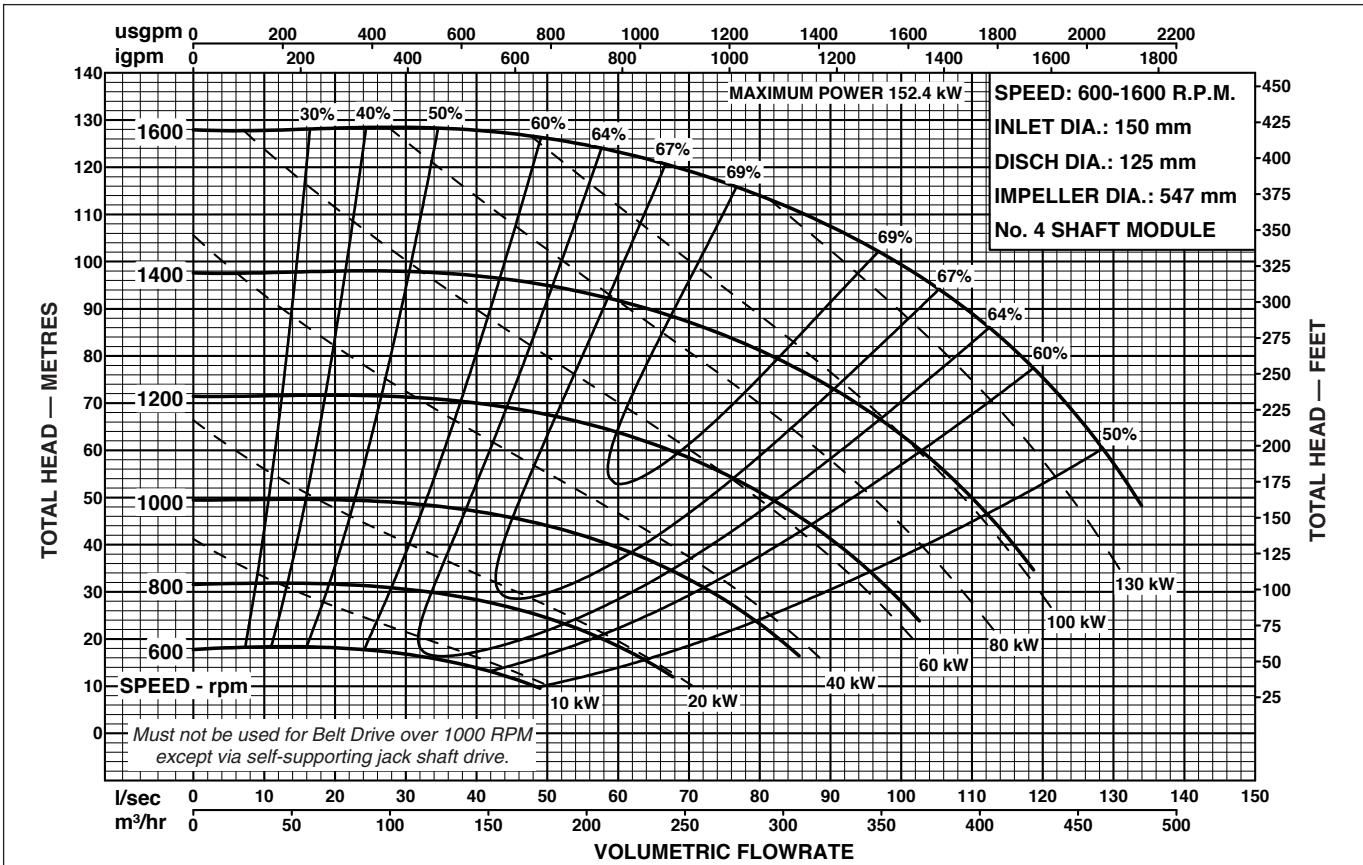
Performance to AS2417 Grade 2 for clean, cold water only.

May 2005

150 x 125-500 *SO*veraign



CENTRIFUGAL PUMP PERFORMANCE DATA



Performance to AS2417 Grade 2 for clean, cold water only.

May 2005

Performance to AS2417 Grade 2 for clean, cold water only.

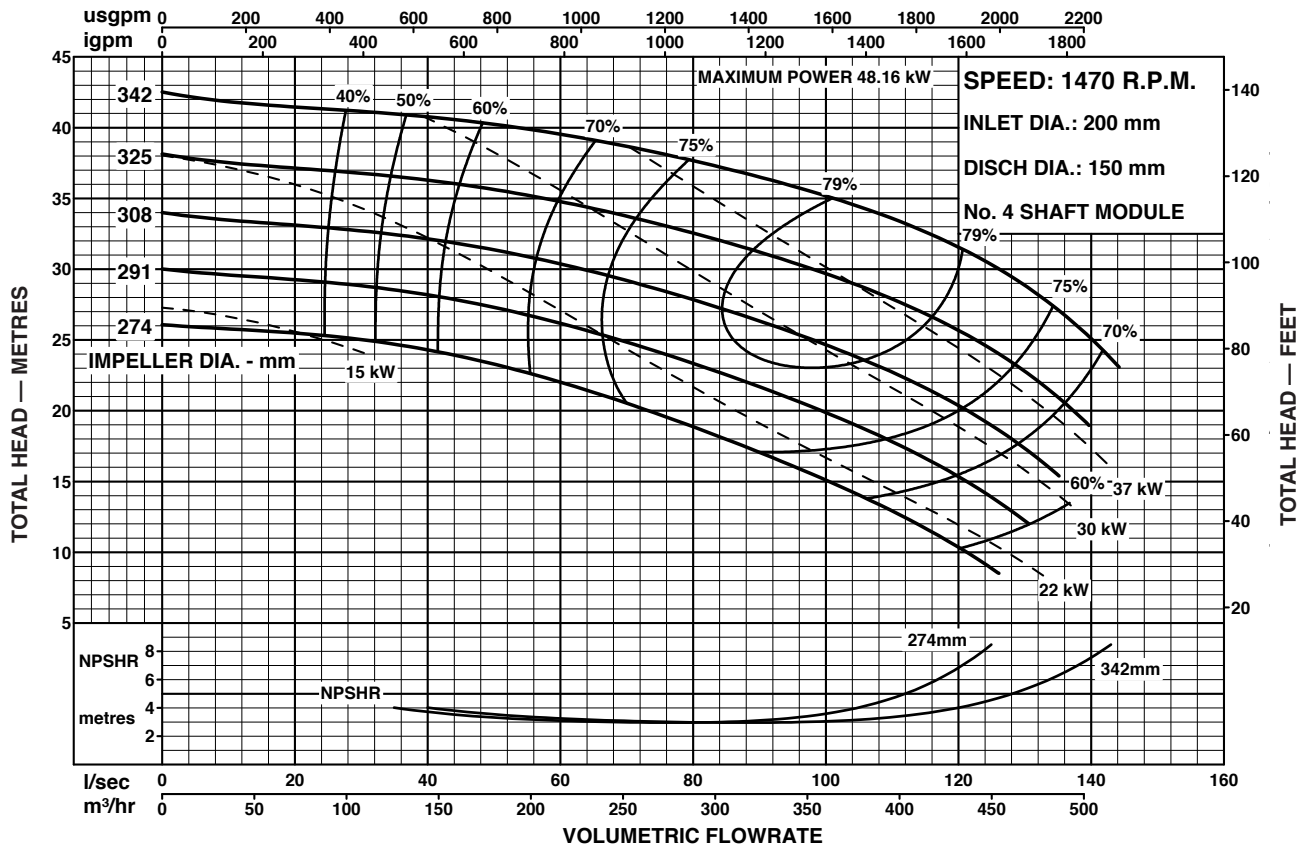
May 2005

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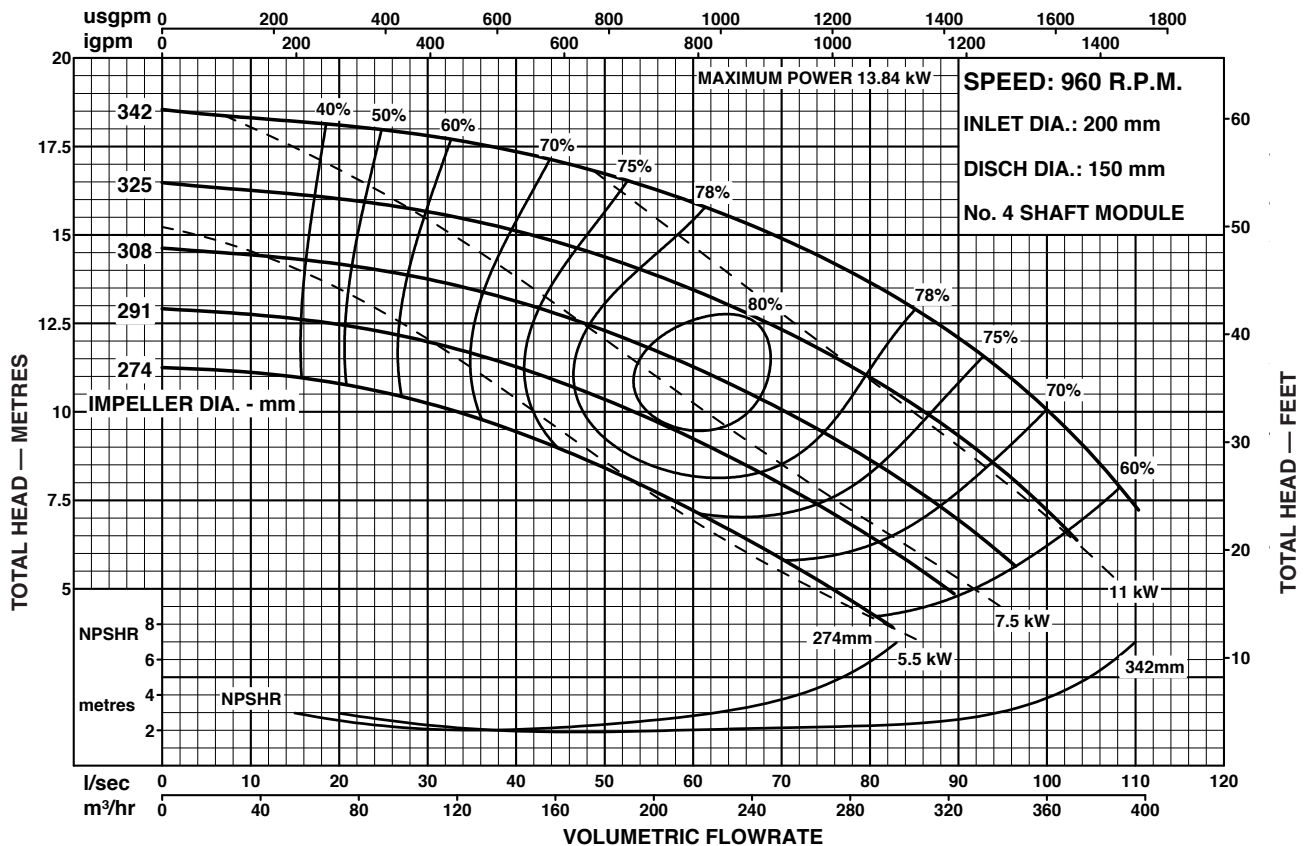
Sovereign 200 x 150-315

CENTRIFUGAL PUMP PERFORMANCE DATA



Performance to AS2417 Grade 2 for clean, cold water only.

May 2005



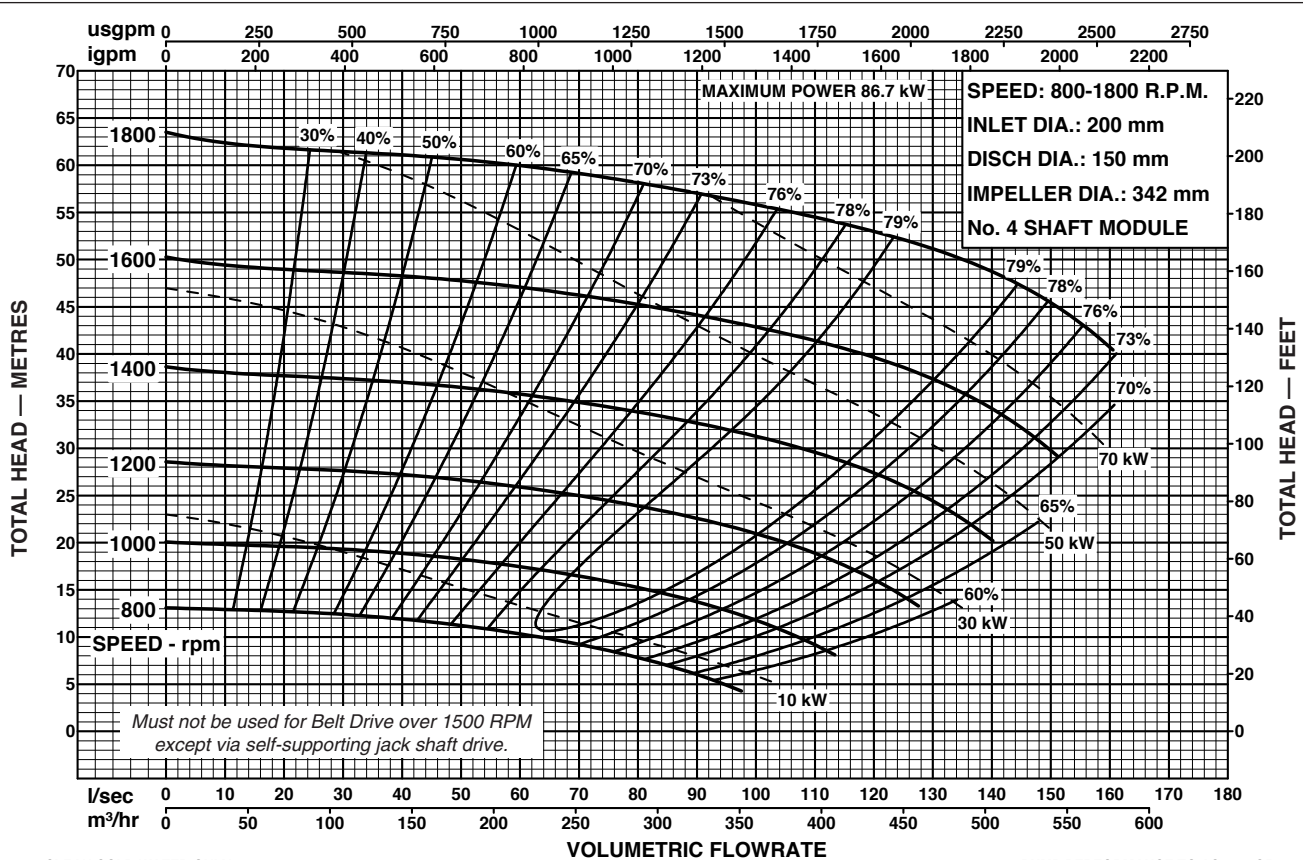
Performance to AS2417 Grade 2 for clean, cold water only.

May 2005

200 x 150-315 *SO* Sovereign



CENTRIFUGAL PUMP PERFORMANCE DATA



Performance to AS2417 Grade 2 for clean, cold water only.

May 2005

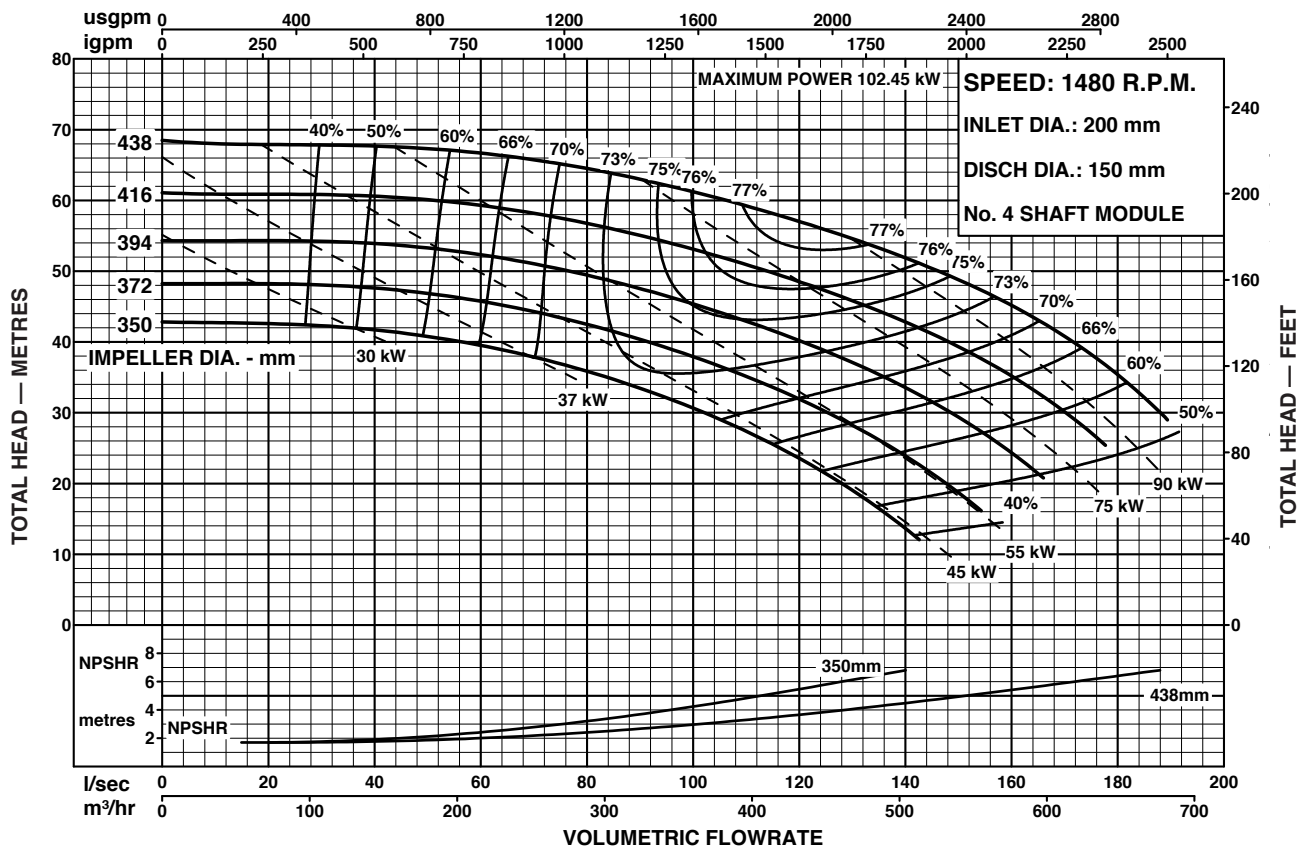
Performance to AS2417 Grade 2 for clean, cold water only.

May 2005

A division of **tyco** Flow Control Pacific Pty Ltd A.B.N. 83 000 922 690

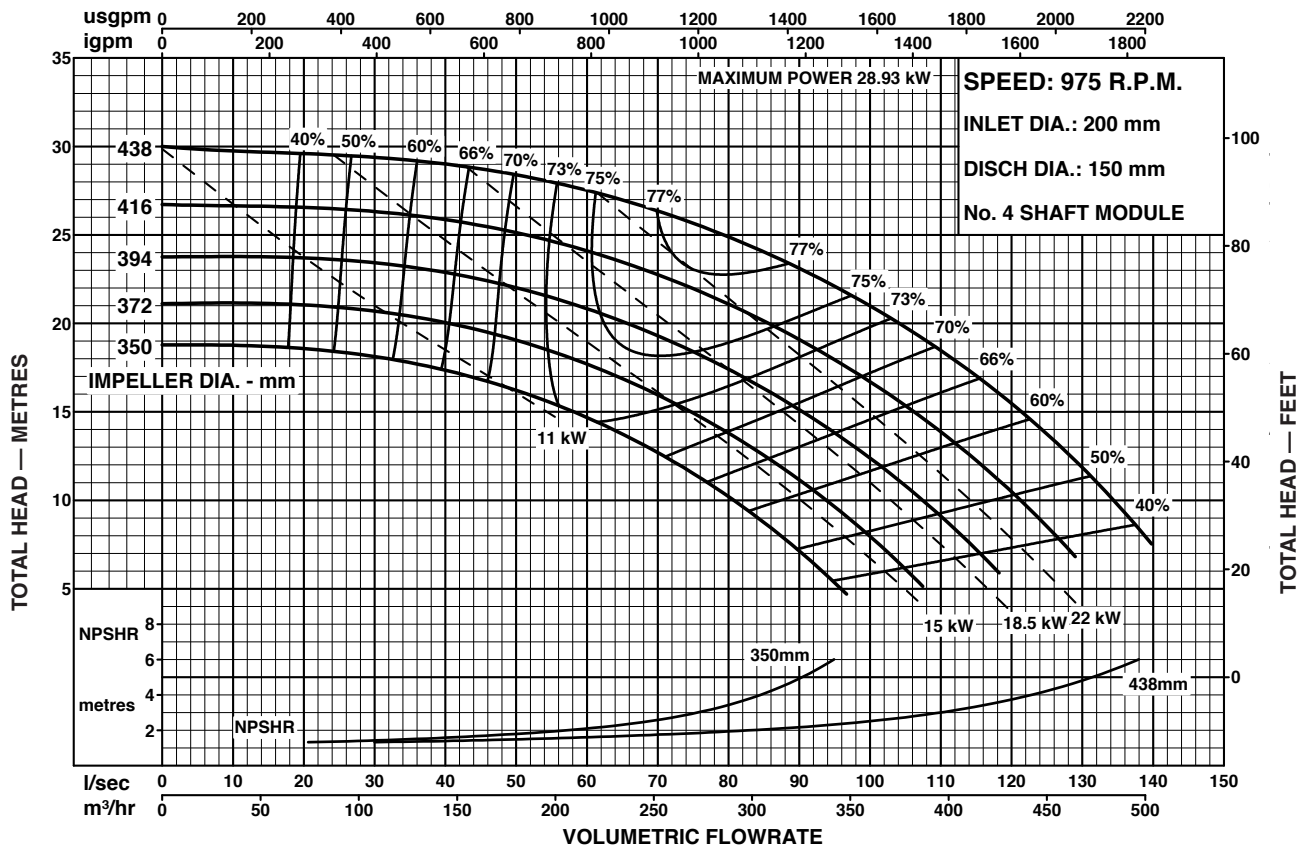


CENTRIFUGAL PUMP PERFORMANCE DATA



Performance to AS2417 Grade 2 for clean, cold water only.

May 2005



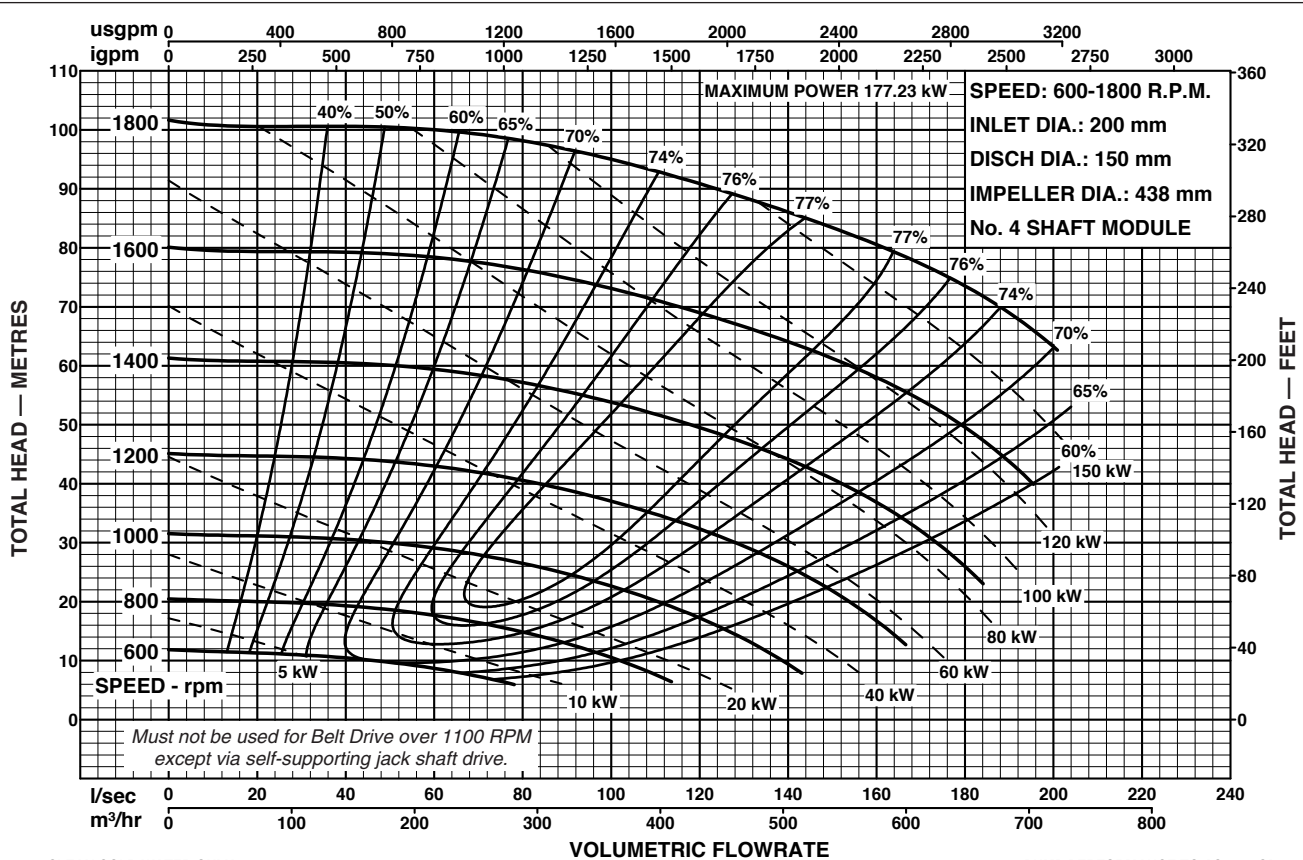
Performance to AS2417 Grade 2 for clean, cold water only.

May 2005

200 x 150-400 *SO* Sovereign



CENTRIFUGAL PUMP PERFORMANCE DATA



Performance to AS2417 Grade 2 for clean, cold water only.

May 2005

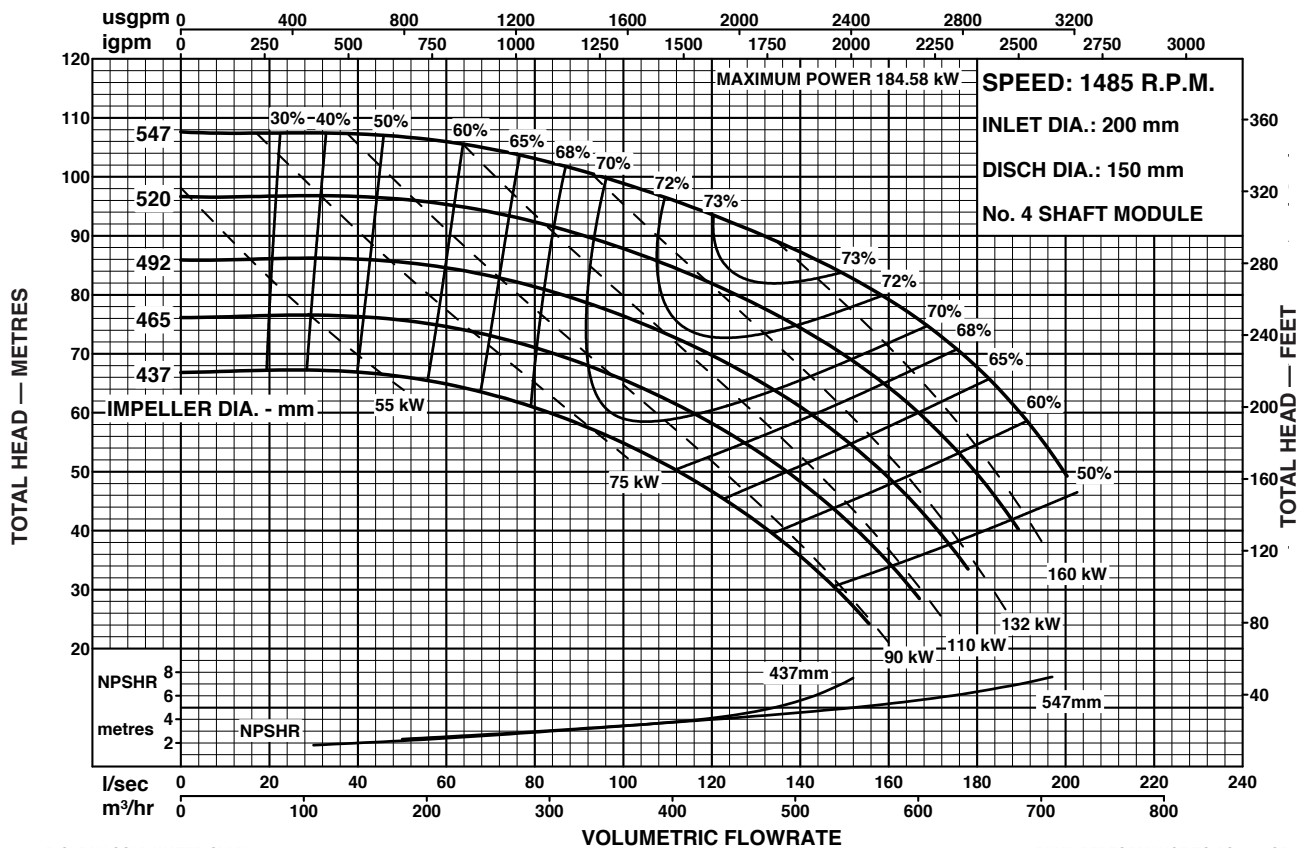
Performance to AS2417 Grade 2 for clean, cold water only.

May 2005



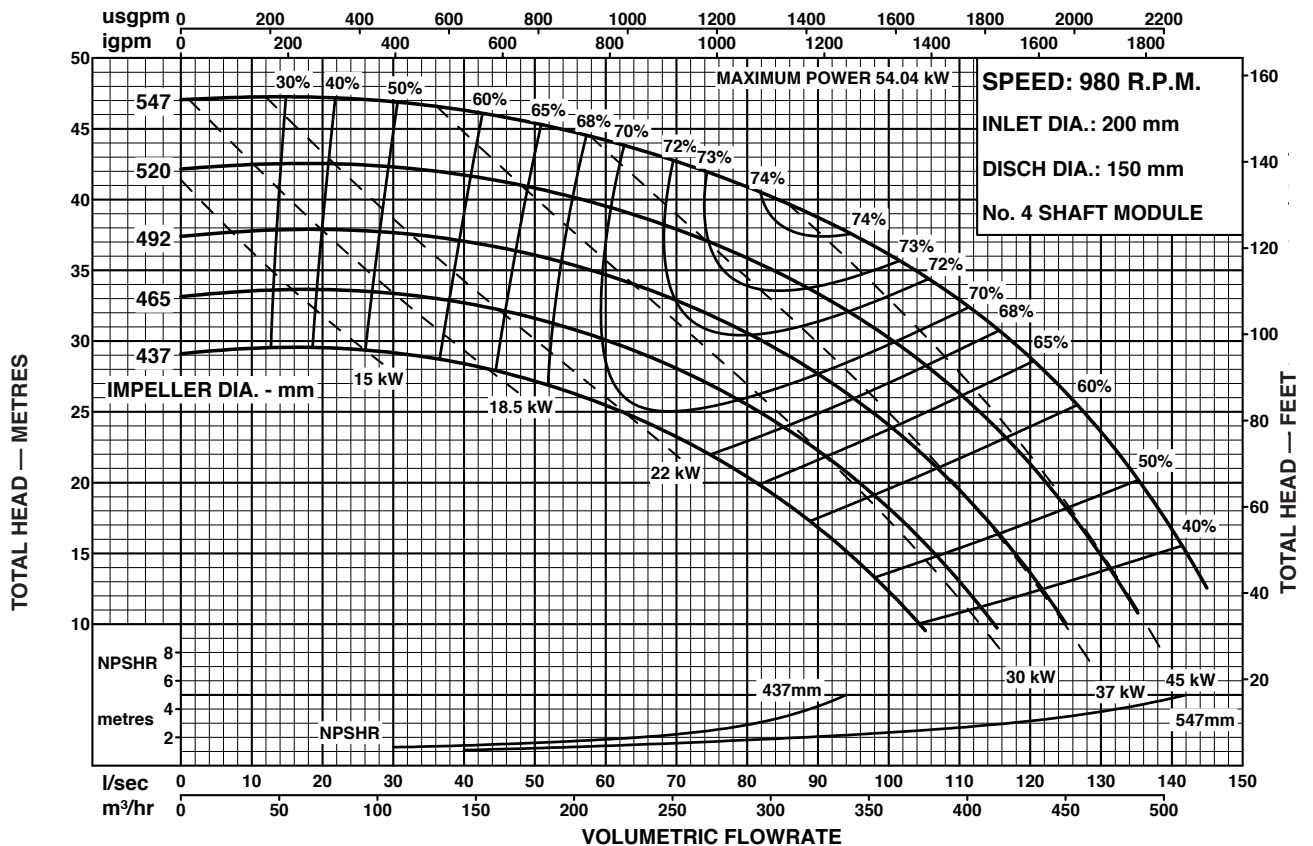
CENTRIFUGAL PUMP PERFORMANCE DATA

ISO Sovereign 200 x 150-500



Performance to AS2417 Grade 2 for clean, cold water only.

May 2005



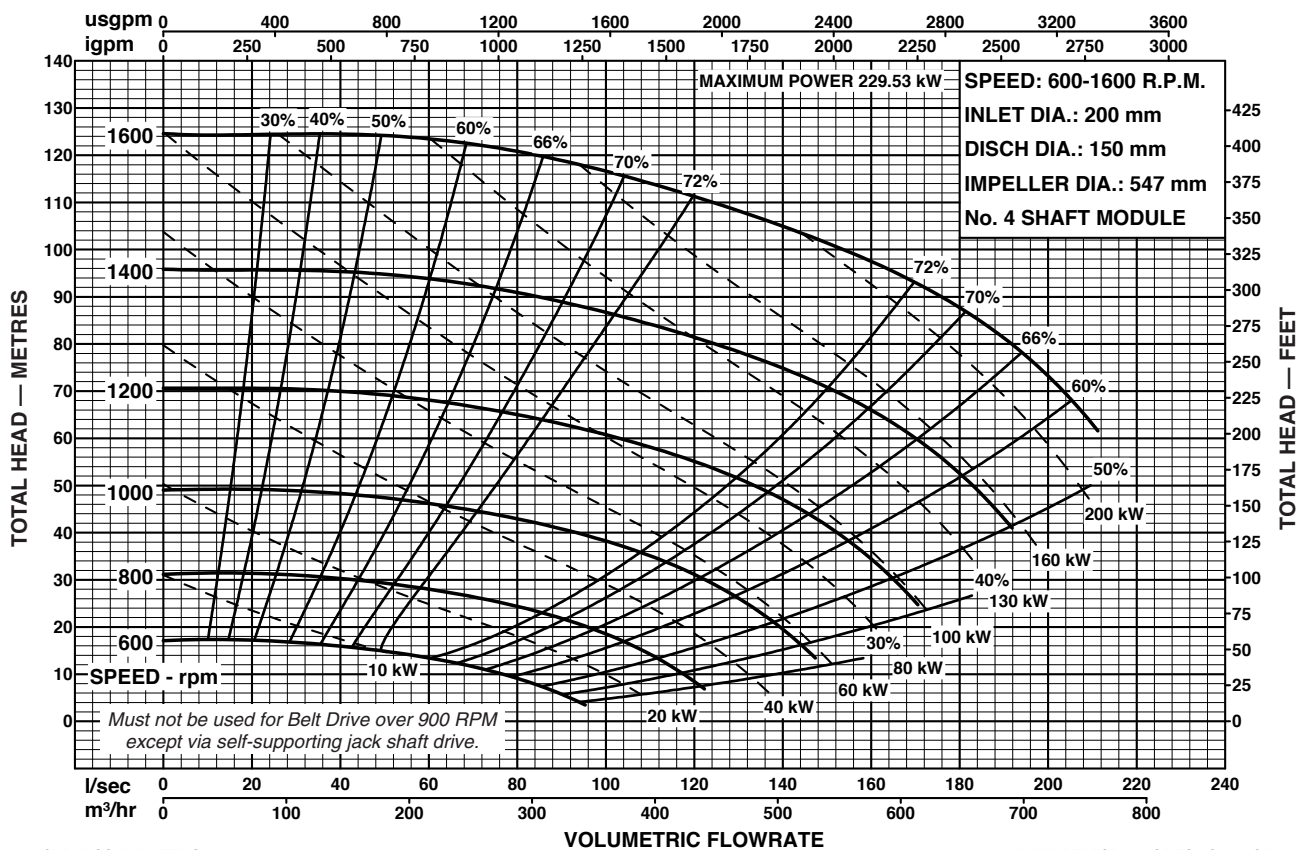
Performance to AS2417 Grade 2 for clean, cold water only.

May 2005

200 x 150-500 *SO* Sovereign



CENTRIFUGAL PUMP PERFORMANCE DATA



Performance to AS2417 Grade 2 for clean, cold water only.

May 2005

Performance to AS2417 Grade 2 for clean, cold water only.

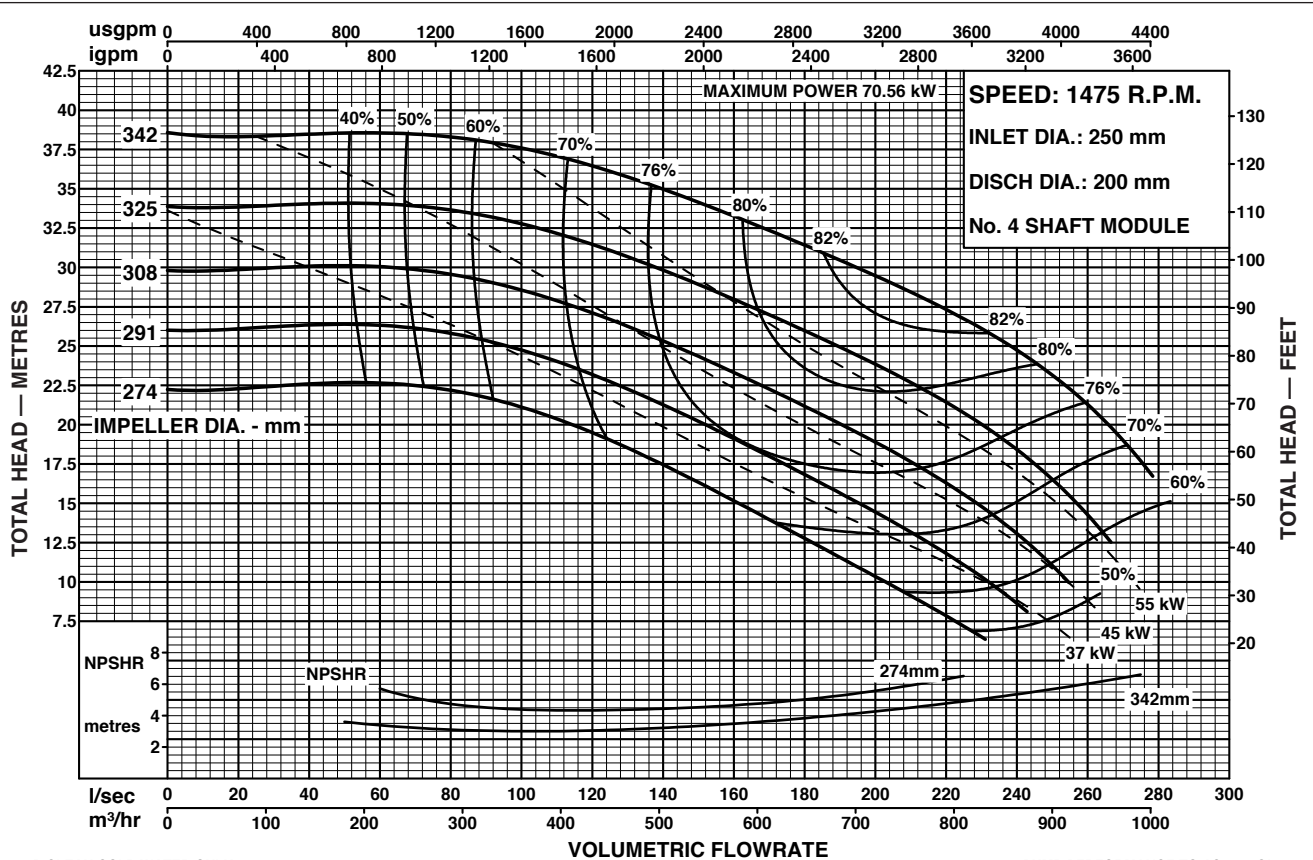
May 2005

A division of **tyco** Flow Control Pacific Pty Ltd A.B.N. 83 000 922 690



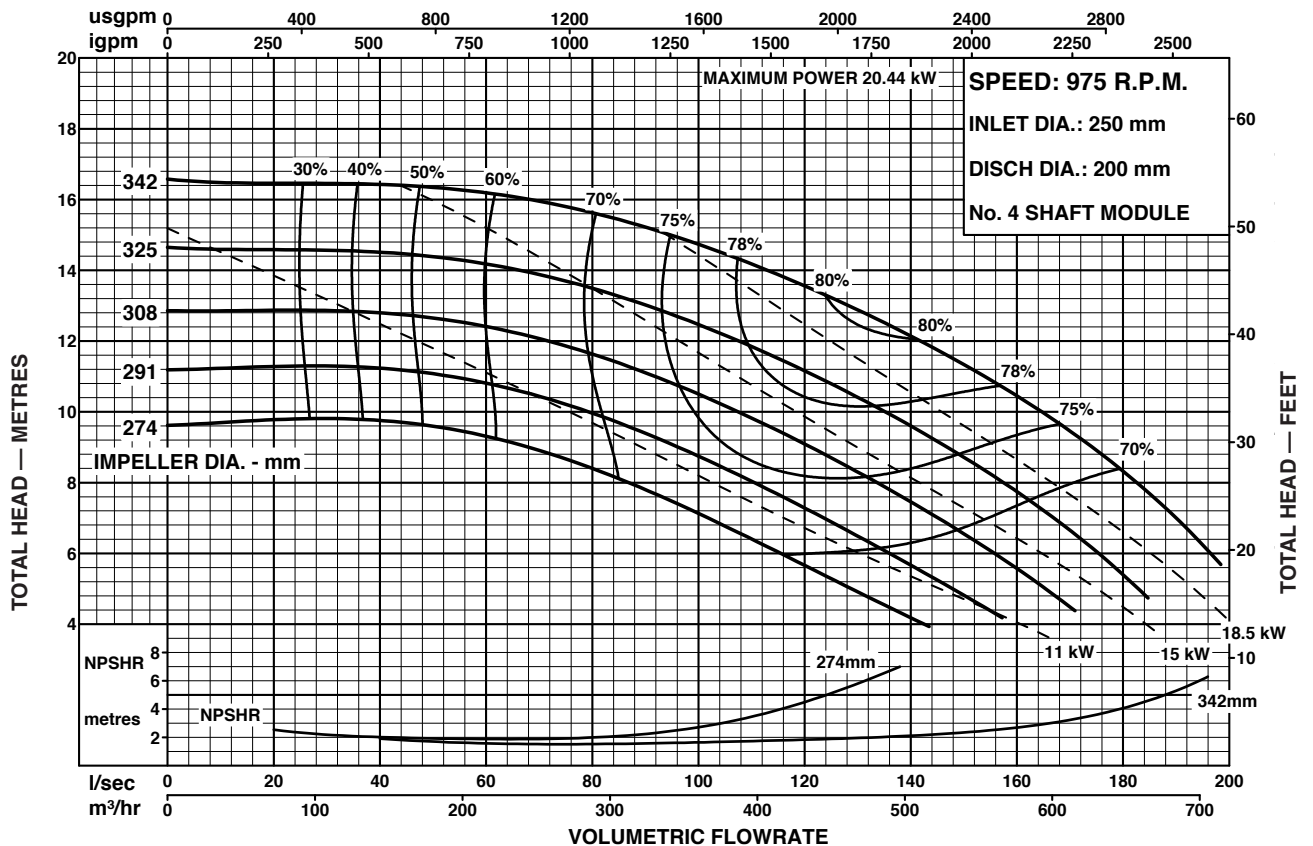
CENTRIFUGAL PUMP PERFORMANCE DATA

Sovereign 250 x 200-315



Performance to AS2417 Grade 2 for clean, cold water only.

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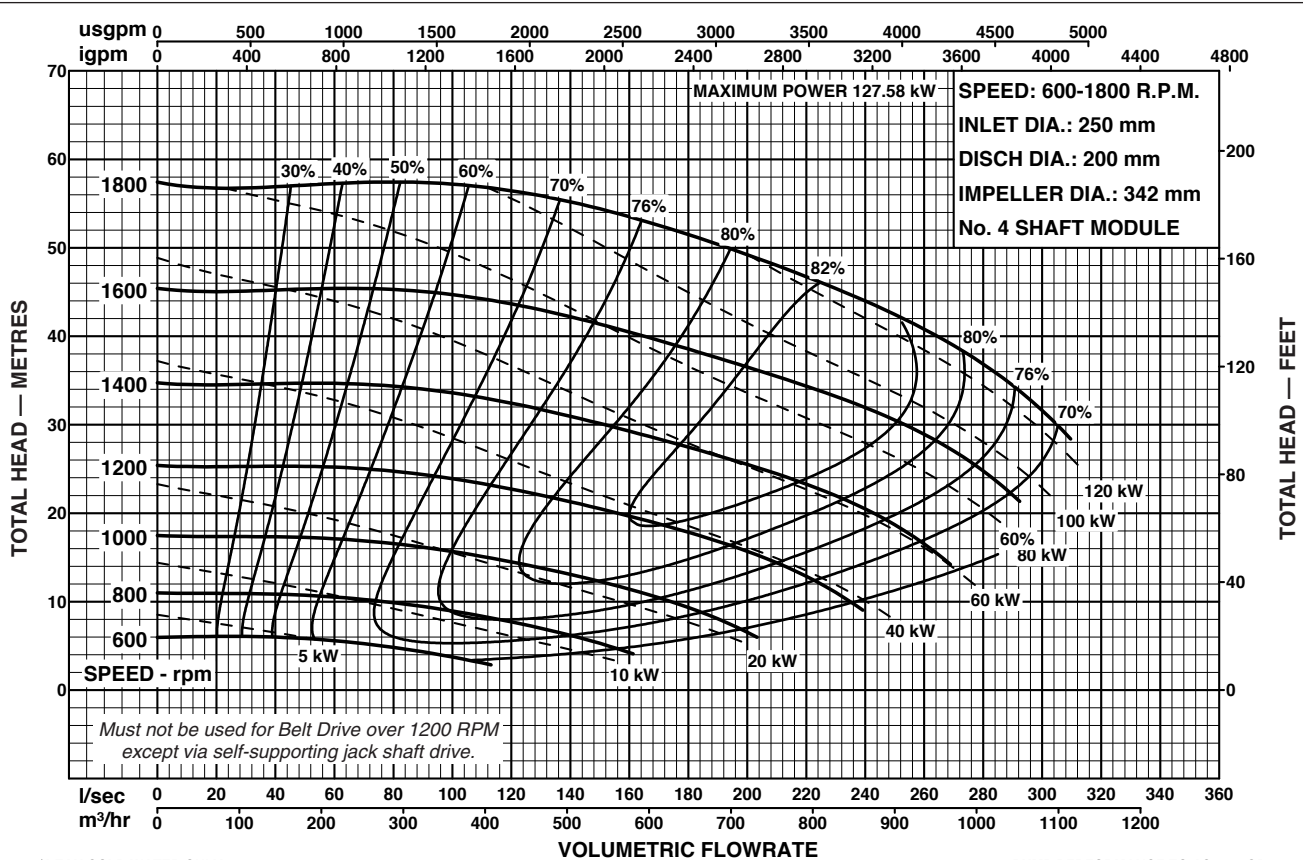
Performance to AS2417 Grade 2 for clean, cold water only.

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250 x 200-315 *SO* Sovereign



CENTRIFUGAL PUMP PERFORMANCE DATA



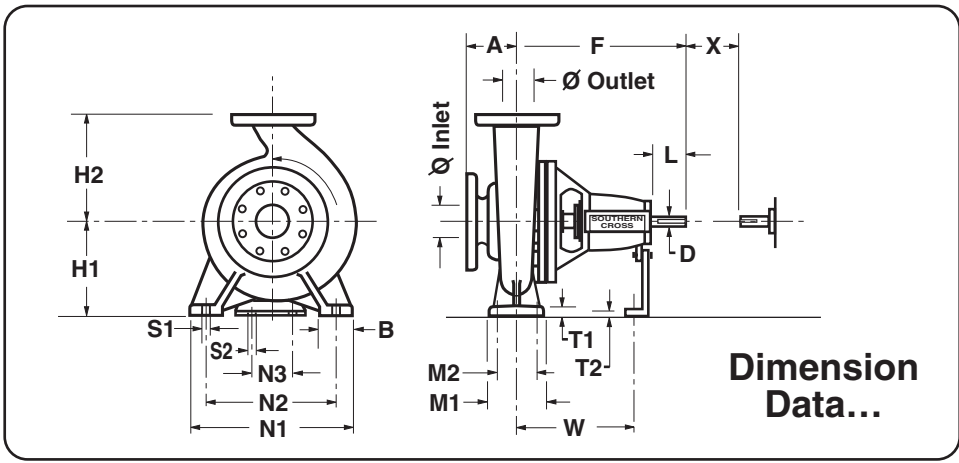
Performance to AS2417 Grade 2 for clean, cold water only.

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Performance to AS2417 Grade 2 for clean, cold water only.

May 2005

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Dimension Data...



PUMP SIZE			SHAFT No.	PUMP DIMENSIONS				MOUNTING DIMENSIONS									BOLT HOLES		SHAFT END		GAP *	PUMP MASS
INLET	OUTLET	IMP DIA		A	F	H1	H2	B	M1	M2	N1	N2	N3	T1	T2	W	S1	S2	D	L	X	kg
50	32	160	1	80	385	132	160	50	100	70	240	190	110	12	6	285	M12	M12	24	50	100	38
50	32	200	1	80	385	160	180	50	100	70	240	190	110	13	6	285	M12	M12	24	50	100	44
65	50	160	1	80	385	132	160	50	100	70	240	190	110	12	6	285	M12	M12	24	50	100	39
65	40	200	1	100	385	160	180	50	100	70	265	212	110	13	6	285	M12	M12	24	50	100	46
65	40	250	2	100	500	180	225	65	125	95	320	250	110	14	6	370	M12	M12	32	80	100	65
65	40	315	2	125	500	200	250	65	125	95	345	280	110	16	6	370	M12	M12	32	80	100	84
80	65	160	1	100	385	160	180	50	100	70	265	212	110	13	6	285	M12	M12	24	50	100	44
80	50	200	1	100	385	160	200	50	100	70	265	212	110	13	6	285	M12	M12	24	50	100	48
80	50	250	2	125	500	180	225	65	125	95	320	250	110	15	6	370	M12	M12	32	80	100	70
80	50	315	2	125	500	225	280	65	125	95	345	280	110	18	6	370	M12	M12	32	80	100	88
100	80	160	2	100	500	160	200	65	125	95	280	212	110	14	6	370	M12	M12	32	80	100	62
100	65	200	2	100	500	180	225	65	125	95	320	250	110	15	6	370	M12	M12	32	80	140	66
100	65	250	2	125	500	200	250	80	160	120	360	280	110	16	6	370	M16	M12	32	80	140	78
100	65	315	3	125	530	225	280	80	160	120	400	315	110	18	8	370	M16	M12	42	110	140	114
125	80	200	2	125	500	180	250	65	125	95	345	280	110	16	6	320	M12	M12	32	80	140	75
125	80	250	2	125	500	225	280	80	160	120	400	315	110	18	6	320	M16	M12	32	80	140	82
125	80	315	3	125	530	250	315	80	160	120	400	315	110	20	8	370	M16	M12	42	110	140	122
125	80	400	3	125	530	280	355	80	160	120	435	355	110	20	8	370	M16	M12	42	110	140	155
125	100	200	2	125	500	200	280	80	160	120	360	280	110	17	6	370	M16	M12	32	80	140	81
125	100	250	3	140	530	225	280	80	160	120	400	315	110	18	8	370	M16	M12	42	110	140	114
125	100	315	3	140	530	250	315	80	160	120	400	315	110	19	8	370	M16	M12	42	110	140	130
125	100	400	3	140	530	280	355	100	200	150	500	400	110	20	8	370	M20	M12	42	110	140	167
125	100	500	4	160	670	355	450	100	210	150	540	450	140	25	10	500	M20	M16	48	110	180	377
150	125	250	3	140	530	250	355	80	160	120	400	315	110	19	8	370	M16	M12	42	110	140	127
150	125	315	3	140	530	280	355	100	200	150	500	400	110	20	8	370	M20	M12	42	110	140	148
150	125	400	3	140	530	315	400	100	200	150	500	400	110	21	8	370	M20	M12	42	110	140	185
150	125	500	4	160	670	355	450	100	210	150	540	450	140	25	10	500	M20	M16	48	110	180	401
200	150	315	4	160	670	315	400	100	210	150	540	450	140	20	10	500	M20	M16	48	110	180	273
200	150	400	4	160	670	315	450	100	210	150	540	450	140	25	10	500	M20	M16	48	110	180	338
200	150	500	4	160	670	400	500	100	210	150	540	450	140	25	10	500	M20	M16	48	110	180	425
250	200	315	4	180	670	315	450	100	210	150	540	450	140	25	10	500	M20	M16	48	110	180	313

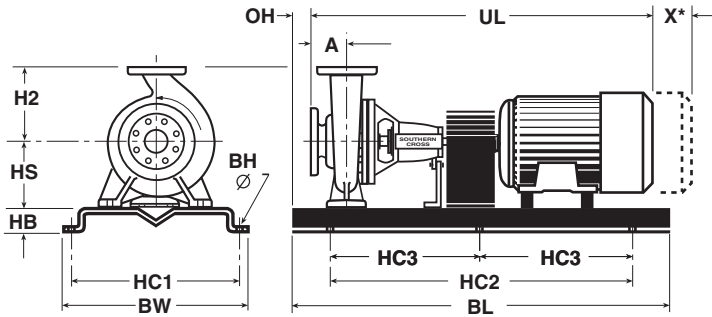
Standard Flange Drilling to AS2129—1982 Table 'E'

Other drilling options available on request.

Dimensions in millimetres

* Gap necessary for the withdrawal of bearing housing, backplate and impeller assembly towards the drive end.

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Dimension Data...

* Space necessary for withdrawal of bearing housing, backplate and impeller assembly without disturbing body and pipework.

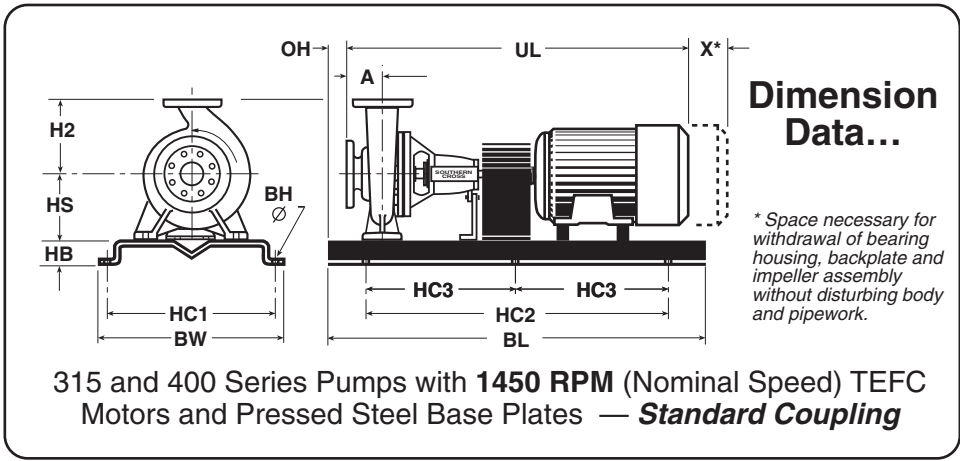
160, 200 and 250 Series Pumps with **1450 RPM** (Nominal Speed) TEFC Motors and Pressed Steel Base Plates — **Standard Coupling**



PUMP SIZE			SHAFT No.	MOTOR kW	FRAME SIZE	BASE KIT CODE	BASE CODE	DIMENSIONS															
INLET	OUTLET	IMP DIA						BL	BW	HC1	HC2	HC3	HB	BH	OH	A	UL	HS	H2	Gap X*	kg		
50	32	160	1	0.55	80	PB001	SEA613	1100	426	396	900	450	40	15	20	80	775	132	160	100	83		
				0.75	80	PB001	SEA613	1100	426	396							40				15	775	84
65	50	160	1	0.55	80	PB001	SEA613	1100	426	396	900	450	40	15	20	80	775	132	160	100	84		
				0.75	80	PB001	SEA613	1100	426	396							40				15	775	85
				1.1	90S	PB151	SEA613	1100	426	396							40				15	800	89
80	65	160	1	0.75	80	PB011	SEA613	1100	426	396	900	450	40	15	20	100	795	160	180	100	91		
				1.1	90S	PB013	SEA613	1100	426	396							40				15	820	94
				1.5	90L	PB013	SEA613	1100	426	396							40				15	845	99
100	80	160	2	1.1	90S	PB019	SEA613	1100	426	396	900	450	40	15	19.5	100	940	160	200	100	114		
				1.5	90L	PB019	SEA613	1100	426	396							40				15	965	119
				2.2	100L	PB021	SEA613	1100	426	396							40				15	1005	128
				3	100L	PB021	SEA613	1100	426	396							40				15	1005	132
50	32	200	1	0.75	80	PB153	SEA613	1100	426	396	900	450	40	15	20	80	775	160	180	100	91		
				1.1	90S	PB156	SEA613	1100	426	396							40				15	800	94
				1.5	90L	PB157	SEA613	1100	426	396							40				15	825	99
65	40	200	1	1.1	90S	PB013	SEA613	1100	426	396	900	450	40	15	20	100	820	160	180	100	96		
				1.5	90L	PB013	SEA613	1100	426	396							40				15	845	101
				2.2	100L	PB029	SEA613	1100	426	396							40				15	885	110
80	50	200	1	1.5	90L	PB013	SEA613	1100	426	396	900	450	40	15	20	100	845	160	200	100	103		
				2.2	100L	PB029	SEA613	1100	426	396							40				15	885	112
				3	100L	PB029	SEA613	1100	426	396							40				15	885	116
100	65	200	2	2.2	100L	PB034	SEA613	1100	426	396	900	450	40	15	19.5	100	1005	180	225	140	133		
				3	100L	PB034	SEA613	1100	426	396							40				15	1005	137
				4	112M	PB036	SEA613	1100	426	396							40				15	1020	142
				5.5	132S	PB038	SEA623	1200	520	470							74				15	1095	179
125	80	200	2	3	100L	PB034	SEA613	1100	426	396	900	450	40	15	20.5	125	1030	180	250	140	146		
				4	112M	PB036	SEA613	1100	426	396							40				15	1045	151
				5.5	132S	PB038	SEA623	1200	520	470							74				15	1120	188
				7.5	132M	PB038	SEA623	1200	520	470							74				15	1160	201
125	100	200	2	4	112M	PB049	SEA613	1100	426	396	900	450	40	15	20	125	1045	200	280	140	158		
				5.5	132S	PB051	SEA623	1200	520	470							74				15	1120	195
				7.5	132M	PB051	SEA623	1200	520	470							74				15	1160	208
65	40	250	2	1.5	90L	PB062	SEA613	1100	426	396	900	450	40	15	19.5	100	965	180	225	100	123		
				2.2	100L	PB034	SEA613	1100	426	396							40				15	1005	132
				3	100L	PB034	SEA613	1100	426	396							40				15	1005	136
80	50	250	2	3	100L	PB034	SEA613	1100	426	396	900	450	40	15	20.5	125	1030	180	225	100	141		
				4	112M	PB036	SEA613	1100	426	396							40				15	1045	146
				5.5	132S	PB038	SEA623	1200	520	470							74				15	1120	183
100	65	250	2	4	112M	PB049	SEA613	1100	426	396	900	450	40	15	20	125	1045	200	250	140	155		
				5.5	132S	PB051	SEA623	1200	520	470							74				15	1120	192
				7.5	132M	PB051	SEA623	1200	520	470							74				15	1160	205
125	80	250	2	5.5	132S	PB100B	SEA623	1200	520	470	900	450	74	15	20	125	1120	225	280	140	198		
				7.5	132M	PB100B	SEA623	1200	520	470							74				15	1160	211
				11	160M	PB221	SEA632	1200	520	470							74				15	1265	252
125	100	250	3	7.5	132M	PB182	SEA623	1200	520	470	900	450	74	15		1205				243			
				11	160M	PB075	SEA623	1200	520	470	900	450	74	15	20	140	1310	225	280	140	284		
				15	160L	PB077	SEA634	1500	622	572	1200	600	68	19			1368				331		
150	125	250	3	11	160M	PB086	SEA623	1200	520	470	900	450	74	15			1310				299		
				15	160L	PB088	SEA634	1500	622	572	1200	600	68	19	20	140	1368	250	355	140	347		
				18.5	180M	PB089	SEA634	1500	622	572	1200	600	68	19			1398				383		
				22	180L	PB190	SEA634	1500	622	572	1200	600	68	19			1438				395		

Pump Flanged Connections to A.S. 2129 — Table E

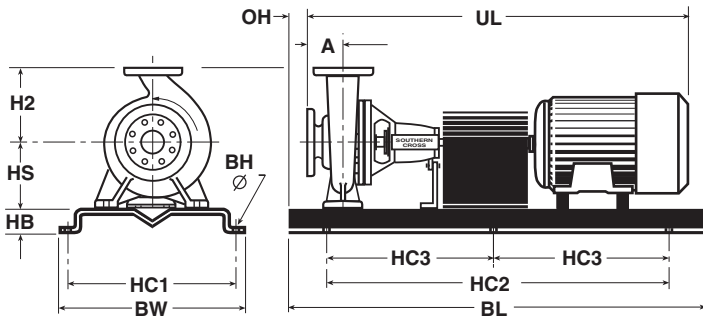
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PUMP SIZE			SHAFT No.	MOTOR kW	FRAME SIZE	BASE KIT CODE	BASE CODE	DIMENSIONS															
INLET	OUTLET	IMP DIA						BL	BW	HC1	HC2	HC3	HB	BH	OH	A	UL	HS	H2	Gap X*	kg		
65	40	315	2	3	100L	PB134	SEA613	1100	426	396	900	450	40	15		1030						157	
				4	112M	PB135	SEA613	1100	426	396	900	450	40	15	20.5	125	1045	200	250	100	161		
				5.5	132S	PB129	SEA623	1200	520	470	900	450	74	15			1120						198
80	50	315	2	4	112M	PB098	SEA613	1100	426	396	900	450	40	15		1045						164	
				5.5	132S	PB137	SEA623	1200	520	470	900	450	74	15	20.5	125	1120	225	280	100	204		
				7.5	132M	PB137	SEA623	1200	520	470	900	450	74	15			1160						217
100	65	315	3	7.5	132M	PB182	SEA623	1200	520	470	900	450	74	15		1190						243	
				11	160M	PB075	SEA623	1200	520	470	900	450	74	15	20	125	1295	225	280	140	284		
				15	160L	PB077	SEA634	1500	622	572	1200	600	68	19			1353						331
125	80	315	3	11	160M	PB086	SEA623	1200	520	470	900	450	74	15		1295						294	
				15	160L	PB088	SEA634	1500	622	572	1200	600	68	19	20	125	1353	250	315	140	342		
				18.5	180M	PB089	SEA634	1500	622	572	1200	600	68	19			1383						378
125	100	315	3	11	160M	PB086	SEA623	1200	520	470	900	450	74	15		1310						302	
				15	160L	PB088	SEA634	1500	622	572	1200	600	68	19	20	140	1368	250	315	140	350		
				18.5	180M	PB089	SEA634	1500	622	572	1200	600	68	19			1398						386
				22	180L	PB190	SEA634	1500	622	572	1200	600	68	19			1438						398
150	125	315	3	18.5	180M	PB112	SEA634	1500	622	572	1200	600	68	19		1398						406	
				22	180L	PB195	SEA634	1500	622	572	1200	600	68	19			1438						419
				30	200L	PB115	SEA634	1500	622	572	1200	600	68	19	20	140	1468	280	355	140	504		
				37	225M	PB123	SEA634	1500	622	572	1200	600	68	19			1518						519
				45	225M	PB203	SEA634	1500	622	572	1200	600	68	19			1543						
125	80	400	3	15	160L	PB119	SEA634	1500	622	572	1200	600	68	19		1353						376	
				18.5	180M	PB121	SEA634	1500	622	572	1200	600	68	19	20	125	1383	280	355	140	413		
				22	180L	PB202	SEA634	1500	622	572	1200	600	68	19			1423						426
				30	200L	PB122	SEA634	1500	622	572	1200	600	68	19			1453						511
125	100	400	3	22	180L	PB195	SEA634	1500	622	572	1200	600	68	19		1438						438	
				30	200L	PB115	SEA634	1500	622	572	1200	600	68	19	20	140	1468	280	355	140	523		
				37	225S	PB123	SEA634	1500	622	572	1200	600	68	19			1518						538
				45	225M	PB203	SEA634	1500	622	572	1200	600	68	19			1543						574
150	125	400	3	37	225S	PB125	SEA634	1500	622	572	1200	600	68	19		1518						559	
				45	225M	PB205	SEA634	1500	622	572	1200	600	68	19	20	140	1543	315	400	140	595		
				55	250M	PB207	SEA722	1600	731	681	1200	600	120	24			1623						805
				75	280S	PB209	SEA722	1600	731	681	1200	600	120	24			1698						940

Pump Flanged Connections to A.S. 2129 — Table E

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Dimension Data...

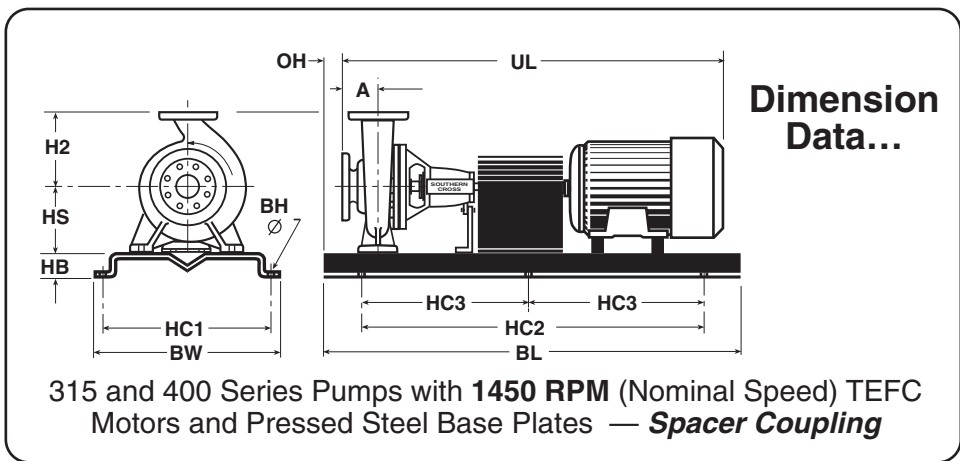
160, 200 and 250 Series Pumps with **1450 RPM** (Nominal Speed) TEFC Motors and Pressed Steel Base Plates — *Spacer Coupling*



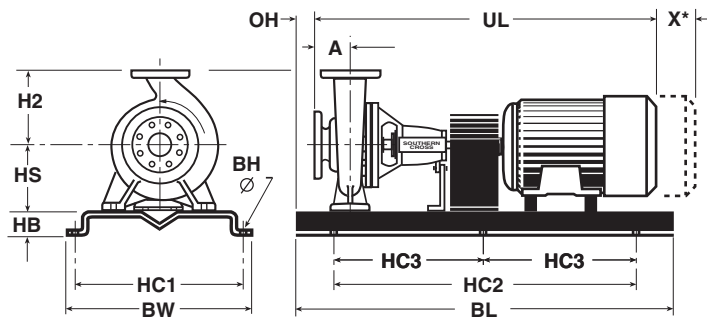
PUMP SIZE			SHAFT No.	MOTOR kW	FRAME SIZE	BASE KIT CODE	BASE CODE	DIMENSIONS												
INLET	OUTLET	IMP DIA						BL	BW	HC1	HC2	HC3	HB	BH	OH	A	UL	HS	H2	kg
50	32	160	1	0.55	80	PB002	SEA613	1100	426	396	900	450	40	15	20	80	860	132	160	86
				0.75	80	PB002	SEA613	1100	426	396	900	450	40	15		860			87	
65	50	160	1	0.55	80	PB002	SEA613	1100	426	396	900	450	40	15			860			87
				0.75	80	PB002	SEA613	1100	426	396	900	450	40	15	20	80	860	132	160	88
				1.1	90S	PB152	SEA613	1100	426	396	900	450	40	15		885			92	
80	65	160	1	0.75	80	PB012	SEA613	1100	426	396	900	450	40	15			880			94
				1.1	90S	PB014	SEA613	1100	426	396	900	450	40	15	20	100	905	160	180	98
				1.5	90L	PB014	SEA613	1100	426	396	900	450	40	15		930			103	
100	80	160	2	1.1	90S	PB020	SEA613	1100	426	396	900	450	40	15			1020			116
				1.5	90L	PB020	SEA613	1100	426	396	900	450	40	15	19.5	100	1045	160	200	121
				2.2	100L	PB022	SEA613	1100	426	396	900	450	40	15		1085			130	
				3	100L	PB022	SEA613	1100	426	396	900	450	40	15		1085			134	
50	32	200	1	0.75	80	PB154	SEA613	1100	426	396	900	450	40	15			860			94
				1.1	90S	PB159	SEA613	1100	426	396	900	450	40	15	20	80	885	160	180	98
				1.5	90L	PB160	SEA613	1100	426	396	900	450	40	15		910			103	
65	40	200	1	1.1	90S	PB014	SEA613	1100	426	396	900	450	40	15			905			100
				1.5	90L	PB014	SEA613	1100	426	396	900	450	40	15	20	100	930	160	180	105
				2.2	100L	PB030	SEA613	1100	426	396	900	450	40	15		970			114	
80	50	200	1	1.5	90L	PB014	SEA613	1100	426	396	900	450	40	15			930			107
				2.2	100L	PB030	SEA613	1100	426	396	900	450	40	15	20	100	970	160	200	116
				3	100L	PB030	SEA613	1100	426	396	900	450	40	15		970			120	
100	65	200	2	2.2	100L	PB035	SEA613	1100	426	396	900	450	40	15			1125			135
				3	100L	PB035	SEA613	1100	426	396	900	450	40	15	19.5	100	1125	180	225	139
				4	112M	PB037	SEA613	1100	426	396	900	450	40	15		1140			141	
				5.5	132S	PB039	SEA623	1200	520	470	900	450	74	15		1210			179	
125	80	200	2	3	100L	PB035	SEA613	1100	426	396	900	450	40	15			1150			148
				4	112M	PB037	SEA613	1100	426	396	900	450	40	15	20.5	125	1165	180	250	150
				5.5	132S	PB039	SEA623	1200	520	470	900	450	74	15		1235			188	
				7.5	132M	PB039	SEA623	1200	520	470	900	450	74	15		1275			201	
125	100	200	2	4	112M	PB050	SEA613	1100	426	396	900	450	40	15			1165			160
				5.5	132S	PB052	SEA623	1200	520	470	900	450	74	15	20	125	1235	200	280	196
				7.5	132M	PB052	SEA623	1200	520	470	900	450	74	15		1275			209	
65	40	250	2	1.5	90L	PB063	SEA613	1100	426	396	900	450	40	15			1045			125
				2.2	100L	PB035	SEA613	1100	426	396	900	450	40	15	19.5	100	1085	180	225	134
				3	100L	PB035	SEA613	1100	426	396	900	450	40	15		1085			138	
80	50	250	2	3	100L	PB035	SEA613	1100	426	396	900	450	40	15			1110			143
				4	112M	PB037	SEA613	1100	426	396	900	450	40	15	20.5	125	1125	180	225	145
				5.5	132S	PB039	SEA623	1200	520	470	900	450	74	15		1195			183	
100	65	250	2	4	112M	PB050	SEA613	1100	426	396	900	450	40	15			1165			157
				5.5	132S	PB052	SEA623	1200	520	470	900	450	74	15	20	125	1235	200	250	193
				7.5	132M	PB052	SEA623	1200	520	470	900	450	74	15		1275			206	
125	80	250	2	5.5	132S	PB100S	SEA623	1200	520	470	900	450	74	15			1235			199
				7.5	132M	PB100S	SEA623	1200	520	470	900	450	74	15	20	125	1275	225	280	212
				11	160M	PB222	SEA634	1500	622	572	1200	600	68	19		1380			275	
125	100	250	3	7.5	132M	PB183	SEA623	1200	520	470	900	450	74	15			1320			244
				11	160M	PB076	SEA634	1500	622	572	1200	600	68	19	20	140	1425	225	280	307
				15	160L	PB184	SEA634	1500	622	572	1200	600	68	19		1480			330	
150	125	250	3	11	160M	PB087	SEA634	1500	622	572	1200	600	68	19			1425			323
				15	160L	PB189	SEA634	1500	622	572	1200	600	68	19	20	140	1480	250	355	346
				18.5	180M	PB090	SEA634	1500	622	572	1200	600	68	19		1510			383	
				22	180L	PB091	SEA634	1500	622	572	1200	600	68	19		1550			393	

Pump Flanged Connections to A.S. 2129 — Table E

May 2005



PUMP SIZE			SHAFT No.	MOTOR kW	FRAME SIZE	BASE KIT CODE	BASE CODE	DIMENSIONS												
INLET	OUTLET	IMP DIA						BL	BW	HC1	HC2	HC3	HB	BH	OH	A	UL	HS	H2	kg
65	40	315	2	3	100L	PB127	SEA613	1100	426	396	900	450	40	15		1110				159
				4	112M	PB128	SEA613	1100	426	396	900	450	40	15	20.5	125	1125	200	250	163
				5.5	132S	PB130	SEA623	1200	520	470	900	450	74	15		1195				199
80	50	315	2	4	112M	PB099	SEA613	1100	426	396	900	450	40	15		1125				166
				5.5	132S	PB100	SEA623	1200	520	470	900	450	74	15	20.5	125	1195	225	280	205
				7.5	132M	PB100	SEA623	1200	520	470	900	450	74	15		1235				218
100	65	315	3	7.5	132M	PB183	SEA623	1200	520	470	900	450	74	15		1305				244
				11	160M	PB076	SEA634	1500	622	572	1200	600	68	19	20	125	1410	225	280	307
				15	160L	PB184	SEA634	1500	622	572	1200	600	68	19		1465				330
125	80	315	3	11	160M	PB087	SEA634	1500	622	572	1200	600	68	19		1410				318
				15	160L	PB189	SEA634	1500	622	572	1200	600	68	19	20	125	1465	250	315	341
				18.5	180M	PB090	SEA634	1500	622	572	1200	600	68	19		1495				378
125	100	315	3	11	160M	PB087	SEA634	1500	622	572	1200	600	68	19		1425				326
				15	160L	PB189	SEA634	1500	622	572	1200	600	68	19	20	140	1480	250	315	349
				18.5	180M	PB090	SEA634	1500	622	572	1200	600	68	19		1510				386
				22	180L	PB091	SEA634	1500	622	572	1200	600	68	19		1550				393
150	125	315	3	18.5	180M	PB113	SEA634	1500	622	572	1200	600	68	19		1510				406
				22	180L	PB114	SEA634	1500	622	572	1200	600	68	19		1550				417
				30	200L	PB116	SEA634	1500	622	572	1200	600	68	19	20	140	1580	280	355	502
				37	225S	PB124	SEA634	1500	622	572	1200	600	68	19		1630				519
				45	225M	PB204	SEA634	1500	622	572	1200	600	68	19		1655				555
125	80	400	3	15	160L	PB120	SEA634	1500	622	572	1200	600	68	19		1465				376
				18.5	180M	PB140	SEA634	1500	622	572	1200	600	68	19	20	125	1495	280	355	413
				22	180L	PB141	SEA634	1500	622	572	1200	600	68	19		1535				424
				30	200L	PB142	SEA634	1500	622	572	1200	600	68	19		1565				509
125	100	400	3	22	180L	PB114	SEA634	1500	622	572	1200	600	68	19		1550				436
				30	200L	PB116	SEA634	1500	622	572	1200	600	68	19	20	140	1580	280	355	521
				37	225S	PB124	SEA634	1500	622	572	1200	600	68	19		1630				538
				45	225M	PB204	SEA634	1500	622	572	1200	600	68	19		1655				574
150	125	400	3	37	225S	PB126	SEA634	1500	622	572	1200	600	68	19		1630				560
				45	225M	PB206	SEA634	1500	622	572	1200	600	68	19	20	140	1655	315	400	596
				55	250	PB208	SEA722	1600	731	681	1200	600	120	24		1720				804
				75	280	PB210	SEA723	1800	775	725	1400	700	120	24		1795				962



Dimension Data...

* Space necessary for withdrawal of bearing housing, backplate and impeller assembly without disturbing body and pipework.

160, 200 and 250 Series Pumps with 2900 RPM (Nominal Speed) TEFC Motors and Pressed Steel Base Plates — **Standard Coupling**

Southern Cross

ISO
Sovereign

CENTRIFUGAL PUMPS

PUMP SIZE			SHAFT No.	MOTOR kW	FRAME SIZE	BASE KIT CODE	BASE CODE	DIMENSIONS														
INLET	OUTLET	IMP DIA						BL	BW	HC1	HC2	HC3	HB	BH	OH	A	UL	HS	H2	Gap X*	kg	
50	32 SEA	160	1	2.2	90	PB003	SEA613	1100	426	396	900	450	40	15	20	80	825	132	160	100	91	
				3	100L	PB005	SEA613	1100	426	396	900	450	40	15			865	132				99
				4	112M	PB007	SEA613	1100	426	396	900	450	40	15			880	132				112
				5.5	132S	PB009	SEA623	1200	520	470	900	450	74	15			960	132				144
65	50 SEB	160	1	4	112M	PB007	SEA613	1100	426	396	900	450	40	15	20	80	880	132	160	100	113	
				5.5	132S	PB009	SEA623	1200	520	470	900	450	74	15			960	132			145	
				7.5	132S	PB009	SEA623	1200	520	470	900	450	74	15			960	132			151	
80	65 SEC	160	1	5.5	132S	PB015	SEA623	1200	520	470	900	450	74	15	20	100	980	160	180	100	151	
				7.5	132S	PB015	SEA623	1200	520	470	900	450	74	15			980	160			157	
				11	160M	PB017	SEA623	1200	520	470	900	450	74	15			1125	160			203	
				15	160M	PB024	SEA632	1200	572	522	900	450	93	19			1125	160			223	
100	80 SED	160	2	11	160M	PB163	SEA623	1200	520	470	900	450	74	15	19.5	100	1240	160	200	100	221	
				15	160M	PB168	SEA632	1200	572	522	900	450	93	19			1240	160			241	
				18.5	160L	PB168	SEA632	1200	572	522	900	450	93	19			1295	160			263	
50	32 SFA	200	1	5.5	132S	PB161	SEA623	1200	520	470	900	450	74	15	20	80	960	160	180	100	151	
				7.5	132S	PB161	SEA623	1200	520	470	900	450	74	15			960	160			157	
				11	160M	PB164	SEA623	1200	520	470	900	450	74	15			1105	160			203	
65	40 SFB	200	1	7.5	132S	PB015	SEA623	1200	520	470	900	450	74	15	20	100	980	160	180	100	159	
				11	160M	PB017	SEA623	1200	520	470	900	450	74	15			1125	160			205	
				15	160M	PB024	SEA632	1200	572	522	900	450	93	19			1125	160			225	
				11	160M	PB017	SEA623	1200	520	470	900	450	74	15			1125	160			207	
80	50 SFC	200	1	15	160M	PB024	SEA632	1200	572	522	900	450	93	19	20	100	1125	160	200	100	227	
				18.5	160L	PB024	SEA632	1200	572	522	900	450	93	19			1180	160			249	
				22	180M	PB032	SEA632	1200	572	522	900	450	93	19			1213	180			289	
				18.5	160L	PB040	SEA632	1200	572	522	900	450	93	19			1295	180			269	
100	65 SFD	200	2	22	180M	PB043	SEA632	1200	572	522	900	450	93	19	19.5	100	1325	180	225	140	304	
				30	200L	PB045	SEA634	1500	622	572	1200	600	68	19			1398	200			382	
				37	200L	PB045	SEA634	1500	622	572	1200	600	68	19			1398	200			397	
				45	225M	PB143	SEA634	1500	622	572	1200	600	68	19			1398	200			397	
125	80 SFE	200	2	22	180M	PB043	SEA632	1200	572	522	900	450	93	19	20.5	125	1353	180	250	140	313	
				30	200L	PB045	SEA634	1500	622	572	1200	600	68	19			1423	200			391	
				37	200L	PB045	SEA634	1500	622	572	1200	600	68	19			1423	200			406	
				45	225M	PB143	SEA634	1500	622	572	1200	600	68	19			1468	225			461	
125	100 SFF	200	2	30	200L	PB056	SEA634	1500	622	572	1200	600	68	19	20	125	1423	200	280	140	394	
				37	200L	PB056	SEA634	1500	622	572	1200	600	68	19			1423	200			409	
				45	225M	PB058	SEA634	1500	622	572	1200	600	68	19			1468	225			467	
				55	250M	PB179	SEA634	1500	622	572	1200	600	68	19			1563	250			570	
65	40 SGB	250	2	75	280S	PB060	SEA642	1500	576	626	1100	550	120	24	19.5	100	1638	280	225	100	752	
				11	160M	PB040	SEA632	1200	572	522	900	450	93	19			1240	180			238	
				15	160M	PB040	SEA632	1200	572	522	900	450	93	19			1240	180			246	
				18.5	160L	PB040	SEA632	1200	572	522	900	450	93	19			1295	180			268	
80	50 SGC	250	2	22	180M	PB043	SEA632	1200	572	522	900	450	93	19	20.5	125	1328	180	225	100	303	
				30	200L	PB045	SEA634	1500	622	572	1200	600	68	19			1398	200			381	
				37	200L	PB045	SEA634	1500	622	572	1200	600	68	19			1423	200			401	
				45	225M	PB143	SEA634	1500	622	572	1200	600	68	19			1468	225			456	
100	65 SGD	250	2	30	200L	PB056	SEA634	1500	622	572	1200	600	68	19	20	125	1423	200	250	140	391	
				37	200L	PB056	SEA634	1500	622	572	1200	600	68	19			1423	200			406	
				45	225M	PB058	SEA634	1500	622	572	1200	600	68	19			1468	225			464	
				55	250M	PB179	SEA634	1500	622	572	1200	600	68	19			1563	250			567	
125	80 SGE	250	2	75	280S	PB060	SEA642	1500	576	626	1100	550	120	24	19.5	100	1638	280	225	100	749	
				45	225M	PB105B	SEA634	1500	622	572	1200	600	68	19			1423	200			391	
				55	250M	PB106B	SEA634	1500	622	572	1200	600	68	19			1468	225			464	
				75	280S	PB191B	SEA642	1500	676	626	1100	550	120	24			1638	280			746	
125	100 SGF	250	3	90	280M	PB191B	SEA642	1500	676	626	1100	550	120	24	20	140	1688	280	280	140	822	
				55	250M	PB080	SEA642	1500	676	626	1100	550	120	24			1608	250			632	
				75	280S	PB082	SEA643	1600	731	681	1200	600	120	24			1683	280			790	
				90	280M	PB082	SEA643	1600	731	681	1200	600	120	24			1733	280			866	
				110	315S	PB187	SEA643	1600	731	681	1200	600	120	24							1232	

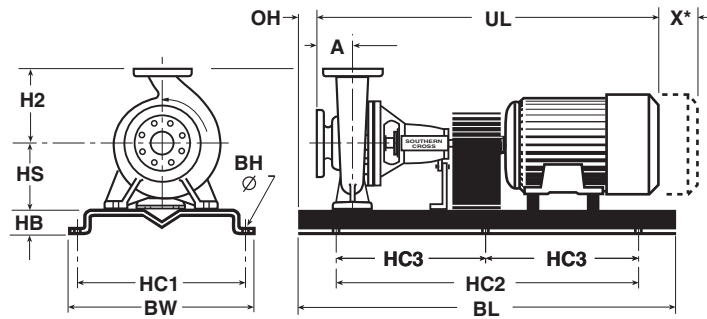
Pump Flanged Connections to A.S. 2129 — Table E

MAY 2005

Southern Cross

ISO
SOVEREIGN

CENTRIFUGAL PUMPS

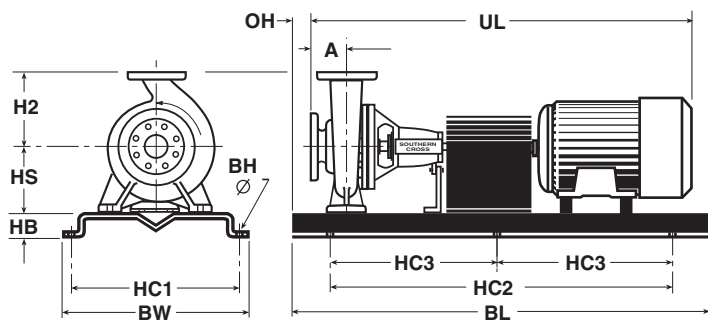


Dimension Data...

* Space necessary for withdrawal of bearing housing, backplate and impeller assembly without disturbing body and pipework.

315 Series Pumps with **2900 RPM** (Nominal Speed) TEFC Motors and Pressed Steel Base Plates — **Standard Coupling**

PUMP SIZE			SHAFT No.	MOTOR kW	FRAME SIZE	BASE KIT CODE	BASE CODE	DIMENSIONS														
INLET	OUTLET	IMP DIA						BL	BW	HC1	HC2	HC3	HB	BH	OH	A	UL	HS	H2	Gap X*	kg	
65	40	315	2	22	180M	PB136	SEA632	1200	572	522	900	450	93	19			1353	200				324
					200L	PB132	SEA634	1500	622	572	1200	600	68	19	20.5	125	1423	200	250	100	397	
					200L	PB132	SEA634	1500	622	572	1200	600	68	19			1423	200			412	
					225M	PB094	SEA634	1500	622	572	1200	600	68	19			1468	225			470	
80	50	315	2	30	200L	PB103	SEA634	1500	622	572	1200	600	68	19			1423	225				403
				37	200L	PB103	SEA634	1500	622	572	1200	600	68	19			1423	225				418
				45	225M	PB105	SEA634	1500	622	572	1200	600	68	19	20.5	125	1468	225	280	100	470	
				55	250M	PB106	SEA634	1500	622	572	1200	600	68	19			1563	250			573	
				75	280S	PB191	SEA642	1500	676	626	1100	550	120	24			1638	280			755	
100	65	315	3	55	250M	PB080	SEA642	1500	676	626	1100	550	120	24			1593	250				632
				75	280S	PB082	SEA643	1600	731	681	1200	600	120	24	20	125	1668	280	280	140	790	
				90	280M	PB082	SEA643	1600	731	681	1200	600	120	24			1718	280			866	
				110	315S	PB187	SEA643	1600	731	681	1200	600	120	24			1876	315			1232	
125	80	315	3	75	280S	PB108	SEA643	1600	731	681	1200	600	120	24			1668	280				796
				90	280M	PB193	SEA643	1600	731	681	1200	600	120	24	20	125	1718	280	315	140	872	
				110	315S	PB193	SEA643	1600	731	681	1200	600	120	24			1876	315			1238	
				132	315M	PB193	SEA643	1600	731	681	1200	600	120	24			1936	315			1338	
125	100	315	3	90	280M	PB108	SEA643	1600	731	681	1200	600	120	24			1733	280				880
				110	315S	PB193	SEA643	1600	731	681	1200	600	120	24	20	140	1891	315	315	140	1246	
				132	315M	PB193	SEA643	1600	731	681	1200	600	120	24			1951	315			1346	



Dimension Data...

160, 200 and 250 Series Pumps with **2900 RPM** (Nominal Speed) TEFC Motors and Pressed Steel Base Plates — **Spacer Coupling**

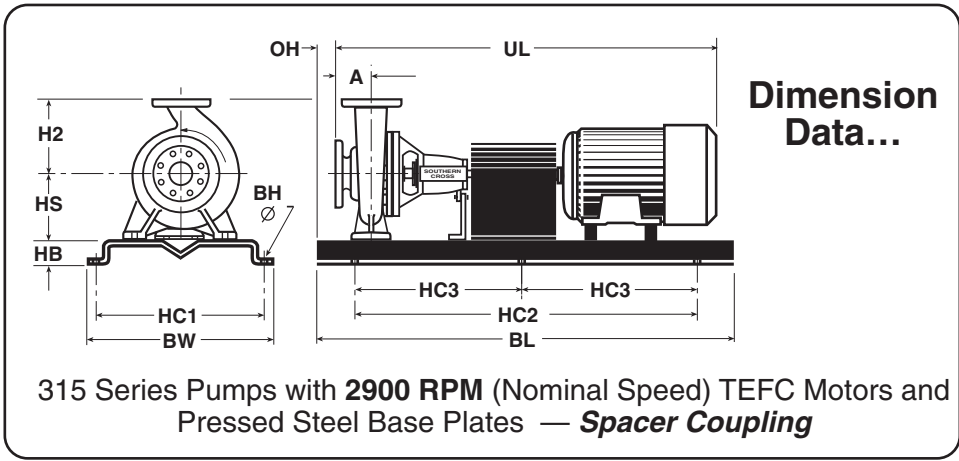


PUMP SIZE			SHAFT No.	MOTOR kW	FRAME SIZE	BASE KIT CODE	BASE CODE	DIMENSIONS												
INLET	OUTLET	IMP DIA						BL	BW	HC1	HC2	HC3	HB	BH	OH	A	UL	HS	H2	kg
50	32	160	1	2.2	90	PB004	SEA613	1100	426	396	900	450	40	15	20	80	910	132	160	94
				3	100L	PB006	SEA613	1100	426	396	900	450	40	15			950	132		102
				4	112M	PB008	SEA613	1100	426	396	900	450	40	15			965	132		115
				5.5	132S	PB010	SEA623	1200	520	470	900	450	74	15			1035	132		144
65	50	160	1	4	112M	PB008	SEA613	1100	426	396	900	450	40	15	20	80	965	132	160	116
				5.5	132S	PB010	SEA623	1200	520	470	900	450	74	15			1035	132		145
				7.5	132S	PB010	SEA623	1200	520	470	900	450	74	15			1035	132		151
80	65	160	1	5.5	132S	PB016	SEA623	1200	520	470	900	450	74	15	20	100	1055	160	180	152
				7.5	132S	PB016	SEA623	1200	520	470	900	450	74	15			1055	160		158
				11	160M	PB018	SEA623	1200	520	470	900	450	74	15			1200	160		203
				15	160M	PB025	SEA632	1200	572	522	900	450	93	19			1200	160		224
100	80	160	2	11	160M	PB023	SEA623	1200	520	470	900	450	74	15	19.5	100	1315	160	200	221
				15	160M	PB026	SEA634	1500	622	572	1200	600	68	19			1315	160		252
				18.5	160L	PB026	SEA634	1500	622	572	1200	600	68	19			1370	160		274
50	32	200	1	5.5	132S	PB162	SEA623	1200	520	470	900	450	74	15	20	80	1035	160	180	152
				7.5	132S	PB162	SEA623	1200	520	470	900	450	74	15			1035	160		158
				11	160M	PB165	SEA623	1200	520	470	900	450	74	15			1180	160		203
65	40	200	1	7.5	132S	PB016	SEA623	1200	520	470	900	450	74	15	20	100	1055	160	180	160
				11	160M	PB018	SEA623	1200	520	470	900	450	74	15			1200	160		205
				15	160M	PB025	SEA632	1200	572	522	900	450	93	19			1200	160		226
80	50	200	1	11	160M	PB018	SEA623	1200	520	470	900	450	74	15	20	100	1200	160	200	207
				15	160M	PB025	SEA632	1200	572	522	900	450	93	19			1200	160		228
				18.5	160L	PB025	SEA632	1200	572	522	900	450	93	19			1255	160		250
				22	180M	PB033	SEA632	1200	572	522	900	450	93	19			1285	180		288
100	65	200	2	18.5	160L	PB042	SEA634	1500	622	572	1200	600	68	19	19.5	100	1410	180	225	280
				22	180M	PB044	SEA634	1500	622	572	1200	600	68	19			1440	180		313
				30	200L	PB046	SEA634	1500	622	572	1200	600	68	19			1510	200		379
				37	200L	PB046	SEA634	1500	622	572	1200	600	68	19			1510	200		394
125	80	200	2	22	180M	PB044	SEA634	1500	622	572	1200	600	68	19	20.5	125	1465	180	250	322
				30	200L	PB046	SEA634	1500	622	572	1200	600	68	19			1535	200		388
				37	200L	PB046	SEA634	1500	622	572	1200	600	68	19			1535	200		403
				45	225M	PB144	SEA634	1500	622	572	1200	600	68	19			1580	225		459
125	100	200	2	30	200L	PB057	SEA634	1500	622	572	1200	600	68	19	20	125	1535	200	280	391
				37	200L	PB057	SEA634	1500	622	572	1200	600	68	19			1535	200		406
				45	225M	PB059	SEA634	1500	622	572	1200	600	68	19			1580	225		464
				55	250M	PB180	SEA642	1500	576	626	1100	550	120	24			1675	250		601
65	40	250	2	11	160M	PB042	SEA634	1500	622	572	1200	600	68	19	19.5	100	1315	180	225	249
				15	160M	PB042	SEA634	1500	622	572	1200	600	68	19			1315	180		257
				18.5	160L	PB042	SEA634	1500	622	572	1200	600	68	19			1370	180		279
				22	180M	PB044	SEA634	1500	622	572	1200	600	68	19			1400	180		312
80	50	250	2	30	200L	PB046	SEA634	1500	622	572	1200	600	68	19	20.5	125	1470	200	225	378
				22	180M	PB044	SEA634	1500	622	572	1200	600	68	19			1425	180		317
				30	200L	PB046	SEA634	1500	622	572	1200	600	68	19			1495	200		383
				37	200L	PB046	SEA634	1500	622	572	1200	600	68	19			1495	200		398
100	65	250	2	45	225M	PB144	SEA634	1500	622	572	1200	600	68	19	20	125	1540	225	250	454
				30	200L	PB057	SEA634	1500	622	572	1200	600	68	19			1535	200		388
				37	200L	PB057	SEA634	1500	622	572	1200	600	68	19			1535	200		403
				45	225M	PB059	SEA634	1500	622	572	1200	600	68	19			1580	225		461
125	80	250	2	55	250M	PB180	SEA642	1500	576	626	1100	550	120	24	20	125	1675	250	280	598
				75	280S	PB061	SEA643	1600	731	681	1200	600	120	24			1750	280		761
				45	225M	PB105S	SEA634	1500	622	572	1200	600	68	19			1580	225		462
				55	250M	PB106S	SEA642	1500	576	626	1100	550	120	24			1675	250		599
125	80	250	2	75	280S	PB191S	SEA643	1600	731	681	1200	600	120	24	20	125	1750	280	280	758
				90	280M	PB191S	SEA643	1600	731	681	1200	600	120	24			1800	280		834

Pump Flanged Connections to A.S. 2129 — Table E

May 2005

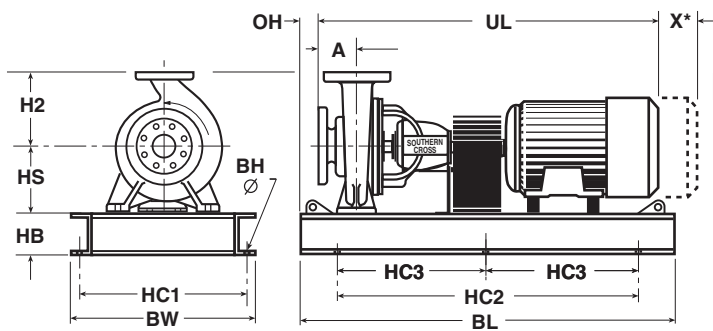
A division of **tyco** Flow Control Pacific Pty Ltd A.B.N. 83 000 922 690



PUMP SIZE			SHAFT No.	MOTOR kW	FRAME SIZE	BASE KIT CODE	BASE CODE	DIMENSIONS												
INLET	OUTLET	IMP DIA						BL	BW	HC1	HC2	HC3	HB	BH	OH	A	UL	HS	H2	kg
65	40	315	2	22	180M	PB131	SEA634	1500	622	572	1200	600	68	19		1425	200		334	
				30	200L	PB133	SEA634	1500	622	572	1200	600	68	19	20.5	125	1495	200	250	394
				37	200L	PB133	SEA634	1500	622	572	1200	600	68	19			1495	200		409
				45	225M	PB095	SEA634	1500	622	572	1200	600	68	19			1540	225		466
80	50	315	2	30	200L	PB104	SEA634	1500	622	572	1200	600	68	19		1495	225		401	
				37	200L	PB104	SEA634	1500	622	572	1200	600	68	19			1495	225		416
				45	225M	PB139	SEA634	1500	622	572	1200	600	68	19	20.5	125	1540	225	280	467
				55	250M	PB107	SEA642	1500	676	626	1100	550	120	24			1635	250		603
				75	280S	PB192	SEA643	1600	731	681	1200	600	120	24			1710	280		767
100	65	315	3	55	250M	PB081	SEA643	1600	731	681	1200	600	120	24		1705	250		643	
				75	280S	PB083	SEA723	1800	775	725	1400	700	120	24	20	125	1780	280	280	871
				90	280M	PB083	SEA723	1800	775	725	1400	700	120	24			1830	280		947
				110	315S	PB188	SEA723	1800	775	725	1400	700	120	24			1973	315		1312
125	80	315	3	75	280S	PB109	SEA723	1800	775	725	1400	700	120	24		1780	280		875	
				90	280M	PB109	SEA723	1800	775	725	1400	700	120	24	20	125	1830	280	315	951
				110	315S	PB194	SEA723	1800	775	725	1400	700	120	24			1973	315		1316
				132	315M	PB194	SEA723	1800	775	725	1400	700	120	24			2033	315		1416
125	100	315	3	90	280M	PB109	SEA723	1800	775	725	1400	700	120	24		1845	280		959	
				110	315S	PB194	SEA723	1800	775	725	1400	700	120	24	20	140	1988	315	315	1324
				132	315M	PB194	SEA723	1800	775	725	1400	700	120	24			2048	315		1424

Pump Flanged Connections to A.S. 2129 — Table E

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Dimension Data...

* Space necessary for withdrawal of bearing housing, backplate and impeller assembly without disturbing body and pipework.

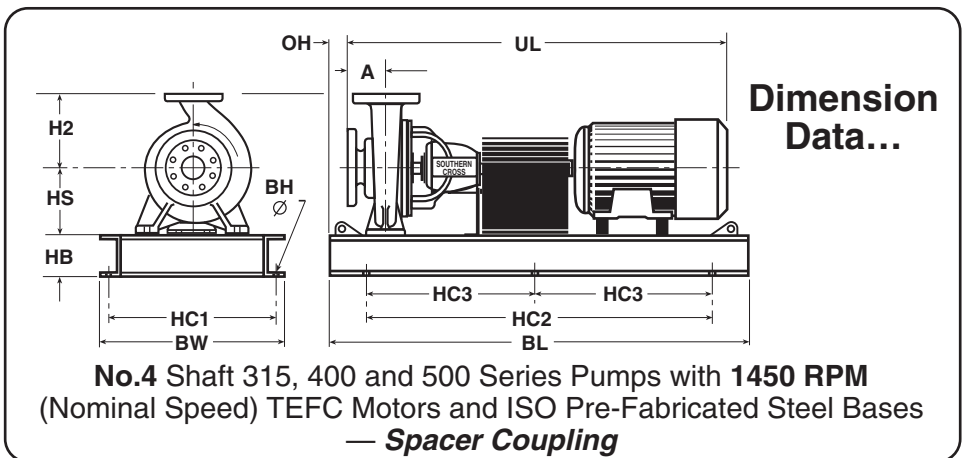
No.4 Shaft 315, 400 and 500 Series Pumps with 1450 RPM (Nominal Speed) TEFC Motors and ISO Pre-Fabricated Steel Bases — Standard Coupling

Southern Cross

ISO Sovereign

CENTRIFUGAL PUMPS

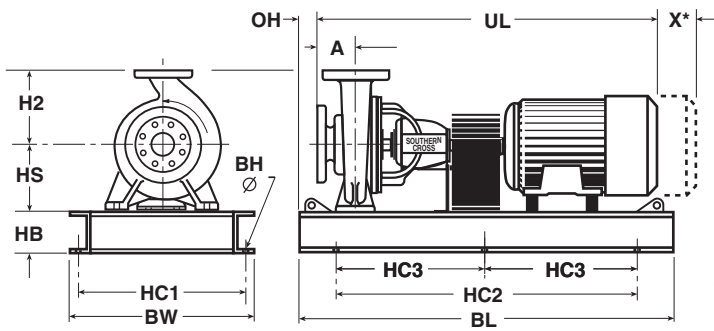
PUMP SIZE			SHAFT No.	MOTOR kW	FRAME SIZE	BASE KIT CODE	BASE CODE	DIMENSIONS														
INLET	OUTLET	IMP DIA						BL	BW	HC1	HC2	HC3	HB	BH	OH	A	UL	HS	H2	Gap X*	kg	
200	150	315	4	30	200L	PB337	SHH632N	1800	750	670	1200	-	150				1628	315				700
				37	225S	PB339	SHH633N	1800	750	670	1200	-	150	24	-50	160	1678	315	400	180	718	
				45	225M	PB341	SHH634N	1800	750	670	1200	-	150				1718	315				760
				55	250M	PB343	SHH635N	1800	750	670	1200	-	150				1783	315				867
250	200	315	4	37	225S	PB381	SHH633N	1800	750	670	1200	-	150				1698	315				758
				45	225M	PB383	SHH634N	1800	750	670	1200	-	150	24	-70	180	1738	315	450	180	800	
				55	250M	PB385	SHH635N	1800	750	670	1200	-	150				1803	315				907
				75	280S	PB387	SHH641N	1800	750	670	1200	-	150				1878	315				1038
200	150	400	4	55	250M	PB351	SHH635N	1800	750	670	1200	-	150				1783	315				932
				75	280S	PB353	SHH641N	1800	750	670	1200	-	150	24	-50	160	1858	315	450	180	1063	
				90	280M	PB355	SHH642N	1800	750	670	1200	-	150				1908	315				1168
				110	315S	PB357	SHH642N	1800	750	670	1200	-	150				2089	315				1507
125	100	500	4	45	225M	PB307	SHH614N	1800	750	670	1200	-	170				1718	355				869
				55	250M	PB309	SHH617N	1800	750	670	1200	-	150	24	-50	160	1783	355	450	180	971	
				75	280S	PB311	SHH618N	1800	750	670	1200	-	150				1858	355				1110
				90	280M	PB313	SHH619N	1800	750	670	1200	-	150				1908	355				1215
150	125	500	4	55	250M	PB321	SHH617N	1800	750	670	1200	-	150				1783					995
				75	280S	PB323	SHH618N	1800	750	670	1200	-	150				1858					1134
				90	280M	PB325	SHH619N	1800	750	670	1200	-	150	24	-50	160	1908	355	450	180	1239	
				110	315S	PB327	SHH619N	1800	750	670	1200	-	150				2089					1581
				132	315M	PB329	SHH628N	2100	850	775	1420	-	150				2149					1696
200	150	500	4	75	280S	PB365	SHH647N	1800	750	670	1200	-	180				1858					1157
				90	280M	PB367	SHH648N	1800	750	670	1200	-	180				1908					1262
				110	315S	PB369	SHH651N	1800	750	670	1200	-	180	24	-50	160	2089	400	500	180	1603	
				132	315M	PB371	SHH652N	2100	850	775	1420	-	150				2149					1721
				160	315L	PB373	SHH653N	2100	850	775	1420	-	150				2199					1781
200	315L	PB373	SHH653N	2100	850	775	1420	-	150				2199						1821			



PUMP SIZE			SHAFT No.	MOTOR kW	FRAME SIZE	BASE KIT CODE	BASE CODE	DIMENSIONS												
INLET	OUTLET	IMP DIA						BL	BW	HC1	HC2	HC3	HB	BH	OH	A	UL	HS	H2	kg
200	150	315	4	30	200L	PB338	SHH632	1800	750	670	1200	-	150				1780			744
				37	225S	PB340	SHH633	1800	750	670	1200	-	150	24	-50	160	1830	315	400	765
				45	225M	PB342	SHH634	1800	750	670	1200	-	150				1855			794
				55	250M	PB344	SHH635	1800	750	670	1200	-	150				1920			906
250	200	315	4	37	225S	PB382	SHH633	1800	750	670	1200	-	150				1850			805
				45	225M	PB384	SHH634	1800	750	670	1200	-	150	24	-70	180	1875	315	450	834
				55	250M	PB386	SHH635	1800	750	670	1200	-	150				1940			946
				75	280S	PB388	SHH641	1800	750	670	1200	-	150				2015			1088
200	150	400	4	55	250M	PB352	SHH635	1800	750	670	1200	-	150				1920			971
				75	280S	PB354	SHH641	1800	750	670	1200	-	150	24	-50	160	1995	315	450	1113
				90	280M	PB356	SHH642	1800	750	670	1200	-	150				2045			1223
				110	315S	PB358	SHH642	1800	750	670	1200	-	150				2218			1557
125	100	500	4	45	225M	PB308	SHH614	2000	750	670	1400	-	170				1855			899
				55	250M	PB310	SHH617	1800	750	670	1200	-	150	24	-50	160	1920	355	450	1011
				75	280S	PB312	SHH618	1800	750	670	1200	-	150				1995			1153
				90	280M	PB314	SHH619	1800	750	670	1200	-	150				2045			1263
150	125	500	4	55	250M	PB322	SHH617	1800	750	670	1200	-	150				1920			1036
				75	280S	PB324	SHH618	1800	750	670	1200	-	150				1995			1177
				90	280M	PB326	SHH619	1800	750	670	1200	-	150	24	-50	160	2045	355	450	1287
				110	315S	PB328	SHH619	1800	750	670	1200	-	150				2218			1623
				132	315M	PB330	SHH628	2100	850	775	1420	-	150				2278			1737
200	150	500	4	75	280S	PB366	SHH647	2000	750	670	1400	-	180				1995			1202
				90	280M	PB368	SHH648	2000	750	670	1400	-	180				2045			1307
				110	315S	PB370	SHH651	2000	750	670	1400	-	180	24	-50	160	2218	400	500	1648
				132	315M	PB372	SHH652	2100	850	775	1420	-	150				2278			1762
				160	315L	PB374	SHH653	2100	850	775	1420	-	150				2328			1822
				200	315L	PB374	SHH653	2100	850	775	1420	-	150				2328			1862

Pump Flanged Connections to A.S. 2129 — Table E

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Dimension Data...

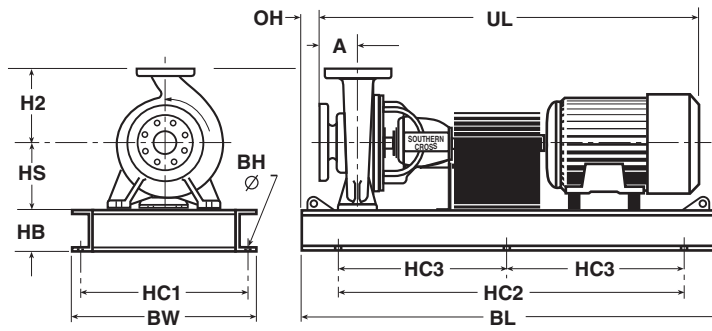
* Space necessary for withdrawal of bearing housing, backplate and impeller assembly without disturbing body and pipework.

No.4 Shaft 315, 400 and 500 Series Pumps with 970 RPM (Nominal Speed) TEFC Motors and ISO Pre-Fabricated Steel Bases — Standard Coupling



PUMP SIZE			SHAFT No.	MOTOR kW	FRAME SIZE	BASE KIT CODE	BASE CODE	DIMENSIONS														
INLET	OUTLET	IMP DIA						BL	BW	HC1	HC2	HC3	HB	BH	OH	A	UL	HS	H2	Gap X*	kg	
200	150	315	4	7.5	160M	PB331	SHH629N	1600	660	600	1060	-	125				1473					504
				11	160L	PB333	SHH630N	1600	660	600	1060	-	125	24	-50	160	1528	315	400	180	532	
				15	180L	PB335	SHH631N	1800	750	670	1200	-	165				1598					626
250	200	315	4	11	160L	PB375	SHH630N	1600	660	600	1060	-	125				1548					572
				15	180L	PB377	SHH631N	1800	750	670	1200	-	165	24	-70	180	1618	315	450	180	666	
				18.5	200L	PB379	SHH632N	1800	750	670	1200	-	150				1648					690
				22	200L	PB379	SHH632N	1800	750	670	1200	-	150				1648					720
200	150	400	4	15	180L	PB345	SHH631N	1800	750	670	1200	-	165				1598					691
				18.5	200L	PB347	SHH632N	1800	750	670	1200	-	150	24	-50	160	1628	315	450	180	715	
				22	200L	PB347	SHH632N	1800	750	670	1200	-	150				1628					745
				30	D225M	PB349	SHH634N	1800	750	670	1200	-	150				1718					797
125	100	500	4	11	160L	PB301	SHH610N	1600	660	600	1060	-	130				1528					636
				15	180L	PB303	SHH611N	1800	750	670	1200	-	175				1598					716
				18.5	200L	PB305	SHH612N	1800	750	670	1200	-	195	24	-50	160	1628	355	450	180	745	
				22	200L	PB305	SHH612N	1800	750	670	1200	-	195				1628					775
				30	D225M	PB307	SHH614N	1800	750	670	1200	-	170				1718					841
150	125	500	4	18.5	200L	PB315	SHH612N	1800	750	670	1200	-	195				1628					769
				22	200L	PB315	SHH612N	1800	750	670	1200	-	195	24	-50	160	1628	355	450	180	799	
				30	D225M	PB317	SHH614N	1800	750	670	1200	-	170				1718					865
				37	D250M	PB319	SHH617N	1800	750	670	1200	-	150				1783					976
200	150	500	4	22	200L	PB359	SHH644N	1800	750	670	1200	-	150				1628					840
				30	D225M	PB361	SHH645N	1800	750	670	1200	-	175				1718					876
				37	D250M	PB363	SHH646N	1800	750	670	1200	-	150	24	-50	160	1783	400	500	180	1006	
				45	D280S	PB365	SHH647N	1800	750	670	1200	-	180				1858					1131
				55	D280M	PB367	SHH648N	1800	750	670	1200	-	180				1908					1190

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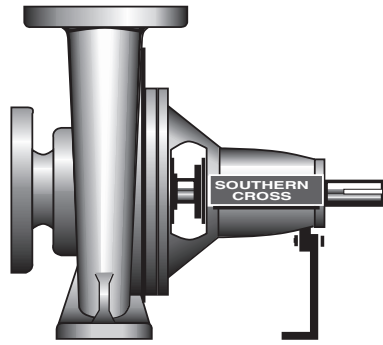


Dimension Data...

No.4 Shaft 315, 400 and 500 Series Pumps with 970 RPM (Nominal Speed) TEFC Motors and ISO Pre-Fabricated Steel Bases — Spacer Coupling

PUMP SIZE			SHAFT No.	MOTOR kW	FRAME SIZE	BASE KIT CODE	BASE CODE	DIMENSIONS												
INLET	OUTLET	IMP DIA						BL	BW	HC1	HC2	HC3	HB	BH	OH	A	UL	HS	H2	kg
200	150 SHH	315	4	7.5	160M	PB332	SHH629	1600	660	600	1060	-	125			1625				587
				11	160L	PB334	SHH630	1600	660	600	1060	-	125	24	-50	160	1680	315	400	615
				15	180L	PB336	SHH631	2000	750	670	1400	-	165			1750				666
250	200 SHJ	315	4	11	160L	PB376	SHH630	1600	660	600	1060	-	125			1700				655
				15	180L	PB378	SHH631	2000	750	670	1400	-	165	24	-70	180	1770	315	450	706
				18.5	200L	PB380	SHH632	1800	750	670	1200	-	150			1800				734
				22	200L	PB380	SHH632	1800	750	670	1200	-	150			1800				764
200	150 SJH	400	4	15	180L	PB346	SHH631	2000	750	670	1400	-	165			1750				731
				18.5	200L	PB348	SHH632	1800	750	670	1200	-	150	24	-50	160	1780	315	450	759
				22	200L	PB348	SHH632	1800	750	670	1200	-	150			1780				789
				30	D225M	PB350	SHH634	1800	750	670	1200	-	150			1855				831
125	100 SKF	500	4	11	160L	PB302	SHH610	1600	660	600	1060	-	130			1680				720
				15	180L	PB304	SHH611	1800	750	670	1200	-	175			1750				770
				18.5	200L	PB306	SHH612	1800	750	670	1200	-	195	24	-50	160	1780	355	450	799
				22	200L	PB306	SHH612	1800	750	670	1200	-	195			1780				829
				30	D225M	PB308	SHH614	2000	750	670	1400	-	170			1855				871
150	125 SKG	500	4	18.5	200L	PB316	SHH612	1800	750	670	1200	-	195			1780				823
				22	200L	PB316	SHH612	1800	750	670	1200	-	195	24	-50	160	1780	355	450	853
				30	D225M	PB318	SHH614	2000	750	670	1400	-	170			1855				895
				37	D250M	PB320	SHH617	1800	750	670	1200	-	150			1920				1016
200	150 SKH	500	4	22	200L	PB360	SHH644	1800	750	670	1200	-	150			1780				878
				30	D225M	PB362	SHH645	1800	750	670	1200	-	175			1855				920
				37	D250M	PB364	SHH646	2000	750	670	1400	-	150	24	-50	160	1920	400	500	1041
				45	D280S	PB366	SHH647	2000	750	670	1400	-	180			1995				1176
				55	D280M	PB368	SHH648	2000	750	670	1400	-	180			2045				1235

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Material Specifications



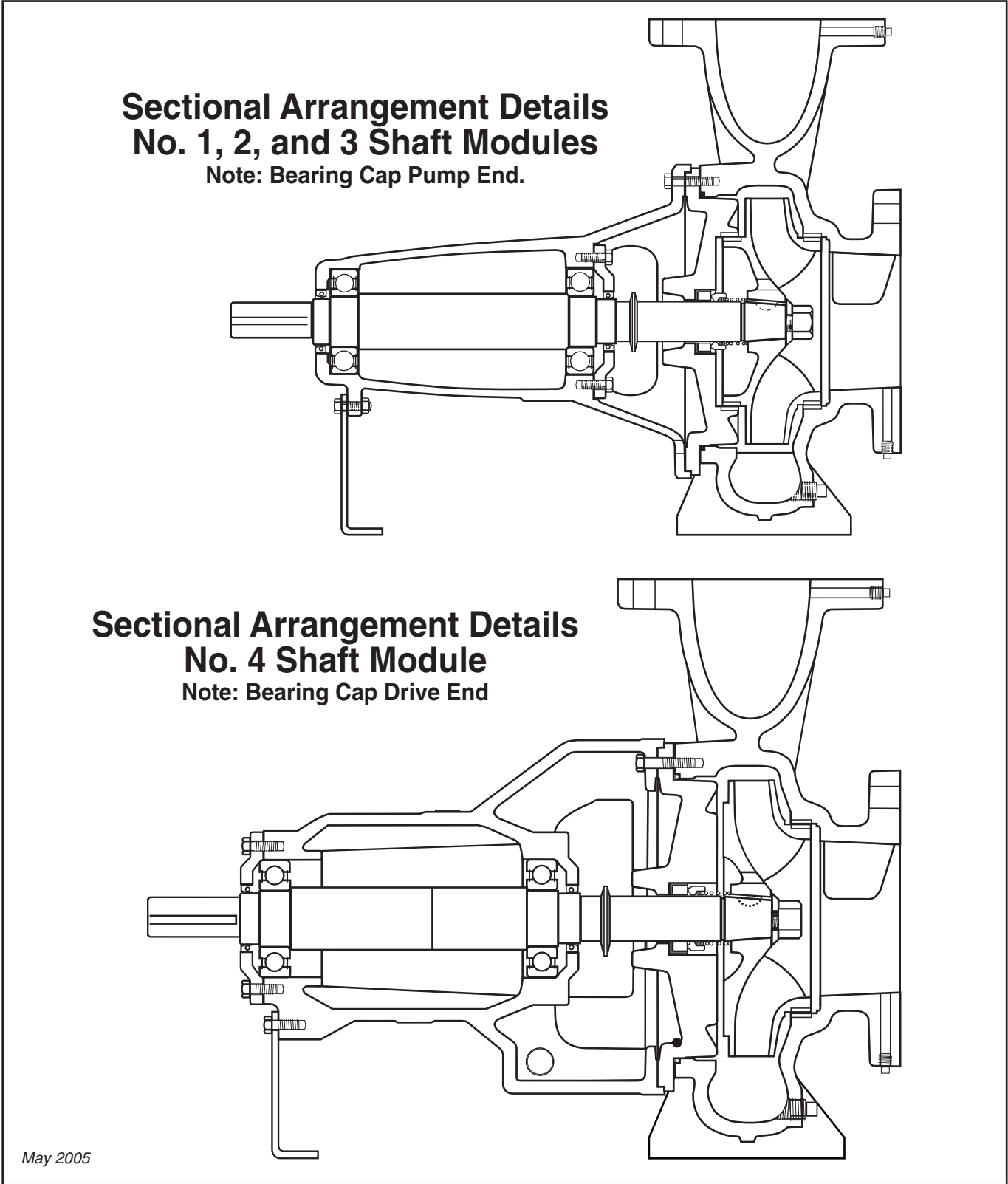
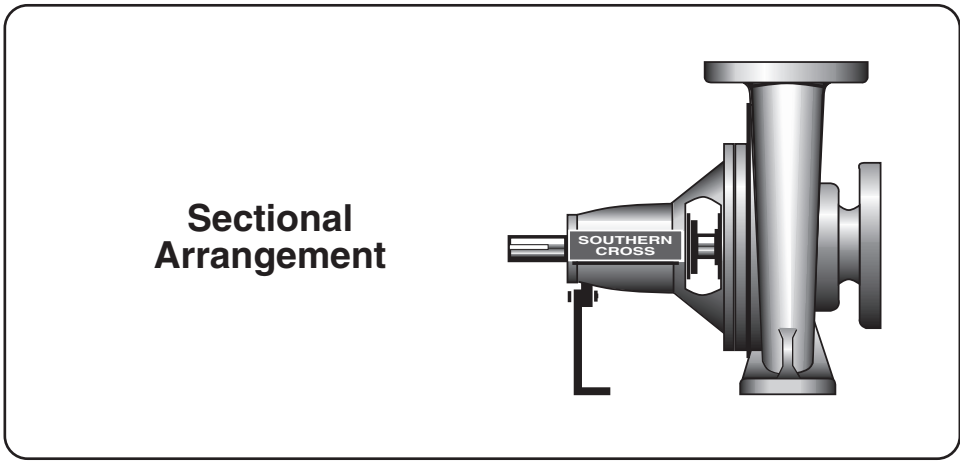
MATERIAL SPECIFICATIONS

SYMBOL	MATERIAL	SPECIFICATION	COMPONENT WHERE USED
CI	Cast Iron	AS1830/T260 Equivalent Standards: BS 1452 (1977) Grade 260 ANSI. 625.1 Class 40 ASTM A48 Class 40	Bearing Housing Bearing Cover Volute Casing Backplate Impeller
ZF	Zinc Free Bronze	AS 1565/ C90250 Equivalent Standards: BS 1400 PB3 ISO 1338 CU SN 10	Impeller Wear Rings
MS	Mild Steel	AS 1204/250	Support foot
SS	Wrought Stainless Steel	AS 2837/431 Equivalent Standards: BS 970 Grade 431 S29 ASTM A176/S43100	Shaft
		AS 283 7/316 Equivalent Standards: BS 970 Grade 319S16 ASTM A240/S31609	Impeller Washer Impeller Nut
HT	High Tensile Steel	AS 1110 Gr. 8.8	All Bolts and Setscrews
	Mild Steel Zinc Plated		Casing and Discharge Flange Plugs
	Key Steel		Impeller Key Pulley key

PAINTING

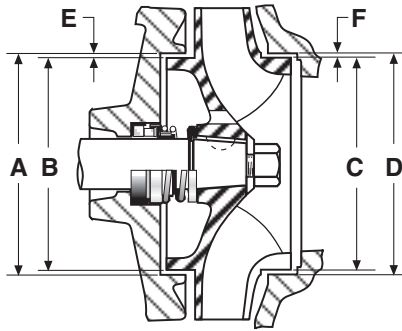
One Coat — WattyI Super Etch Grey Primer (WattyI Part No. 123907)
 Two Coats — WattyI 517 Hammer Finish Green (WattyI Part No. 151741)
 Colour — Hammer Finish green

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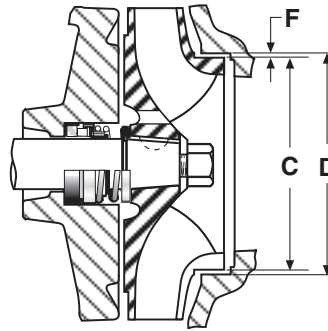


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Impeller Clearances



No. 1, 2, and 3 Shaft

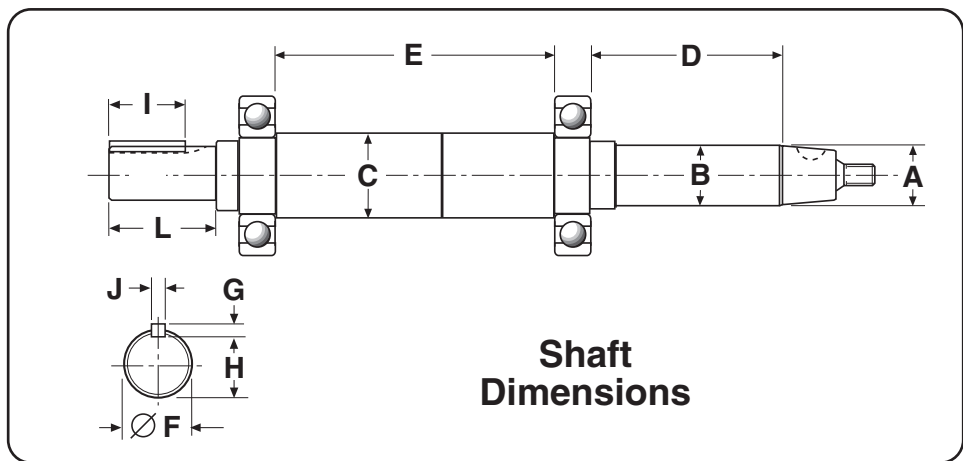


No. 4 Shaft



PUMP SIZE		IMPELLER AND CASING SEALING DIAMETERS				RADIAL CLEARANCE	
		A	B	C	D	E	F
50 x 32-160	65 x 50-160	92.05 92.00	91.76 91.71	91.76 91.71	92.05 92.00	0.12 0.17	0.12 0.17
80 x 65-160		92.05 92.00	91.76 91.71	104.72 104.67	105.05 105.00	0.12 0.17	0.14 0.19
100x 80-160		132.05 132.00	131.68 131.61	131.68 131.61	132.05 132.00	0.16 0.22	0.16 0.22
50 x 32-200	65 x 40-200	105.05 105.00	104.72 104.67	91.76 91.71	92.05 92.00	0.14 0.19	0.12 0.17
80 x 50-200		105.05 105.00	104.72 104.67	104.72 104.67	105.05 105.00	0.14 0.19	0.14 0.19
100 x 65-200		132.05 132.00	131.68 131.61	131.68 131.61	132.05 132.00	0.16 0.22	0.16 0.22
125 x 80-200	125 x 100-200	160.05 160.00	159.66 159.59	159.66 159.59	160.05 160.00	0.17 0.23	0.17 0.23
65 x 40-250	80 x 50-250	115.05 115.00	114.70 114.65	114.70 114.65	115.05 115.00	0.15 0.20	0.15 0.20
100 x 65-250		132.05 132.00	131.68 131.61	131.68 131.61	132.05 132.00	0.16 0.22	0.16 0.22
125 x 80-250		132.05 132.00	131.68 131.61	159.66 159.59	160.05 160.00	0.16 0.22	0.17 0.23
65 x 40-315		115.05 115.00	114.70 114.65	104.72 104.67	105.05 105.00	0.15 0.20	0.14 0.19
80 x 50-315		115.05 115.00	114.70 114.65	114.70 114.65	115.05 115.00	0.15 0.20	0.15 0.20
125 x 100-250	150 x 125-250	186.05	185.66	185.66	186.05	0.17	0.17
150 x 125-315	125 x 80-400	186.00	185.59	185.59	186.00	0.23	0.23
125 x 100-400	150 x 125-400						
100 x 65-315	125 x 80-315	160.05 160.00	159.66 159.59	159.66 159.59	160.05 160.00	0.17 0.23	0.17 0.23
200 x 150-315	200 x 150-400	—	—	235.09 235.03	235.59 235.53	—	0.22 0.28
250 x 200-315		—	—	265.11 265.05	265.66 265.60	—	0.24 0.30
125 x 100-500		—	—	170.09 170.03	170.51 170.45	—	0.18 0.24
150 x 125-500		—	—	200.10 200.04	200.55 200.49	—	0.19 0.25
MACHING SIZES TO RETROFIT WEAR RINGS TO CASINGS AND IMPELLERS	NOM. SIZE	IMP. WEAR RING	IMP. TURN SIZE	CASINGWEAR RING	CASING BORE SIZE		
	92mm	SEA026	Ø 84.830 / 84.795	SEA027	Ø 99.000 / 99.035		
	105mm	SEC026	Ø 97.830 / 97.795	SEC027	Ø 112.000 / 112.035		
	115mm	SGB026	Ø 106.800 / 106.765	SGB027	Ø 123.000 / 123.035		
	132mm	SED026	Ø 123.77 / 123.73	SED027	Ø 140.000 / 140.040		
	160mm	SFF026	Ø 151.770 / 151.730	SFF027	Ø 168.000 / 168.040		
	170mm	SKF026	Ø 158.08 / 158.03	SKF027	Ø 182.46 / 182.51		
	185mm	SGF026	Ø 177.770 / 177.730	SGF027	Ø 194.000 / 194.040		
	200mm	SKG026	Ø 188.10 / 188.05	SKG027	Ø 210.50 / 210.55		
	235mm	SHH026	Ø 223.09 / 223.04	SHH027	Ø 247.55 / 247.60		
265mm	SHJ026	Ø 253.10 / 253.05	SHJ027	Ø 277.62 / 277.67			

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SHAFT MODULE	SHAFT DIMENSIONS											BEARING SIZES	
	A	B	C	D	E	F (Diam.) NOM. TOL.	G	H (Depth) NOM. TOL.	I	J	L	IMP. END	DRIVE END
No. 1 SHAFT	25.27	33	45	127	134	24 +0.01 -0.01	7	20 +0 -0.2	30	8	50	6307	6306
No. 2 SHAFT	34.8	43	54	138.5	200.2	32 +0.02 -0	8	27 +0 -0.2	55	10	80	6309	6308
No. 3 SHAFT	45	53	66	156	164	42 +0.02 -0	8	37 +0 -0.2	80	12	110	6311	6310
NO. 4 SHAFT	53	60	75	201	226	48 +0.02 -0.01	9	42.5 +0 -0.2	80	14	110	6313	60313

PUMPS / SHAFT MODULES (Back Pull-out Weights kg)			
No.1	No. 2	No. 3	No. 4
50 x 32 - 160 (23.9 kg)	100 x 80 - 160 (35.7 kg)	125 x 100 - 250 (63 kg)	200 x 150 - 315 (133 kg)
65 x 50 - 160 (23.8 kg)	100 x 65 - 200 (38.7 kg)	150 x 125 - 250 (63 kg)	250 x 200 - 315 (136 kg)
80 x 65 - 160 (24.0 kg)	125 x 80 - 200 (38.9 kg)	100 x 65 - 315 (68 kg)	200 x 150 - 400 (169 kg)
50 x 32 - 200 (28.1 kg)	125 x 100 - 200 (39.1 kg)	125 x 80 - 315 (68 kg)	125 x 100 - 500 (189 kg)
65 x 40 - 200 (28.4 kg)	65 x 40 - 250 (42.9 kg)	125 x 100 - 315 (69 kg)	150 x 125 - 500 (192 kg)
80 x 50 - 200 (28.4 kg)	80 x 50 - 250 (42.9 kg)	150 x 125 - 315 (69 kg)	200 x 150 - 500 (196 kg)
	100 x 65 - 250 (43.5 kg)	125 x 80 - 400 (90 kg)	
	125 x 80 - 250 (43.8 kg)	125 x 100 - 400 (90 kg)	
	65 x 40 - 315 (55.4 kg)	150 x 125 - 400 (91 kg)	
	80 x 50 - 315 (54.5 kg)		

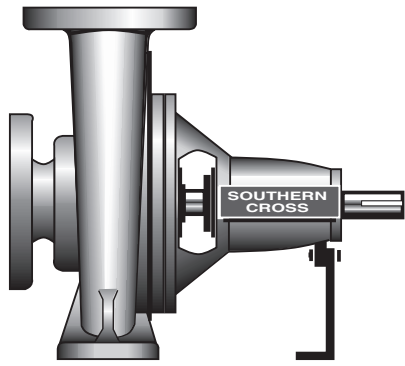
FLANGE DIMENSIONS

NOTE:

- Holes machined off centrelines.
- Flange drilling as shown below conforms to AS 2129—1982 Table 'E' for cast iron flanges.
- Flange drilling to ANSI B16.1.1975 Class 125 (ISO7005 — PN20) PN16 are available options.
- * Discharge flanges on No. 4 shaft pumps are tapped as follows...
125x100-500 and 150x125-500 tapped M16 x 2mm
200x150-315, 200x150-400, 200x150-500 and 250x 200-315 tapped M20 x 2.5mm

NOMINAL FLANGE SIZE		32	40	50	65	80	* 100	* 125	* 150	* 200	250
FLANGE DIAMETER	A	140	150	165	185	200	220	250	285	340	405
HOLE P.C.D.	B	87	98	114	127	146	178	210	235	292	356
FLANGE THICKNESS	C	18	18	20	20	22	24	26	26	30	32
HOLE DIAMETER	D	14	14	18	18	18	18	18	22	22	22
NUMBER OF HOLES	N	4	4	4	4	4	8	8	8	8	12

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**Miscellaneous
Pump
Data
No. 1, 2, 3 and
4 Shaft**



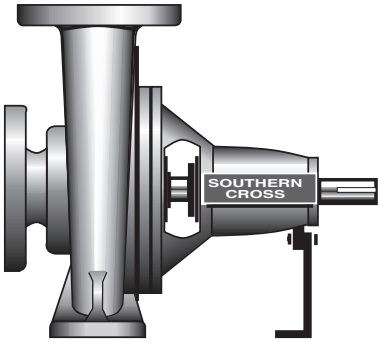
PUMP SIZE	C.I. IMPELLER kg	IMPELLER ROTATIONAL INERTIA (kg/m ²)	MIN. CASING THICKNESS (mm)	C.I.-Z.F. IMPELLER		SHAFT CRITICAL SPEED (r.p.m.)	MAX. OPERATING SPEED (r.p.m.)	IMPELLER	
				HYDROSTATIC TEST PRESSURE (kPa)	MAX. WORKING PRESSURE (kPa)			No. of VANES	MAX SPHERE SIZE (mm)
50 x 32 - 160	2.7	0.008	9	3800	2500	14,600	3600	6	5
65 x 50 - 160	2.6	0.008	9	3800	2500	14,600	3600	6	7
80 x 65 - 160	2.8	0.010	10	3800	2500	14,600	3600	6	11
100 x 80 - 160	4.2	0.014	10	3800	2500	16,700	3600	6	12
50 x 32 - 200	3.7	0.018	9	3300	2200	12,400	3600	6	4
65 x 40 - 200	4.0	0.019	9	3800	2500	12,400	3600	6	5
80 x 50 - 200	4.0	0.021	10	3800	2500	12,400	3600	6	9
100 x 65 - 200	6.0	0.033	10	2800	1850	14,900	3600	6	14
125 x 80 - 200	6.5	0.037	11.5	2620	1750	13,900	3000	6	15
125 x 100 - 200	6.4	0.036	13	3000	2000	14,400	3000	6	17
65 x 40 - 250	6.0	0.042	10	3300	2200	14,900	3600	5	5
80 x 50 - 250	6.0	0.042	10	2800	1900	14,900	3600	6	6
100 x 65 - 250	7.0	0.052	11	2600	1700	13,600	3000	6	9
125 x 80 - 250	8.0	0.061	12.5	2620	1750	12,600	3000	6	15
125 x 100 - 250	9.5	0.077	12	2400	1600	14,450	3000	6	23
150 x 125 - 250	10	0.088	14	2470	1650	13,970	2600	6	33
65 x 40 - 315	10.1	0.128	11	2800	1900	12,600	3000	5	5
80 x 50 - 315	9.2	0.112	12	3300	2200	11,800	3000	5	7
100 x 65 - 315	12.3	0.139	13	2700	1800	12,820	3000	6	9.5
125 x 80 - 315	13.0	0.152	14	2620	1750	12,300	3000	6	11.5
125 x 100 - 315	13.2	0.157	16	3070	2050	12,250	2800	6	14.5
150 x 125 - 315	13.4	0.164	16	2470	1650	12,160	2300	6	26
200 x 150 - 315	20	0.285	17	2400	1600	8660	1800	6	23
250 x 200 - 315	24	0.360	18	2400	1600	7480	1800	6	29
125 x 80 - 400	20.5	0.422	15	2400	1600	9990	2300	5	9.5
125 x 100 - 400	19.9	0.389	16	2400	1600	10,140	2100	6	12
150 x 125 - 400	20.6	0.427	17	2400	1600	9970	2000	6	18
200 x 150 - 400	30	0.704	20	2400	1600	7380	1800	6	31
125 x 100 - 500	39	1.233	20	2400	1600	6710	1600	9	18.5
150 x 125 - 500	41	1.392	21	2400	1600	6510	1600	7	20
200 x 150 - 500	42	1.546	22	2400	1600	6360	1600	6	21.5

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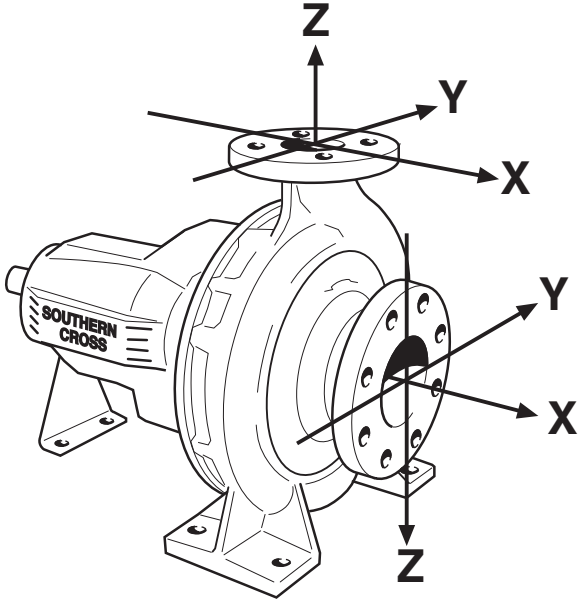
Southern Cross

ISO 2858

CENTRIFUGAL PUMPS



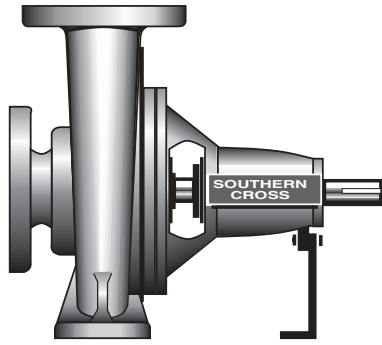
FORCES AND MOMENTS
for
Pumps with Cast Iron Casings AS 1830 / T260



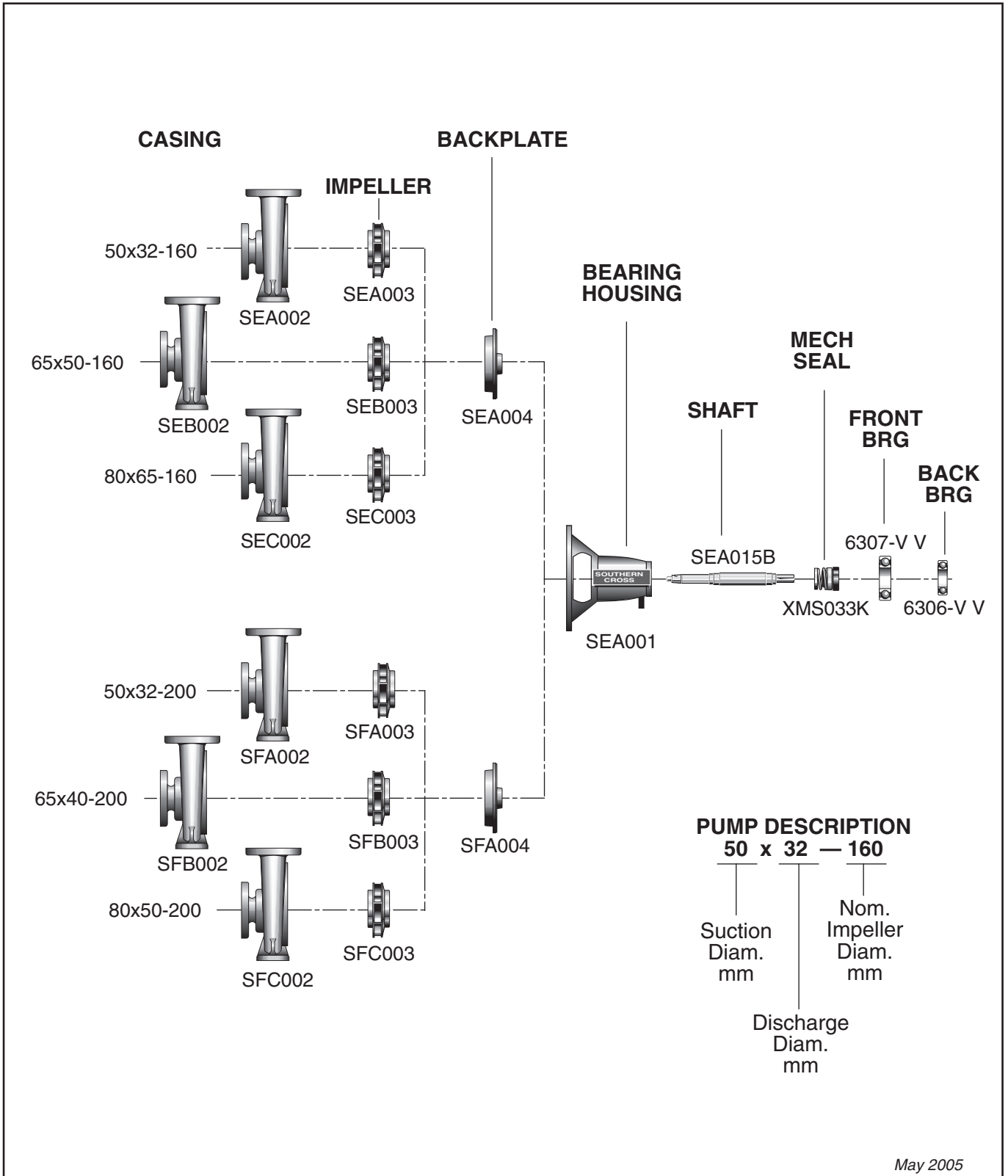
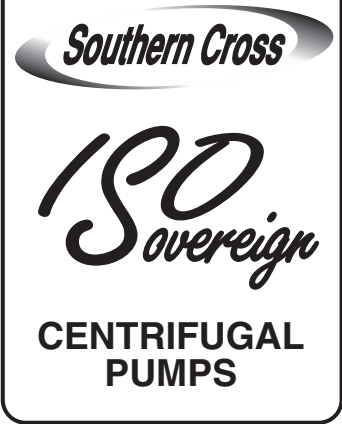
Fx Fy Fz Newtons
Mx My Mz Newton Metres

Flange Size	Suction			Discharge			Moments		
	Fx	Fy	Fz	Fx	Fy	Fz	Mx	My	Mz
50mm	445	356	289	356	289	445	230	115	176
65mm	556	445	367	445	367	556	352	176	268
80mm	667	534	445	534	445	667	474	237	359
100mm	890	712	578	712	578	890	664	338	502
125mm	1223	978	800	978	800	1223	908	464	691
150mm	1557	1245	1023	1245	1023	1557	1152	590	881
200mm	2446	1890	1556	1890	1556	2446	1762	881	1288
250mm	3336	2668	2224	2668	2224	3336	2508	1220	1898

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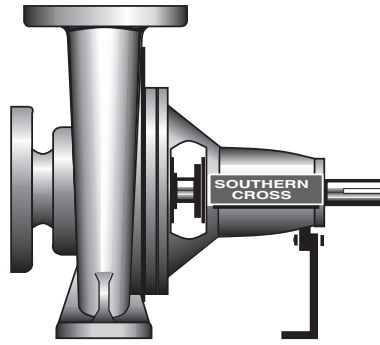
No. 1 Shaft Assembly Group



Southern Cross

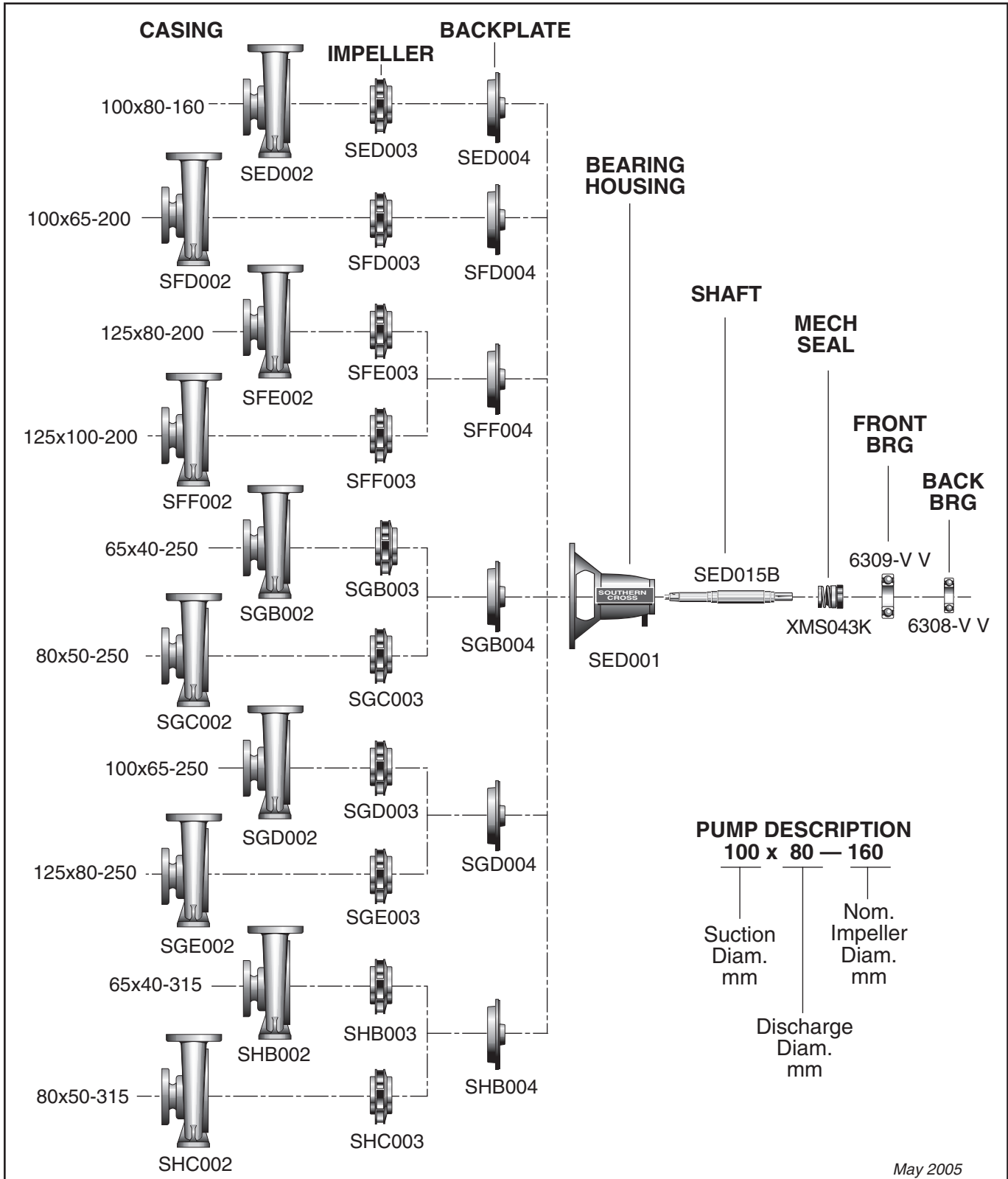
**ISO
Sovereign**

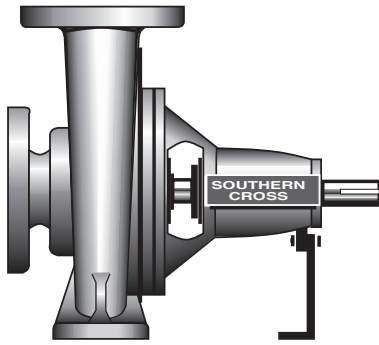
**CENTRIFUGAL
PUMPS**



No. 2

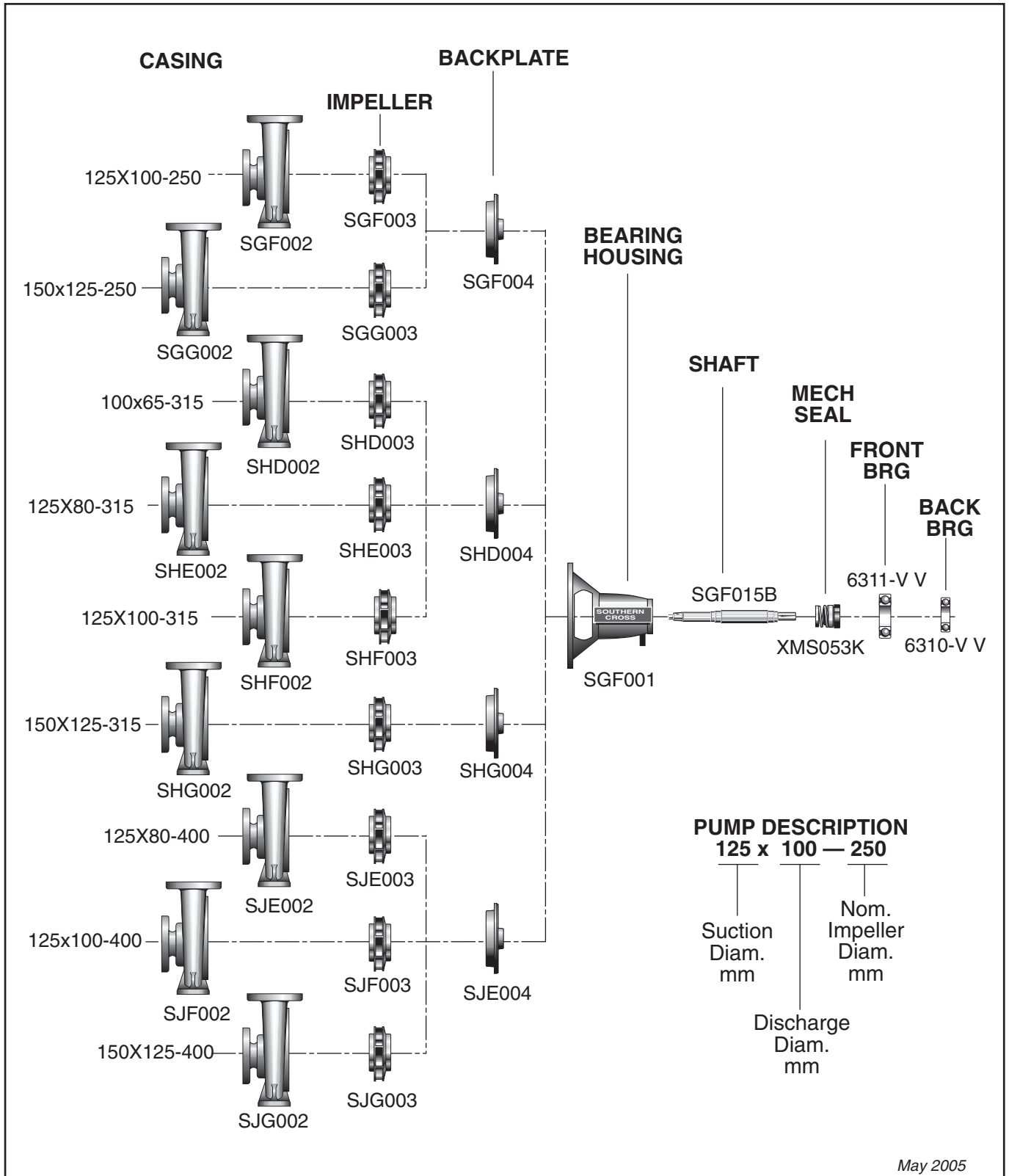
**Shaft
Assembly
Group**



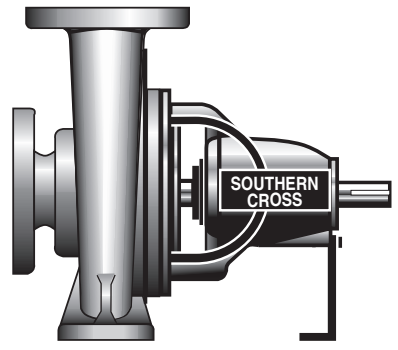


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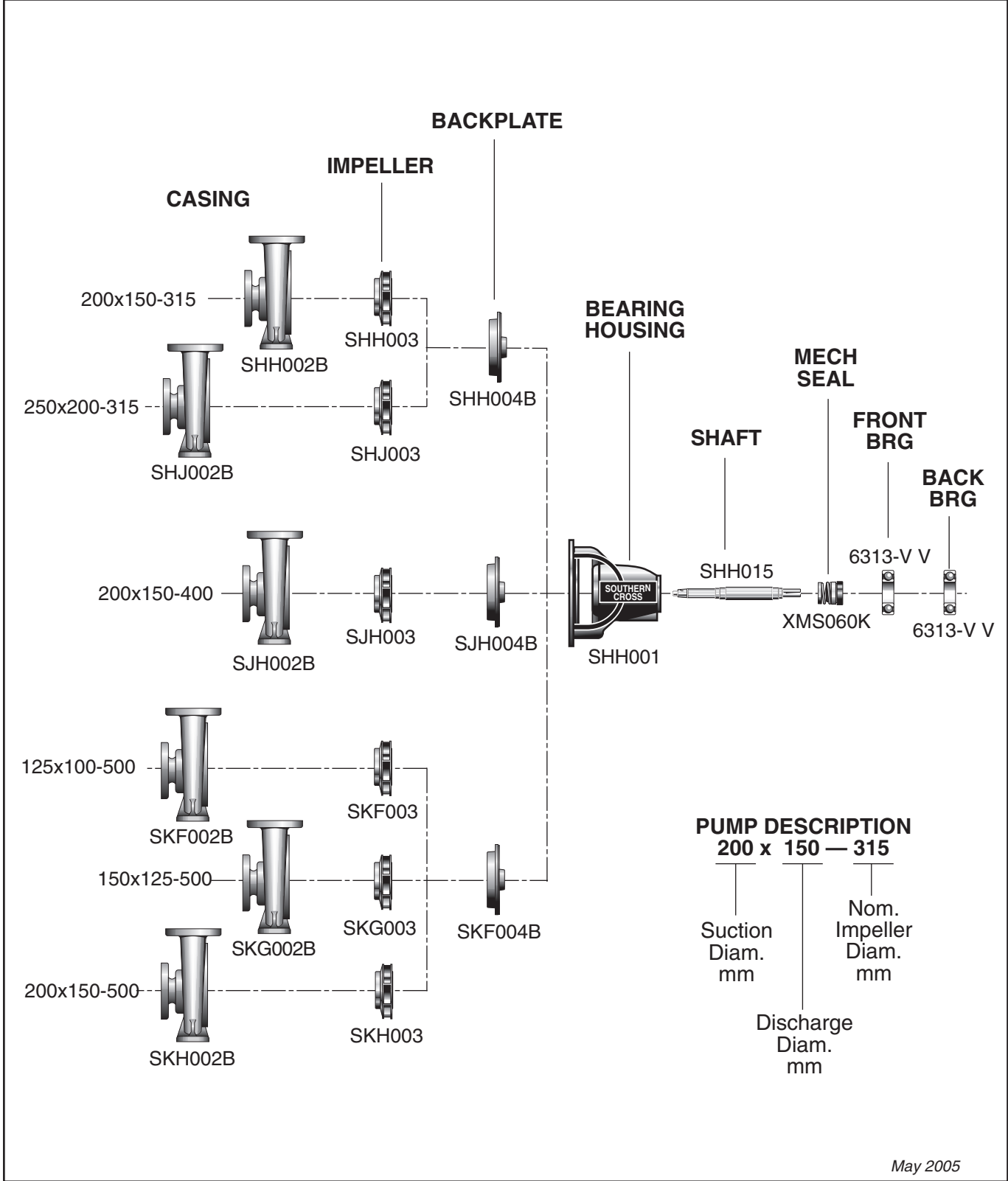
Shaft
Assembly
Group



Southern Cross
ISO
Sovereign
CENTRIFUGAL PUMPS



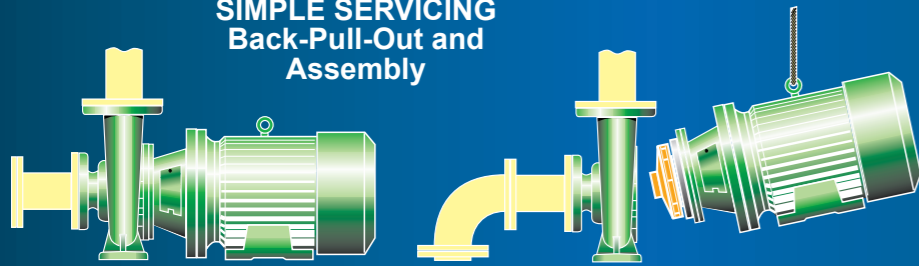
No. 4
Shaft
Assembly
Group





“STAR-LINE” CENTRIFUGAL MOTORPUMPS

SIMPLE SERVICING
Back-Pull-Out and
Assembly



Southern Cross “Star-Line” Motorpumps offer time and cost saving advantages during servicing. Pump body, with suction and discharge lines attached, remains undisturbed during back-pull-out and reassembly. The complications of flexible coupling disassembly and realignment associated with long coupled pump units are also totally eliminated.

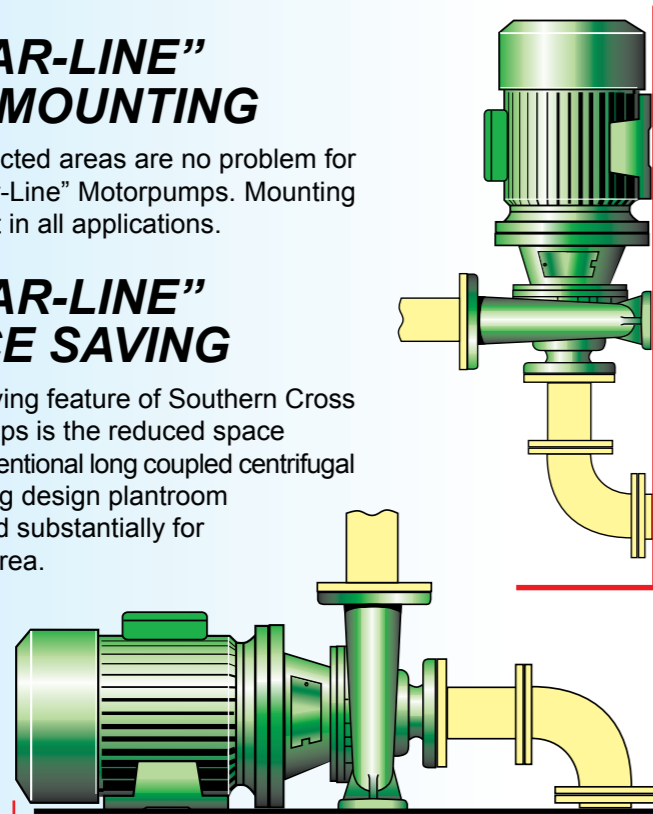
“STAR-LINE” PUMP MOUNTING

Wells and other restricted areas are no problem for Southern Cross “Star-Line” Motorpumps. Mounting is simple and efficient in all applications.

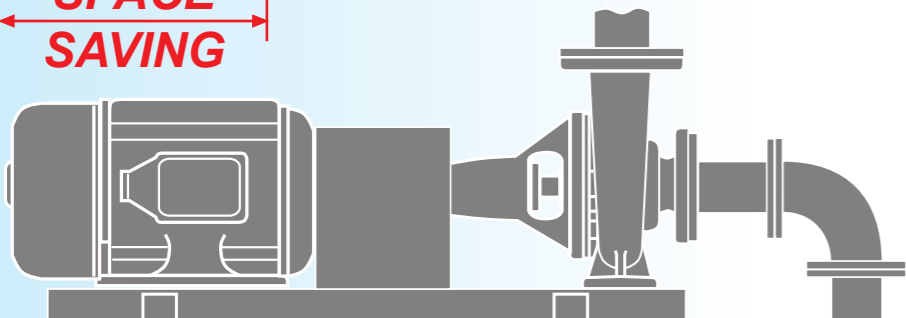
“STAR-LINE” SPACE SAVING

A substantial cost saving feature of Southern Cross “Star-Line” Motorpumps is the reduced space requirement over conventional long coupled centrifugal pump units. In building design plantroom space can be reduced substantially for big savings on floor area.

Where space is already limited “Star-Line” Motorpumps provide a space saving and economical solution.



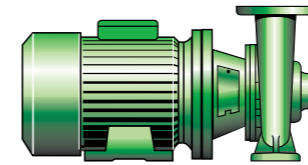
SPACE SAVING



Ph: 131 786
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web: www.tycoflowcontrol.com.au

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“STAR-LINE” CENTRIFUGAL MOTORPUMPS

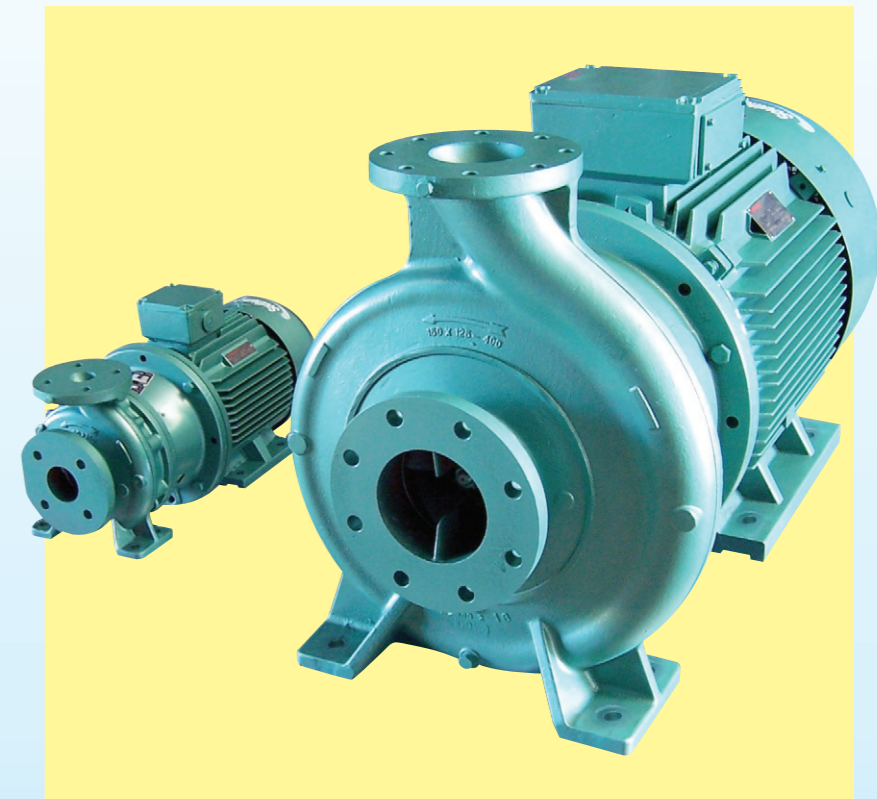
AUSTRALIAN MADE TO ISO 2858 STANDARD

APPLICATIONS

- Designed for efficient and reliable general purpose water transfer in industry, building services and irrigation.

FEATURES

- Space saving design
- Superior hydraulic design & manufacturing methods produce significantly higher efficiencies for lower running costs and reduced maintenance.
- Australian designed and manufactured.
- Up to 100 litres per second discharge.
- Australia wide service and backup.
- 32 to 125mm discharge.
- Wide range of options.
- Heads to 160 metres.



...setting the standard for pump performance and quality...

Australian made
to...
ISO 2858
International Standard

...setting the standard
for pump performance
and quality...

REDUCED RUNNING COSTS

Superior hydraulic design and high technology manufacturing methods produce significantly higher efficiencies for less power consumption and minimum maintenance ...features which guarantee Southern Cross “Star-Line” Motorpump users continuing savings in all applications.

GENERAL-PURPOSE PUMPS

Southern Cross “Star-Line” Motorpumps offer top efficiency and reliability for a full range of general purpose water transfer applications in industry, building services and irrigation.

INTERNATIONAL STANDARD

Conforming with ISO2858 Standard means dimensional interchangeability with other makes of pumps, manufactured to the same international standard, however because of design superiority Southern Cross “Star-Line” Motorpumps exceed the performance standard.

“ISO Star-Line” FEATURES

These Australian designed and manufactured Southern Cross “Star-Line” Motorpumps are readily available in a full range of sizes, backed not only by an Australia wide service and spare parts network, but with an extensive group of international stock and service centres.

PUMP CONSTRUCTION FEATURES...

SUPERIOR HYDRAULIC DESIGN FOR GREATER PERFORMANCE AND REDUCED RUNNING COSTS

STANDARD FLANGED, FOOT MOUNTED ELECTRIC MOTOR

MOTOR SHAFT

MECHANICAL SHAFT SEAL

RIGID CAST IRON BELL HOUSING ACCURATELY ALIGNS MOTOR AND PUMP

SEPARATE BACKPLATE FOR EASY PUMP SERVICING

STURDY MOUNTING FEET CAST INTEGRAL WITH PUMP BODY

TAPPED CONNECTION FOR PRESSURE GAUGE

FLANGES TO AS2129 TABLE “E” OPTIONAL DRILLINGS ON REQUEST

REUSABLE “O” RING SEAL BETWEEN PUMP VOLUTE AND BACKPLATE

HEAVY DUTY STAINLESS STEEL SHAFT EXTENSION

TAPER MOUNTED AND KEYED IMPELLER FOR EASY REMOVAL AND POSITIVE LOCKING

TAPPED CONNECTION FOR SUCTION GAUGE

TAPPED AND PLUGGED VOLUTE DRAIN HOLE

2 YEAR WARRANTY

Special design features of Southern Cross “Star-Line” Motorpumps include the use of standard off-the-shelf foot and flanged electric motors with highly accurate clamp on shaft extensions; taper mounted and keyed impeller for easy removal from shaft during servicing and positive locking during operation; heavy duty stainless steel shaft extension for safe operation at high speed; AS1830/T260 cast iron volute for added safety; reusable “O” ring body seal; hydraulically and dynamically balanced impellers; and highly efficient suction performance from double curvature impeller vanes.

● STANDARD FEATURES

Type 316 stainless steel shaft extension; S.G. cast iron motor shaft clamp; TEFC IP55 motor; rugged cast iron volute with integral suction and discharge flanges and mounting feet; pressure rated to 1600kPa (160 metres head); cast iron impeller and backplate; stainless steel impeller nut; rigid cast iron bell housing connects motor and pump housing; and single mechanical seal.

● OPTIONAL MATERIALS

Zinc-free bronze impeller and Molybond coating.

● OPTIONAL EXTRAS

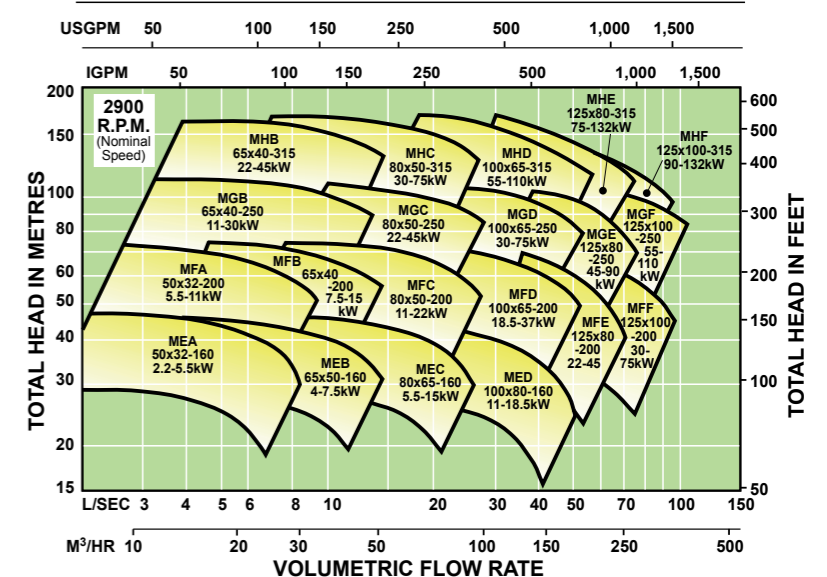
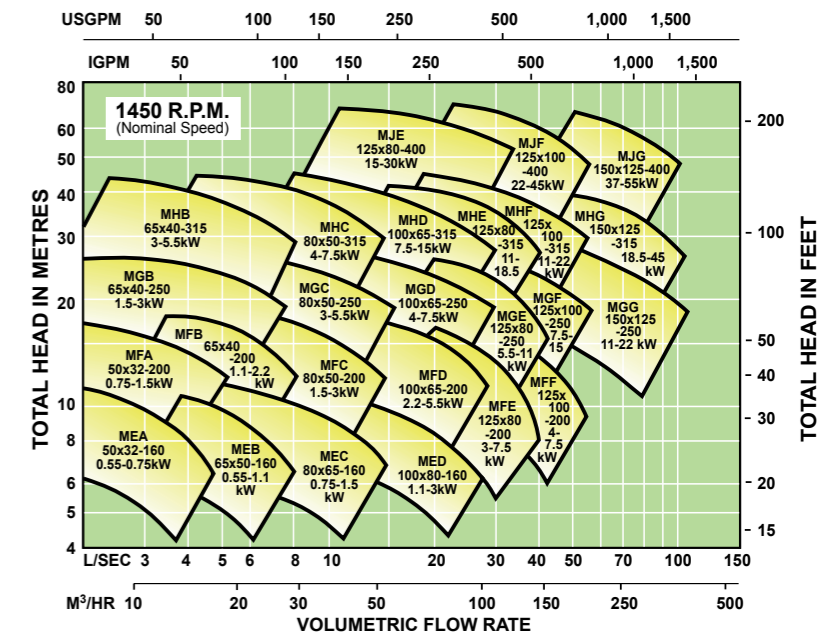
Zinc-free bronze wear rings for impeller, volute and backplate; optional single mechanical seals; optional motor specifications and classes; works certified and witnessed tests for guaranteed performance; impeller turn-downs; and pressed or welded steel baseplates.

● MAXIMUM OPERATING TEMP.

Maximum pumped liquid temperature for Southern Cross “Star-Line” Motorpumps is 100°C using standard seals. Liquids up to 140°C can be handled using special seals... consult Southern Cross Customer Service Unit for further information.



PUMP SELECTION GUIDE





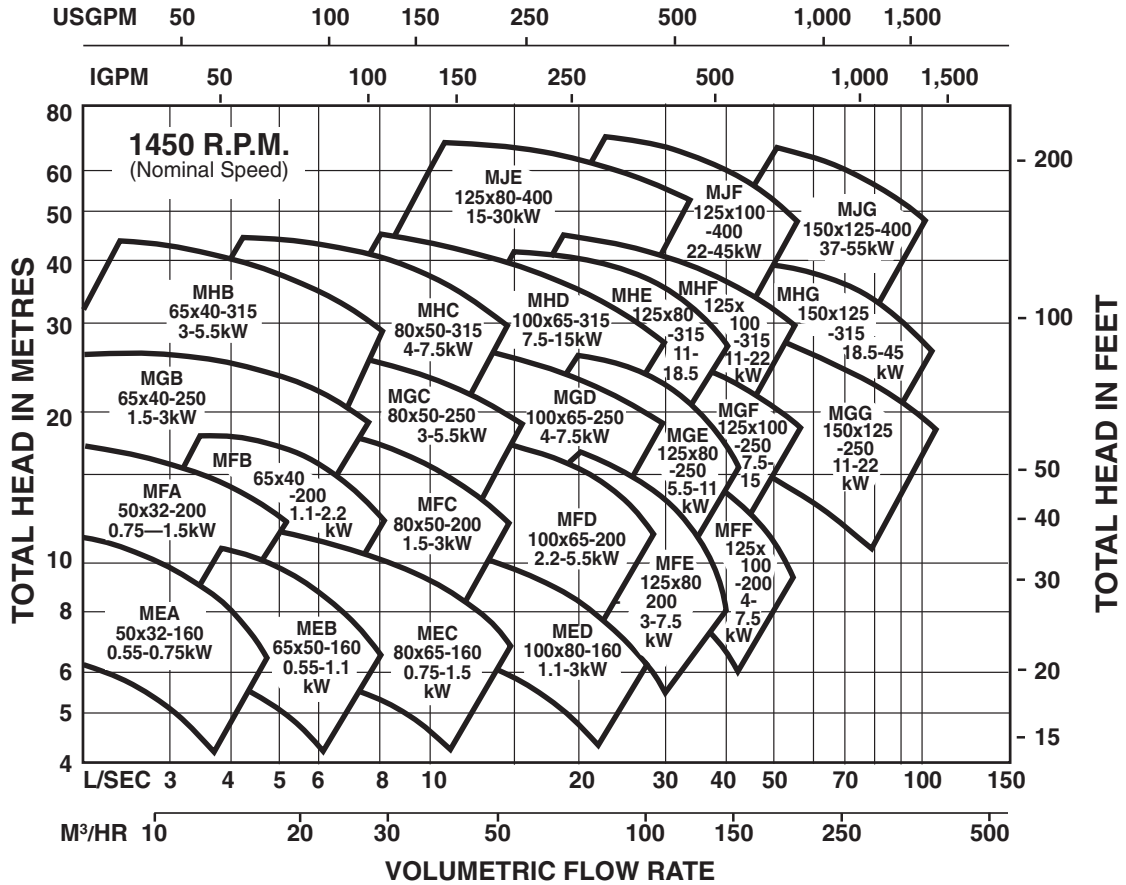
CENTRIFUGAL PUMP PERFORMANCE DATA

SELECTION CHART

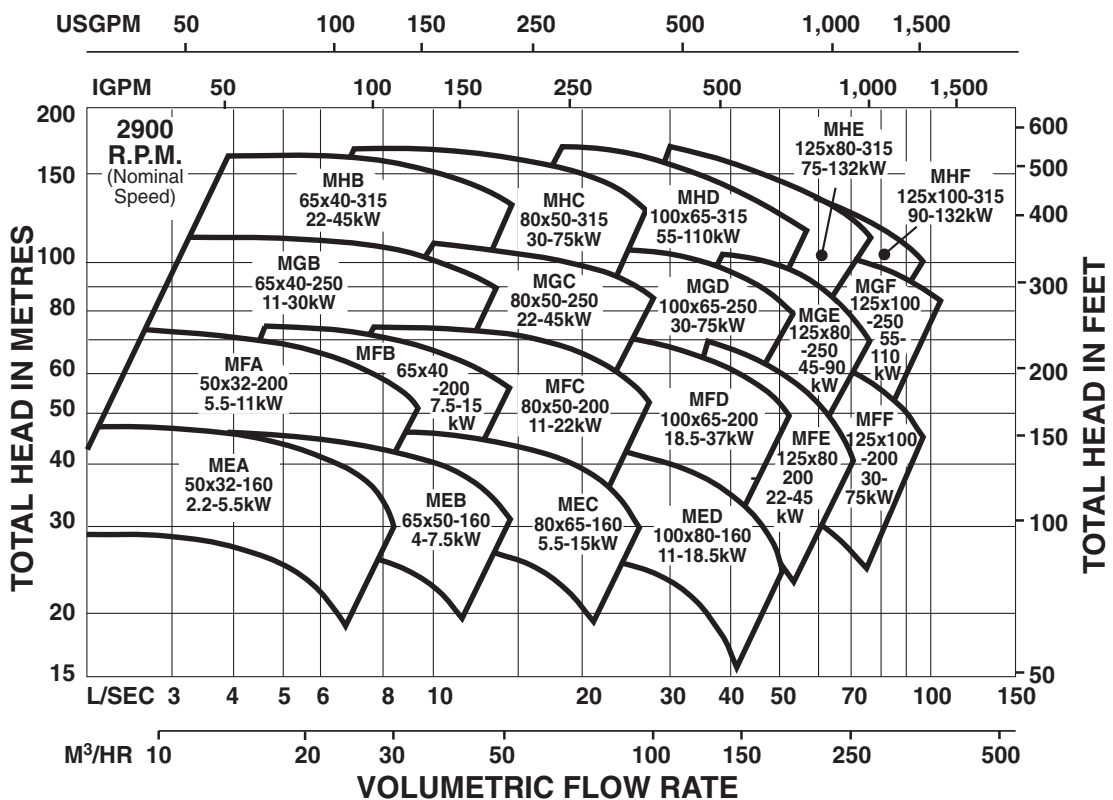
1450 / 2900

R.P.M.

Click in red rectangle for direct link to detailed pump performance curve for selected pump



Click in red rectangle for direct link to detailed pump performance curve for selected pump



Performance to AS2417 Grade 2 for clean, cold water only.

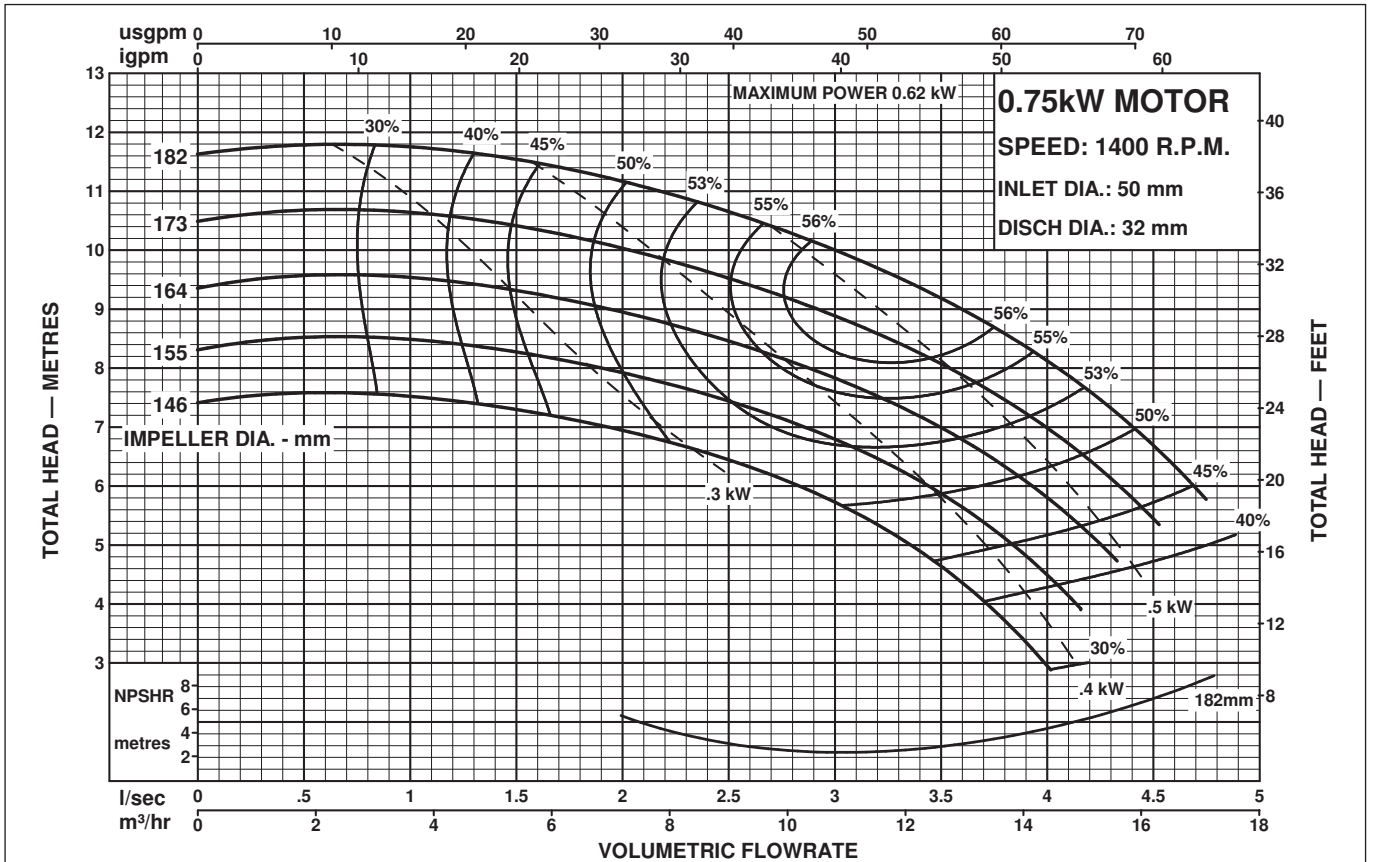
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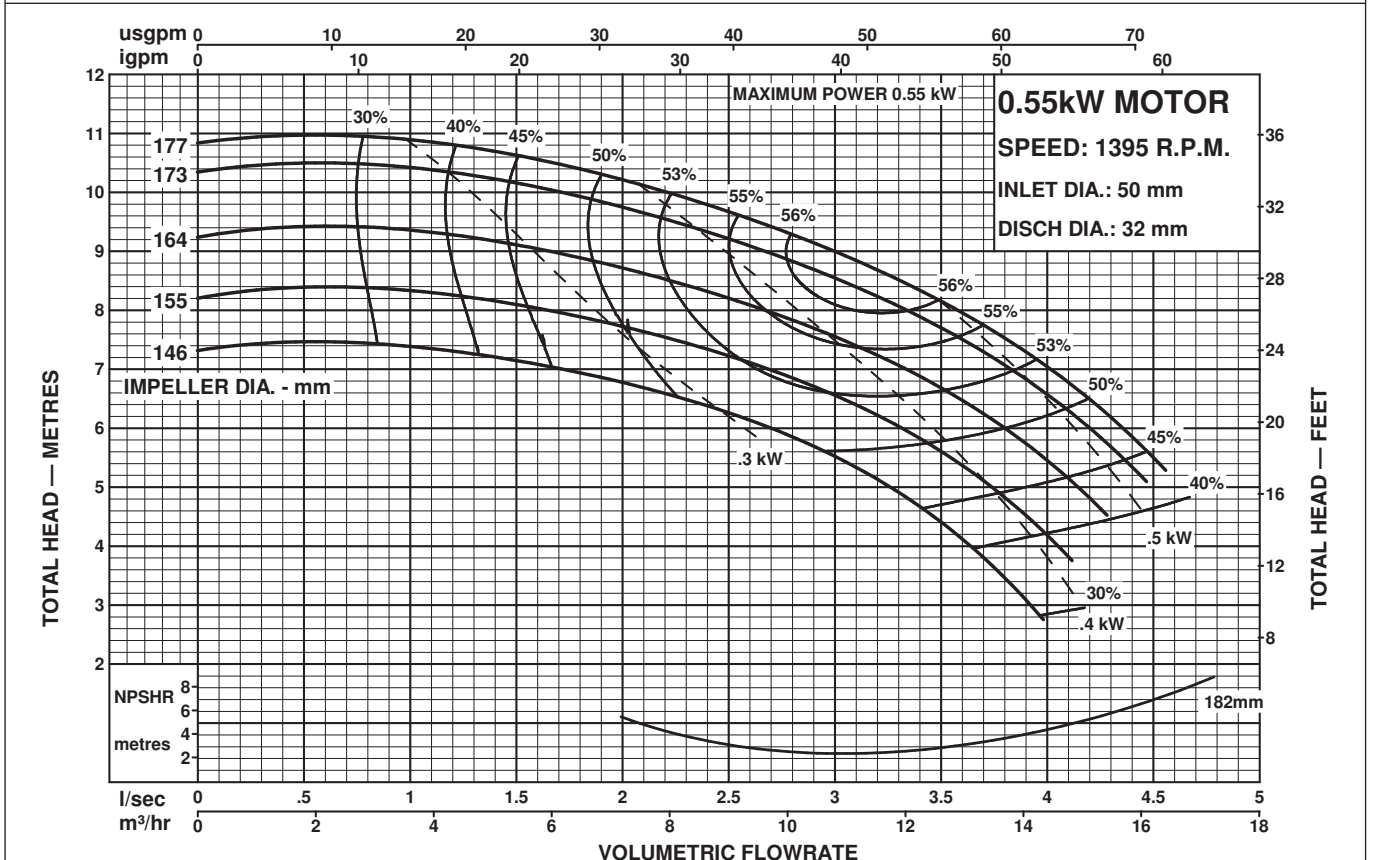
CENTRIFUGAL PUMP PERFORMANCE DATA

50 x 32-160



Performance to AS2417 Grade 2 for clean, cold water only.

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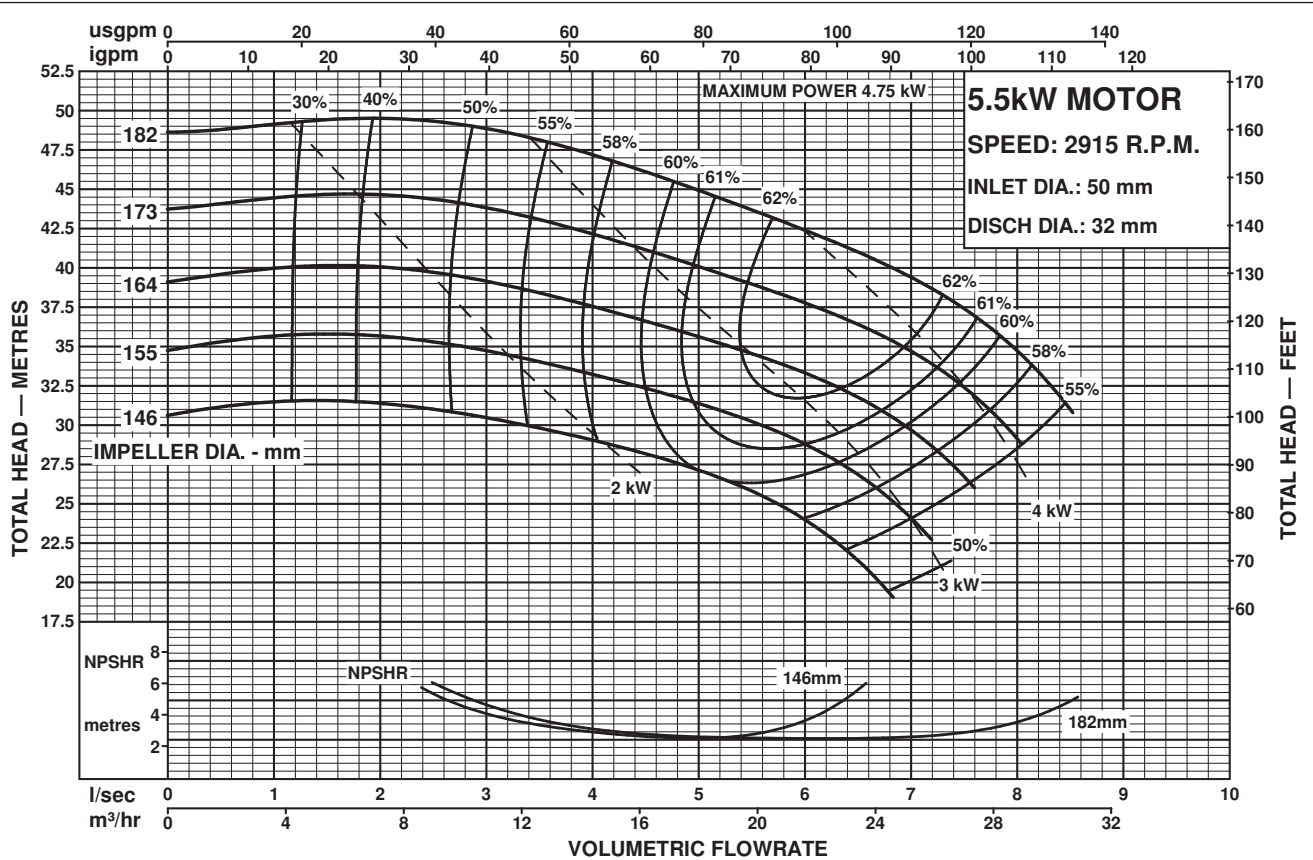
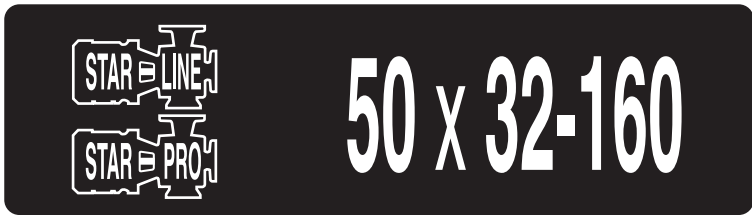


Performance to AS2417 Grade 2 for clean, cold water only.

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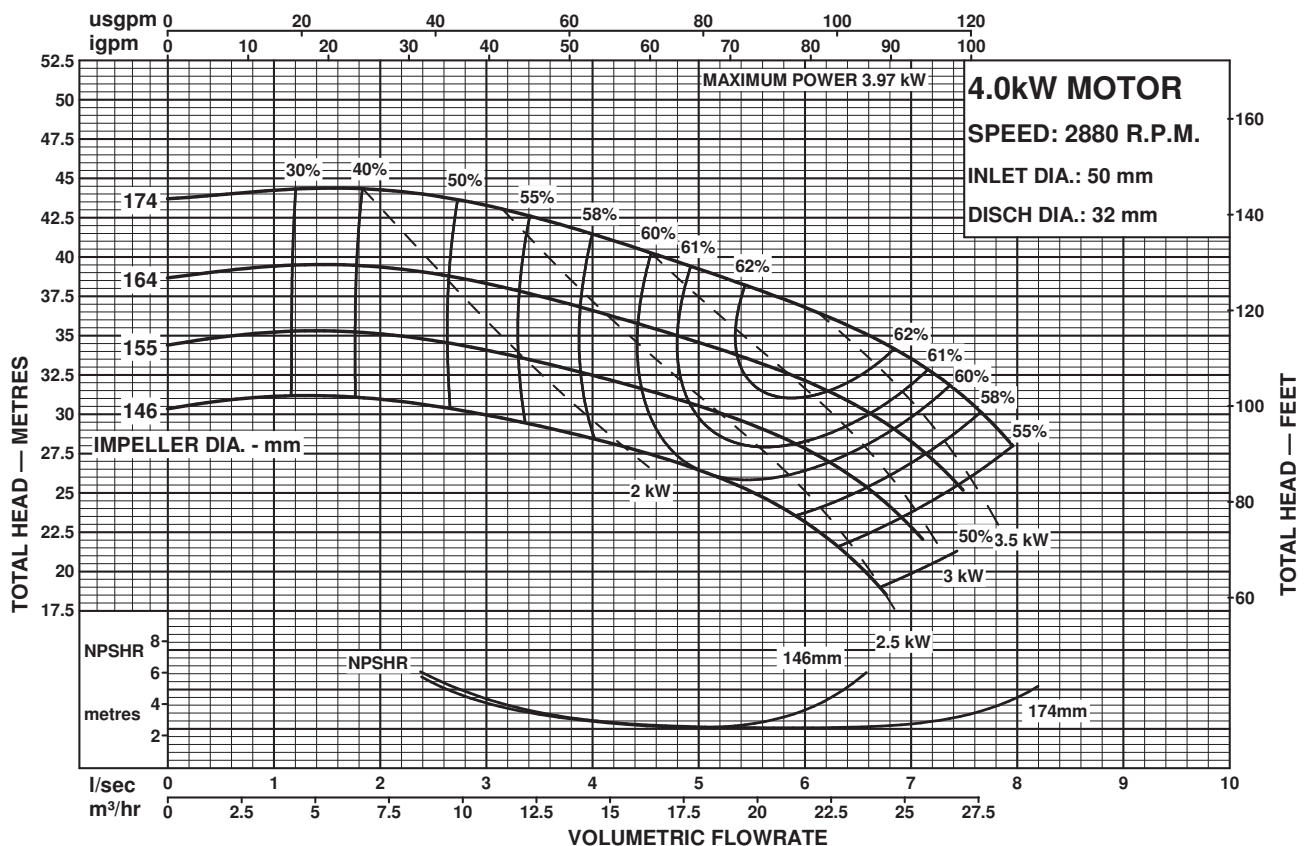


CENTRIFUGAL PUMP PERFORMANCE DATA



Performance to AS2417 Grade 2 for clean, cold water only.

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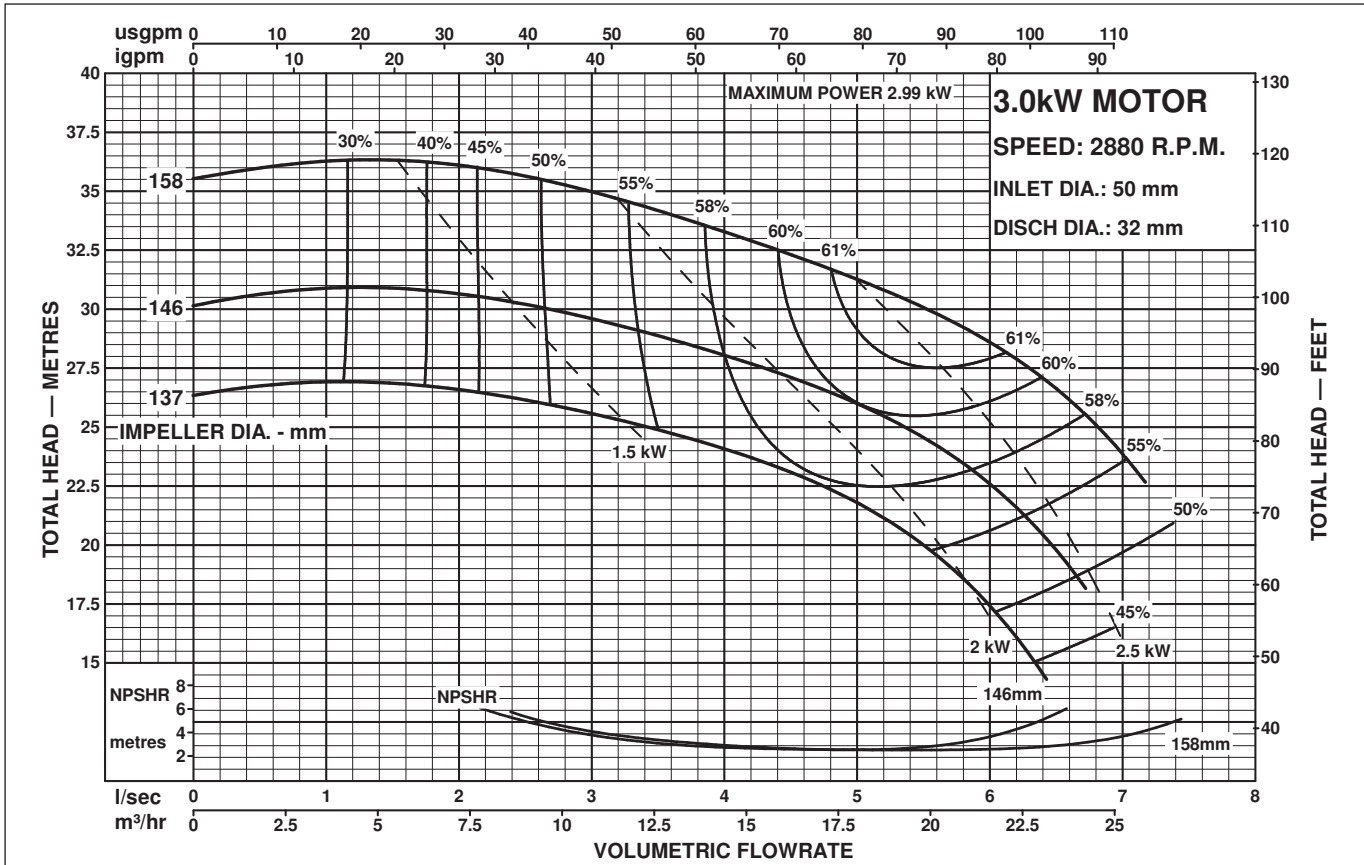
Performance to AS2417 Grade 2 for clean, cold water only.

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50 x 32-160

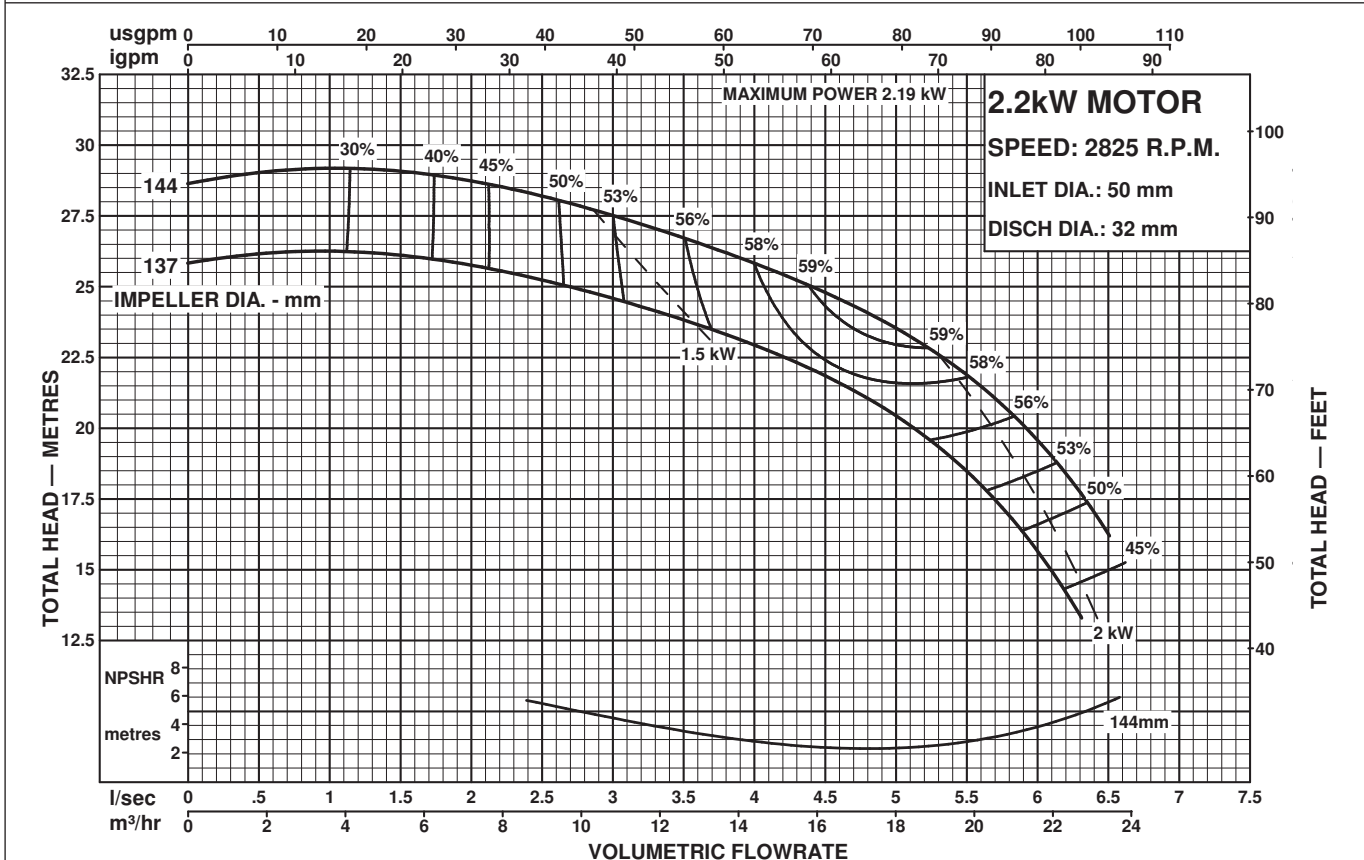


CENTRIFUGAL PUMP PERFORMANCE DATA



Performance to AS2417 Grade 2 for clean, cold water only.

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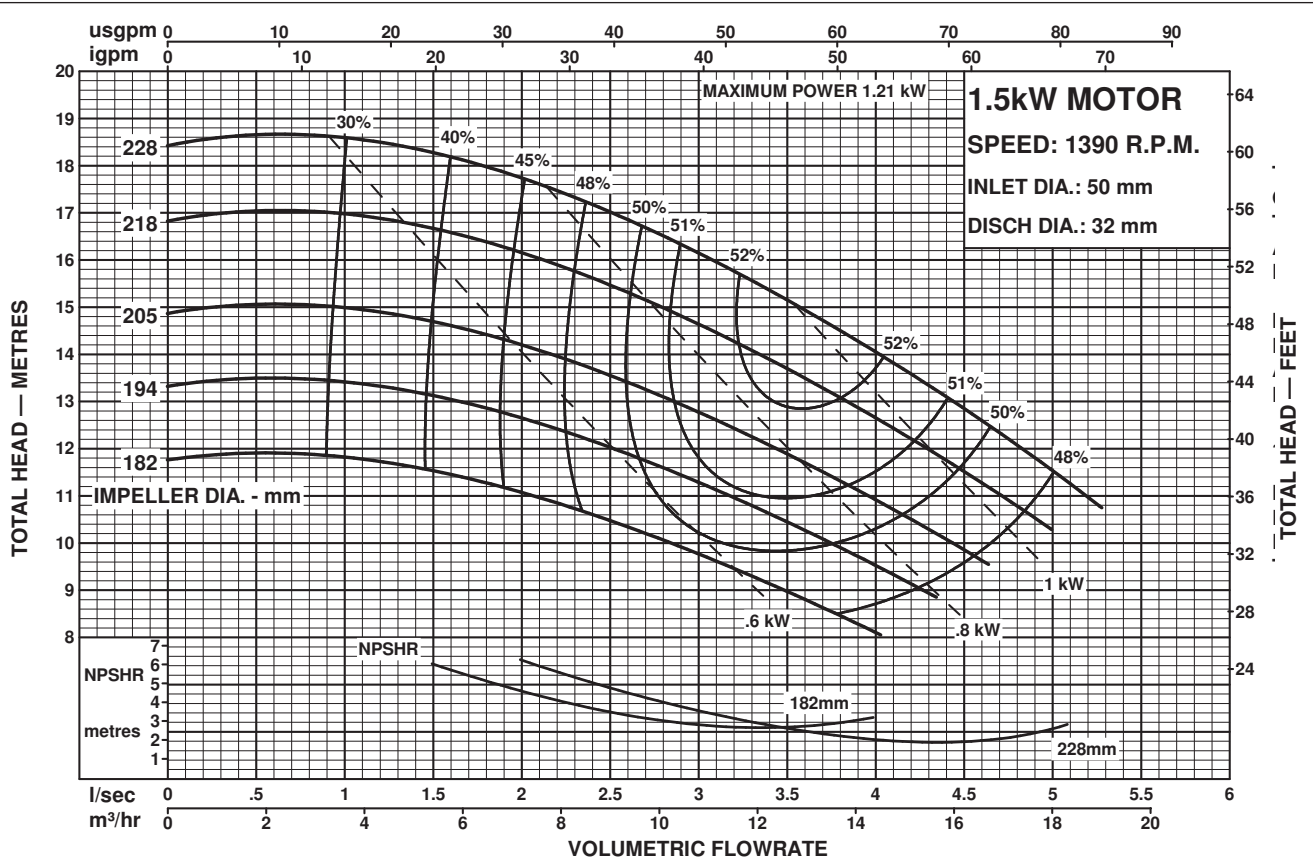
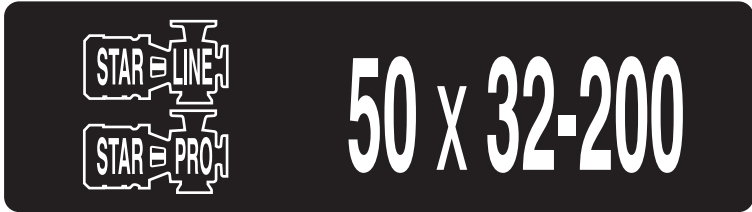


Performance to AS2417 Grade 2 for clean, cold water only.

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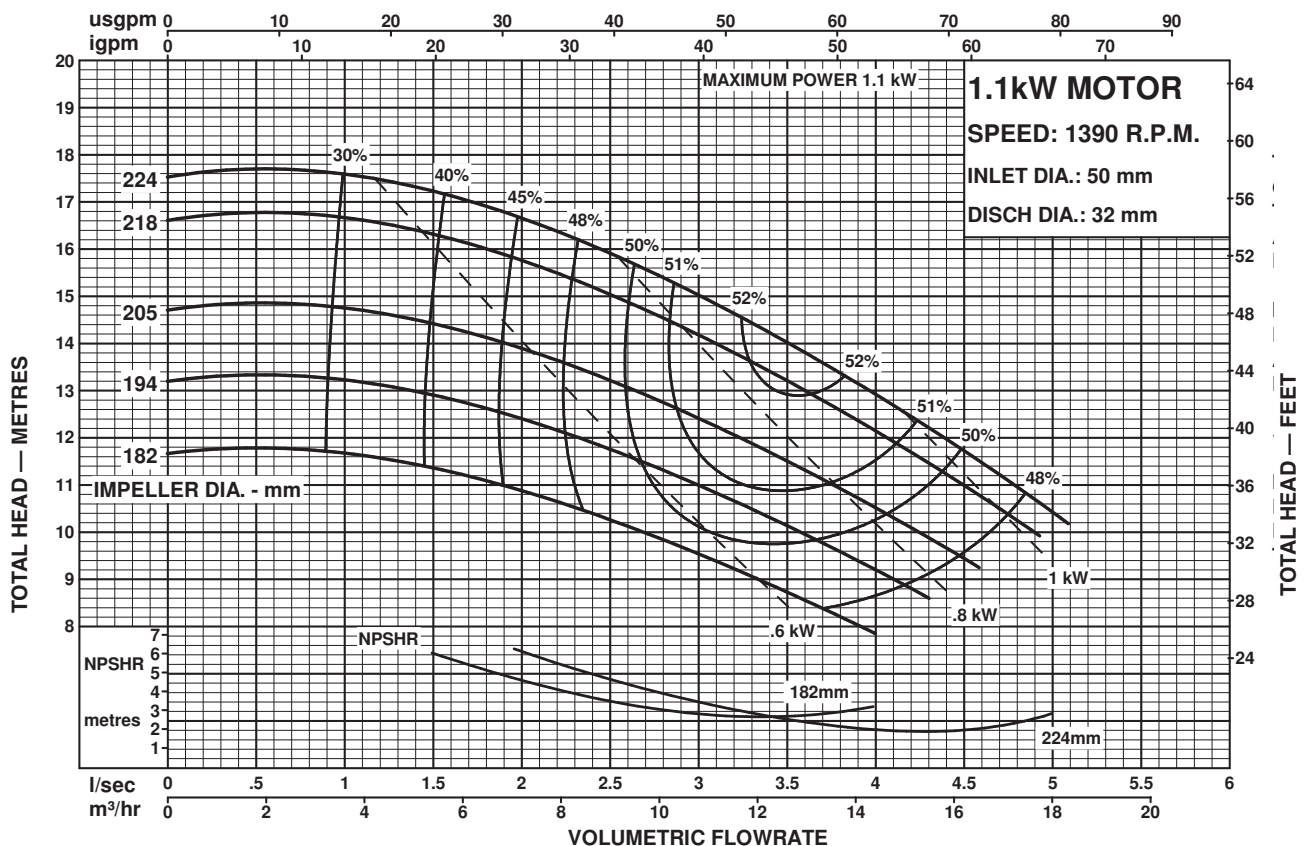


CENTRIFUGAL PUMP PERFORMANCE DATA



Performance to AS2417 Grade 2 for clean, cold water only.

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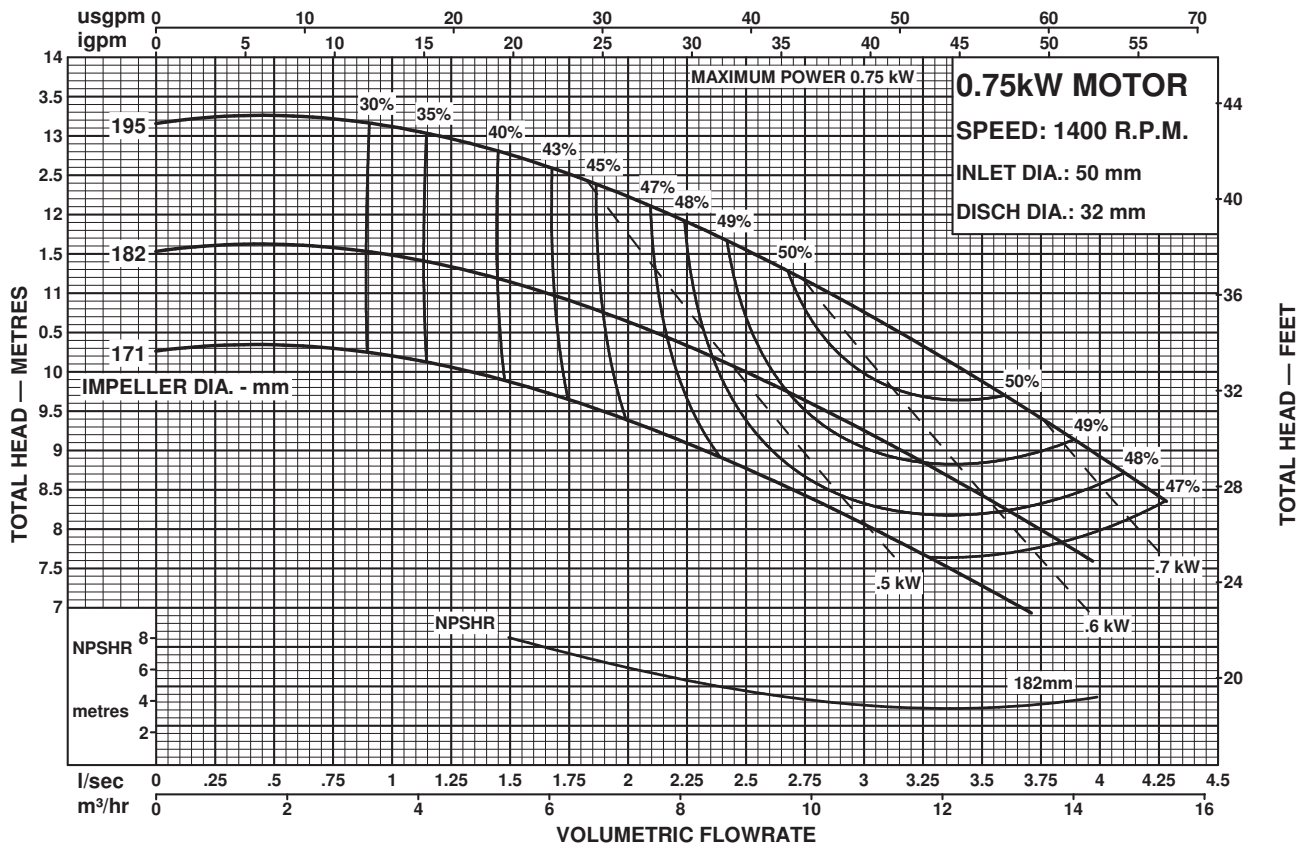
Performance to AS2417 Grade 2 for clean, cold water only.

May 2005

50 x 32-200



CENTRIFUGAL PUMP PERFORMANCE DATA



Performance to AS2417 Grade 2 for clean, cold water only.

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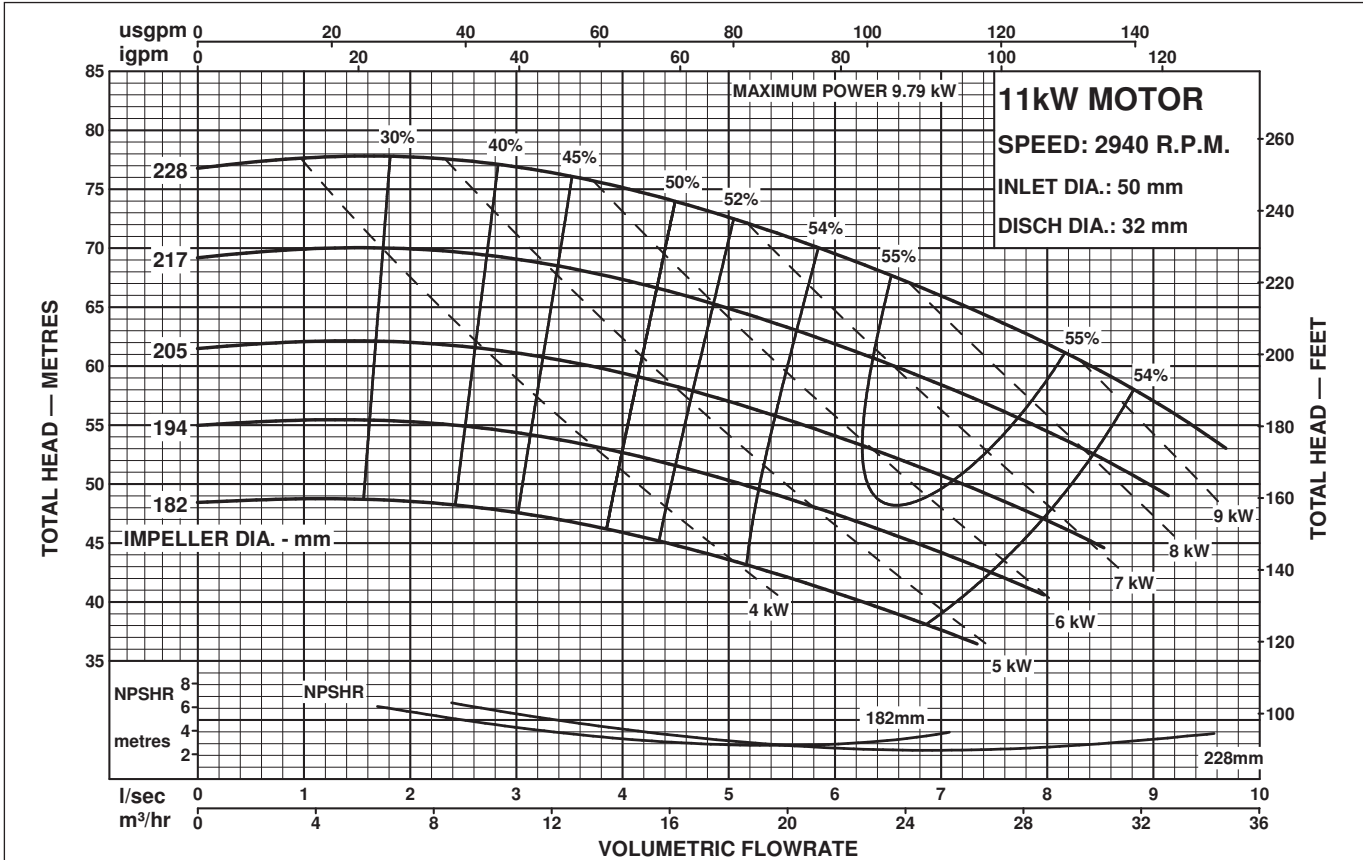
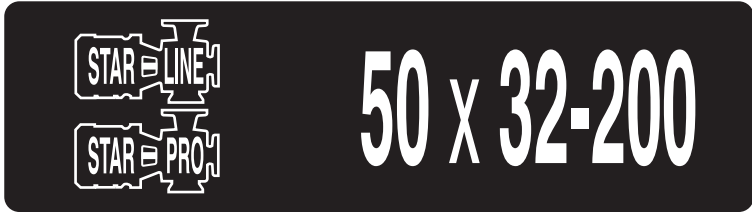
Performance to AS2417 Grade 2 for clean, cold water only.

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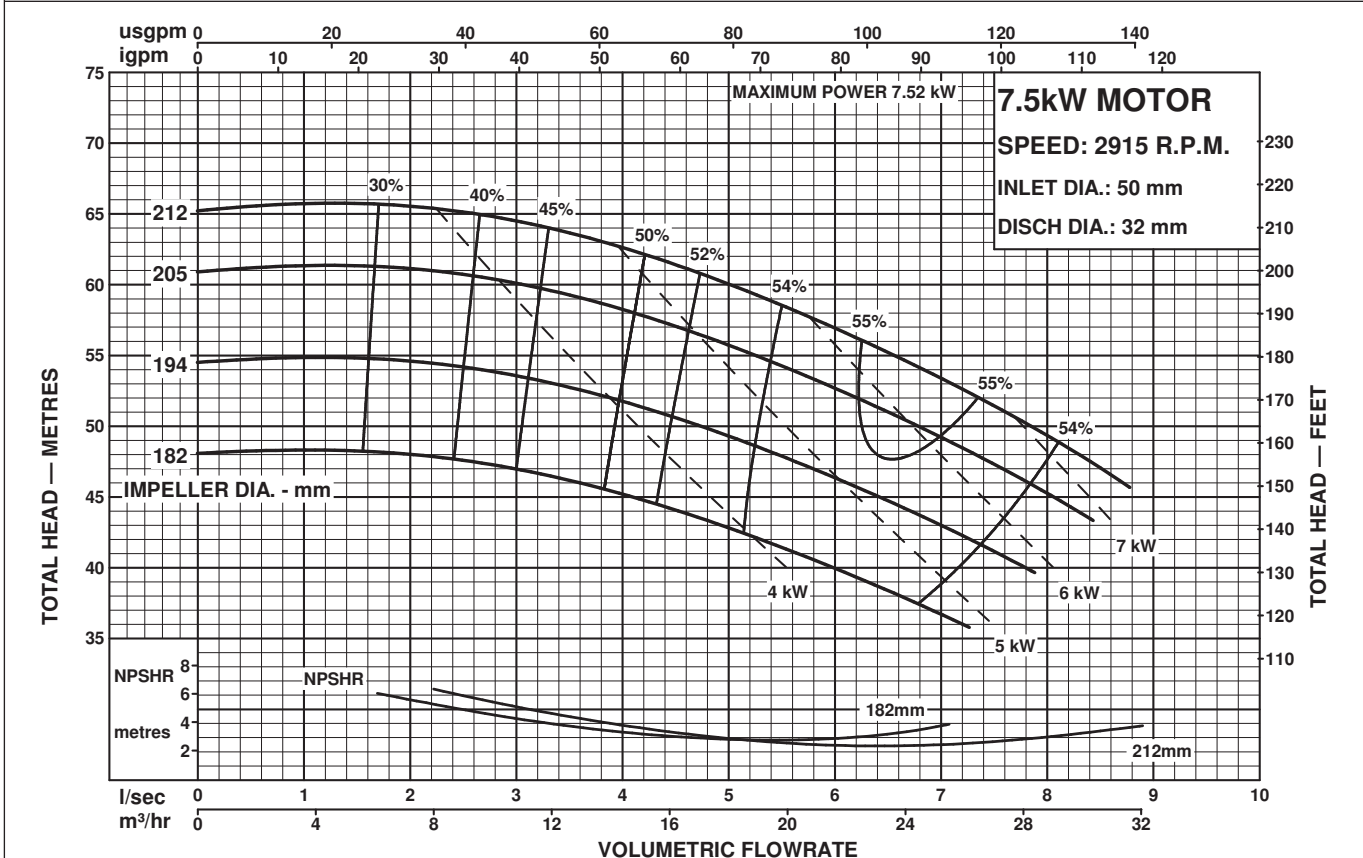


CENTRIFUGAL PUMP PERFORMANCE DATA



Performance to AS2417 Grade 2 for clean, cold water only.

May 2005



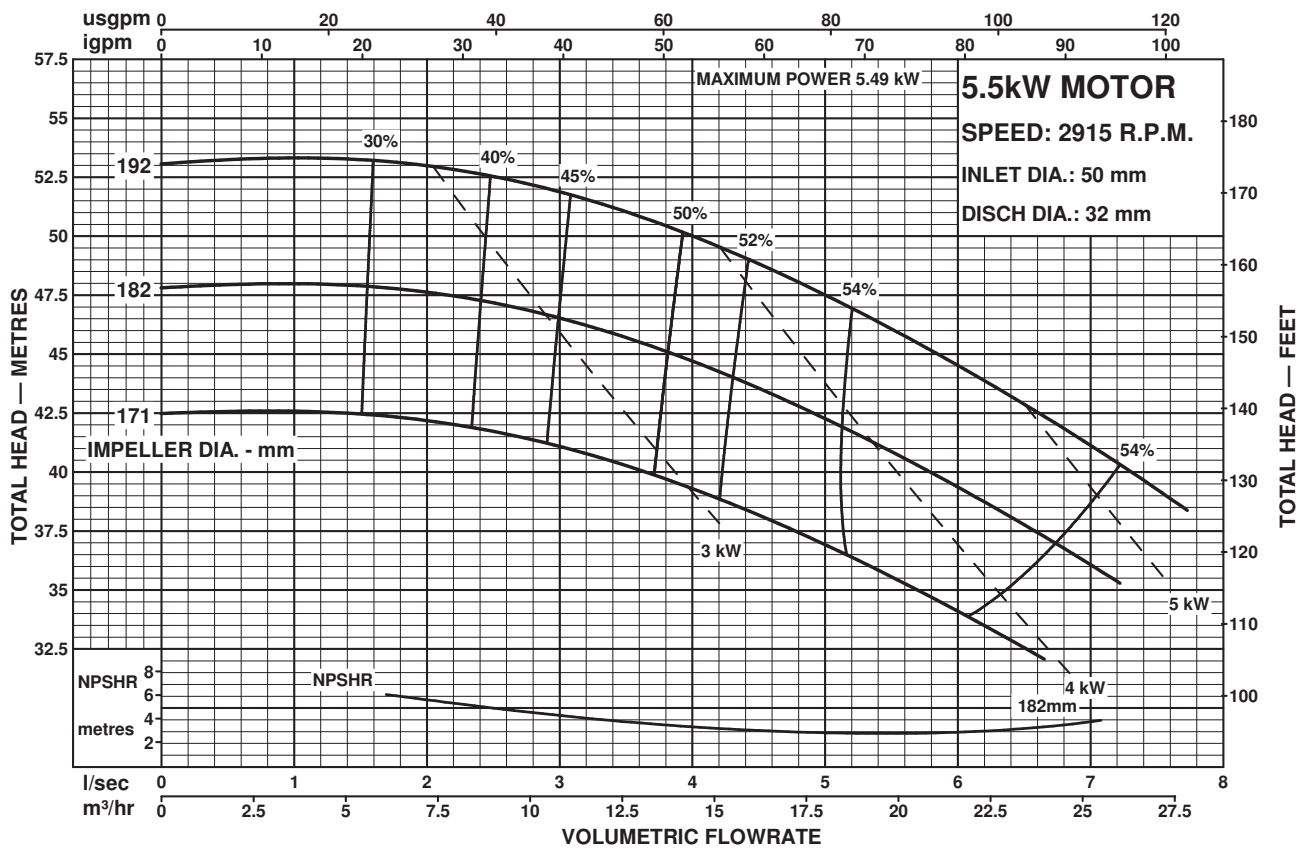
Performance to AS2417 Grade 2 for clean, cold water only.

May 2005

50 x 32-200



CENTRIFUGAL PUMP PERFORMANCE DATA



Performance to AS2417 Grade 2 for clean, cold water only.

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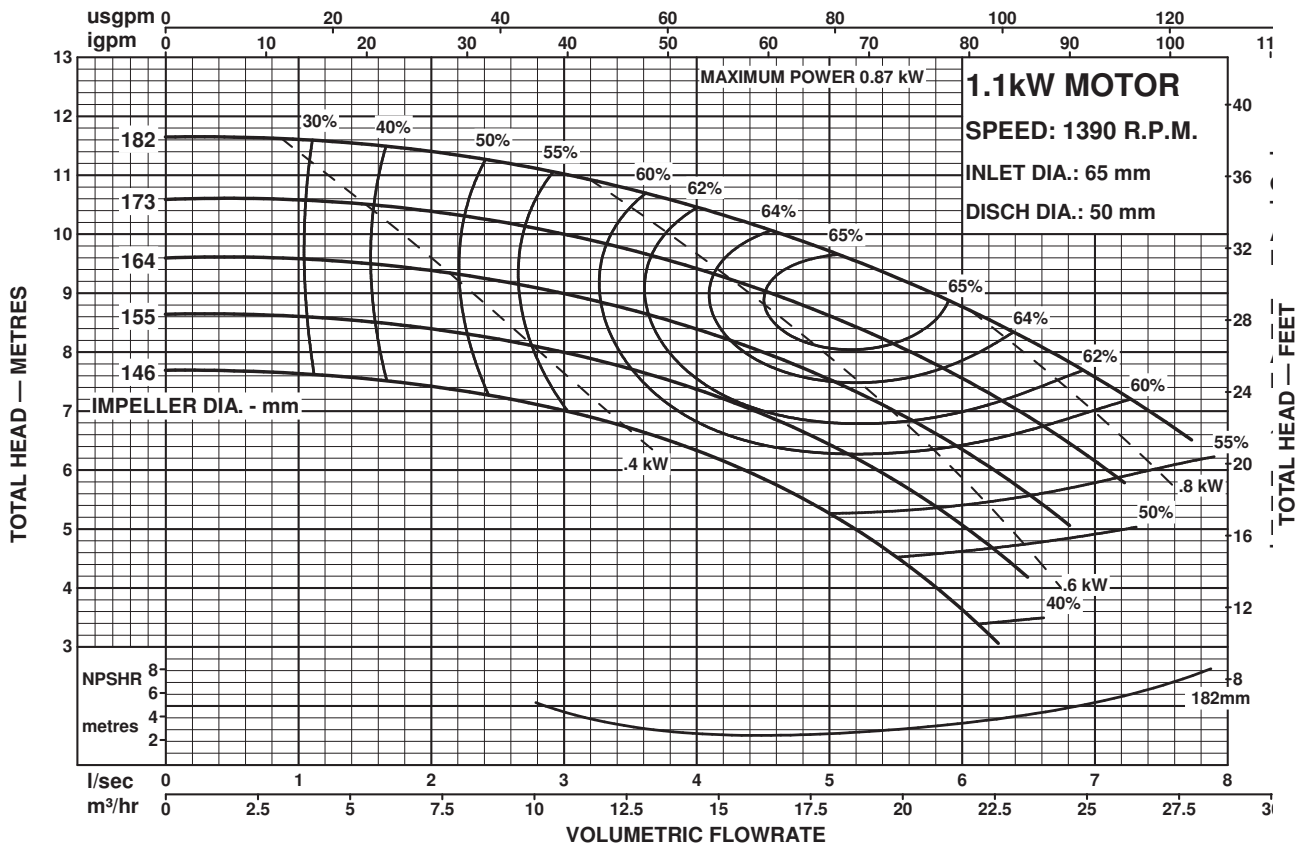
Performance to AS2417 Grade 2 for clean, cold water only.

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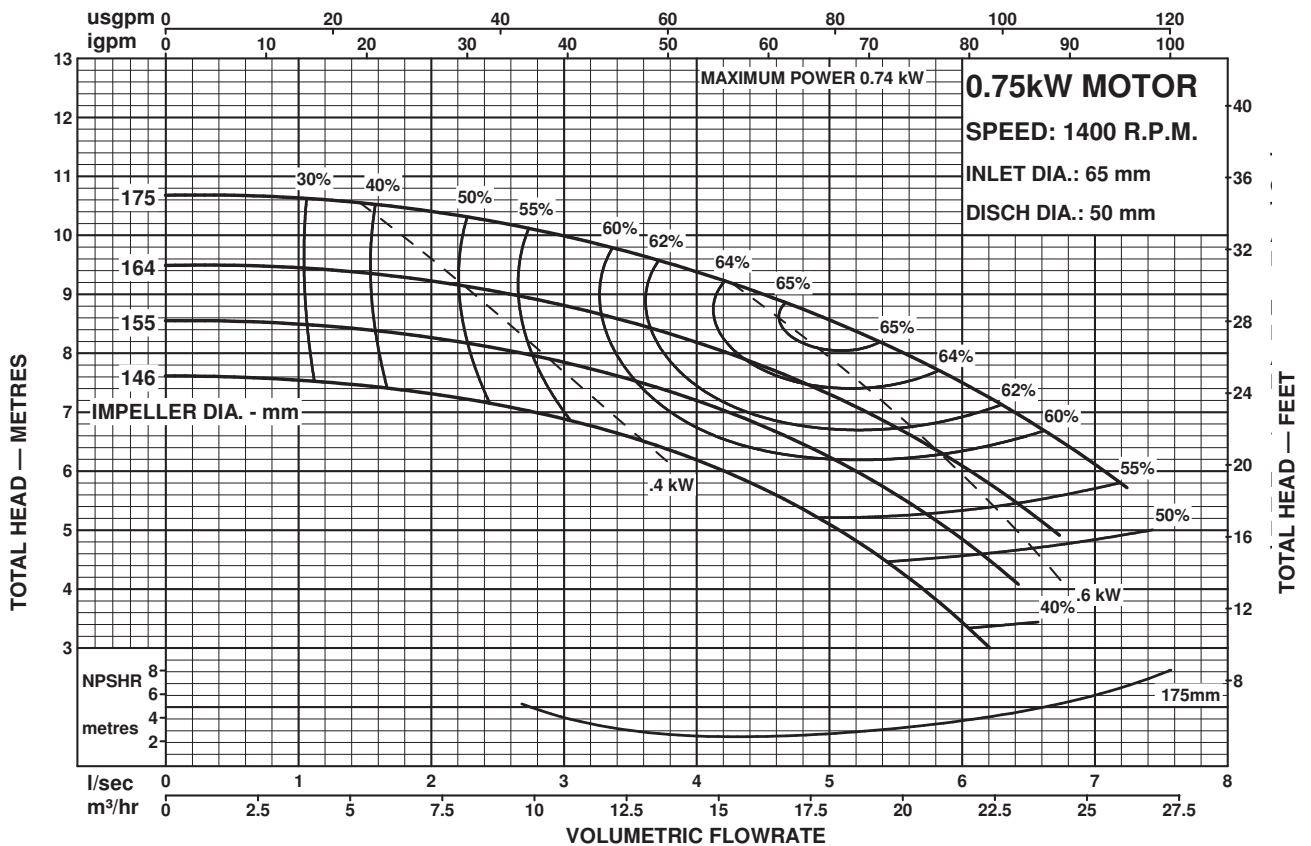


CENTRIFUGAL PUMP PERFORMANCE DATA



Performance to AS2417 Grade 2 for clean, cold water only.

May 2005



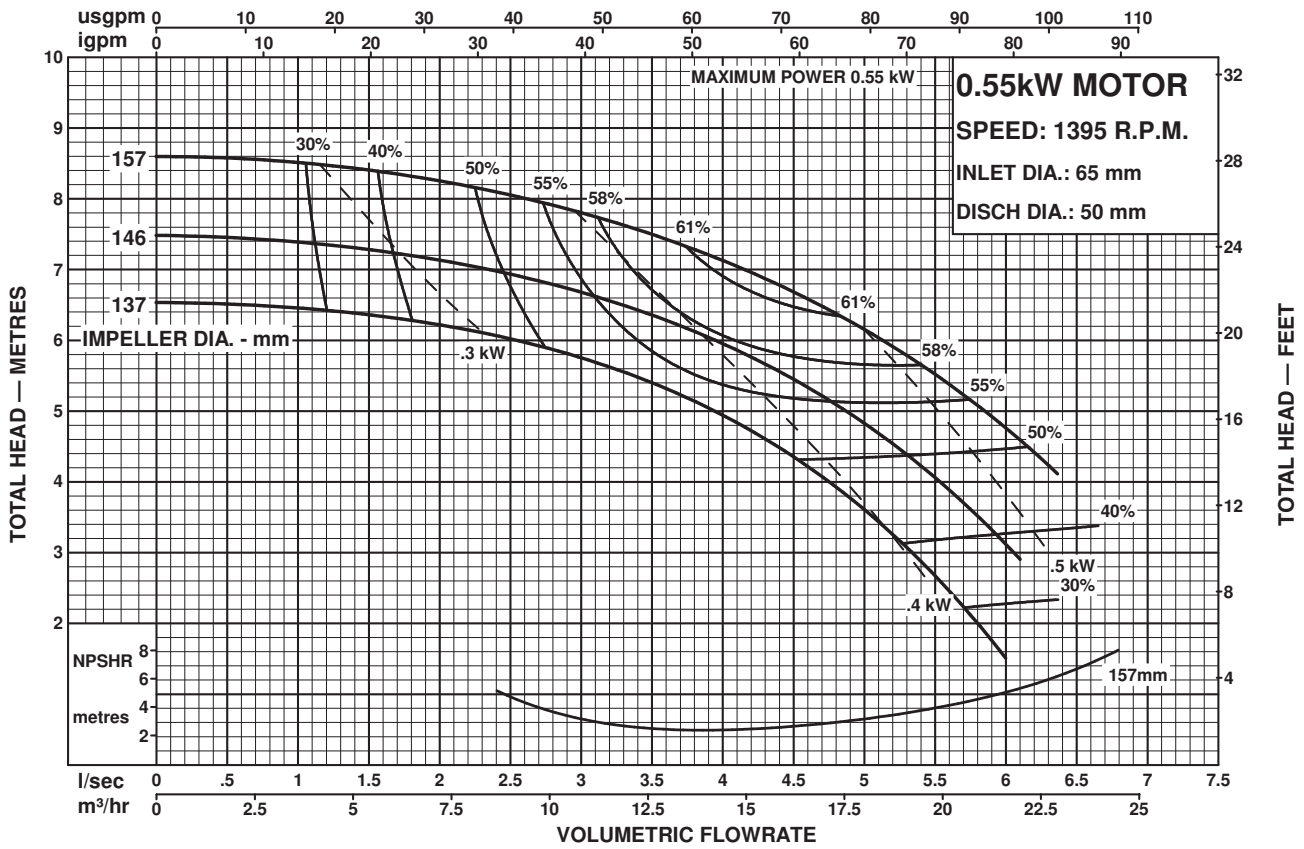
Performance to AS2417 Grade 2 for clean, cold water only.

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65 x 50-160



CENTRIFUGAL PUMP PERFORMANCE DATA



Performance to AS2417 Grade 2 for clean, cold water only.

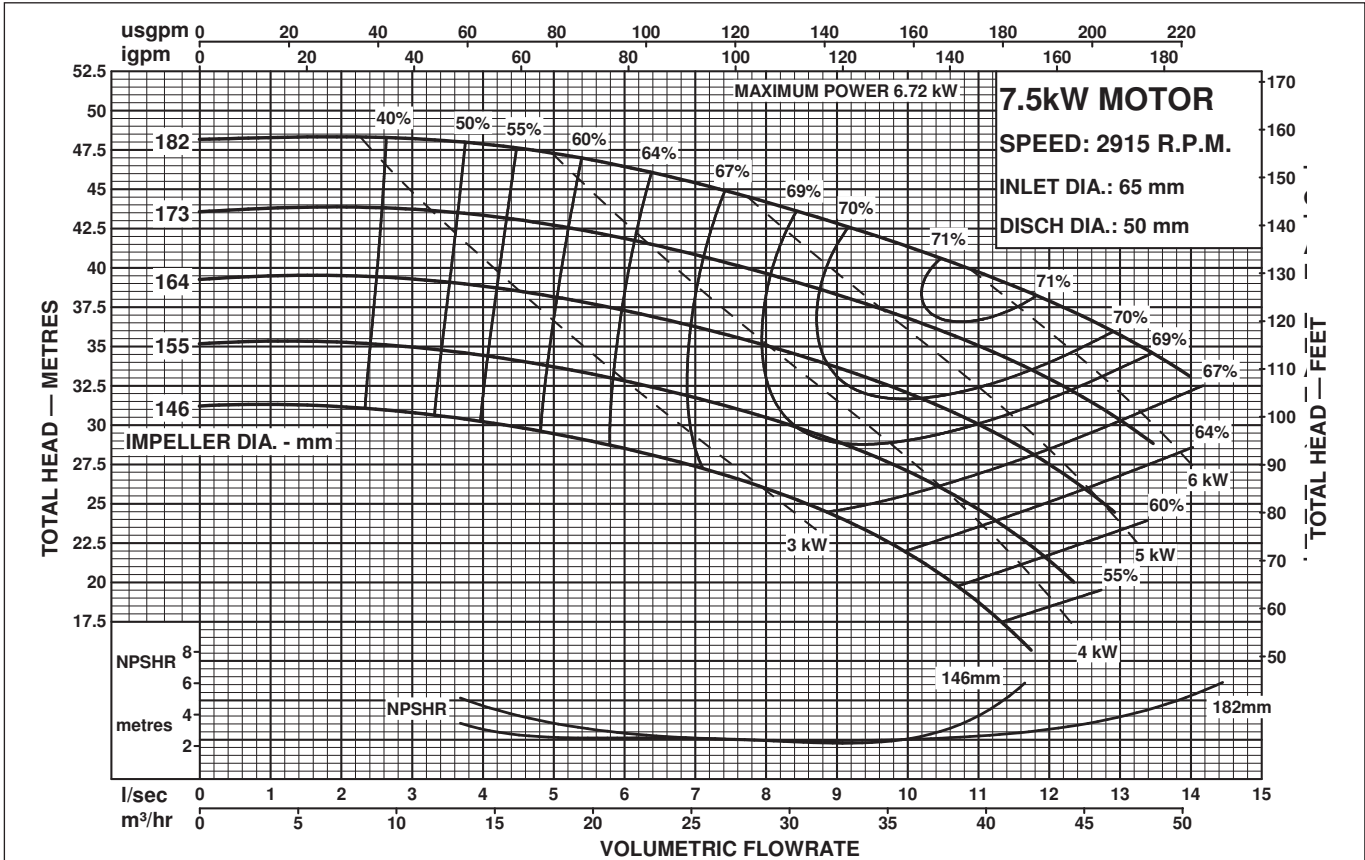
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Performance to AS2417 Grade 2 for clean, cold water only.

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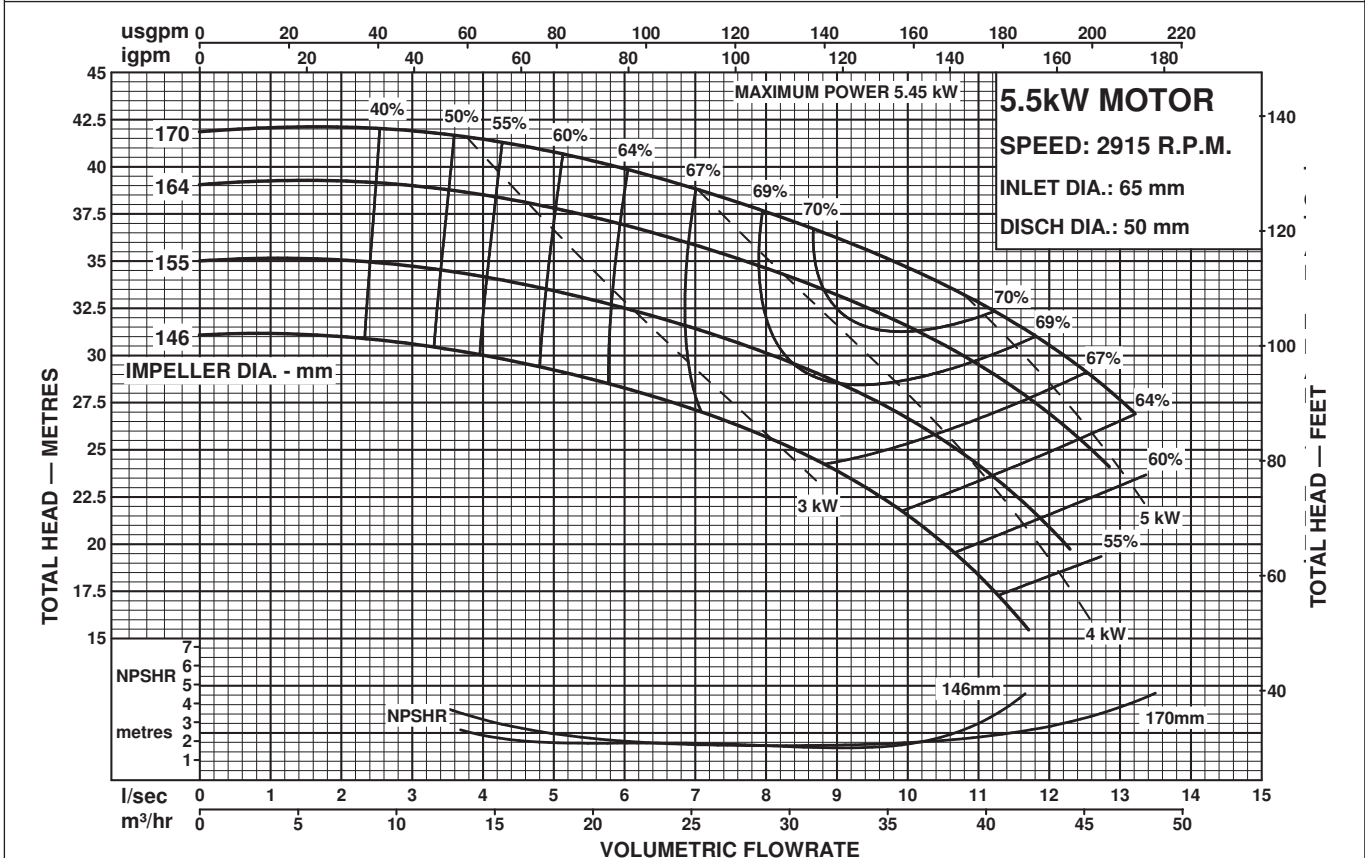


CENTRIFUGAL PUMP PERFORMANCE DATA



Performance to AS2417 Grade 2 for clean, cold water only.

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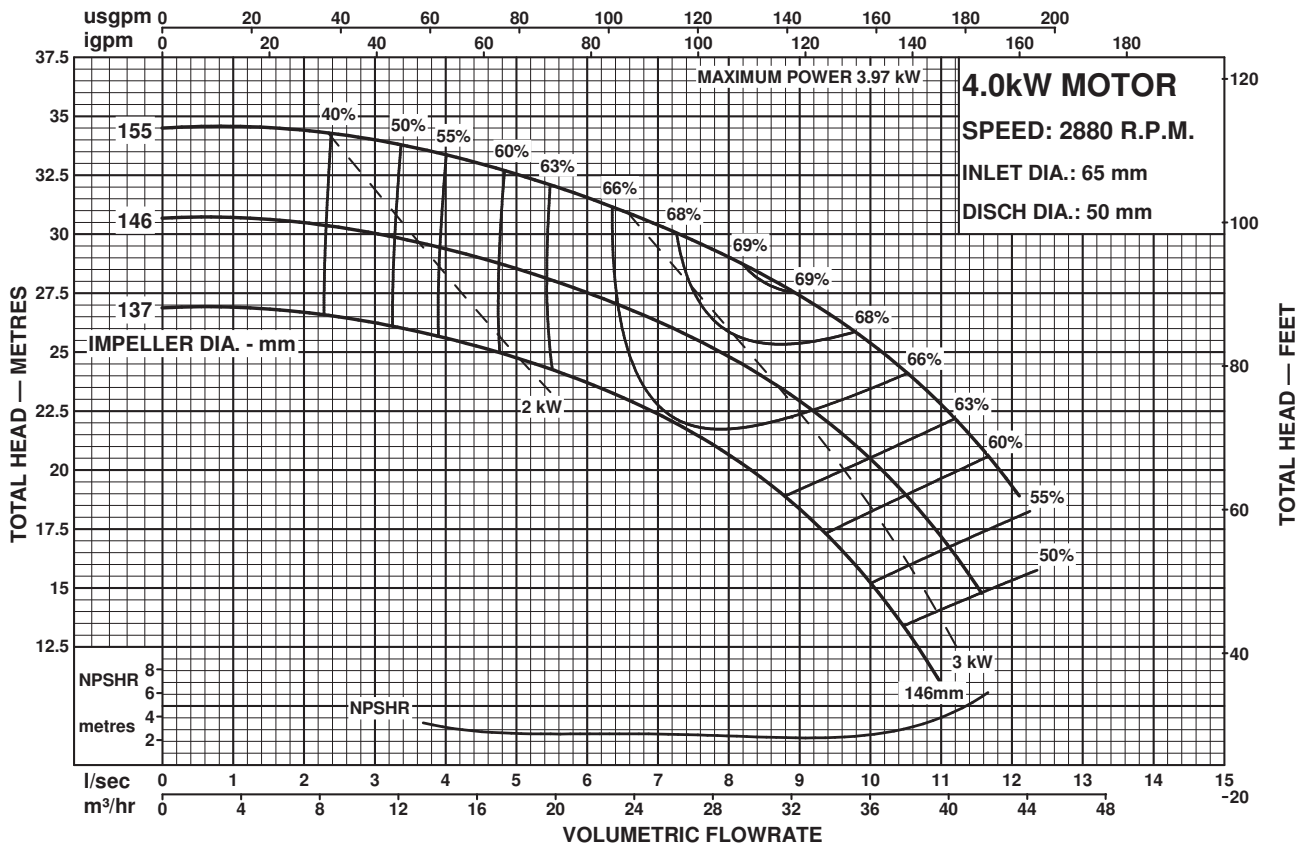
Performance to AS2417 Grade 2 for clean, cold water only.

May 2005

65 x 50-160



CENTRIFUGAL PUMP PERFORMANCE DATA



Performance to AS2417 Grade 2 for clean, cold water only.

May 2005

Performance to AS2417 Grade 2 for clean, cold water only.

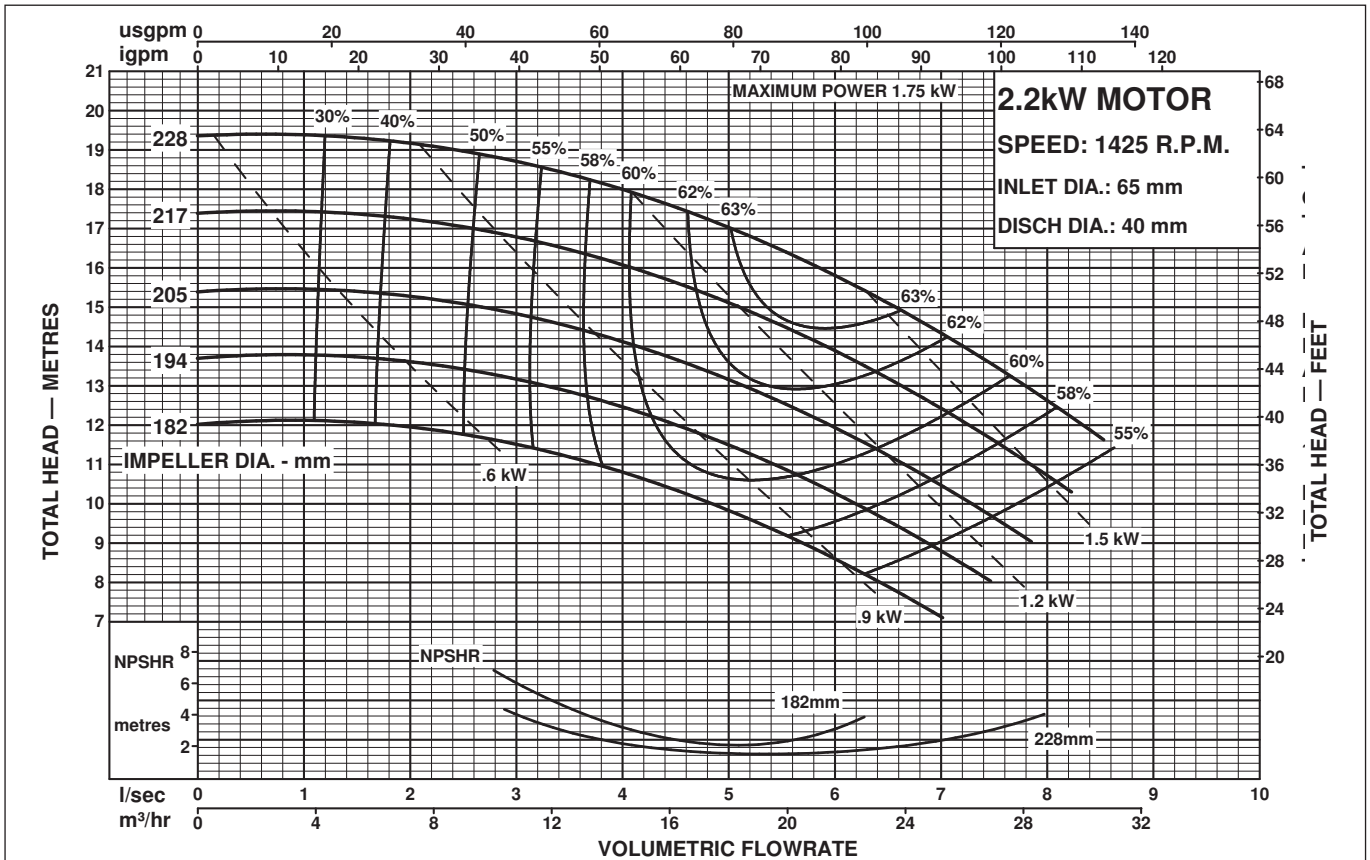
May 2005

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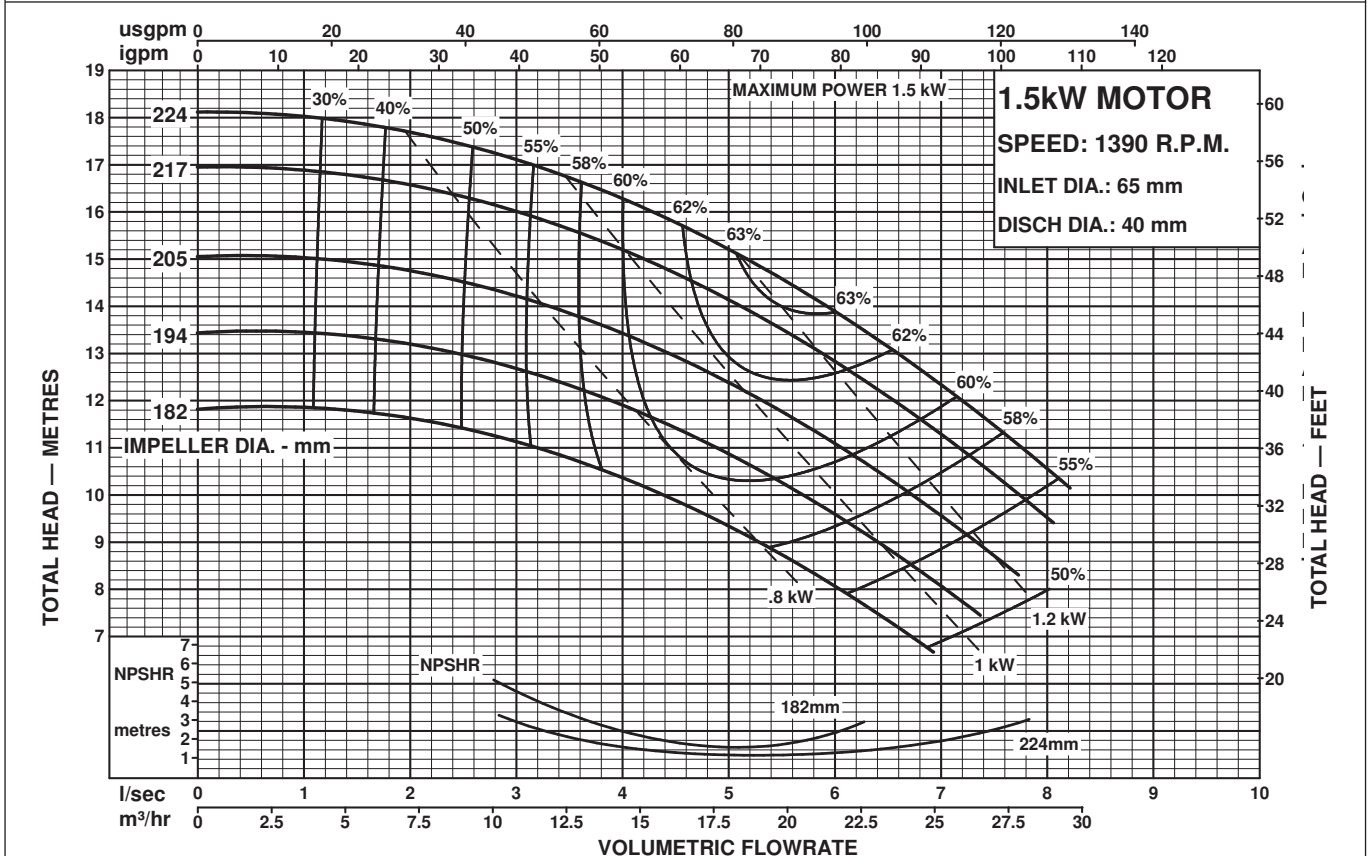
CENTRIFUGAL PUMP PERFORMANCE DATA

65 x 40-200



Performance to AS2417 Grade 2 for clean, cold water only.

May 2005



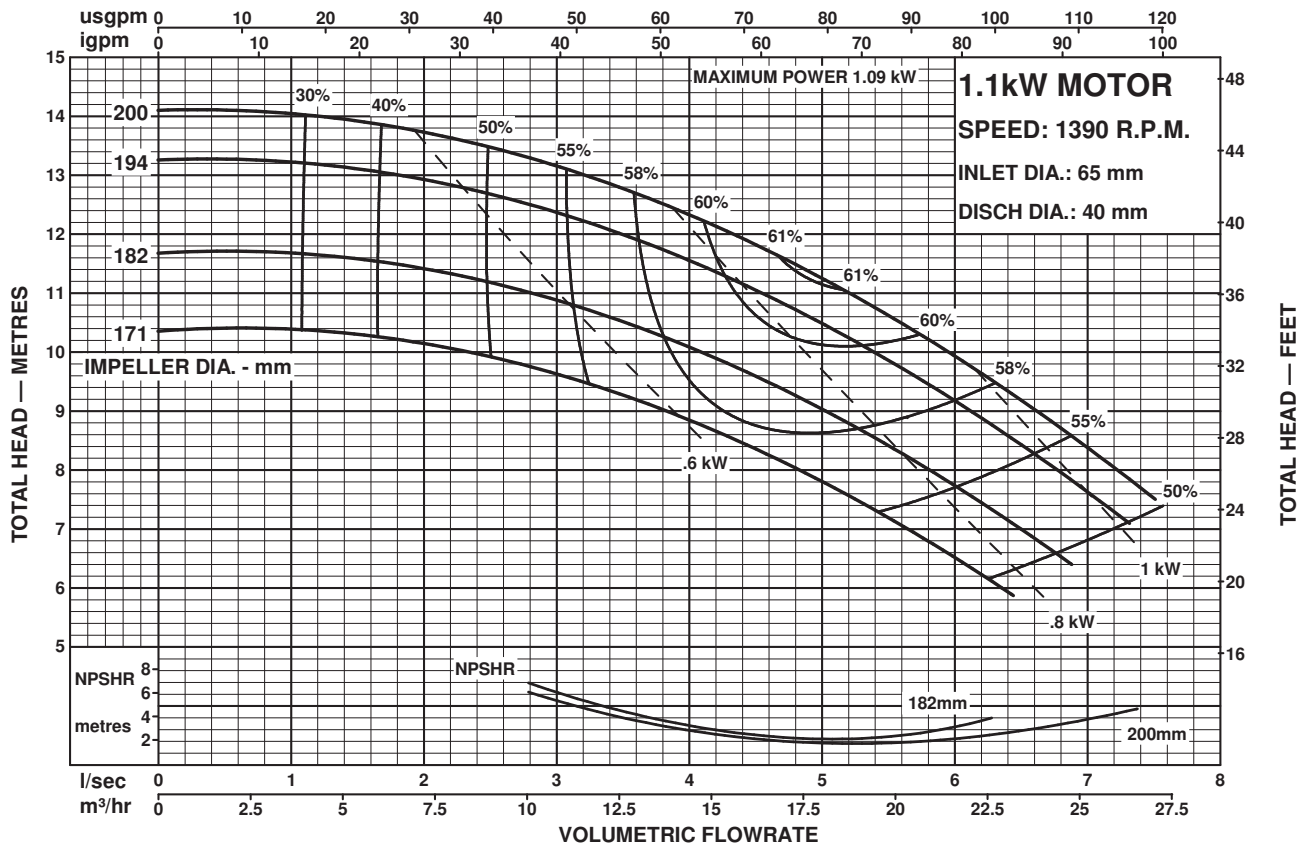
Performance to AS2417 Grade 2 for clean, cold water only.

May 2005

65 x 40-200



CENTRIFUGAL PUMP PERFORMANCE DATA



Performance to AS2417 Grade 2 for clean, cold water only.

May 2005

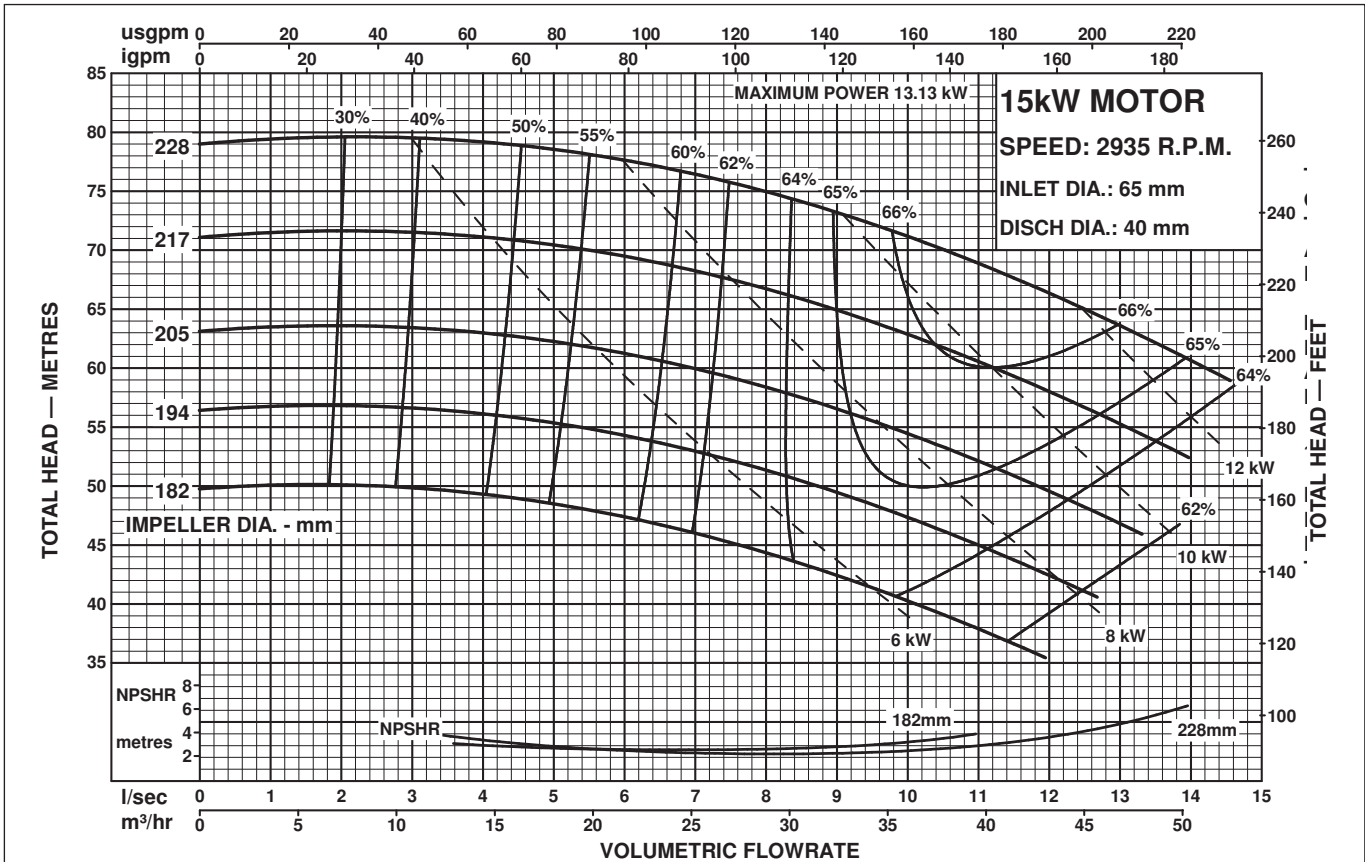
Performance to AS2417 Grade 2 for clean, cold water only.

May 2005



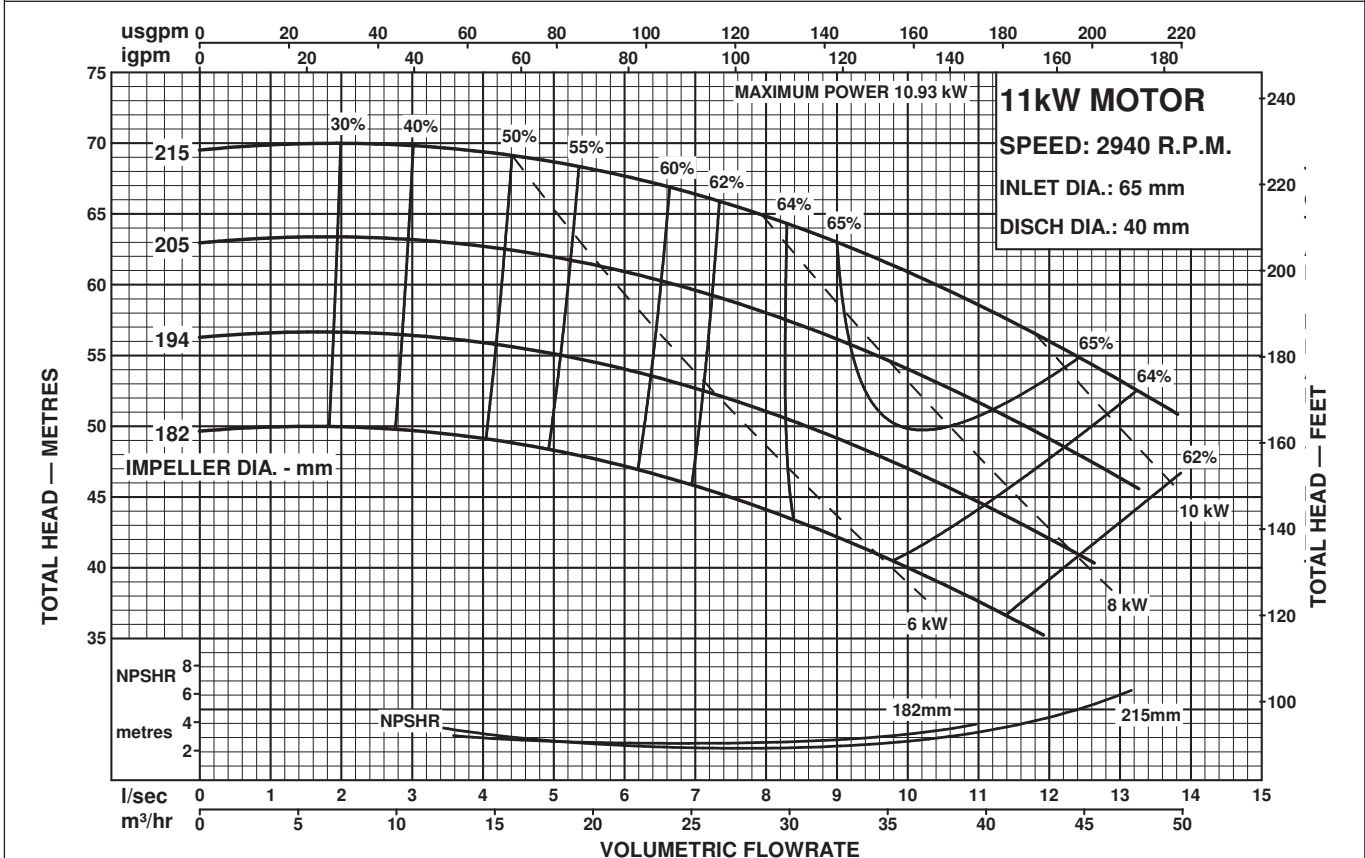
CENTRIFUGAL PUMP PERFORMANCE DATA

65 x 40-200



Performance to AS2417 Grade 2 for clean, cold water only.

May 2005



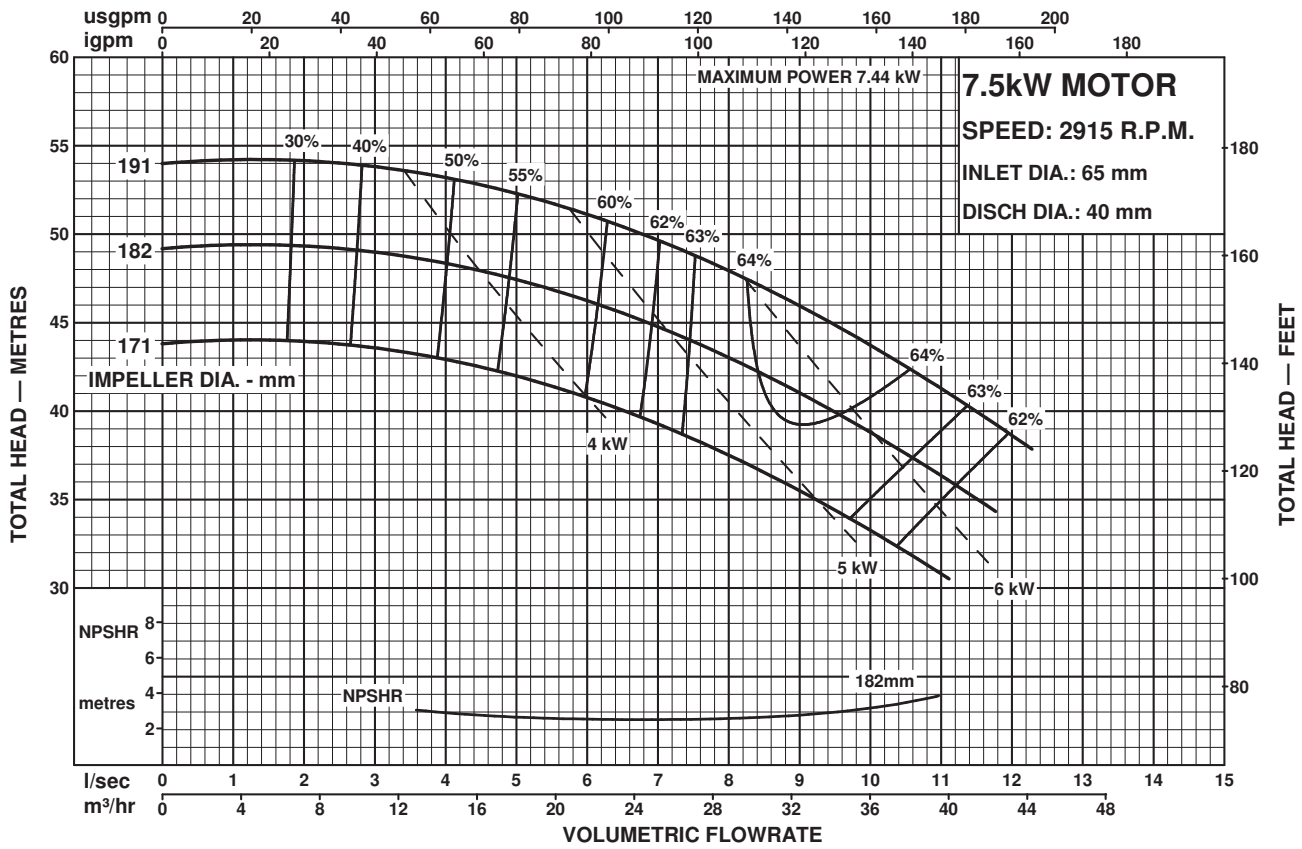
Performance to AS2417 Grade 2 for clean, cold water only.

May 2005

65 x 40-200



CENTRIFUGAL PUMP PERFORMANCE DATA



Performance to AS2417 Grade 2 for clean, cold water only.

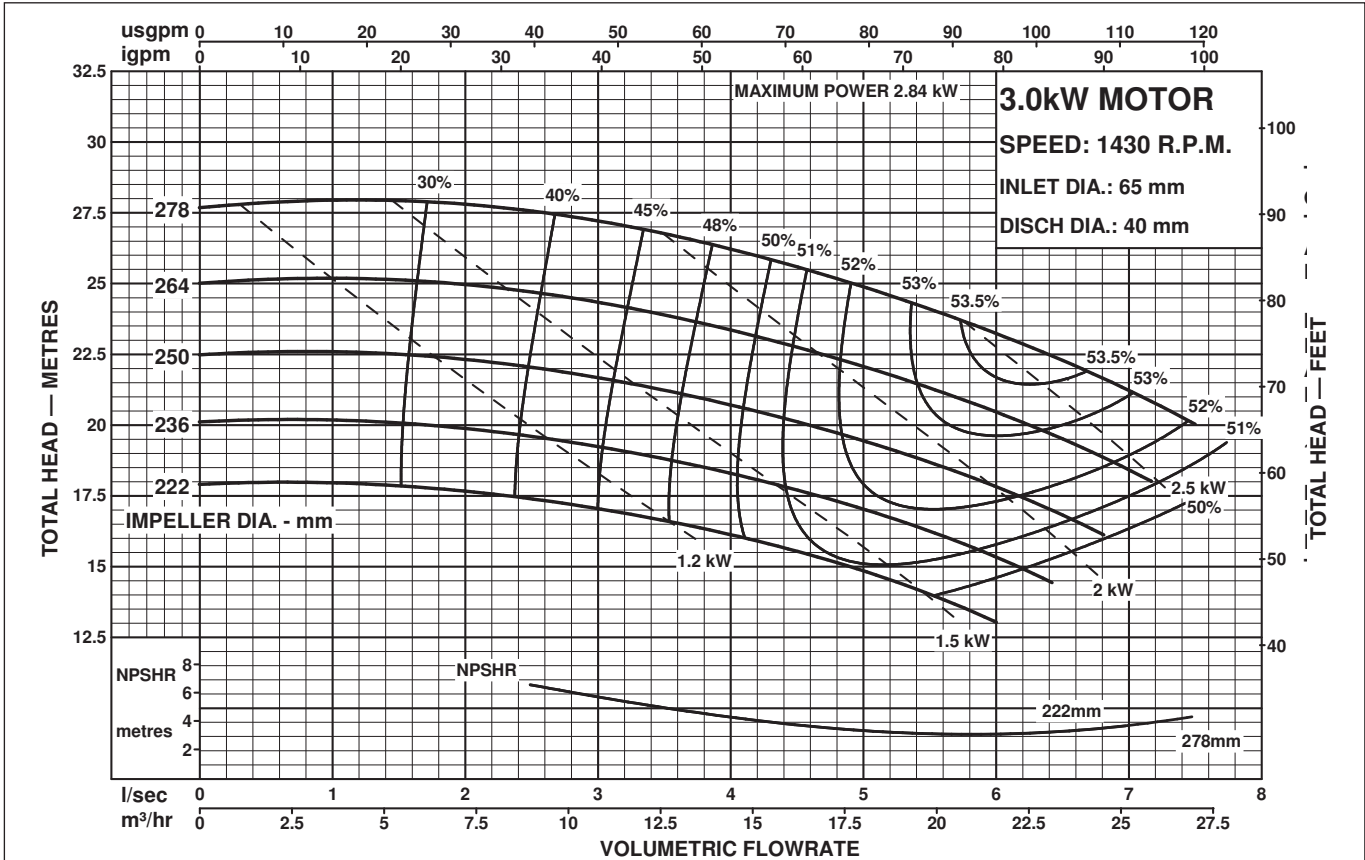
May 2005

Performance to AS2417 Grade 2 for clean, cold water only.

May 2005

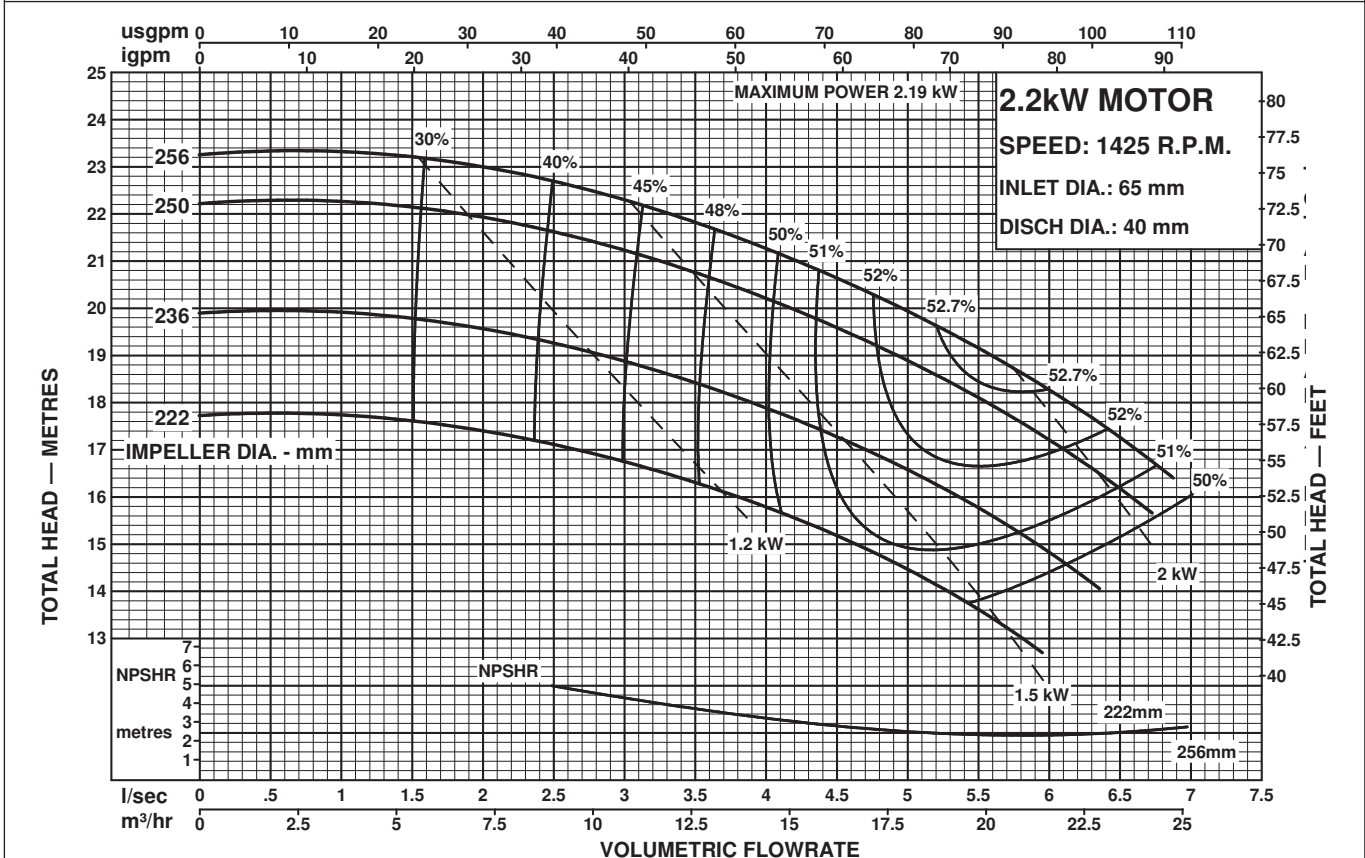


CENTRIFUGAL PUMP PERFORMANCE DATA



Performance to AS2417 Grade 2 for clean, cold water only.

May 2005



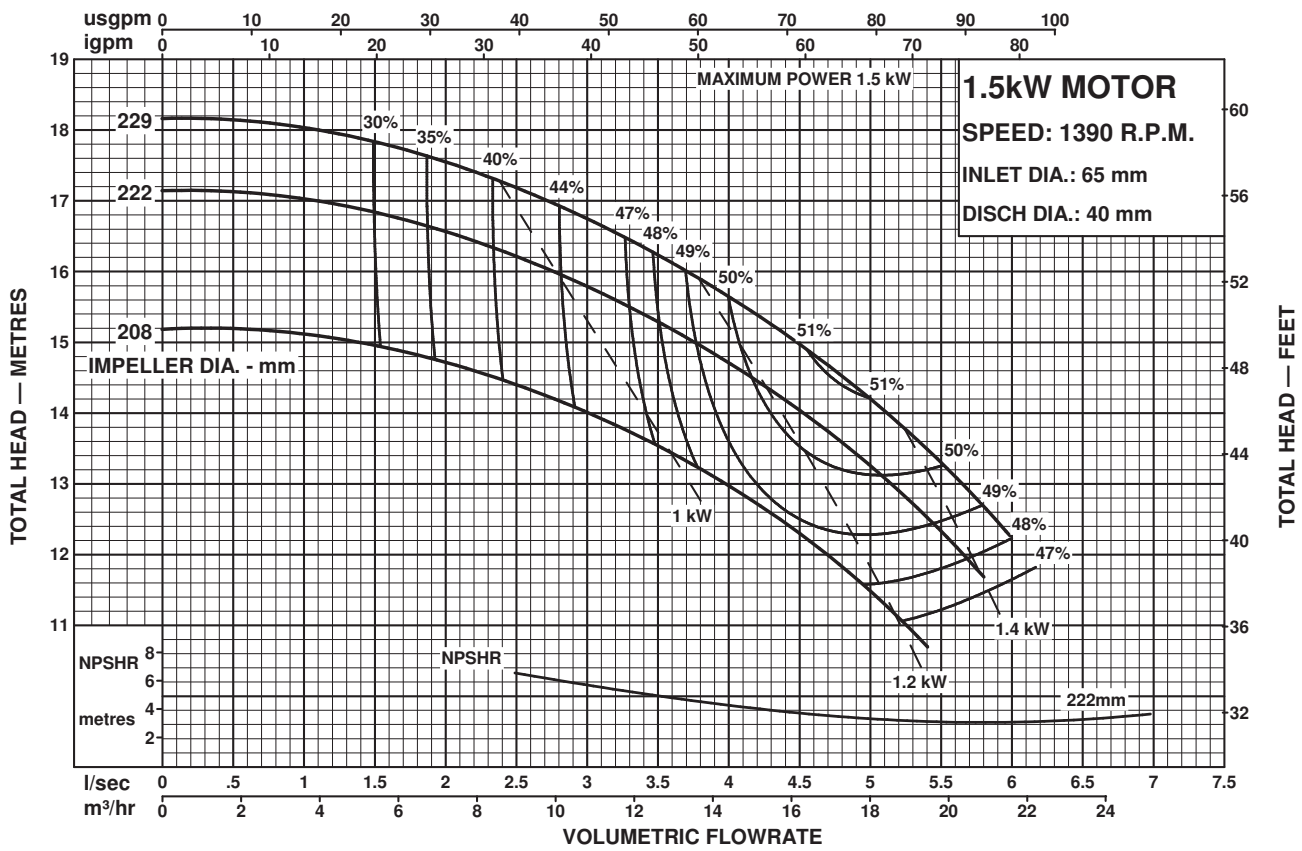
Performance to AS2417 Grade 2 for clean, cold water only.

May 2005

65 x 40-250



CENTRIFUGAL PUMP PERFORMANCE DATA



Performance to AS2417 Grade 2 for clean, cold water only.

May 2005

Performance to AS2417 Grade 2 for clean, cold water only.

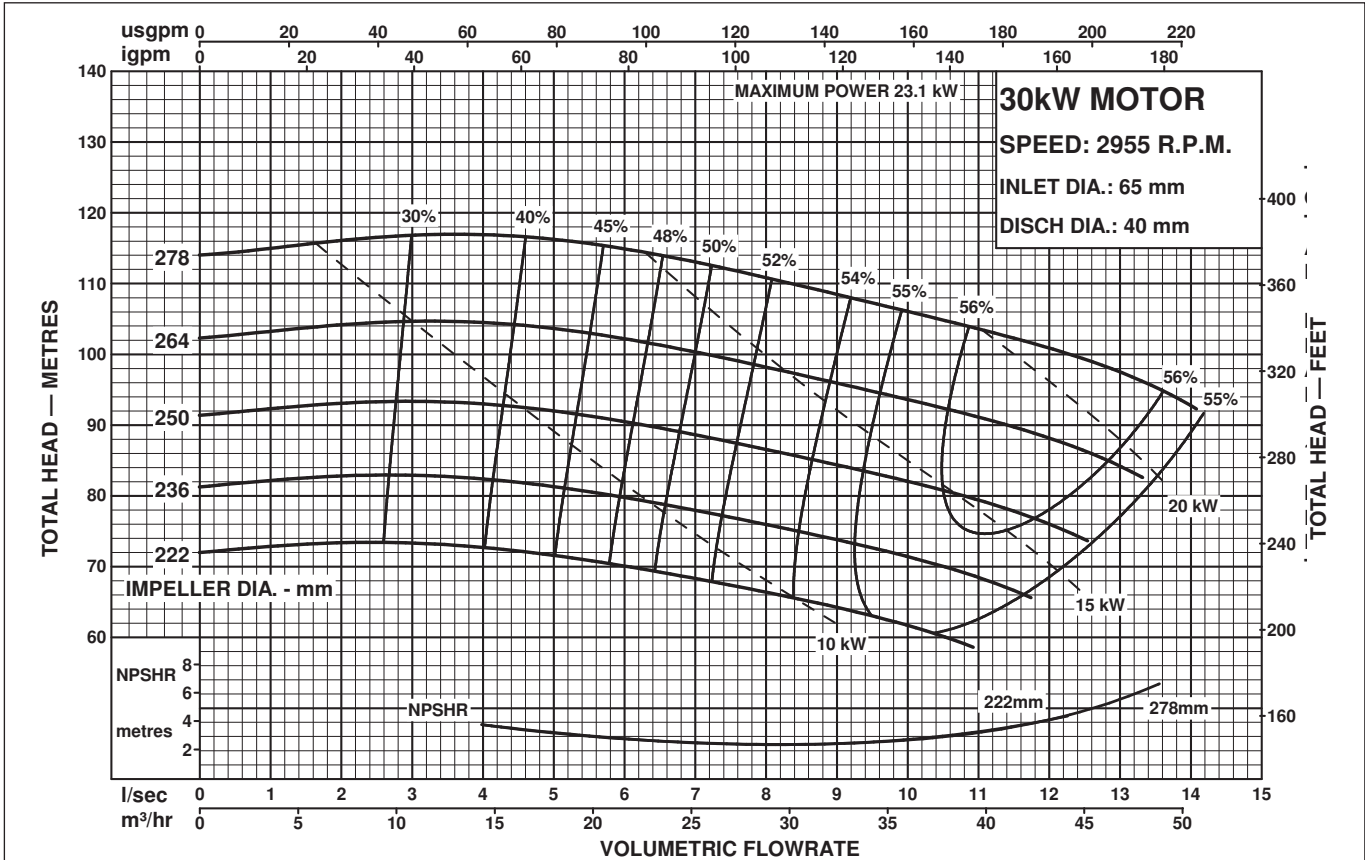
May 2005

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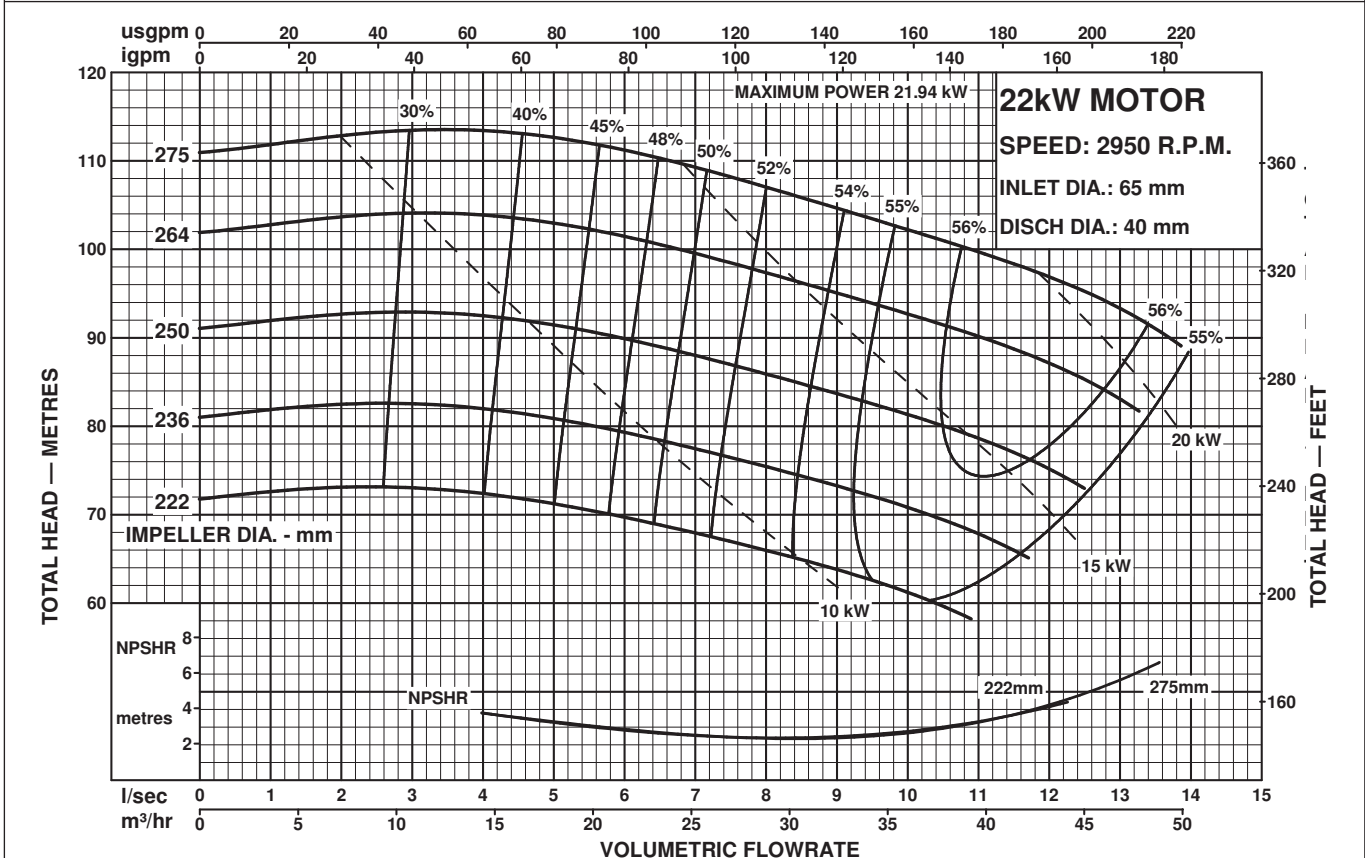
CENTRIFUGAL PUMP PERFORMANCE DATA

65 x 40-250



Performance to AS2417 Grade 2 for clean, cold water only.

May 2005



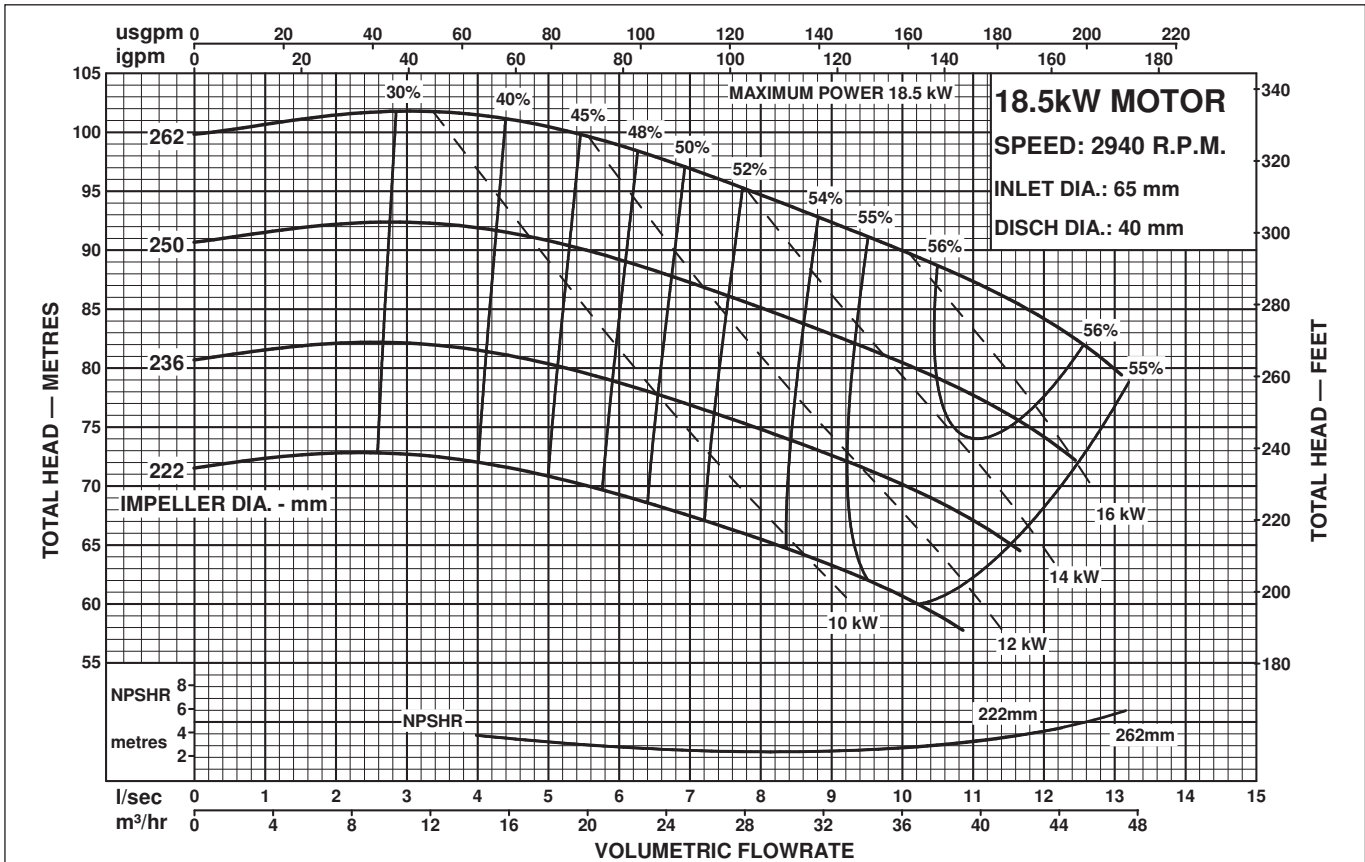
Performance to AS2417 Grade 2 for clean, cold water only.

May 2005

65 x 40-250

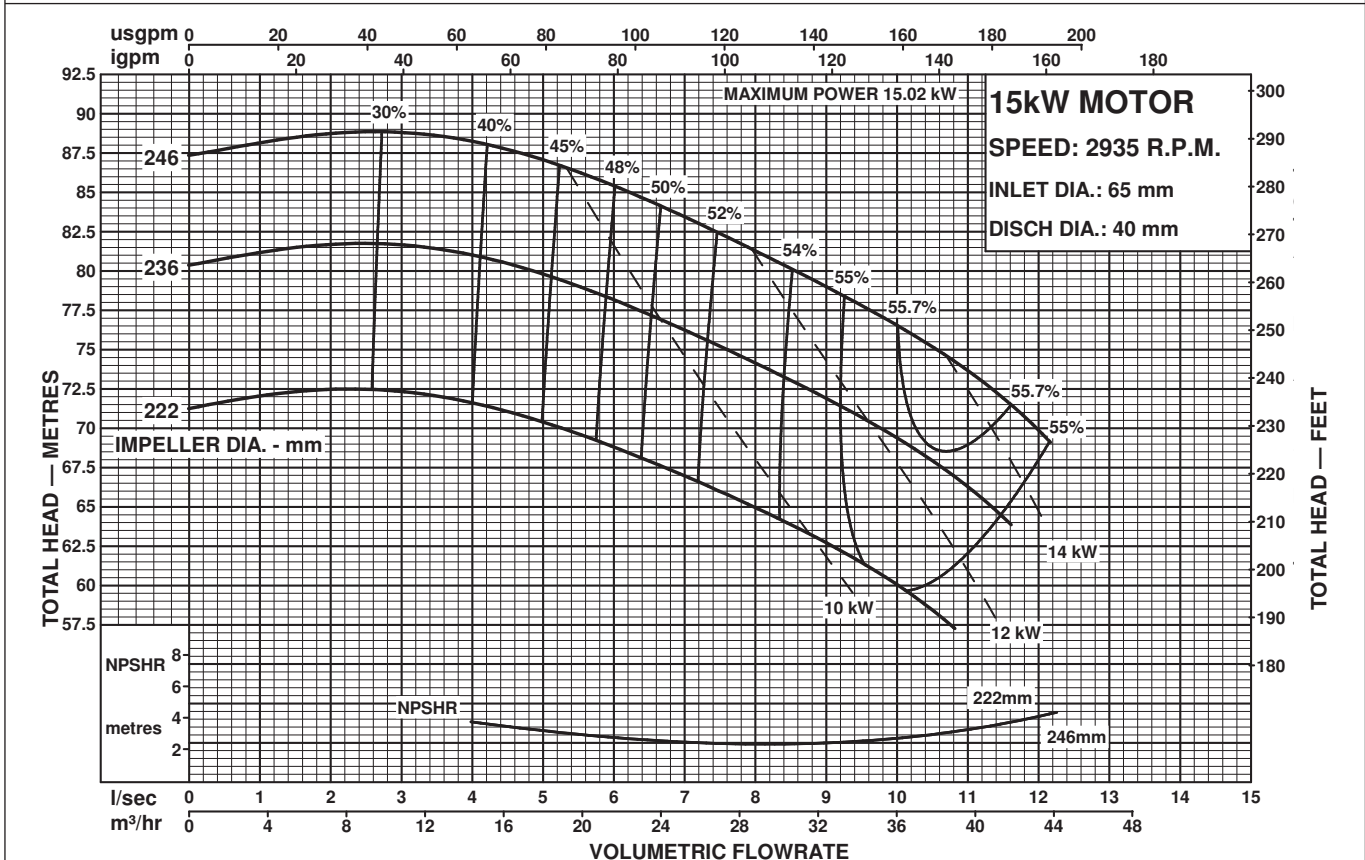


CENTRIFUGAL PUMP PERFORMANCE DATA



Performance to AS2417 Grade 2 for clean, cold water only.

May 2005



Performance to AS2417 Grade 2 for clean, cold water only.

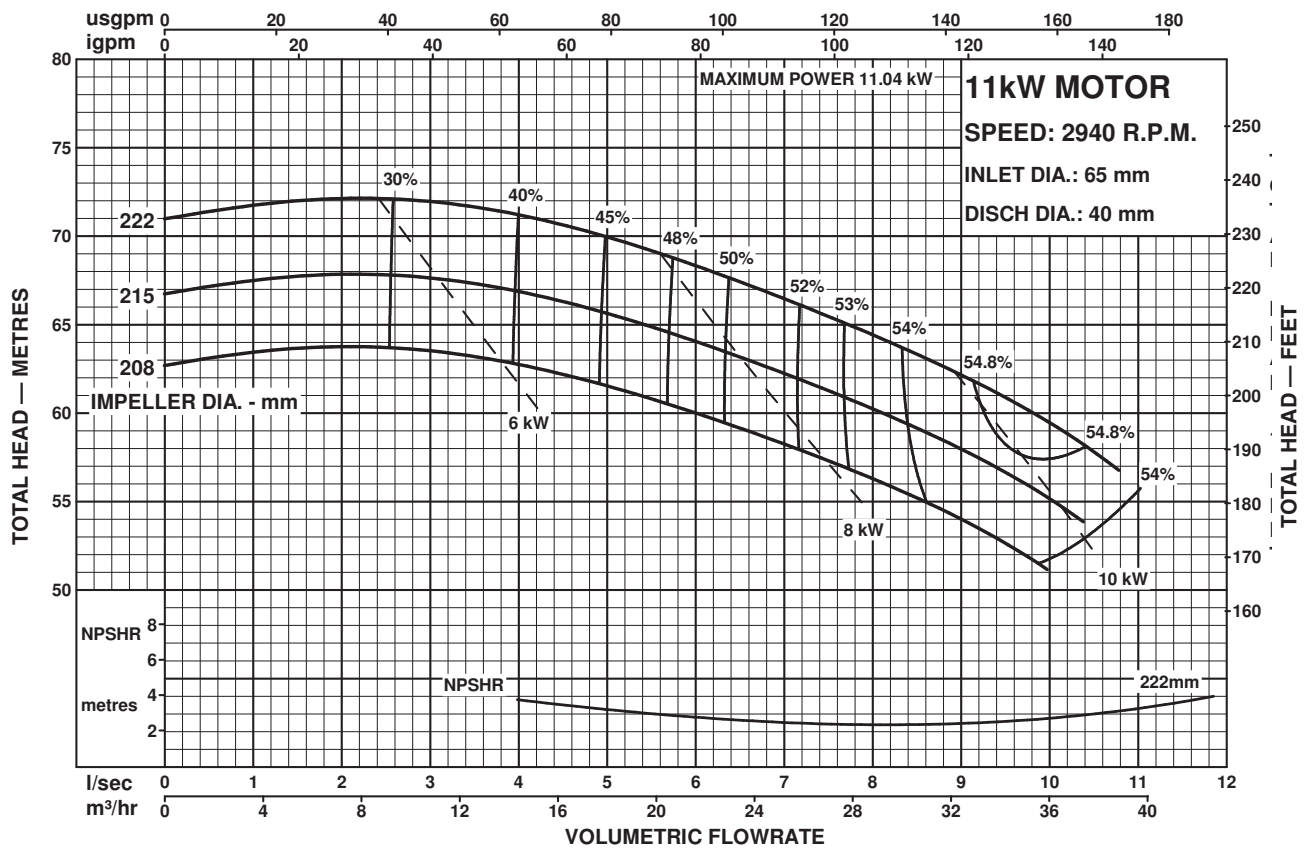
May 2005



CENTRIFUGAL PUMP PERFORMANCE DATA



65 x 40-250



Performance to AS2417 Grade 2 for clean, cold water only.

May 2005

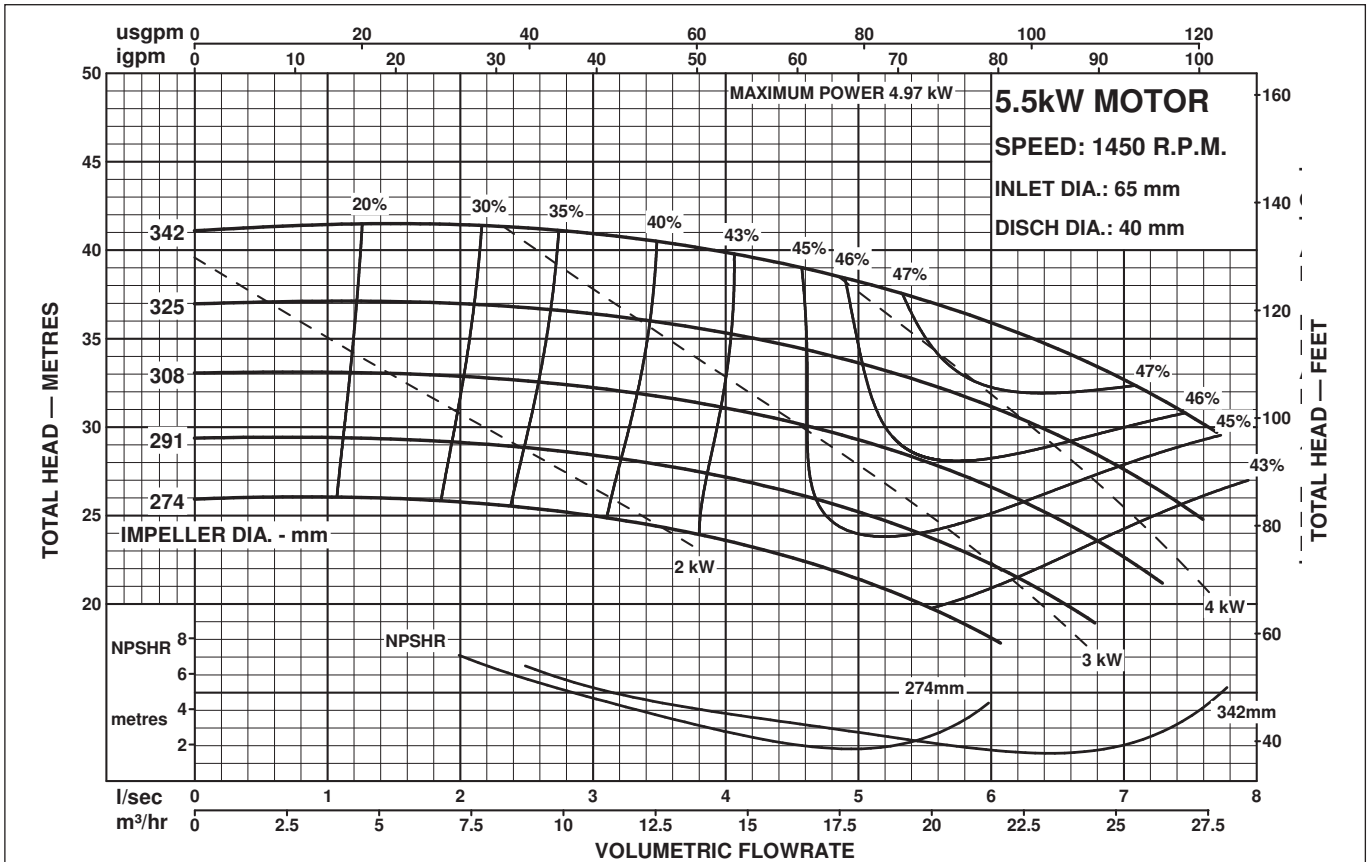
Performance to AS2417 Grade 2 for clean, cold water only.

May 2005

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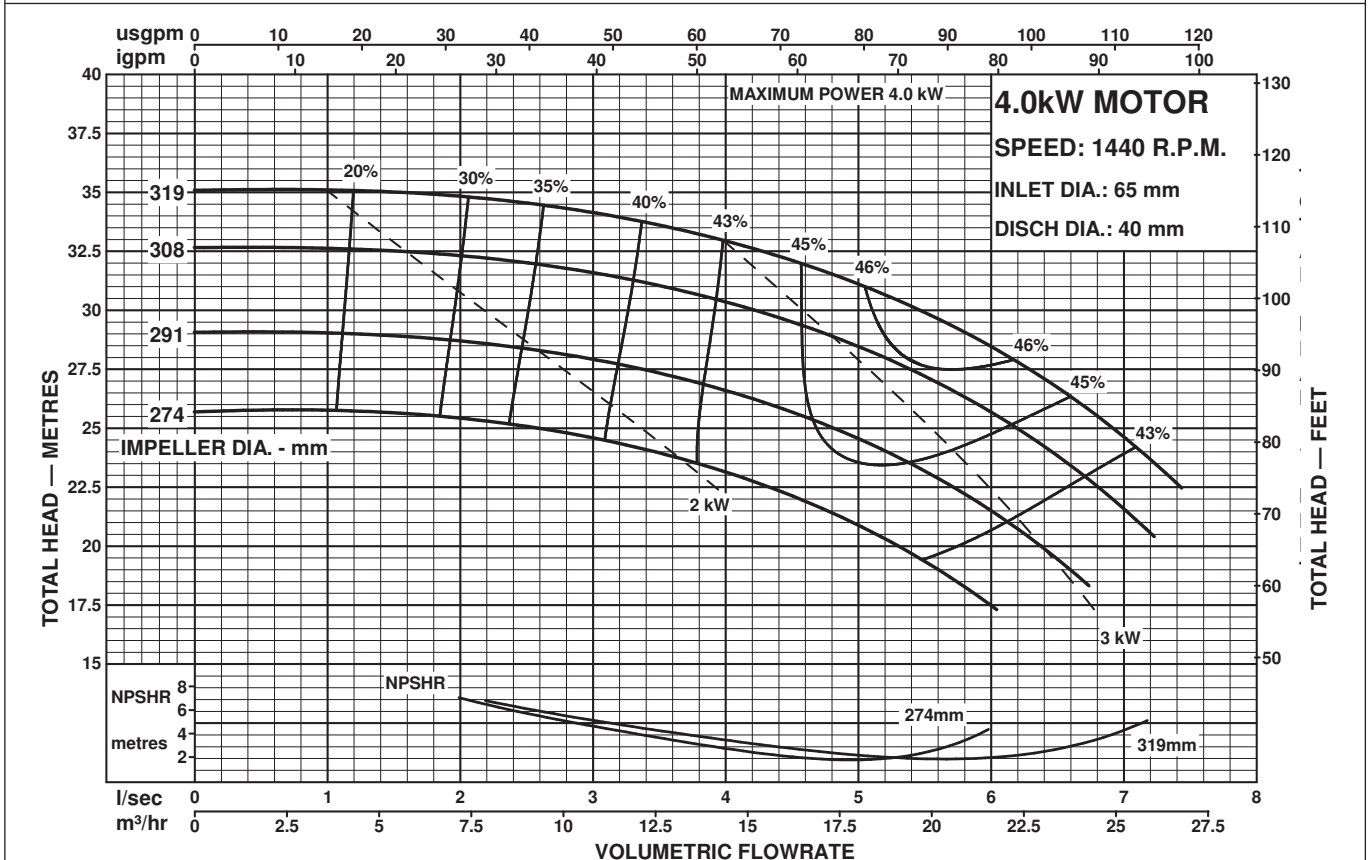


CENTRIFUGAL PUMP PERFORMANCE DATA



Performance to AS2417 Grade 2 for clean, cold water only.

May 2005



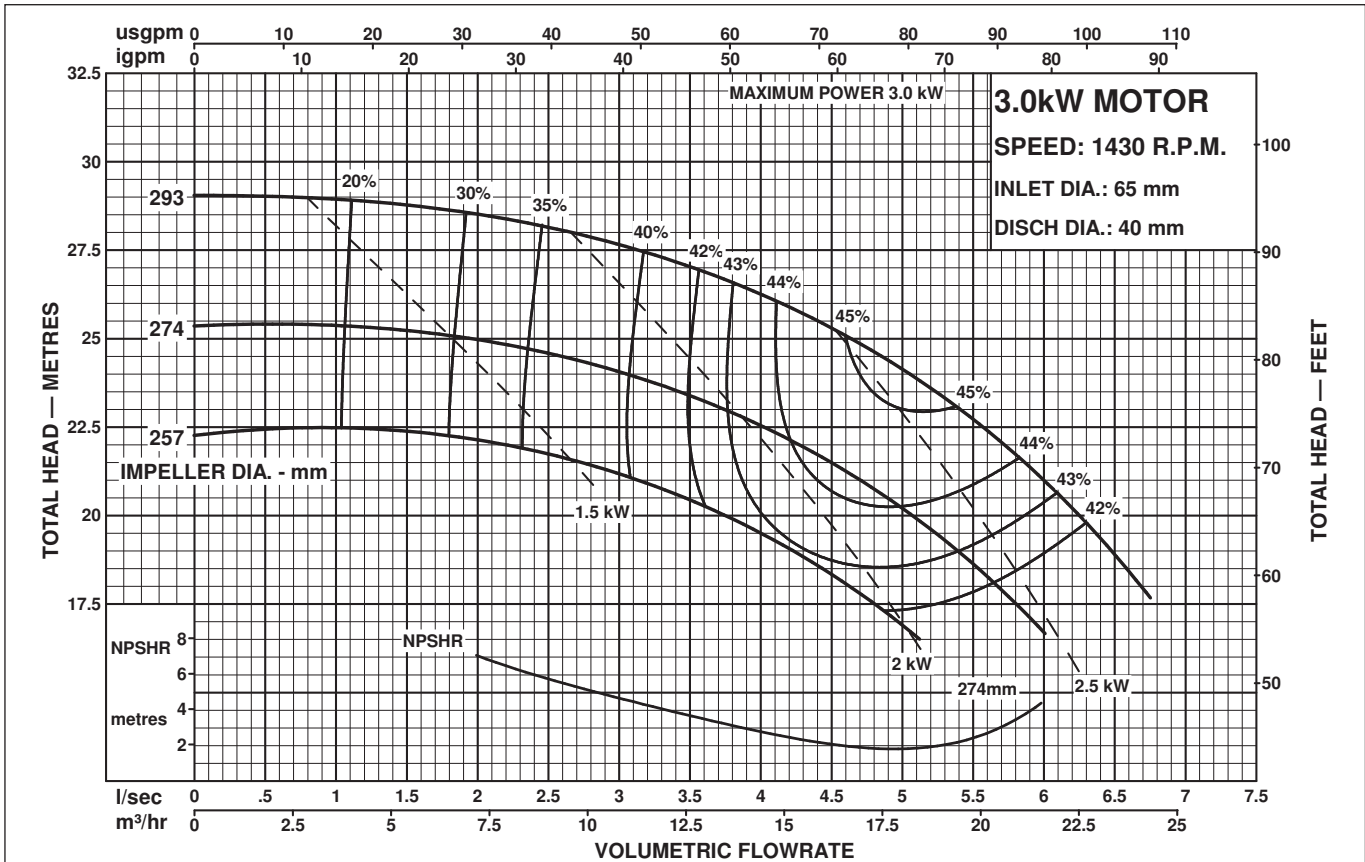
Performance to AS2417 Grade 2 for clean, cold water only.

May 2005

65 x 40-315



CENTRIFUGAL PUMP PERFORMANCE DATA



Performance to AS2417 Grade 2 for clean, cold water only.

May 2005

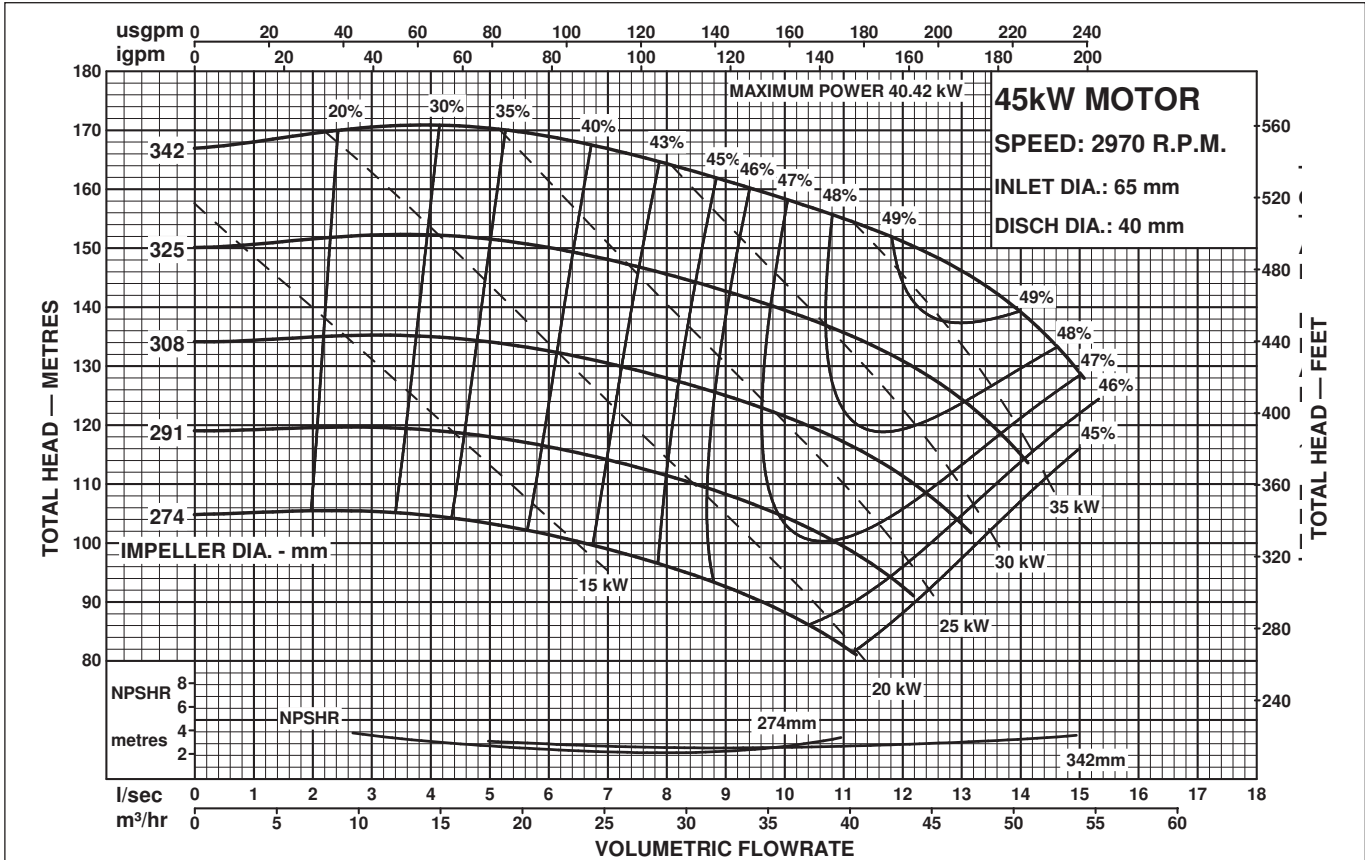
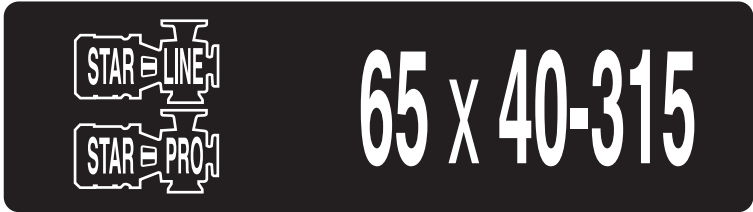
Performance to AS2417 Grade 2 for clean, cold water only.

May 2005

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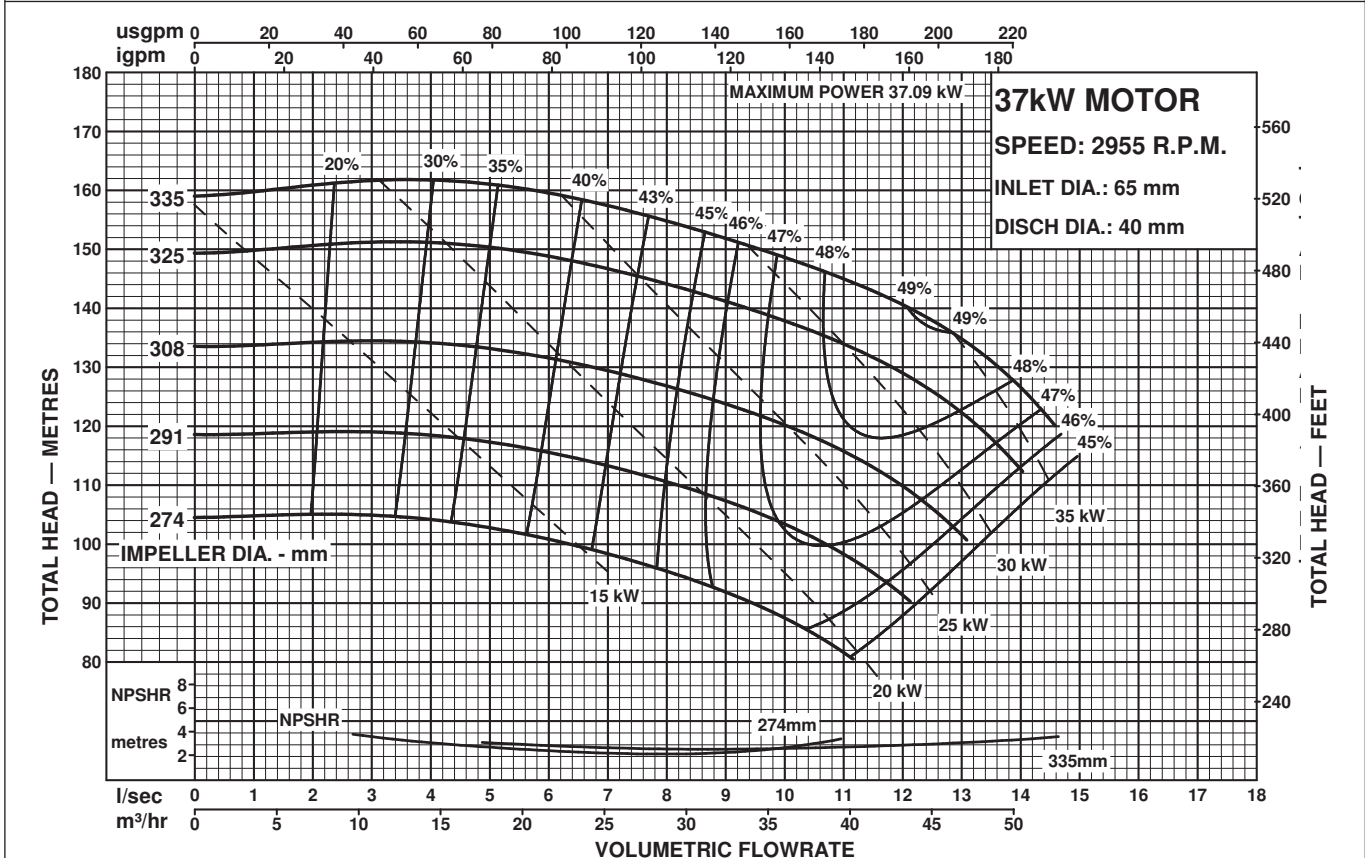


CENTRIFUGAL PUMP PERFORMANCE DATA



Performance to AS2417 Grade 2 for clean, cold water only.

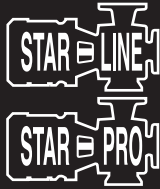
May 2005



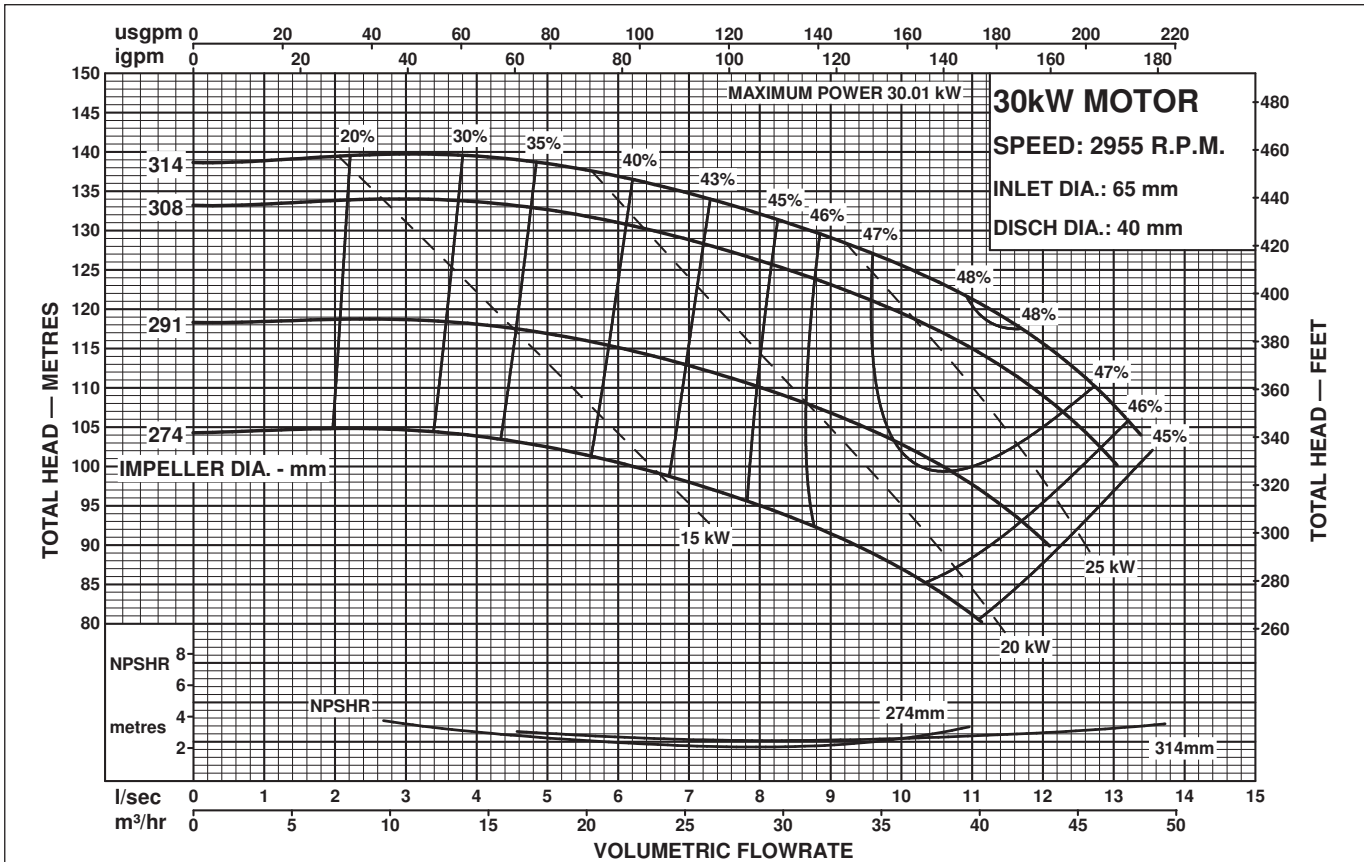
Performance to AS2417 Grade 2 for clean, cold water only.

May 2005

65 x 40-315

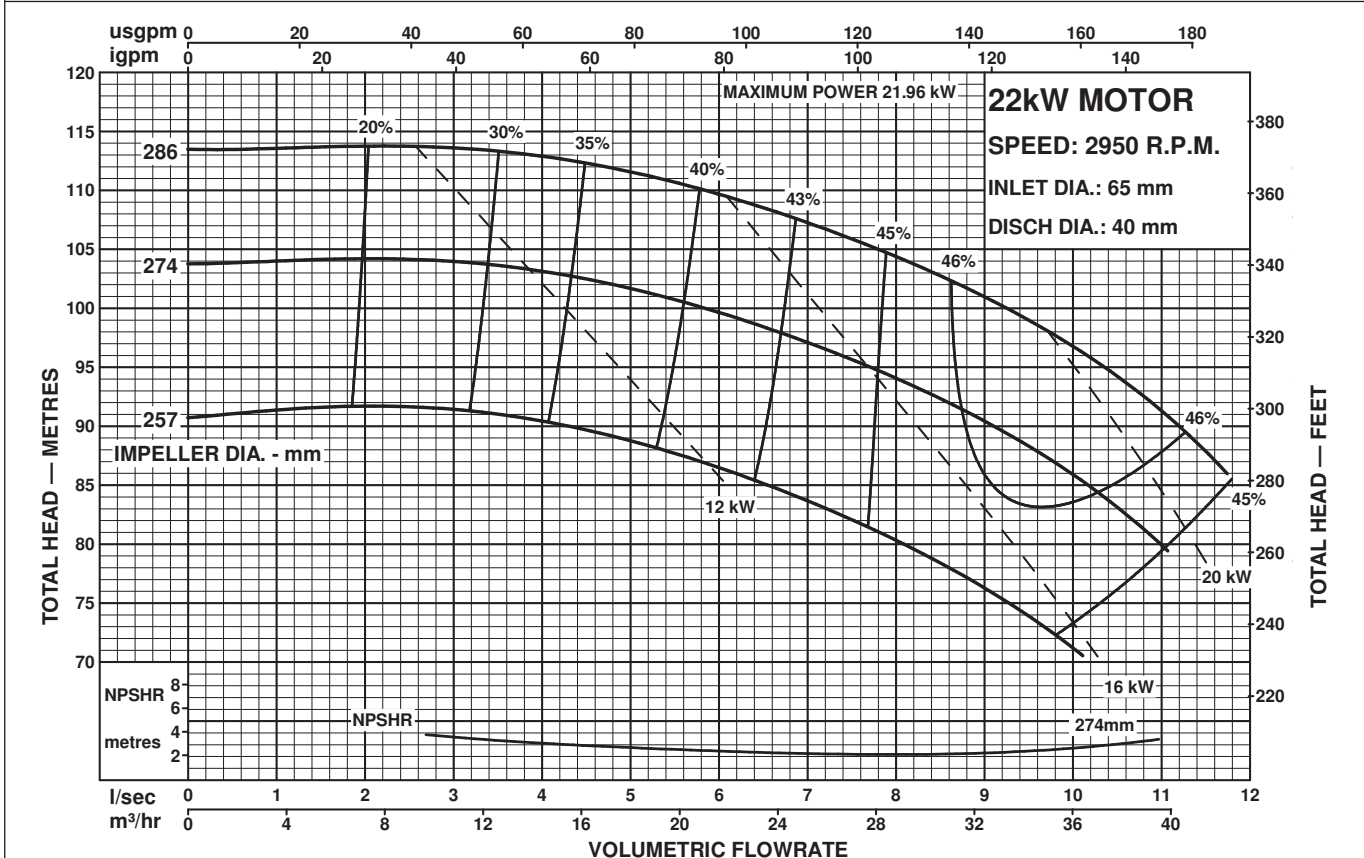


CENTRIFUGAL PUMP PERFORMANCE DATA



Performance to AS2417 Grade 2 for clean, cold water only.

May 2005

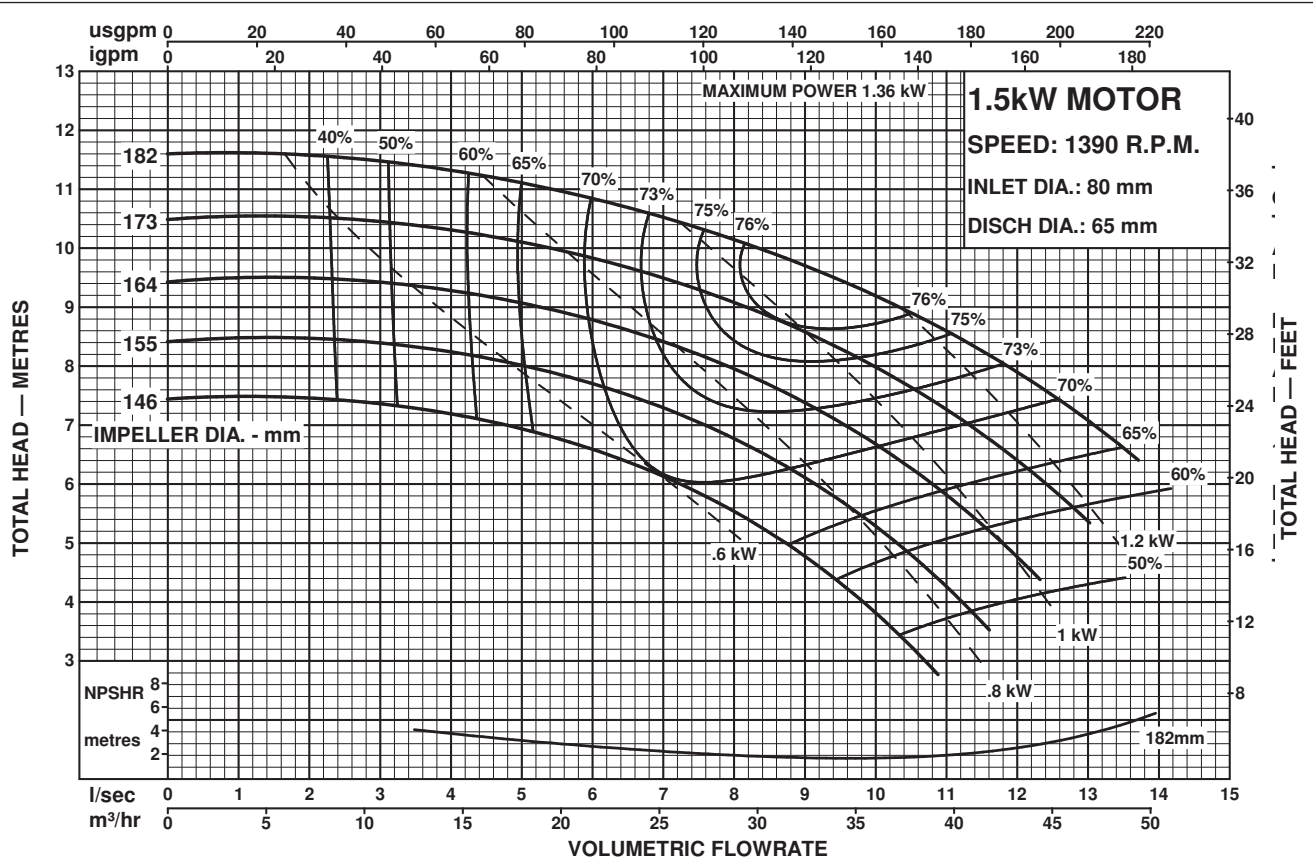
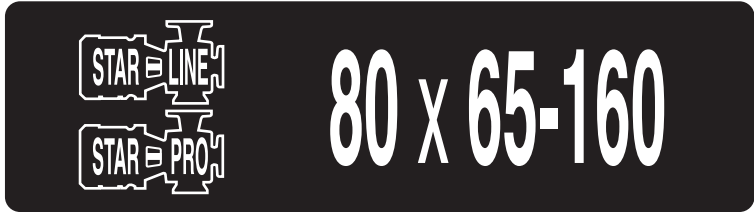


Performance to AS2417 Grade 2 for clean, cold water only.

May 2005

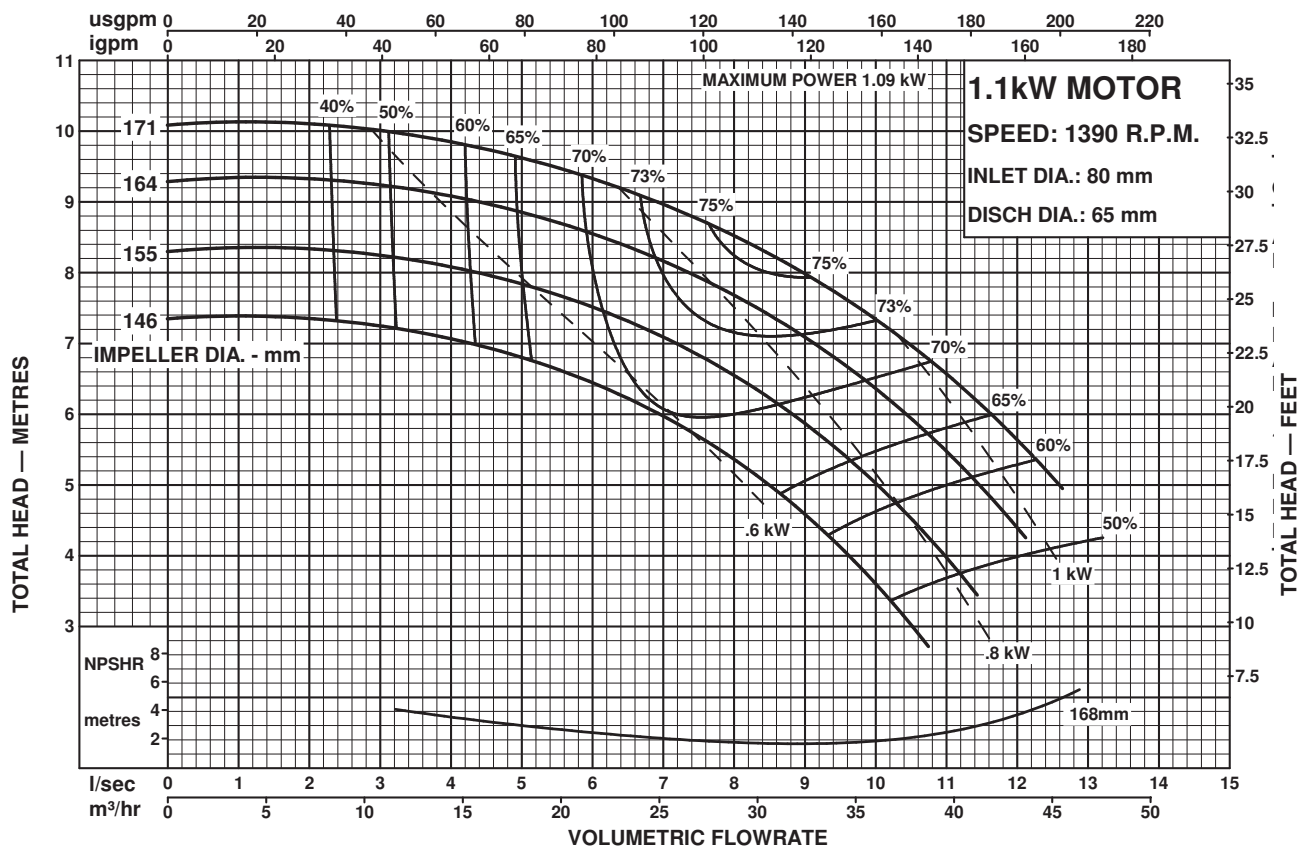


CENTRIFUGAL PUMP PERFORMANCE DATA



Performance to AS2417 Grade 2 for clean, cold water only.

May 2005



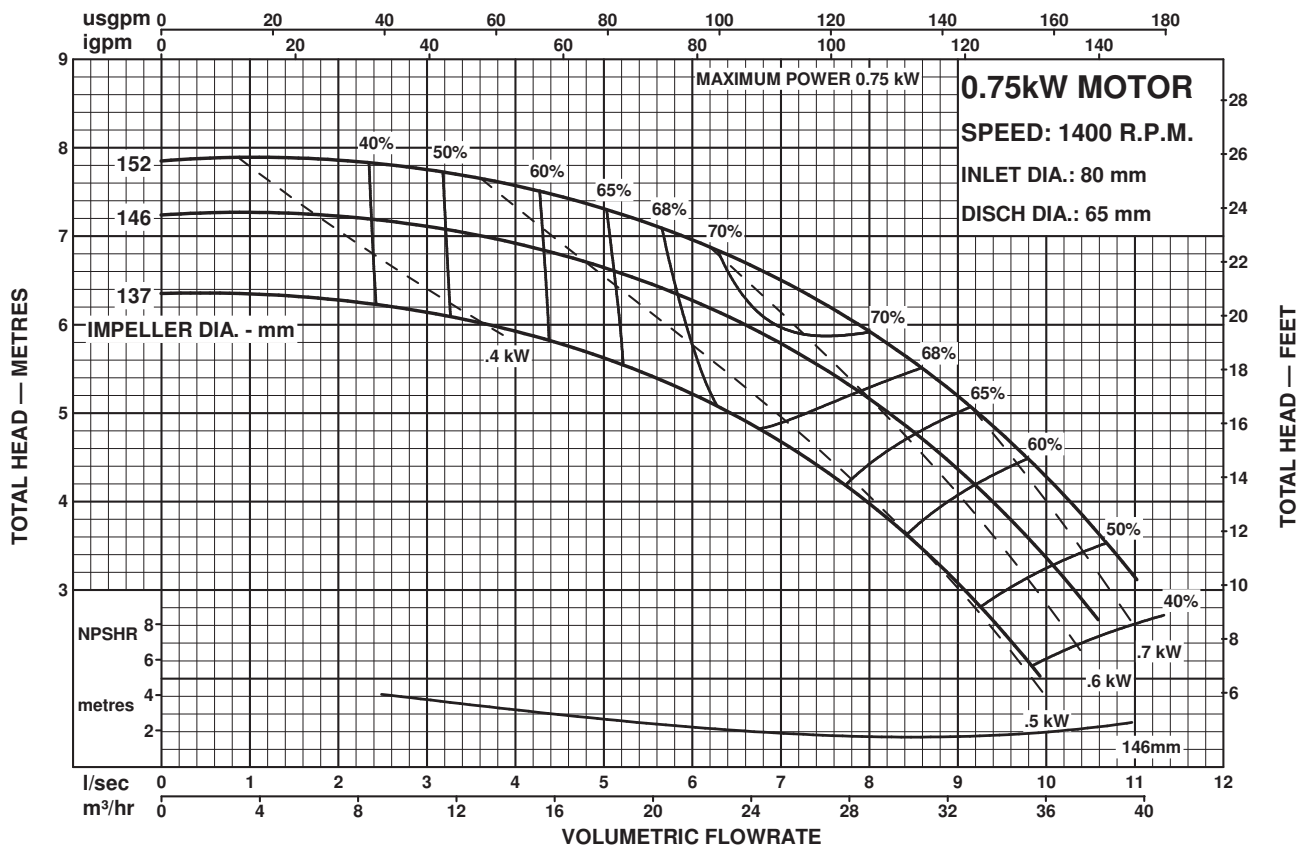
Performance to AS2417 Grade 2 for clean, cold water only.

May 2005

80 x 65-160



CENTRIFUGAL PUMP PERFORMANCE DATA



Performance to AS2417 Grade 2 for clean, cold water only.

May 2005

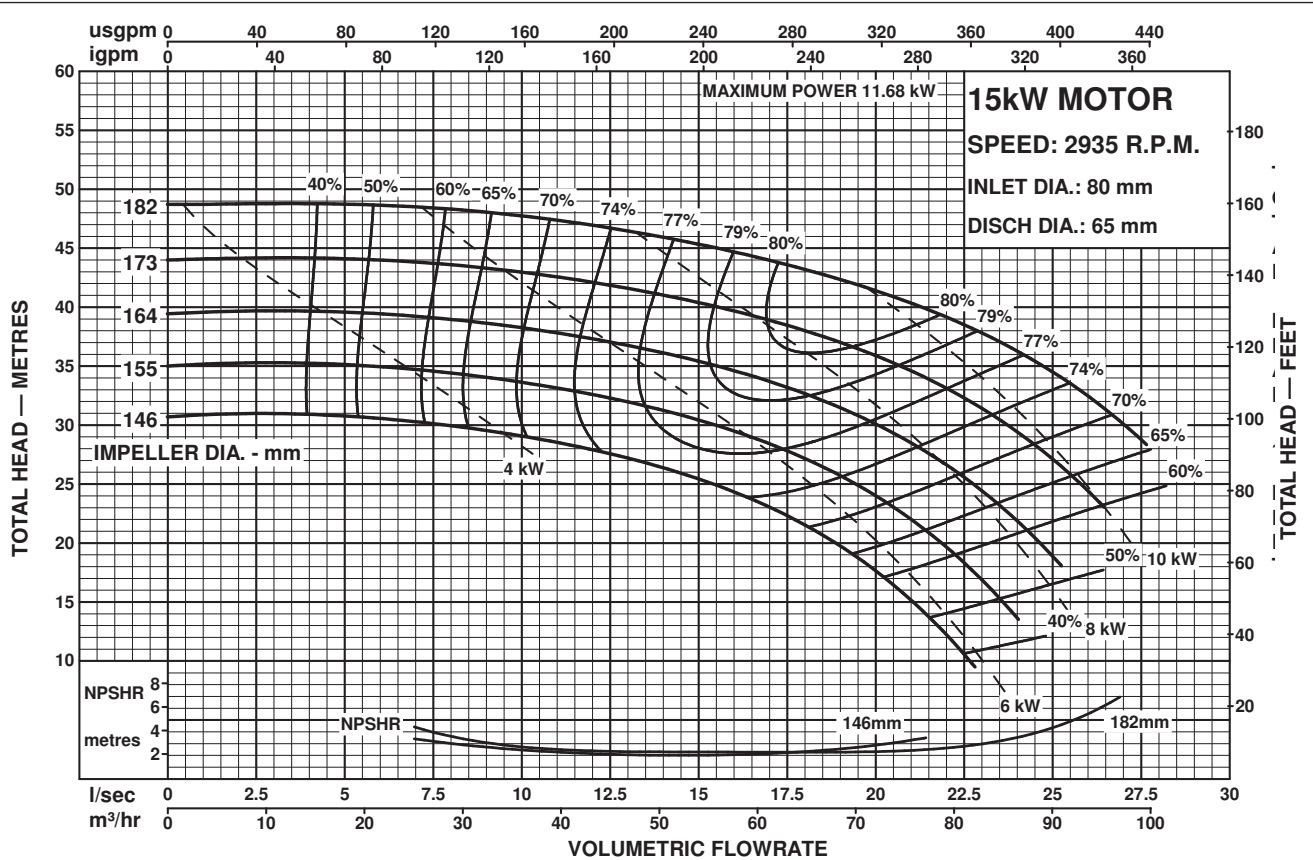
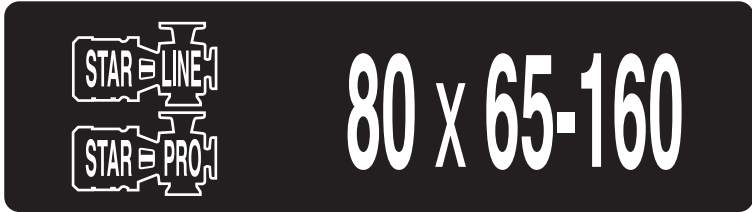
Performance to AS2417 Grade 2 for clean, cold water only.

May 2005

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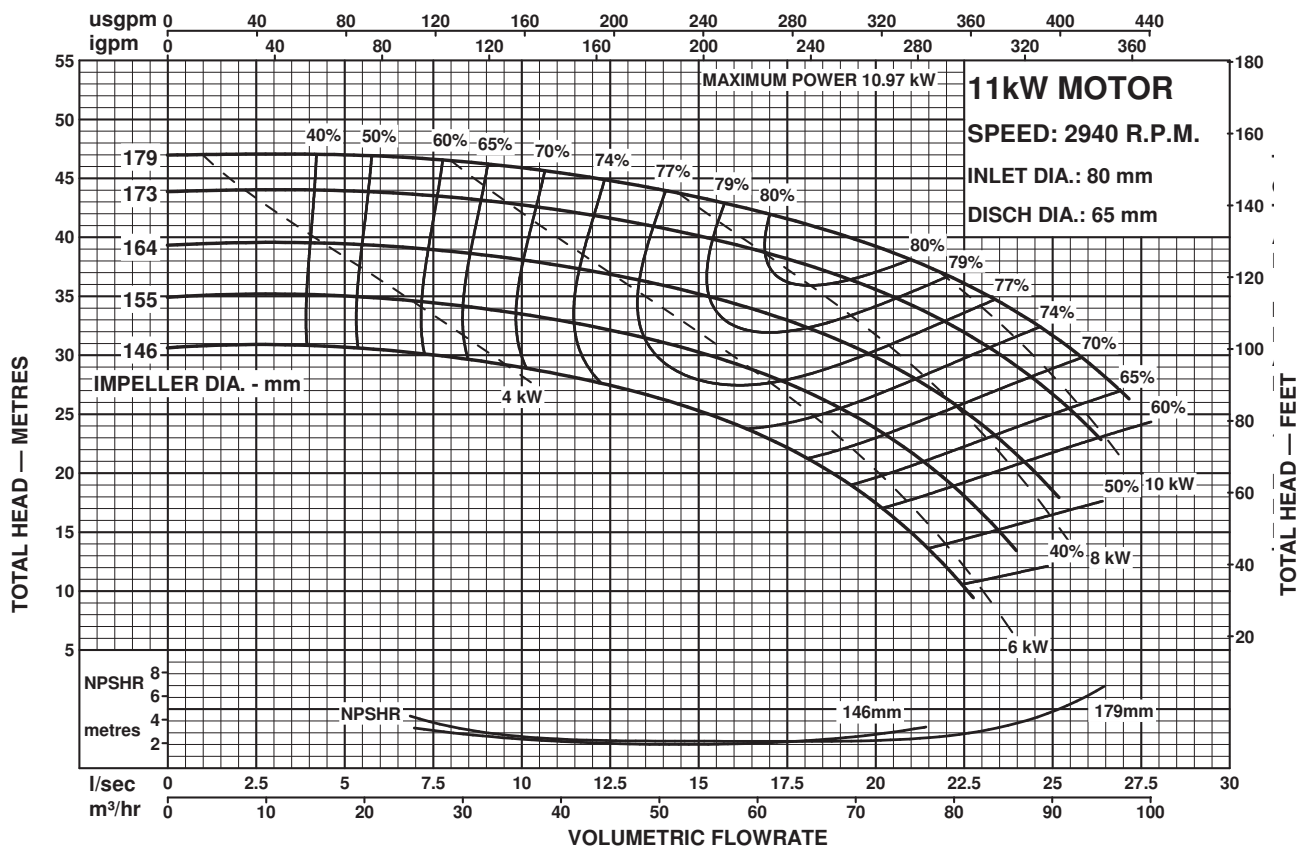


CENTRIFUGAL PUMP PERFORMANCE DATA



Performance to AS2417 Grade 2 for clean, cold water only.

May 2005



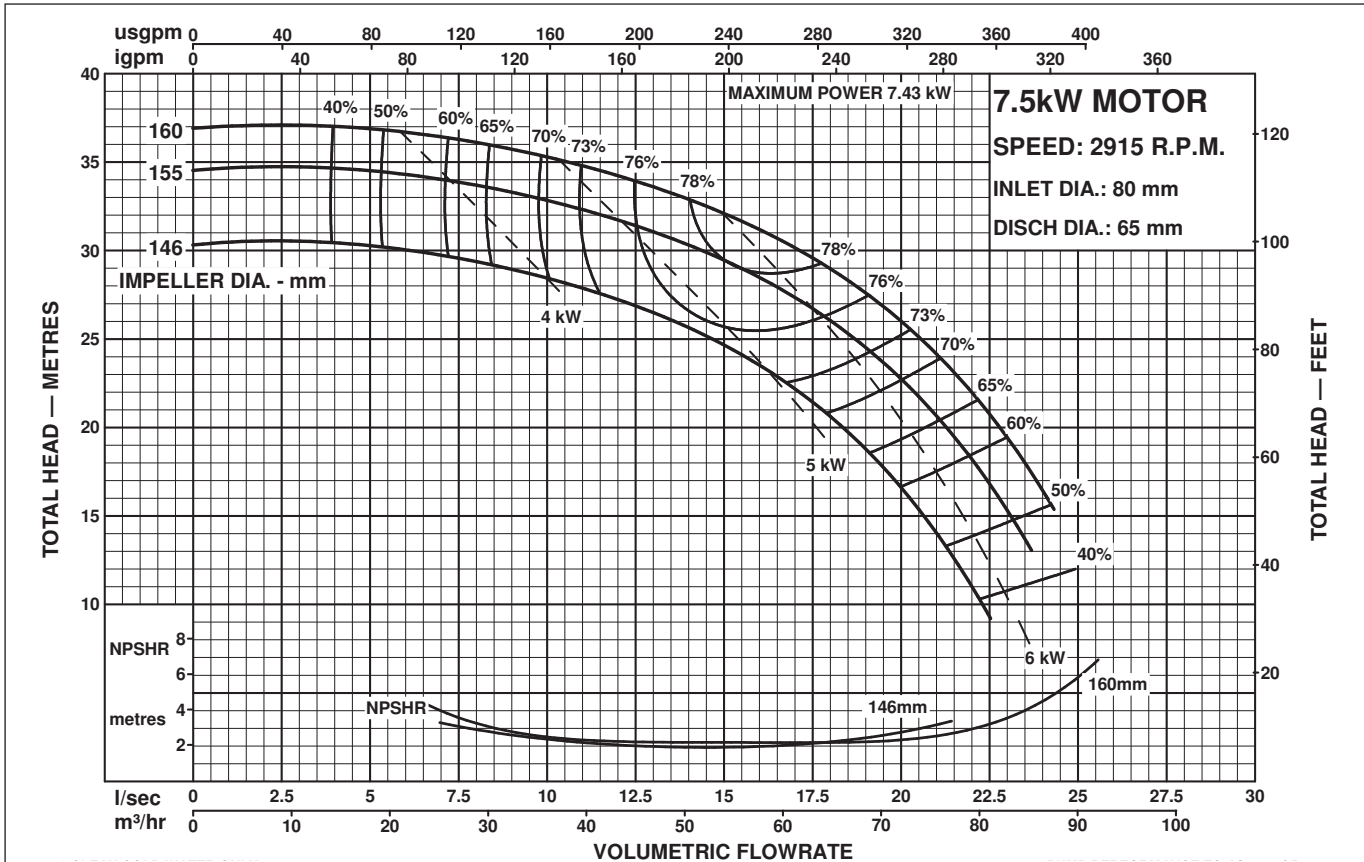
Performance to AS2417 Grade 2 for clean, cold water only.

May 2005

80 x 65-160

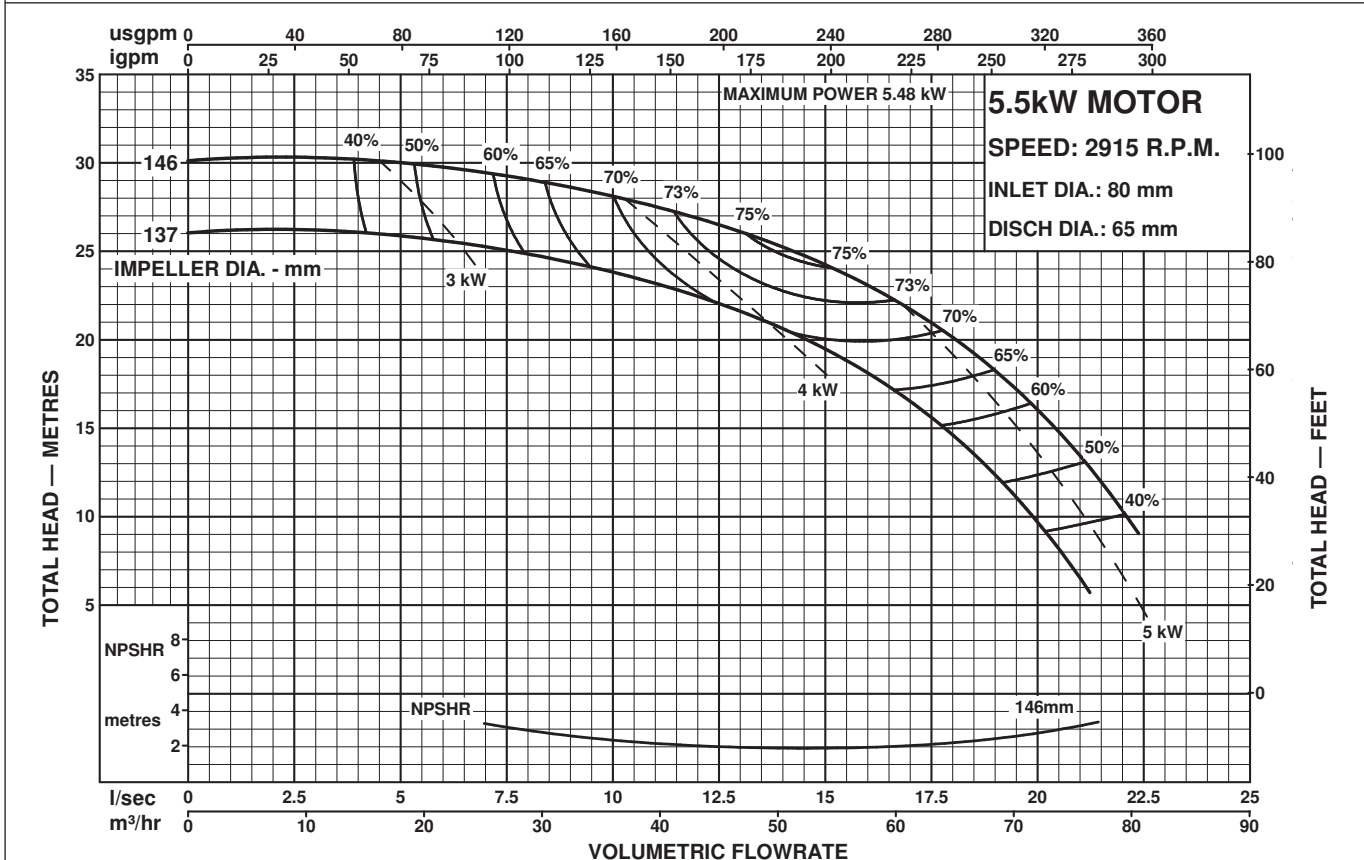


CENTRIFUGAL PUMP PERFORMANCE DATA



Performance to AS2417 Grade 2 for clean, cold water only.

May 2005



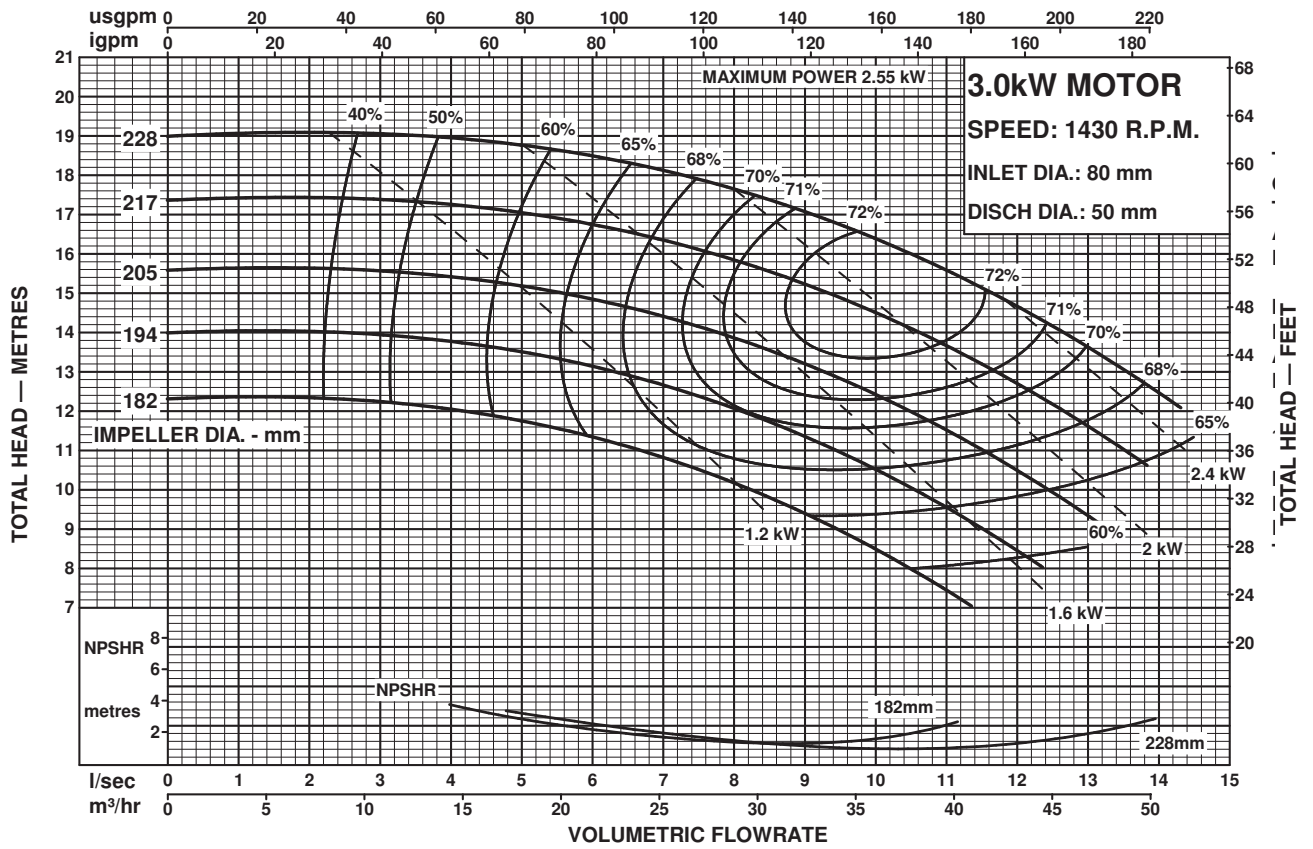
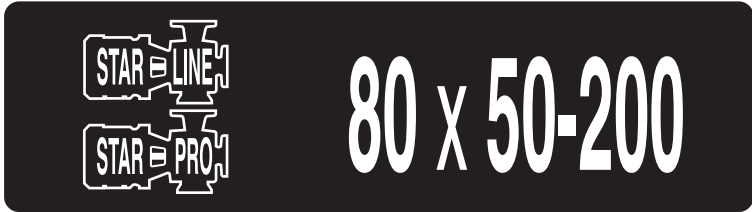
Performance to AS2417 Grade 2 for clean, cold water only.

May 2005

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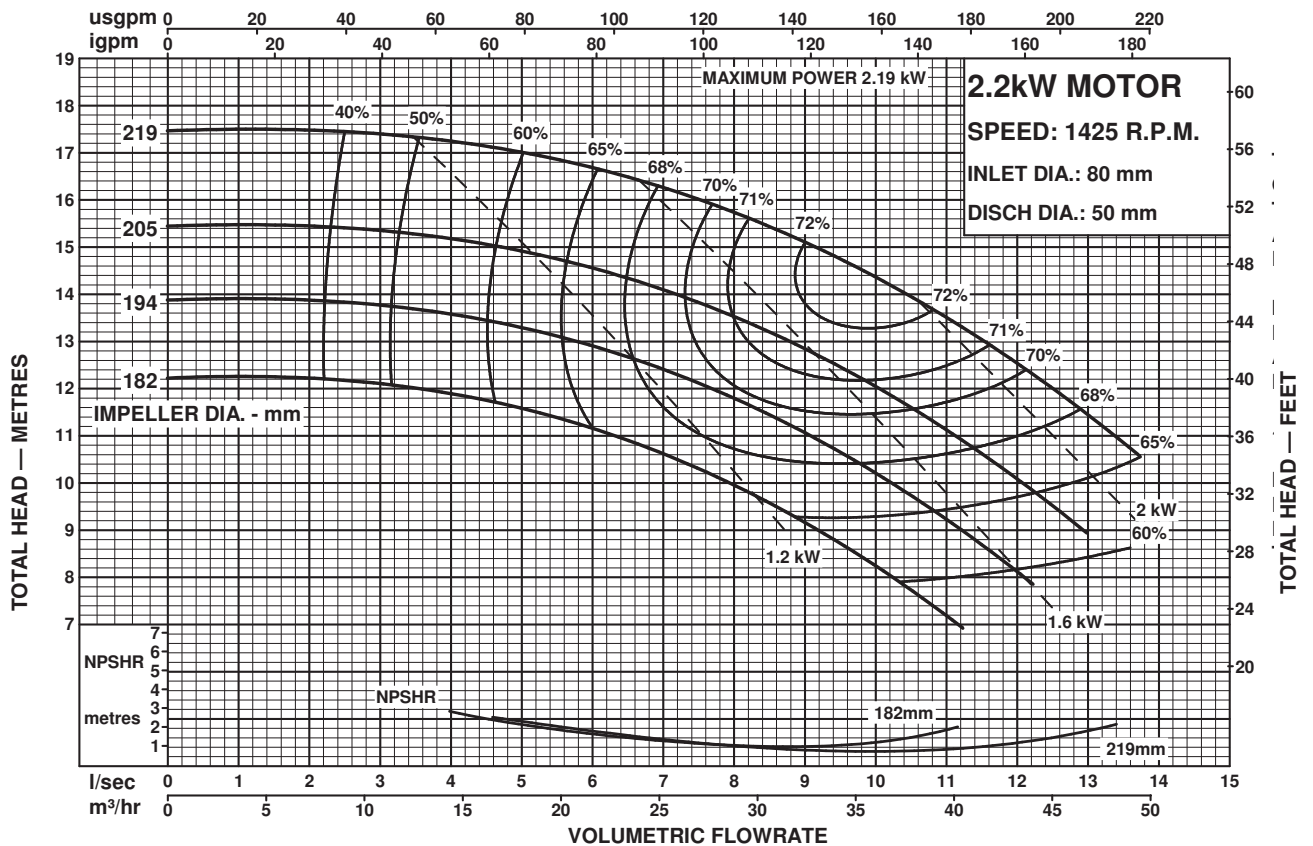


CENTRIFUGAL PUMP PERFORMANCE DATA



Performance to AS2417 Grade 2 for clean, cold water only.

May 2005



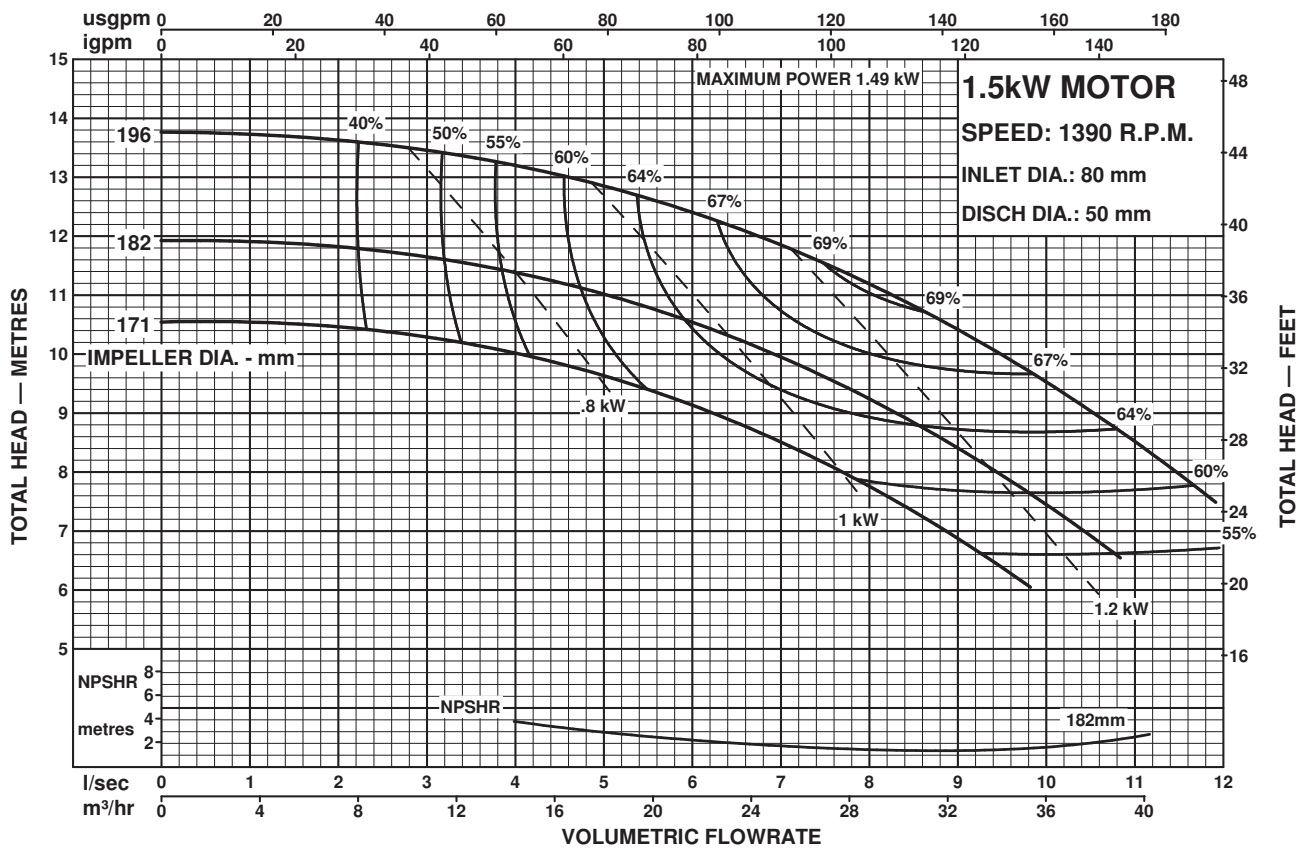
Performance to AS2417 Grade 2 for clean, cold water only.

May 2005

80 x 50-200



CENTRIFUGAL PUMP PERFORMANCE DATA



Performance to AS2417 Grade 2 for clean, cold water only.

May 2005

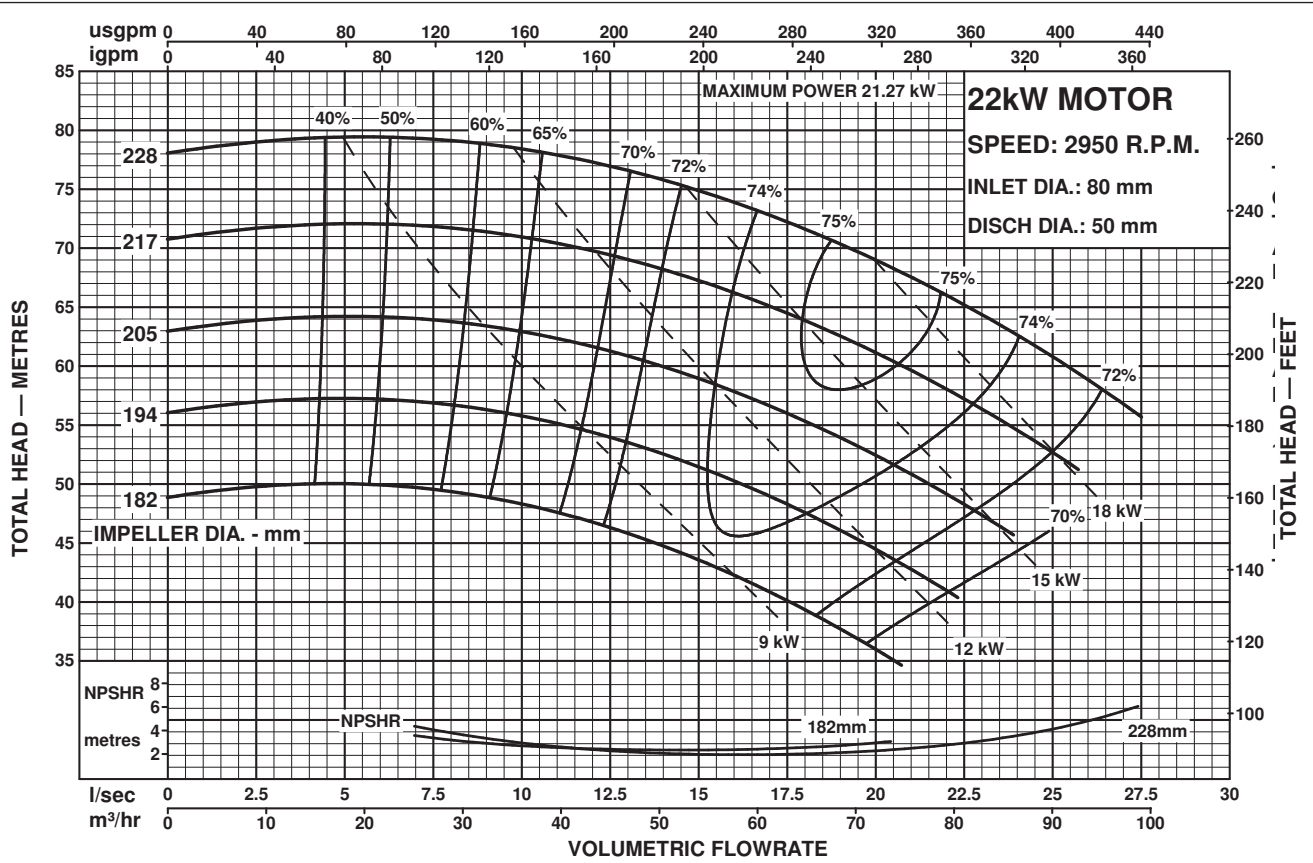
Performance to AS2417 Grade 2 for clean, cold water only.

May 2005

A division of **tyco** Flow Control Pacific Pty Ltd A.B.N. 83 000 922 690

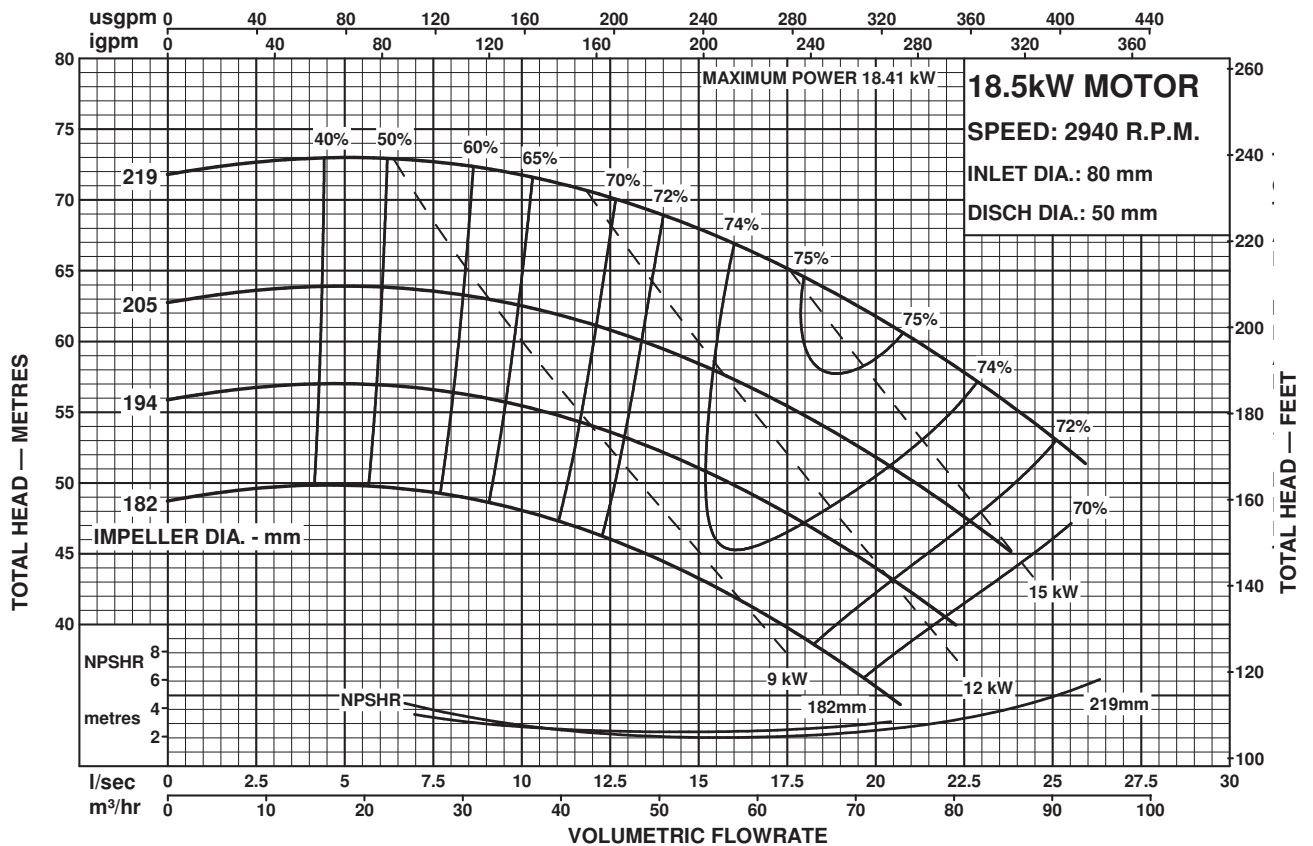


CENTRIFUGAL PUMP PERFORMANCE DATA



Performance to AS2417 Grade 2 for clean, cold water only.

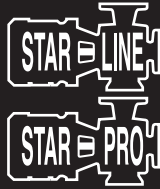
May 2005



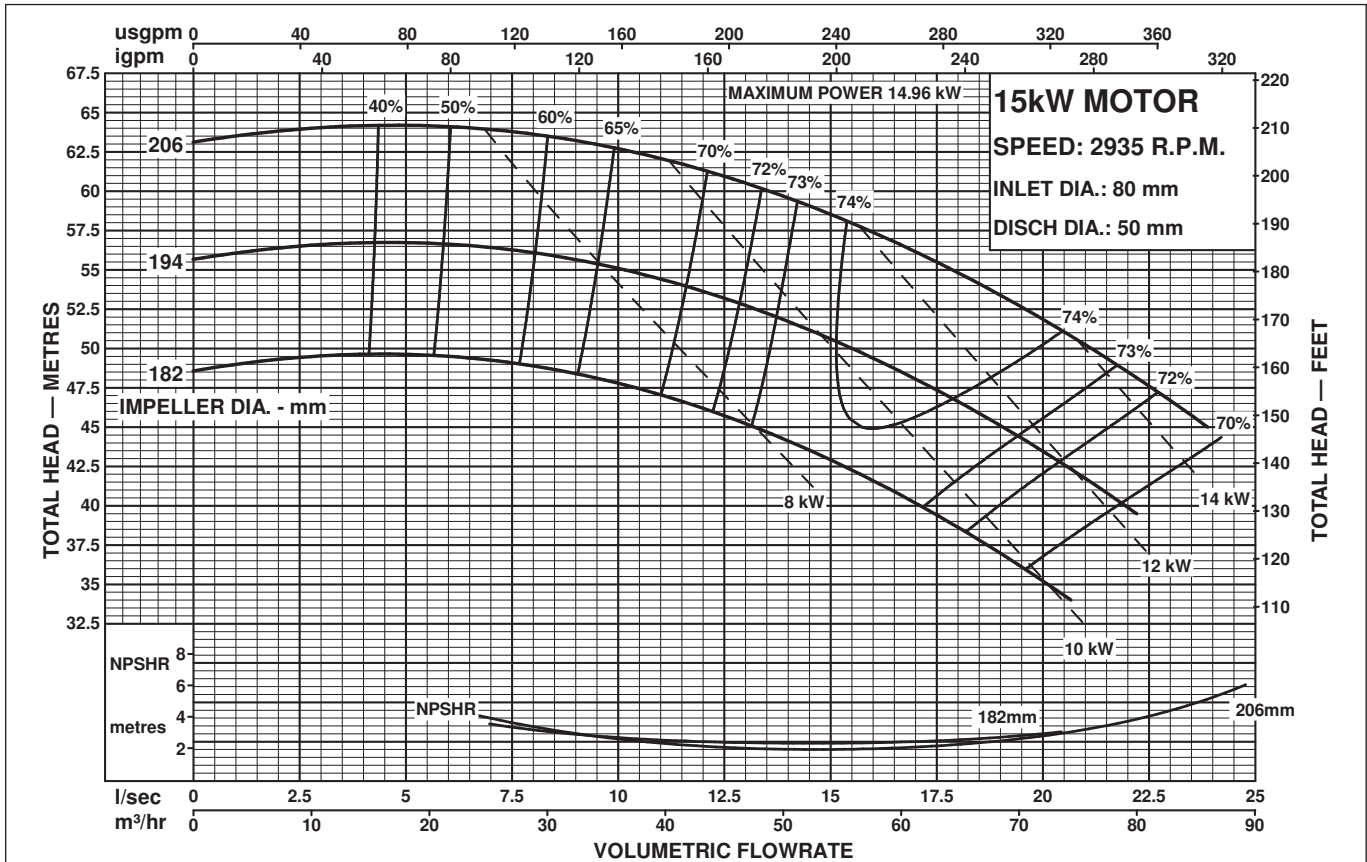
Performance to AS2417 Grade 2 for clean, cold water only.

May 2005

80 x 50-200

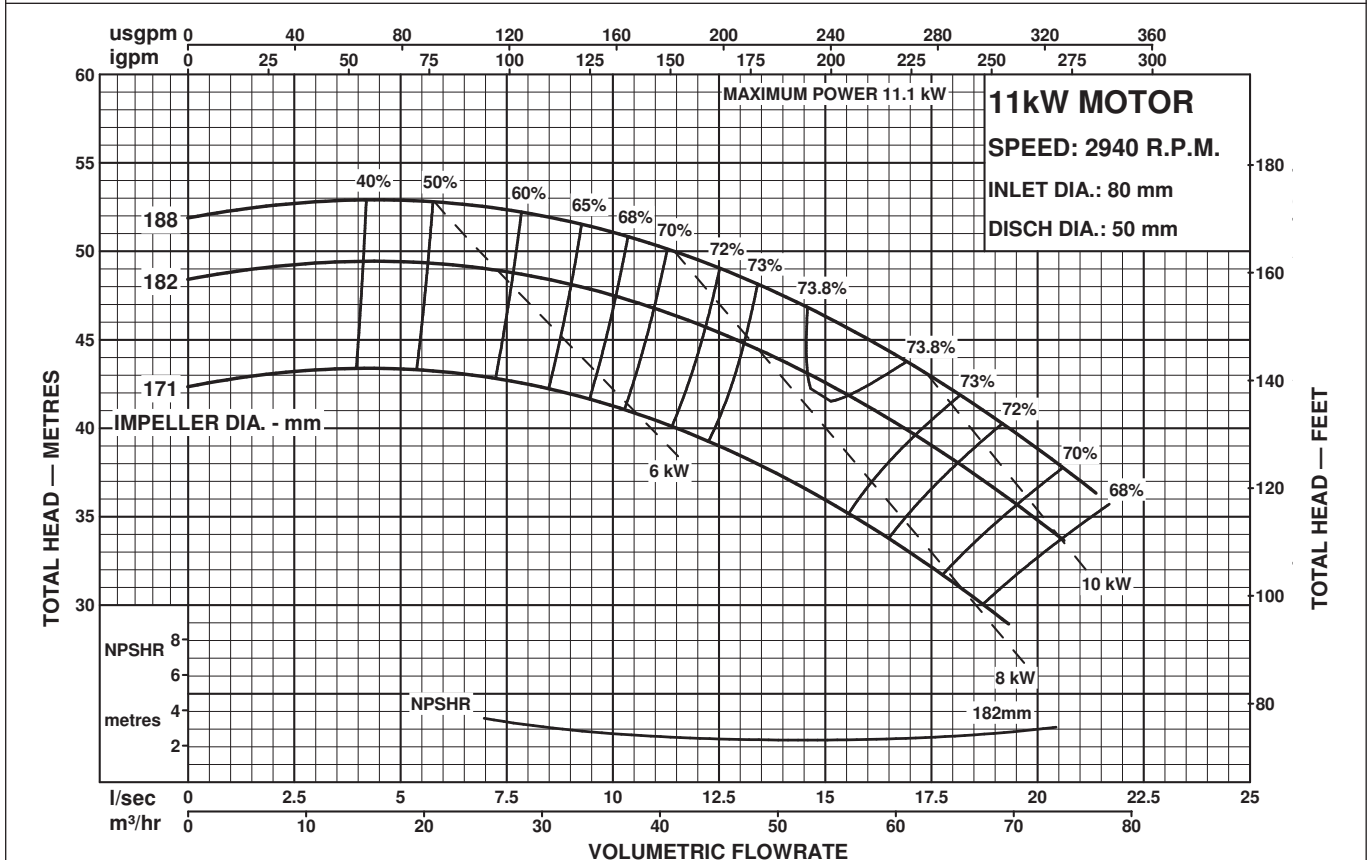


CENTRIFUGAL PUMP PERFORMANCE DATA



Performance to AS2417 Grade 2 for clean, cold water only.

May 2005

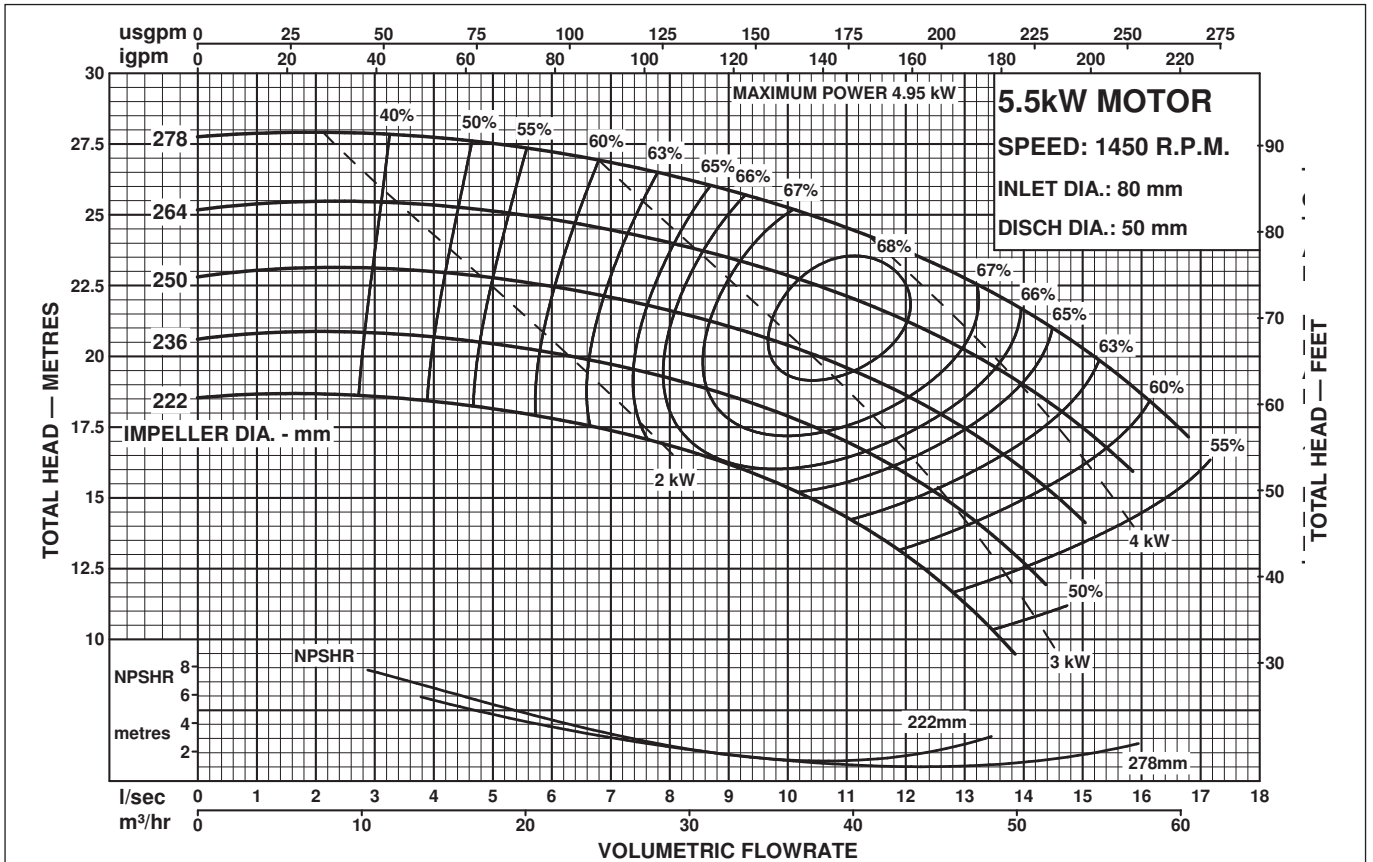
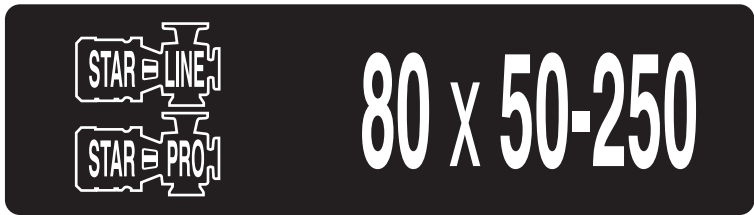


Performance to AS2417 Grade 2 for clean, cold water only.

May 2005

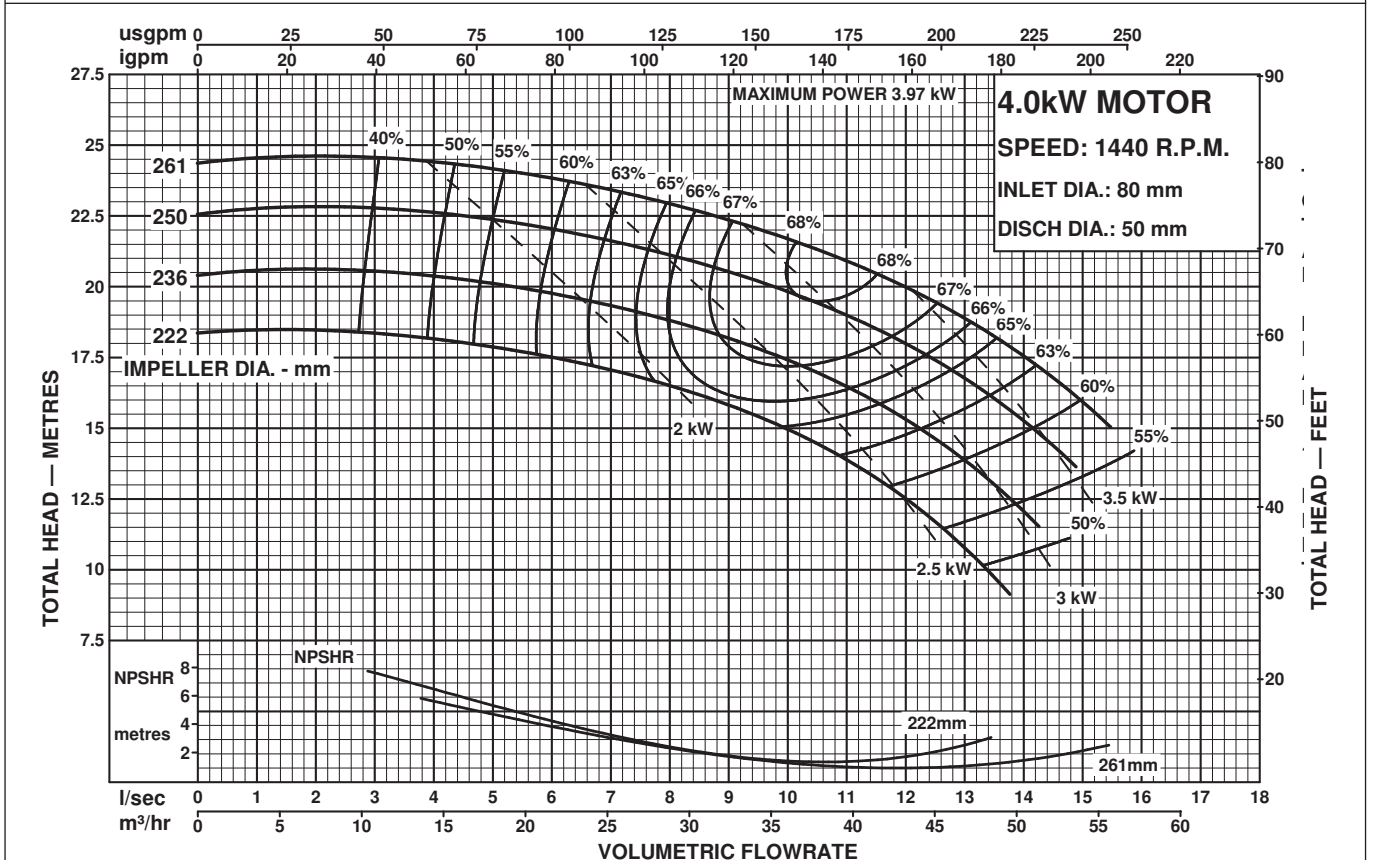


CENTRIFUGAL PUMP PERFORMANCE DATA



Performance to AS2417 Grade 2 for clean, cold water only.

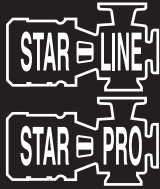
May 2005



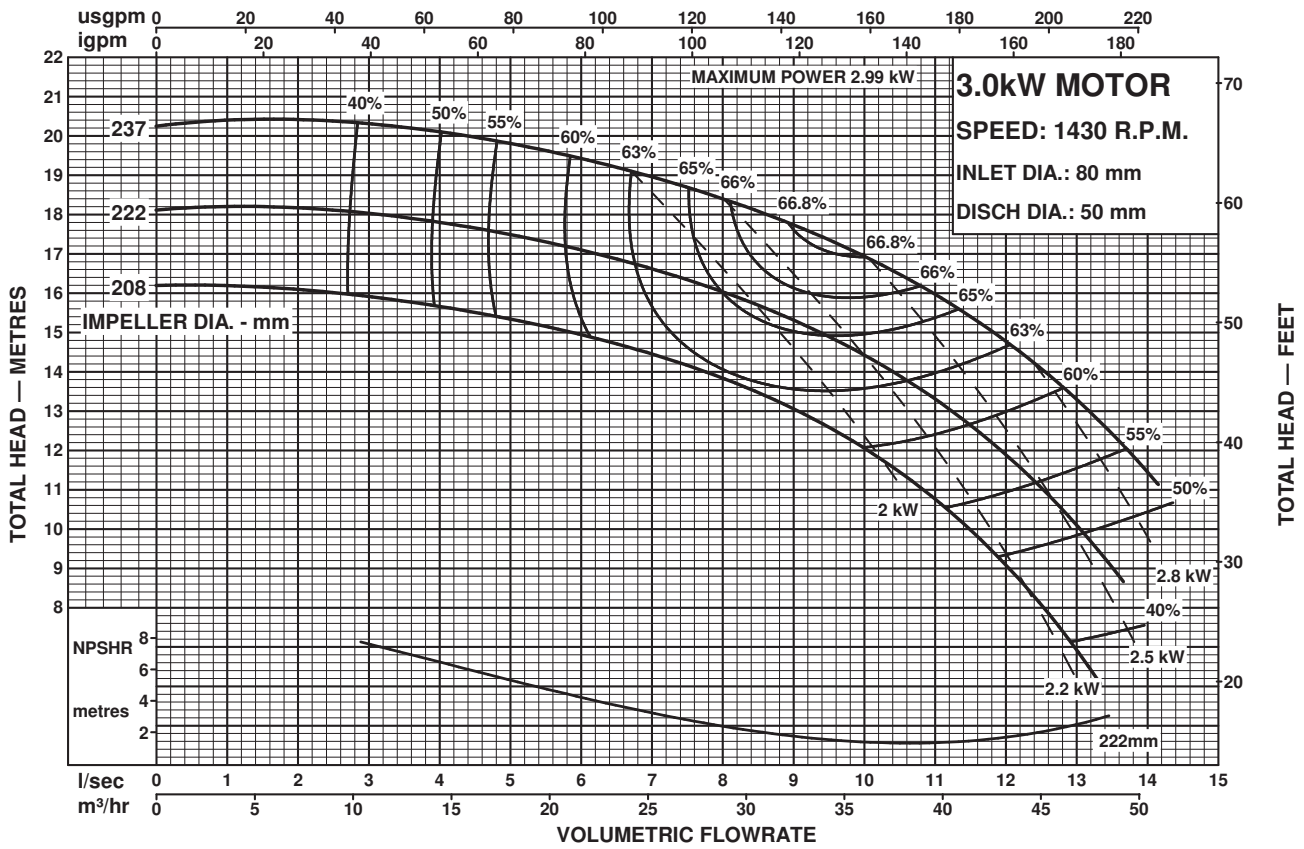
Performance to AS2417 Grade 2 for clean, cold water only.

May 2005

80 x 50-250



CENTRIFUGAL PUMP PERFORMANCE DATA



Performance to AS2417 Grade 2 for clean, cold water only.

May 2005

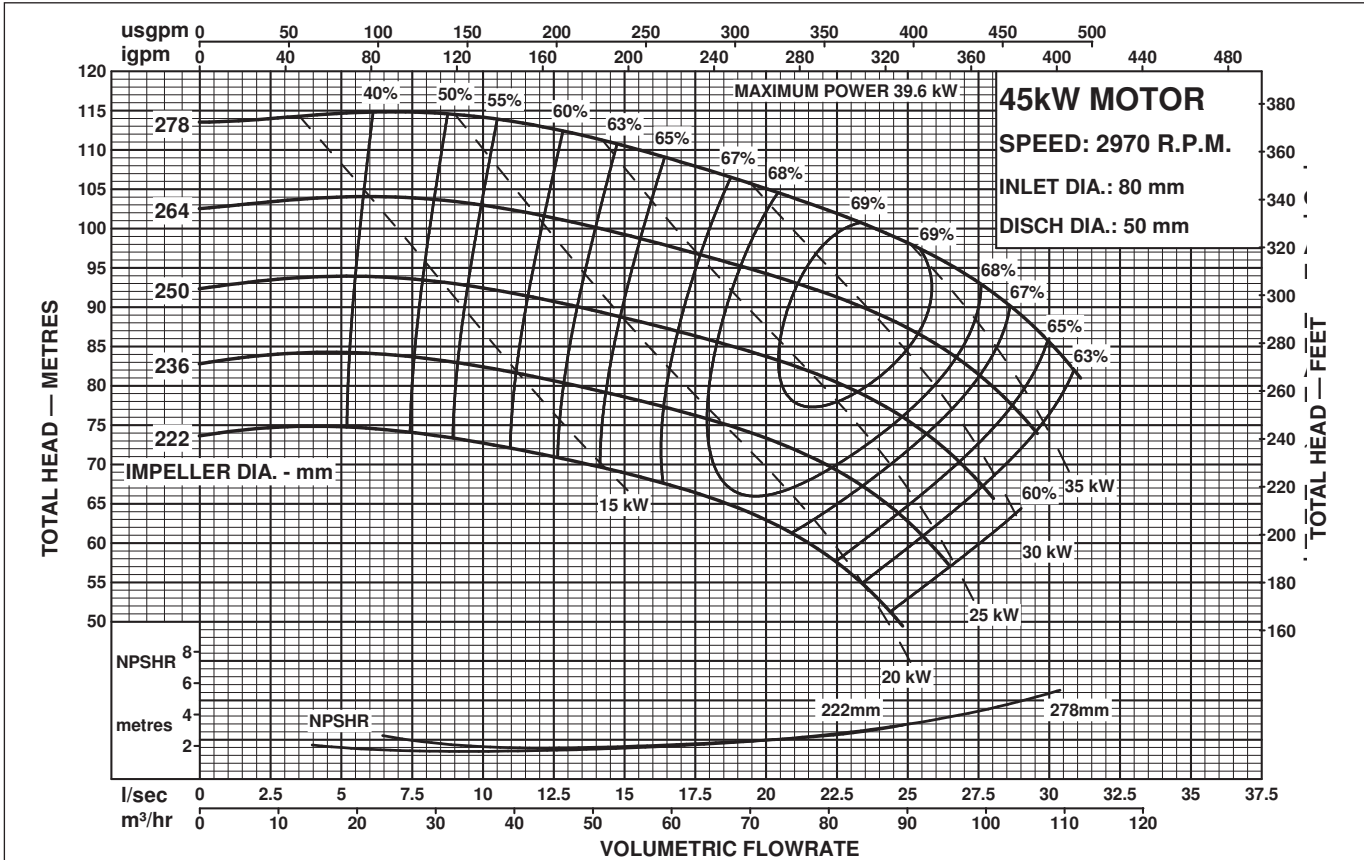
Performance to AS2417 Grade 2 for clean, cold water only.

May 2005

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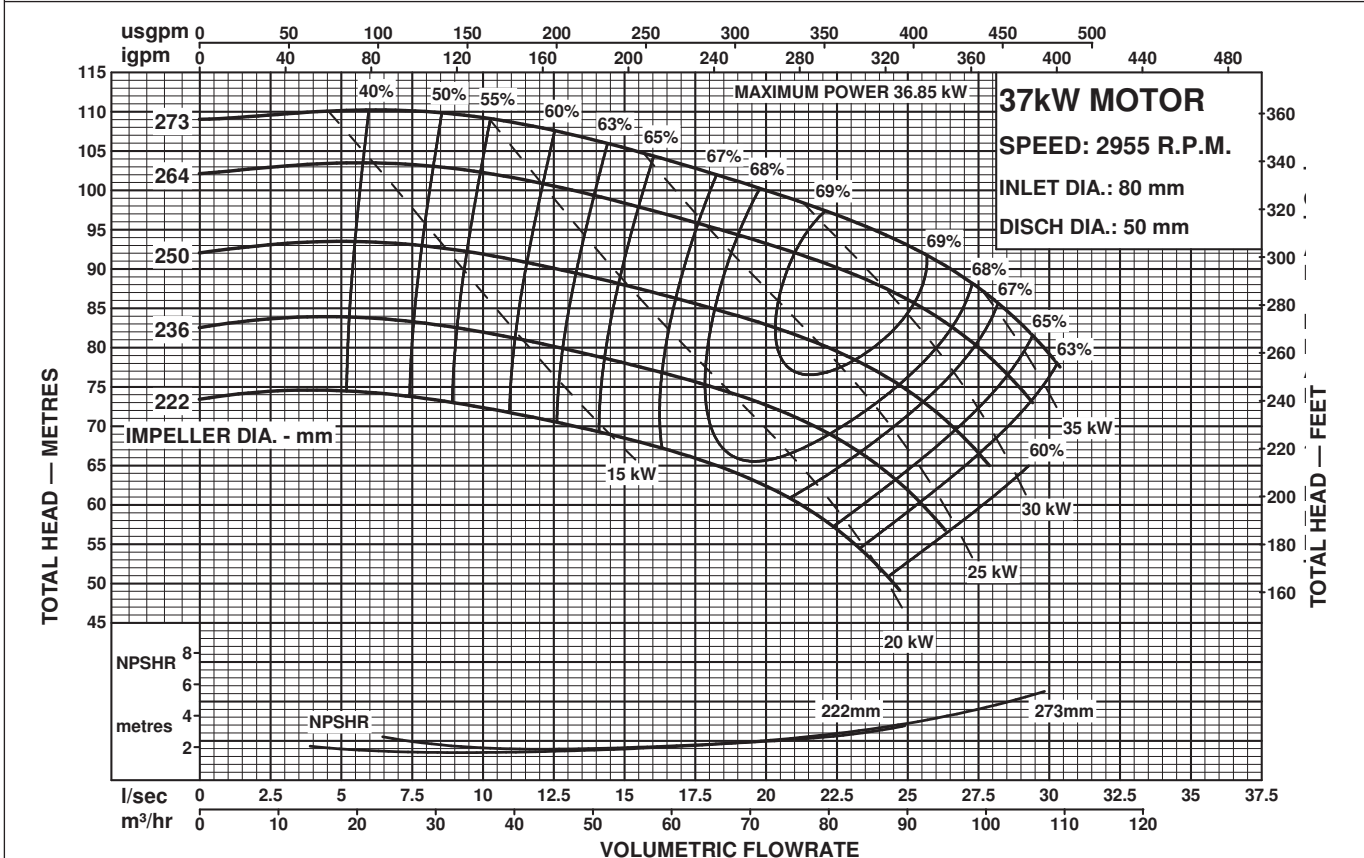


CENTRIFUGAL PUMP PERFORMANCE DATA



Performance to AS2417 Grade 2 for clean, cold water only.

May 2005



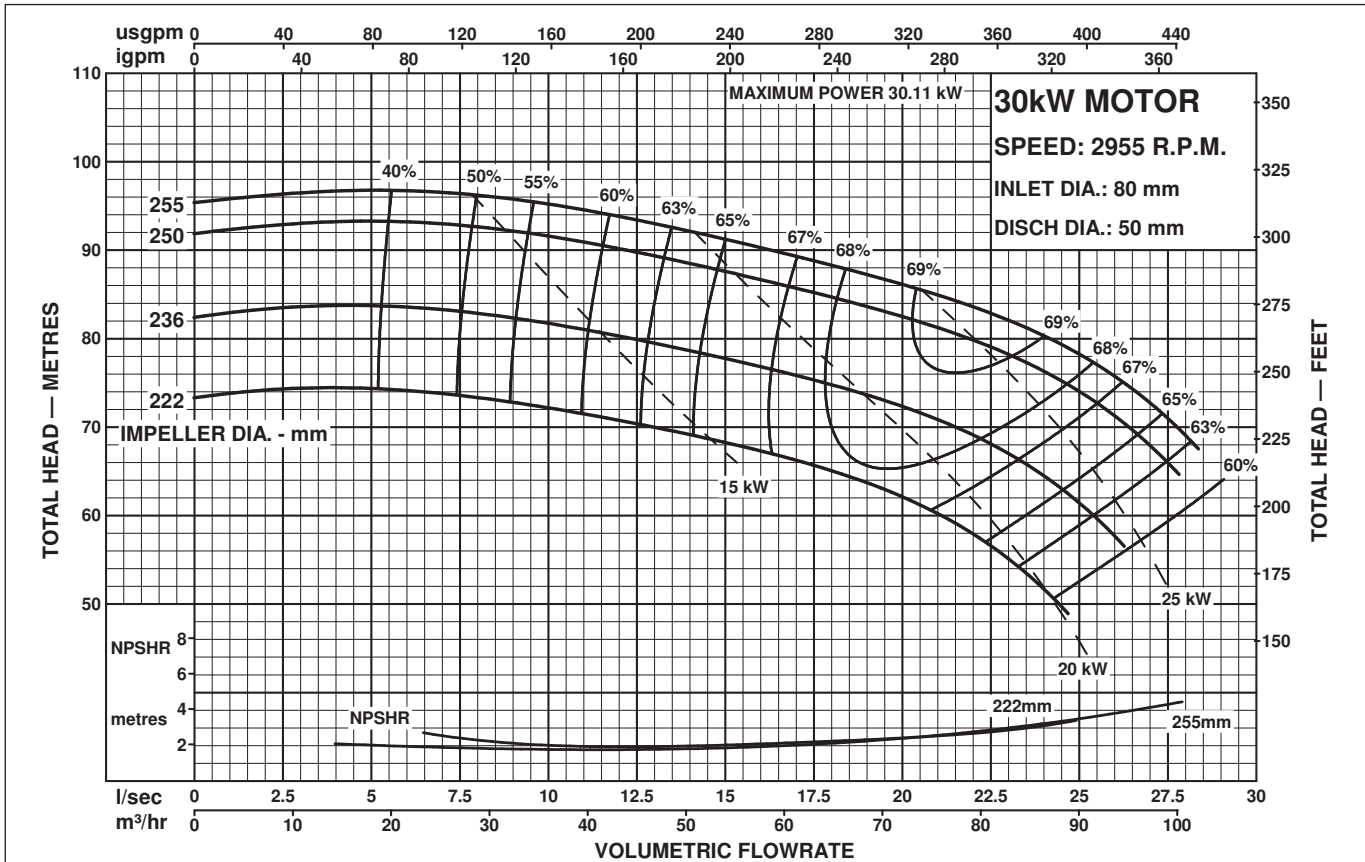
Performance to AS2417 Grade 2 for clean, cold water only.

May 2005

80 x 50-250

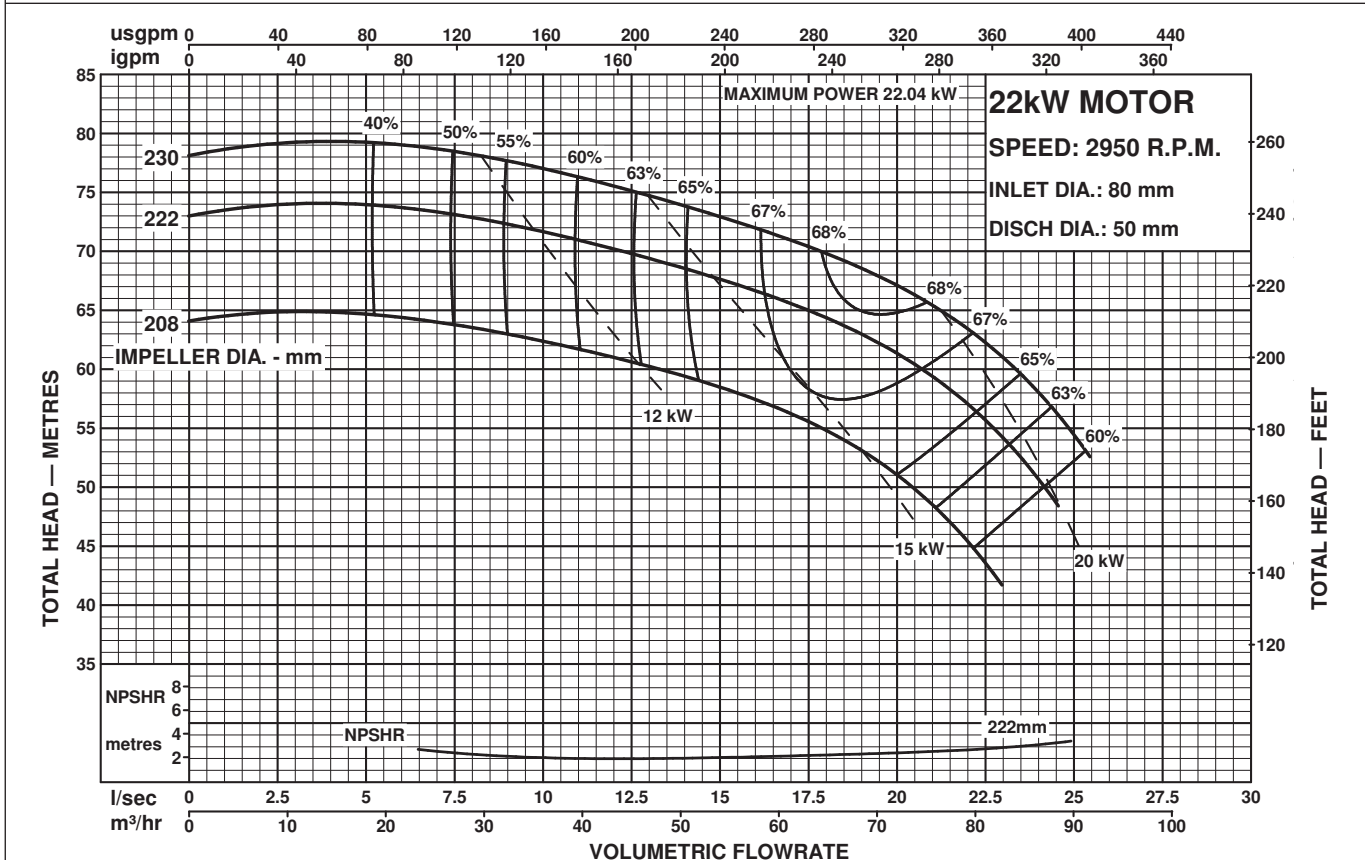


CENTRIFUGAL PUMP PERFORMANCE DATA



Performance to AS2417 Grade 2 for clean, cold water only.

May 2005

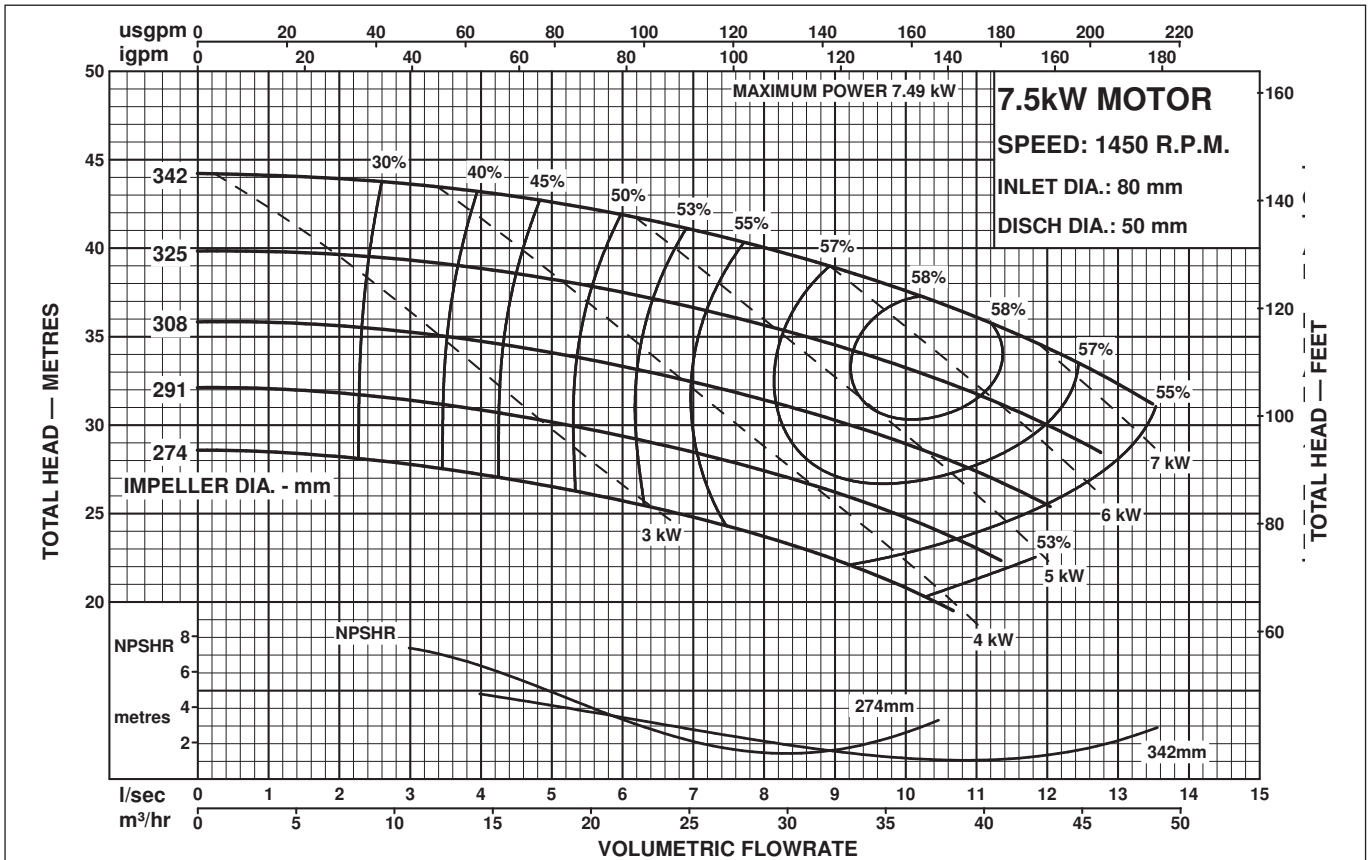
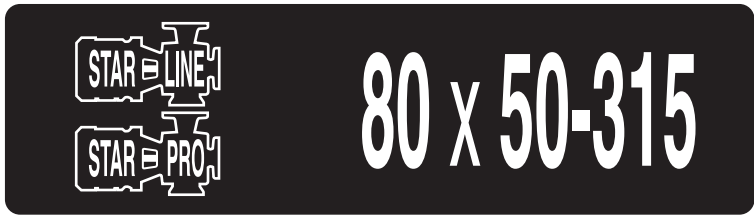


Performance to AS2417 Grade 2 for clean, cold water only.

May 2005

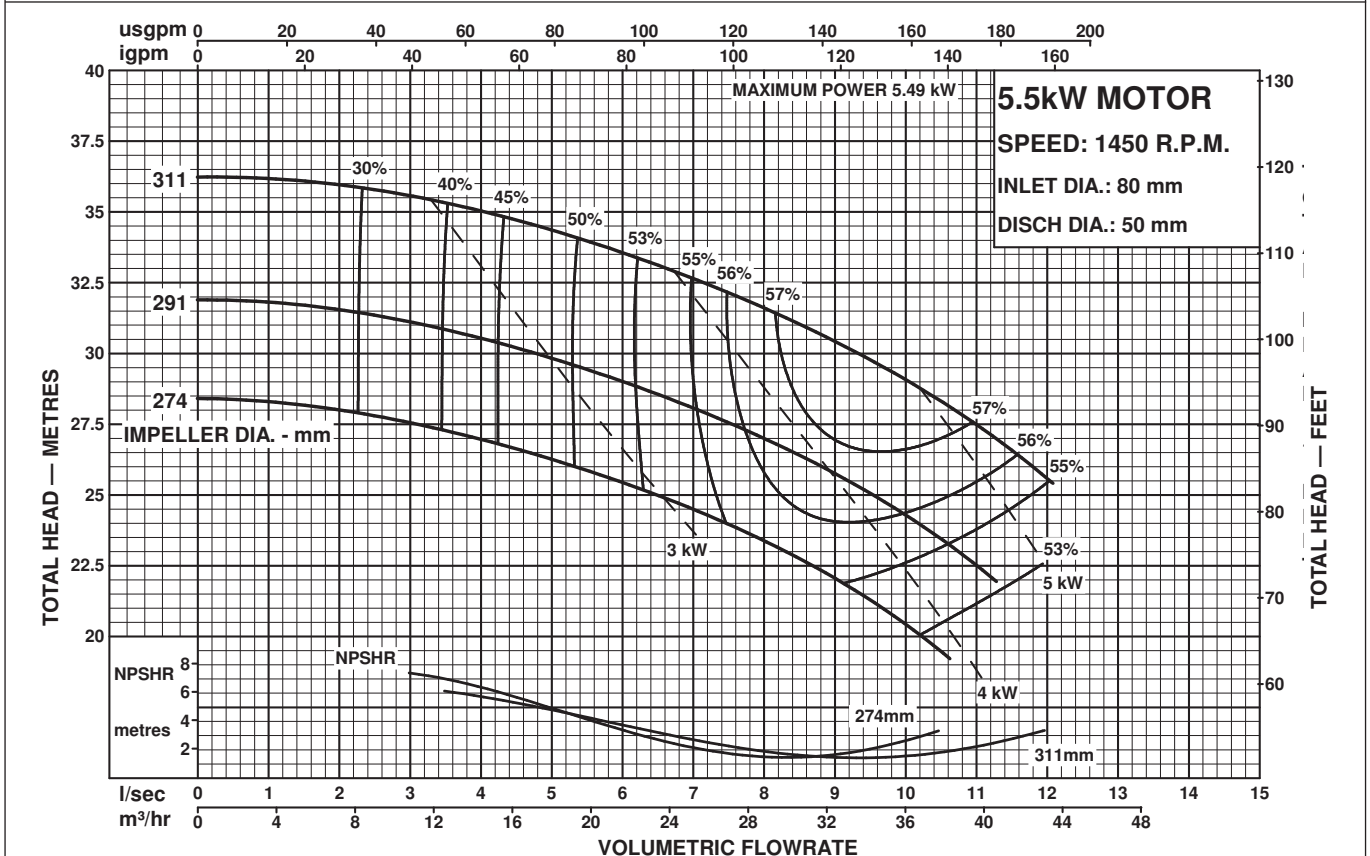


CENTRIFUGAL PUMP PERFORMANCE DATA



Performance to AS2417 Grade 2 for clean, cold water only.

May 2005



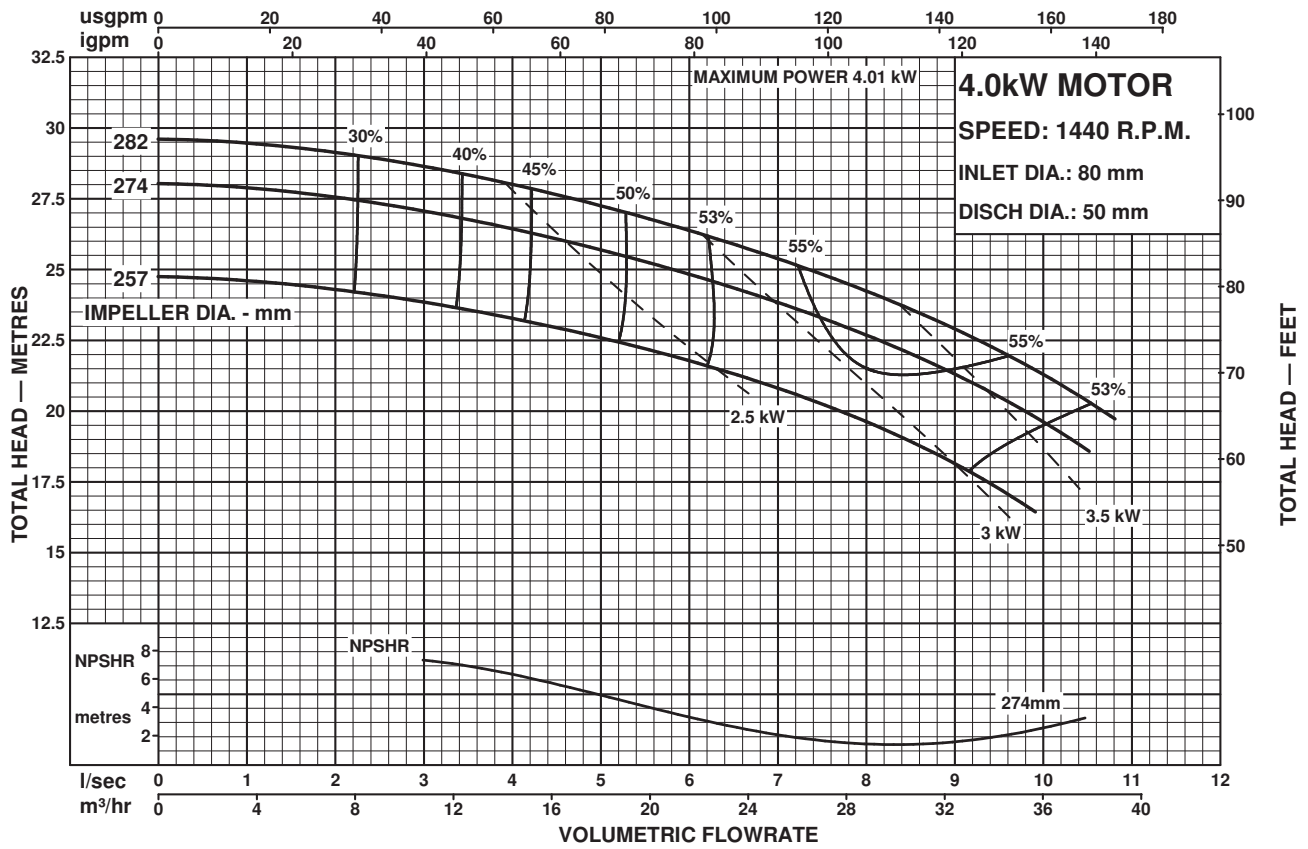
Performance to AS2417 Grade 2 for clean, cold water only.

May 2005

80 x 50-315



CENTRIFUGAL PUMP PERFORMANCE DATA



Performance to AS2417 Grade 2 for clean, cold water only.

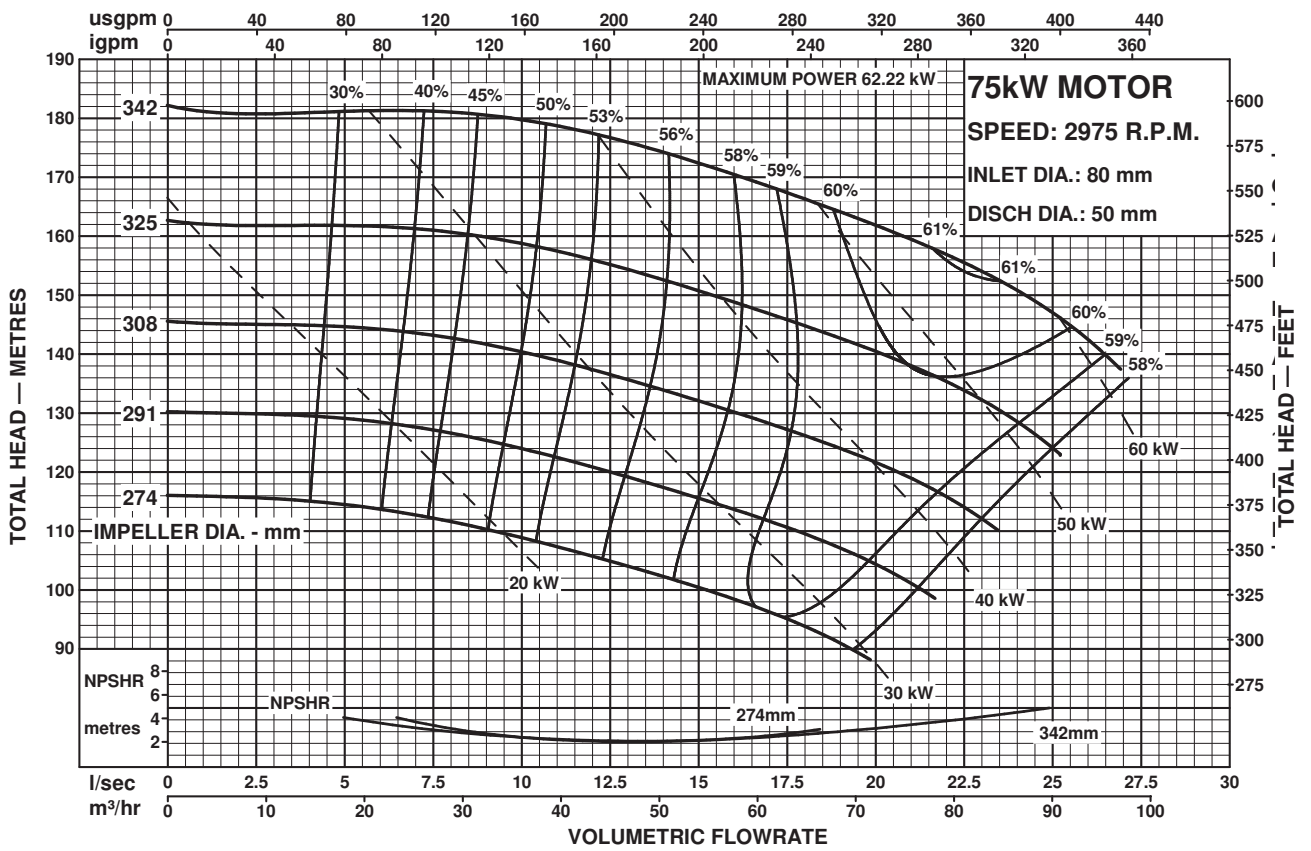
May 2005

Performance to AS2417 Grade 2 for clean, cold water only.

May 2005

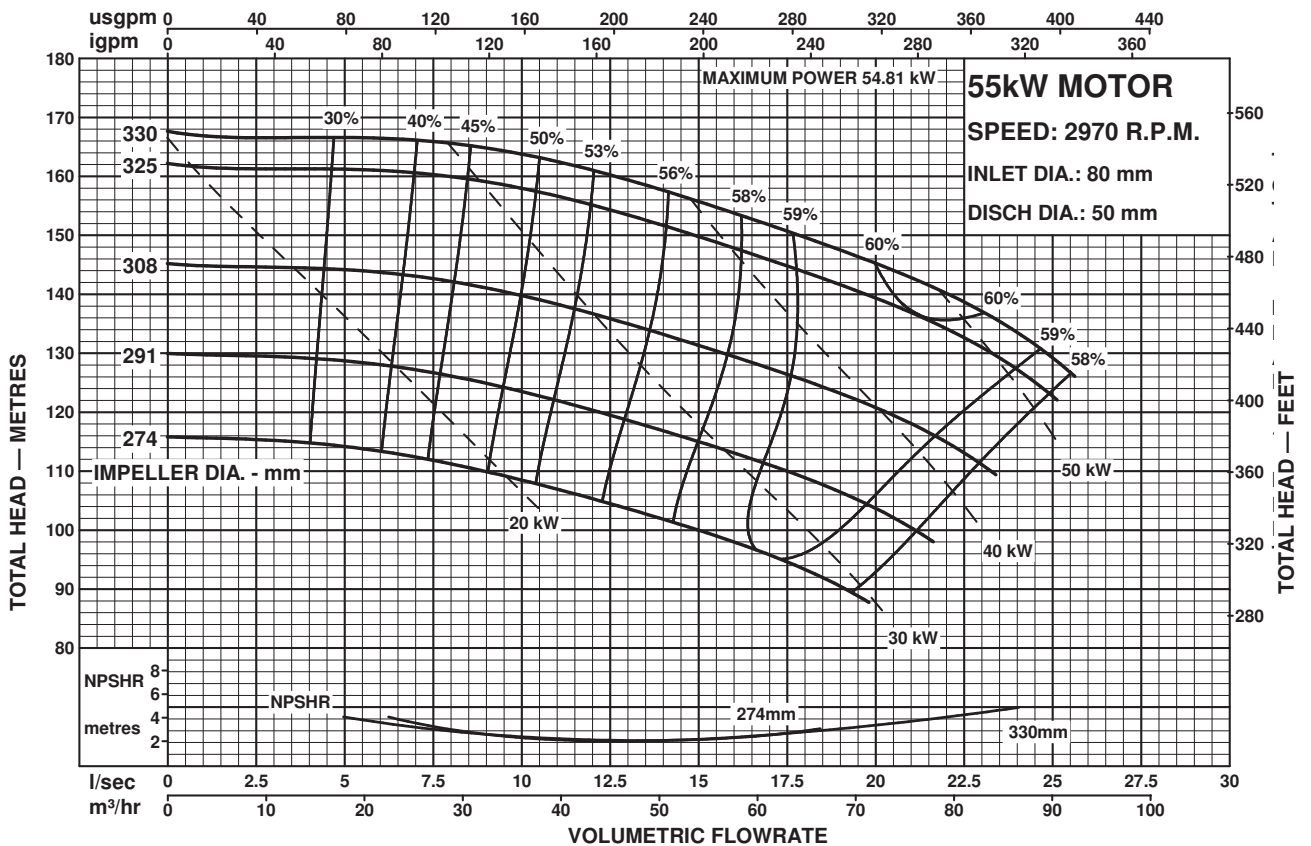


CENTRIFUGAL PUMP PERFORMANCE DATA



Performance to AS2417 Grade 2 for clean, cold water only.

May 2005



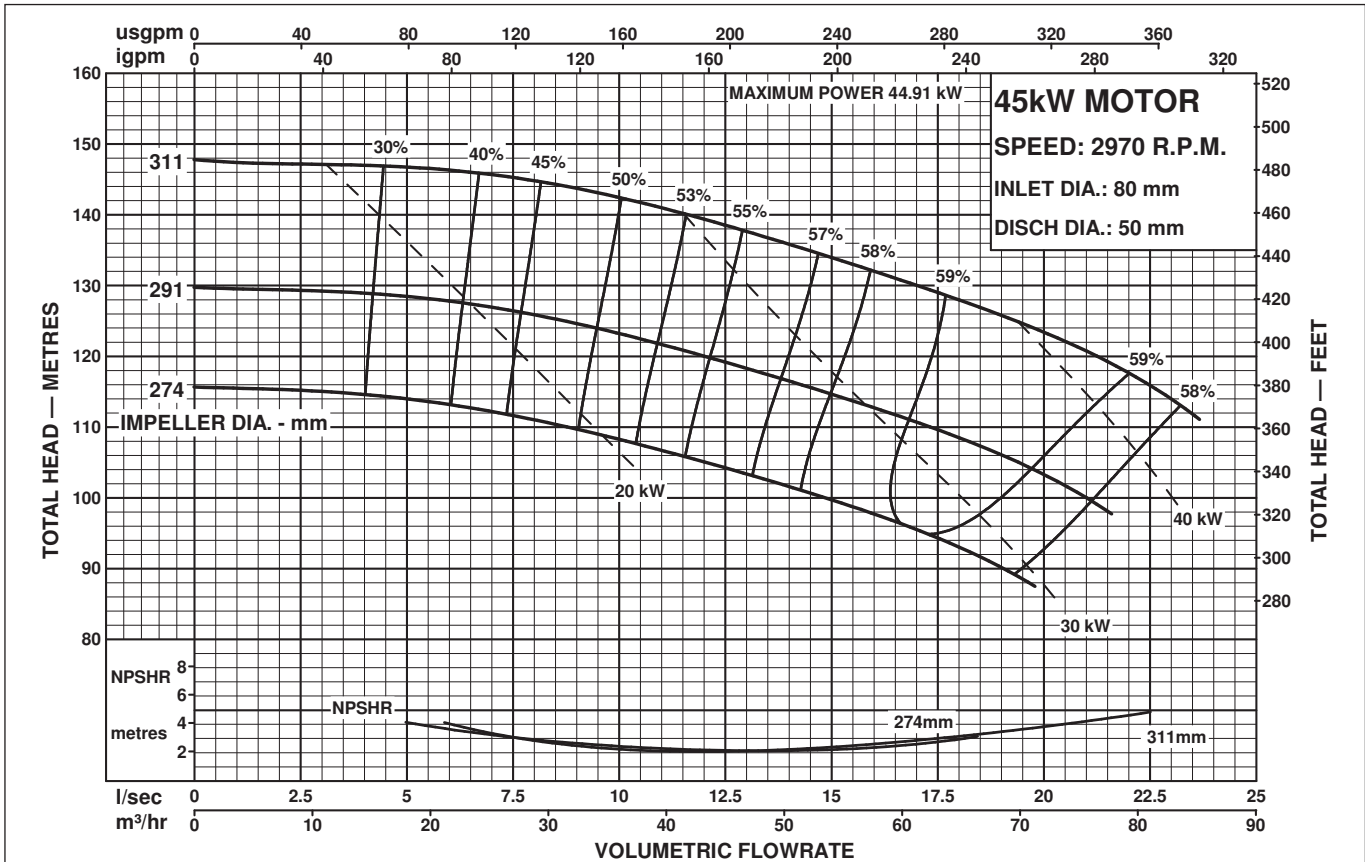
Performance to AS2417 Grade 2 for clean, cold water only.

May 2005

80 x 50-315

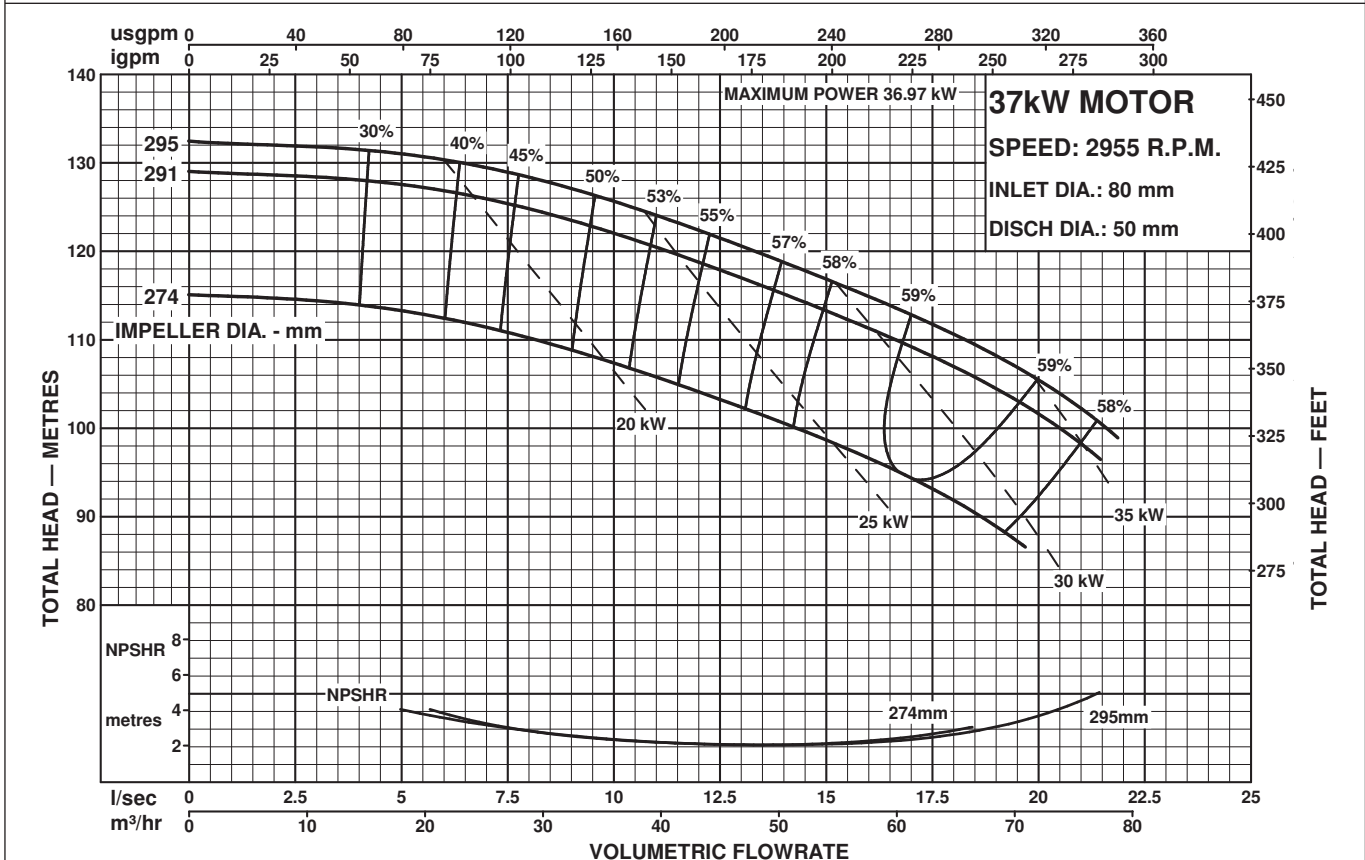


CENTRIFUGAL PUMP PERFORMANCE DATA



Performance to AS2417 Grade 2 for clean, cold water only.

May 2005



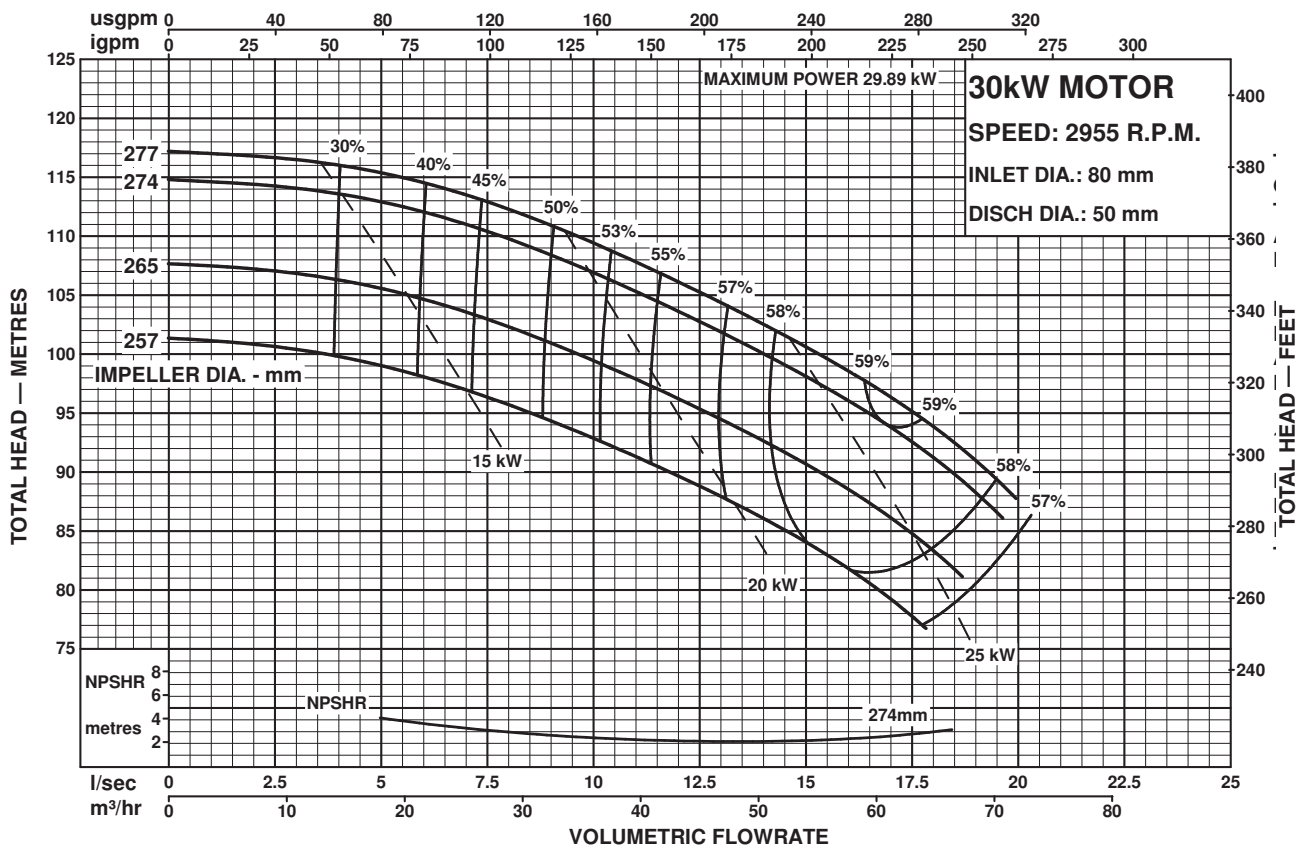
Performance to AS2417 Grade 2 for clean, cold water only.

May 2005



CENTRIFUGAL PUMP PERFORMANCE DATA

80 x 50-315



Performance to AS2417 Grade 2 for clean, cold water only.

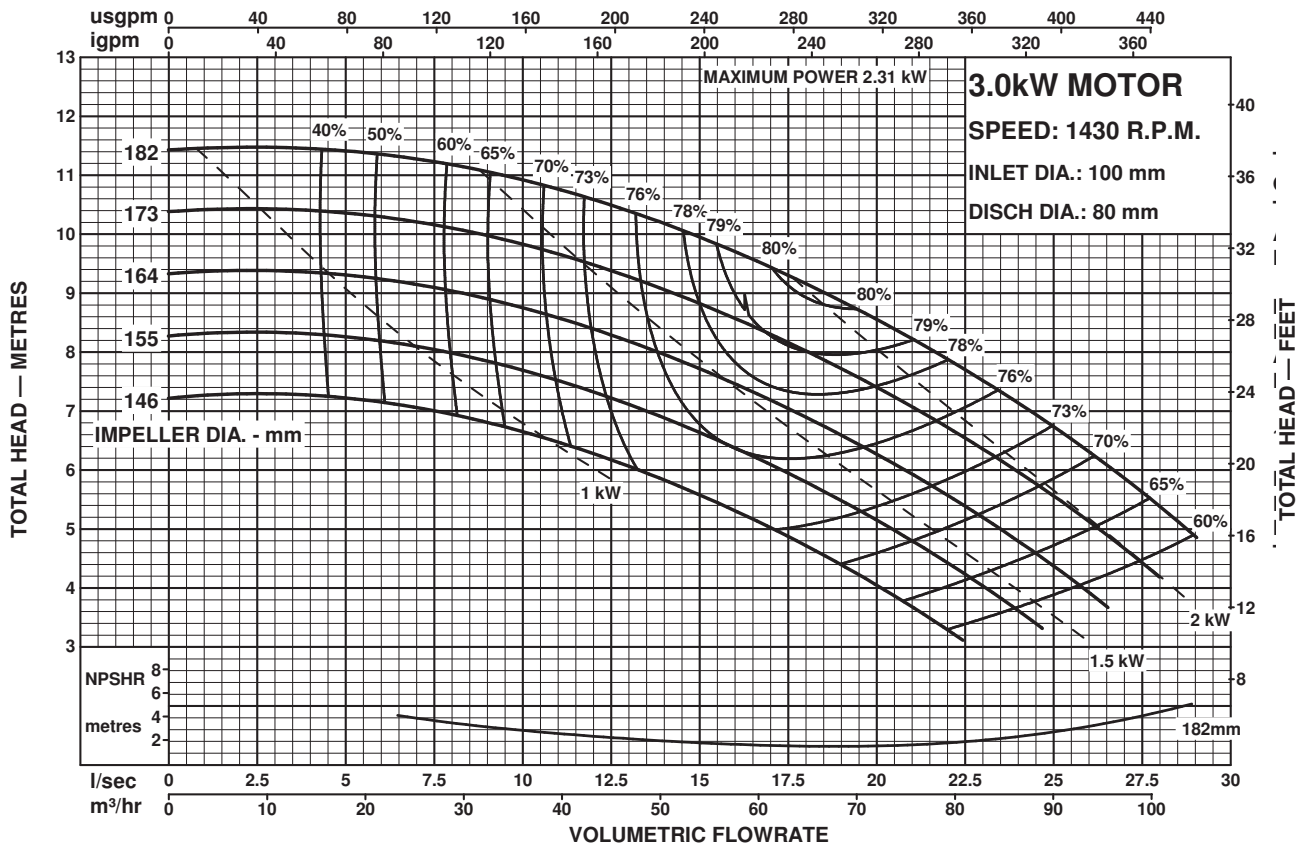
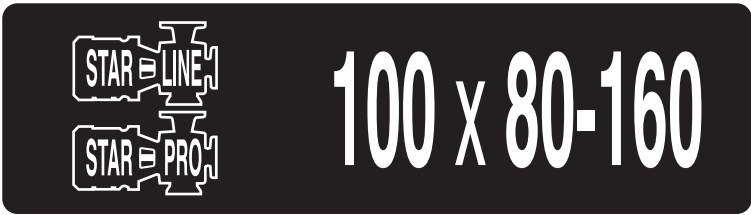
May 2005

Performance to AS2417 Grade 2 for clean, cold water only.

May 2005

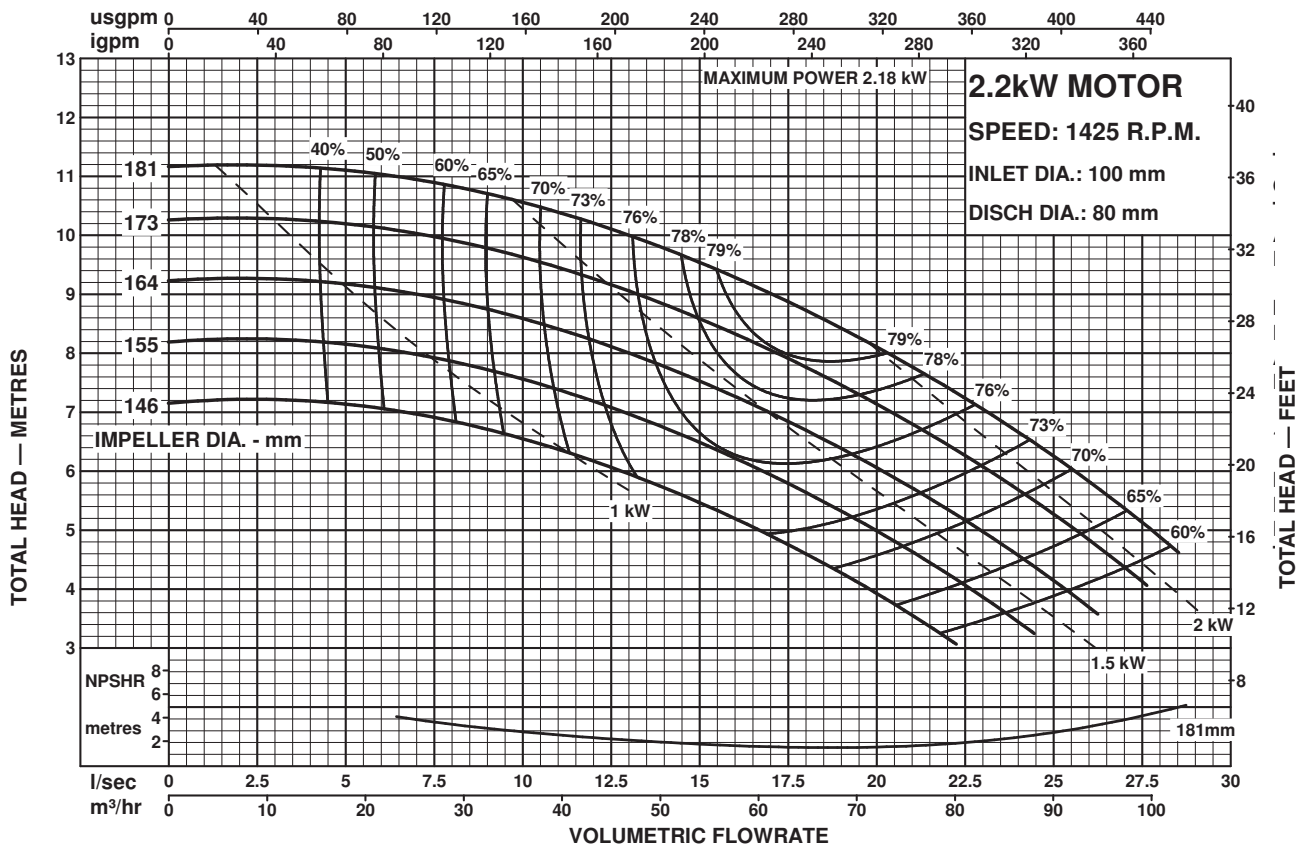


CENTRIFUGAL PUMP PERFORMANCE DATA



Performance to AS2417 Grade 2 for clean, cold water only.

May 2005



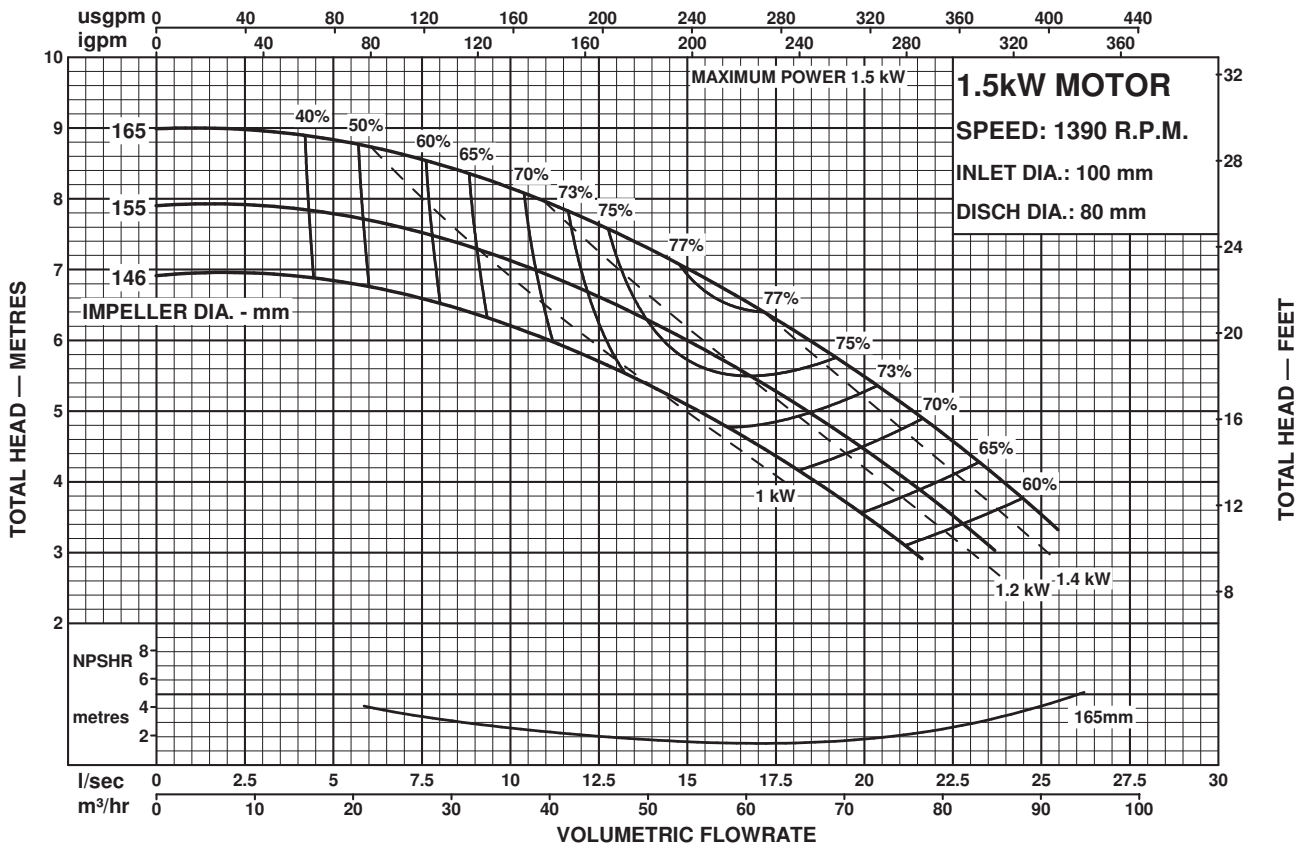
Performance to AS2417 Grade 2 for clean, cold water only.

May 2005

100 x 80-160

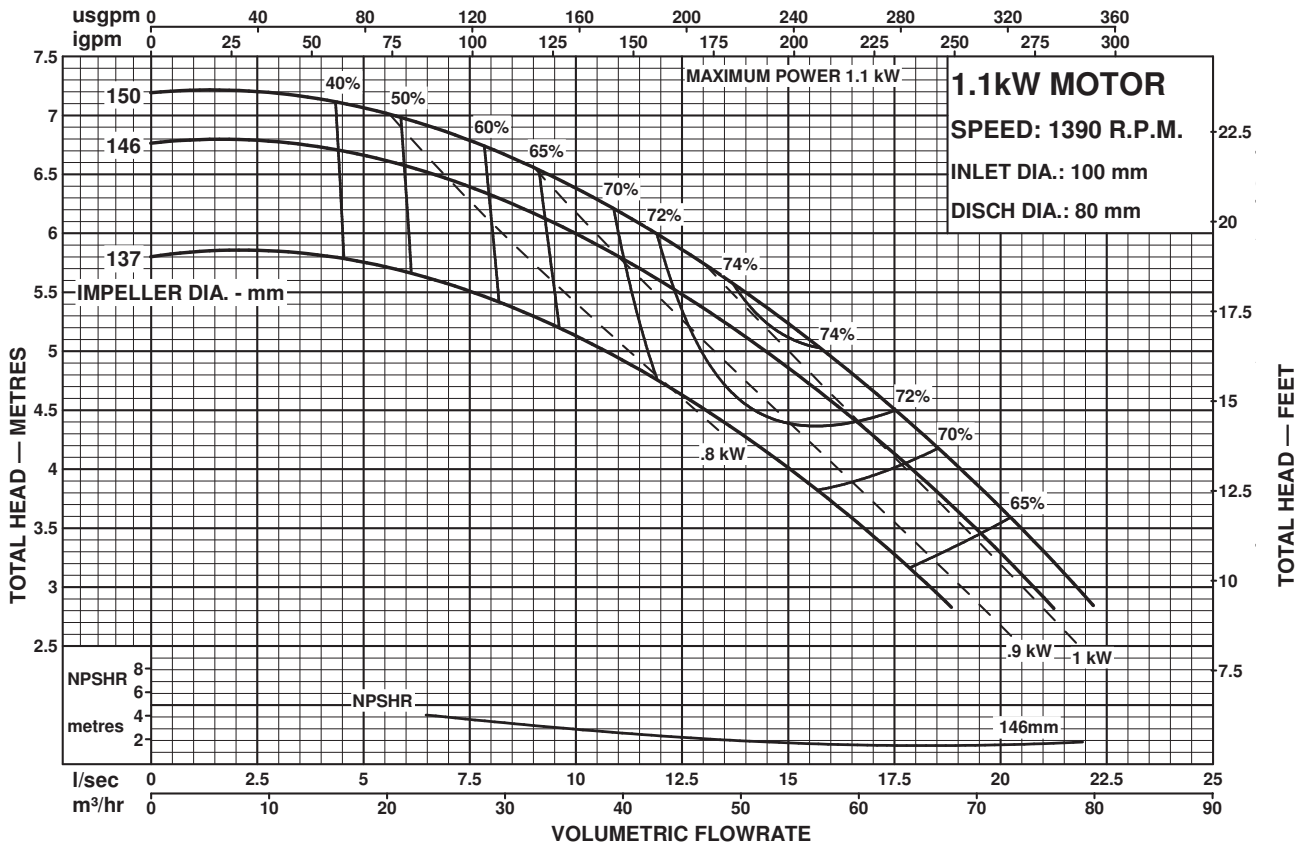


CENTRIFUGAL PUMP PERFORMANCE DATA



Performance to AS2417 Grade 2 for clean, cold water only.

May 2005

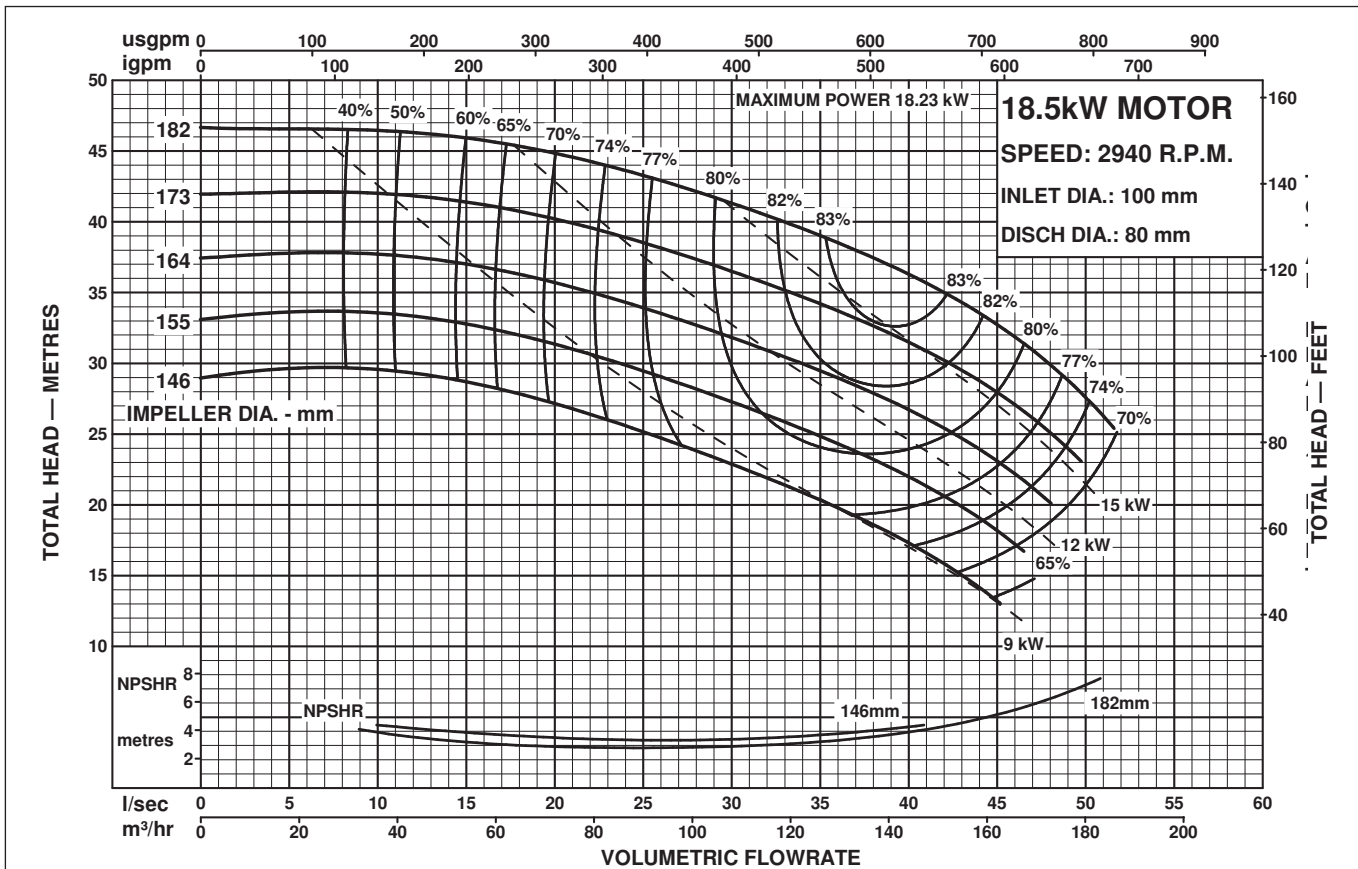
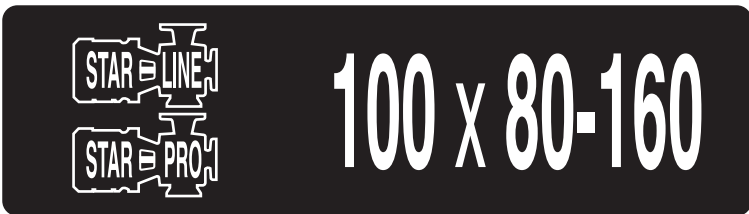


Performance to AS2417 Grade 2 for clean, cold water only.

May 2005

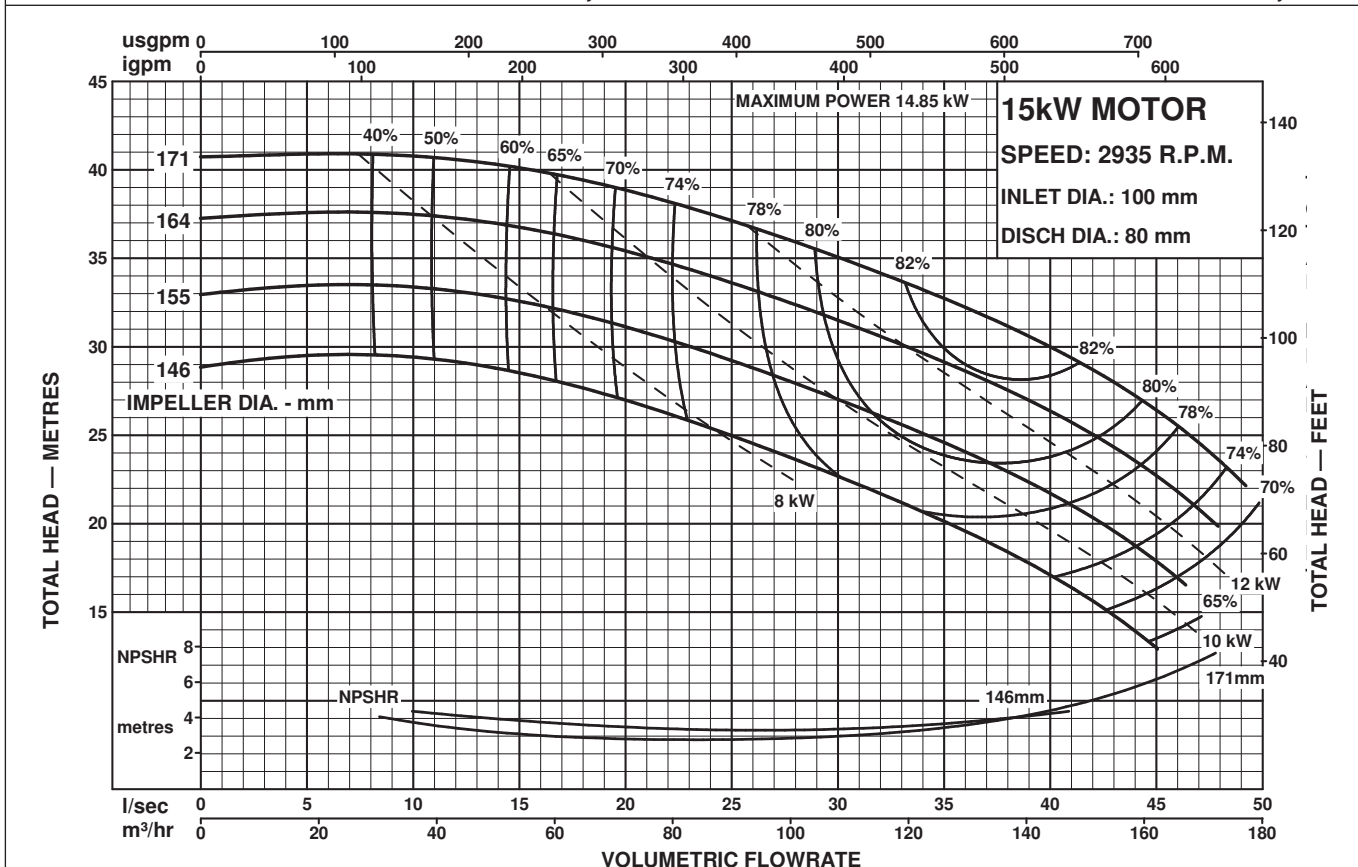


CENTRIFUGAL PUMP PERFORMANCE DATA



Performance to AS2417 Grade 2 for clean, cold water only.

May 2005



Performance to AS2417 Grade 2 for clean, cold water only.

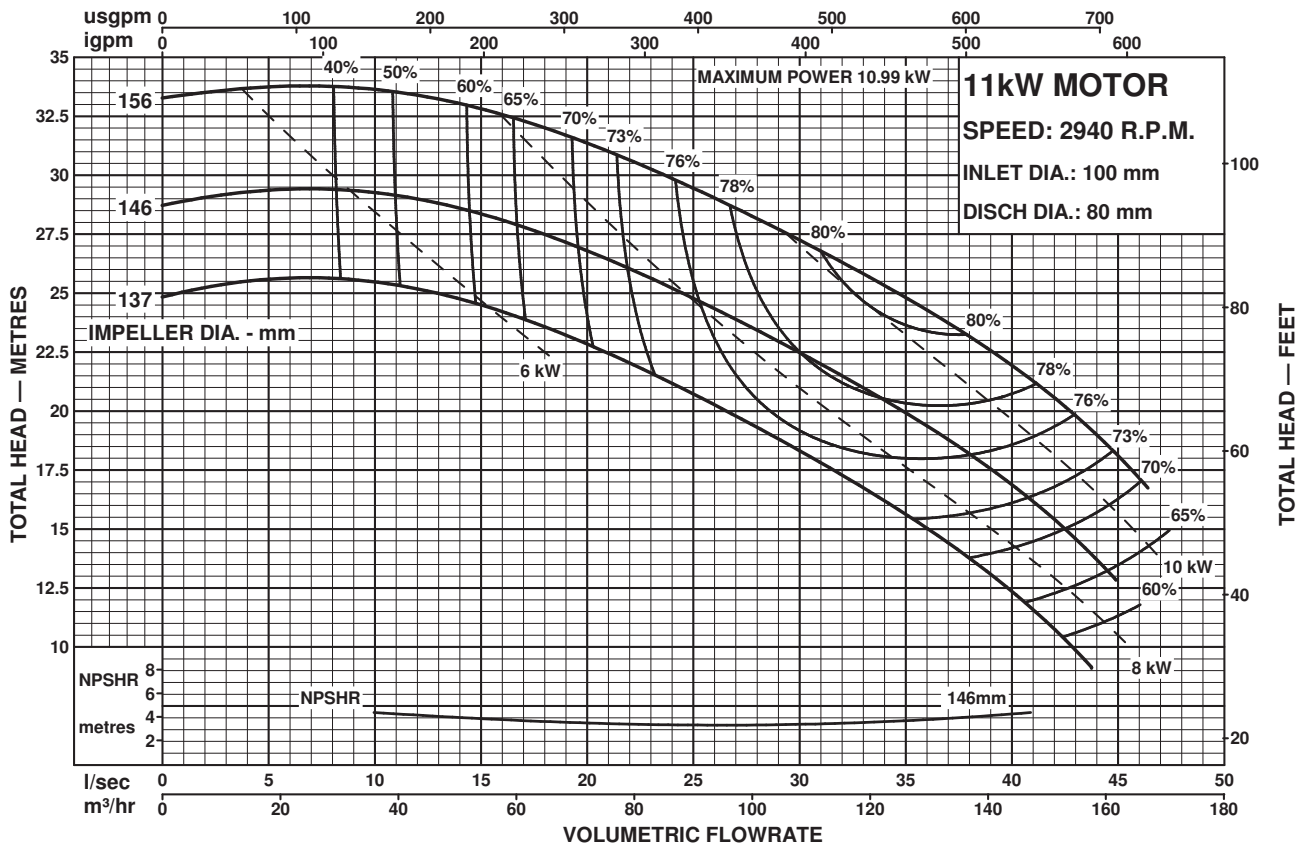
May 2005

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100 x 80-160



CENTRIFUGAL PUMP PERFORMANCE DATA



Performance to AS2417 Grade 2 for clean, cold water only.

May 2005

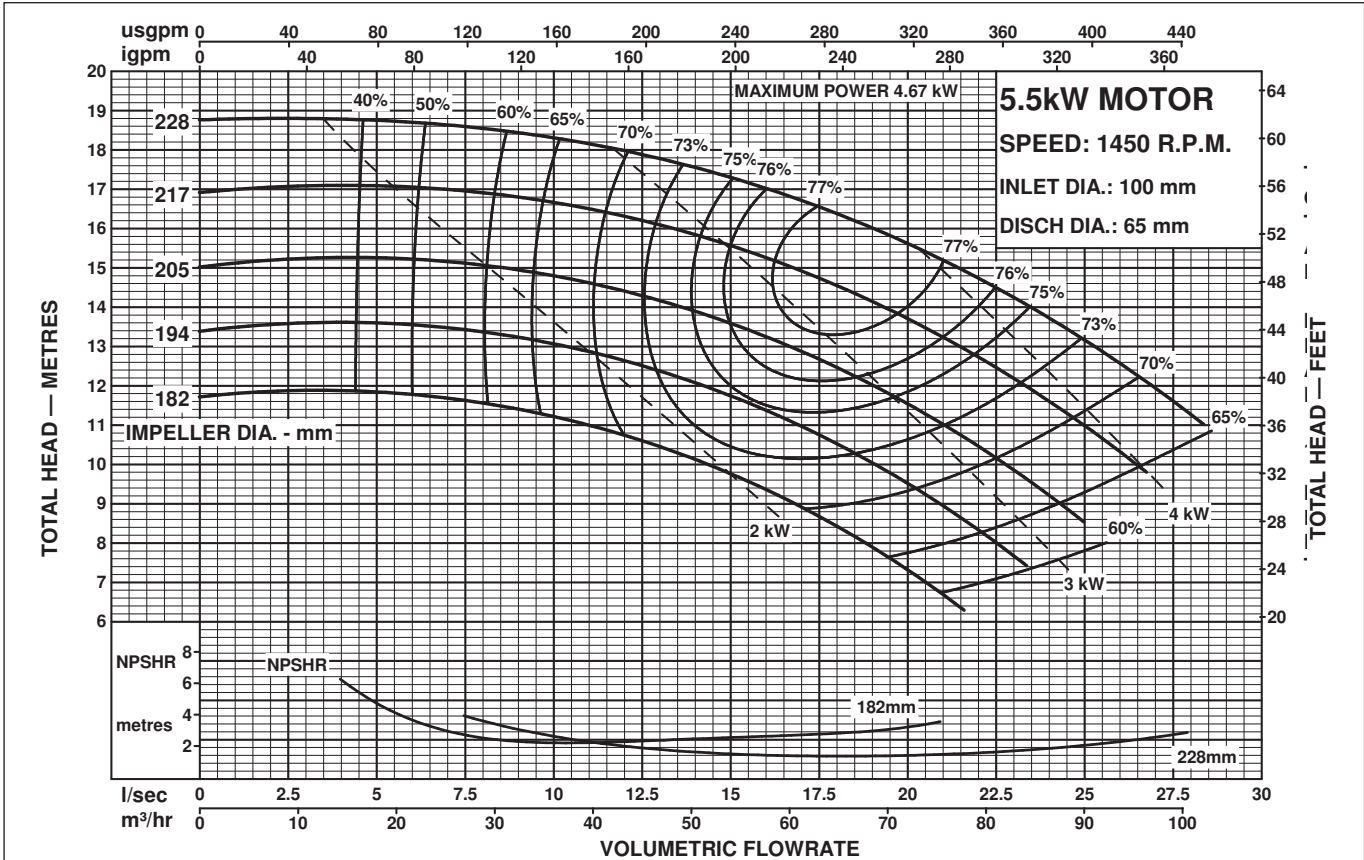
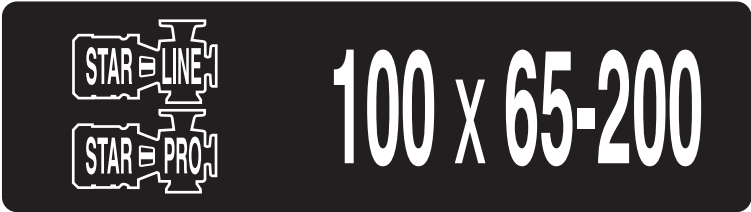
Performance to AS2417 Grade 2 for clean, cold water only.

May 2005

A division of **tyco** Flow Control Pacific Pty Ltd A.B.N. 83 000 922 690

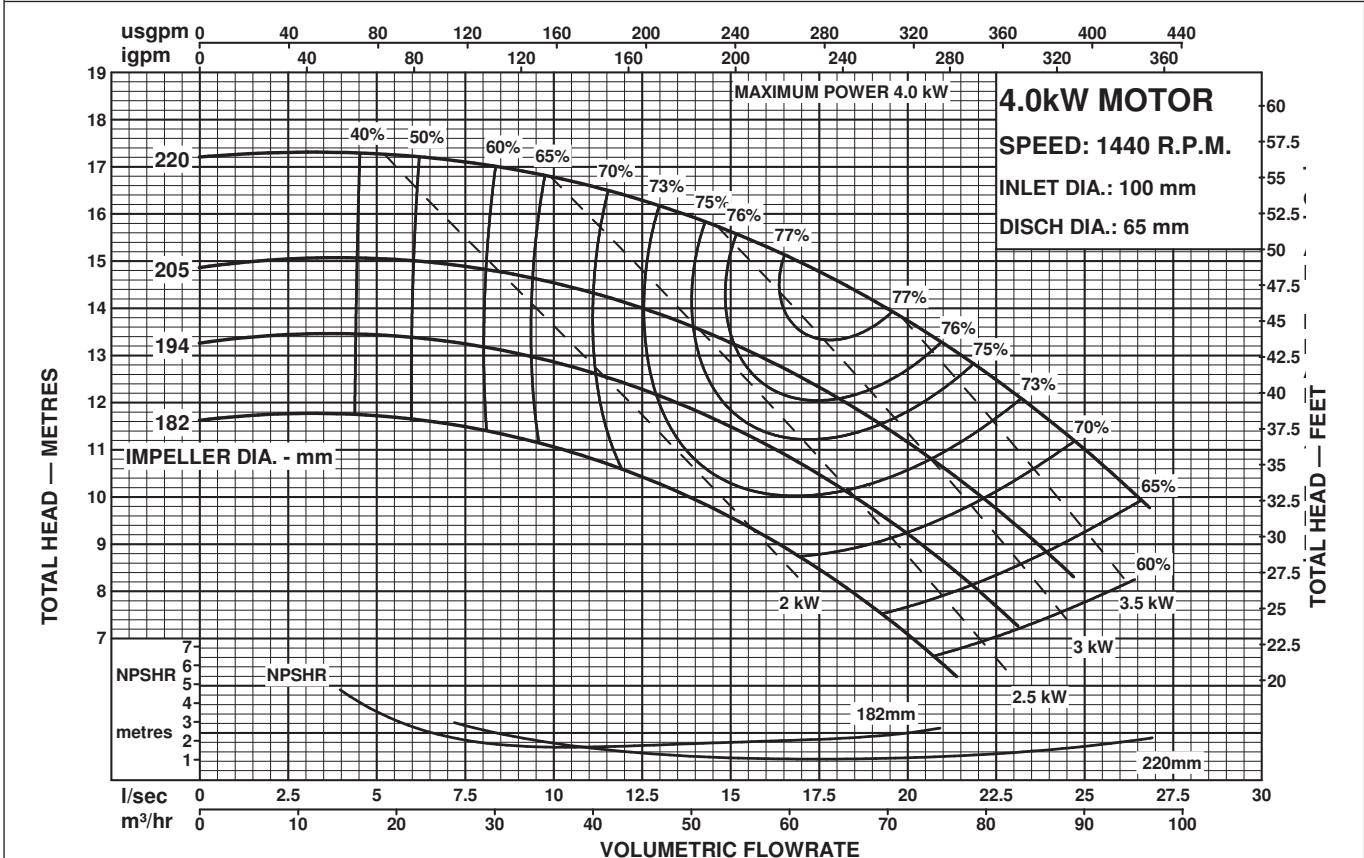


CENTRIFUGAL PUMP PERFORMANCE DATA



Performance to AS2417 Grade 2 for clean, cold water only.

May 2005



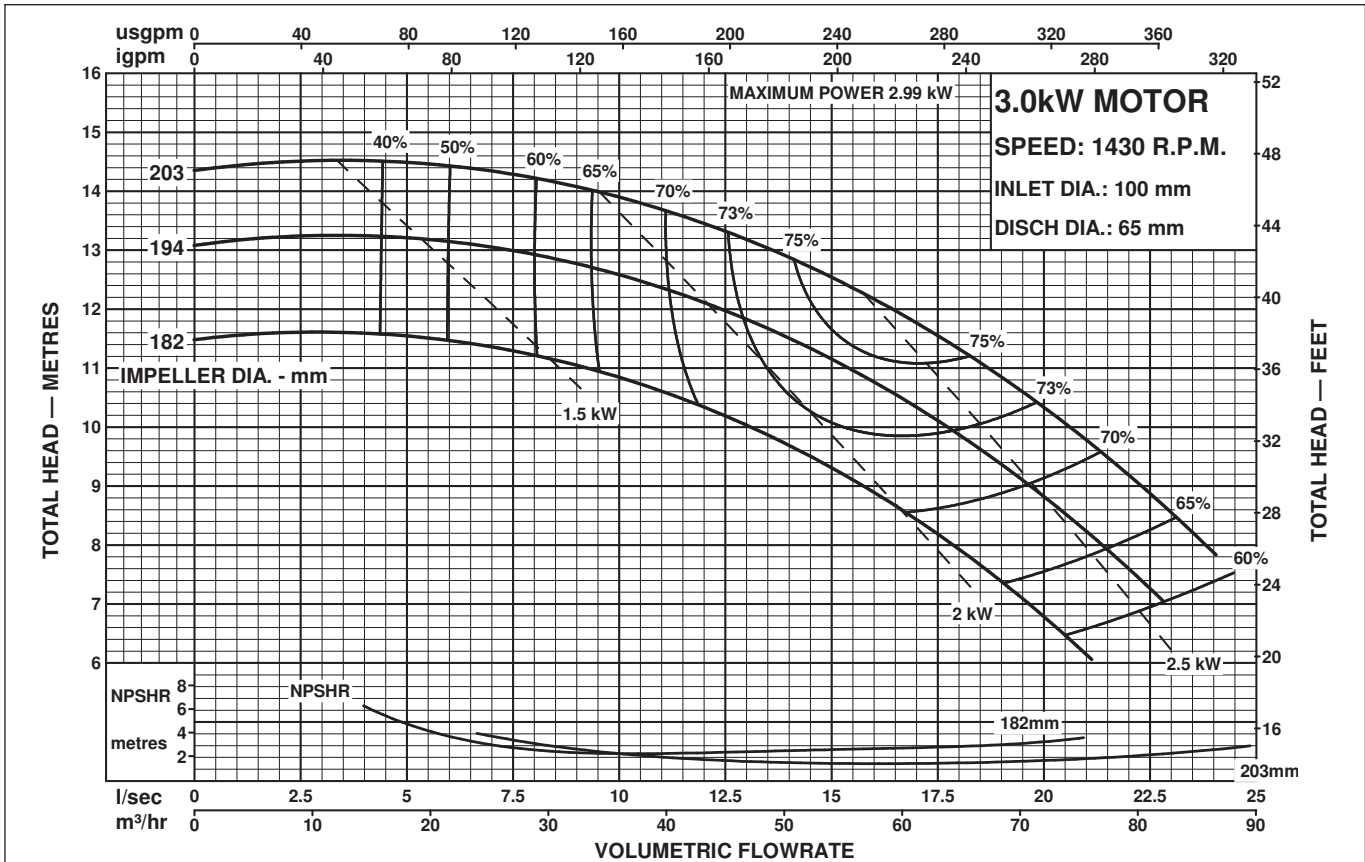
Performance to AS2417 Grade 2 for clean, cold water only.

May 2005

100 x 65-200

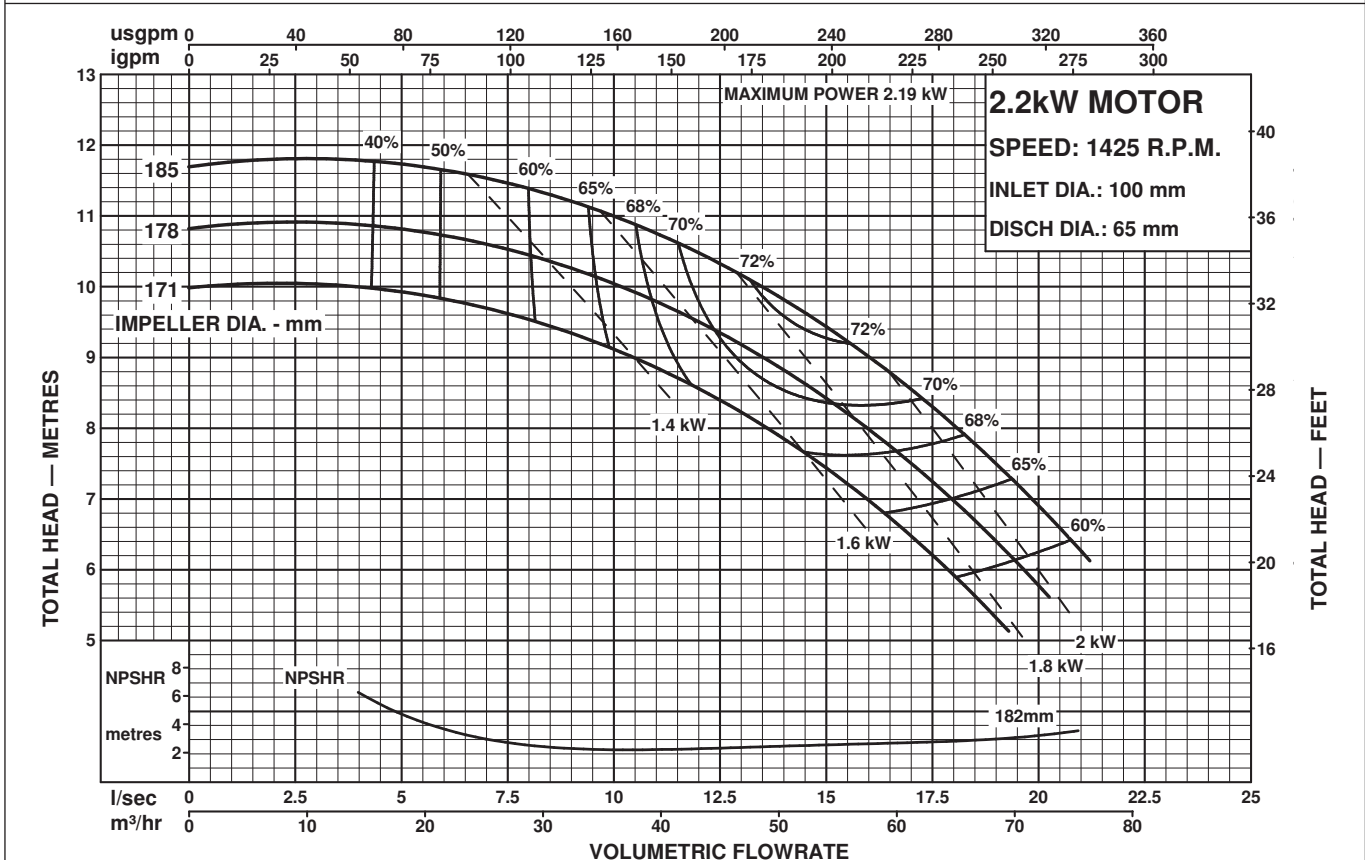


CENTRIFUGAL PUMP PERFORMANCE DATA



Performance to AS2417 Grade 2 for clean, cold water only.

May 2005

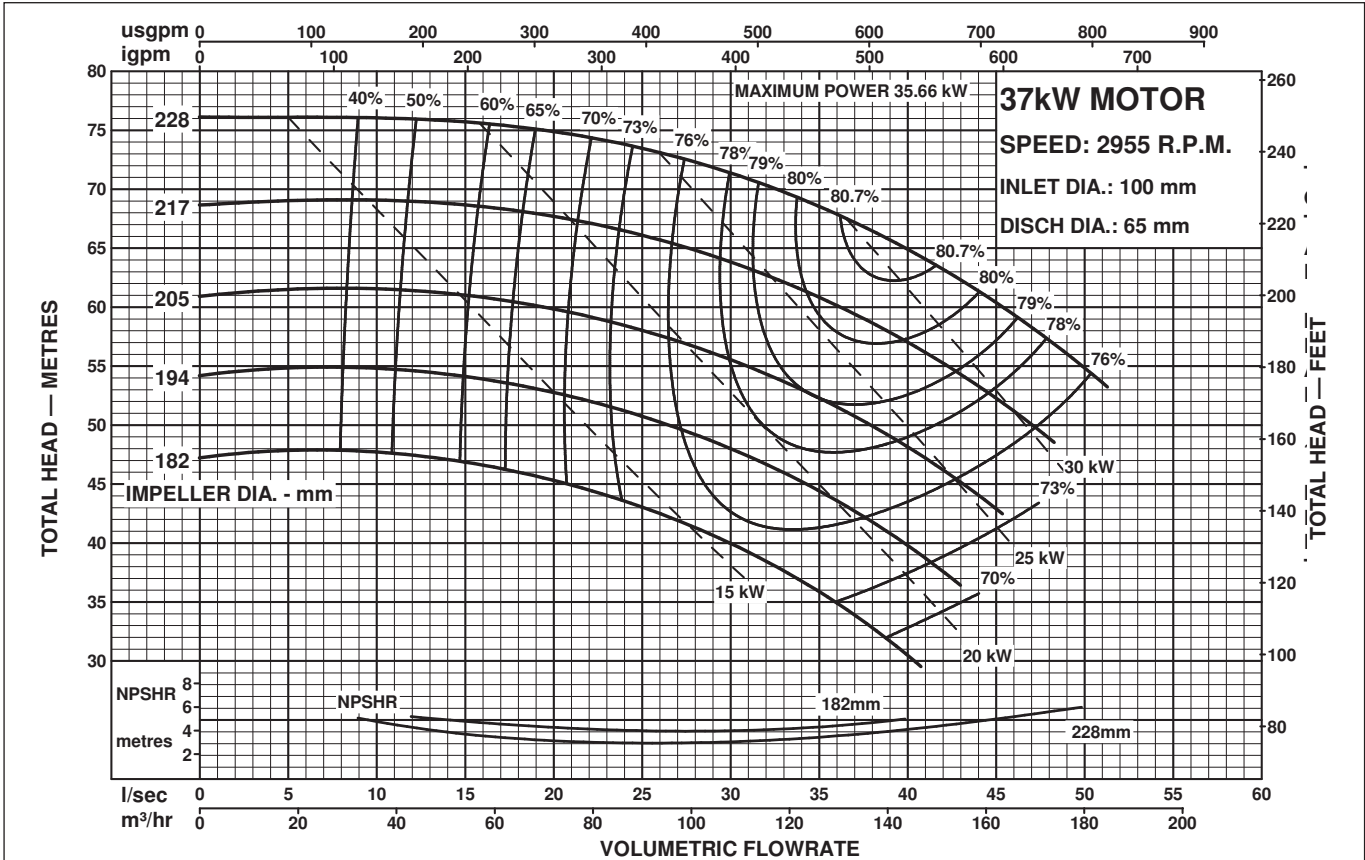
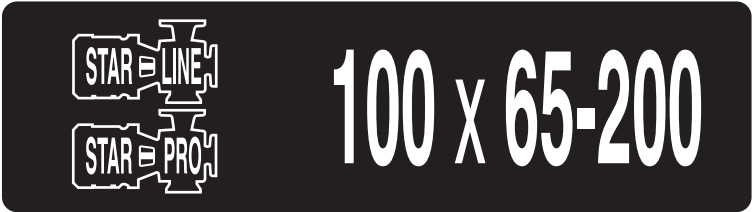


Performance to AS2417 Grade 2 for clean, cold water only.

May 2005

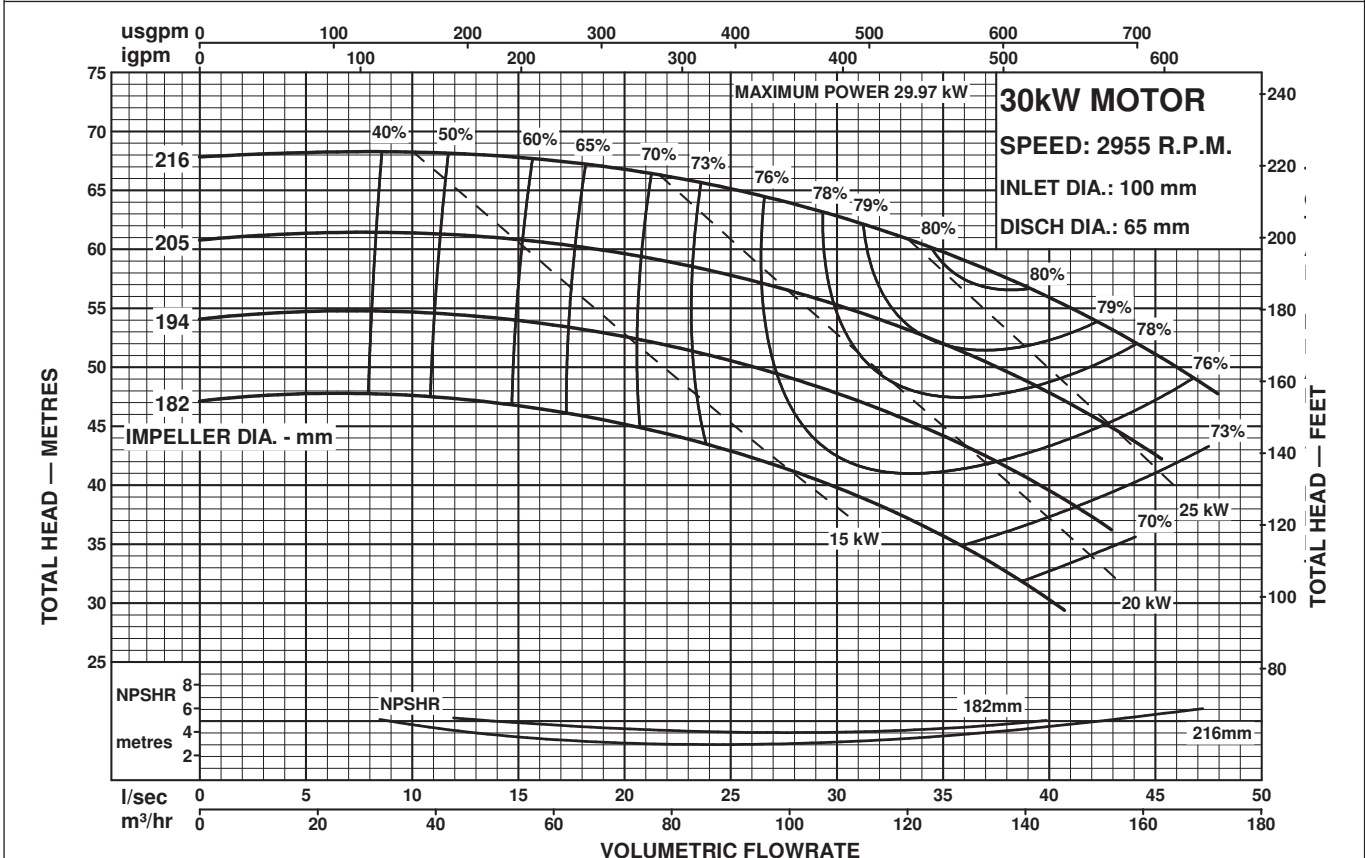


CENTRIFUGAL PUMP PERFORMANCE DATA



Performance to AS2417 Grade 2 for clean, cold water only.

May 2005



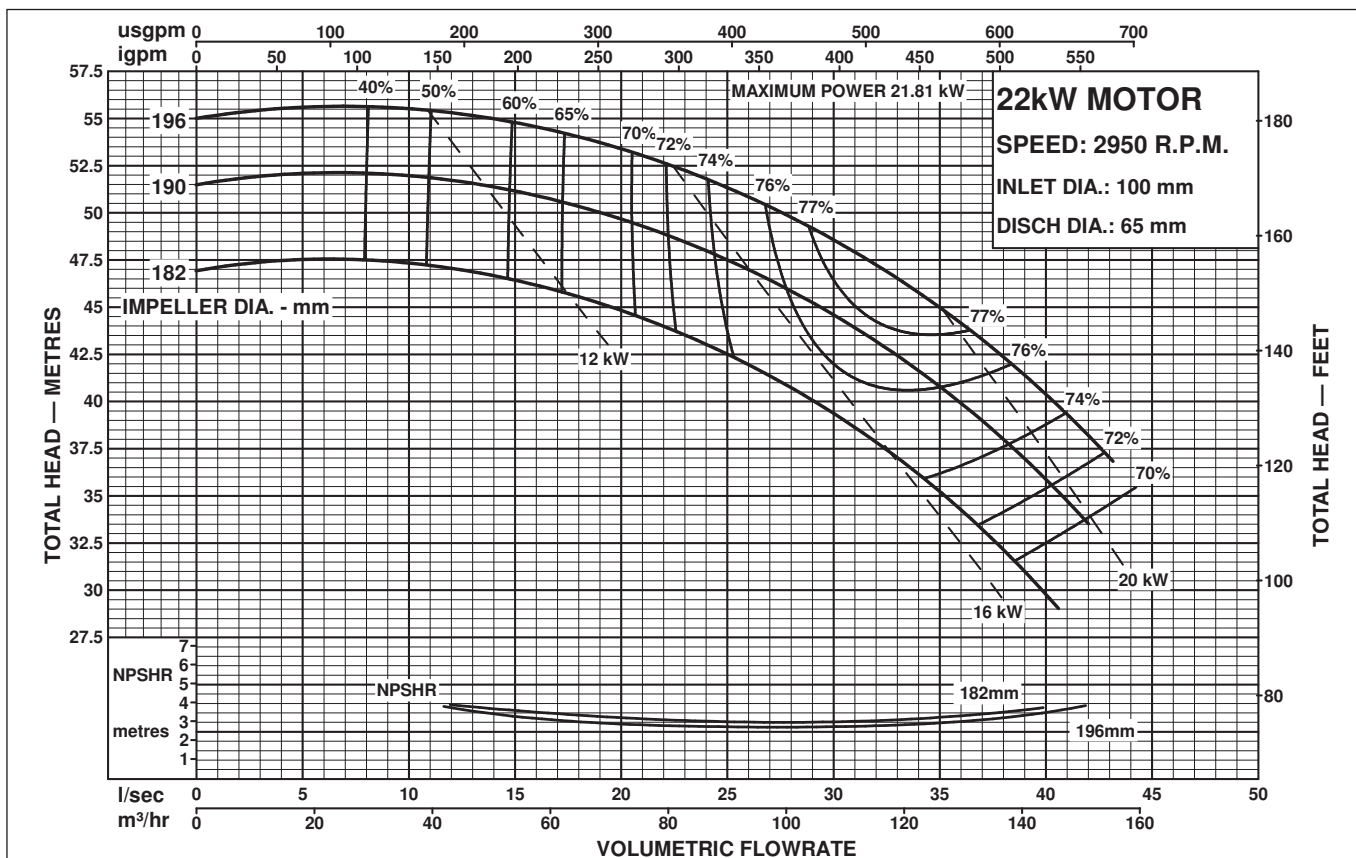
Performance to AS2417 Grade 2 for clean, cold water only.

May 2005

100 x 65-200

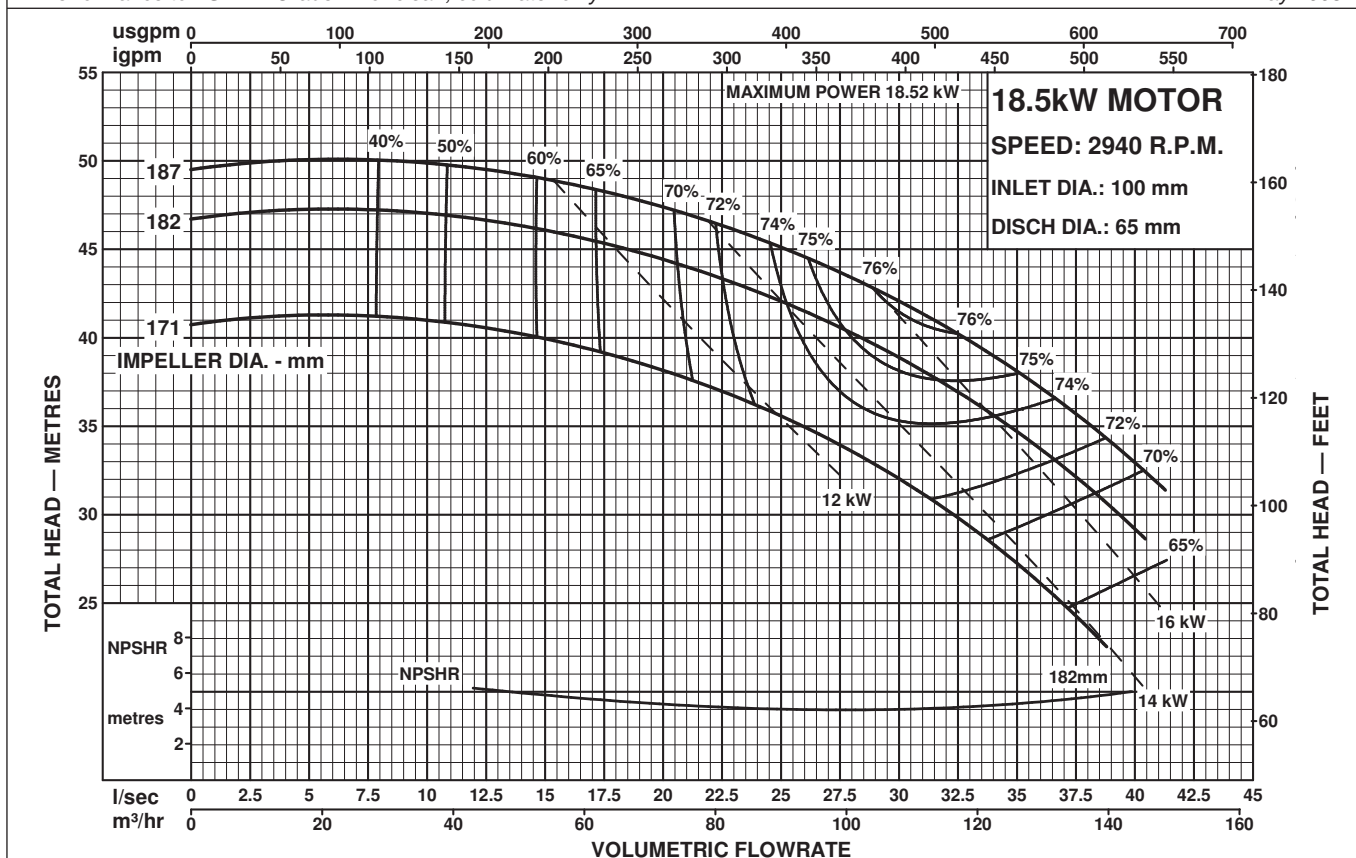


CENTRIFUGAL PUMP PERFORMANCE DATA



Performance to AS2417 Grade 2 for clean, cold water only.

May 2005



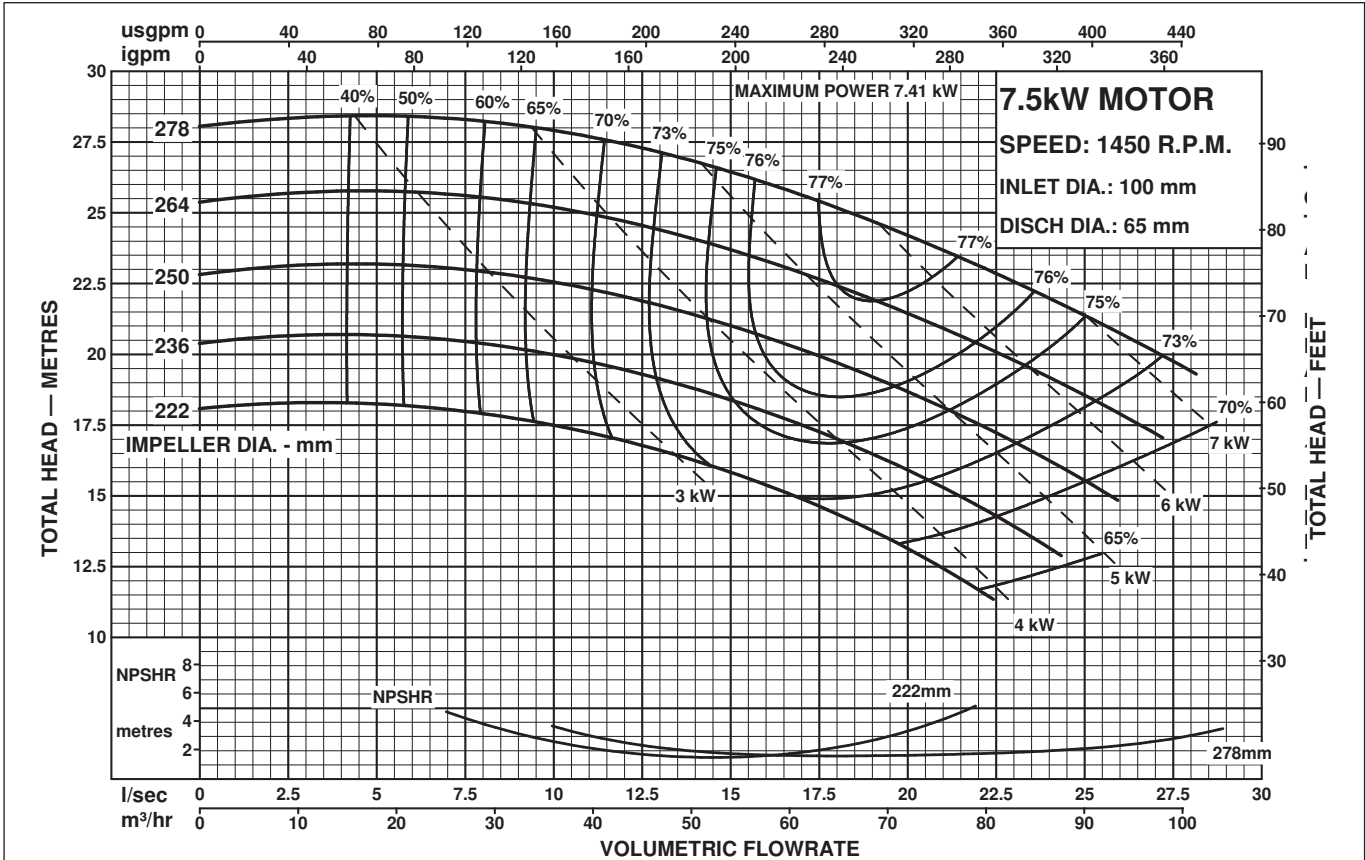
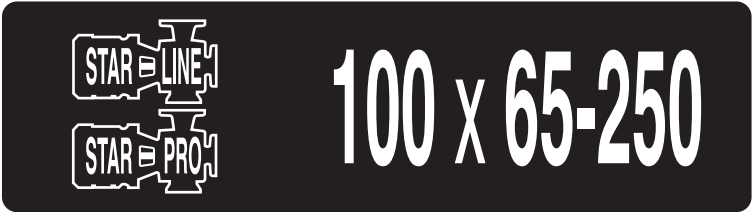
Performance to AS2417 Grade 2 for clean, cold water only.

May 2005

A division of **tyco** Flow Control Pacific Pty Ltd A.B.N. 83 000 922 690

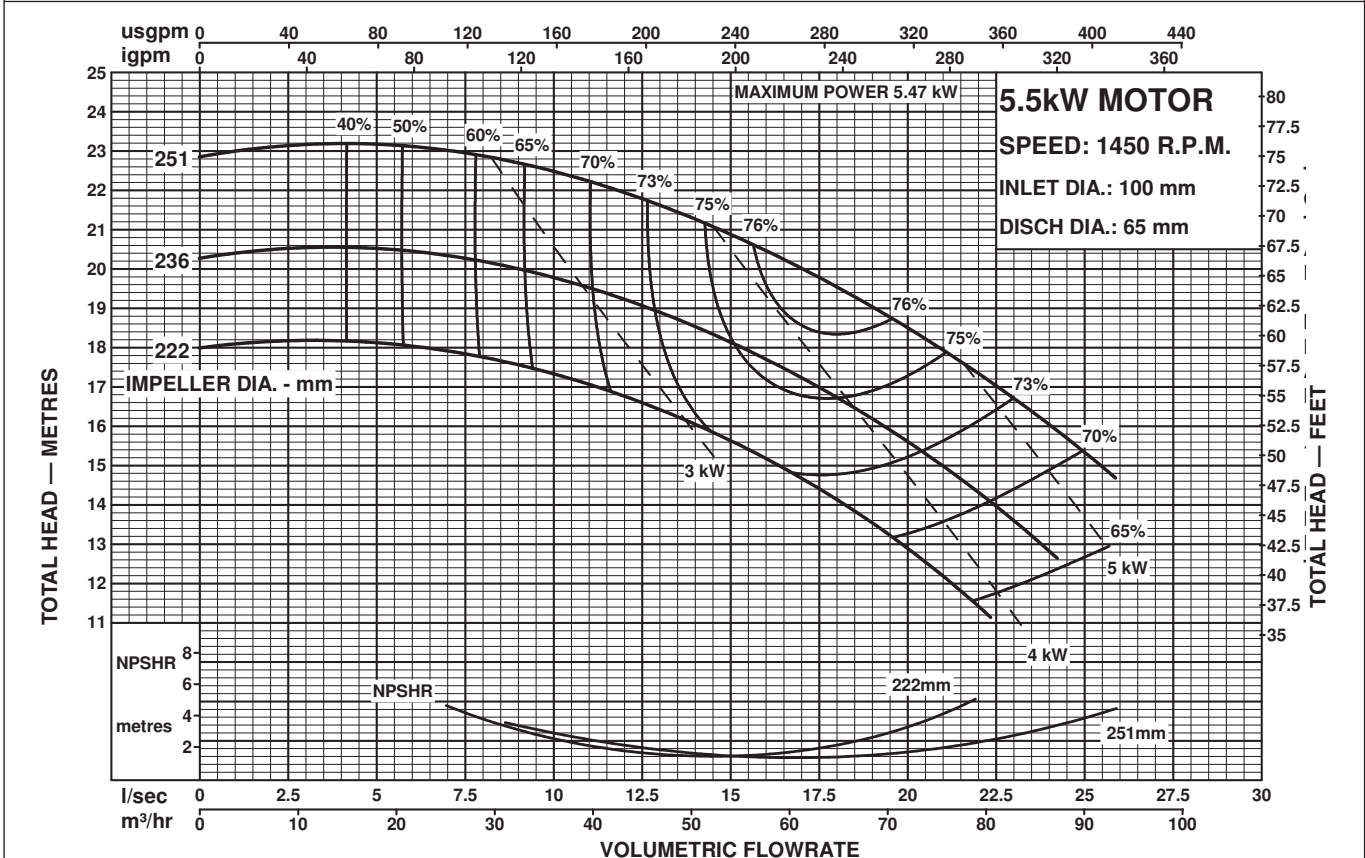


CENTRIFUGAL PUMP PERFORMANCE DATA



Performance to AS2417 Grade 2 for clean, cold water only.

May 2005



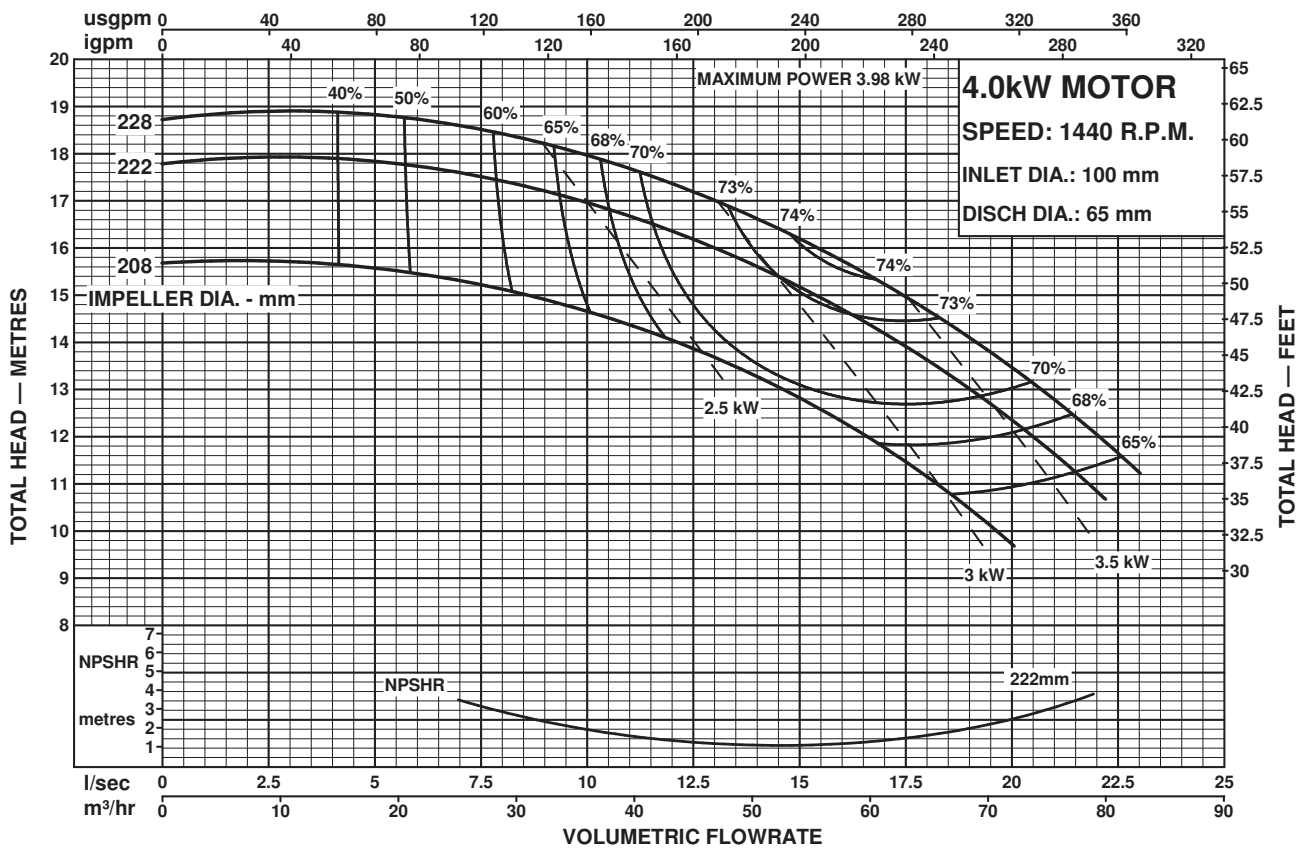
Performance to AS2417 Grade 2 for clean, cold water only.

May 2005

100 x 65-250



CENTRIFUGAL PUMP PERFORMANCE DATA



Performance to AS2417 Grade 2 for clean, cold water only.

May 2005

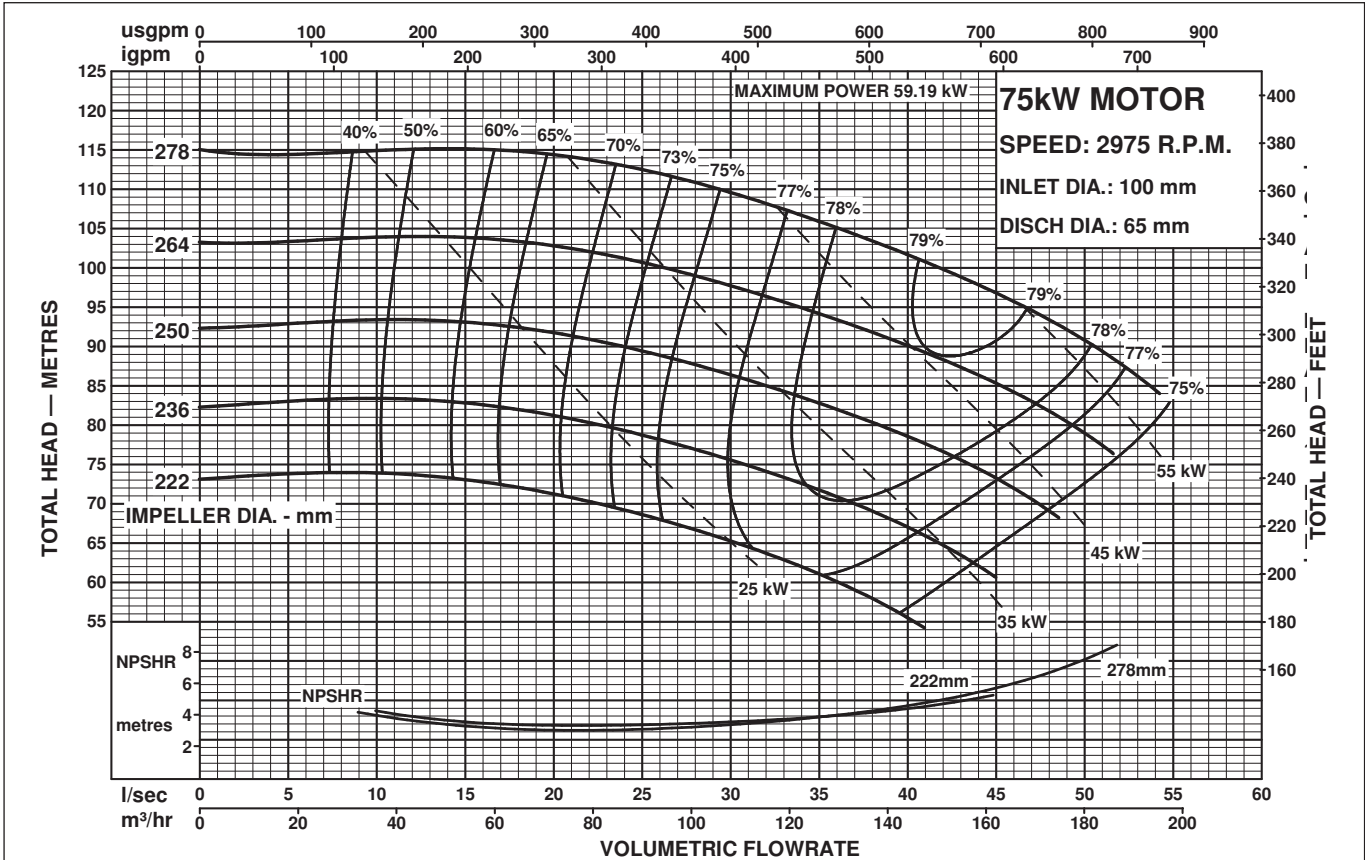
Performance to AS2417 Grade 2 for clean, cold water only.

May 2005

A division of **tyco** Flow Control Pacific Pty Ltd A.B.N. 83 000 922 690

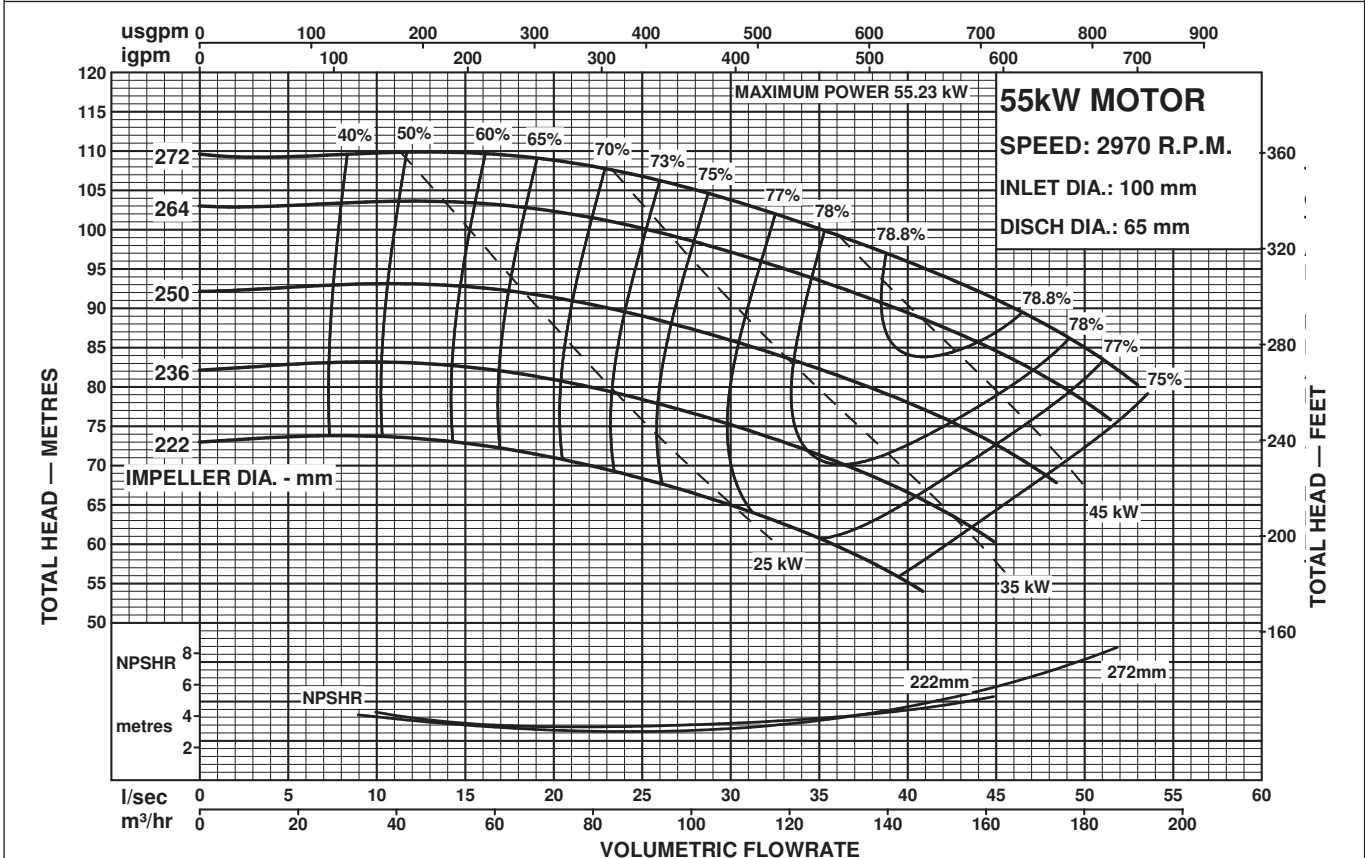


CENTRIFUGAL PUMP PERFORMANCE DATA



Performance to AS2417 Grade 2 for clean, cold water only.

May 2005



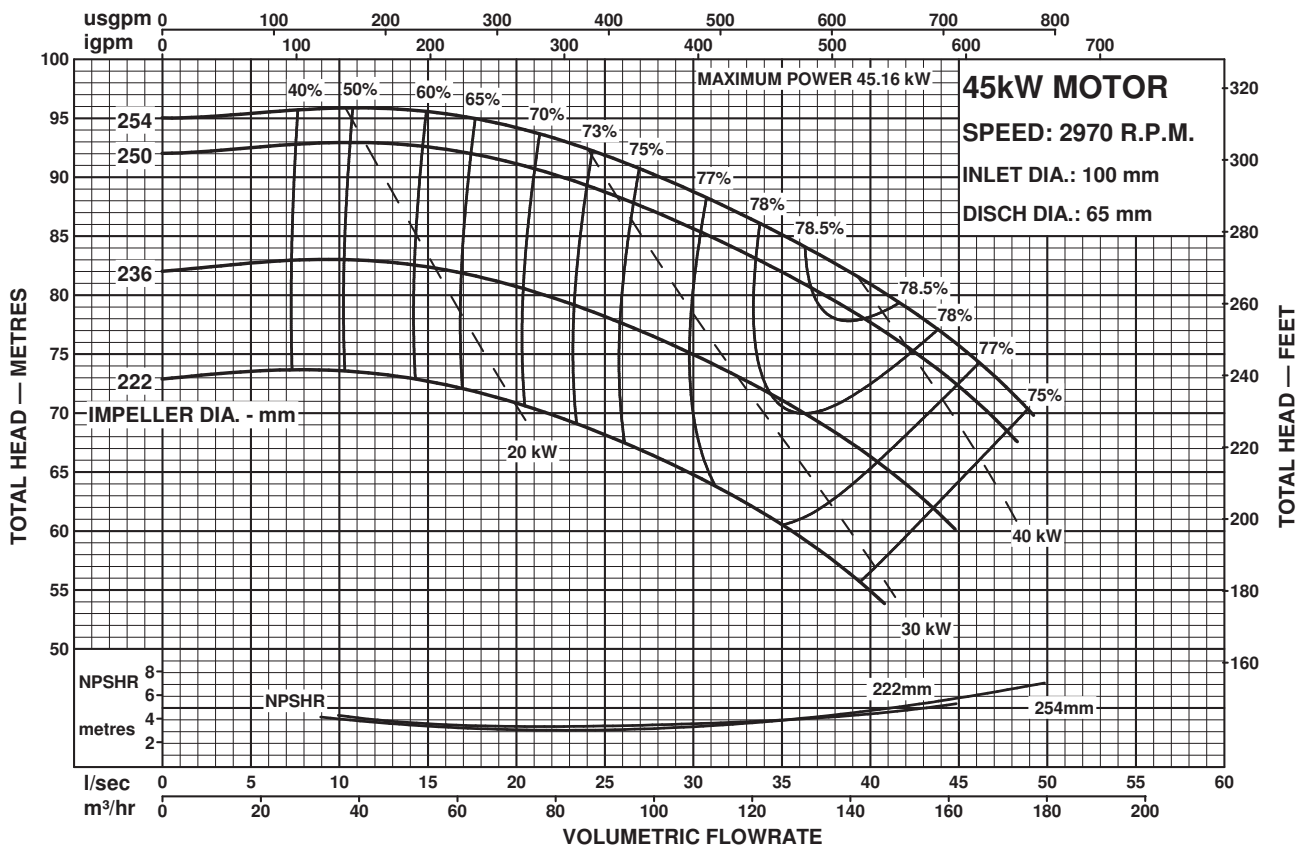
Performance to AS2417 Grade 2 for clean, cold water only.

May 2005

100 x 65-250

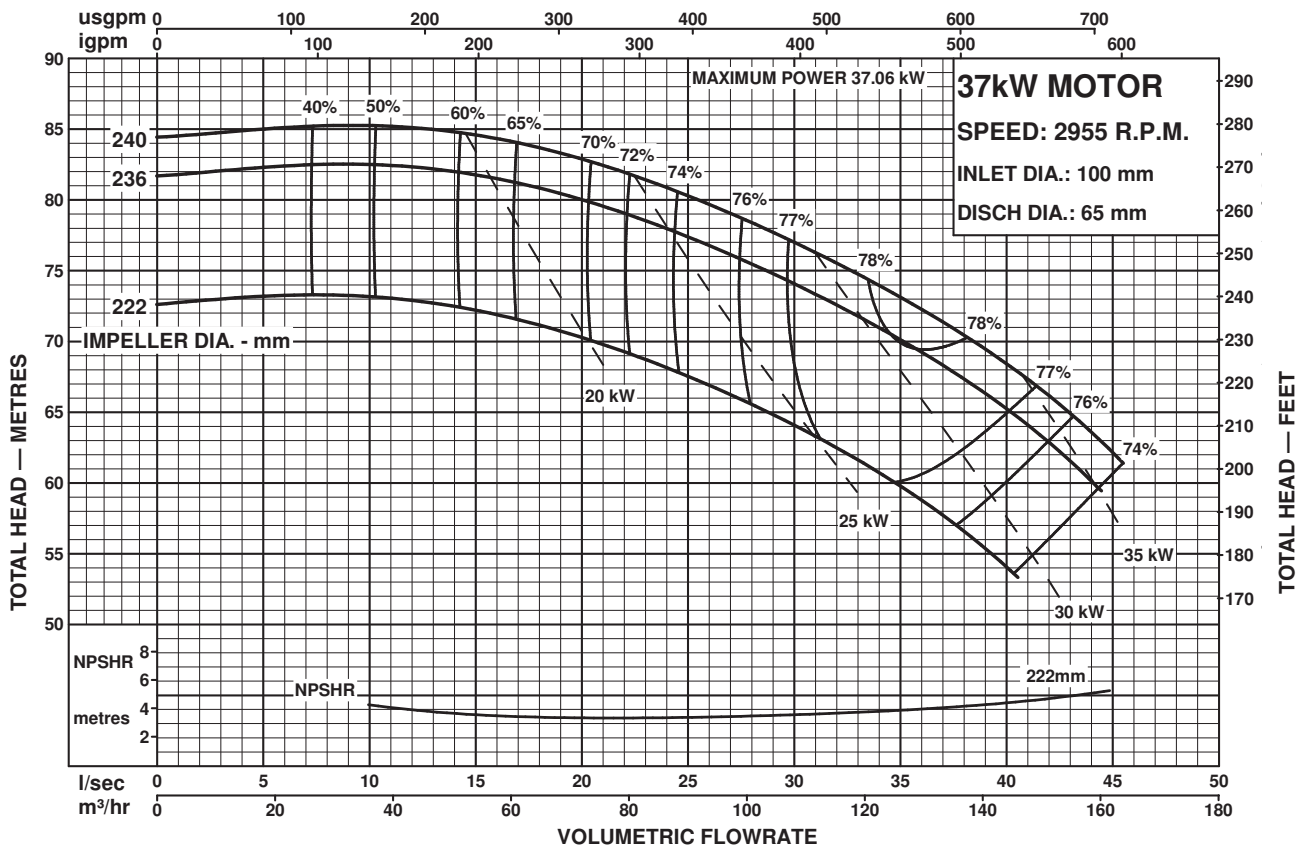


CENTRIFUGAL PUMP PERFORMANCE DATA



Performance to AS2417 Grade 2 for clean, cold water only.

May 2005



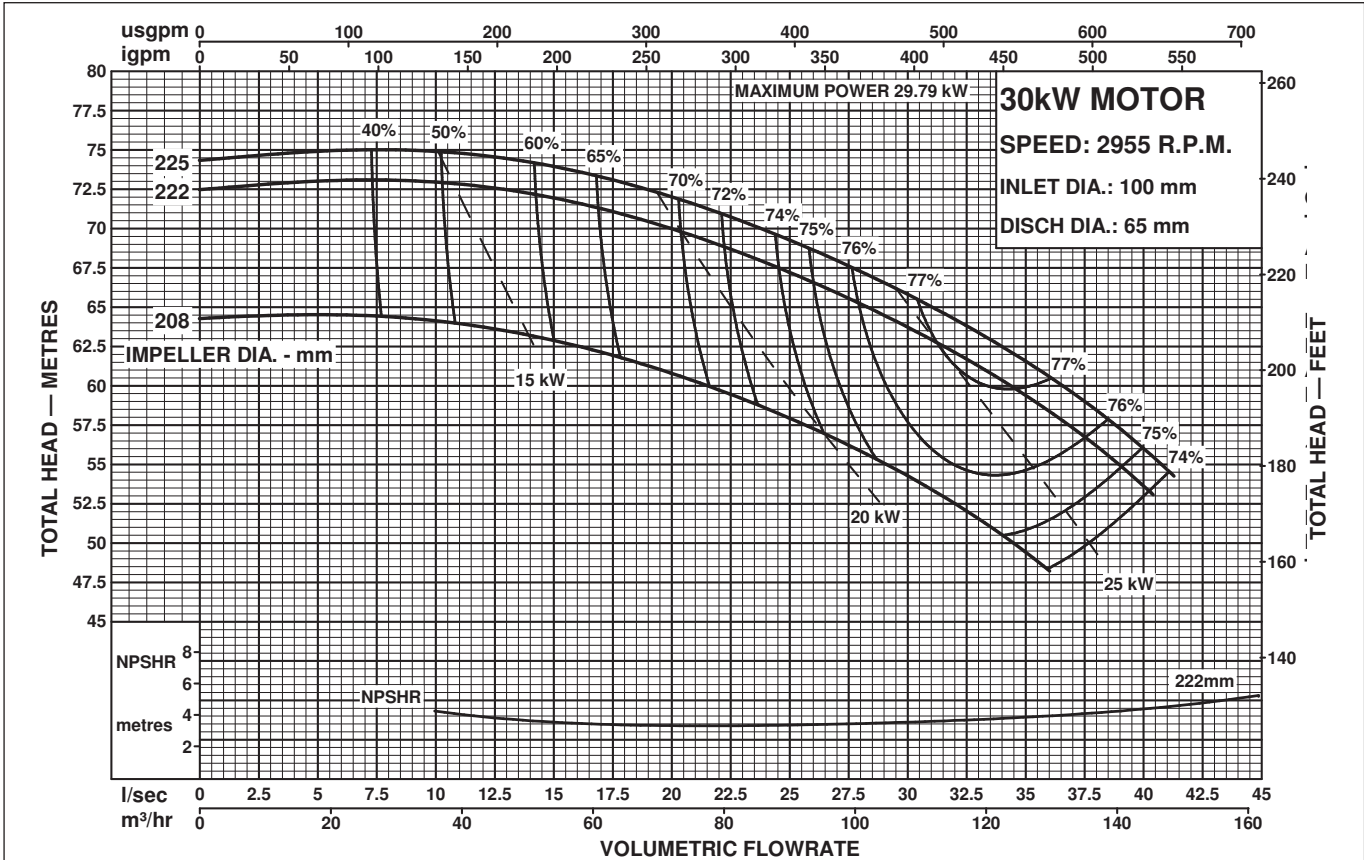
Performance to AS2417 Grade 2 for clean, cold water only.

May 2005



CENTRIFUGAL PUMP PERFORMANCE DATA

100 x 65-250



Performance to AS2417 Grade 2 for clean, cold water only.

May 2005

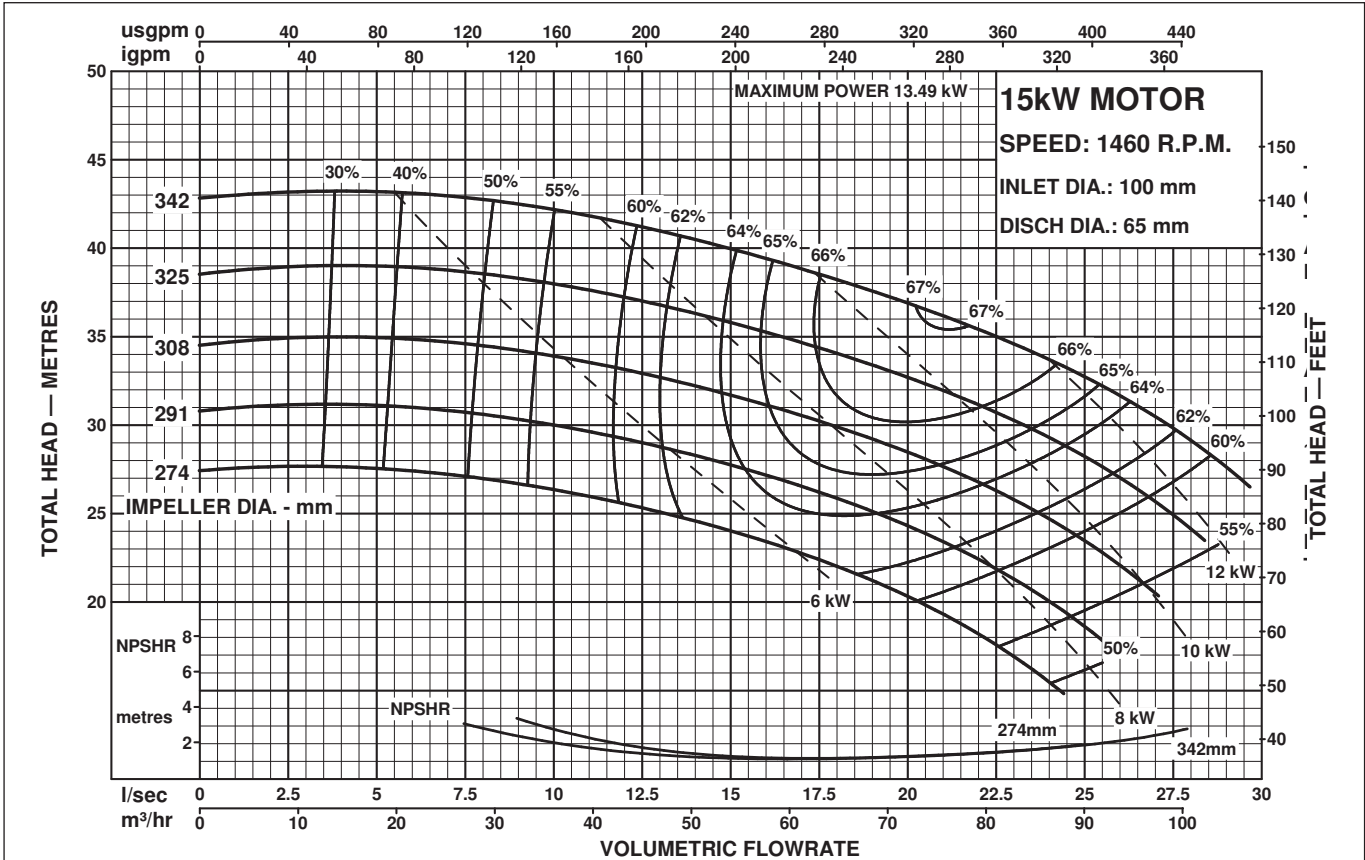
Performance to AS2417 Grade 2 for clean, cold water only.

May 2005



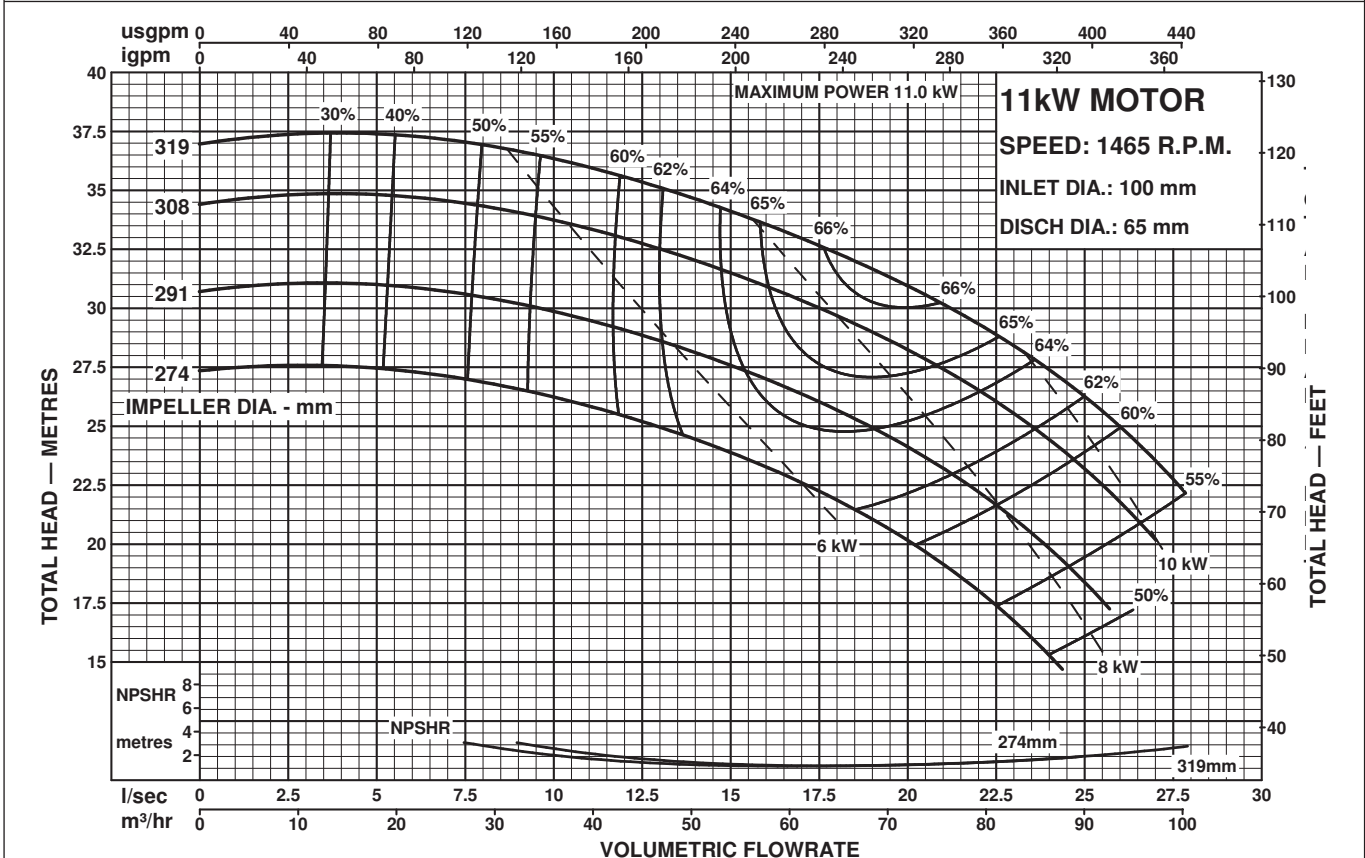
CENTRIFUGAL PUMP PERFORMANCE DATA

100 x 65-315



Performance to AS2417 Grade 2 for clean, cold water only.

May 2005



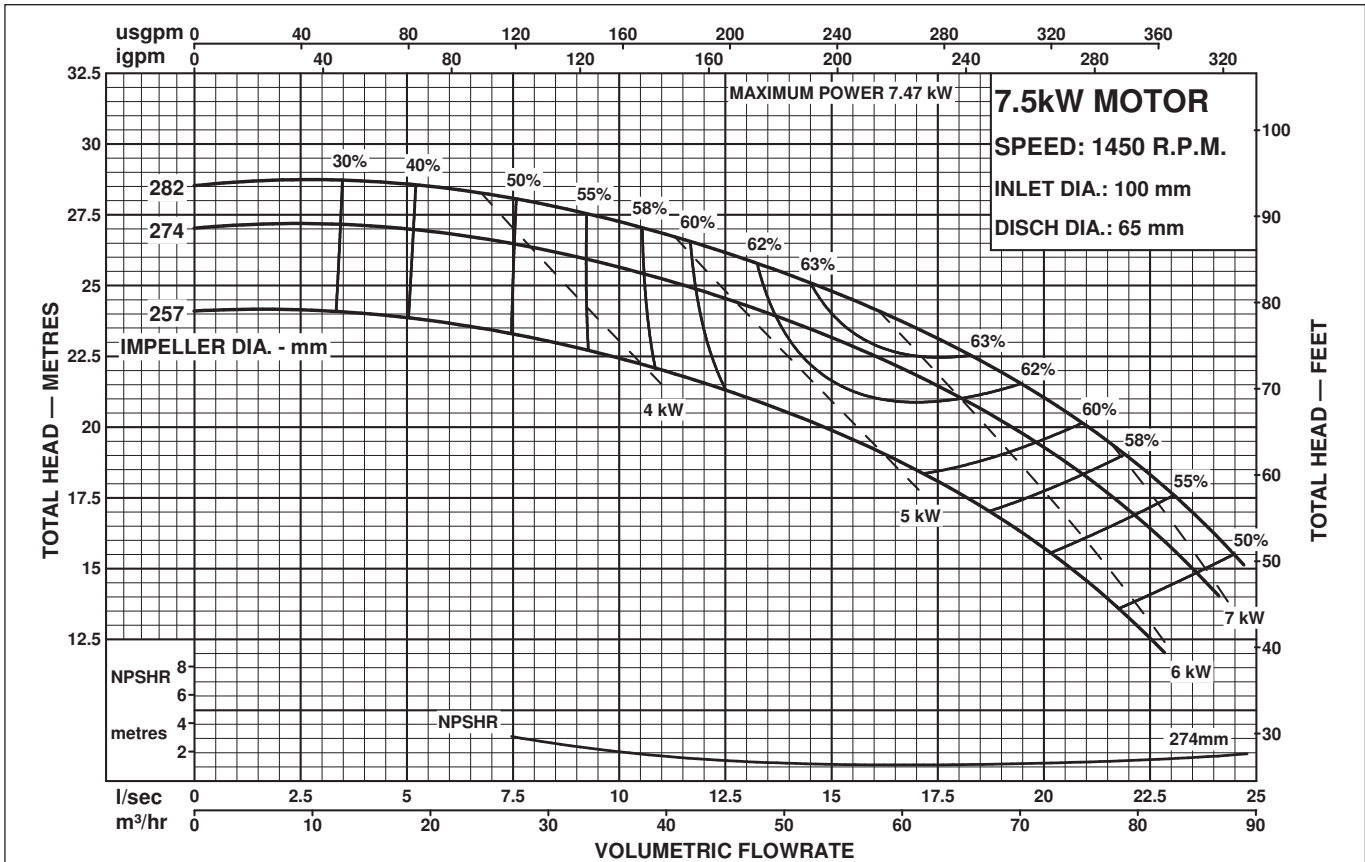
Performance to AS2417 Grade 2 for clean, cold water only.

May 2005

100 x 65-315



CENTRIFUGAL PUMP PERFORMANCE DATA



Performance to AS2417 Grade 2 for clean, cold water only.

May 2005



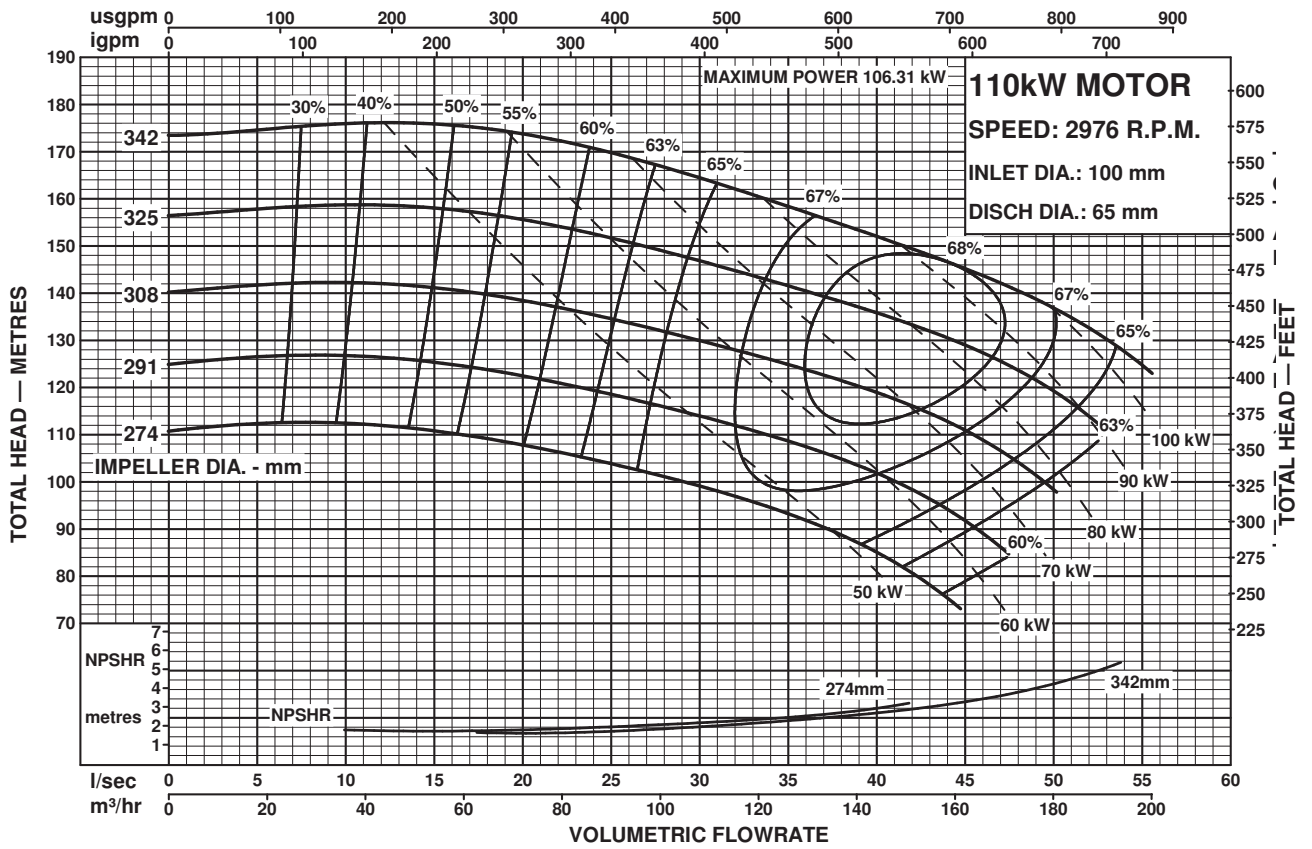
Performance to AS2417 Grade 2 for clean, cold water only.

May 2005



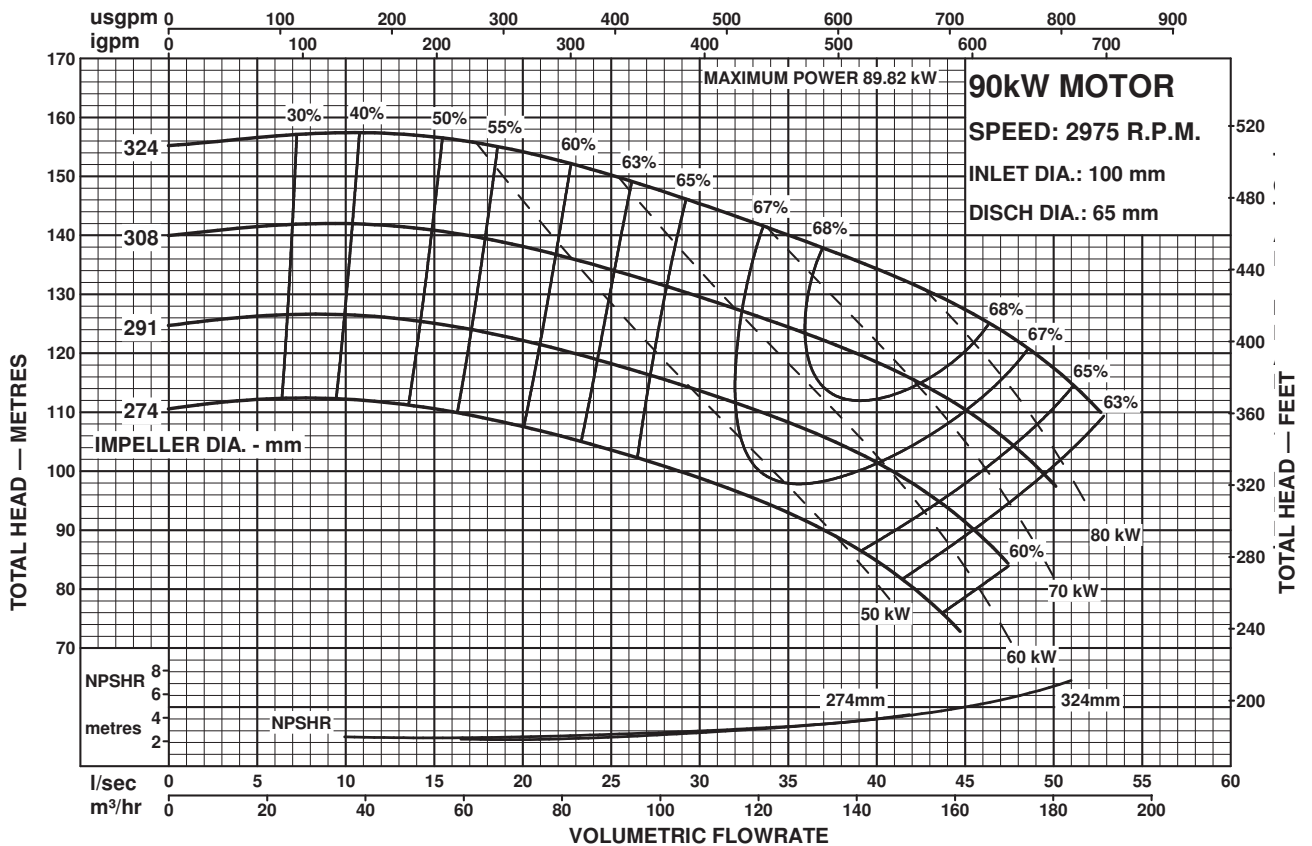
CENTRIFUGAL PUMP PERFORMANCE DATA

100 x 65-315



Performance to AS2417 Grade 2 for clean, cold water only.

May 2005



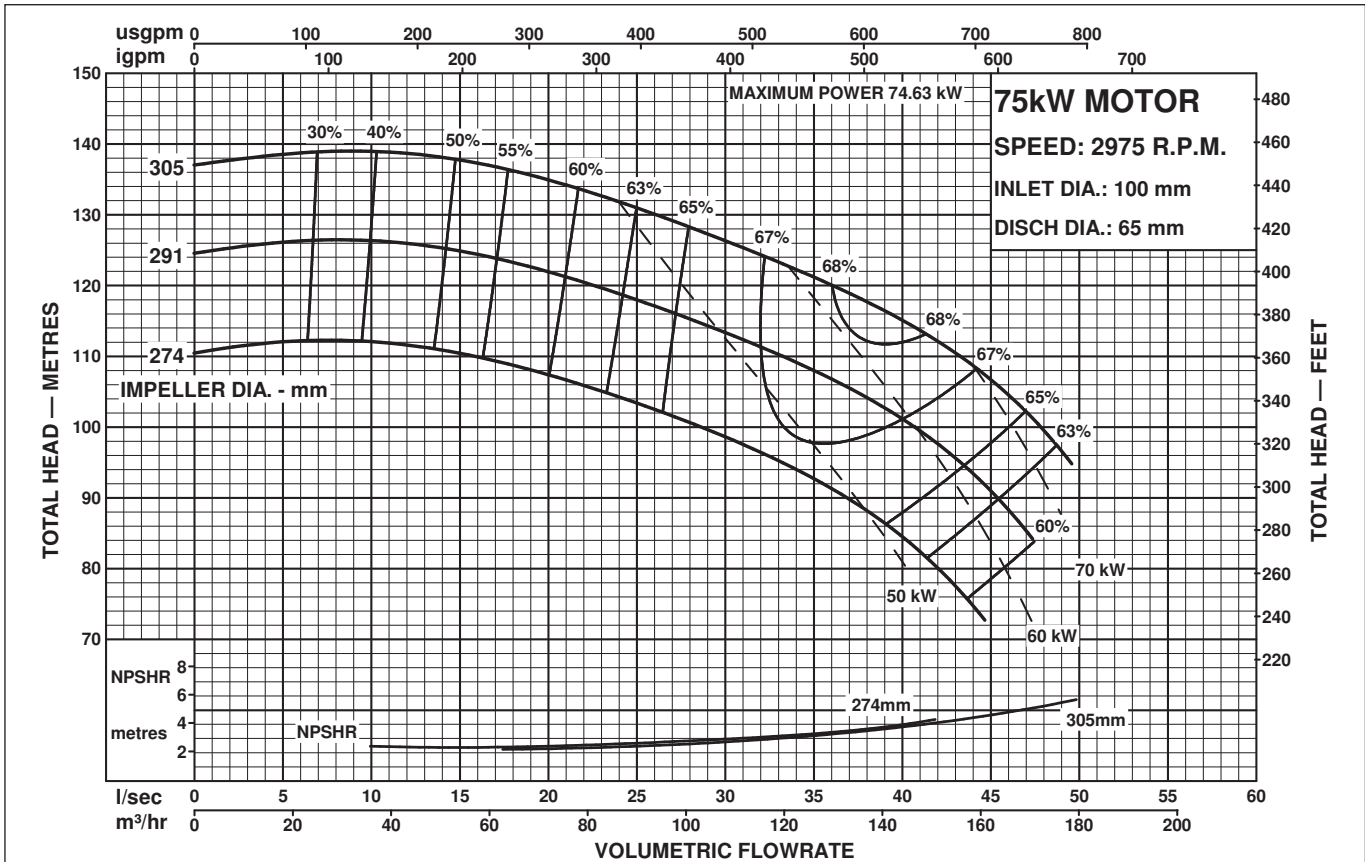
Performance to AS2417 Grade 2 for clean, cold water only.

May 2005

100 x 65-315

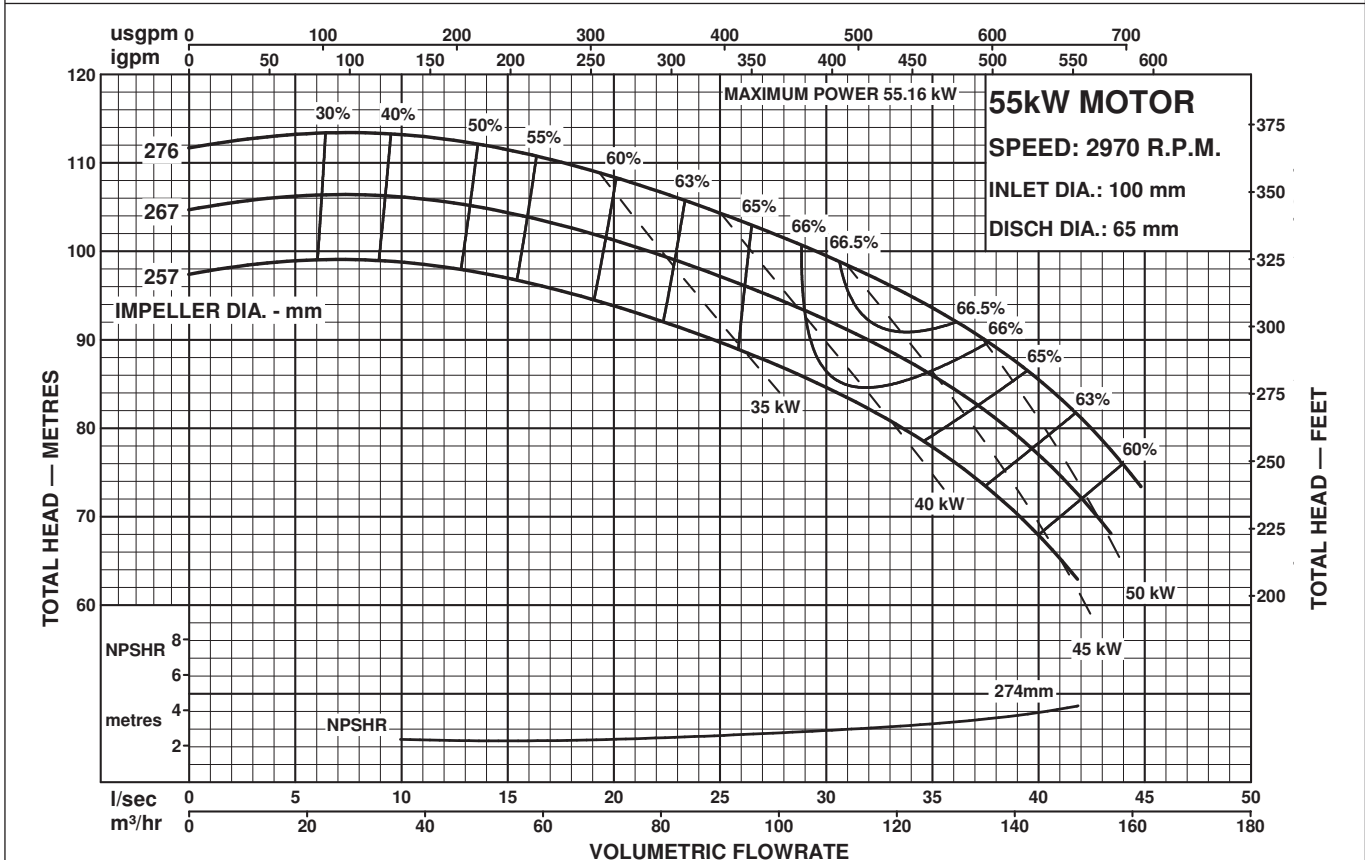


CENTRIFUGAL PUMP PERFORMANCE DATA



Performance to AS2417 Grade 2 for clean, cold water only.

May 2005

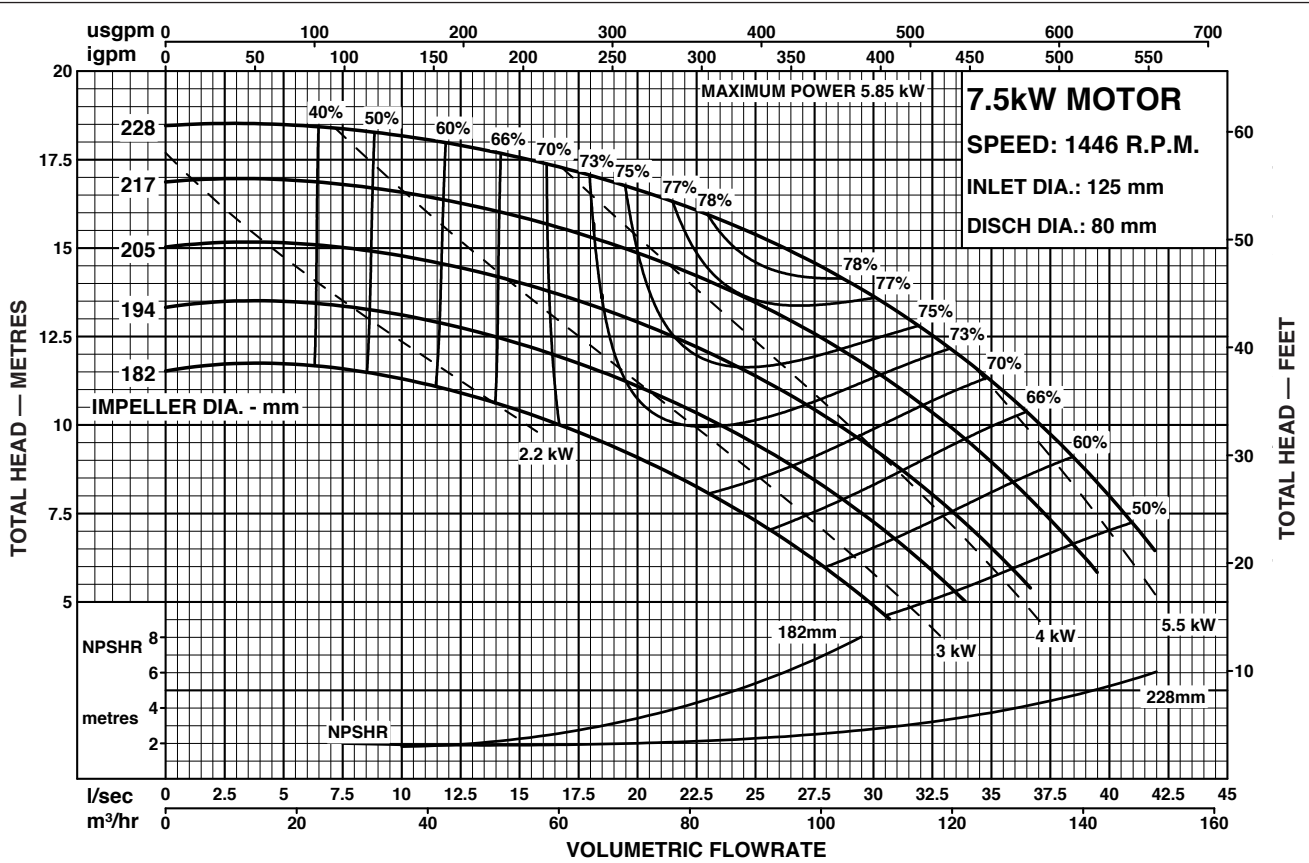


Performance to AS2417 Grade 2 for clean, cold water only.

May 2005

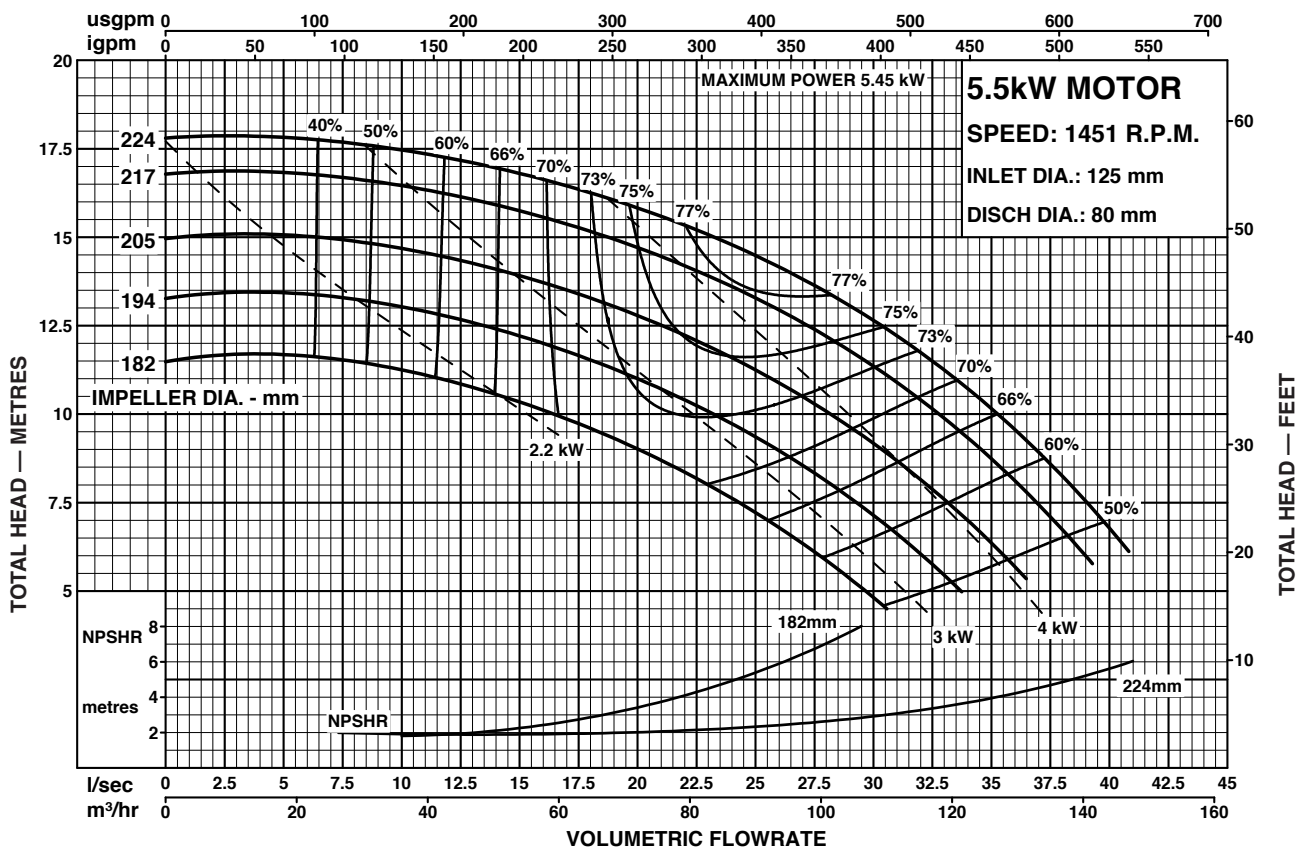


CENTRIFUGAL PUMP PERFORMANCE DATA



Performance to AS2417 Grade 2 for clean, cold water only.

May 2005



Performance to AS2417 Grade 2 for clean, cold water only.

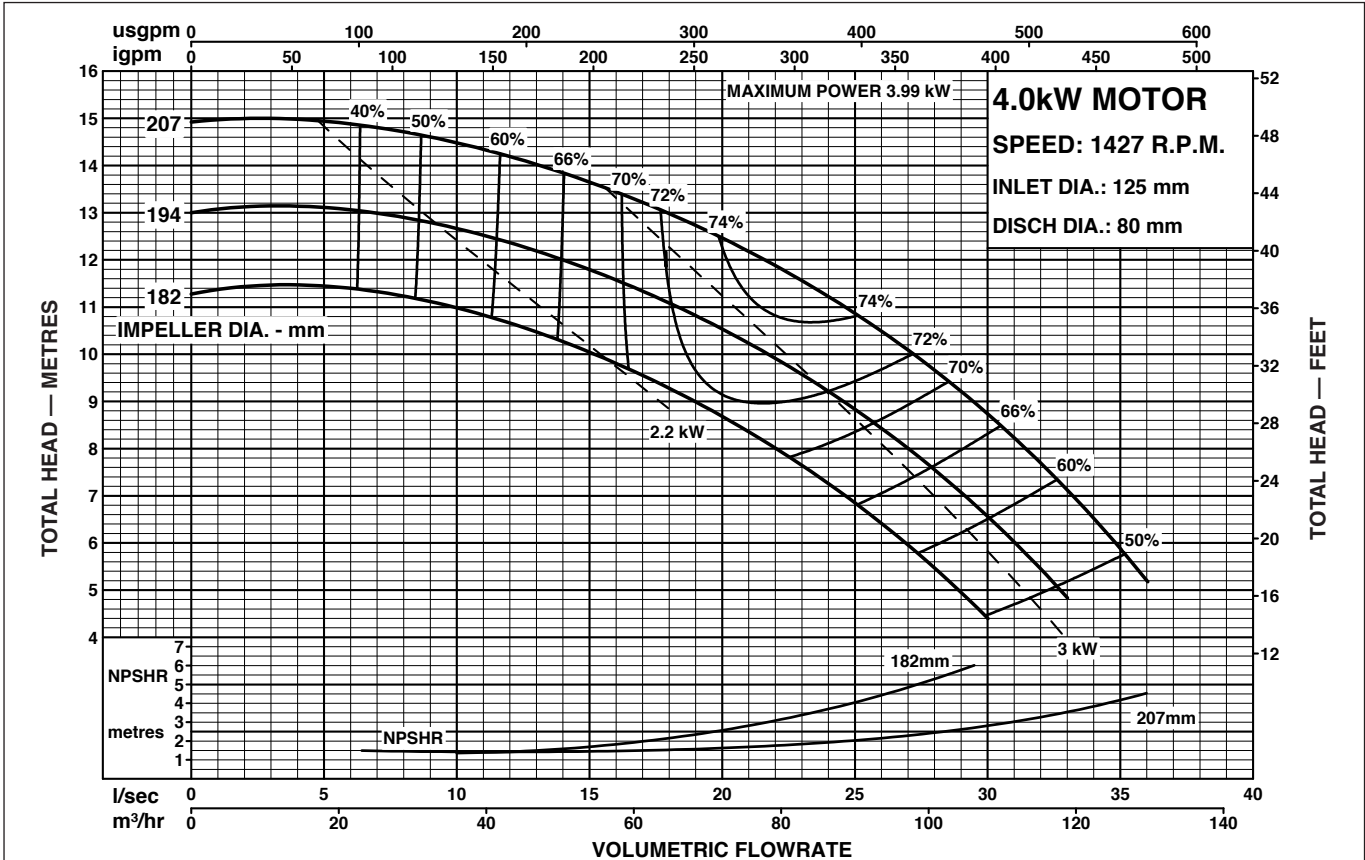
May 2005

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125 x 80-200

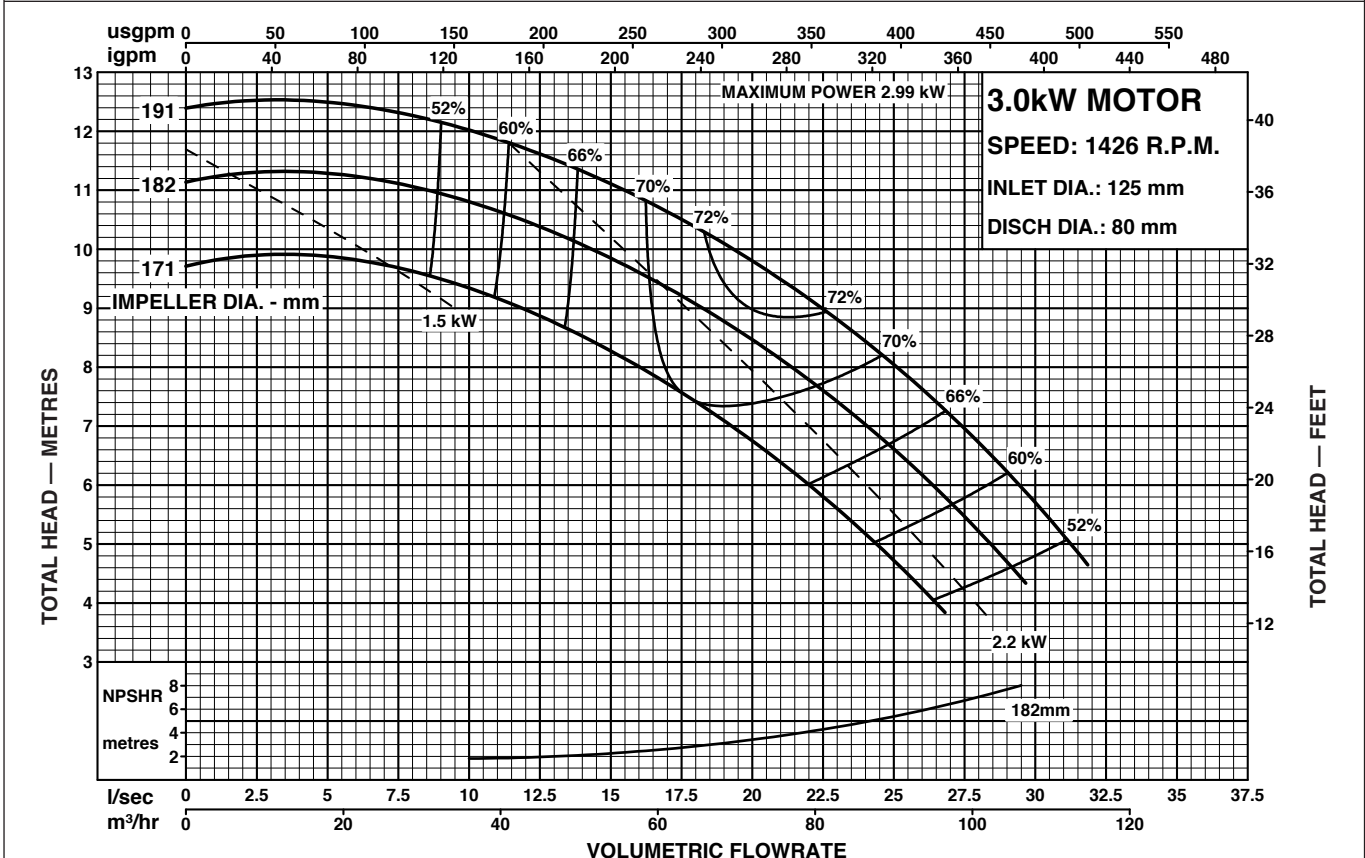


CENTRIFUGAL PUMP PERFORMANCE DATA



Performance to AS2417 Grade 2 for clean, cold water only.

May 2005

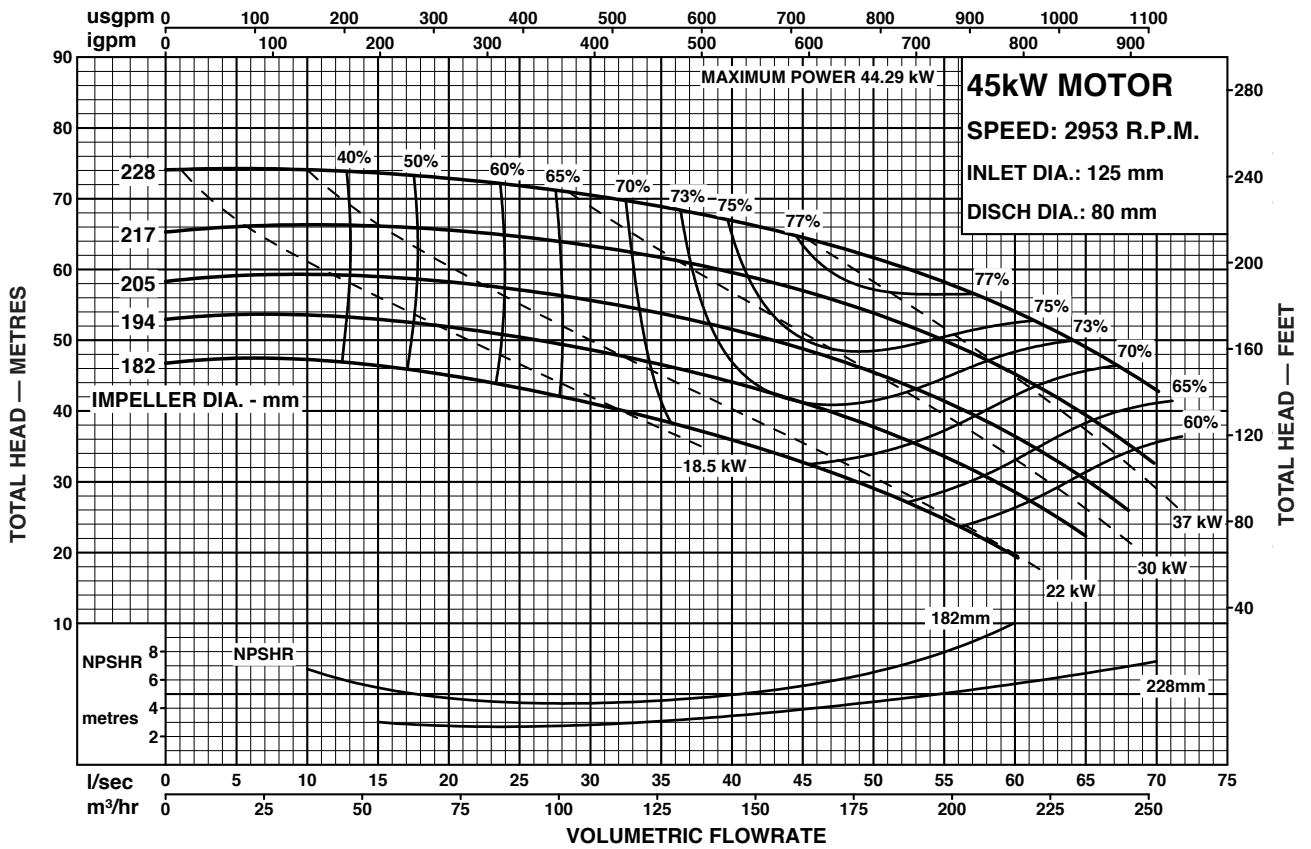


Performance to AS2417 Grade 2 for clean, cold water only.

May 2005

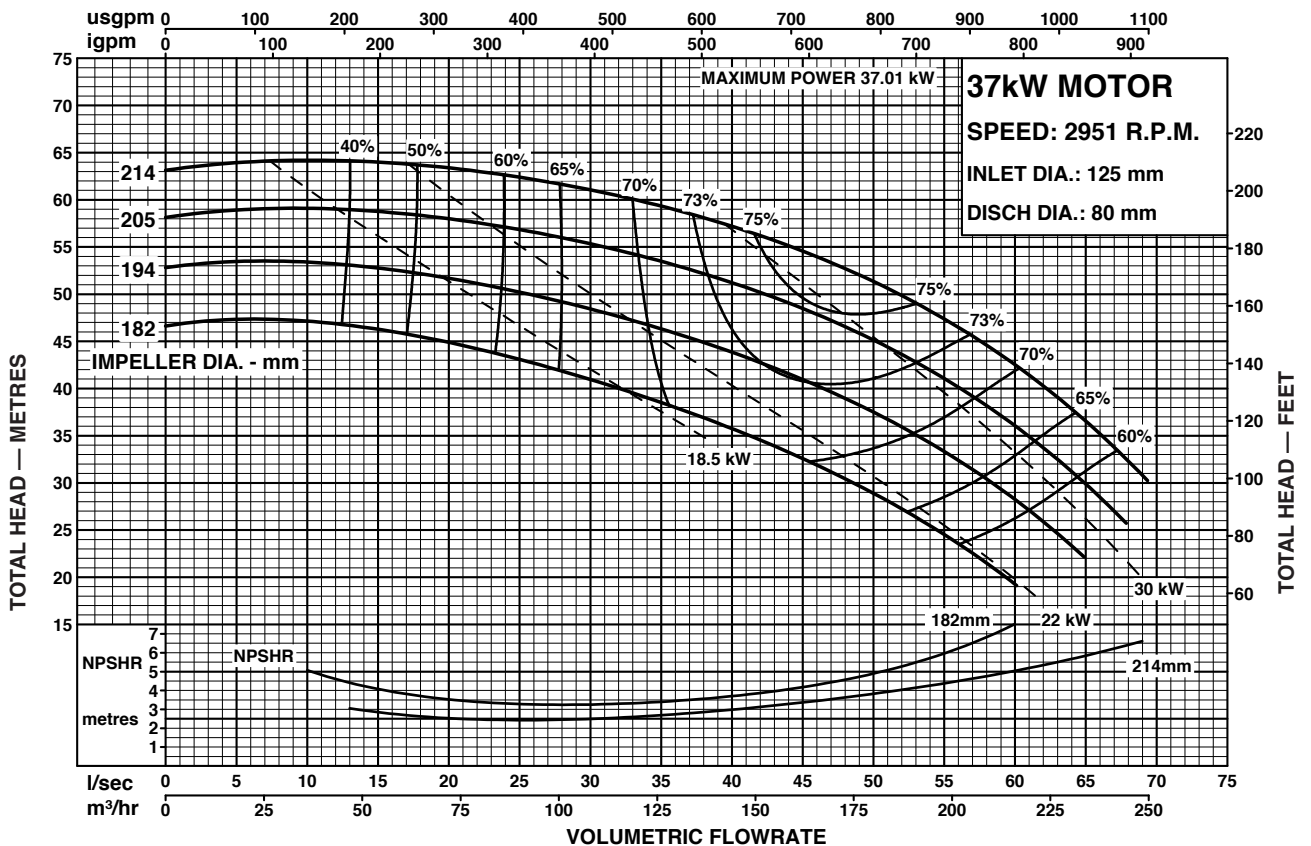


CENTRIFUGAL PUMP PERFORMANCE DATA



Performance to AS2417 Grade 2 for clean, cold water only.

May 2005



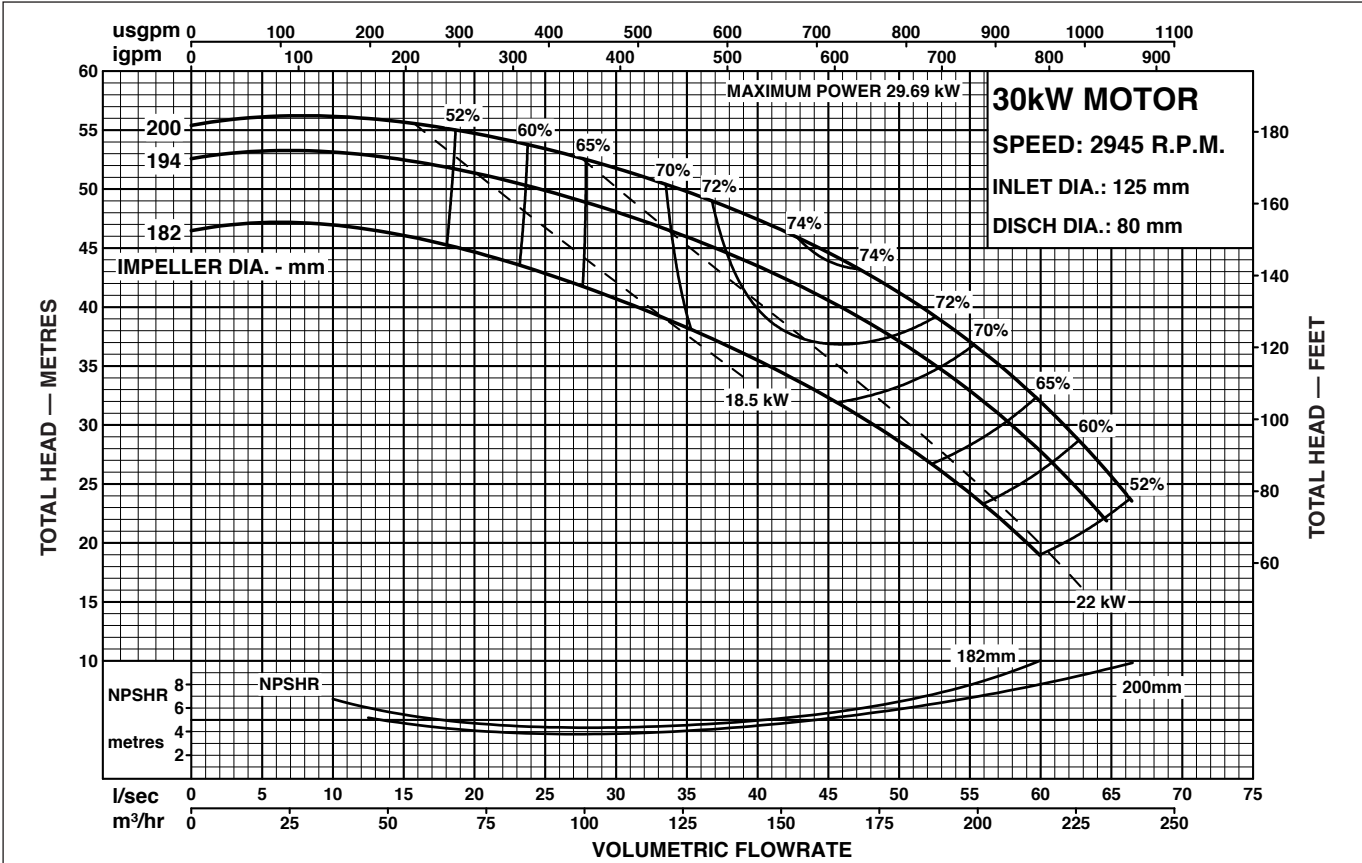
Performance to AS2417 Grade 2 for clean, cold water only.

May 2005

125 x 80-200

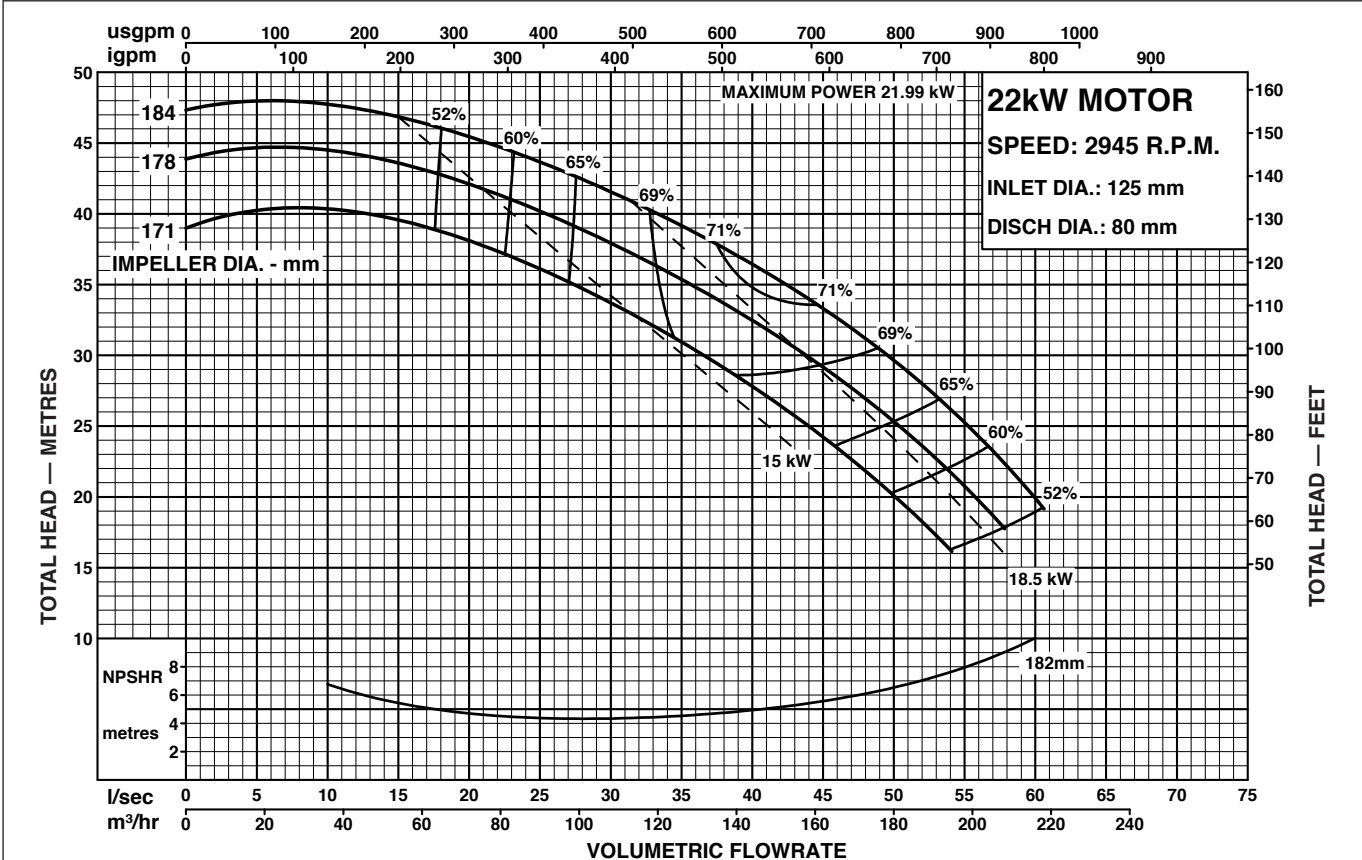


CENTRIFUGAL PUMP PERFORMANCE DATA



Performance to AS2417 Grade 2 for clean, cold water only.

May 2005

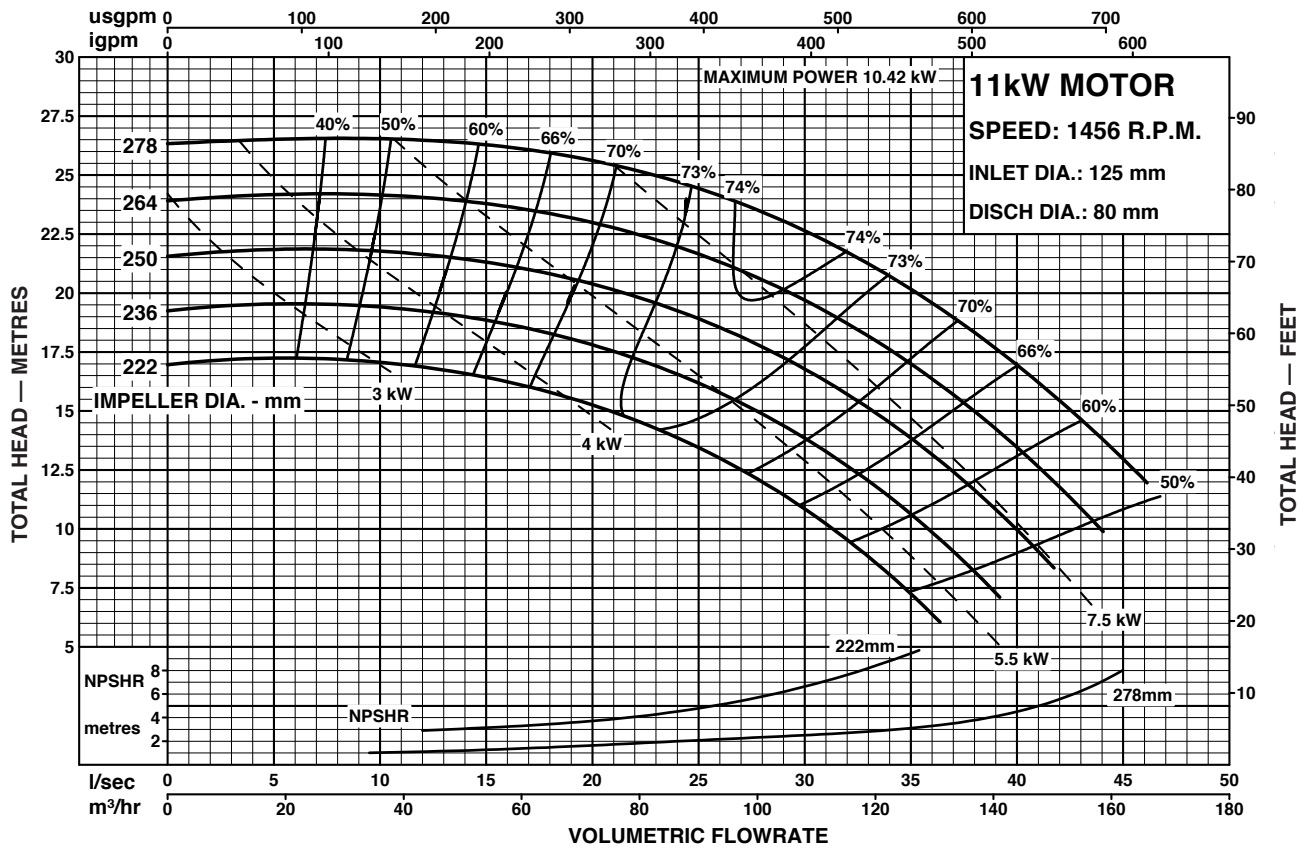
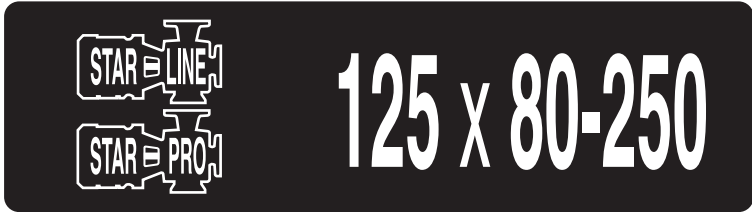


Performance to AS2417 Grade 2 for clean, cold water only.

May 2005

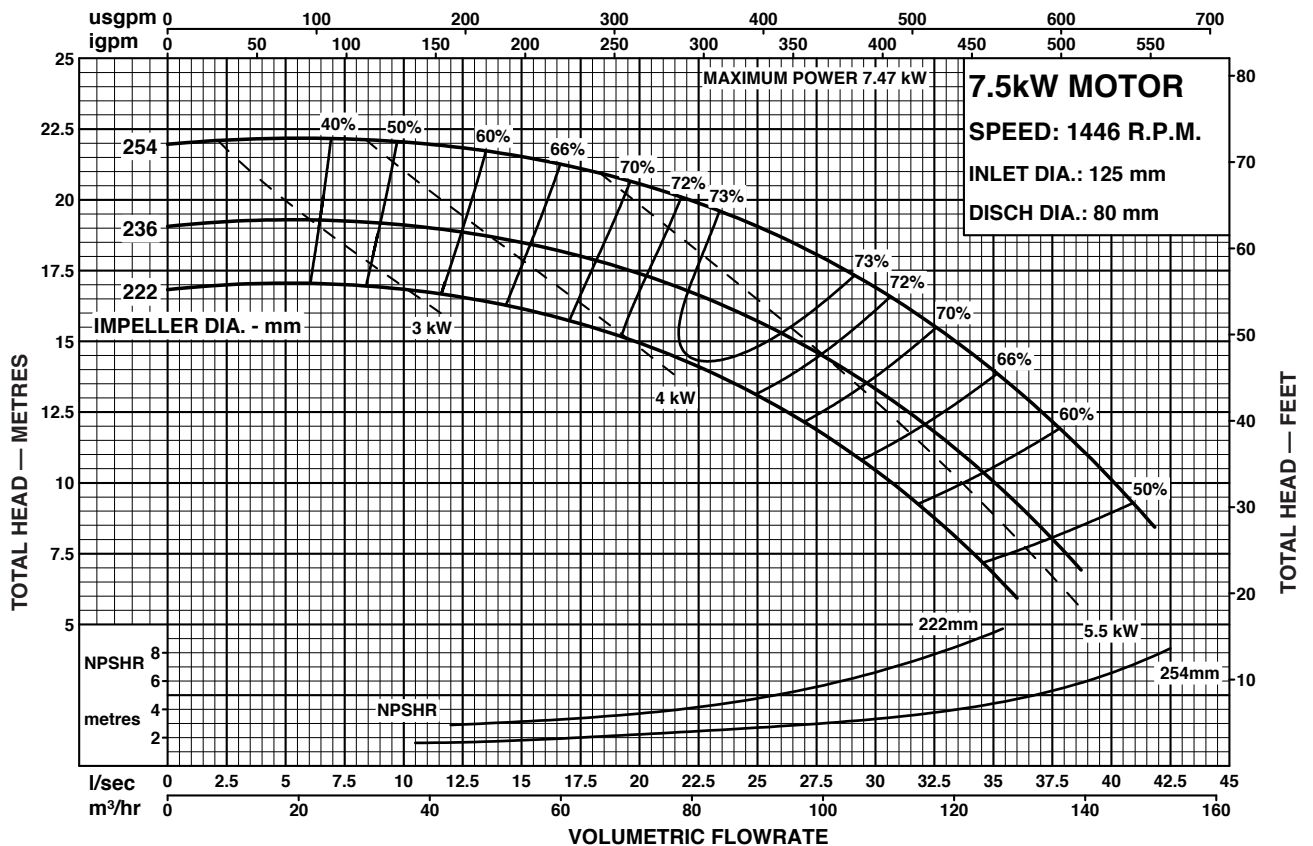


CENTRIFUGAL PUMP PERFORMANCE DATA



Performance to AS2417 Grade 2 for clean, cold water only.

May 2005



Performance to AS2417 Grade 2 for clean, cold water only.

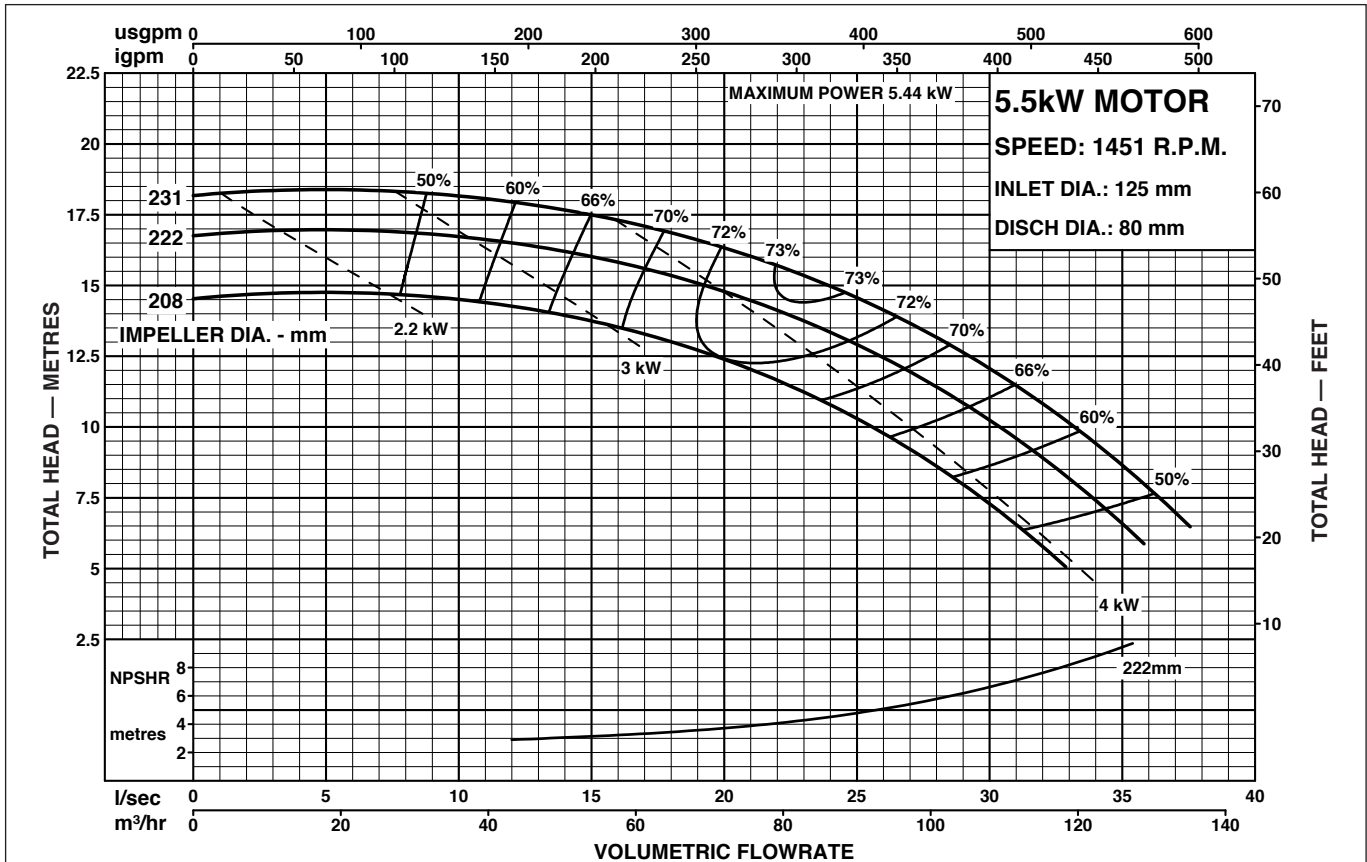
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125 x 80-250



CENTRIFUGAL PUMP PERFORMANCE DATA



Performance to AS2417 Grade 2 for clean, cold water only.

May 2005

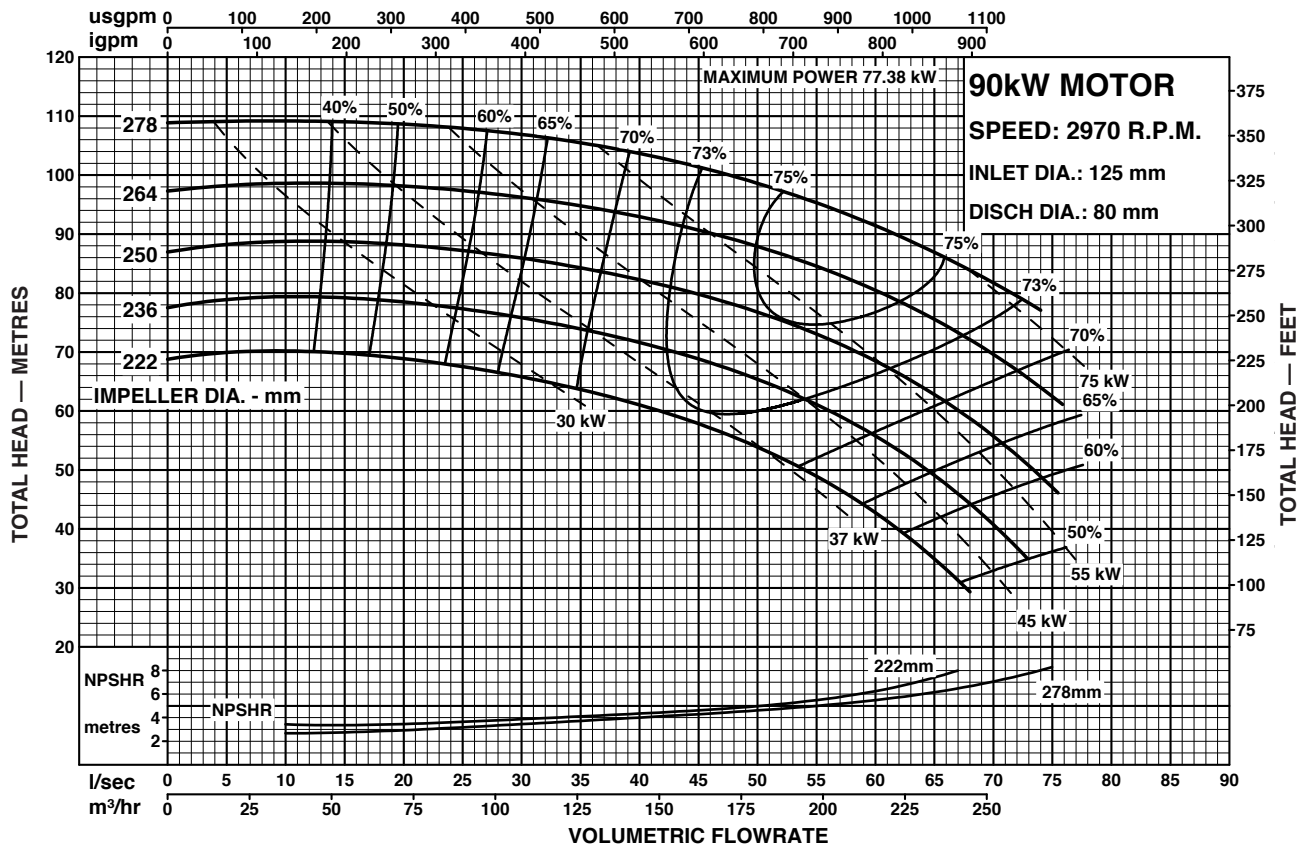
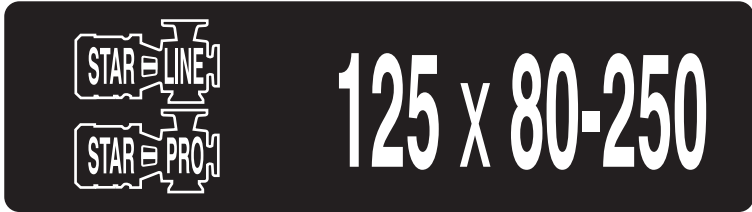


Performance to AS2417 Grade 2 for clean, cold water only.

May 2005

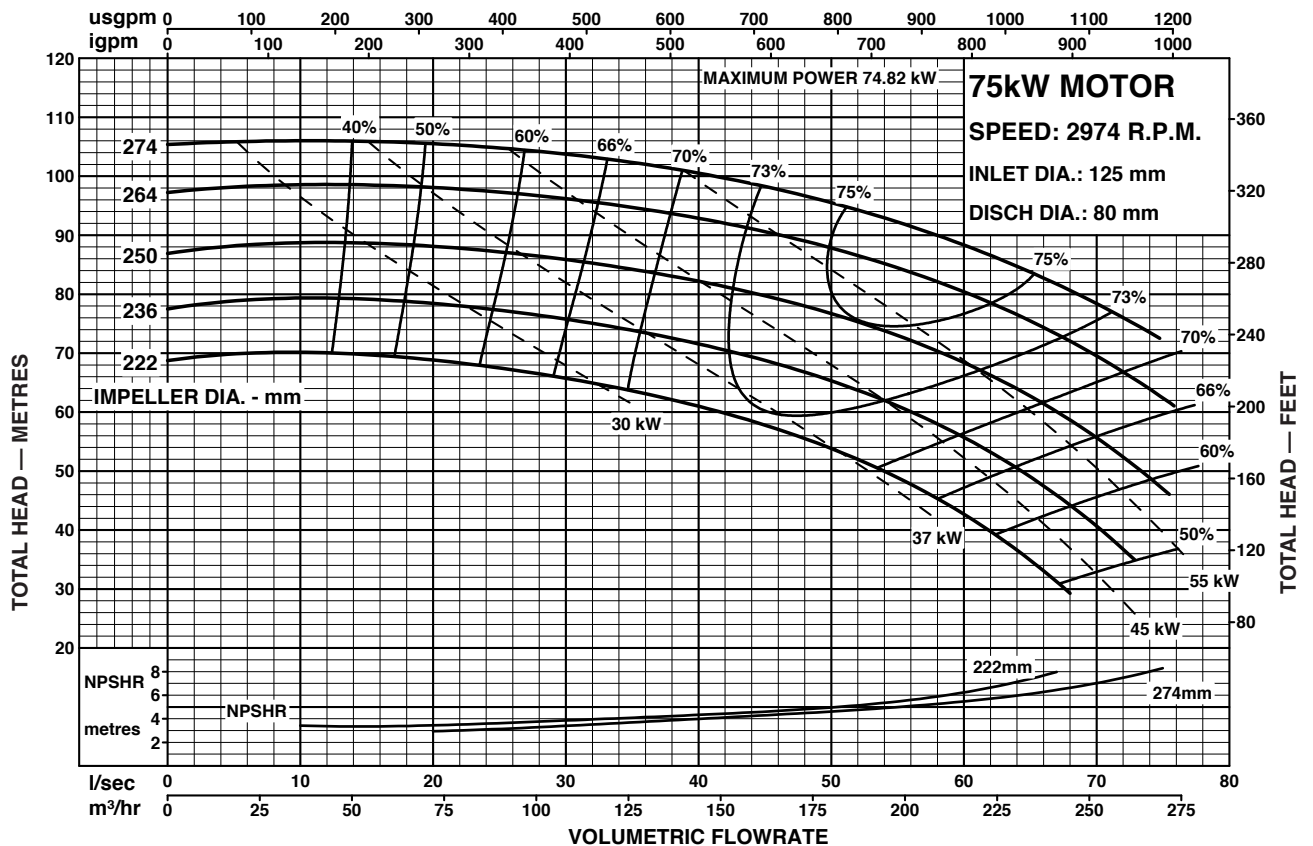


CENTRIFUGAL PUMP PERFORMANCE DATA



Performance to AS2417 Grade 2 for clean, cold water only.

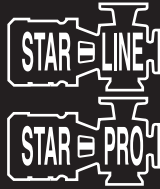
May 2005



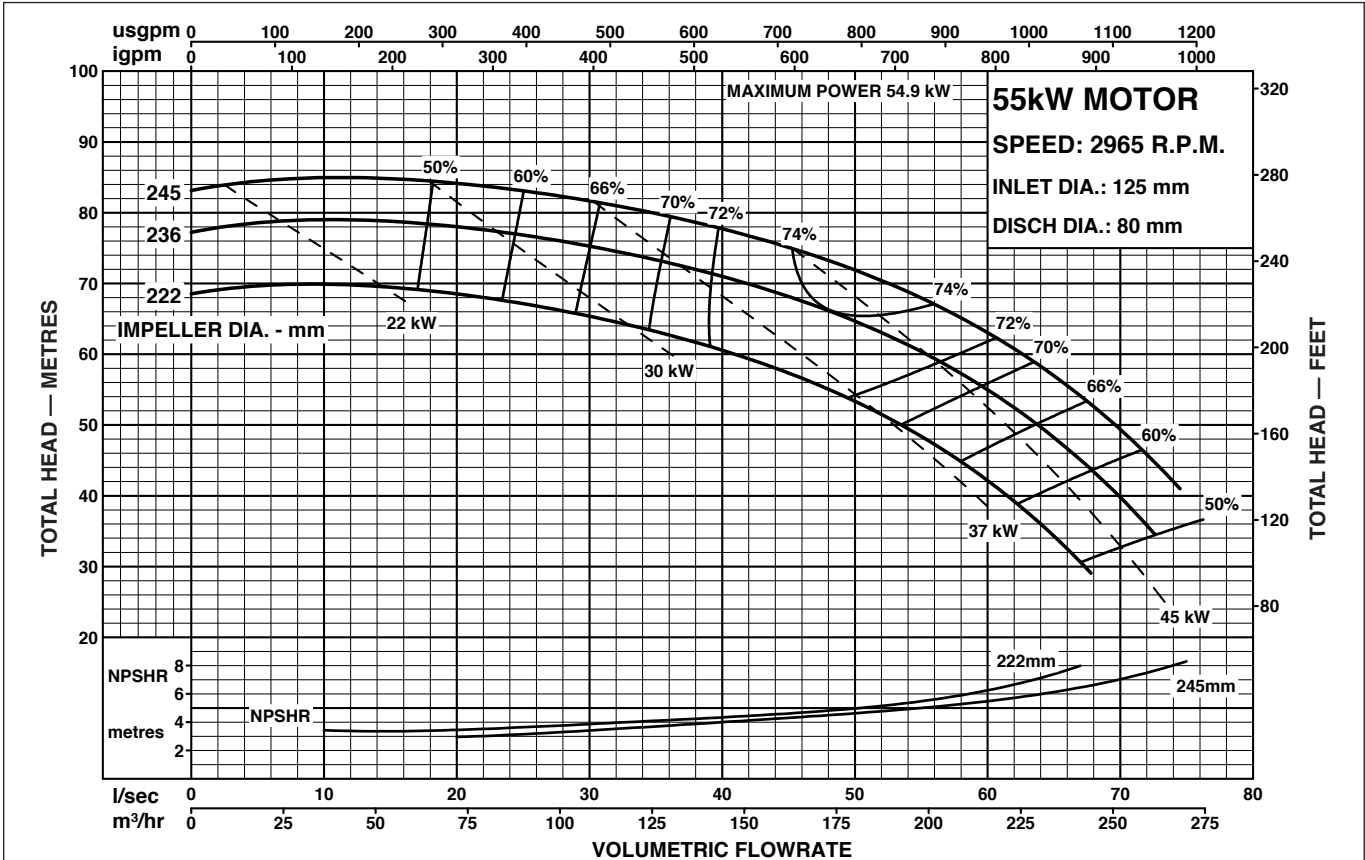
Performance to AS2417 Grade 2 for clean, cold water only.

May 2005

125 x 80-250

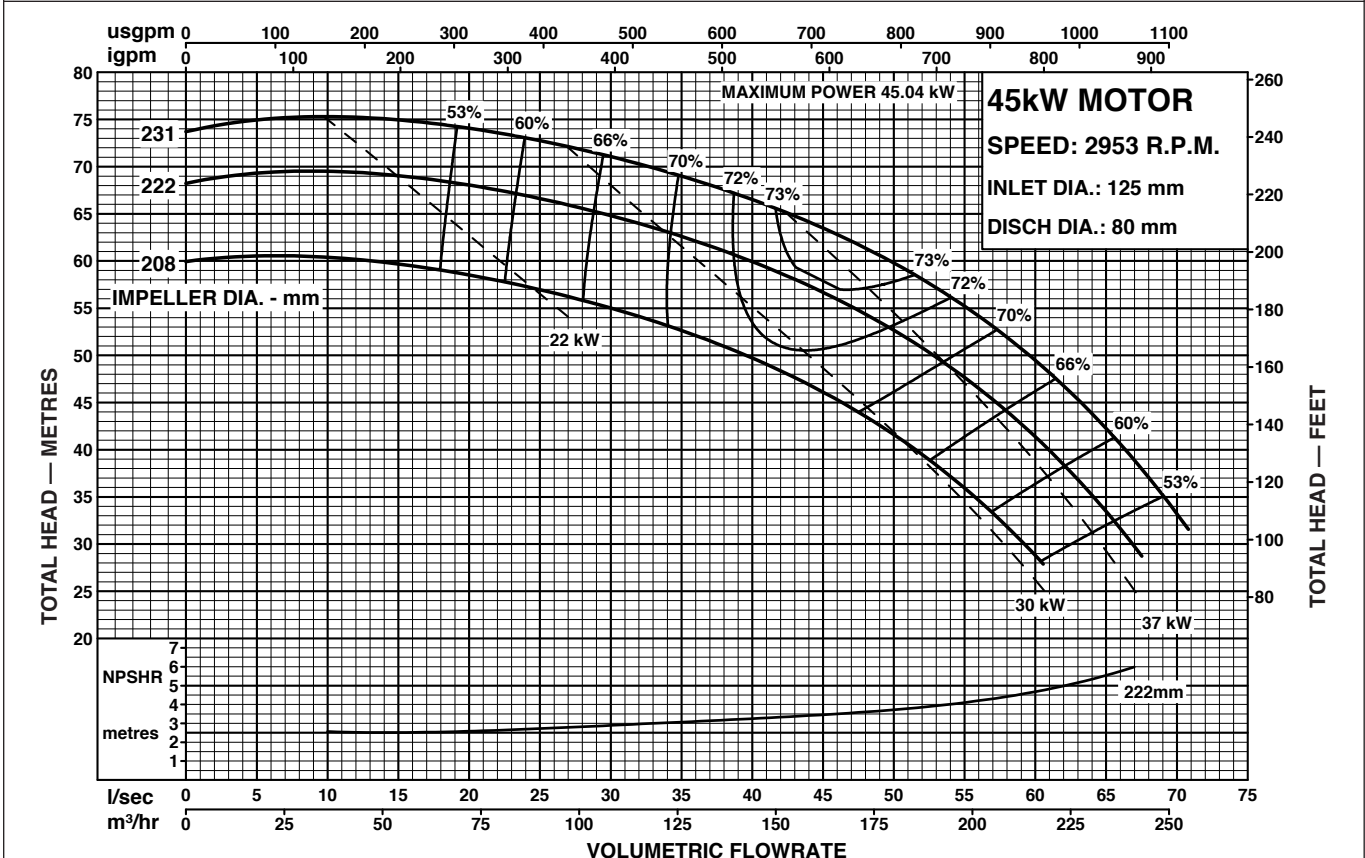


CENTRIFUGAL PUMP PERFORMANCE DATA



Performance to AS2417 Grade 2 for clean, cold water only.

May 2005

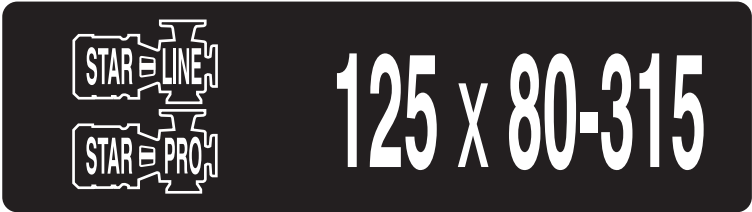


Performance to AS2417 Grade 2 for clean, cold water only.

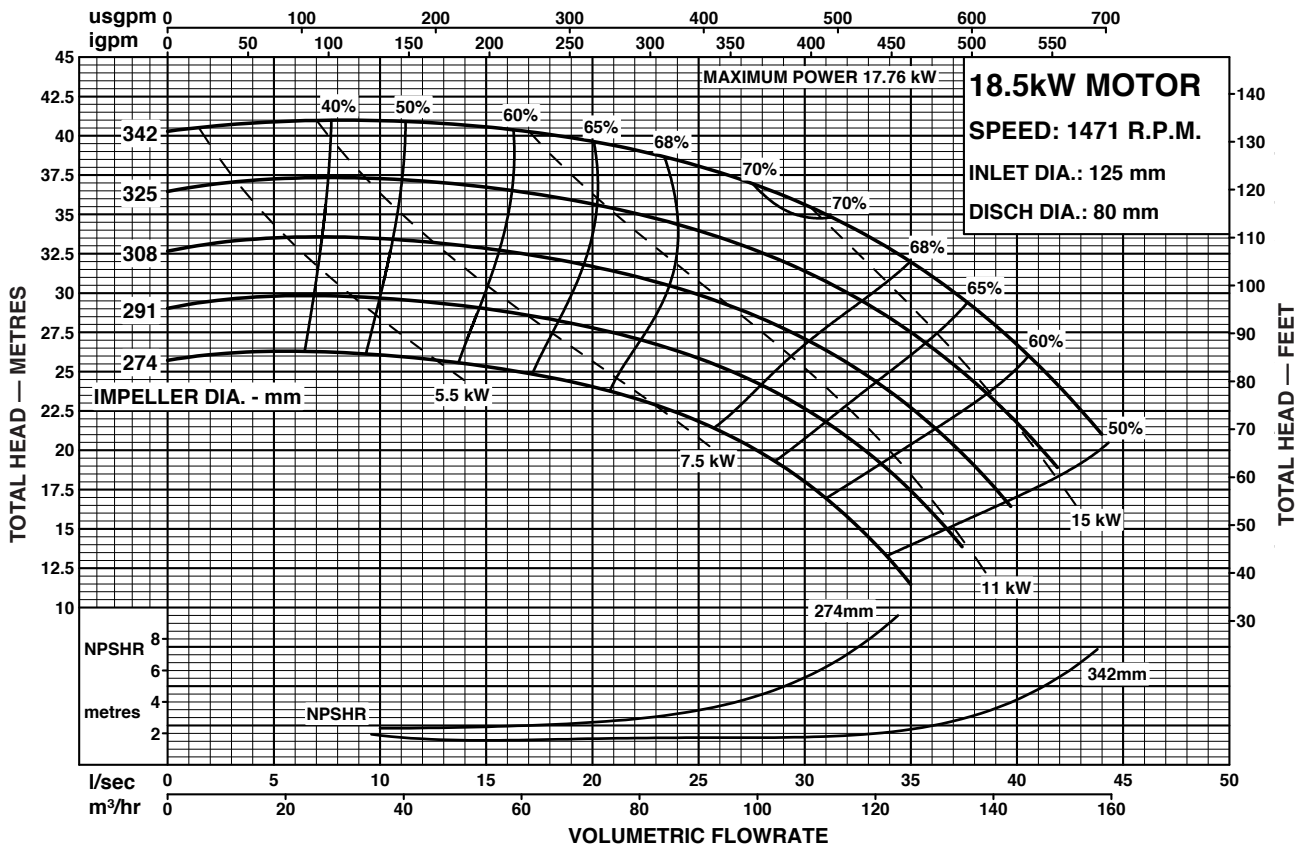
May 2005



CENTRIFUGAL PUMP PERFORMANCE DATA

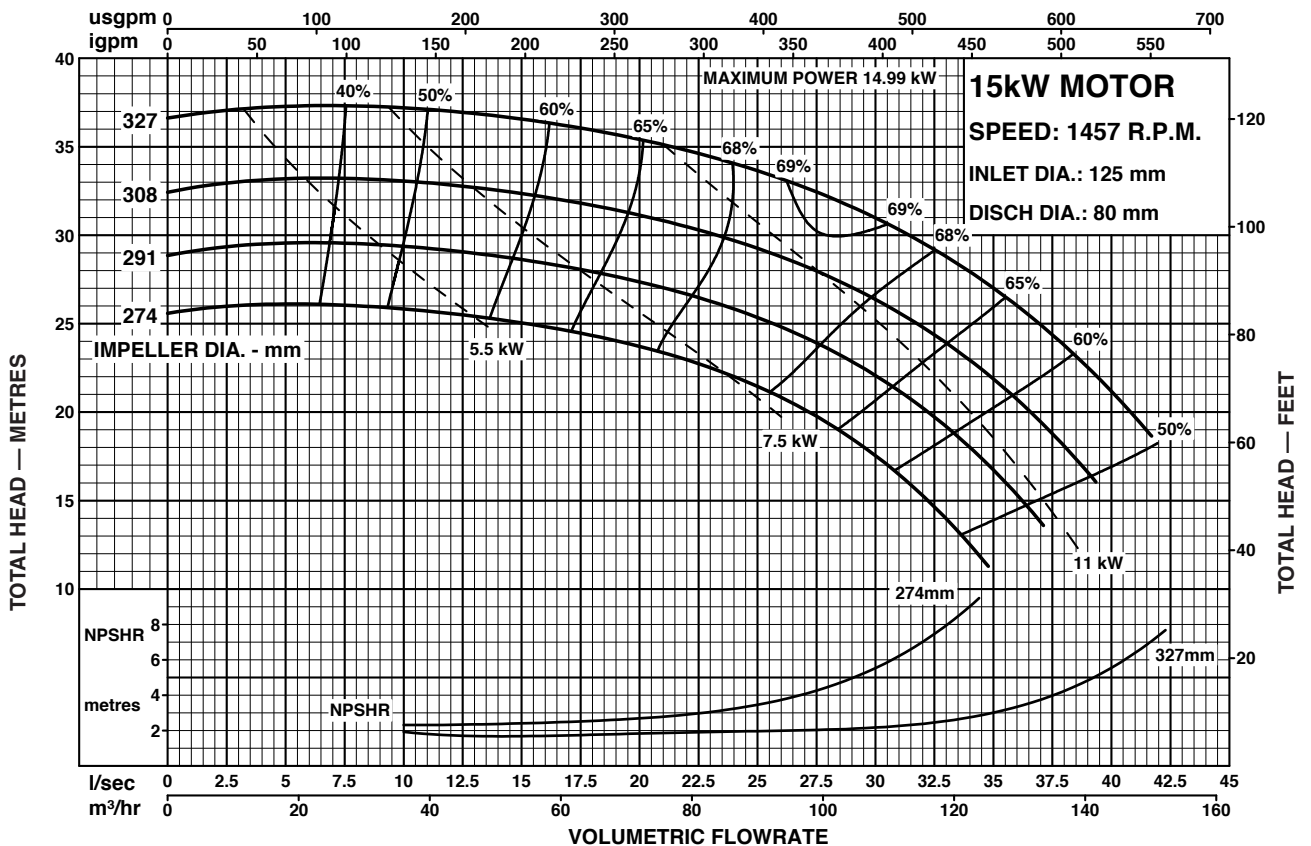


125 x 80-315



Performance to AS2417 Grade 2 for clean, cold water only.

May 2005



Performance to AS2417 Grade 2 for clean, cold water only.

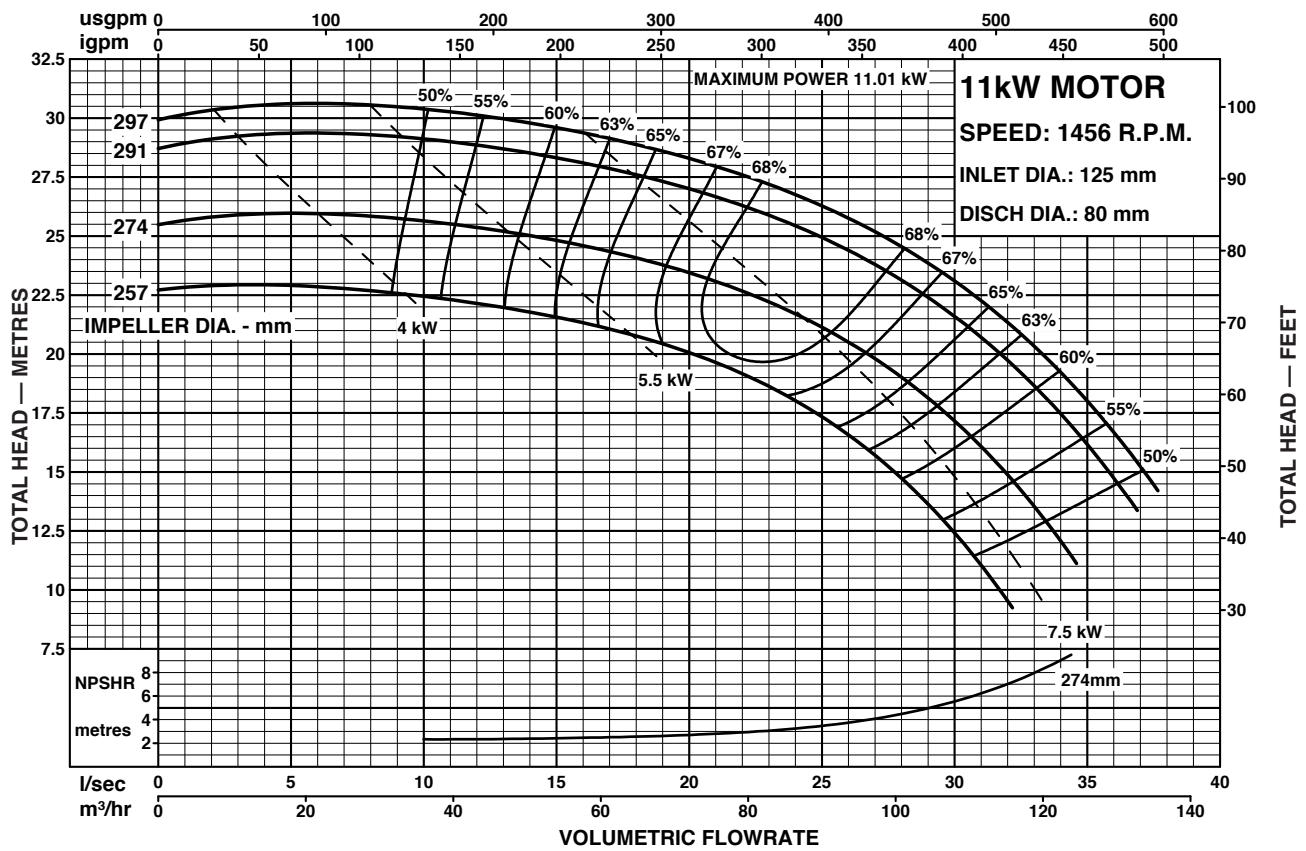
May 2005

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125 x 80-315



CENTRIFUGAL PUMP PERFORMANCE DATA



Performance to AS2417 Grade 2 for clean, cold water only.

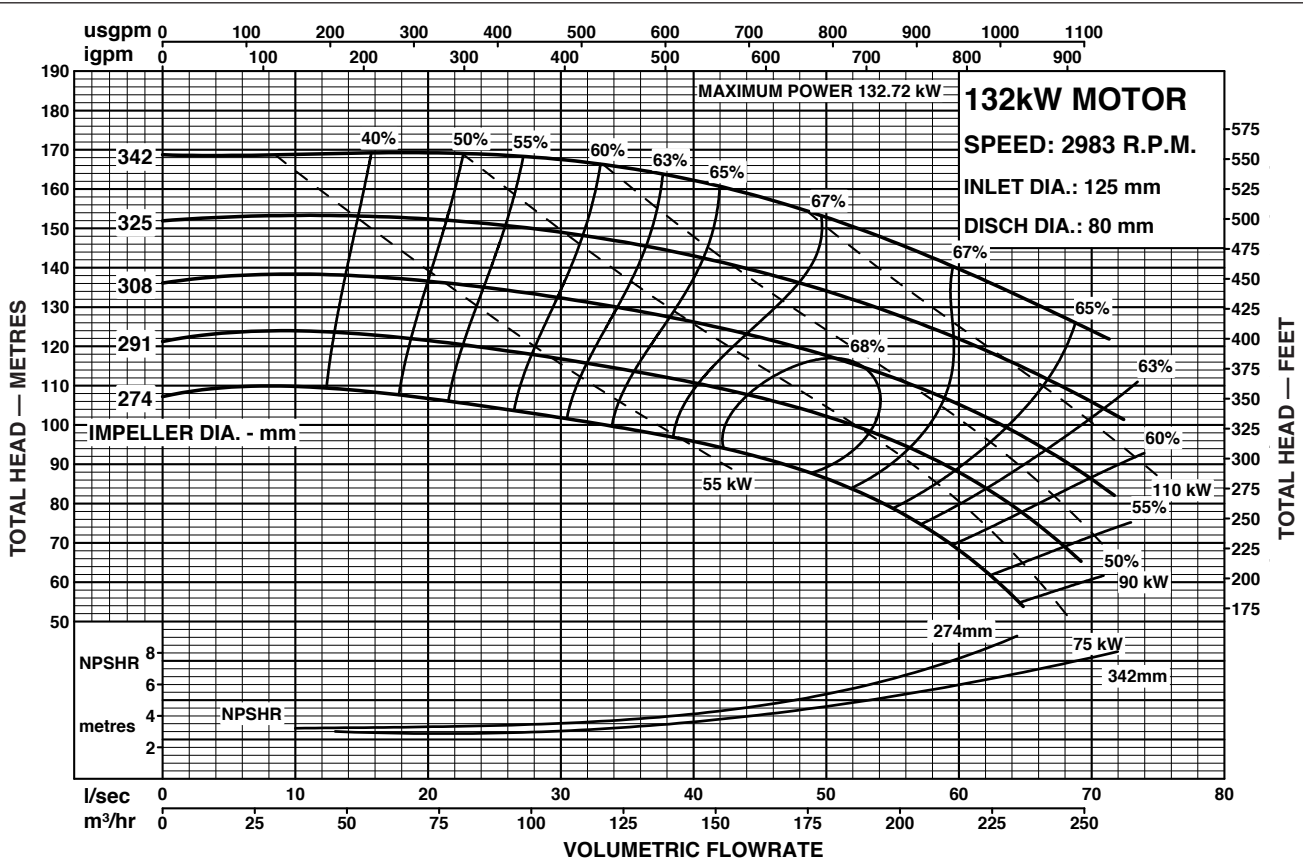
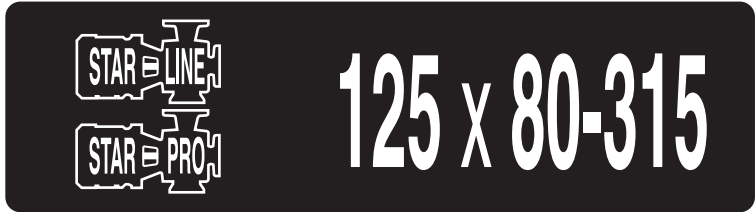
May 2005

Performance to AS2417 Grade 2 for clean, cold water only.

May 2005

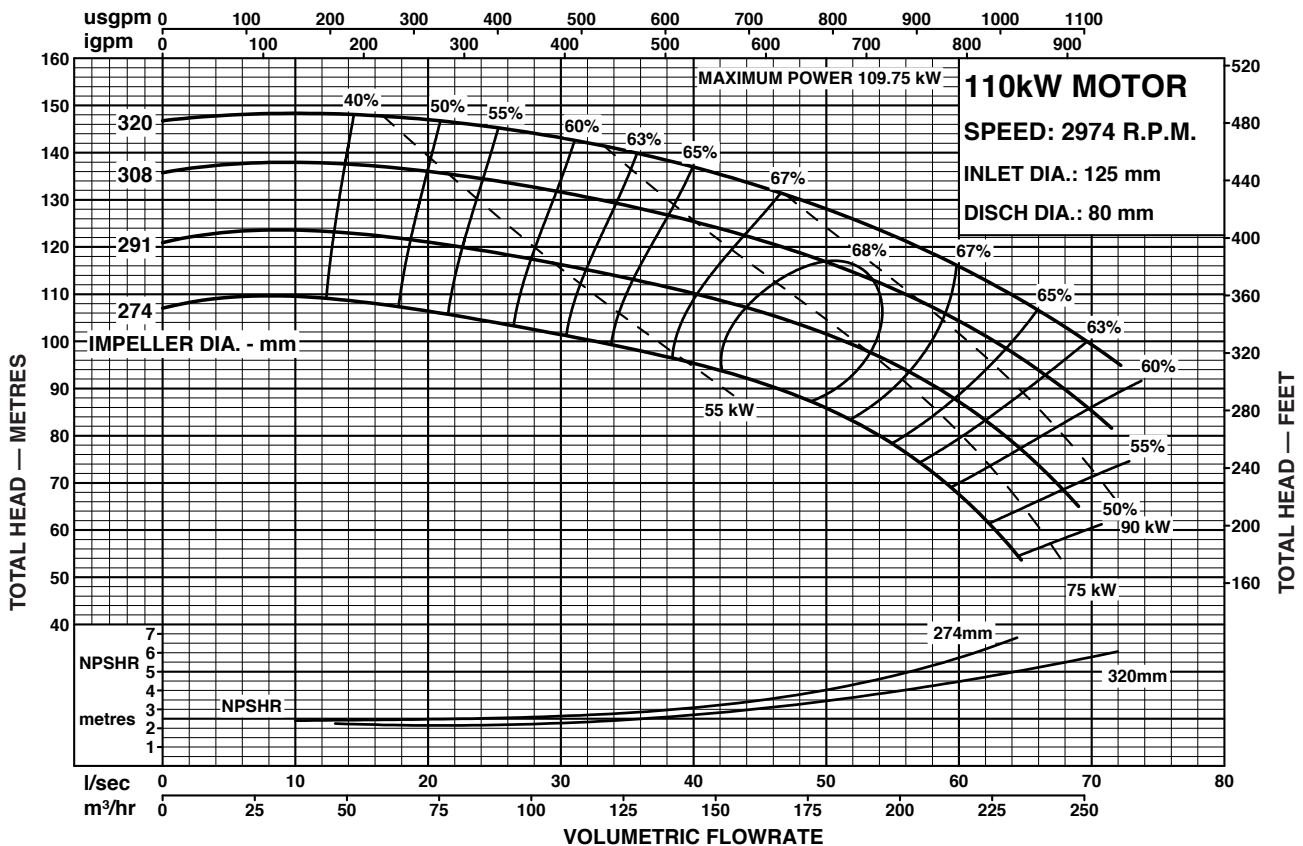


CENTRIFUGAL PUMP PERFORMANCE DATA



Performance to AS2417 Grade 2 for clean, cold water only.

May 2005



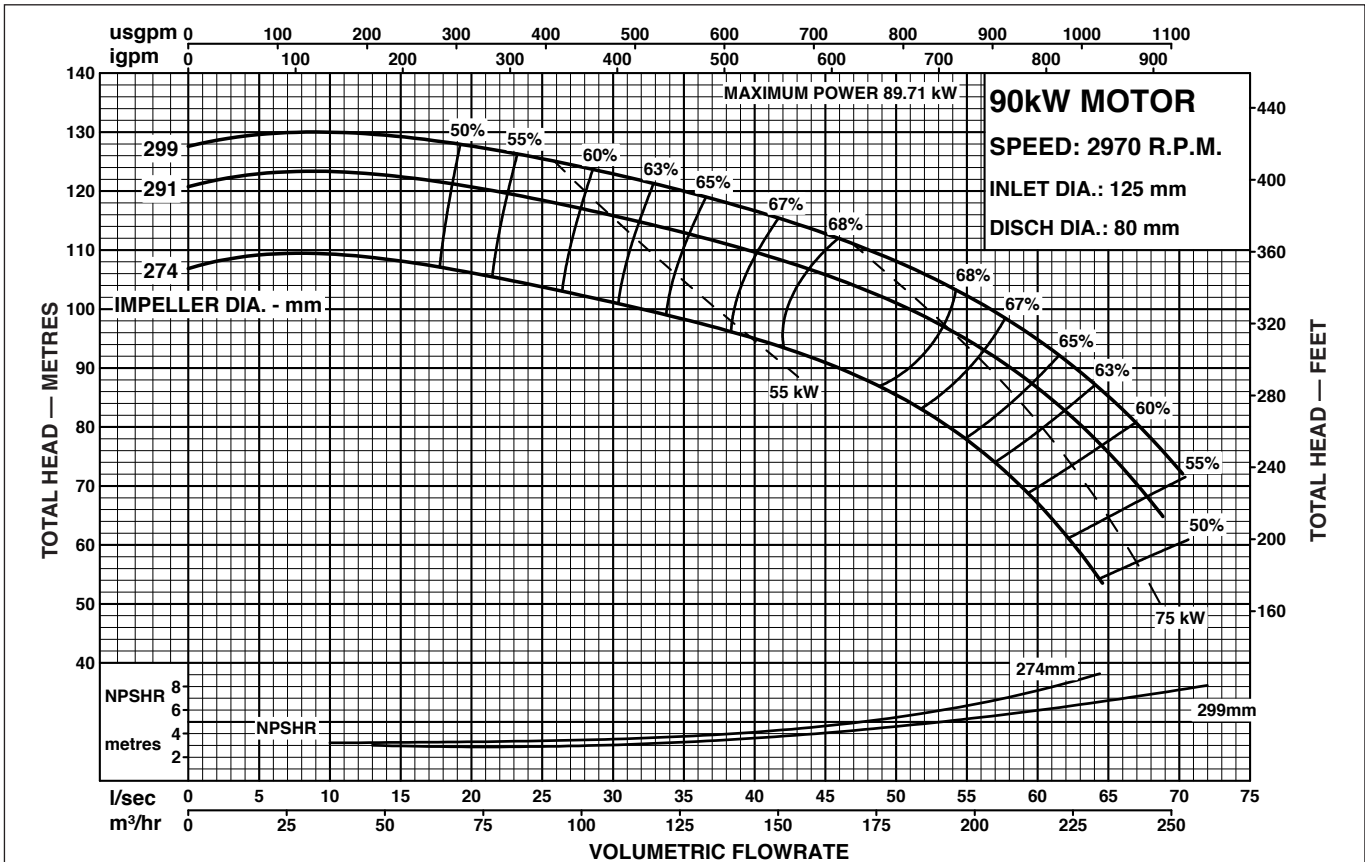
Performance to AS2417 Grade 2 for clean, cold water only.

May 2005

125 x 80-315

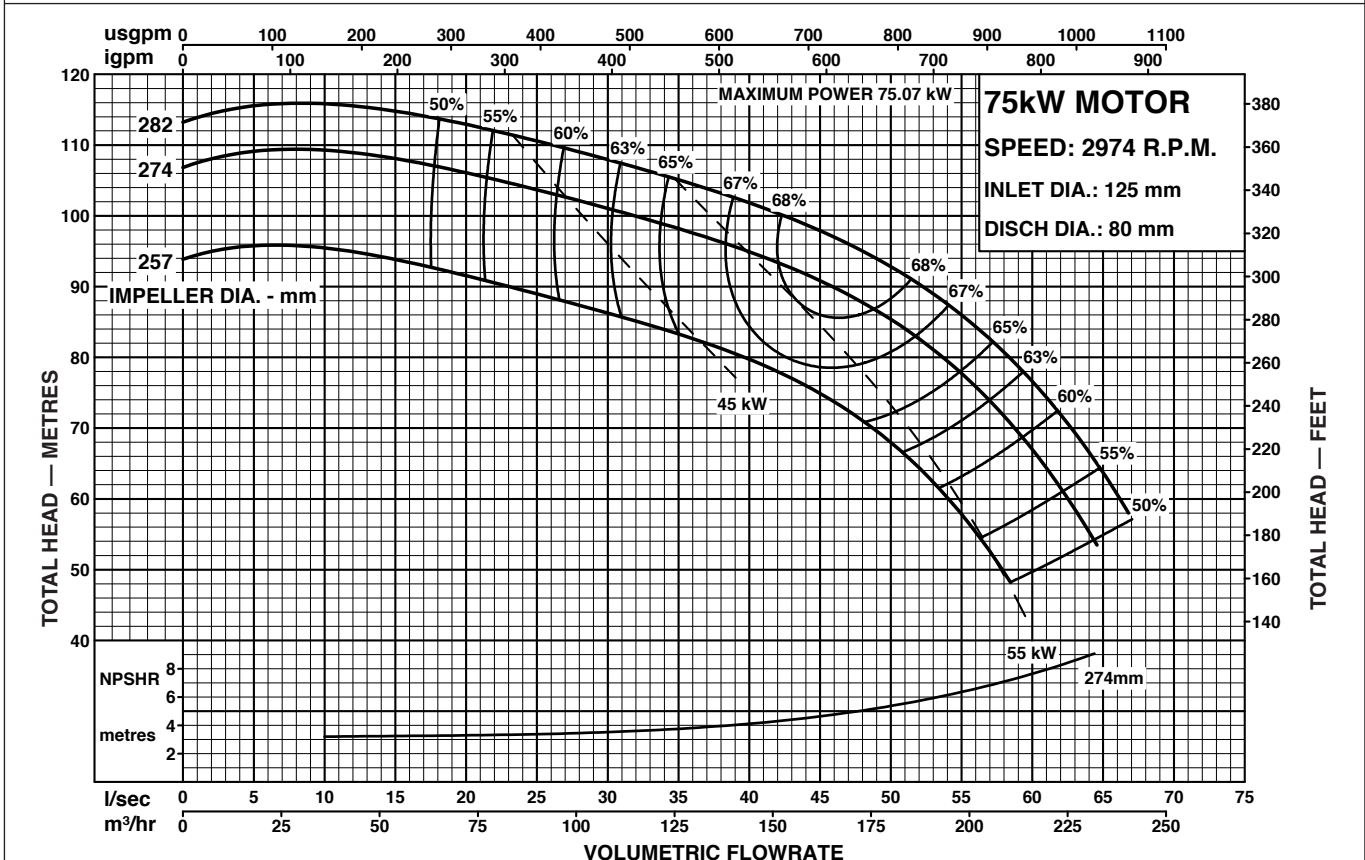


CENTRIFUGAL PUMP PERFORMANCE DATA



Performance to AS2417 Grade 2 for clean, cold water only.

May 2005

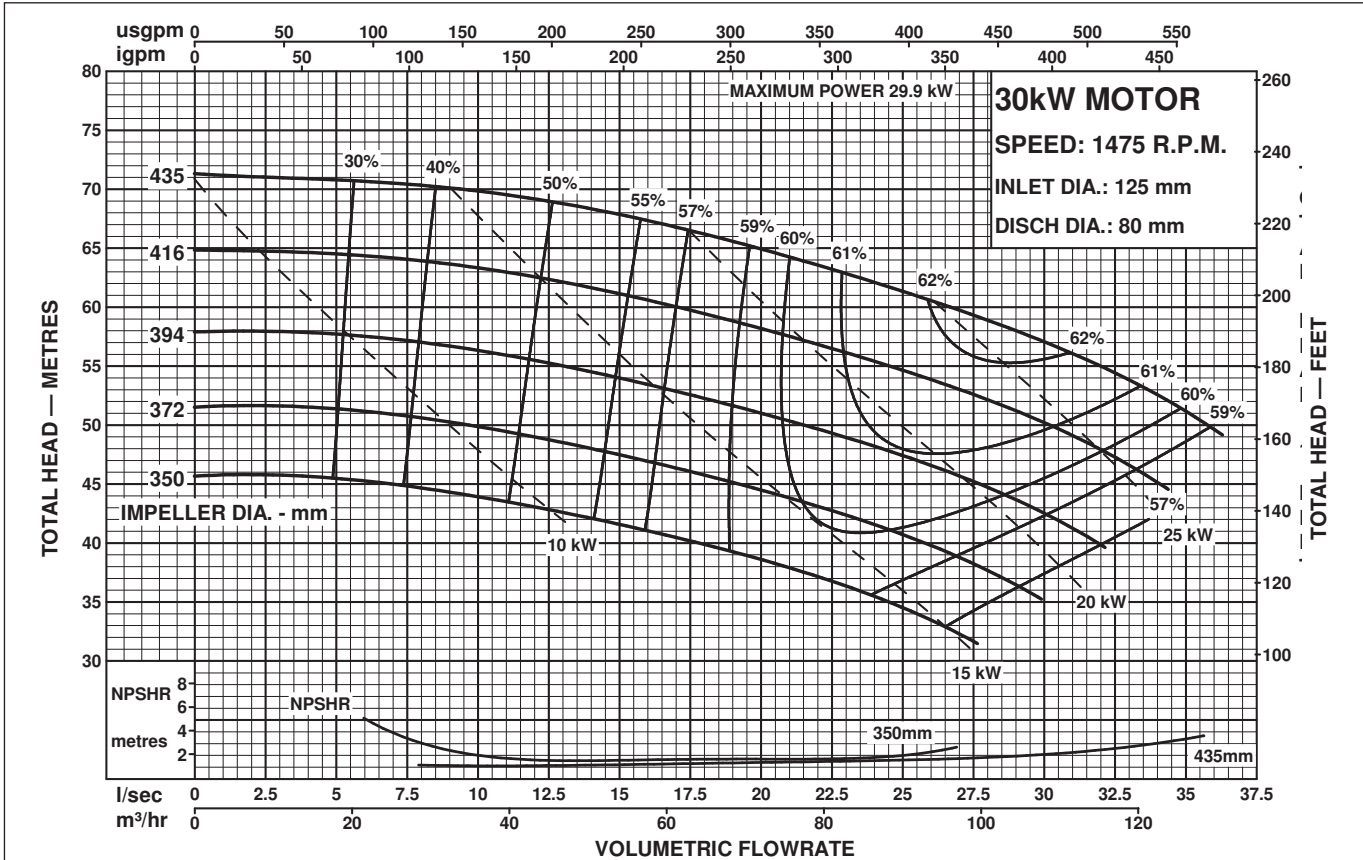


Performance to AS2417 Grade 2 for clean, cold water only.

May 2005

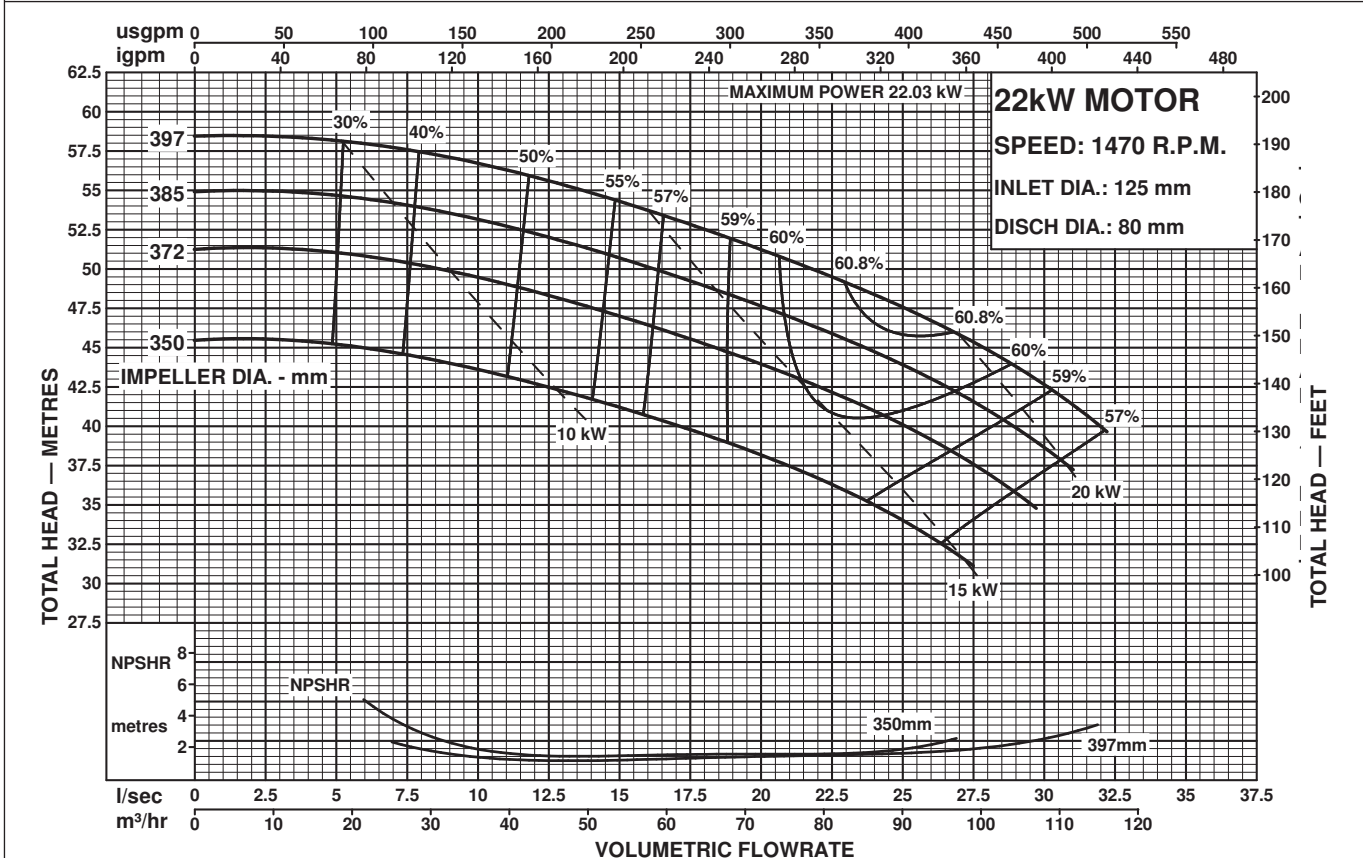


CENTRIFUGAL PUMP PERFORMANCE DATA



Performance to AS2417 Grade 2 for clean, cold water only.

May 2005



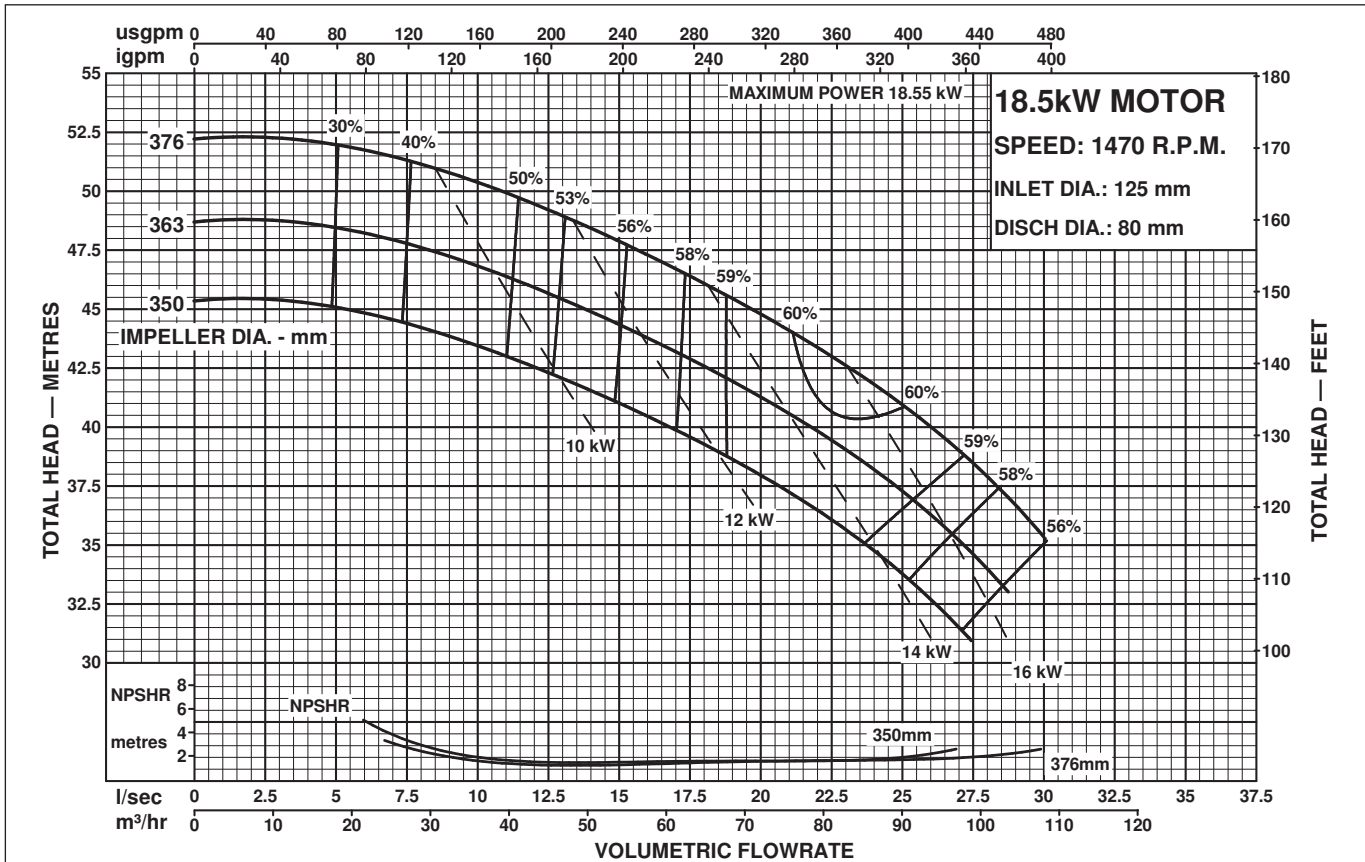
Performance to AS2417 Grade 2 for clean, cold water only.

May 2005

125 x 80-400

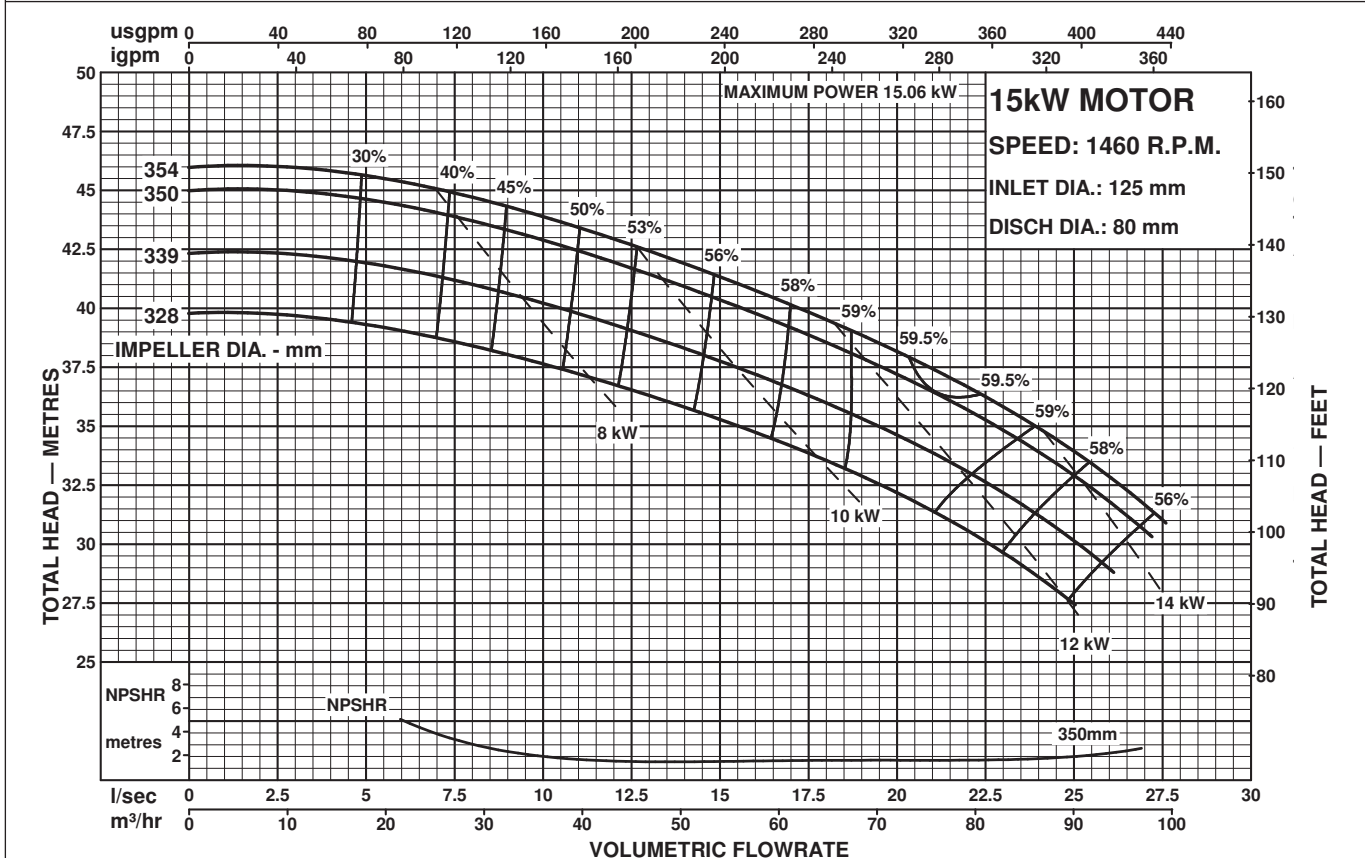


CENTRIFUGAL PUMP PERFORMANCE DATA



Performance to AS2417 Grade 2 for clean, cold water only.

May 2005



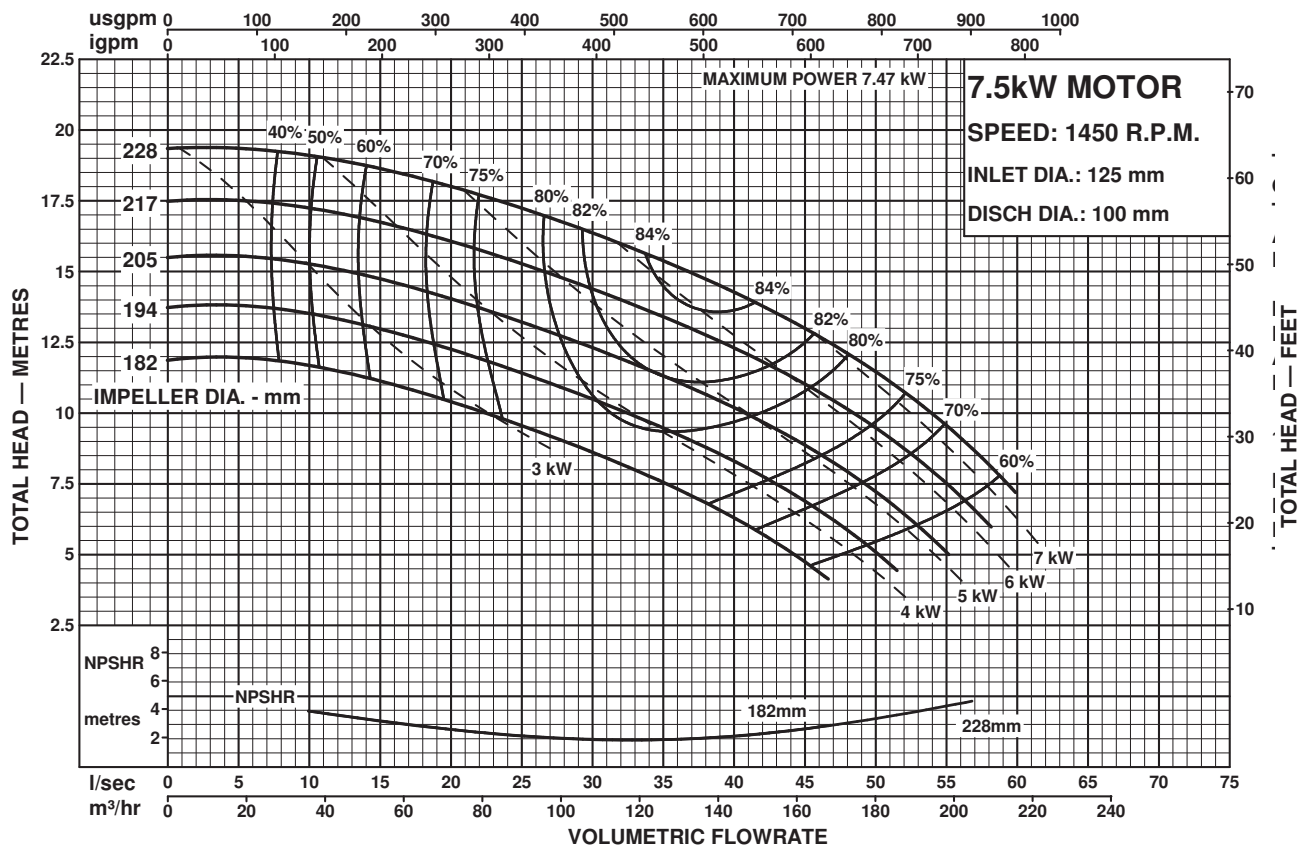
Performance to AS2417 Grade 2 for clean, cold water only.

May 2005



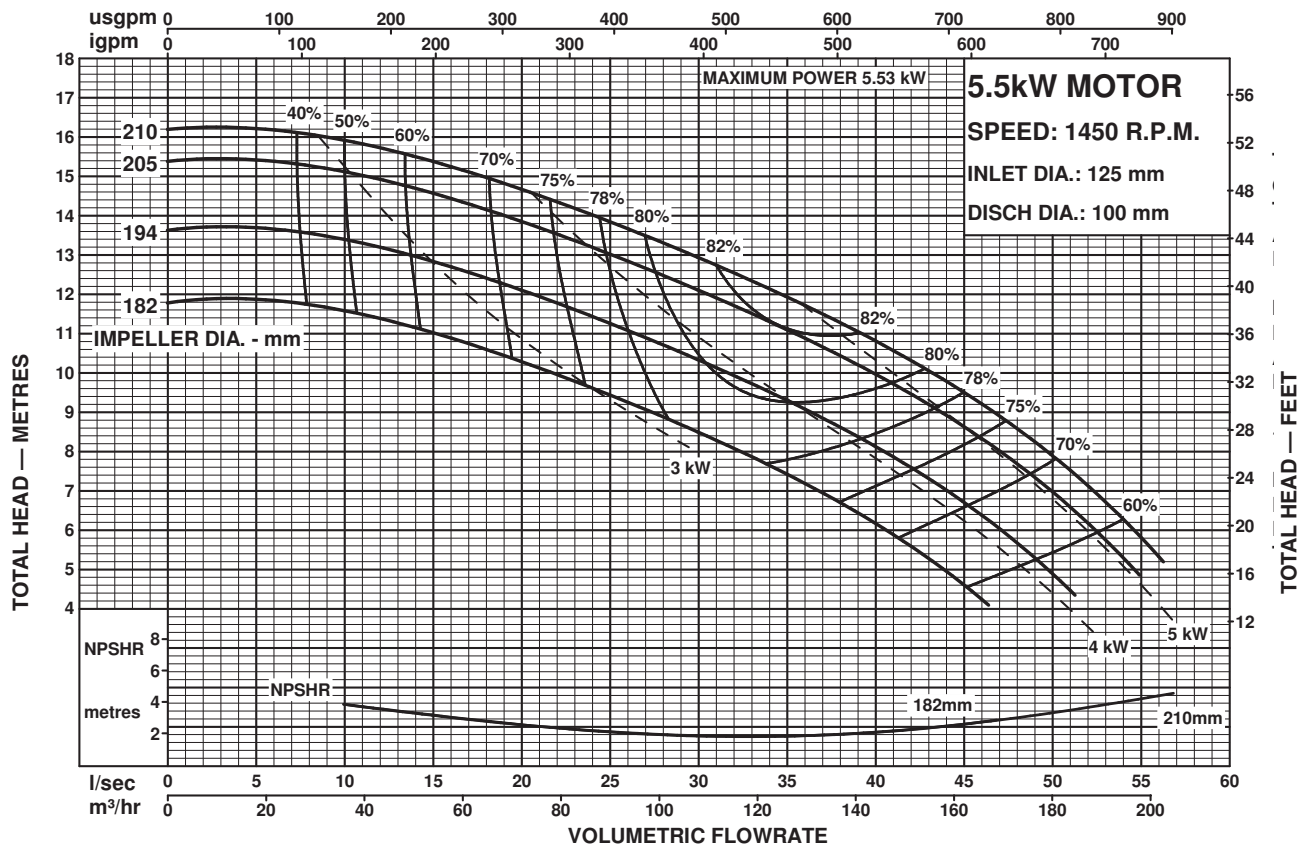
CENTRIFUGAL PUMP PERFORMANCE DATA

125 x 100-200



Performance to AS2417 Grade 2 for clean, cold water only.

May 2005



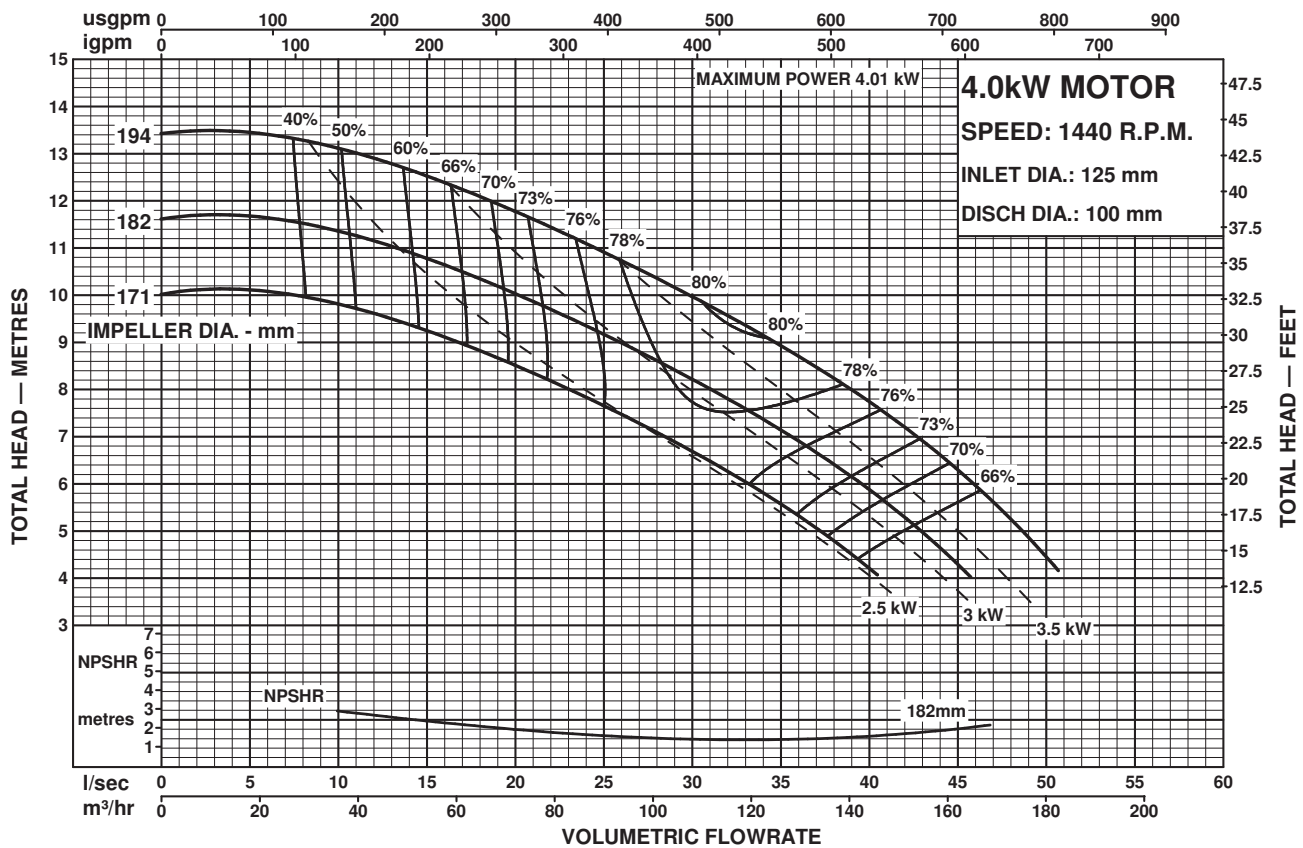
Performance to AS2417 Grade 2 for clean, cold water only.

May 2005

125 x 100-200



CENTRIFUGAL PUMP PERFORMANCE DATA



Performance to AS2417 Grade 2 for clean, cold water only.

May 2005

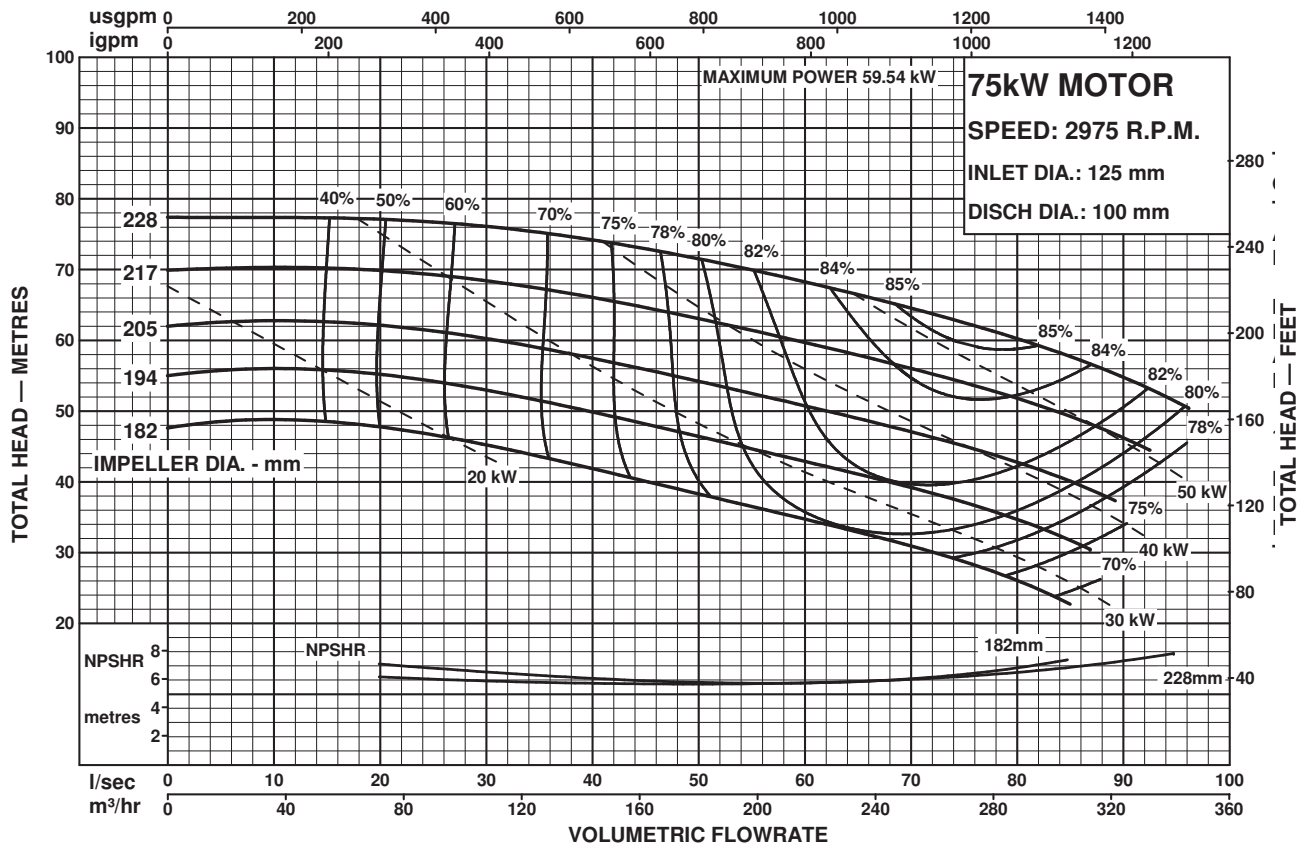
Performance to AS2417 Grade 2 for clean, cold water only.

May 2005



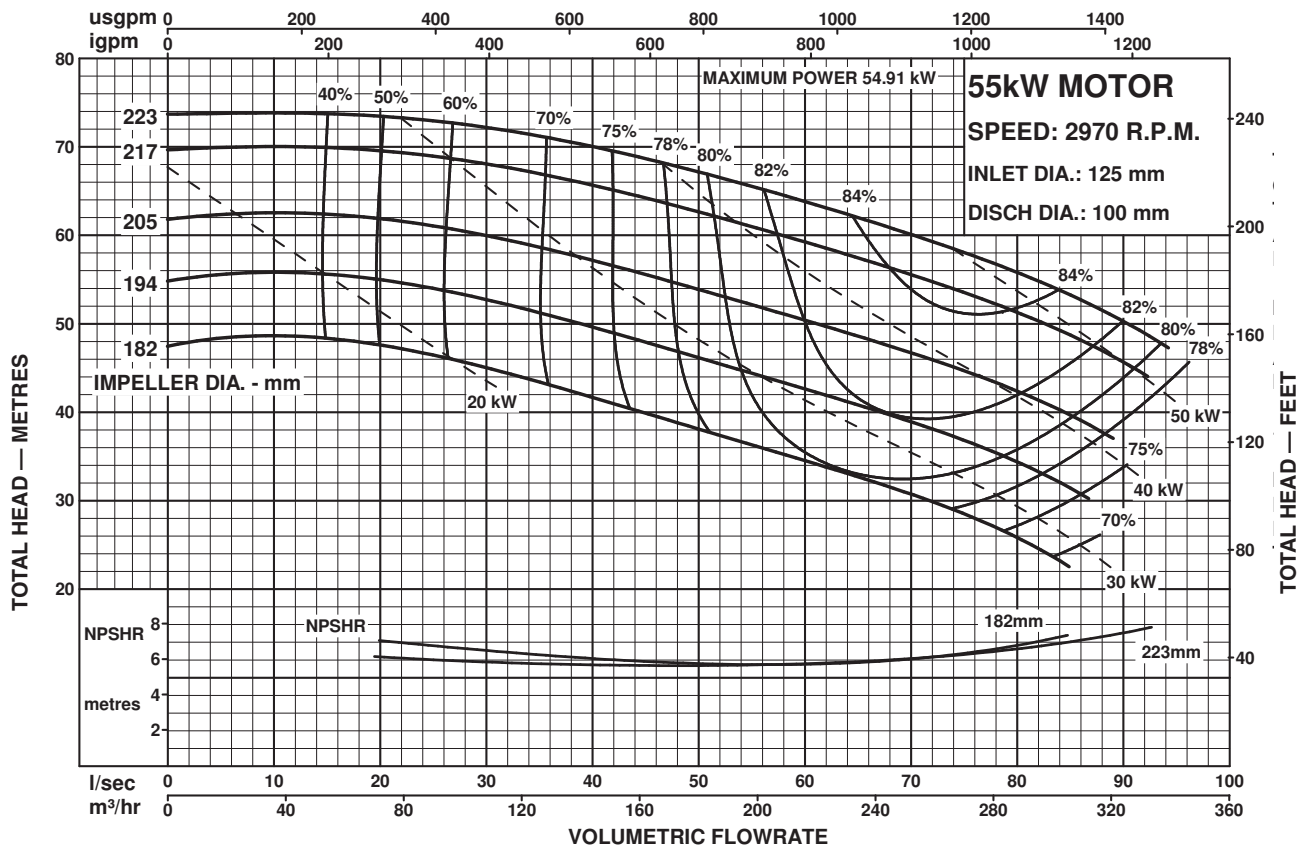
CENTRIFUGAL PUMP PERFORMANCE DATA

125 x 100-200



Performance to AS2417 Grade 2 for clean, cold water only.

May 2005



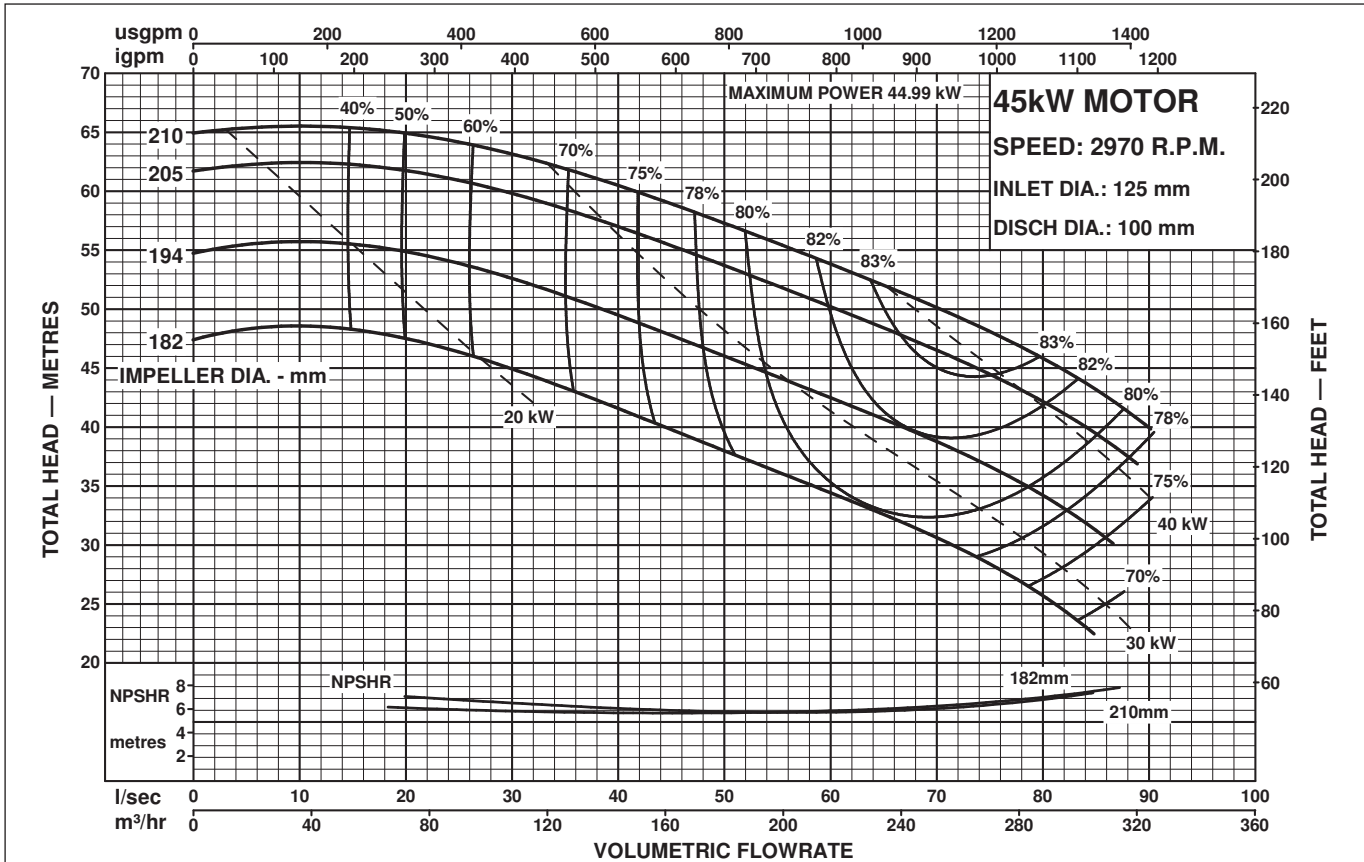
Performance to AS2417 Grade 2 for clean, cold water only.

May 2005

125 x 100-200

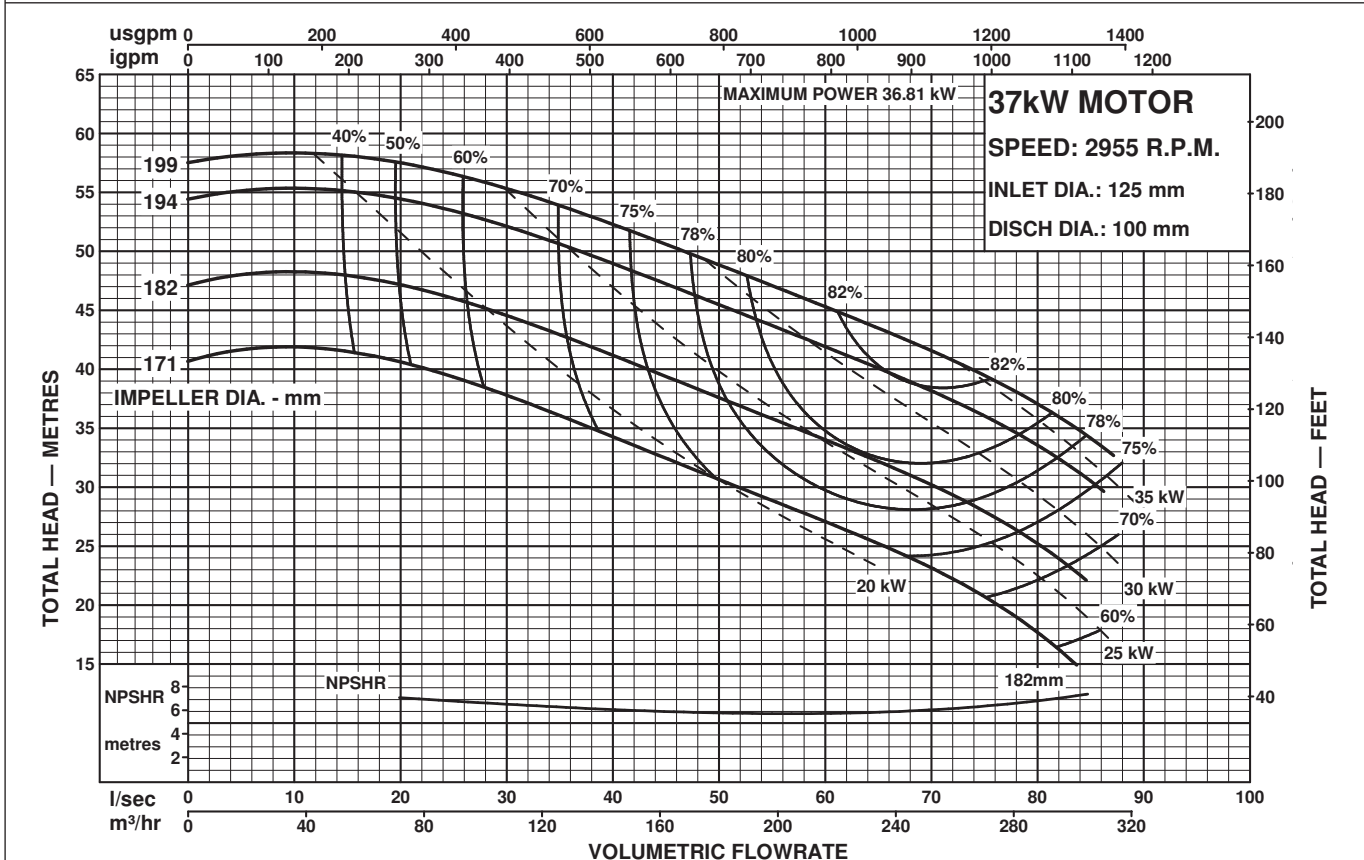


CENTRIFUGAL PUMP PERFORMANCE DATA



Performance to AS2417 Grade 2 for clean, cold water only.

May 2005



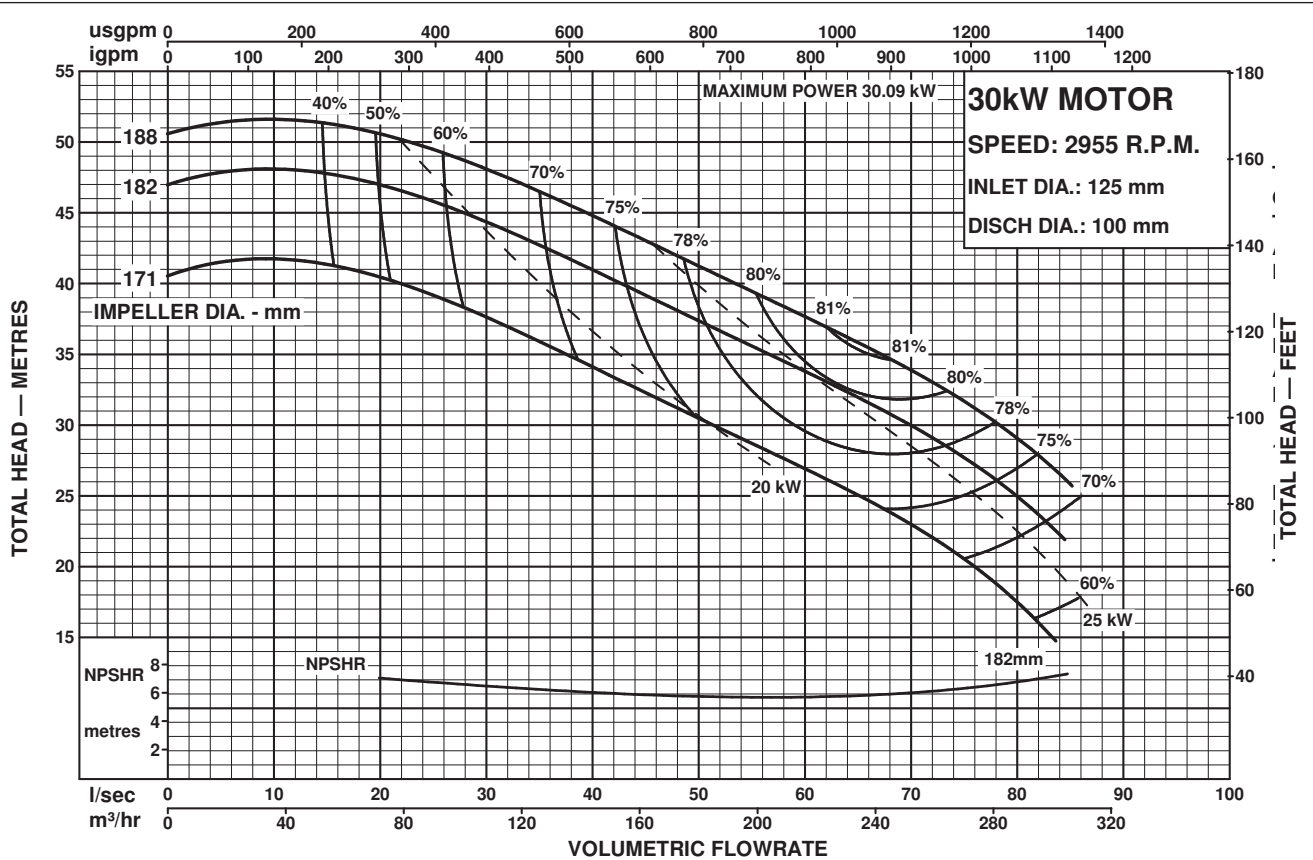
Performance to AS2417 Grade 2 for clean, cold water only.

May 2005



CENTRIFUGAL PUMP PERFORMANCE DATA

125 x 100-200



Performance to AS2417 Grade 2 for clean, cold water only.

May 2005

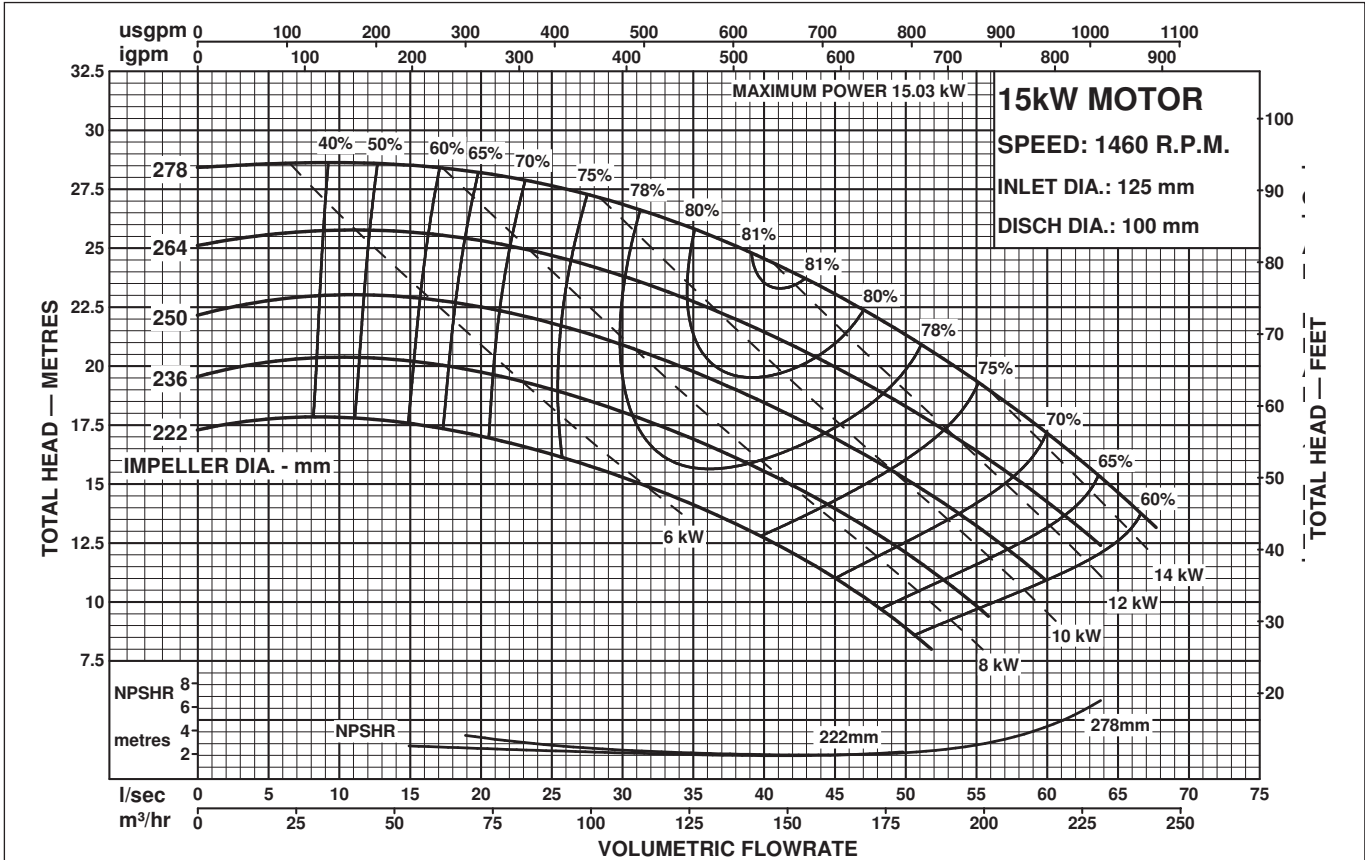
Performance to AS2417 Grade 2 for clean, cold water only.

May 2005



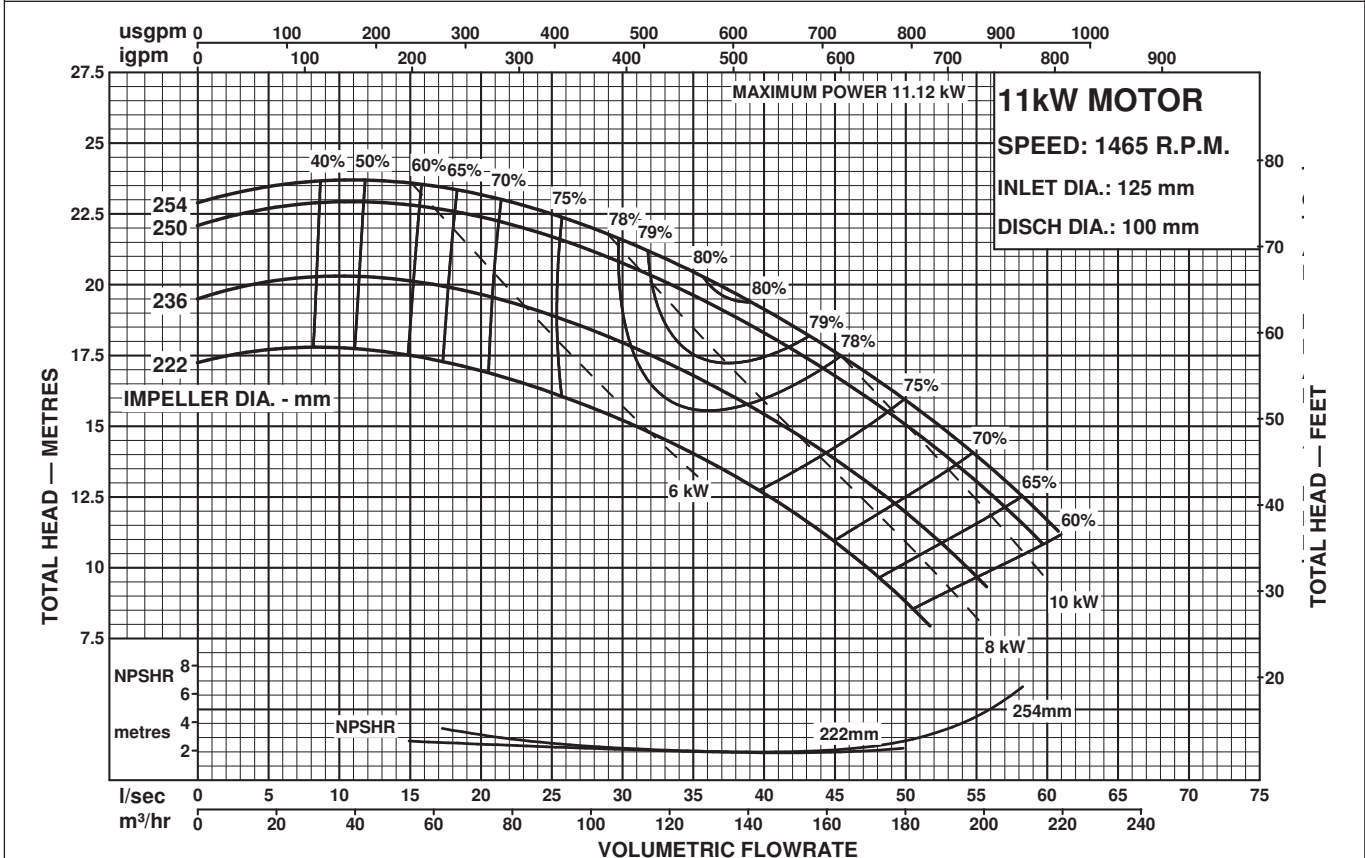
CENTRIFUGAL PUMP PERFORMANCE DATA

125 x 100-250



Performance to AS2417 Grade 2 for clean, cold water only.

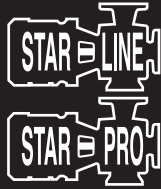
May 2005



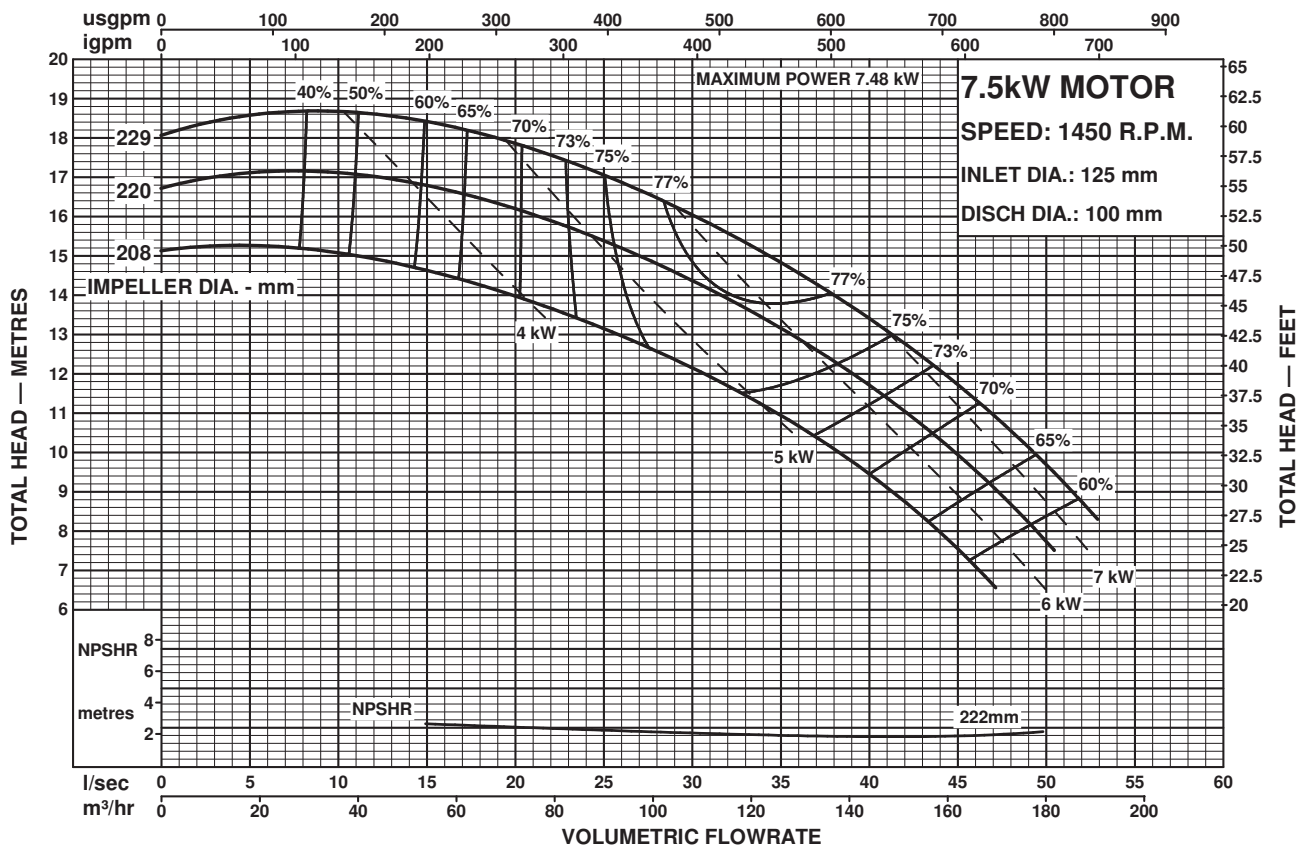
Performance to AS2417 Grade 2 for clean, cold water only.

May 2005

125 x 100-250



CENTRIFUGAL PUMP PERFORMANCE DATA



Performance to AS2417 Grade 2 for clean, cold water only.

May 2005



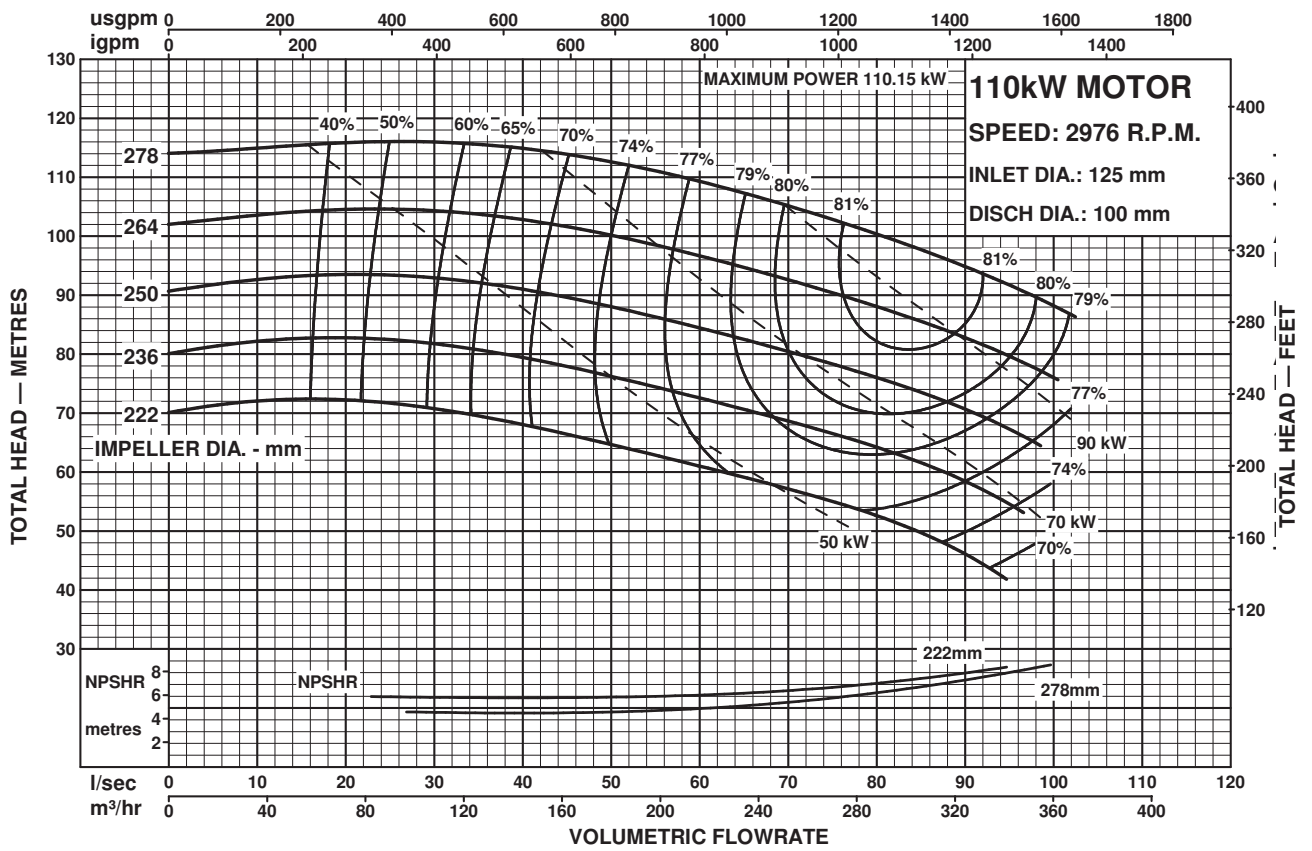
Performance to AS2417 Grade 2 for clean, cold water only.

May 2005



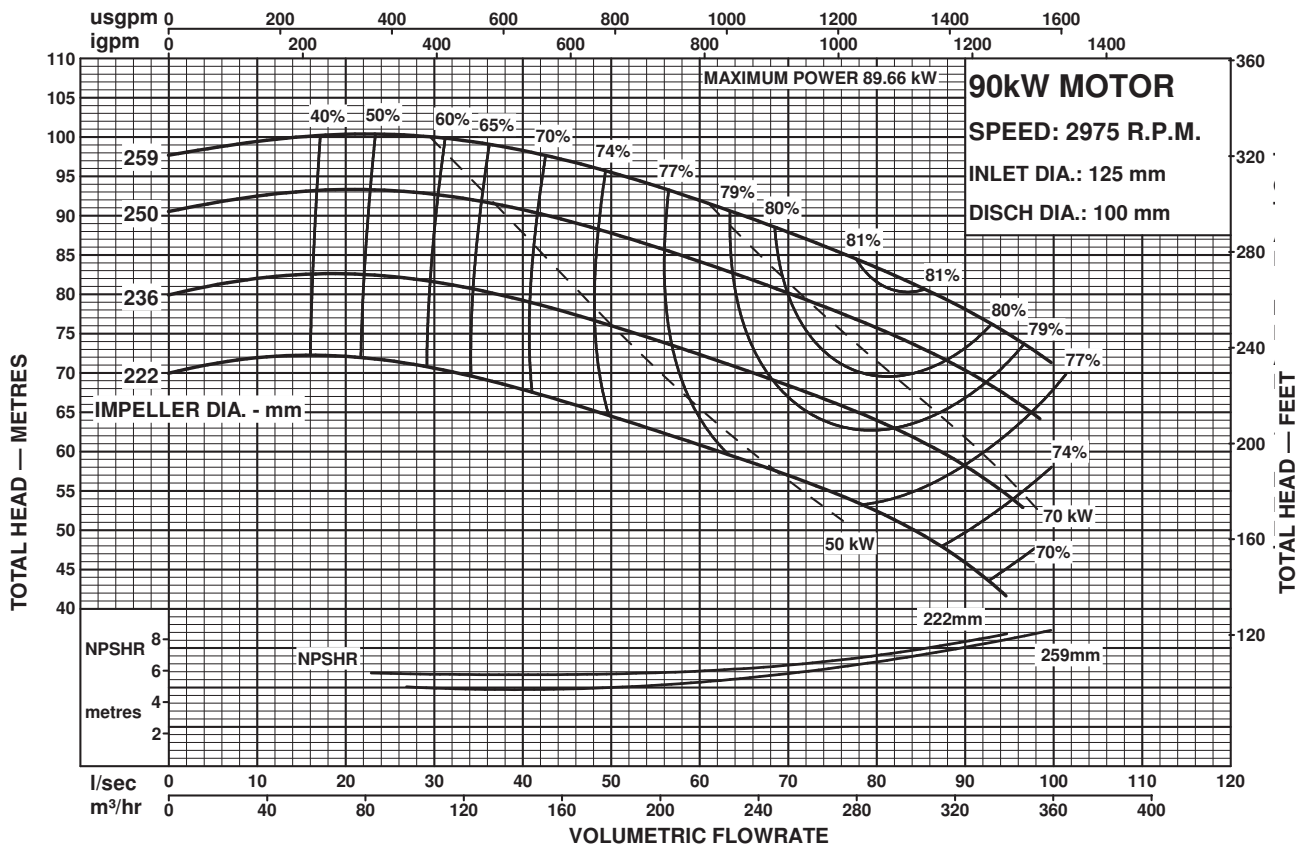
CENTRIFUGAL PUMP PERFORMANCE DATA

STAR LINE
STAR PRO
125 x 100-250



Performance to AS2417 Grade 2 for clean, cold water only.

May 2005



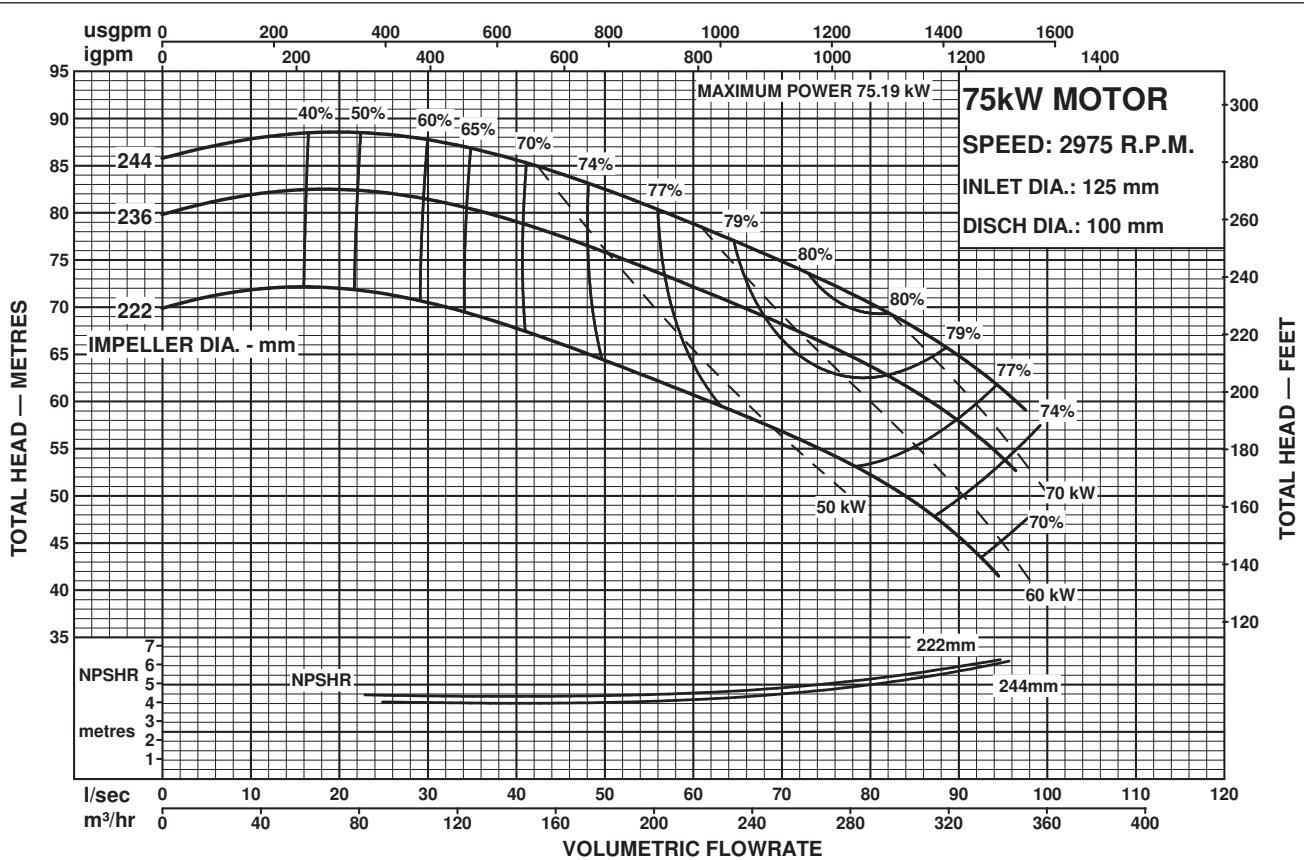
Performance to AS2417 Grade 2 for clean, cold water only.

May 2005

125 x 100-250

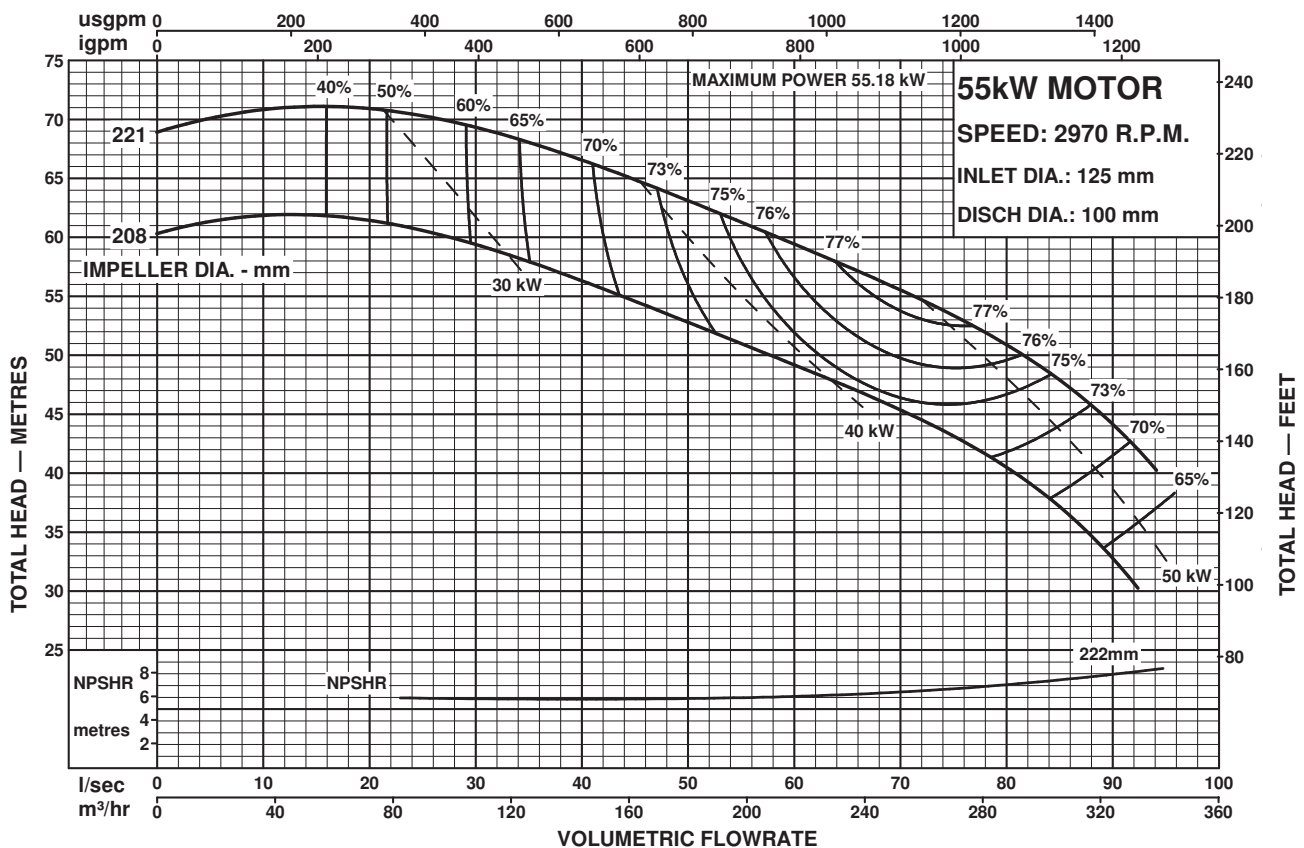


CENTRIFUGAL PUMP PERFORMANCE DATA



Performance to AS2417 Grade 2 for clean, cold water only.

May 2005

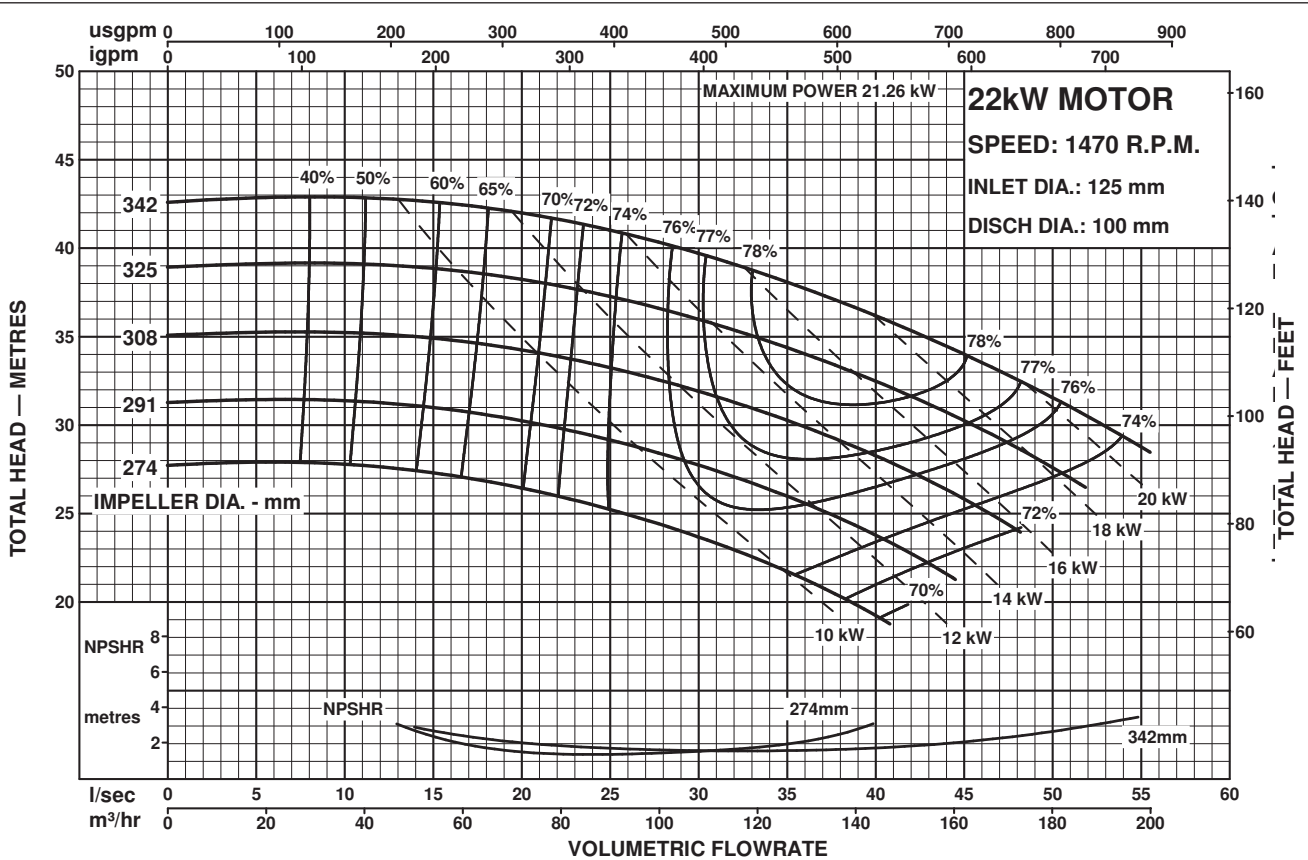


Performance to AS2417 Grade 2 for clean, cold water only.

May 2005

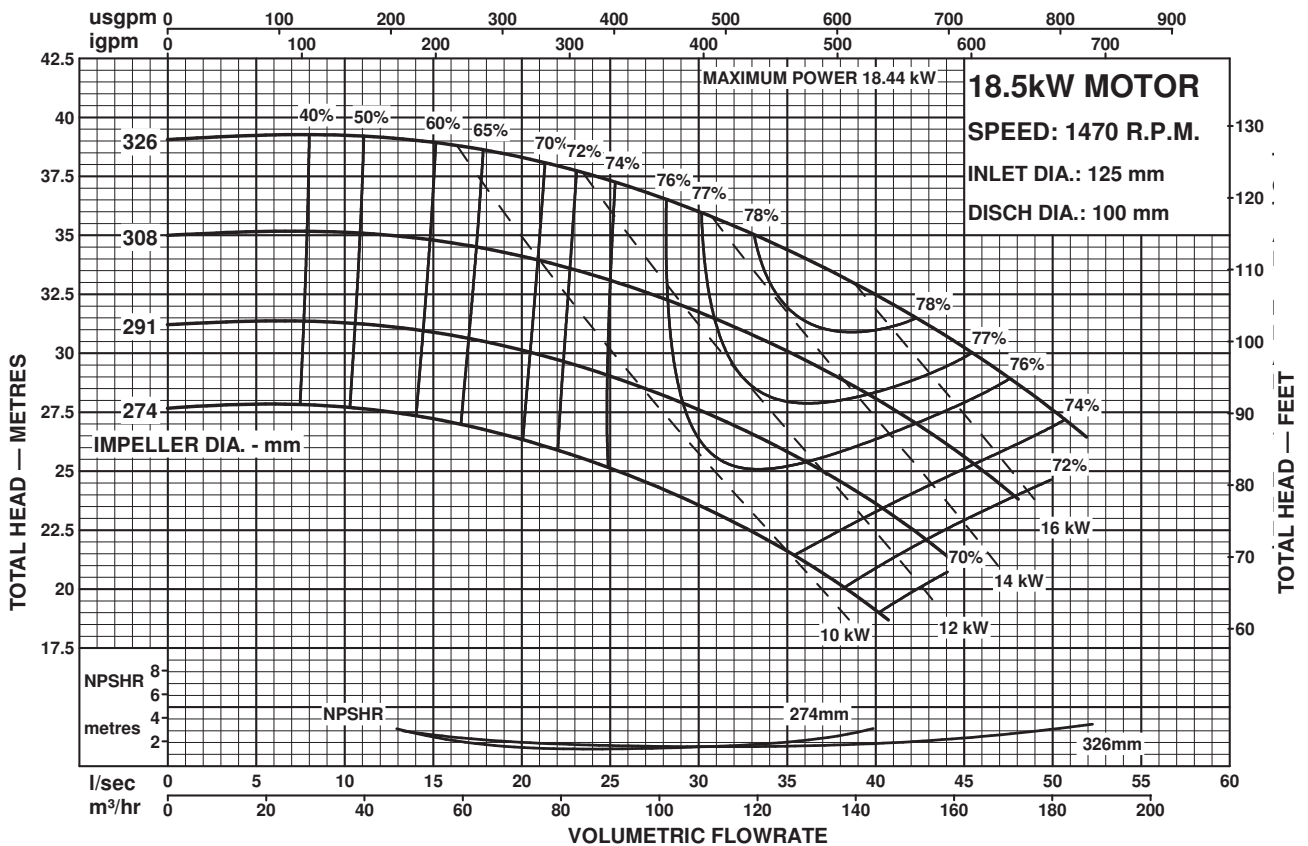


CENTRIFUGAL PUMP PERFORMANCE DATA



Performance to AS2417 Grade 2 for clean, cold water only.

May 2005



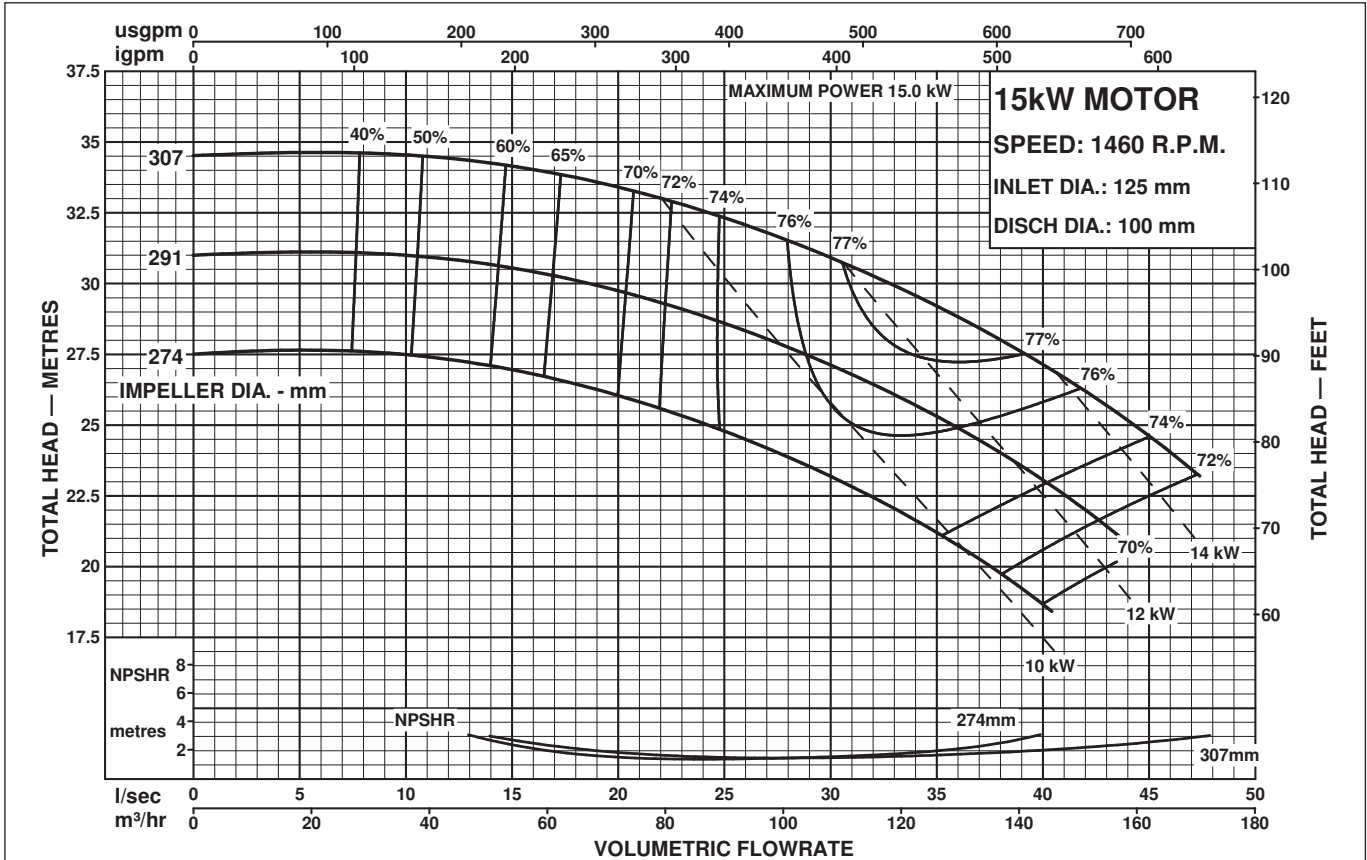
Performance to AS2417 Grade 2 for clean, cold water only.

May 2005

125 x 100-315

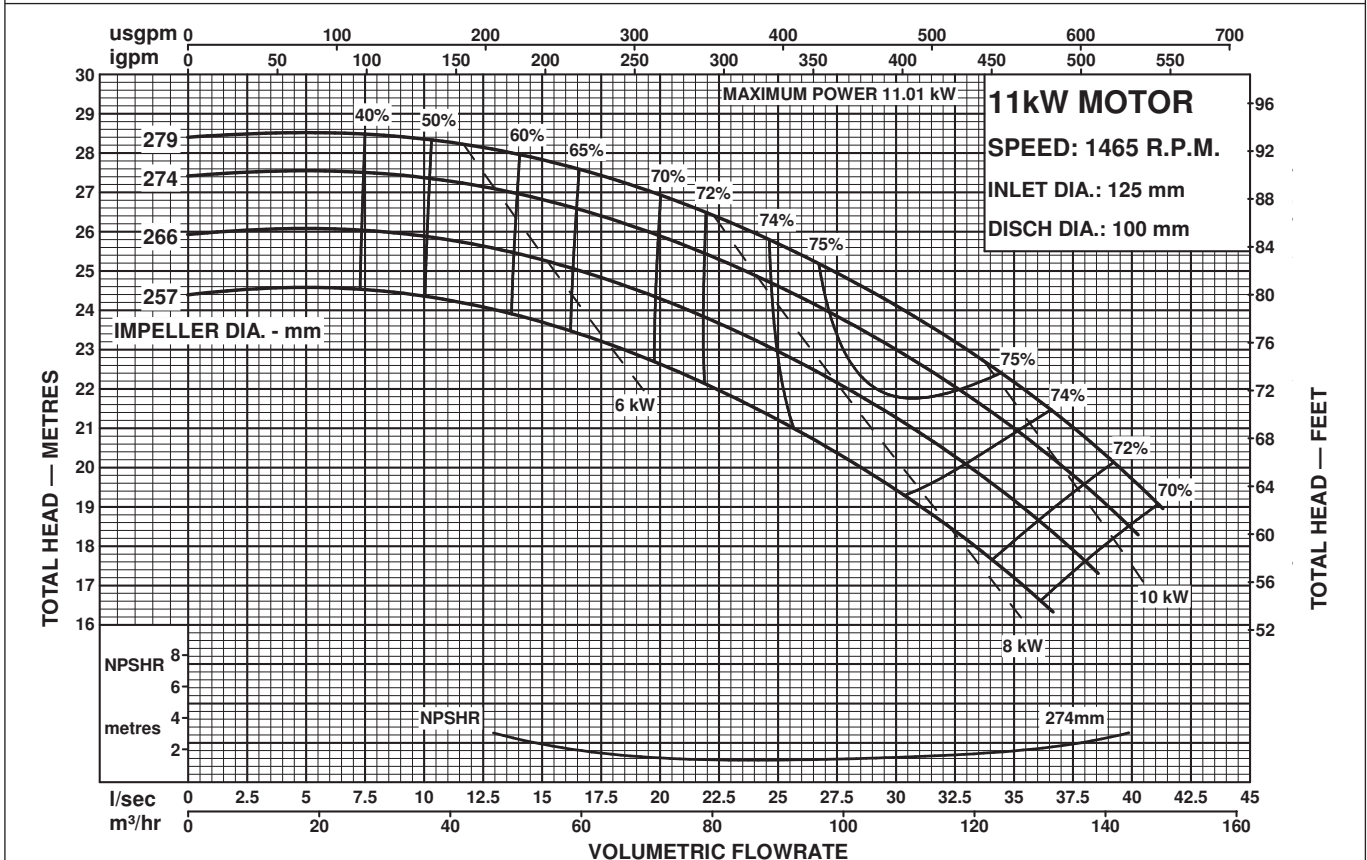


CENTRIFUGAL PUMP PERFORMANCE DATA



Performance to AS2417 Grade 2 for clean, cold water only.

May 2005



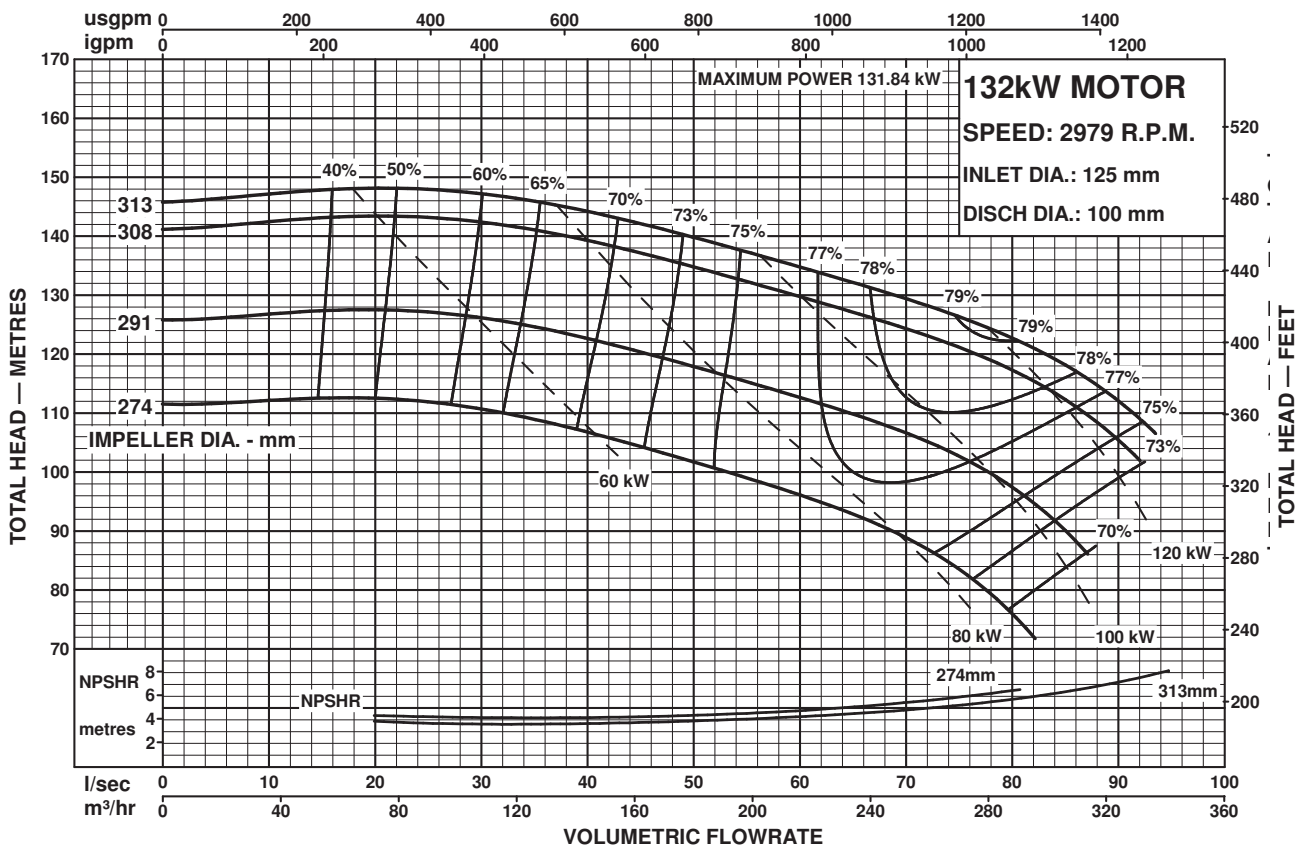
Performance to AS2417 Grade 2 for clean, cold water only.

May 2005



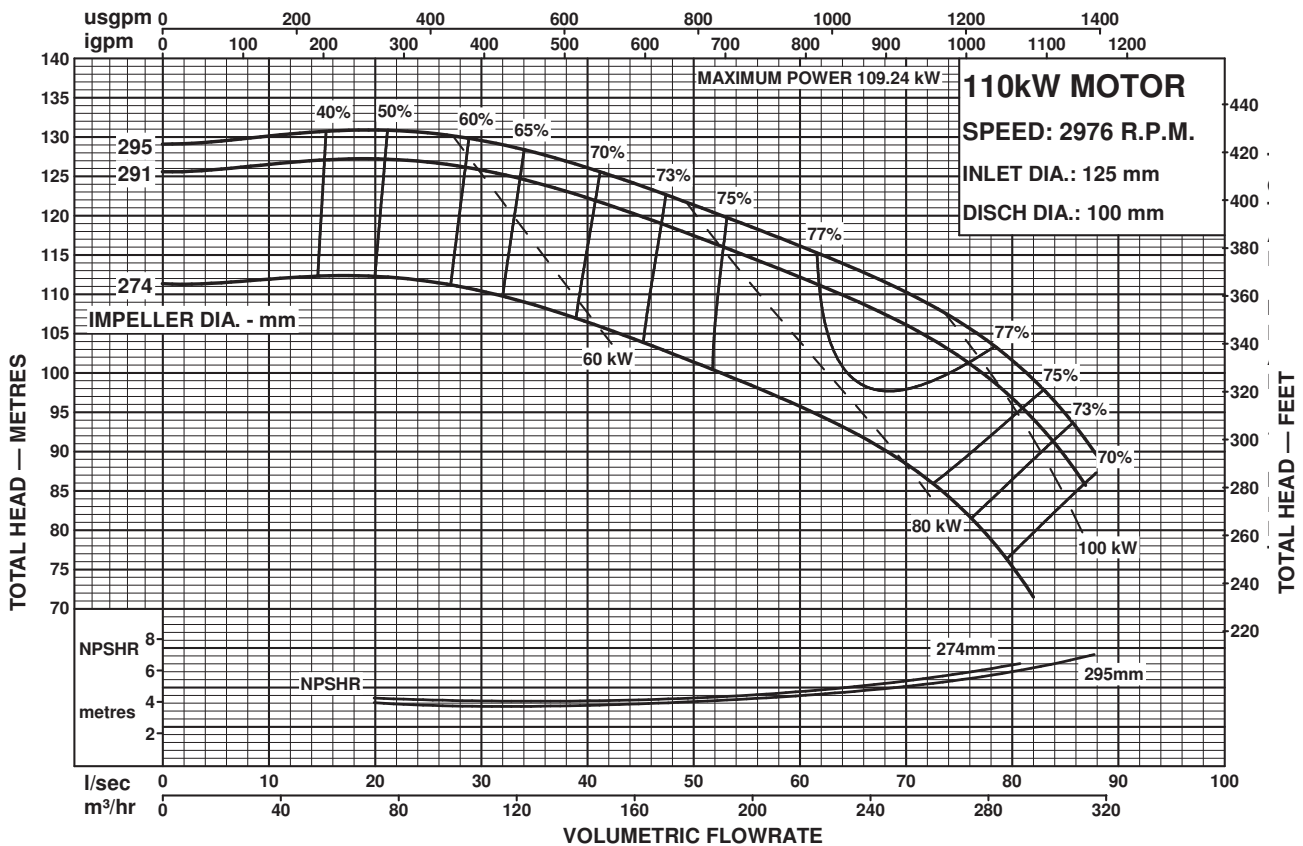
CENTRIFUGAL PUMP PERFORMANCE DATA

125 x 100-315



Performance to AS2417 Grade 2 for clean, cold water only.

May 2005



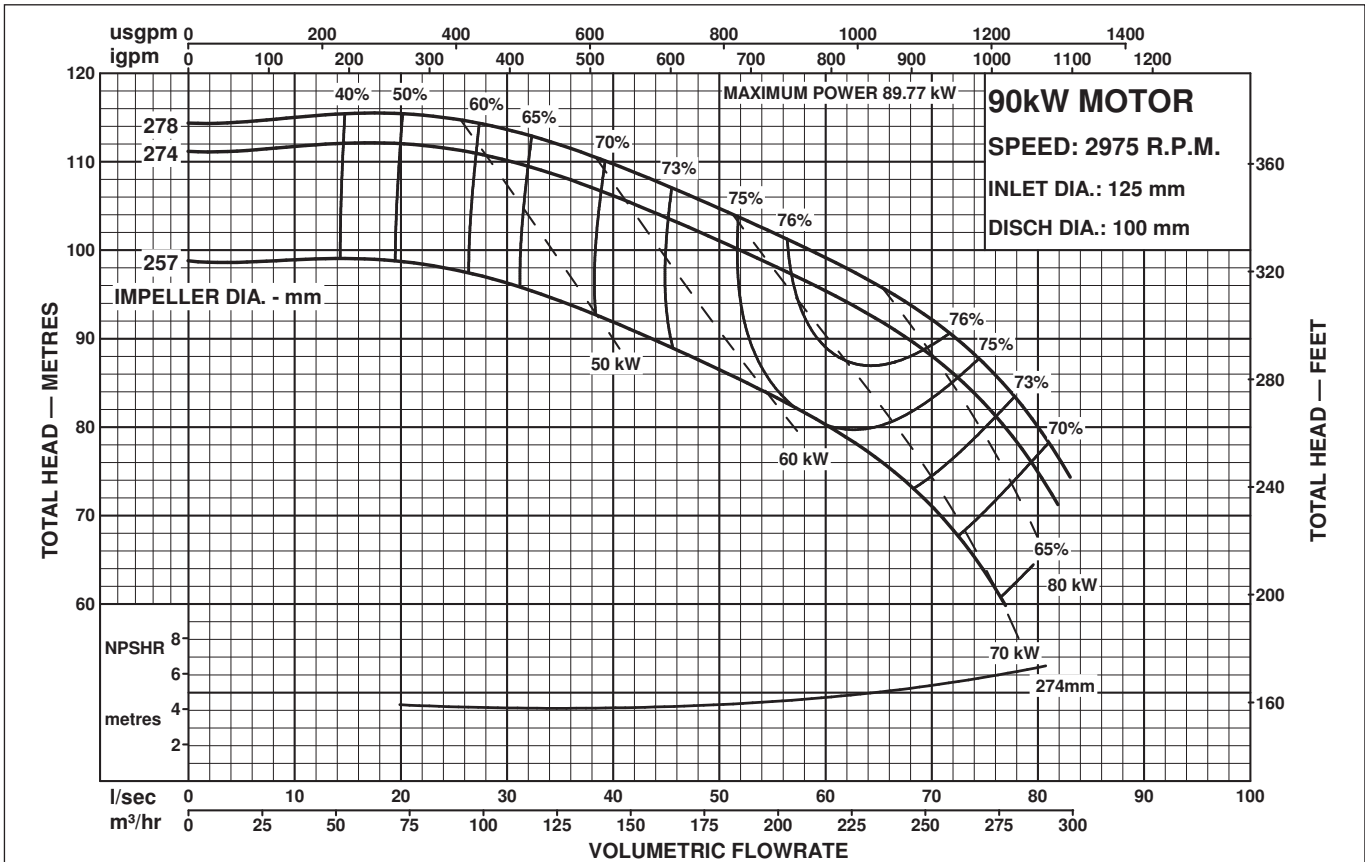
Performance to AS2417 Grade 2 for clean, cold water only.

May 2005

125 x 100-315



CENTRIFUGAL PUMP PERFORMANCE DATA



Performance to AS2417 Grade 2 for clean, cold water only.

May 2005

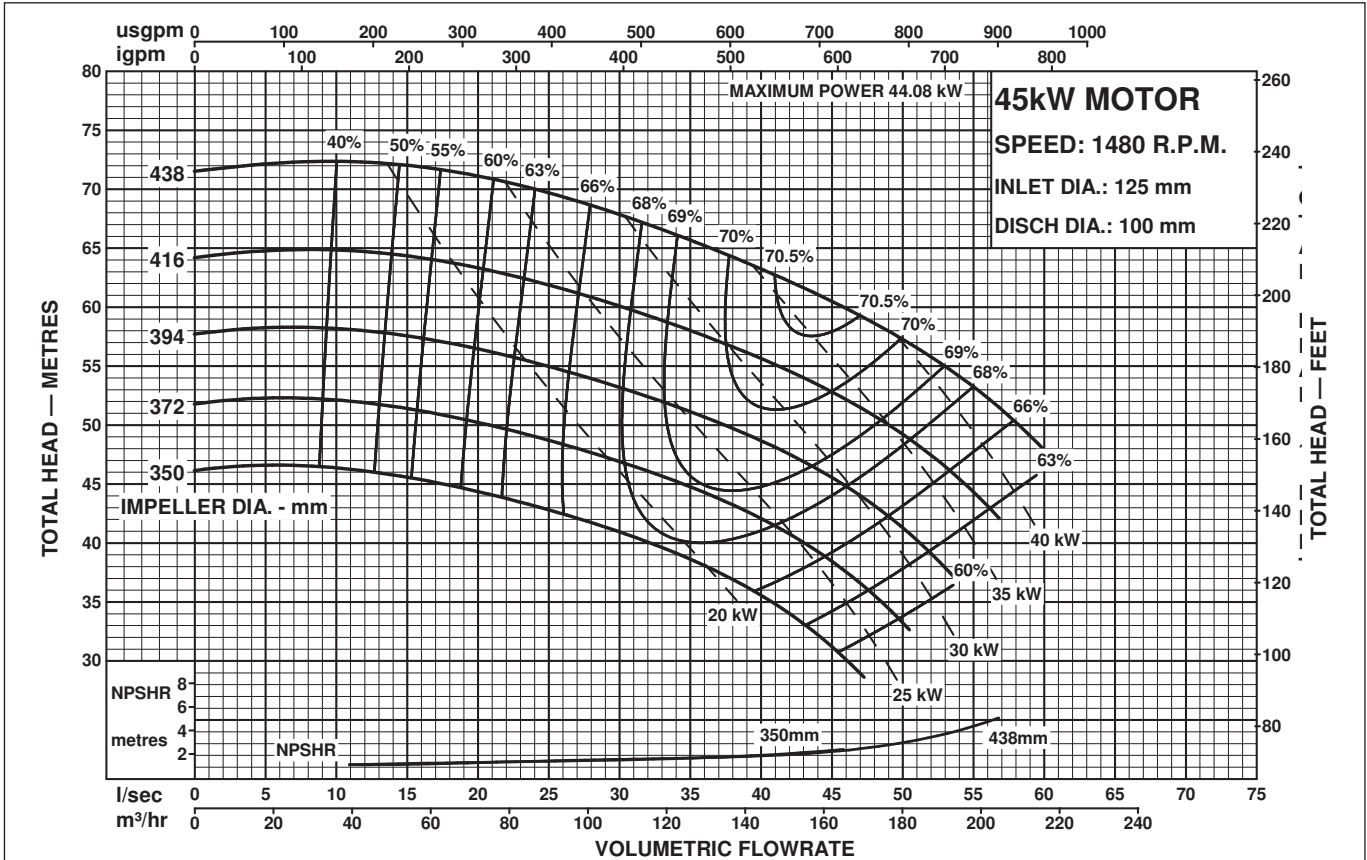
Performance to AS2417 Grade 2 for clean, cold water only.

May 2005



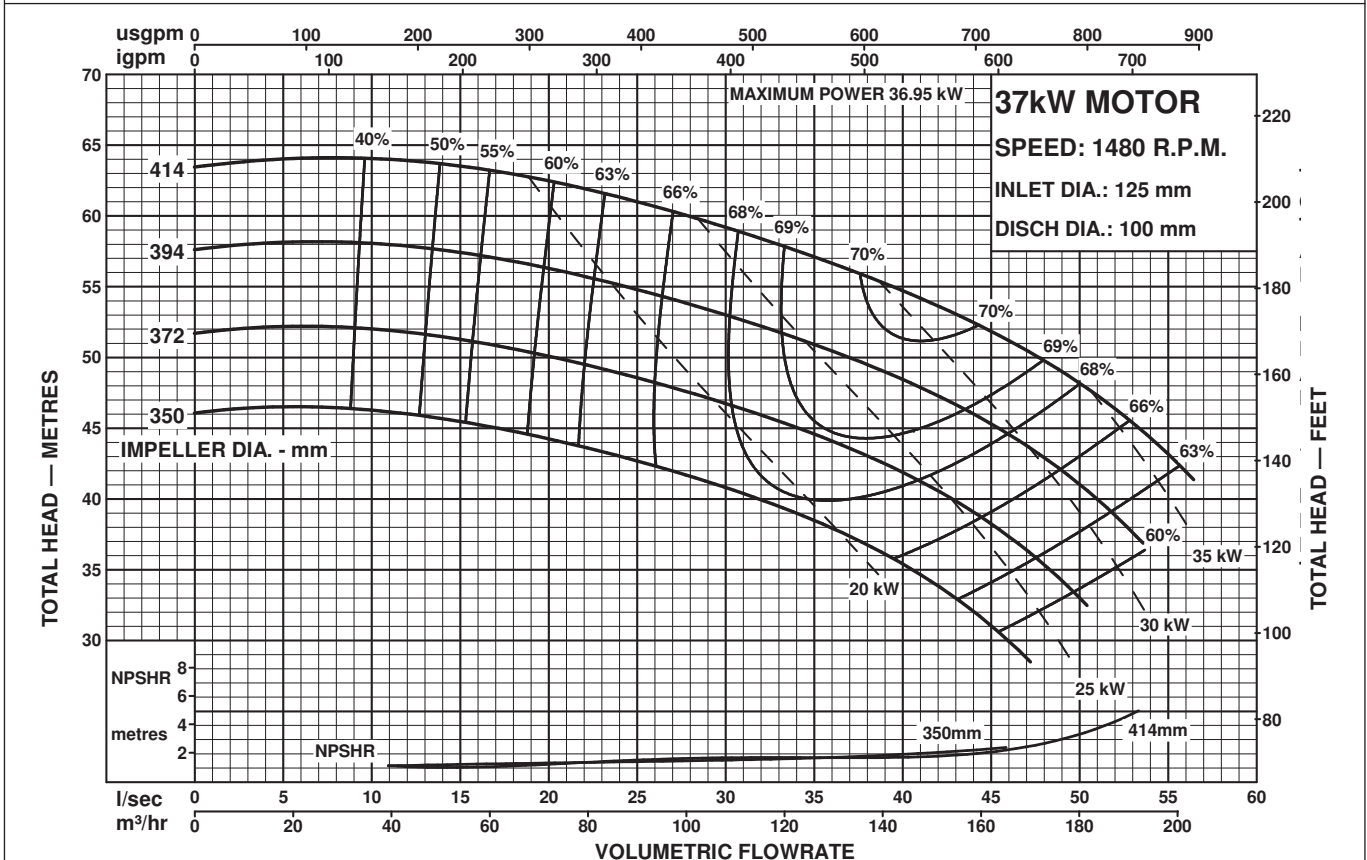
CENTRIFUGAL PUMP PERFORMANCE DATA

125 x 100-400



Performance to AS2417 Grade 2 for clean, cold water only.

May 2005



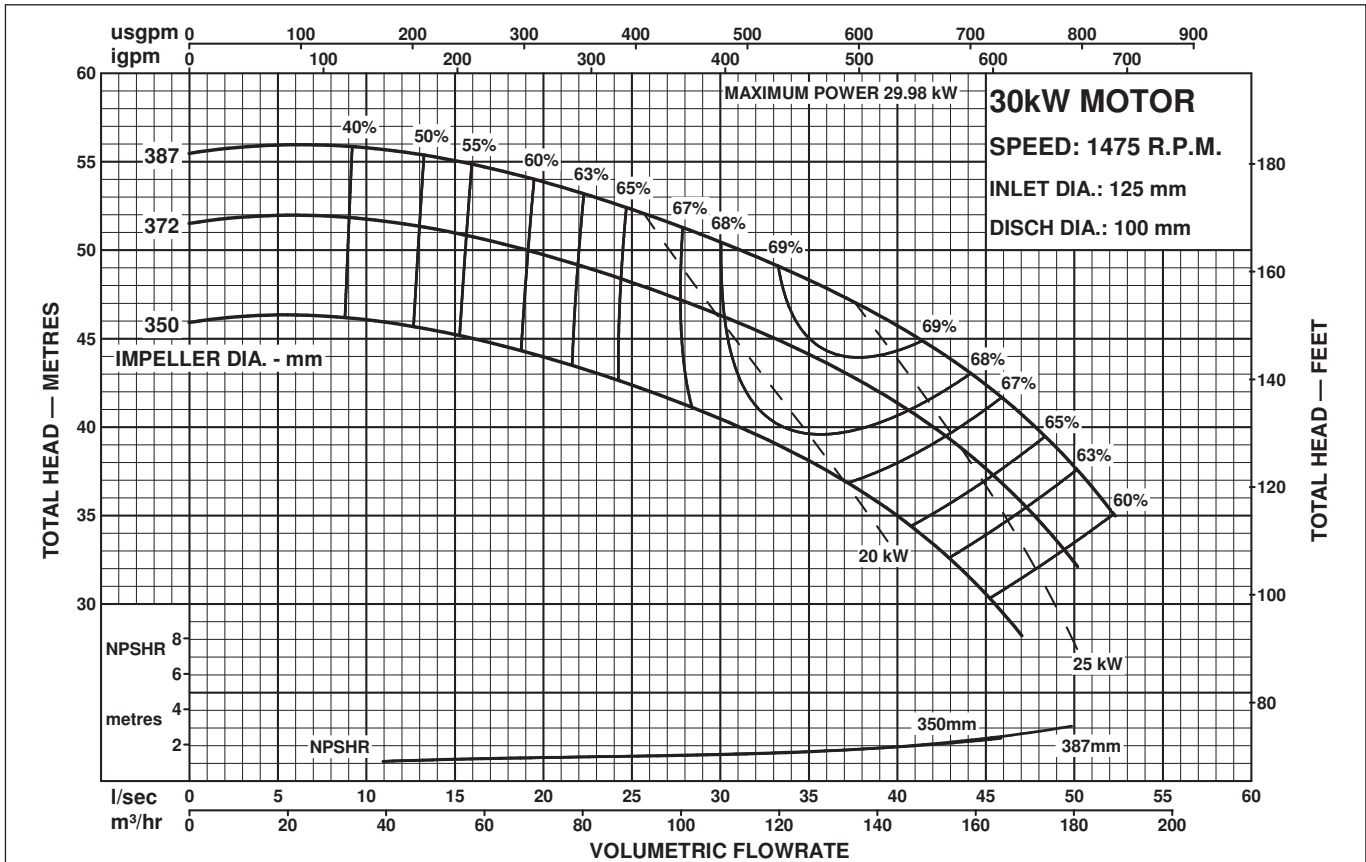
Performance to AS2417 Grade 2 for clean, cold water only.

May 2005

125 x 100-400

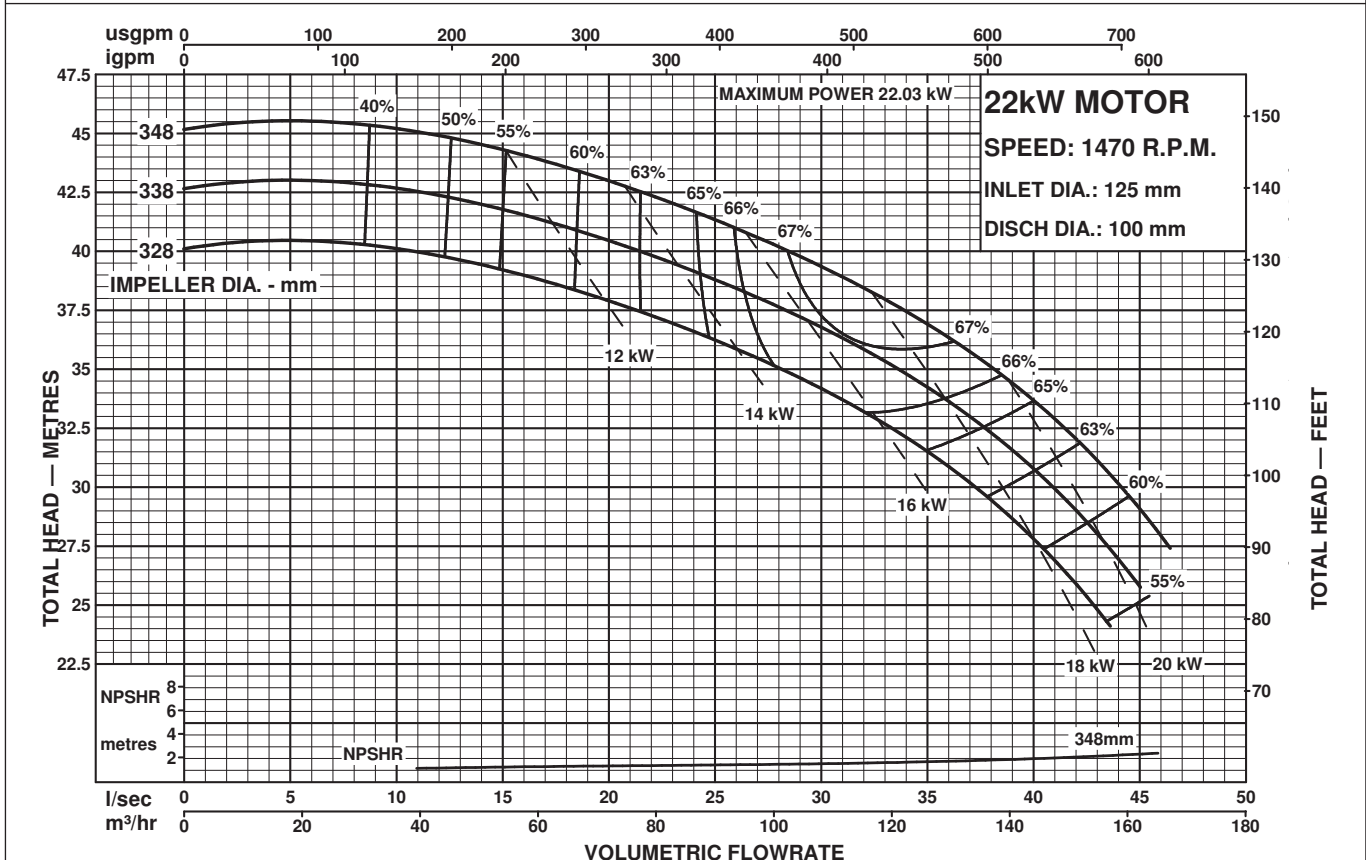


CENTRIFUGAL PUMP PERFORMANCE DATA



Performance to AS2417 Grade 2 for clean, cold water only.

May 2005

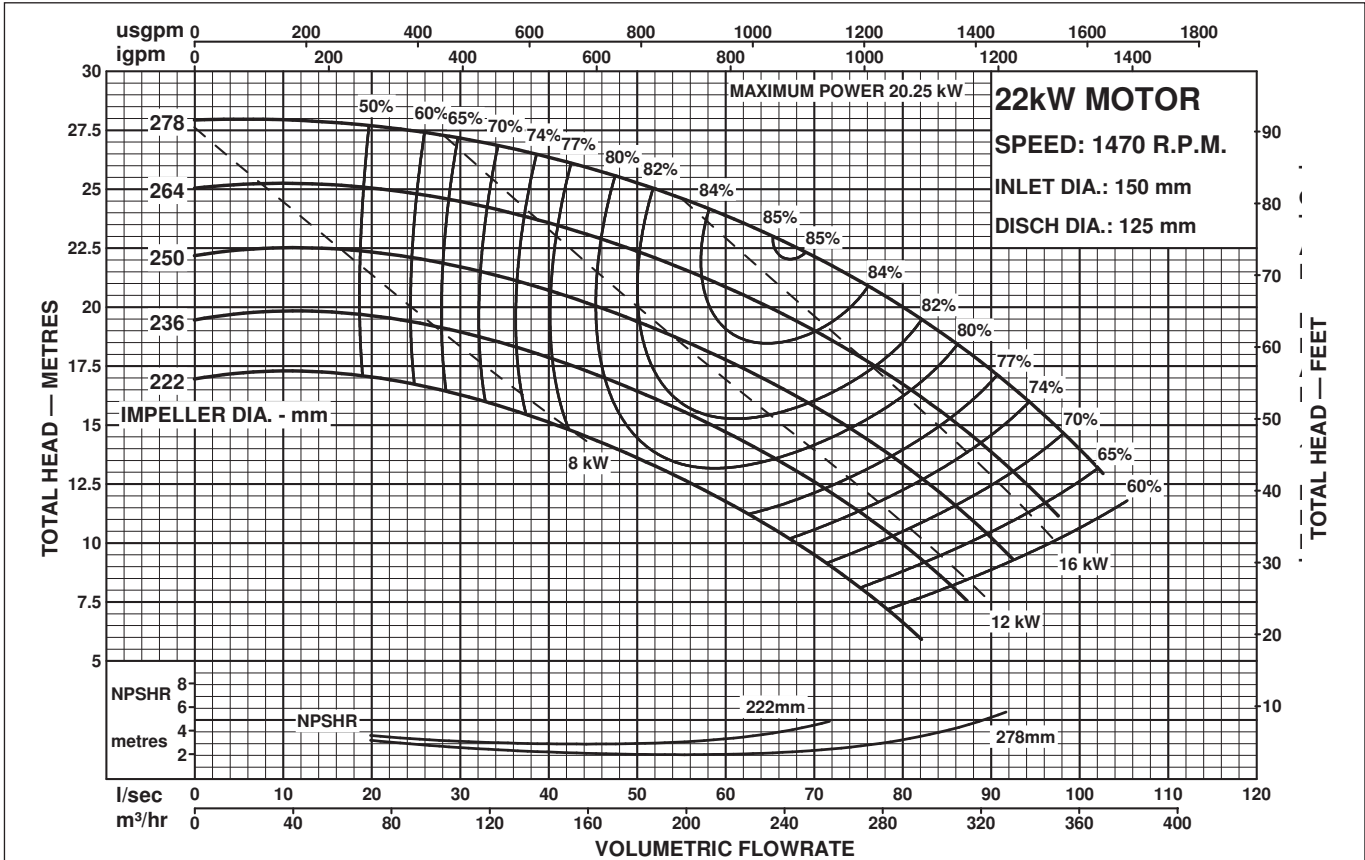
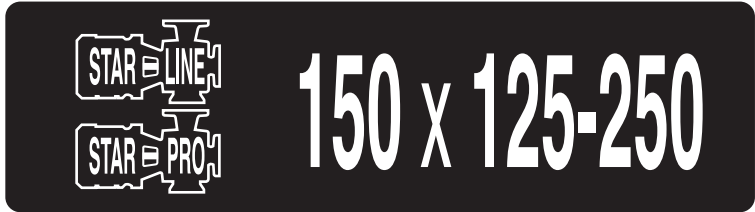


Performance to AS2417 Grade 2 for clean, cold water only.

May 2005

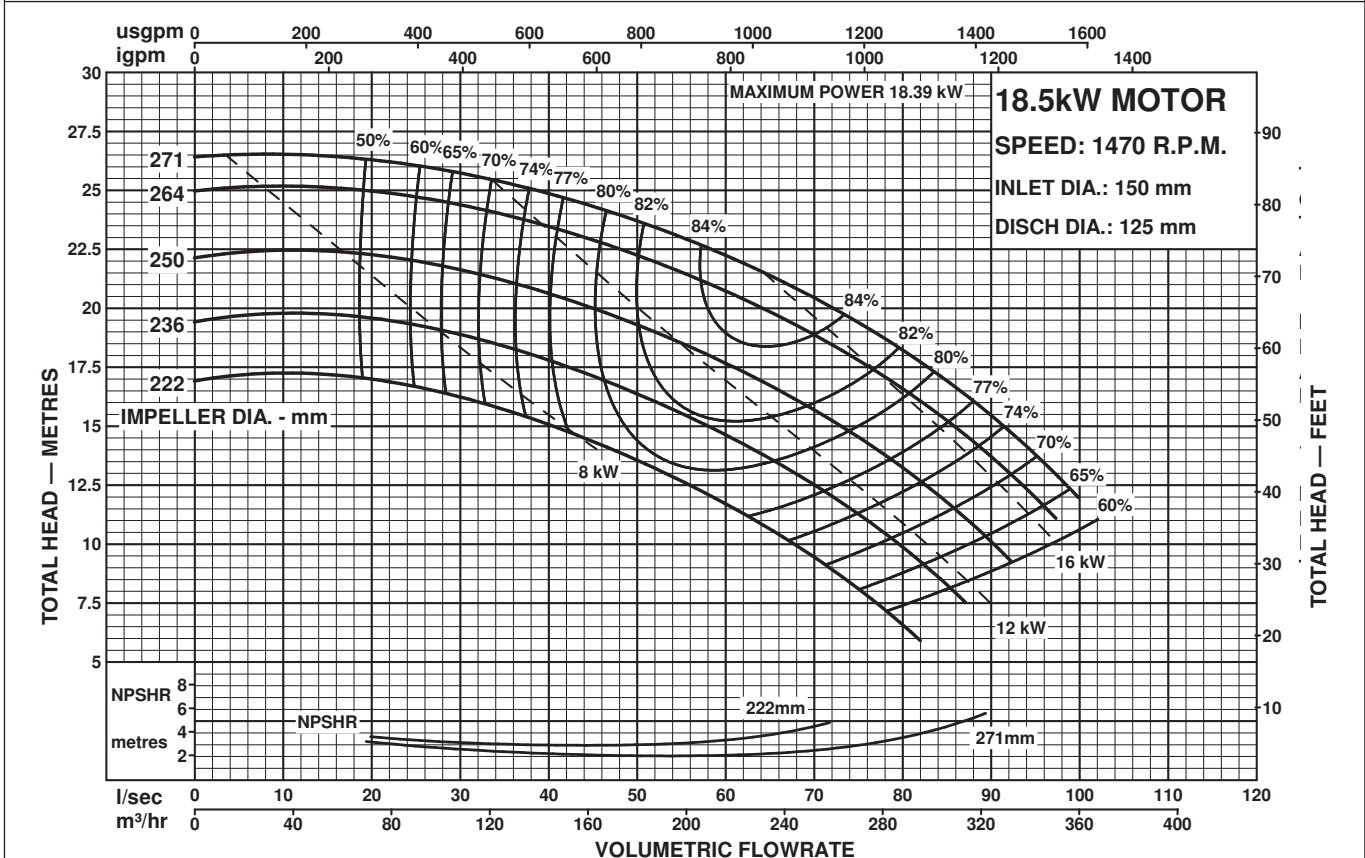


CENTRIFUGAL PUMP PERFORMANCE DATA



Performance to AS2417 Grade 2 for clean, cold water only.

May 2005



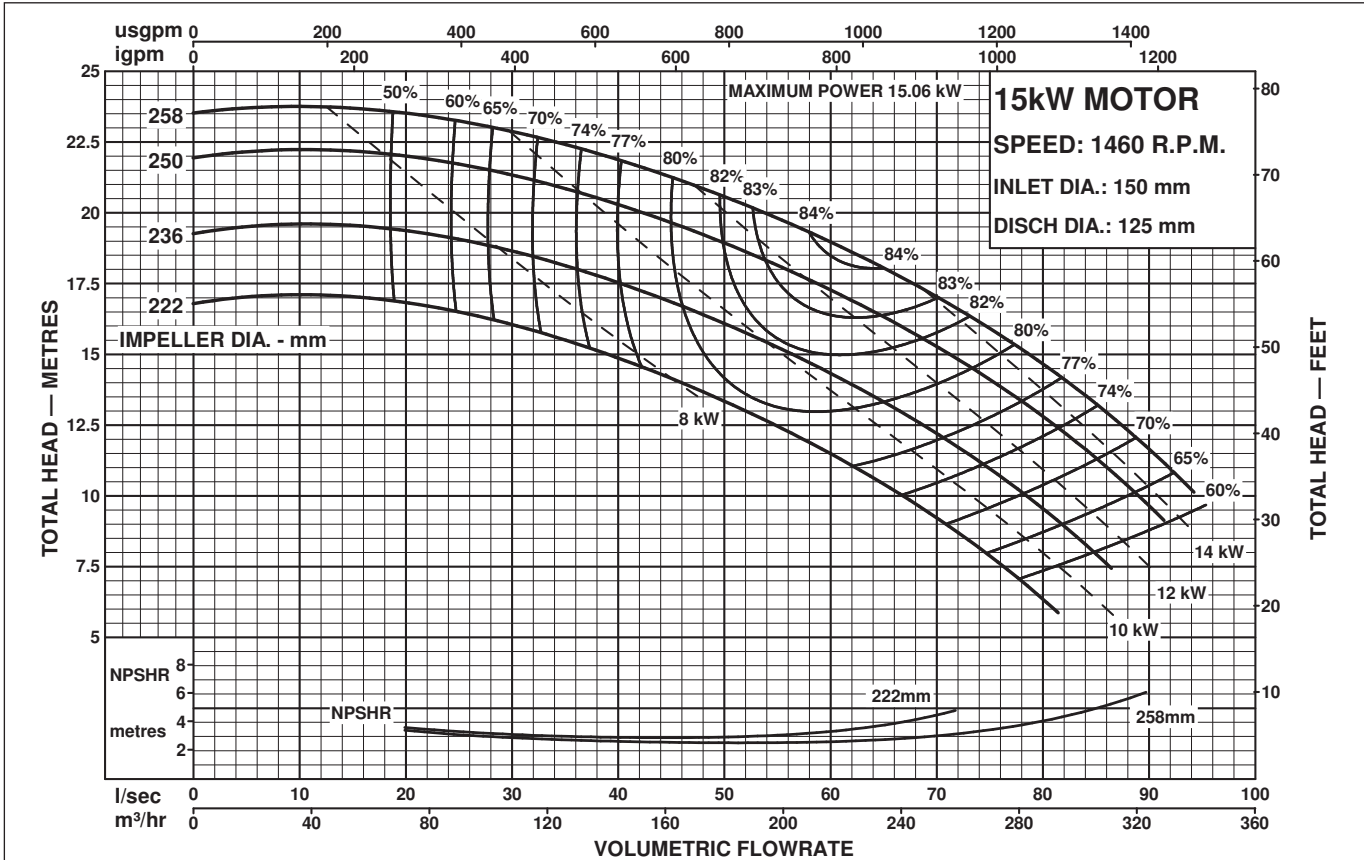
Performance to AS2417 Grade 2 for clean, cold water only.

May 2005

150 x 125-250

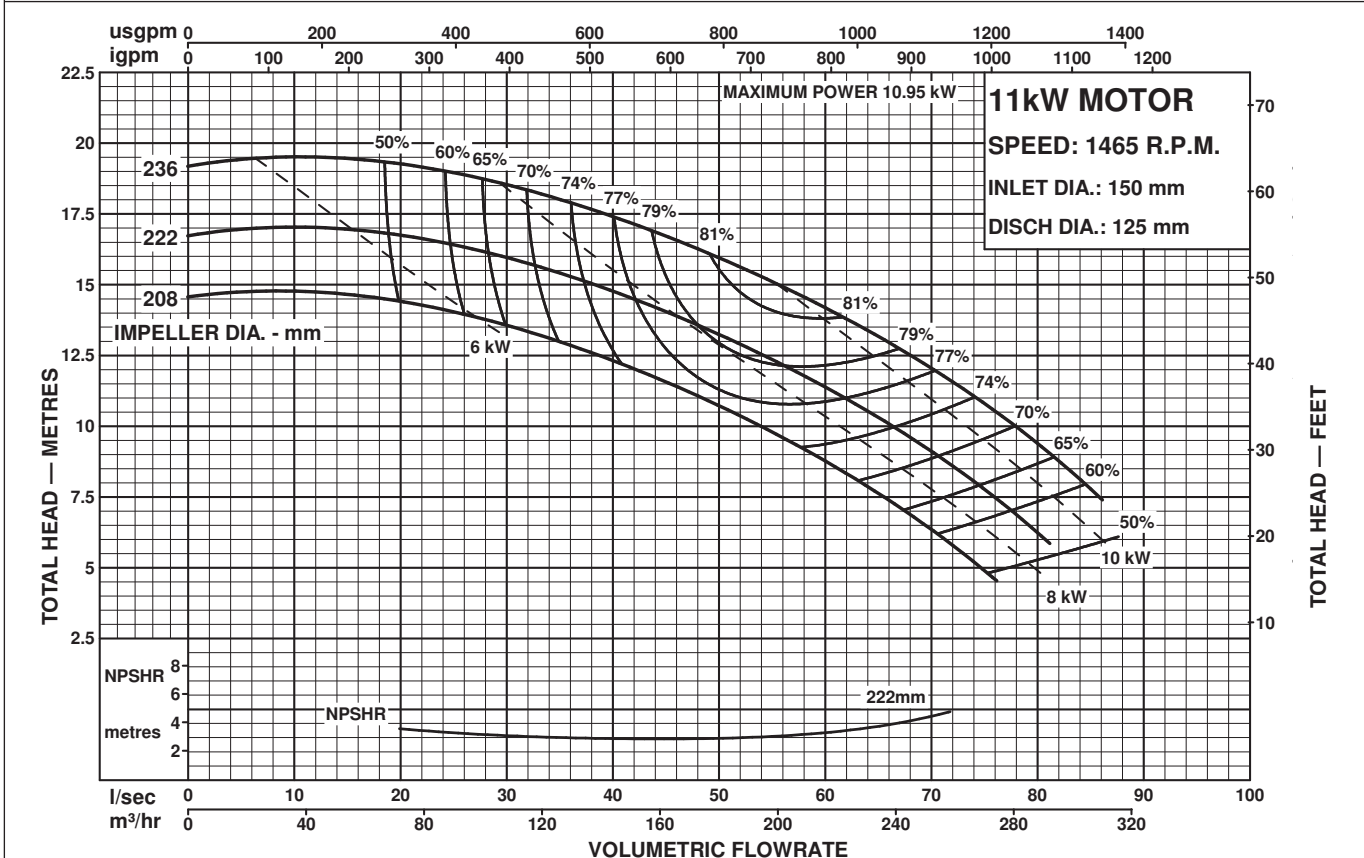


CENTRIFUGAL PUMP PERFORMANCE DATA



Performance to AS2417 Grade 2 for clean, cold water only.

May 2005



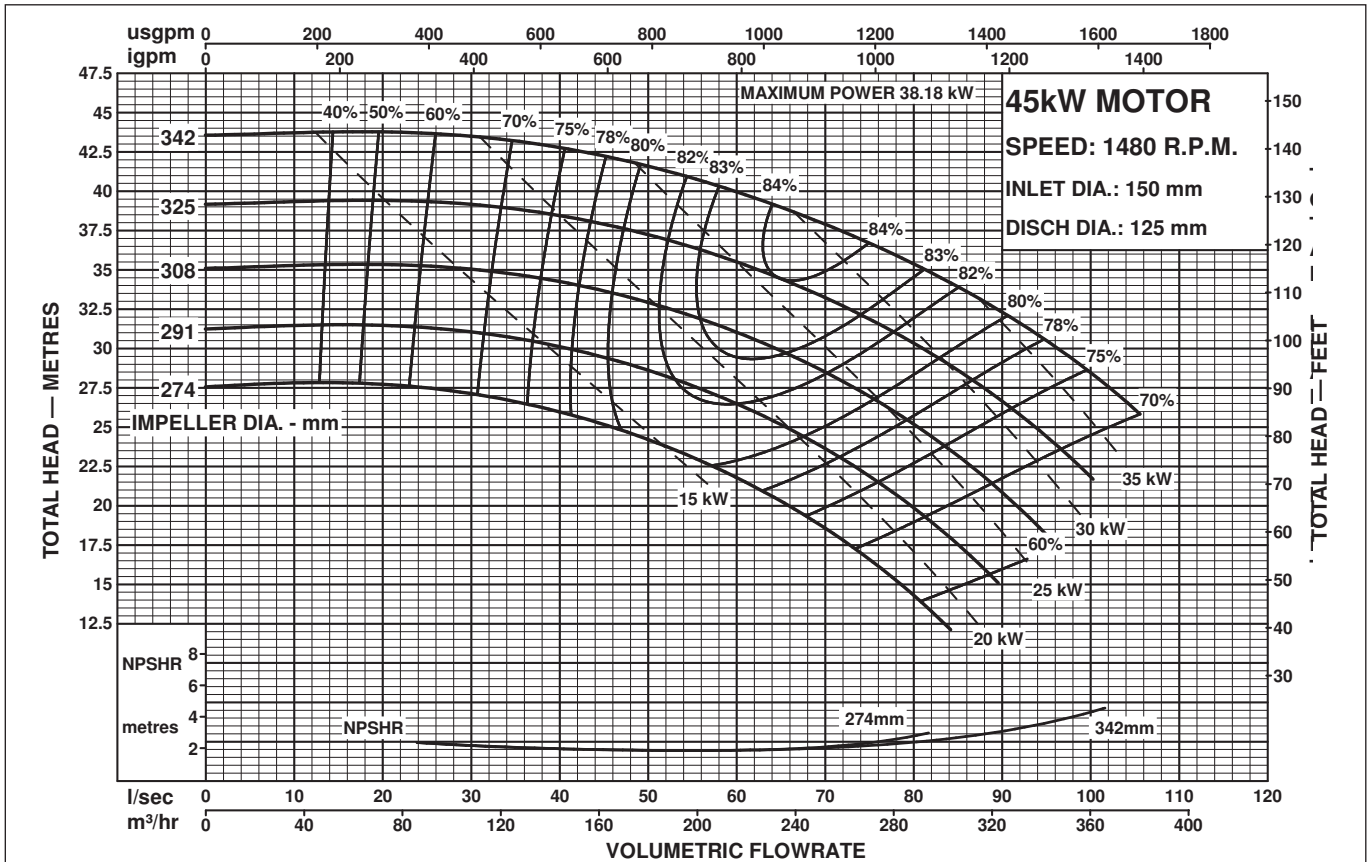
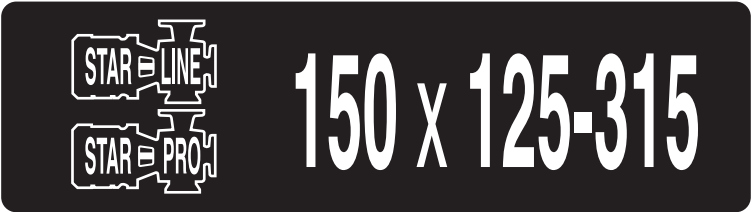
Performance to AS2417 Grade 2 for clean, cold water only.

May 2005

A division of **tyco** Flow Control Pacific Pty Ltd A.B.N. 83 000 922 690

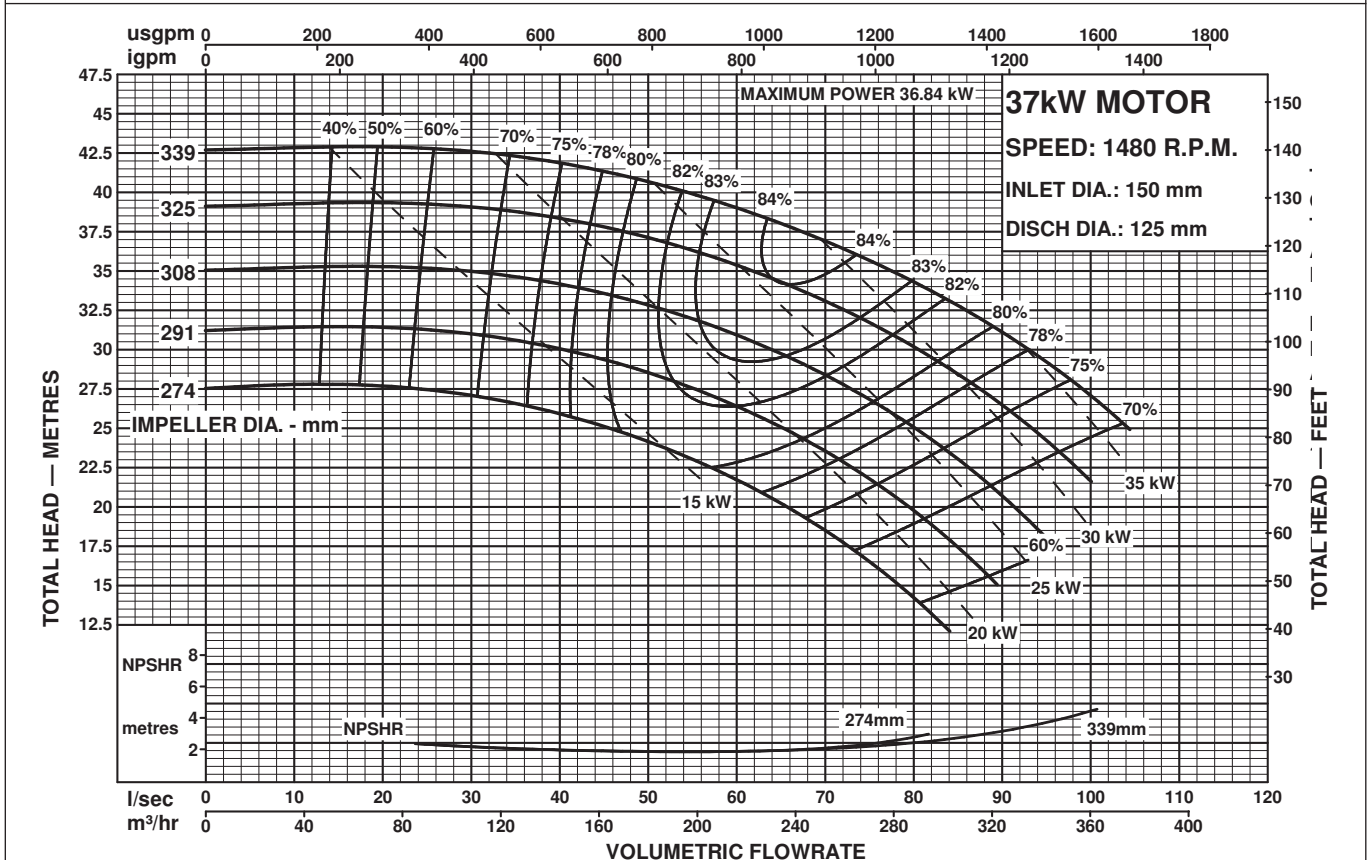


CENTRIFUGAL PUMP PERFORMANCE DATA



Performance to AS2417 Grade 2 for clean, cold water only.

May 2005



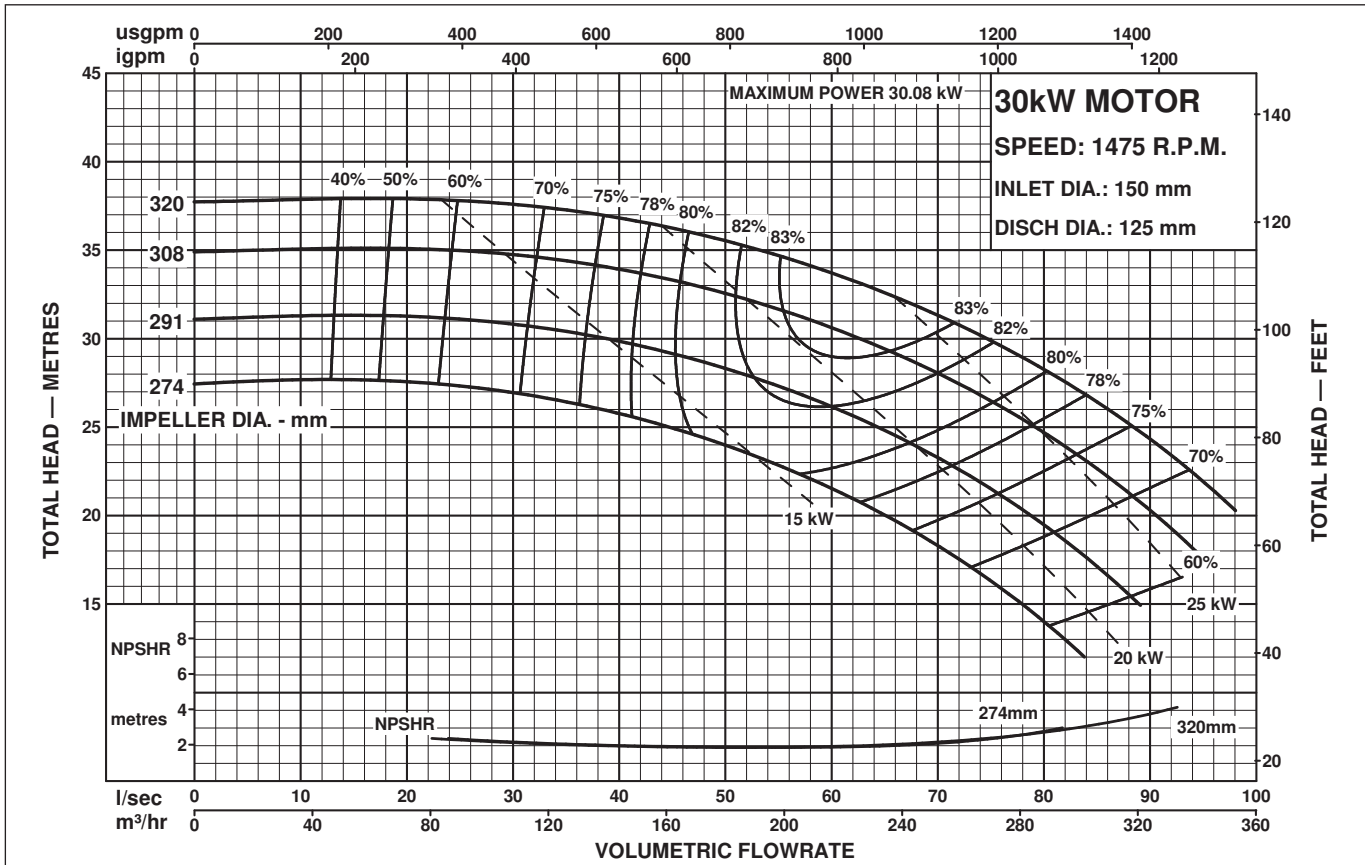
Performance to AS2417 Grade 2 for clean, cold water only.

May 2005

150 x 125-315

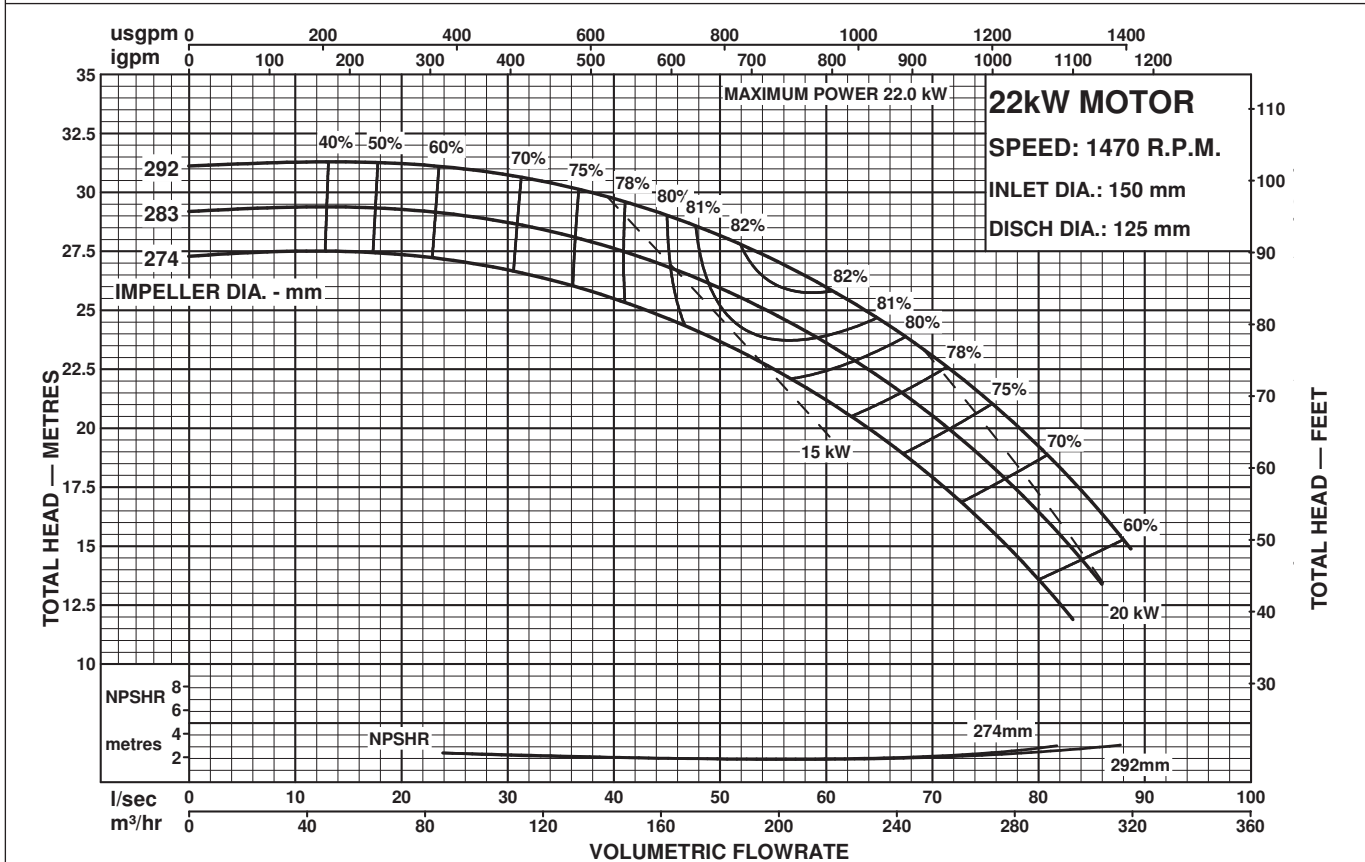


CENTRIFUGAL PUMP PERFORMANCE DATA



Performance to AS2417 Grade 2 for clean, cold water only.

May 2005



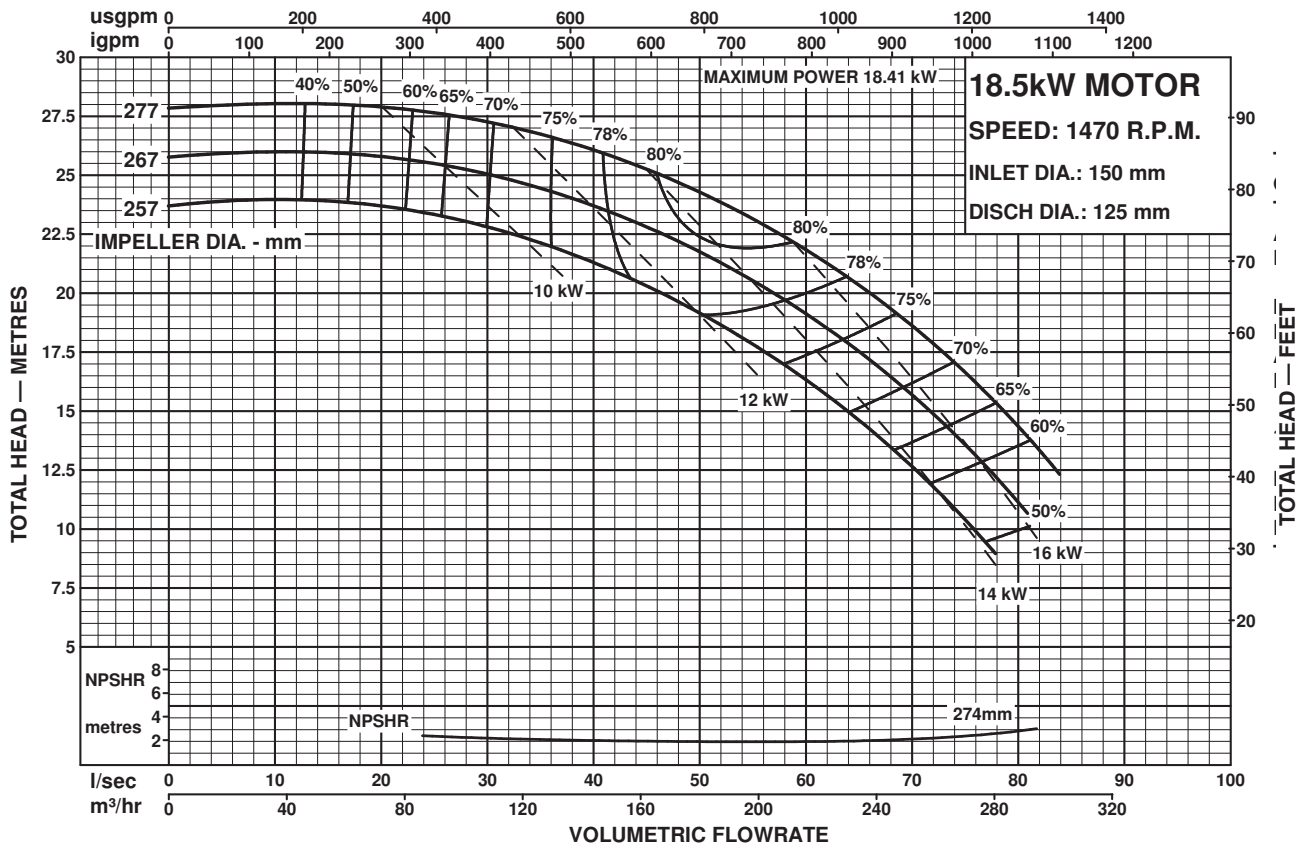
Performance to AS2417 Grade 2 for clean, cold water only.

May 2005



CENTRIFUGAL PUMP PERFORMANCE DATA

150 x 125-315



Performance to AS2417 Grade 2 for clean, cold water only.

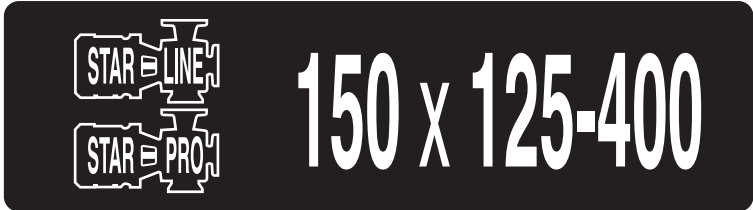
May 2005

Performance to AS2417 Grade 2 for clean, cold water only.

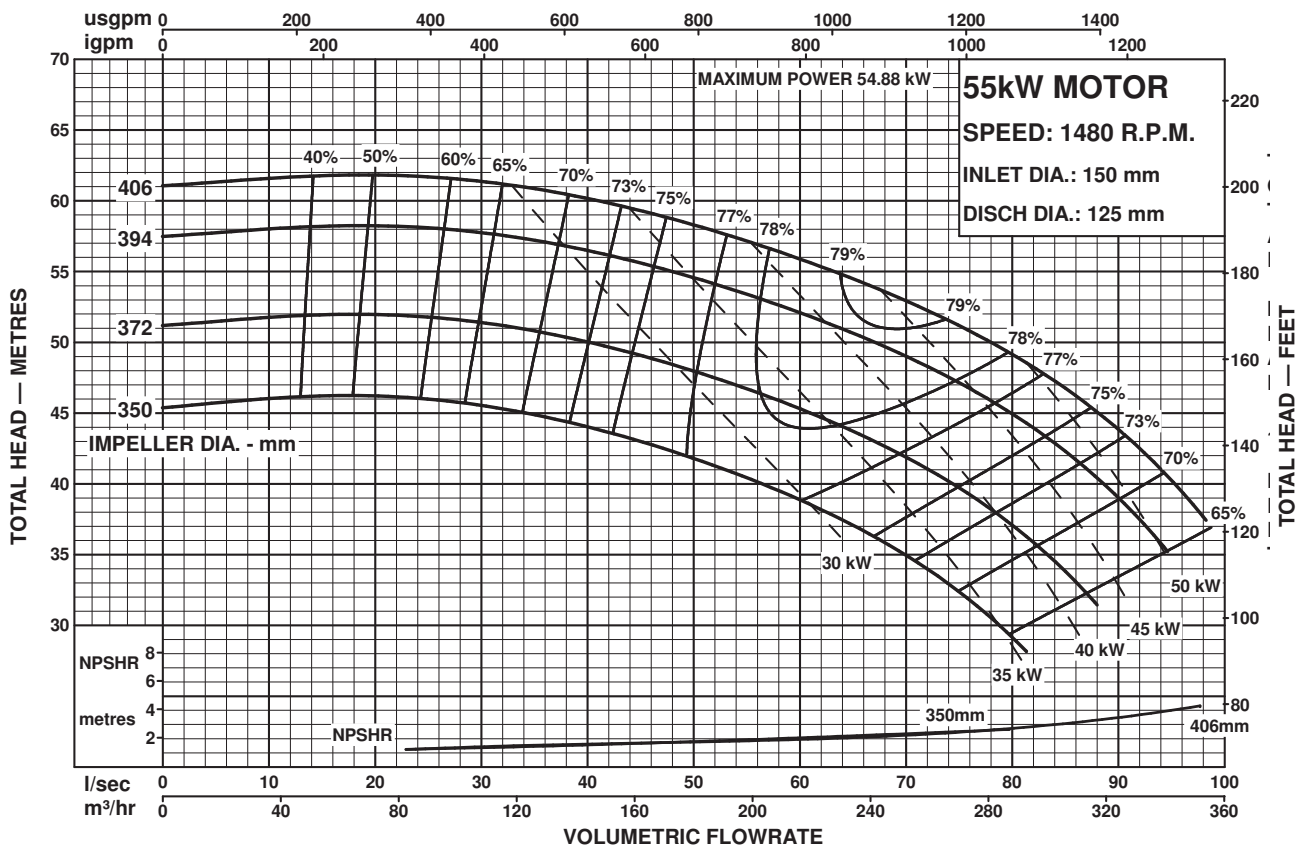
May 2005



CENTRIFUGAL PUMP PERFORMANCE DATA

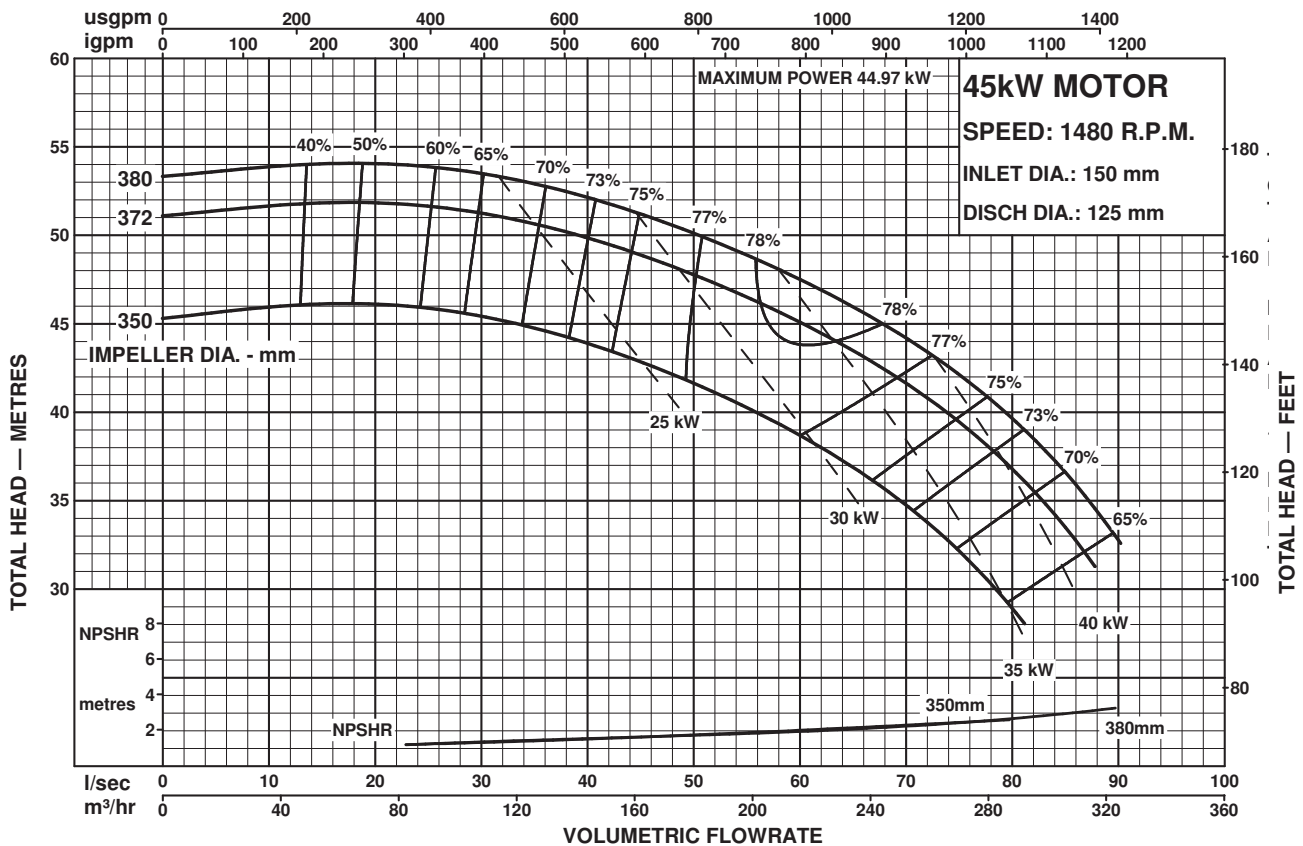


150 x 125-400



Performance to AS2417 Grade 2 for clean, cold water only.

May 2005



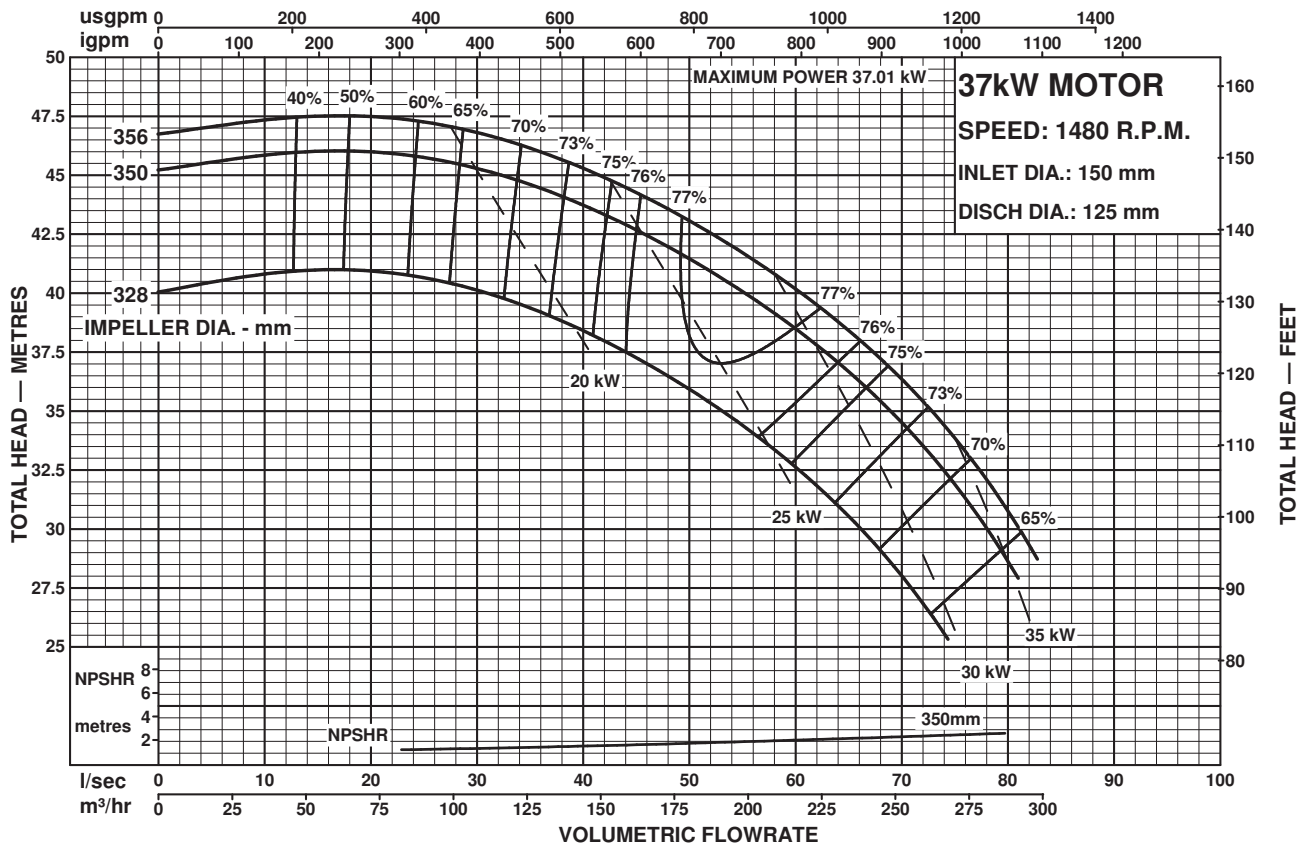
Performance to AS2417 Grade 2 for clean, cold water only.

May 2005

150 x 125-400



CENTRIFUGAL PUMP PERFORMANCE DATA

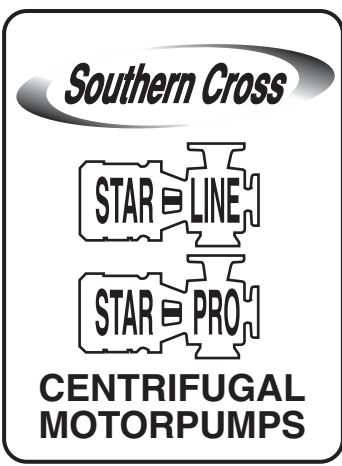
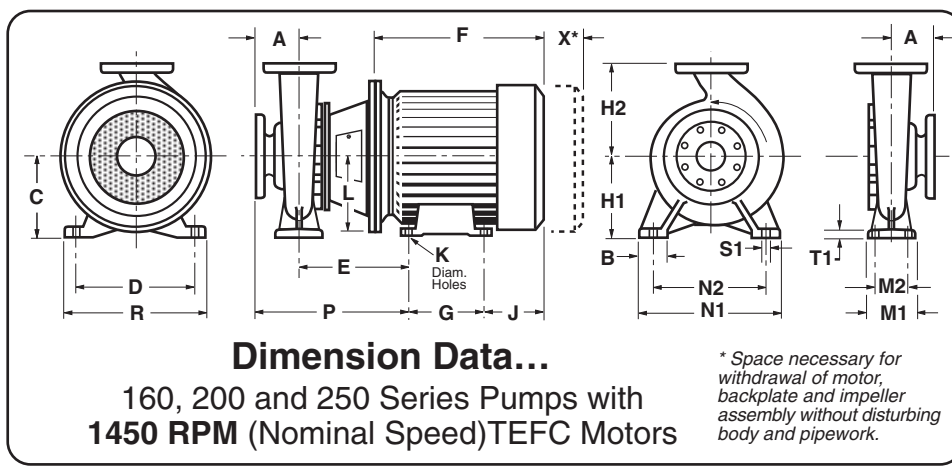


Performance to AS2417 Grade 2 for clean, cold water only.

May 2005

Performance to AS2417 Grade 2 for clean, cold water only.

May 2005



Dimension Data...

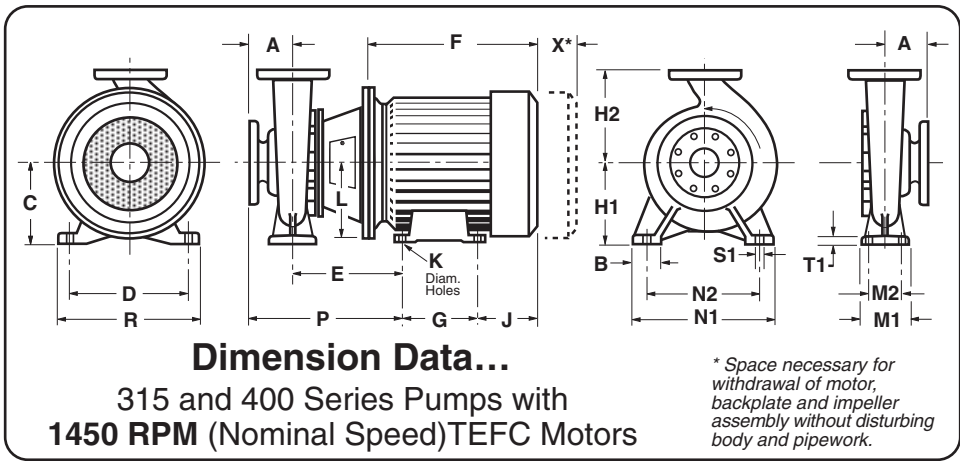
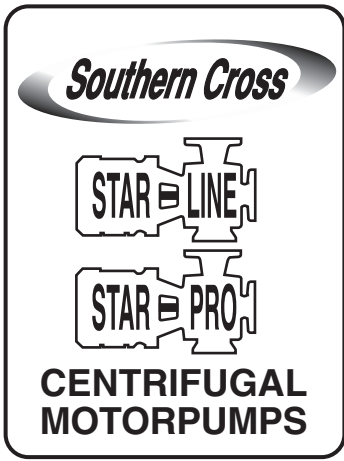
160, 200 and 250 Series Pumps with 1450 RPM (Nominal Speed) TEFC Motors

* Space necessary for withdrawal of motor, backplate and impeller assembly without disturbing body and pipework.

PUMP SIZE			SHAFT No.	MOTOR kW	FRAME SIZE	DIMENSIONS																								
INLET	OUTLET	IMP DIA				A	B	C	D	E	F	G	H1	H2	J	K	L	M1	M2	N1	N2	P	R	S1	T1	Gap X*	kg			
50	32	160	1	0.55	80	80	50	80	125	205	255	100	132	160	105	10	100			285	165	14	12	100	49					
				0.75	80			80	125	205	255	100			105	10	100					285	165				50			
65	50	160	1	0.55	80	80	50	80	125	205	255	100			105	10	100			285	165				50					
				0.75	80			80	125	205	255	100	132	160	105	10	100			100	70	240	190			14	12	100	51	
				1.1	90S			90	140	211	265	100			109	10	100					285	165						180	55
80	65	160	1	0.75	80	100	50	80	125	205	255	100			105	10	100			305	165				56					
				1.1	90S			90	140	211	265	100	160	180	109	10	100			100	70	265	212			14	13	100	60	
				1.5	90L			90	140	211	290	125			109	10	100					311	180						180	65
100	80	160	2	1.1	90S	100	65	90	140	215	265	100			109	10	100			315	180				70					
				1.5	90L			90	140	215	290	125	160	200	109	10	100			125	95	280	212			14	14	100	75	
				2.2	100L			100	160	229	325	140			122	12	125					329	205							82
				3	100L			100	160	229	325	140			122	12	125					329	205							86
50	32	200	1	0.75	80	80	50	80	125	205	255	100			105	10	100			285	165				57					
				1.1	90S			90	140	211	265	100	160	180	109	10	100			100	70	240	190			14	13	100	61	
				1.5	90L			90	140	211	290	125			109	10	100					291	180						180	66
65	40	200	1	1.1	90S	100	50	90	140	211	265	100			109	10	100			311	180				62					
				1.5	90L			90	140	211	290	125	160	180	109	10	100			100	70	265	212			14	13	100	67	
				2.2	100L			100	160	225	325	140			122	12	125					311	180						205	74
80	50	200	1	1.5	90L	100	50	90	140	211	290	125			109	10	100			311	180				73					
				2.2	100L			100	160	225	325	140	160	200	122	12	125			100	70	265	212			14	13	100	80	
				3	100L			100	160	225	325	140			122	12	125					325	205							84
100	65	200	2	2.2	100L	100	65	100	160	229	325	140			122	12	125			329	205				88					
				3	100L			100	160	229	325	140	180	225	122	12	125			125	95	320	250			14	15	140	92	
				4	112M			112	190	236	340	140			130	12	125					336	230							97
				5.5	132S			132	216	275	390	140			161	12	150					375	270							124
125	80	200	2	3	100L	125	65	100	160	228	325	140			122	12	125			353	205				100					
				4	112M			112	190	235	340	140	180	250	130	12	125			125	95	345	280			14	16	140	105	
				5.5	132S			132	216	274	390	140			161	12	150					399	270							132
				7.5	132M			132	216	274	430	178			163	12	150					399	270							145
125	100	200	2	4	112M	125	80	112	190	236	340	140			130	12	125			361	230				111					
				5.5	132S			132	216	275	390	140	200	280	161	12	150			160	120	360	280			18	17	140	138	
				7.5	132M			132	216	275	430	178			163	12	150					400	270							151
65	40	250	2	1.5	90L	100	65	90	140	215	290	125			109	10	100			315	180				84					
				2.2	100L			100	160	229	325	140	180	225	122	12	125			125	95	320	250			14	14	100	91	
				3	100L			100	160	229	325	140			122	12	125					329	205							95
80	50	250	2	3	100L	125	65	100	160	229	325	140			122	12	125			354	205				94					
				4	112M			112	190	236	340	140	180	225	130	12	125			125	95	320	250			14	15	100	99	
				5.5	132S			132	216	275	390	140			161	12	150					400	270							126
100	65	250	2	4	112M	125	80	112	190	236	340	140			130	12	125			361	230				108					
				5.5	132S			132	216	275	390	140	200	250	161	12	150			160	120	360	280			18	16	140	135	
				7.5	132M			132	216	275	430	178			163	12	150					400	270							148
125	80	250	2	5.5	132S	125	80	132	216	274	390	140			161	12	150			399	270				146					
				7.5	132M			132	216	274	430	178	225	280	163	12	150			160	120	400	315			18	18	140	159	
				11	160M			160	254	329	505	210			187	15	175					454	320							206
125	100	250	3	7.5	132M	140	80	132	216	295	430	178			163	12	150			435	270				177					
				11	160M			160	254	349	505	210	225	280	187	15	175			160	120	400	315			18	18	140	223	
				15	160L			160	254	349	560	254			198	15	175					489	320							244
150	125	250	3	11	160M	140	80	160	254	349	505	210			187	15	175			489	320				241					
				15	160L			160	254	349	560	254	250	355	198	15	175			160	120	400	315			18	19	140	262	
				18.5	180M			180	279	362	575	241			213	15	175					502	355							300
				22	180L			180	279	362	615	279			215	15	175					502	355							308

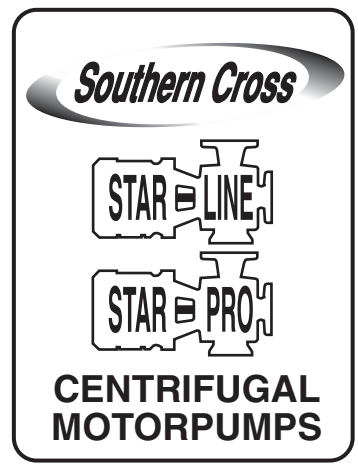
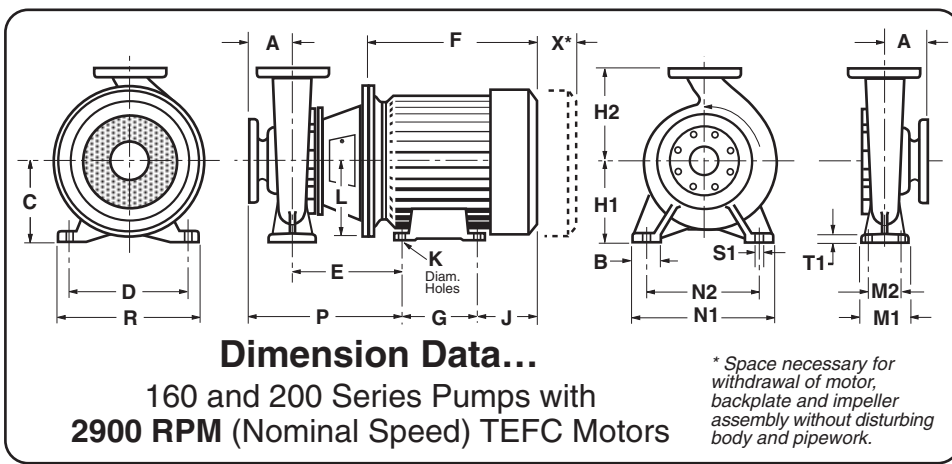
Pump Flanged Connections to A.S. 2129 — Table E

MAY 2005



PUMP SIZE			SHAFT No.	MOTOR kW	FRAME SIZE	DIMENSIONS																				Gap	kg
INLET	OUTLET	IMP DIA				A	B	C	D	E	F	G	H1	H2	J	K	L	M1	M2	N1	N2	P	R	S1	T1		
65	40	315	2	3	100L			100	160	229	325	140			122	12	125				354	205				102	
				4	112M	125	65	112	190	236	340	140			130	12	125	125	95	345	280	361	230	14	16	100	107
				5.5	132S			132	216	275	390	140			161	12	150					400	270				134
80	50	315	2	4	112M			112	190	236	340	140			130	12	125				361	230				111	
				5.5	132S	125	65	132	216	275	390	140	225	280	161	12	150	125	95	345	280	400	270	14	18	100	138
				7.5	132M			132	216	275	430	178			163	12	150					400	270				151
100	65	315	3	7.5	132M			132	216	294	430	178			163	12	150				419	270				178	
				11	160M	125	80	160	254	349	505	210	225	280	187	15	175	160	120	400	315	474	320	18	18	140	224
				15	160L			160	254	349	560	254			198	15	175					474	320				245
125	80	315	3	11	160M			160	254	349	505	210			187	15	175				474	320				233	
				15	160L	125	80	160	254	349	560	254	250	315	198	15	175	160	120	400	315	474	320	18	20	140	254
				18.5	180M			180	279	362	575	241			213	15	175					487	355				292
125	100	315	3	11	160M			160	254	349	505	210			187	15	175				489	320				242	
				15	160L	140	80	160	254	349	560	254	250	315	198	15	175	160	120	400	315	489	320	18	19	140	263
				18.5	180M			180	279	362	575	241			213	15	175					502	355				301
				22	180L			180	279	362	615	279			215	15	175					502	355				309
150	125	315	3	18.5	180M			180	279	362	575	241			213	15	175				502	355				319	
				22	180L			180	279	362	615	279			215	15	175					502	355				327
				30	200L	140	100	200	318	374	643	305	280	355	205	19	200	200	150	500	400	514	395	22	20	140	410
				37	225S			225	356	420	660	286			225	19	225					560	435				429
				45	225M			225	356	420	685	311			225	19	225					560	435				465
125	80	400	3	15	160L			160	254	349	560	254			198	15	175				474	320				292	
				18.5	180M	125	80	180	279	362	575	241	280	355	213	15	175	160	120	435	355	487	355	18	20	140	330
				22	180L			180	279	362	615	279			215	15	175					487	355				338
				30	200L			200	318	374	643	305			205	19	200					499	395				421
125	100	400	3	22	180L			180	279	362	615	279			215	15	175				502	355				347	
				30	200L	140	100	200	318	374	643	305	280	355	205	19	200	200	150	500	400	514	395	22	20	140	430
				37	225S			225	356	420	660	286			225	19	225					560	435				449
				45	225M			225	356	420	685	311			225	19	225					560	435				485
150	125	400	3	37	225S			225	356	420	660	286			225	19	225				560	435				463	
				45	225M	140	100	225	356	420	685	311	315	400	225	19	225	200	150	500	400	560	435	22	21	140	499
				55	250M			250	406	418	748	349			231	24	275					558	490				613

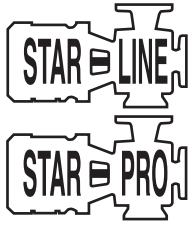
Pump Flanged Connections to A.S. 2129 — Table E



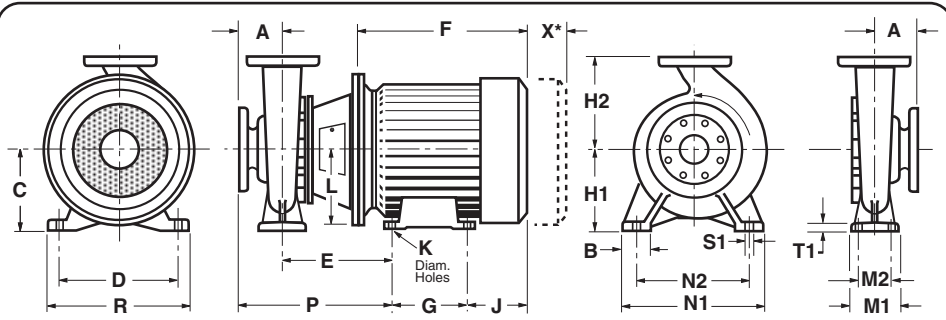
PUMP SIZE			SHAFT No.	MOTOR kW	FRAME SIZE	DIMENSIONS																					
INLET	OUTLET	IMP DIA				A	B	C	D	E	F	G	H1	H2	J	K	L	M1	M2	N1	N2	P	R	S1	T1	Gap	X*
50	32	160	1	2.2	90L			90	140	205	290	125			109	10	100			285	180					57	
				3	100L			100	160	225	325	140			122	12	125			305	205						65
				4	112M	80	50	112	190	232	340	140	132	160	130	12	125	100	70	240	190	312	230	14	12	100	77
				5.5	132S			132	216	271	390	140			161	12	150					351	270				
65	50	160	1	4	112M			112	190	232	340	140			130	12	125			312	230					78	
				5.5	132S	80	50	132	216	271	390	140	132	160	161	12	150	100	70	240	190	351	270	14	12	100	99
				7.5	132S			132	216	271	390	140			161	12	150				351	270					105
80	65	160	1	5.5	132S			132	216	271	390	140			161	12	150			371	270					104	
				7.5	132S	100	50	132	216	271	390	140	160	180	161	12	150	100	70	265	212	371	270	14	13	100	110
				11	160M			160	254	325	505	210			187	15	175				425	320					162
				15	160M			160	254	325	505	210			187	15	175				425	320					170
100	80	160	2	11	160M			160	254	329	505	210			187	15	175			429	320					172	
				15	160M	100	65	160	254	329	505	210	160	200	187	15	175	125	95	280	212	429	320	14	14	100	180
				18.5	160L			160	254	329	560	254			198	15	175				429	320					202
50	32	200	1	5.5	132S			132	216	271	390	140			161	12	150			351	270					105	
				7.5	132S	80	50	132	216	271	390	140	160	180	161	12	150	100	70	240	190	351	270	14	13	100	111
				11	160M			160	254	326	505	210			187	15	175				406	320					163
65	40	200	1	7.5	132S			132	216	271	390	140			161	12	150			371	270					112	
				11	160M	100	50	160	254	326	505	210	160	180	187	15	175	100	70	265	212	426	320	14	13	100	164
				15	160M			160	254	326	505	210			187	15	175				426	320					172
80	50	200	1	11	160M			160	254	326	505	210			187	15	175			426	320					170	
				15	160M	100	50	160	254	326	505	210	160	200	187	15	175	100	70	265	212	426	320	14	13	100	178
				18.5	160L			160	254	326	560	254			198	15	175				426	320					200
				22	180M			180	279	339	575	241			213	15	175				439	355					233
100	65	200	2	18.5	160L			160	254	329	560	254			198	15	175			429	320					208	
				22	180M	100	65	180	279	342	575	241	180	225	213	15	175	125	95	320	250	442	355	14	15	140	241
				30	200L			200	318	354	643	305			205	19	200				454	395					304
				37	200L			200	318	354	643	305			205	19	200				454	395					319
125	80	200	2	22	180M			180	279	342	575	241			213	15	175			467	355					249	
				30	200L	125	65	200	318	354	643	305	180	250	205	19	200	125	95	345	280	479	395	14	16	140	312
				37	200L			200	318	354	643	305			205	19	200				479	395					327
				45	225M			225	356	370	685	311			225	19	225				495	435					384
125	100	200	2	30	200L			200	318	354	643	305			205	19	200			479	395					318	
				37	200L	125	80	200	318	354	643	305			205	19	200				479	395					333
				45	225M			225	356	370	685	311	200	280	225	19	225	160	120	360	280	495	435	18	17	140	390
				55	250M			250	406	419	748	349			231	24	275				544	490					501
				75	280S			280	457	441	823	368			265	24	275				566	550					642

Pump Flanged Connections to A.S. 2129 — Table E

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CENTRIFUGAL MOTORPUMPS



Dimension Data...

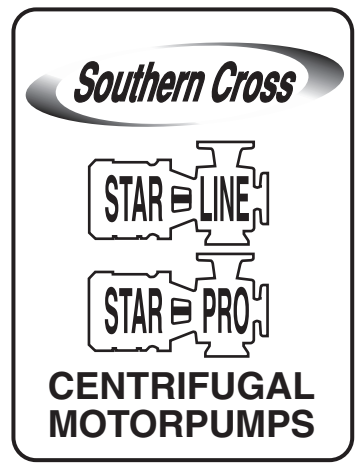
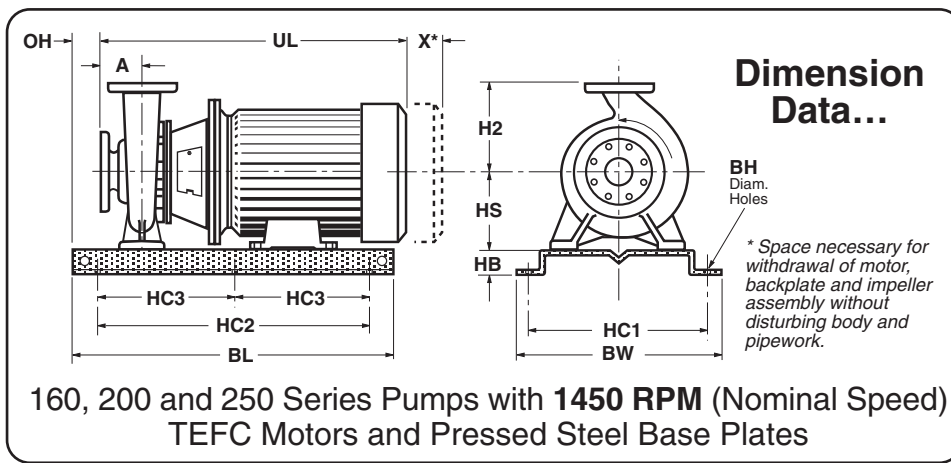
250 and 315 Series Pumps with 2900 RPM (Nominal Speed) TEFC Motors

* Space necessary for withdrawal of motor, backplate and impeller assembly without disturbing body and pipework.

PUMP SIZE			SHAFT No.	MOTOR kW	FRAME SIZE	DIMENSIONS																						
INLET	OUTLET	IMP DIA				A	B	C	D	E	F	G	H1	H2	J	K	L	M1	M2	N1	N2	P	R	S1	T1	Gap X*	kg	
65	40	250	2	11	160M			160	254	329	505	210			187	15	175			429	320				181			
				15	160M			160	254	329	505	210			187	15	175			429	320					189		
				18.5	160L	100	65	160	254	329	560	254	180	225	198	15	175	125	95	320	250	429	320	14	14	100	211	
				22	180M			180	279	342	575	241			213	15	175			442	355							244
				30	200L			200	318	354	643	305			205	19	200			454	395							307
80	50	250	2	22	180M			180	279	342	575	241			213	15	175			467	355				243			
				30	200L	125	65	200	318	354	643	305	180	225	205	19	200	125	95	320	250	479	395	14	15	100	306	
				37	200L			200	318	354	643	305			205	19	200			479	395							321
				45	225M			225	356	370	685	311			225	19	225			495	435							378
100	65	250	2	30	200L			200	318	354	643	305			205	19	200			479	395				315			
				37	200L			200	318	354	643	305			205	19	200			479	395						330	
				45	225M	125	80	225	356	370	685	311	200	250	225	19	225	160	120	360	280	495	435	18	16	140	387	
				55	250M			250	406	419	748	349			231	24	275			544	490							498
				75	280S			280	457	441	823	368			265	24	275			566	550							639
125	80	250	2	45	225M			225	356	370	685	311			225	19	225			495	435				398			
				55	250M	125	80	250	406	419	748	349	225	280	231	24	275	160	120	400	315	544	490	18	18	140	509	
				75	280S			280	457	441	823	368			265	24	275			566	550							650
				90	280M			280	457	441	873	419			264	24	275			566	550							726
125	100	250	3	55	250M			250	406	439	748	349			231	24	275			579	490				518			
				75	280S	140	80	280	457	461	823	368	225	280	265	24	275	160	120	400	315	601	550	18	18	140	659	
				90	280M			280	457	461	873	419			264	24	275			601	550							735
				110	315S			315	508	487	1038	406			416	28	330			627	628							1099
65	40	315	2	22	180M			180	279	342	575	241			213	15	175			467	355				251			
				30	200L	125	65	200	318	354	643	305	200	250	205	19	200	125	95	345	280	479	395	14	16	100	314	
				37	200L			200	318	354	643	305			205	19	200			479	395							329
				45	225M			225	356	370	685	311			225	19	225			495	435							386
80	50	315	2	30	200L			200	318	354	643	305			205	19	200			479	395				318			
				37	200L			200	318	354	643	305			205	19	200			479	395						333	
				45	225M	125	65	225	356	370	685	311	225	280	225	19	225	125	95	345	280	495	435	14	18	100	390	
				55	250M			250	406	419	748	349			231	24	275			544	490							501
				75	280S			280	457	441	823	368			265	24	275			566	550							642
100	65	315	3	55	250M			250	406	439	748	349			231	24	275			564	490				519			
				75	280S	125	80	280	457	461	823	368	225	280	265	24	275	160	120	400	315	586	550	18	18	140	660	
				90	280M			280	457	461	873	419			264	24	275			586	550							736
				110	315S			315	508	514	1038	406			416	28	330			639	628							1100
125	80	315	3	75	280S			280	457	461	823	368			265	24	275			586	550				669			
				90	280M	125	80	280	457	461	873	419	250	315	264	24	275	160	120	400	315	586	550	18	20	140	745	
				110	315S			315	508	514	1038	406			416	28	330			639	628							1109
				132	315M			315	508	514	1098	457			425	28	330			639	628							1209
125	100	315	3	90	280M			280	457	461	873	419			264	24	275			601	550				754			
				110	315S	140	80	315	508	514	1038	406	250	315	416	28	330	160	120	400	315	654	628	18	19	140	1118	
				132	315M			315	508	514	1098	457			425	28	330			654	628							1218

Pump Flanged Connections to A.S. 2129 — Table E

MAY 2005

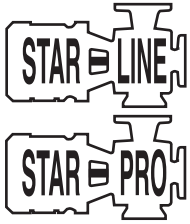


PUMP SIZE			SHAFT No.	MOTOR kW	FRAME SIZE	BASE KIT CODE	BASE CODE	DIMENSIONS													kg
INLET	OUTLET	IMP DIA						BL	BW	HC1	HC2	HC3	HB	BH	OH	A	UL	HS	H2	Gap X*	
50	32	160	1	0.55	80	PB001M	SED610	600	426	396	400	-	40	15	20	80	490	132	160	100	63
				0.75	80	PB001M	SED610	600	426	396	400	-	40	15					490		
65	50	160	1	0.55	80	PB001M	SED610	600	426	396	400	-	40	15			490				64
				0.75	80	PB001M	SED610	600	426	396	400	-	40	15	20	80	490	132	160	100	65
				1.1	90S	PB003M	SED610	600	426	396	400	-	40	15			500				69
80	65	160	1	0.75	80	PB011M	SED610	600	426	396	400	-	40	15			510				71
				1.1	90S	PB013M	SED610	600	426	396	400	-	40	15	20	100	520	160	180	100	75
				1.5	90L	PB013M	SED610	600	426	396	400	-	40	15			545				80
100	80	160	2	1.1	90S	PB019M	SED610	600	426	396	400	-	40	15			524				85
				1.5	90L	PB019M	SED610	600	426	396	400	-	40	15	19.5	100	549	160	200	100	90
				2.2	100L	PB021M	SED610	600	426	396	400	-	40	15			591				99
				3	100L	PB029M	SED610	600	426	396	400	-	40	15			591				103
50	32	200	1	0.75	80	PB011M	SED610	600	426	396	400	-	40	15			490				72
				1.1	90S	PB013M	SED610	600	426	396	400	-	40	15	20	80	500	160	180	100	76
				1.5	90L	PB013M	SED610	600	426	396	400	-	40	15			525				81
65	40	200	1	1.1	90S	PB013M	SED610	600	426	396	400	-	40	15			520				77
				1.5	90L	PB013M	SED610	600	426	396	400	-	40	15	20	100	545	160	180	100	82
				2.2	100L	PB029M	SED610	600	426	396	400	-	40	15			587				91
80	50	200	1	1.5	90L	PB013M	SED610	600	426	396	400	-	40	15			545				88
				2.2	100L	PB029M	SED610	600	426	396	400	-	40	15	20	100	587	160	200	100	97
				3	100L	PB029M	SED610	600	426	396	400	-	40	15			587				101
100	65	200	2	2.2	100L	PB034M	SED610	600	426	396	400	-	40	15			591				106
				3	100L	PB034M	SED610	600	426	396	400	-	40	15	19.5	100	591	180	225	140	110
				4	112M	PB036M	SED610	600	426	396	400	-	40	15			606				114
				5.5	132S	PB038M	SED612	750	520	470	450	-	74	15			676				147
125	80	200	2	3	100L	PB034M	SED610	600	426	396	400	-	40	15			615				118
				4	112M	PB036M	SED610	600	426	396	400	-	40	15	20.5	125	630	180	250	140	122
				5.5	132S	PB038M	SED612	750	520	470	450	-	74	15			700				155
				7.5	132M	PB038M	SED612	750	520	470	450	-	74	15			740				168
125	100	200	2	4	112M	PB049M	SED610	600	426	396	400	-	40	15			631				130
				5.5	132S	PB051M	SED612	750	520	470	450	-	74	15	20	125	701	200	280	140	162
				7.5	132M	PB051M	SED612	750	520	470	450	-	74	15			741				175
65	40	250	2	1.5	90L	PB062M	SED610	600	426	396	400	-	40	15			549				99
				2.2	100L	PB034M	SED610	600	426	396	400	-	40	15	19.5	100	591	180	225	100	109
				3	100L	PB034M	SED610	600	426	396	400	-	40	15			591				113
80	50	250	2	3	100L	PB034M	SED610	600	426	396	400	-	40	15			616				112
				4	112M	PB036M	SED610	600	426	396	400	-	40	15	20.5	125	631	180	225	100	116
				5.5	132S	PB038M	SED612	750	520	470	450	-	74	15			701				149
100	65	250	2	4	112M	PB067M	SED610	600	426	396	400	-	40	15			631				127
				5.5	132S	PB051M	SED612	750	520	470	450	-	74	15	20	125	701	200	250	140	159
				7.5	132M	PB051M	SED612	750	520	470	450	-	74	15			741				172
125	80	250	2	5.5	132S	PB137M	SED612	750	520	470	450	-	74	15			700				172
				7.5	132M	PB137M	SED612	750	520	470	450	-	74	15	20	125	740	225	280	140	185
				11	160M	PB221M	SED614	900	572	522	600	-	93	19			851				243
125	100	250	3	7.5	132M	PB073M	SED612	750	520	470	450	-	74	15			776				203
				11	160M	PB075M	SED612	750	520	470	450	-	74	15	20	140	886	225	280	140	247
				15	160L	PB077M	SED614	900	572	522	600	-	93	19			941				281
150	125	250	3	11	160M	PB086M	SED612	750	520	470	450	-	74	15			886				267
				15	160L	PB088M	SED614	900	572	522	600	-	93	19	20	140	941	250	355	140	301
				18.5	180M	PB089M	SED614	900	572	522	600	-	93	19			956				337
				22	180L	PB089M	SED614	900	572	522	600	-	93	19			996				345

Pump Flanged Connections to A.S. 2129 — Table E

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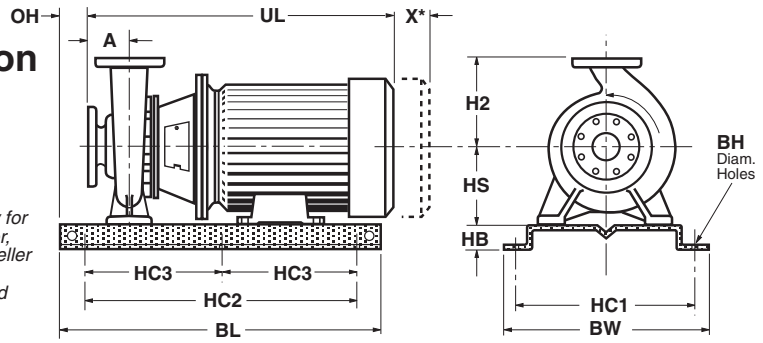
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CENTRIFUGAL MOTORPUMPS

Dimension Data...

** Space necessary for withdrawal of motor, backplate and impeller assembly without disturbing body and pipework.*

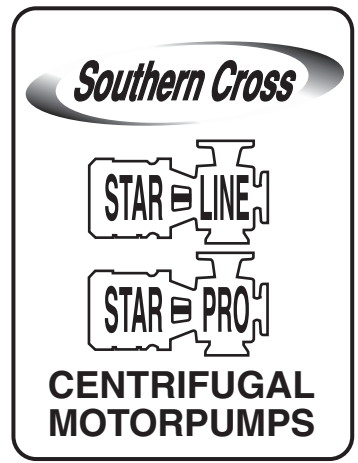
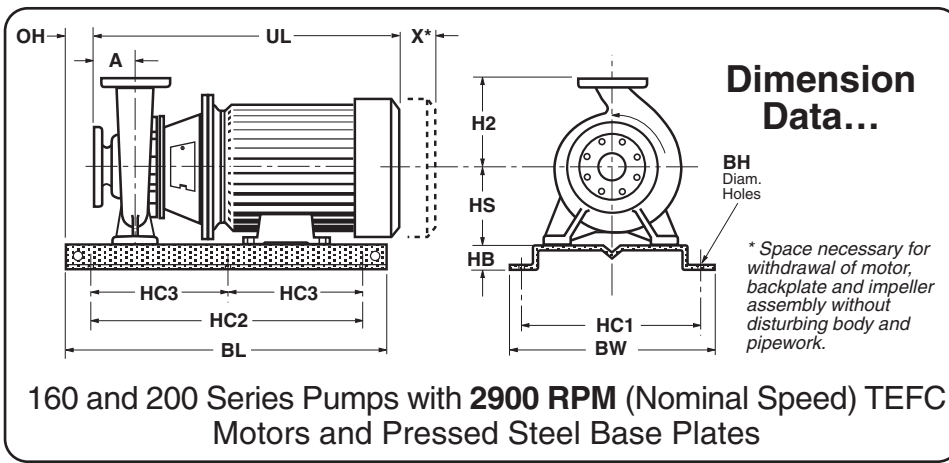


315 and 400 Series Pumps with 1450 RPM (Nominal Speed) TEFC Motors and Pressed Steel Base Plates

PUMP SIZE			SHAFT No.	MOTOR kW	FRAME SIZE	BASE KIT CODE	BASE CODE	DIMENSIONS													kg	
INLET	OUTLET	IMP DIA						BL	BW	HC1	HC2	HC3	HB	BH	OH	A	UL	HS	H2	Gap X*		
65	40	315	2	3	100L	PB134M	SED610	600	426	396	400	-	40	15			616					121
				4	112M	PB135M	SED610	600	426	396	400	-	40	15	20.5	125	631	200	250	100	126	
				5.5	132S	PB129M	SED612	750	520	470	450	-	74	15			701					158
80	50	315	2	4	112M	PB098M	SED610	600	426	396	400	-	40	15			631					128
				5.5	132S	PB137M	SED612	750	520	470	450	-	74	15	20.5	125	701	225	280	100	164	
				7.5	132M	PB137M	SED612	750	520	470	450	-	74	15			741					177
100	65	315	3	7.5	132M	PB073M	SED612	750	520	470	450	-	74	15			760					204
				11	160M	PB075M	SED612	750	520	470	450	-	74	15	20	125	871	225	280	140	248	
				15	160L	PB077M	SED614	900	572	522	600	-	93	19			926					282
125	80	315	3	11	160M	PB086M	SED612	750	520	470	450	-	74	15			871					259
				15	160L	PB088M	SED614	900	572	522	600	-	93	19	20	125	926	250	315	140	293	
				18.5	180M	PB089M	SED614	900	572	522	600	-	93	19			941					329
125	100	315	3	11	160M	PB086M	SED612	750	520	470	450	-	74	15			886					268
				15	160L	PB088M	SED614	900	572	522	600	-	93	19	20	140	941	250	315	140	302	
				18.5	180M	PB089M	SED614	900	572	522	600	-	93	19			956					338
				22	180L	PB089M	SED614	900	572	522	600	-	93	19			996					346
150	125	315	3	18.5	180M	PB112M	SED614	900	572	522	600	-	93	19			956					358
				22	180L	PB112M	SED614	900	572	522	600	-	93	19			996					366
				30	200L	PB115M	SED616	1100	622	572	800	-	68	19	20	140	1024	280	355	140	458	
				37	225S	PB117M	SED616	1100	622	572	800	-	68	19			1071					474
				45	225M	PB123M	SED616	1100	622	572	800	-	68	19			1096					513
125	80	400	3	15	160L	PB119M	SED614	900	572	522	600	-	93	19			926					332
				18.5	180M	PB121M	SED614	900	572	522	600	-	93	19	20	125	941	280	355	140	369	
				22	180L	PB121M	SED614	900	572	522	600	-	93	19			981					377
				30	200L	PB122M	SED616	1100	622	572	800	-	68	19			1009					469
125	100	400	3	22	180L	PB112M	SED614	900	572	522	600	-	93	19			996					386
				30	200L	PB115M	SED616	1100	622	572	800	-	68	19	20	140	1024	280	355	140	478	
				37	225S	PB123M	SED616	1100	622	572	800	-	68	19			1071					497
				45	225M	PB123M	SED616	1100	622	572	800	-	68	19			1096					533
150	125	400	3	37	225S	PB125M	SED616	1100	622	572	800	-	68	19			1071					511
				45	225M	PB125M	SED616	1100	622	572	800	-	68	19	20	140	1096	315	400	140	547	
				55	250M	PB126M	SED616	1100	622	572	800	-	68	19			1138					662

Pump Flanged Connections to A.S. 2129 — Table E

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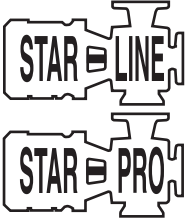


PUMP SIZE			SHAFT No.	MOTOR kW	FRAME SIZE	BASE KIT CODE	BASE CODE	DIMENSIONS													
INLET	OUTLET	IMP DIA						BL	BW	HC1	HC2	HC3	HB	BH	OH	A	UL	HS	H2	Gap X*	kg
50	32	160	1	2.2	90L	PB003M	SED610	600	426	396	400	-	40	15			519	132			71
				3	100L	PB005M	SED610	600	426	396	400	-	40	15			567	132			80
				4	112M	PB007M	SED610	600	426	396	400	-	40	15	20	80	582	132	160	100	91
				5.5	132S	PB009M	SED612	750	520	470	450	-	74	15			652	132			121
65	50	160	1	4	112M	PB007M	SED610	600	426	396	400	-	40	15			582	132			92
				5.5	132S	PB009M	SED612	750	520	470	450	-	74	15	20	80	652	157	160	100	122
				7.5	132S	PB009M	SED612	750	520	470	450	-	74	15			652	157			128
80	65	160	1	5.5	132S	PB015M	SED612	750	520	470	450	-	74	15			672	160			126
				7.5	132S	PB015M	SED612	750	520	470	450	-	74	15	20	100	672	160	180	100	132
				11	160M	PB017M	SED612	750	520	470	450	-	74	15			822	180			186
				15	160M	PB024M	SED614	900	572	522	600	-	93	19			822	180			207
100	80	160	2	11	160M	PB017M	SED612	750	520	470	450	-	74	15			826	180			196
				15	160M	PB024M	SED614	900	572	522	600	-	93	19	19.5	100	826	180	200	100	217
				18.5	160L	PB024M	SED614	900	572	522	600	-	93	19			881	180			239
50	32	200	1	5.5	132S	PB015M	SED612	750	520	470	450	-	74	15			652	160			127
				7.5	132S	PB015M	SED612	750	520	470	450	-	74	15	20	80	652	160	180	100	133
				11	160M	PB017M	SED612	750	520	470	450	-	74	15			803	180			187
65	40	200	1	7.5	132S	PB015M	SED612	750	520	470	450	-	74	15			672	160			134
				11	160M	PB017M	SED612	750	520	470	450	-	74	15	20	100	823	180	180	100	188
				15	160M	PB024M	SED614	900	572	522	600	-	93	19			823	180			209
80	50	200	1	11	160M	PB017M	SED612	750	520	470	450	-	74	15			823	180			194
				15	160M	PB024M	SED614	900	572	522	600	-	93	19	20	100	823	180	200	100	215
				18.5	160L	PB024M	SED614	900	572	522	600	-	93	19			878	180			237
				22	180M	PB032M	SED614	900	572	522	600	-	93	19			893	180			268
100	65	200	2	18.5	160L	PB040M	SED614	900	572	522	600	-	93	19			881	180			243
				22	180M	PB043M	SED614	900	572	522	600	-	93	19	19.5	100	896	180	225	140	274
				30	200L	PB045M	SED614	900	572	522	600	-	93	19			964	200			339
				37	200L	PB045M	SED614	900	572	522	600	-	93	19			964	200			354
125	80	200	2	22	180M	PB043M	SED614	900	572	522	600	-	93	19			921	180			282
				30	200L	PB045M	SED614	900	572	522	600	-	93	19	20.5	125	989	200	250	140	347
				37	200L	PB045M	SED614	900	572	522	600	-	93	19			989	200			362
				45	225M	PB143M	SED616	1100	622	572	800	-	68	19			1031	225			427
125	100	200	2	30	200L	PB056M	SED614	900	572	522	600	-	93	19			989	200			351
				37	200L	PB056M	SED614	900	572	522	600	-	93	19			989	200			366
				45	225M	PB058M	SED616	1100	622	572	800	-	68	19	20	125	1031	225	280	140	432
				55	250M	PB071M	SED616	1100	622	572	800	-	68	19			1124	280			553
				75	280S	PB060M	SED618	1200	676	626	800	-	120	24			1199	280			725

Pump Flanged Connections to A.S. 2129 — Table E

MAY 2005

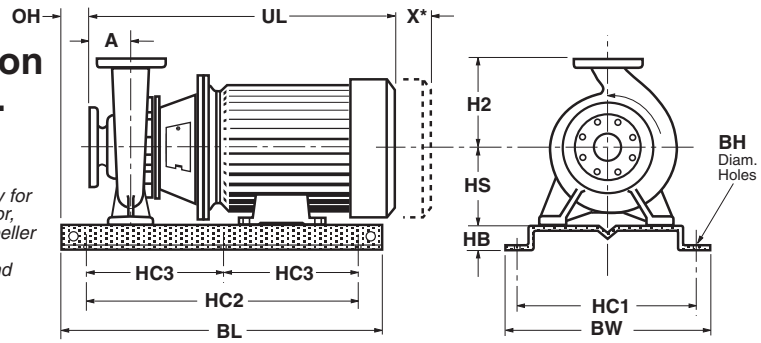
Southern Cross



CENTRIFUGAL MOTORPUMPS

Dimension Data...

* Space necessary for withdrawal of motor, backplate and impeller assembly without disturbing body and pipework.

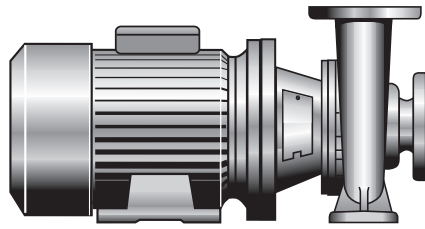


250 and 315 Series Pumps with 2900 RPM (Nominal Speed) TEFC Motors and Pressed Steel Base Plates

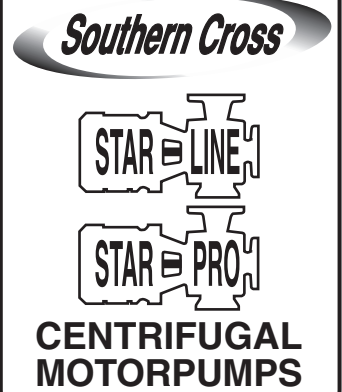
PUMP SIZE			SHAFT No.	MOTOR kW	FRAME SIZE	BASE KIT CODE	BASE CODE	DIMENSIONS												kg		
INLET	OUTLET	IMP DIA						BL	BW	HC1	HC2	HC3	HB	BH	OH	A	UL	HS	H2		GAP X*	
65	40	250	2	11	160M	PB064M	SED612	750	520	470	450	-	74	15			826	180			203	
					15	160M	PB040M	SED614	900	572	522	600	-	93	19			826	180			224
					18.5	160L	PB040M	SED614	900	572	522	600	-	93	19	19.5	100	881	180	225	100	246
					22	180M	PB043M	SED614	900	572	522	600	-	93	19			896	180			277
					30	200L	PB045M	SED614	900	572	522	600	-	93	19			964	200			342
80	50	250	2	22	180M	PB043M	SED614	900	572	522	600	-	93	19			921	180			276	
					30	200L	PB045M	SED614	900	572	522	600	-	93	19	20.5	125	989	200	225	100	341
					37	200L	PB045M	SED614	900	572	522	600	-	93	19			989	200			356
					45	225M	PB143M	SED616	1100	622	572	800	-	68	19			1031	225			421
100	65	250	2	30	200L	PB056M	SED614	900	572	522	600	-	93	19			989	200			348	
					37	200L	PB056M	SED614	900	572	522	600	-	93	19			989	200			363
					45	225M	PB069M	SED616	1100	622	572	800	-	68	19	20	125	1031	225	250	140	429
					55	250M	PB071M	SED616	1100	622	572	800	-	68	19			1124	280			550
125	80	250	2	45	225M	PB105M	SED616	1100	622	572	800	-	68	19			1031	225			438	
					55	250M	PB106M	SED616	1100	622	572	800	-	68	19	20	125	1124	280	280	140	561
					75	280S	PB223M	SED618	1200	676	626	800	-	120	24			1199	280			726
					90	280M	PB223M	SED618	1200	676	626	800	-	120	24			1249	280			802
125	100	250	3	55	250M	PB106M	SED616	1100	622	572	800	-	68	19			1159	280			570	
					75	280S	PB082M	SED618	1200	676	626	800	-	120	24	20	140	1234	280	280	140	735
					90	280M	PB082M	SED618	1200	676	626	800	-	120	24			1284	280			811
					110	315S	PB113M	SED619	1500	775	725	1100	550	120	24			1449	330			1303
65	40	315	2	22	180M	PB136M	SED614	900	572	522	600	-	93	19			921	200			286	
					30	200L	PB132M	SED614	900	572	522	600	-	93	19	20.5	125	989	200	250	100	347
					37	200L	PB132M	SED614	900	572	522	600	-	93	19			989	200			362
					45	225M	PB094M	SED616	1100	622	572	800	-	68	19			1031	225			428
80	50	315	2	30	200L	PB103M	SED614	900	572	522	600	-	93	19			989	225			353	
					37	200L	PB103M	SED614	900	572	522	600	-	93	19			989	225			368
					45	225M	PB105M	SED616	1100	622	572	800	-	68	19	20.5	125	1031	225	280	100	430
					55	250M	PB106M	SED616	1100	622	572	800	-	68	19			1124	280			553
					75	280S	PB082M	SED618	1200	676	626	800	-	120	24			1199	280			718
100	65	315	3	55	250M	PB106M	SED616	1100	622	572	800	-	68	19			1144	280			571	
					75	280S	PB082M	SED618	1200	676	626	800	-	120	24	20	125	1219	280	280	140	736
					90	280M	PB082M	SED618	1200	676	626	800	-	120	24			1269	280			812
					110	315S	PB113M	SED619	1500	775	725	1100	550	120	24			1461	330			1304
125	80	315	3	75	280S	PB108M	SED618	1200	676	626	800	-	120	24			1219	280			743	
					90	280M	PB108M	SED618	1200	676	626	800	-	120	24	20	125	1269	280	315	140	819
					110	315S	PB111M	SED619	1500	775	725	1100	550	120	24			1461	330			1310
					132	315M	PB111M	SED619	1500	775	725	1100	550	120	24			1521	330			1410
125	100	315	3	90	280M	PB108M	SED618	1200	676	626	800	-	120	24			1284	280			828	
					110	315S	PB111M	SED619	1500	775	725	1100	550	120	24	20	140	1476	330	315	140	1319
					132	315M	PB111M	SED618	1500	775	725	1100	550	120	24			1536	330			1419

Pump Flanged Connections to A.S. 2129 — Table E

MAY 2005



Material Specifications



MATERIAL SPECIFICATIONS

SYMBOL	MATERIAL	SPECIFICATION	COMPONENT WHERE USED
CI	Cast Iron	AS1830/T260 Equivalent Standards: BS 1452 (1977) Grade 260 ANSI. 625.1 Class 40 ASTM A48 Class 40	Bell Housing Volute Casing Backplate Impeller
ZF	Zinc Free Bronze	AS 1565/ C90250 Equivalent Standards: BS 1400 PB3 ISO 1338 CU SN 10	Impeller Wear Rings <i>Backplate (Star-PRO only)</i> <i>Volute Casing (Star-PRO only)</i>
SS	316 Cast Stainless Steel	AS 2074 H6B Equivalent Standards: BS 100 (1976) Grade 316C16 ASTM A296 Grade CF8M	Shaft <i>Volute Casing (Star-PRO only)</i> <i>Backplate (Star-PRO only)</i> <i>Impeller (Star-PRO only)</i> <i>Wear Rings (Star-PRO only)</i>
	Wrought Stainless Steel	AS 2837/ 316 Equivalent Standards: BS 970 Grade 319S16 ASTM A240/S31609	Impeller Washer Impeller Nut <i>Casing & Discharge Flange Plugs (Star-PRO only)</i>
	2205 Duplex Stainless Steel	UNS S31803 ASTM A276-98b	<i>Impeller Key (Star-PRO only)</i>
	316 Stainless Steel	AS 2548 Gr. A4-80	<i>Bolts & Setscrews (Star-PRO ZF & SS)</i>
SGL	S.G. Iron	AS1831/ 400 — 12	Motor Shaft Clamp <i>Volute Casing (Star-PRO only)</i> <i>Backplate (Star-PRO only)</i> <i>Impeller (Star-PRO only)</i>
HT	High Tensile Steel	AS 1110 Gr. 8.8	All Bolts and Setscrews
	Mild Steel Zinc Plated		Casing and Discharge Flange Plugs
	Key Steel		Impeller Key

PAINTING

One Coat — Watty Super Etch Grey Primer (Watty Part No. 123907)
Two Coats — Watty 517 Hammer Finish Green (Watty Part No. 151741)
Colour — Hammer Finish Green

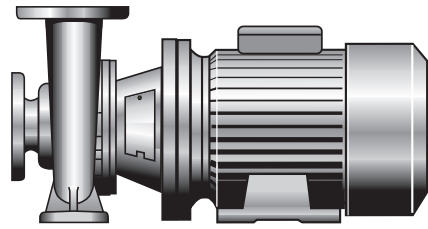
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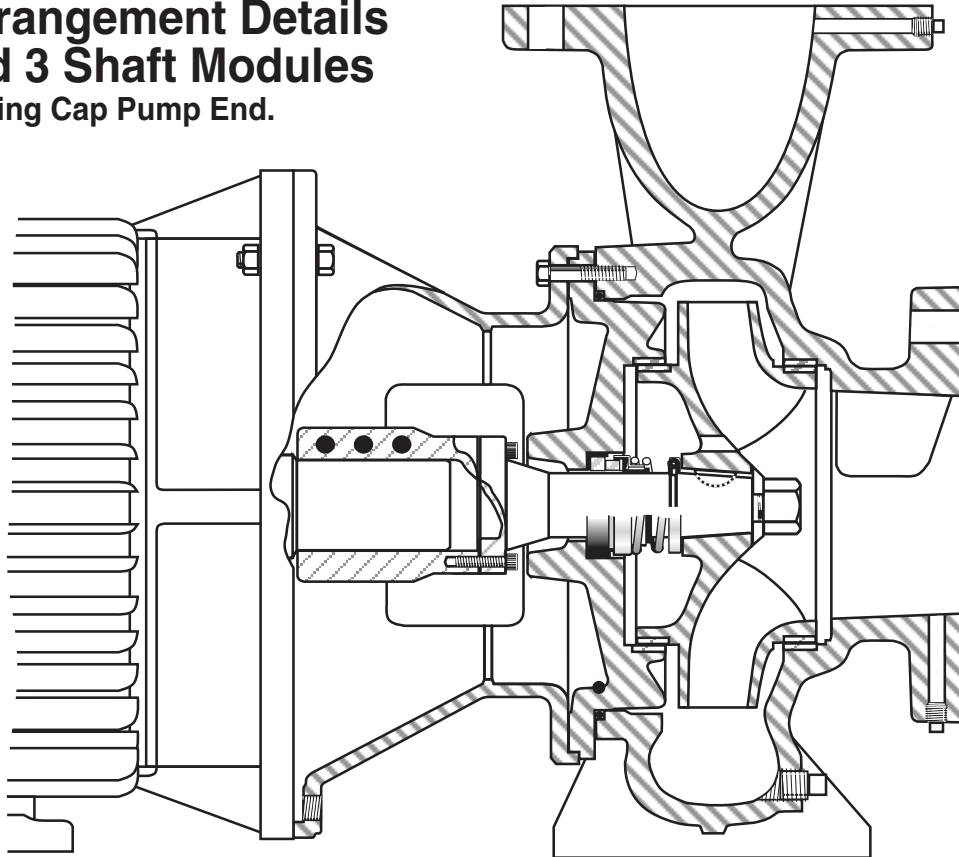
**CENTRIFUGAL
MOTORPUMPS**

**Sectional
Arrangement
and Flange
Details**

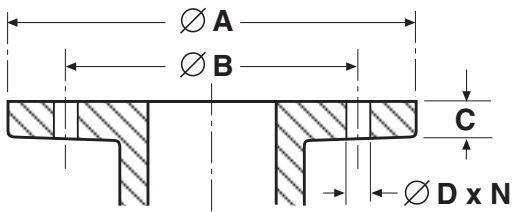


**Sectional Arrangement Details
No. 1, 2, and 3 Shaft Modules**

Note: Bearing Cap Pump End.



FLANGE DIMENSIONS

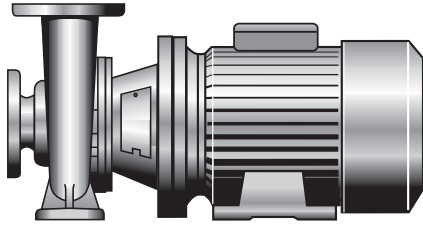


NOTE:

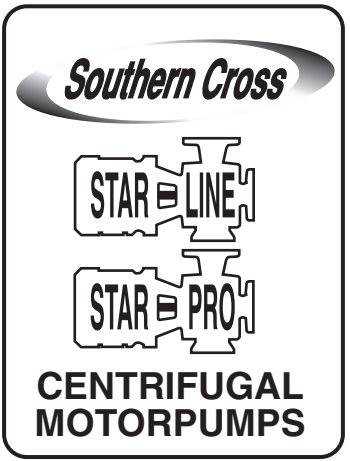
1. Holes machined off centrelines.
2. Flange drilling as shown below conforms to AS 2129—1982 Table 'E' for cast iron flanges.
3. Flange drilling to ANSI B16.1.1975 Class 125 (ISO7005 — PN20) PN16 are available options.

NOMINAL FLANGE SIZE		32	40	50	65	80	100	125	150
FLANGE DIAMETER	A	140	150	165	185	200	220	250	285
HOLE P.C.D.	B	87	98	114	127	146	178	210	235
FLANGE THICKNESS	C	18	18	20	20	22	24	26	26
HOLE DIAMETER	D	14	14	18	18	18	18	18	22
NUMBER OF HOLES	N	4	4	4	4	4	8	8	8

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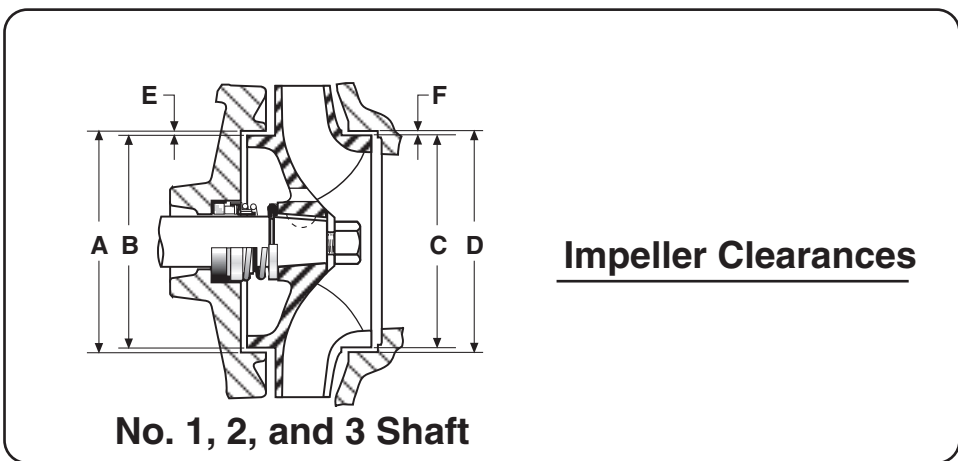
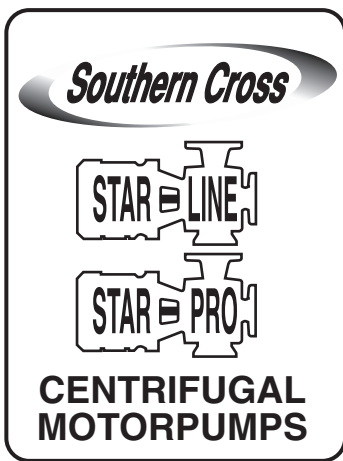


**Miscellaneous
Pump
Data
No. 1, 2, and
3 Shaft**



PUMP SIZE	C.I. IMPELLER kg	IMPELLER ROTATIONAL INERTIA (kg/m ²)	MIN. CASING THICKNESS (mm)	C.I.-Z.F. IMPELLER		MAX. OPERATING SPEED (r.p.m.)	IMPELLER	
				HYDROSTATIC TEST PRESSURE (kPa)	MAX. WORKING PRESSURE (kPa)		No. of VANES	MAX SPHERE SIZE (mm)
50 x 32 - 160	2.7	0.008	9	3800	2500	3600	6	5
65 x 50 - 160	2.6	0.008	9	3800	2500	3600	6	7
80 x 65 - 160	2.8	0.010	10	3800	2500	3600	6	11
100 x 80 - 160	4.2	0.014	10	3800	2500	3600	6	12
50 x 32 - 200	3.7	0.018	9	3300	2200	3600	6	4
65 x 40 - 200	4.0	0.019	9	3800	2500	3600	6	5
80 x 50 - 200	4.0	0.021	10	3800	2500	3600	6	9
100 x 65 - 200	6.0	0.033	10	2800	1850	3600	6	14
125 x 80 - 200	6.5	0.037	11.5	2620	1750	3000	6	15
125 x 100 - 200	6.4	0.036	13	3000	2000	3000	6	17
65 x 40 - 250	6.0	0.042	10	3300	2200	3600	5	5
80 x 50 - 250	6.0	0.042	10	2800	1900	3600	6	6
100 x 65 - 250	7.0	0.052	11	2600	1700	3000	6	9
125 x 80 - 250	8.0	0.061	12.5	2620	1750	3000	6	15
125 x 100 - 250	9.5	0.077	12	2400	1600	3000	6	23
150 x 125 - 250	10	0.088	14	2470	1650	2600	6	33
65 x 40 - 315	10.1	0.128	11	2800	1900	3000	5	5
80 x 50 - 315	9.2	0.112	12	3300	2200	3000	5	7
100 x 65 - 315	12.3	0.139	13	2700	1800	3000	6	9.5
125 x 80 - 315	13.0	0.152	14	2620	1750	3000	6	11.5
125 x 100 - 315	13.2	0.157	16	3070	2050	3000	6	14.5
150 x 125 - 315	13.4	0.164	16	2470	1650	2300	6	26
125 x 80 - 400	20.5	0.422	15	2400	1600	2300	5	9.5
125 x 100 - 400	19.9	0.389	16	2400	1600	2100	6	12
150 x 125 - 400	20.6	0.427	17	2400	1600	2000	6	18

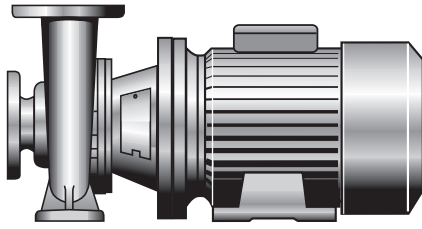
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Impeller Clearances

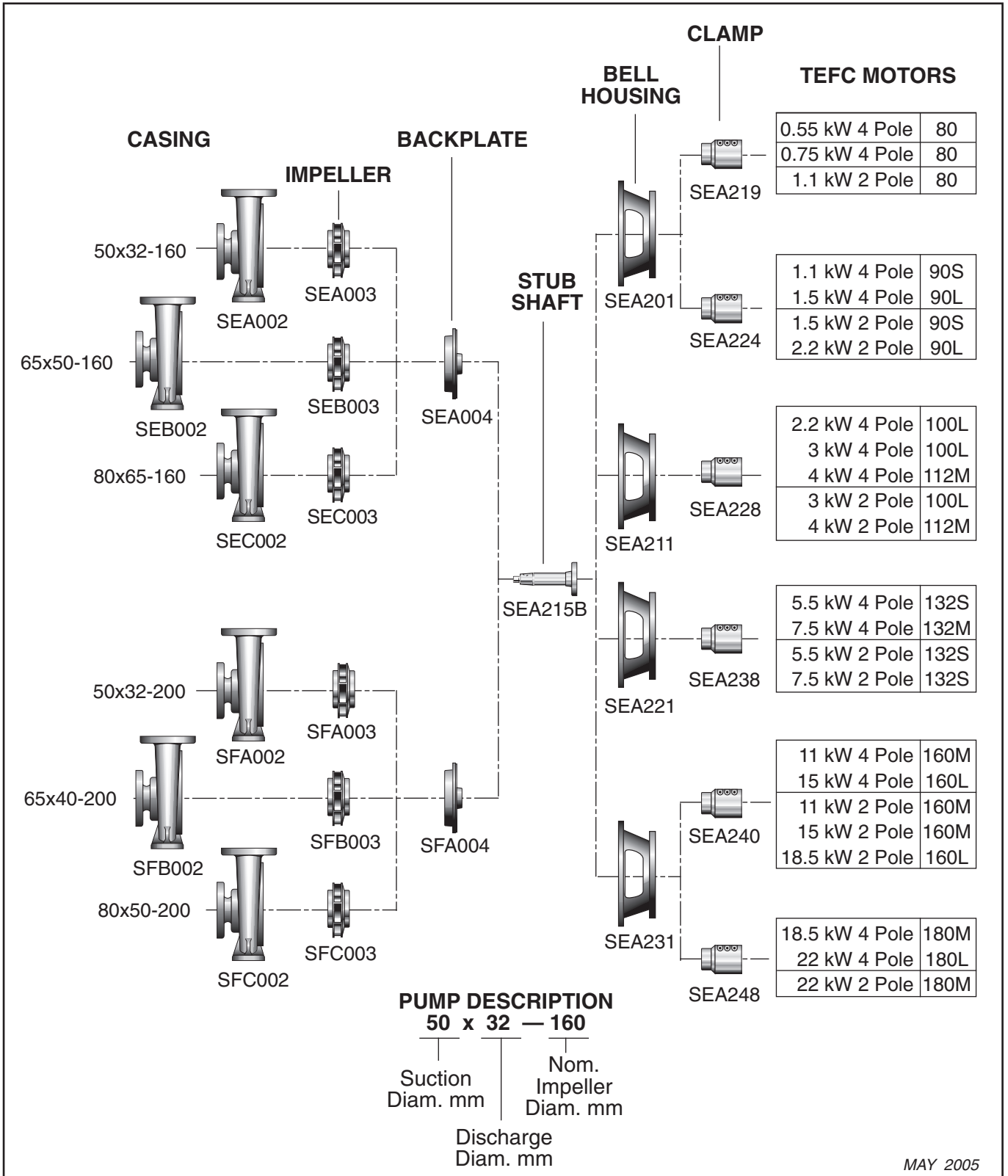
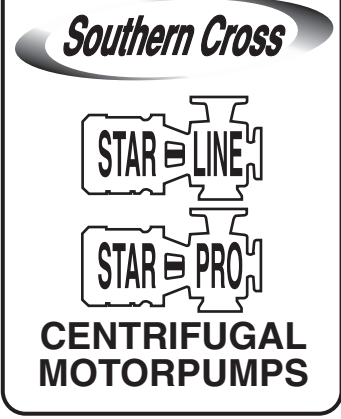
PUMP SIZE		IMPELLER AND CASING SEALING DIAMETERS						RADIAL CLEARANCE			
		A	B		C		D	E		F	
			CI/ZF	SS	CI/ZF	SS		CI/ZF	SS	CI/ZF	SS
50 x 32-160	65 x 50-160	92.05 92.00	91.76 91.71	91.63 91.58	91.76 91.71	91.63 91.58	92.05 92.00	0.12 0.17	0.18 0.23	0.12 0.17	0.18 0.23
80 x 65-160		92.05 92.00	91.76 91.71	91.63 91.58	104.72 104.67	104.57 104.52	105.05 105.00	0.12 0.17	0.18 0.23	0.14 0.19	0.21 0.26
100x 80-160		132.05 132.00	131.68 131.61	131.51 131.44	131.68 131.61	131.51 131.44	132.05 132.00	0.16 0.22	0.24 0.30	0.16 0.22	0.24 0.30
50 x 32-200	65 x 40-200	105.05 105.00	104.72 104.67	104.57 104.52	91.76 91.71	91.63 91.58	92.05 92.00	0.14 0.19	0.21 0.26	0.12 0.17	0.18 0.23
80 x 50-200		105.05 105.00	104.72 104.67	104.57 104.52	104.72 104.67	104.57 104.52	105.05 105.00	0.14 0.19	0.21 0.26	0.14 0.19	0.21 0.26
100 x 65-200		132.05 132.00	131.68 131.61	131.51 131.44	131.68 131.61	131.51 131.44	132.05 132.00	0.16 0.22	0.24 0.30	0.16 0.22	0.24 0.30
125 x 80-200	125 x 100-200	160.05 160.00	159.66 159.59	159.49 159.42	159.66 159.59	159.49 159.42	160.05 160.00	0.17 0.23	0.25 0.31	0.17 0.23	0.25 0.31
65 x 40-250	80 x 50-250	115.05 115.00	114.70 114.65	114.55 114.50	114.70 114.65	114.55 114.50	115.05 115.00	0.15 0.20	0.22 0.27	0.15 0.20	0.22 0.27
100 x 65-250		132.05 132.00	131.68 131.61	131.51 131.44	131.68 131.61	131.51 131.44	132.05 132.00	0.16 0.22	0.24 0.30	0.16 0.22	0.24 0.30
125 x 80-250		132.05 132.00	131.68 131.61	131.51 131.44	159.66 159.59	159.49 159.42	160.05 160.00	0.16 0.22	0.24 0.30	0.17 0.23	0.25 0.31
65 x 40-315		115.05 115.00	114.70 114.65	114.55 114.50	104.72 104.67	104.57 104.52	105.05 105.00	0.15 0.20	0.22 0.27	0.14 0.19	0.21 0.26
80 x 50-315		115.05 115.00	114.70 114.65	114.55 114.50	114.70 114.65	114.55 114.50	115.05 115.00	0.15 0.20	0.22 0.27	0.15 0.20	0.22 0.27
125 x 100-250	150 x 125-250	186.05	185.66	185.48	185.66	185.48	186.05	0.17	0.26	0.17	0.26
150 x 125-315	125 x 80-400	186.00	185.59	185.41	185.59	185.41	186.00	0.23	0.32	0.23	0.32
125 x 100-400	150 x 125-400										
100 x 65-315	125 x 80-315	160.05 160.00	159.66 159.59	159.49 159.42	159.66 159.59	159.49 159.42	160.05 160.00	0.17 0.23	0.25 0.31	0.17 0.23	0.25 0.31
MACHINING SIZES TO RETROFIT WEAR RINGS TO CASINGS AND IMPELLERS	NOM. SIZE	IMP. WEAR RING	IMP. TURN SIZE		CASINGWEAR RING	CASING BORE SIZE					
	92mm	SEA026	Ø 84.830 / 84.795		SEA027	Ø 99.000 / 99.035					
	105mm	SEC026	Ø 97.830 / 97.795		SEC027	Ø 112.000 / 112.035					
	115mm	SGB026	Ø 106.800 / 106.765		SGB027	Ø 123.000 / 123.035					
	132mm	SED026	Ø 123.77 / 123.73		SED027	Ø 140.000 / 140.040					
	160mm	SFF026	Ø 151.770 / 151.730		SFF027	Ø 168.000 / 168.040					
185mm	SGF026	Ø 177.770 / 177.730		SGF027	Ø 194.000 / 194.040						

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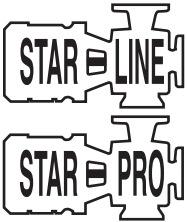


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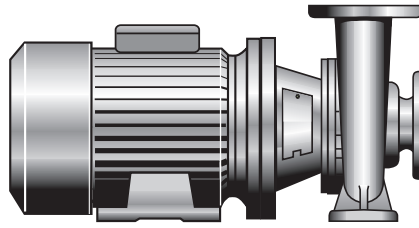
Shaft Assembly Group



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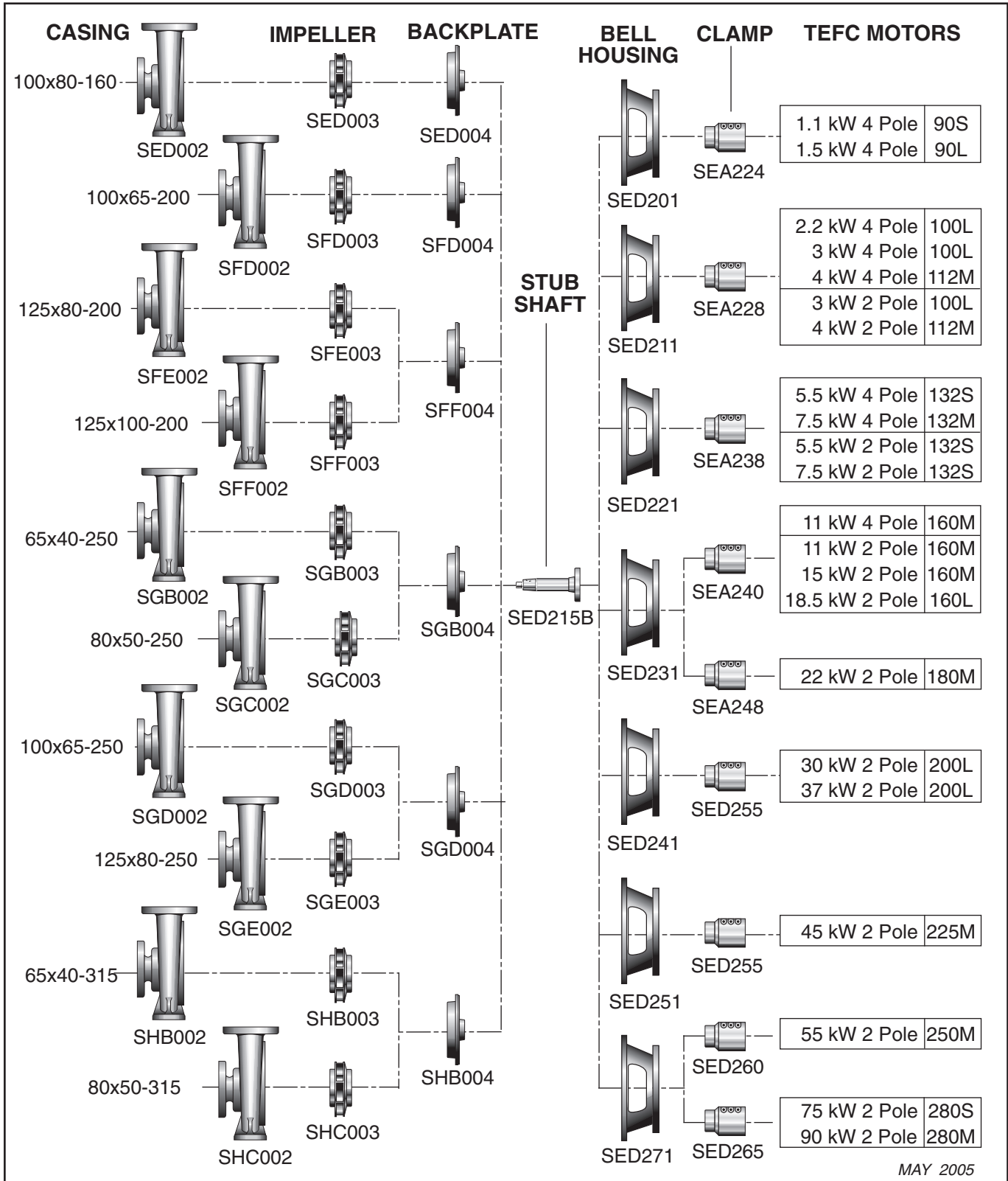


CENTRIFUGAL MOTORPUMPS

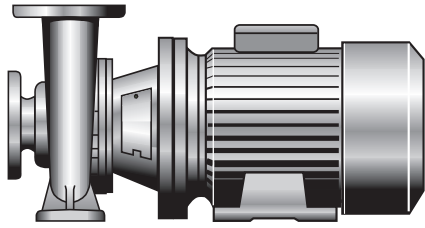


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Shaft Assembly Group

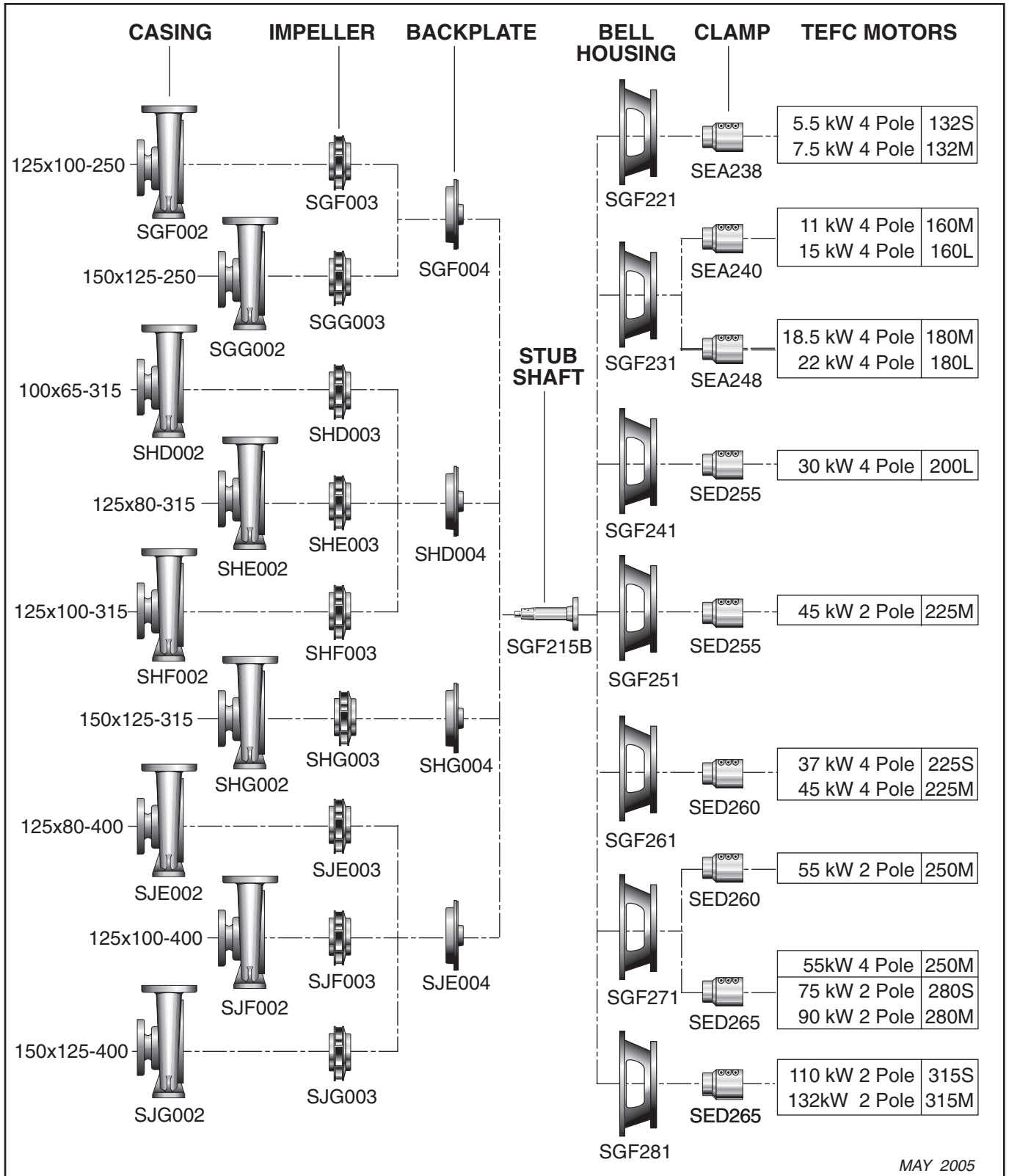
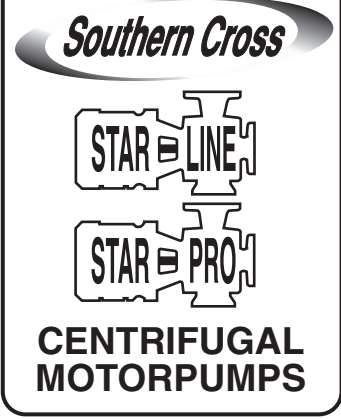


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No. 3

Shaft Assembly Group



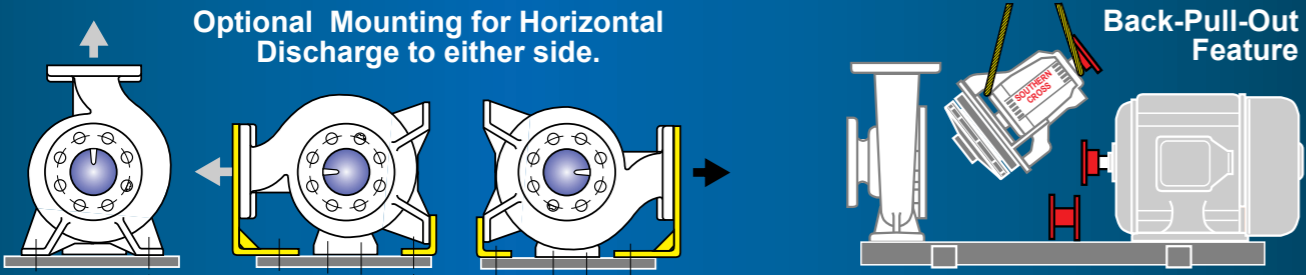
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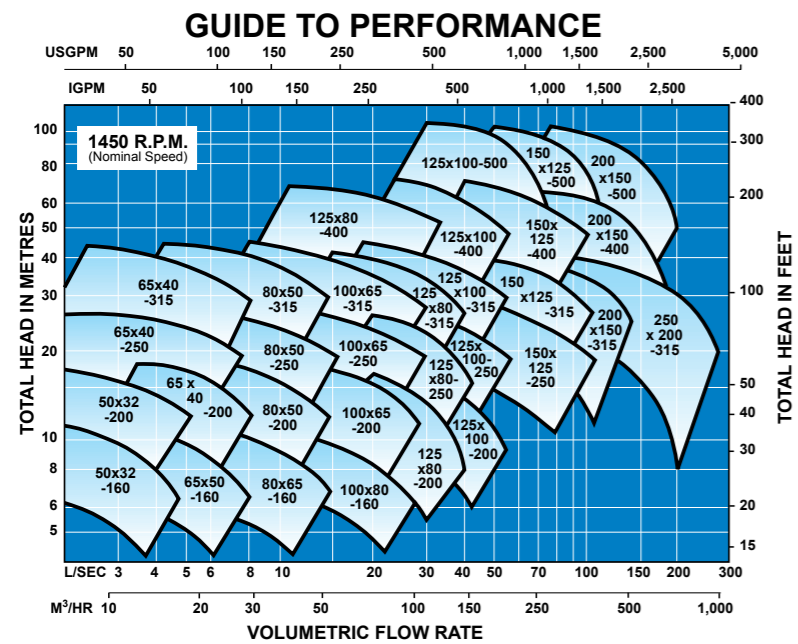
HEAVY DUTY INDUSTRIAL CENTRIFUGAL PUMPS



HEAVY DUTY INDUSTRIAL CENTRIFUGAL PUMPS



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APPLICATIONS

- Designed for heavy duty industrial use including belt drive applications.
- General water transfer in processing plants, mines, construction sites and irrigation.

FEATURES

- Heavy duty oil lubricated taper roller bearings.
- Australian designed and manufactured.
- Superior hydraulic design & manufacturing methods produce significantly higher efficiencies for lower running costs and reduced maintenance
- Wide range of options.
- Australia wide backup.
- Heads to 160 metres
- Up to 250 litres per second discharge.



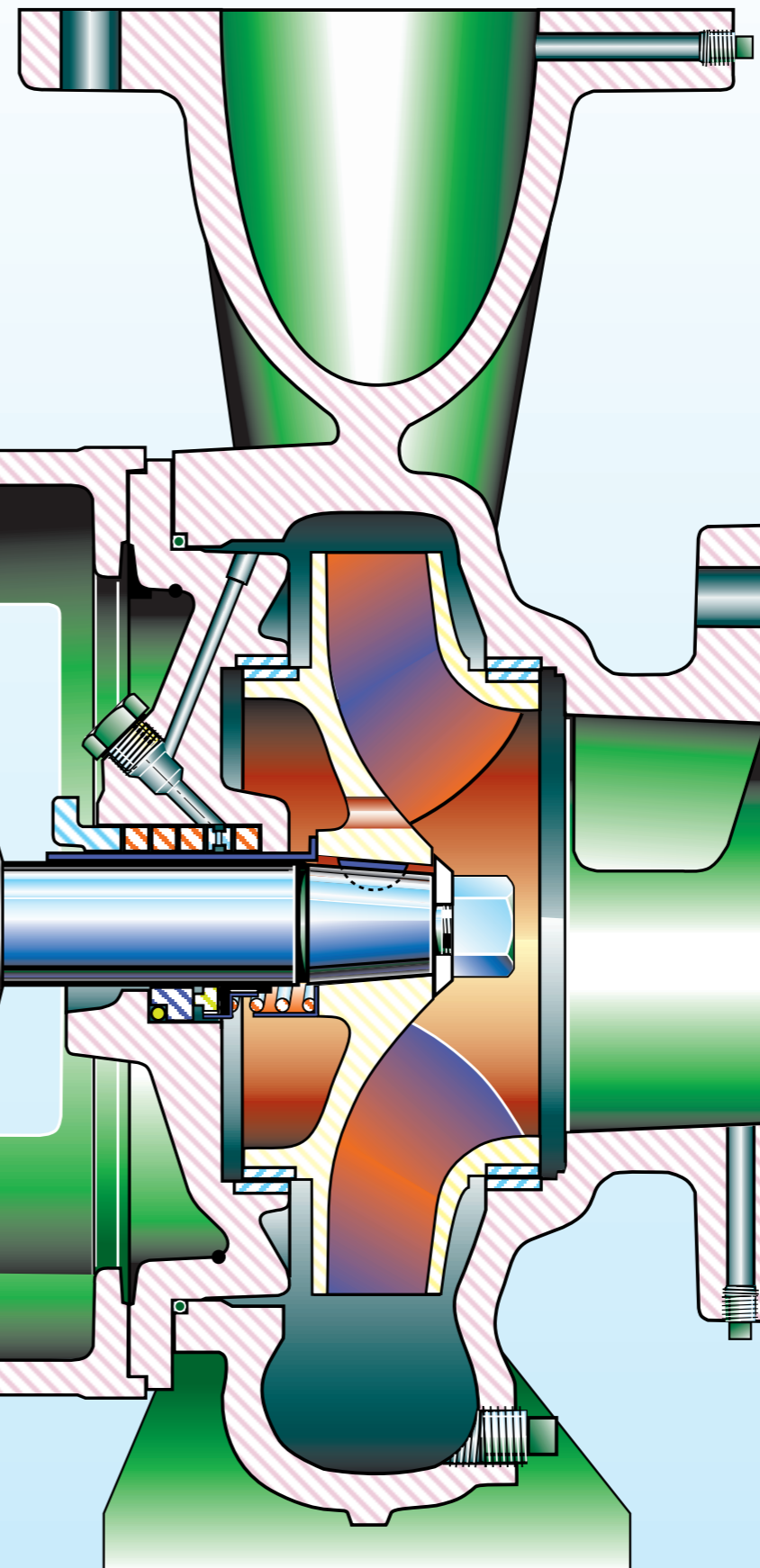
ENGINEERED BEARING HOUSING

- **ISO 5199 STANDARD** — Ensures dimensional interchangeability with pumps conforming to ISO 2585 plus the more stringent mechanical requirements of ISO 5199 standard.
- **HEAVY DUTY BEARINGS** — Fitted as standard with heavy duty taper roller bearings running in oil filled housing with oil mister. Housing is fitted with breather and oil level and drain plugs. Options include constant level oilers and oil coolers. To meet AS2941 Fire Protection Pump Code deep groove grease lubricated bearings, either sealed for life or grease nipple lubricated, can be fitted. Labyrinth shaft seals are available optionally.
- **RIGID SHAFT** — Heavy duty design type 316 or optional 431 stainless steel shaft for minimum deflection, smoother running and longer bearing life. Water slinger prevents intrusion of gland leakage into shaft bearing.
- **ROBUST BEARING HOUSING** — High strength cast iron bearing housing.
- **SUPERIOR QUALITY** — Outstanding design and manufacturing processes provide reliability and minimum maintenance.
- **2 YEAR WARRANTY**

- **MECHANICAL SEALS**— Fitted as standard with single on-shaft mechanical seal. Options include single or double cartridge seals running on stainless steel shaft sleeves in balanced or unbalanced configuration of various types to suit particular applications. External clean water flushing and cooling can be supplied for high temperature, abrasive or toxic applications.

- **PACKED GLAND SEALS** — Optional packed glands running on replaceable stainless steel shaft sleeves are available with pumped water by-pass lubrication, or external clean water flushing. Split glands are fitted for ease of service.

ENGINEERED PUMP WET END



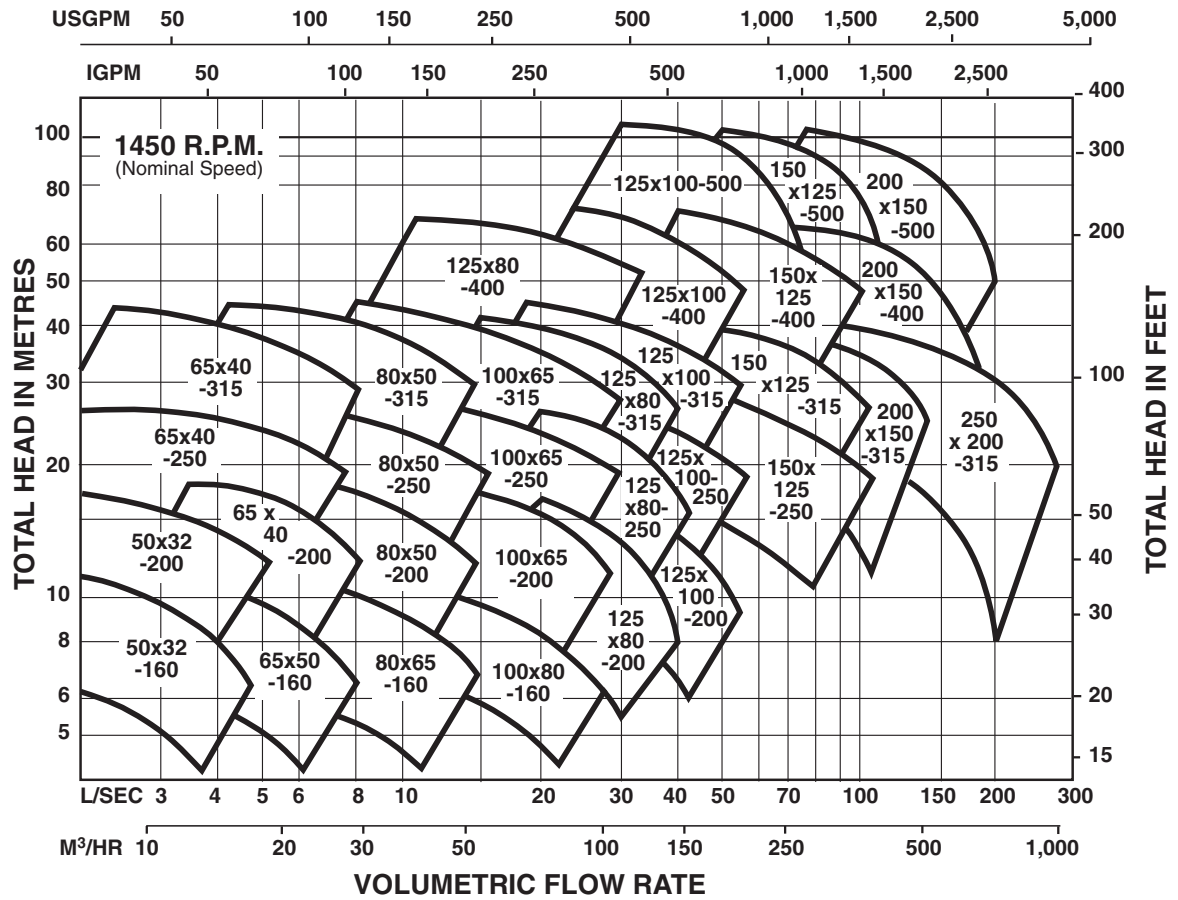
- **DESIGN EXCELLENCE**— Superior hydraulic design and manufacturing processes, together with double curvature impeller blades, provide highly efficient suction performance, higher speed capabilities and greater performance for reduced running costs and maintenance.
- **1600kPa PRESSURE RATING**
- **WET END MATERIAL OPTIONS**
Cast Iron AS1830 / T260
Stainless Steel AS2074 / H6B
Zinc Free Bronze AS1565 / C90250
SG Iron AS1831 / 400-12
“Durimet 20” AS2074 / H9A
- **TAPER MOUNTED IMPELLER**
Impeller is taper mounted and keyed to shaft for positive drive and easy removal.
- **WEAR RINGS** — Replaceable stainless steel or zinc free bronze wear rings are available for pump impeller and casing where abrasive liquids are pumped.
- **'O' RING OPTIONS** — Reusable 'O' ring body seals in “Viton” as standard and “Teflon®” or Graphite as options.
- **FLANGES** — AS2129 - Table “E”. Optional drillings on request.
- **STANDARD TAPPINGS** — Volute drain plug, suction flange tapping for suction gauge and discharge flange tapping for pressure gauge.



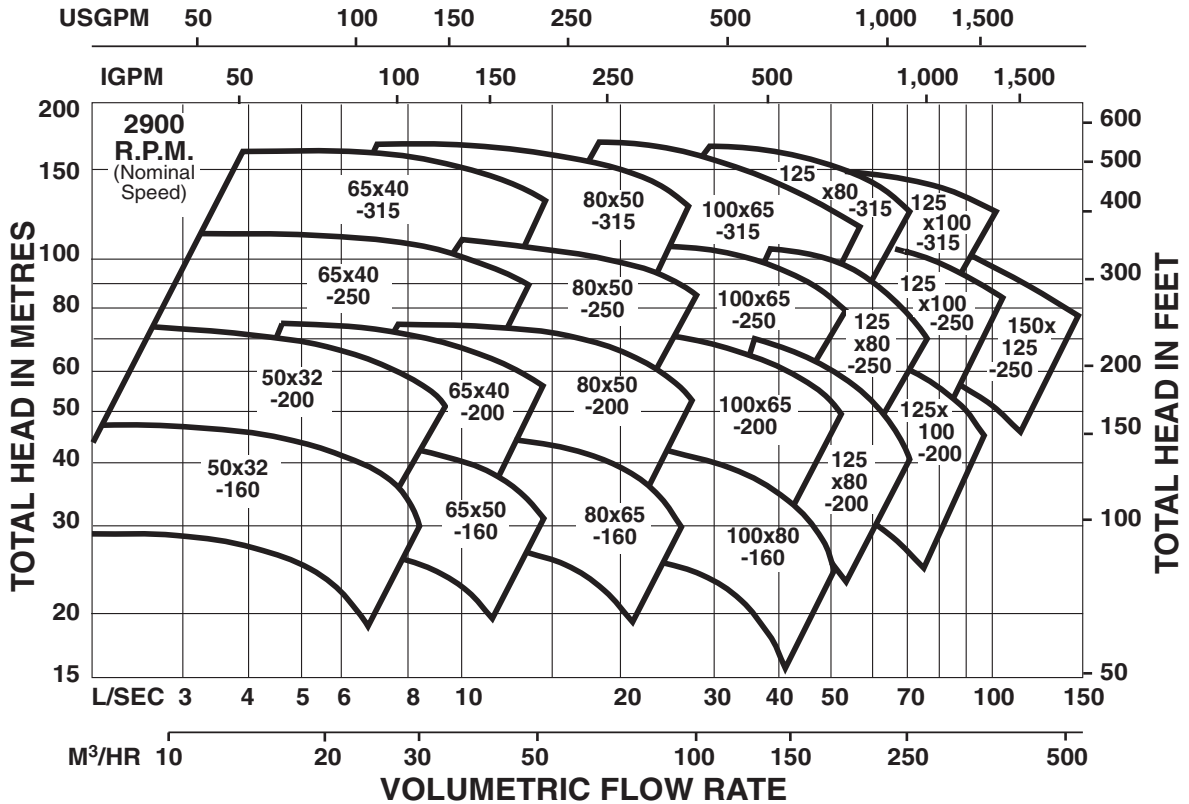
ISO-PRO SELECTION CHART
1450 / 2900 R.P.M.

CENTRIFUGAL PUMP PERFORMANCE DATA

Click in red rectangle for direct link to detailed pump performance curve for selected pump



Click in red rectangle for direct link to detailed pump performance curve for selected pump



Performance to AS2417 Grade 2 for clean, cold water only.

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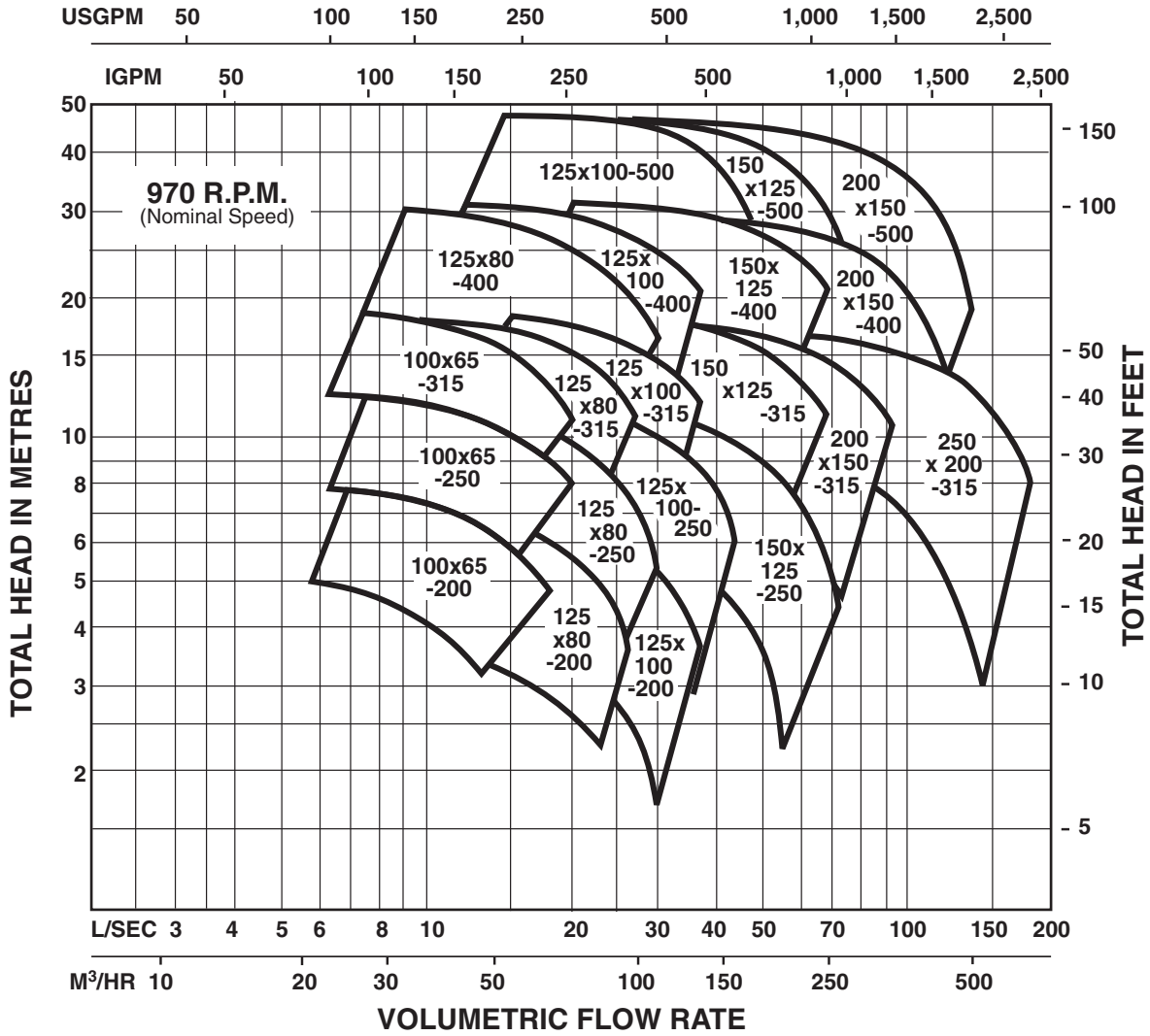
SELECTION CHART

970 R.P.M.



CENTRIFUGAL PUMP PERFORMANCE DATA

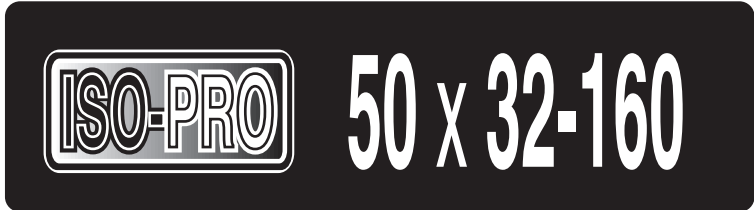
Click in red rectangle for direct link to detailed pump performance curve for selected pump



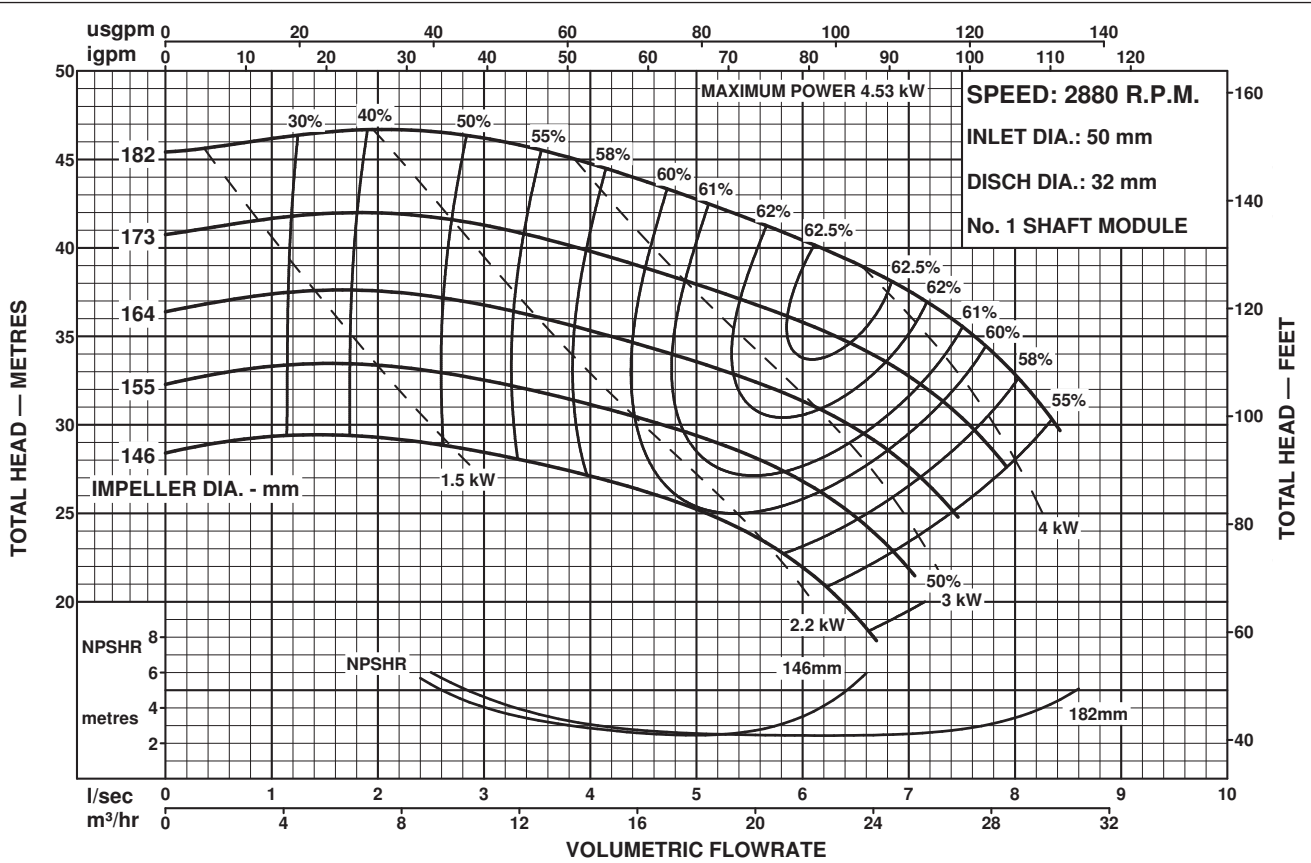
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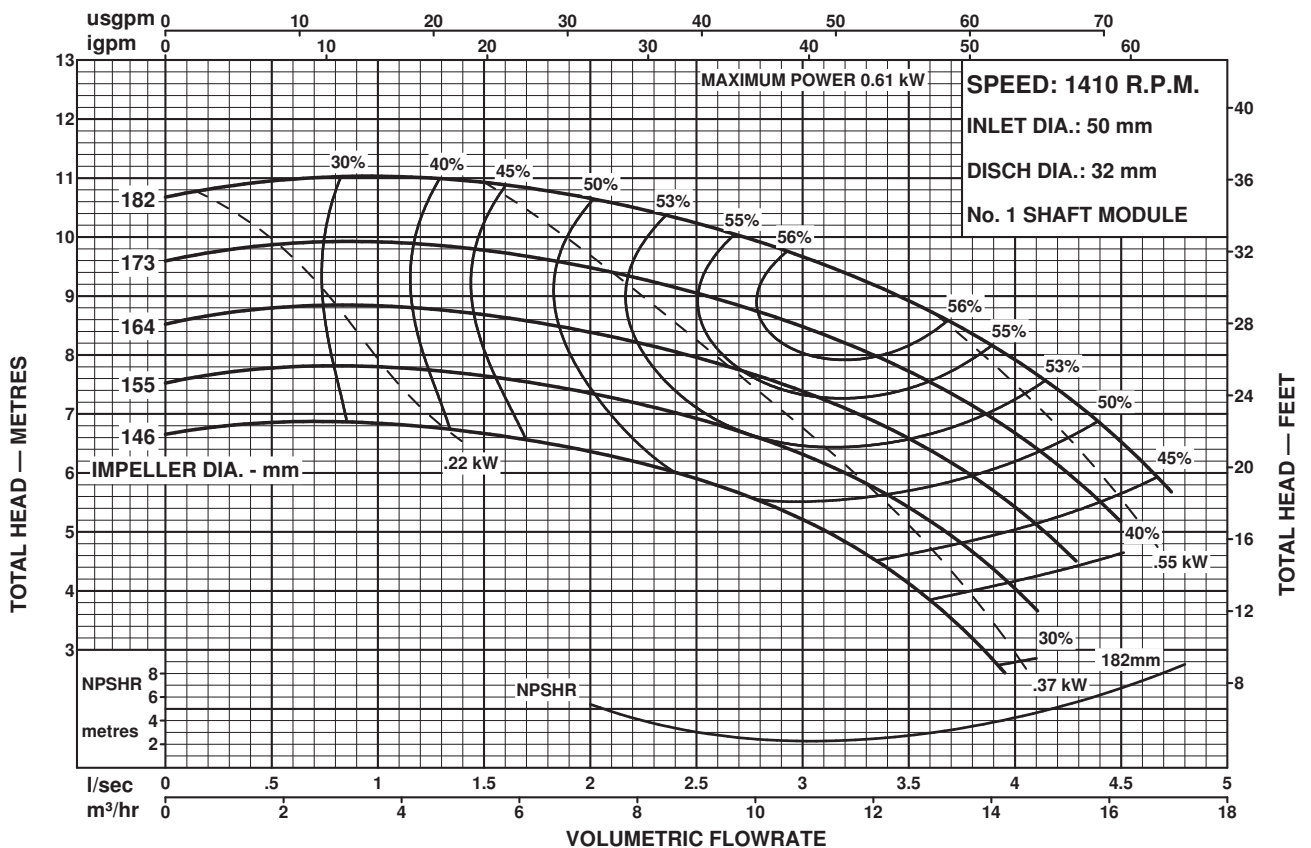


CENTRIFUGAL PUMP PERFORMANCE DATA



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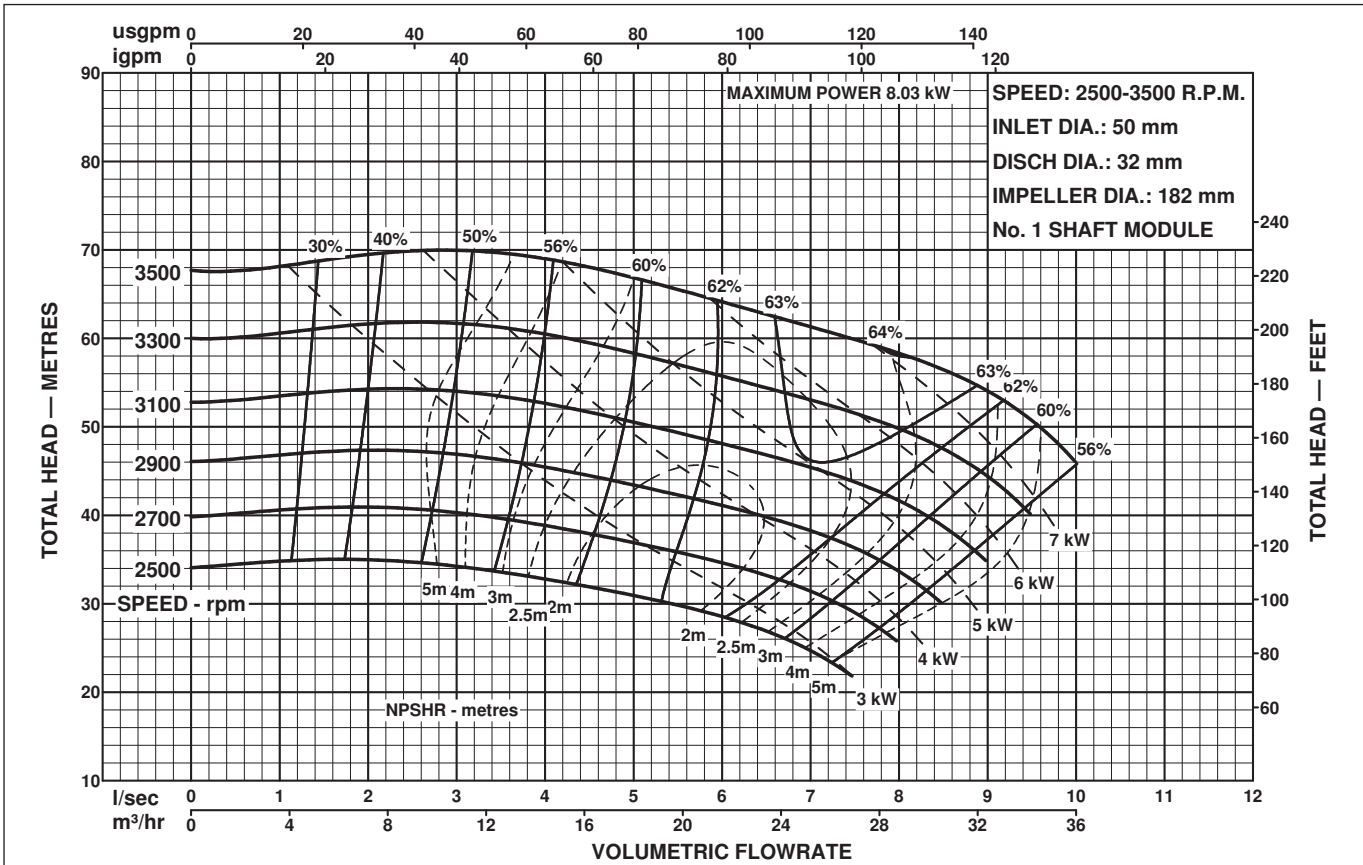
May 2005

50 x 32-160

ISO-PRO

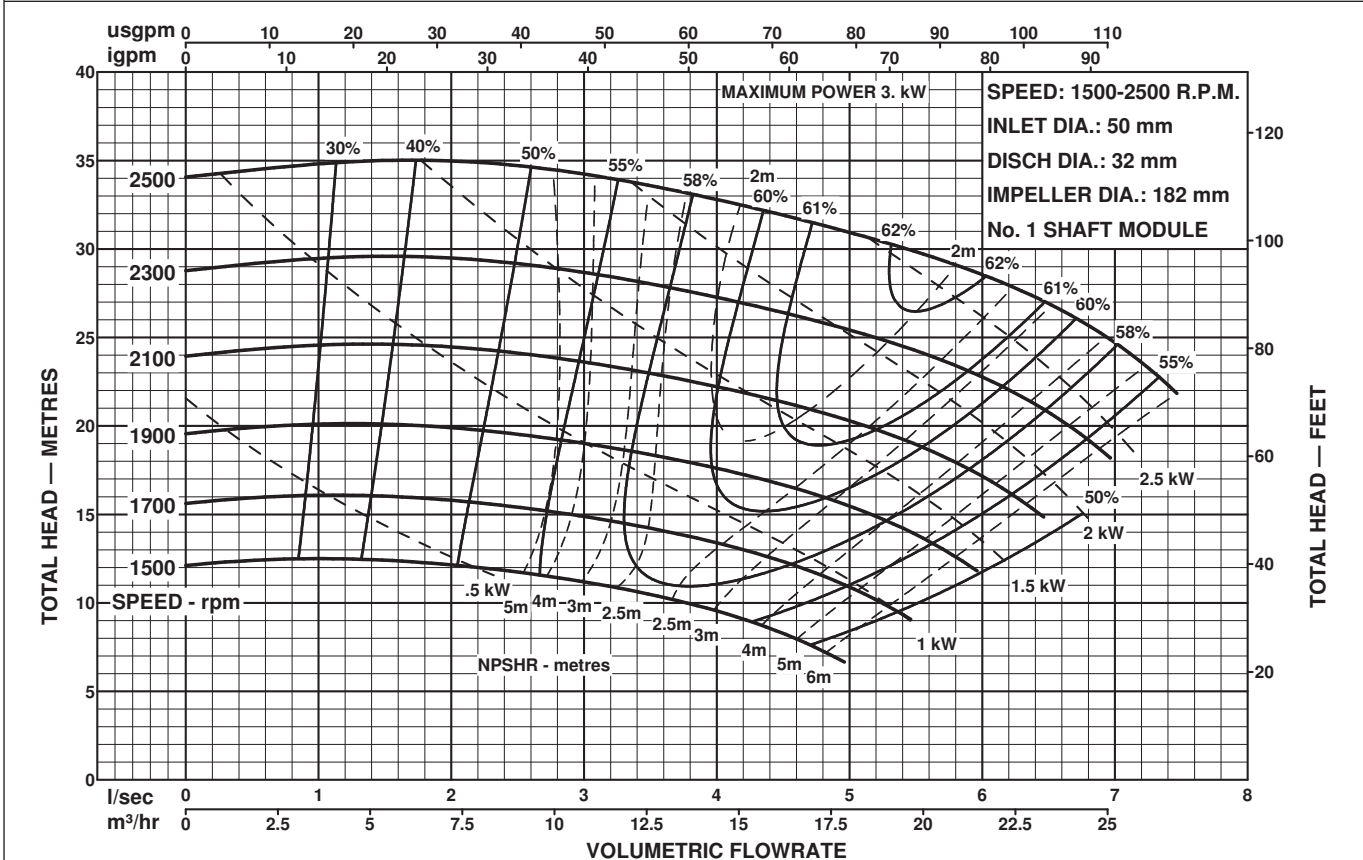


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May 2005



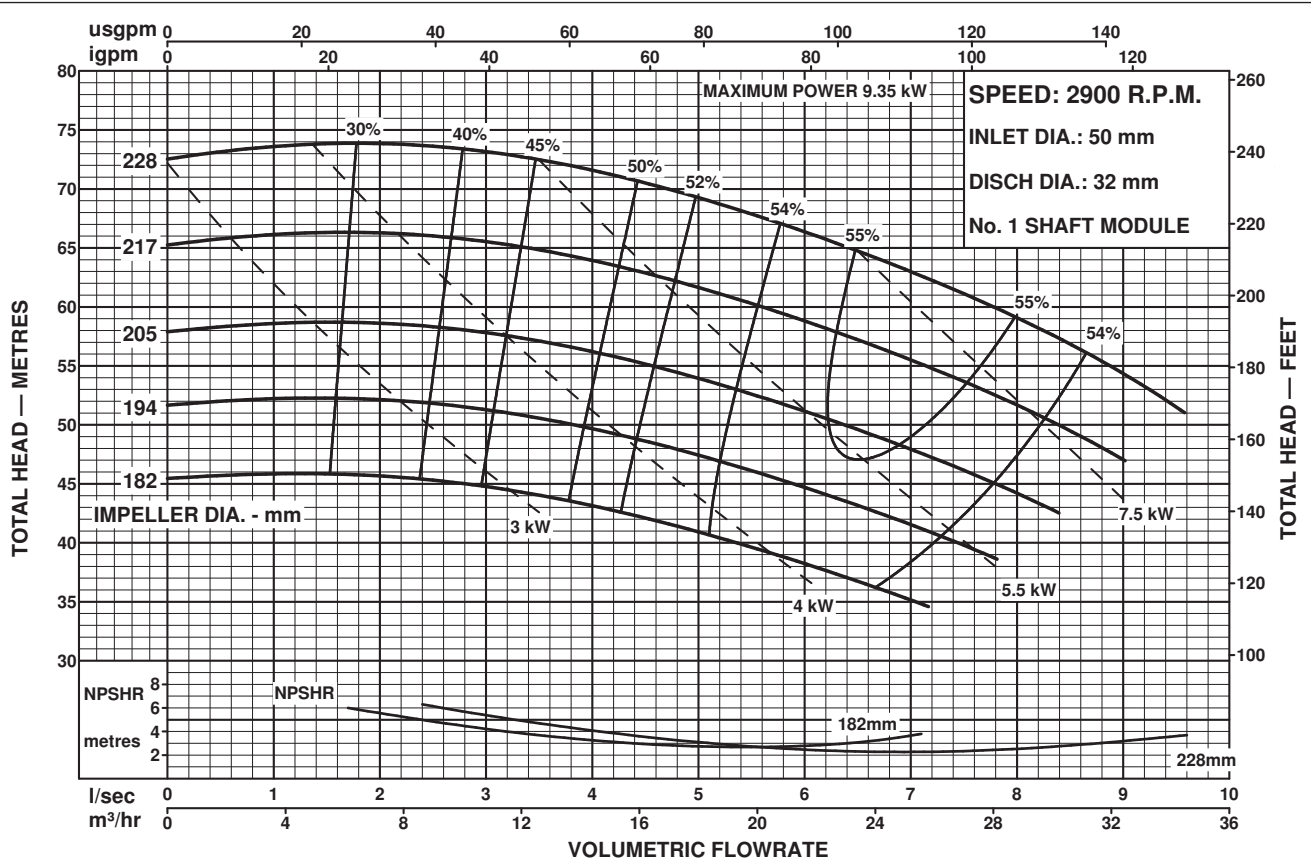
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May 2005



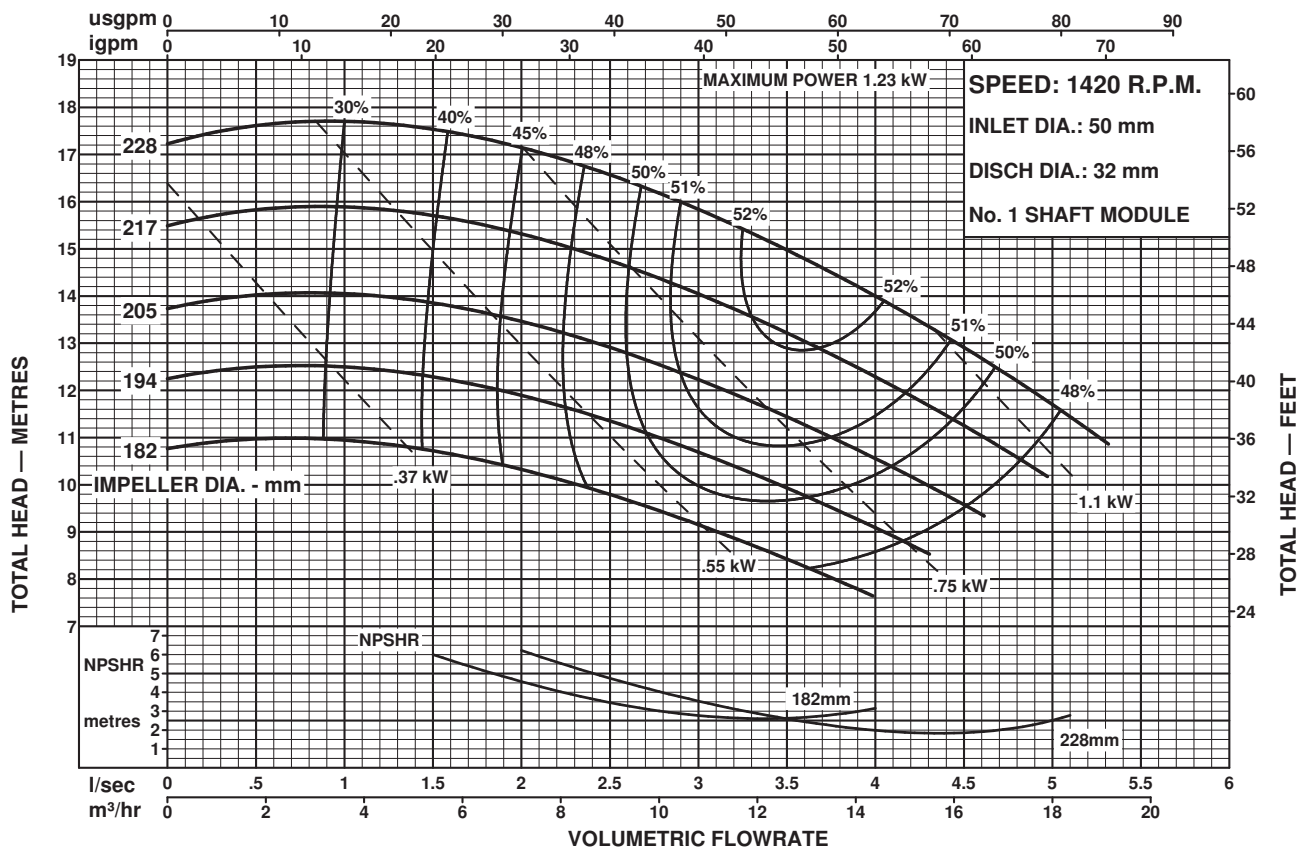
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May 2005



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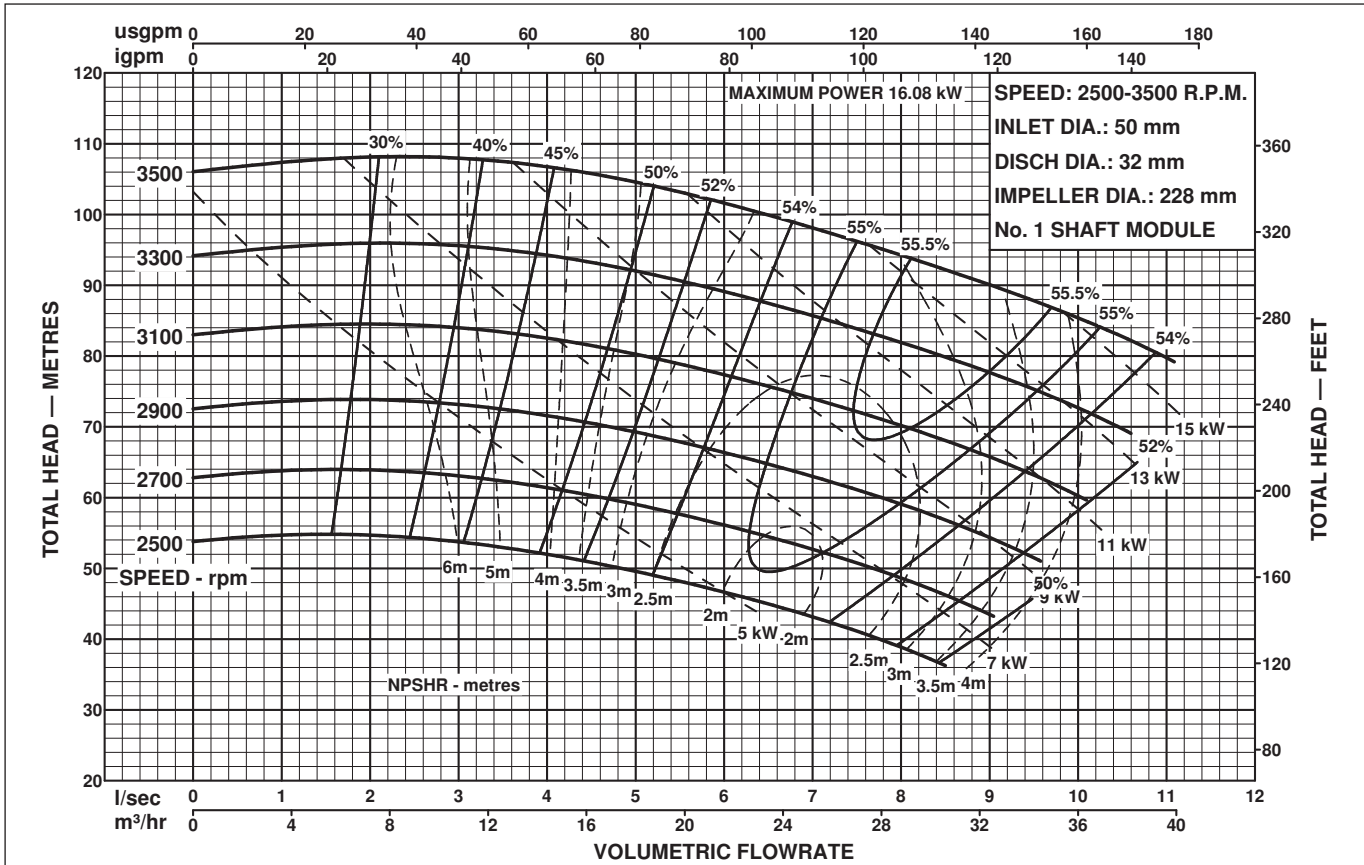
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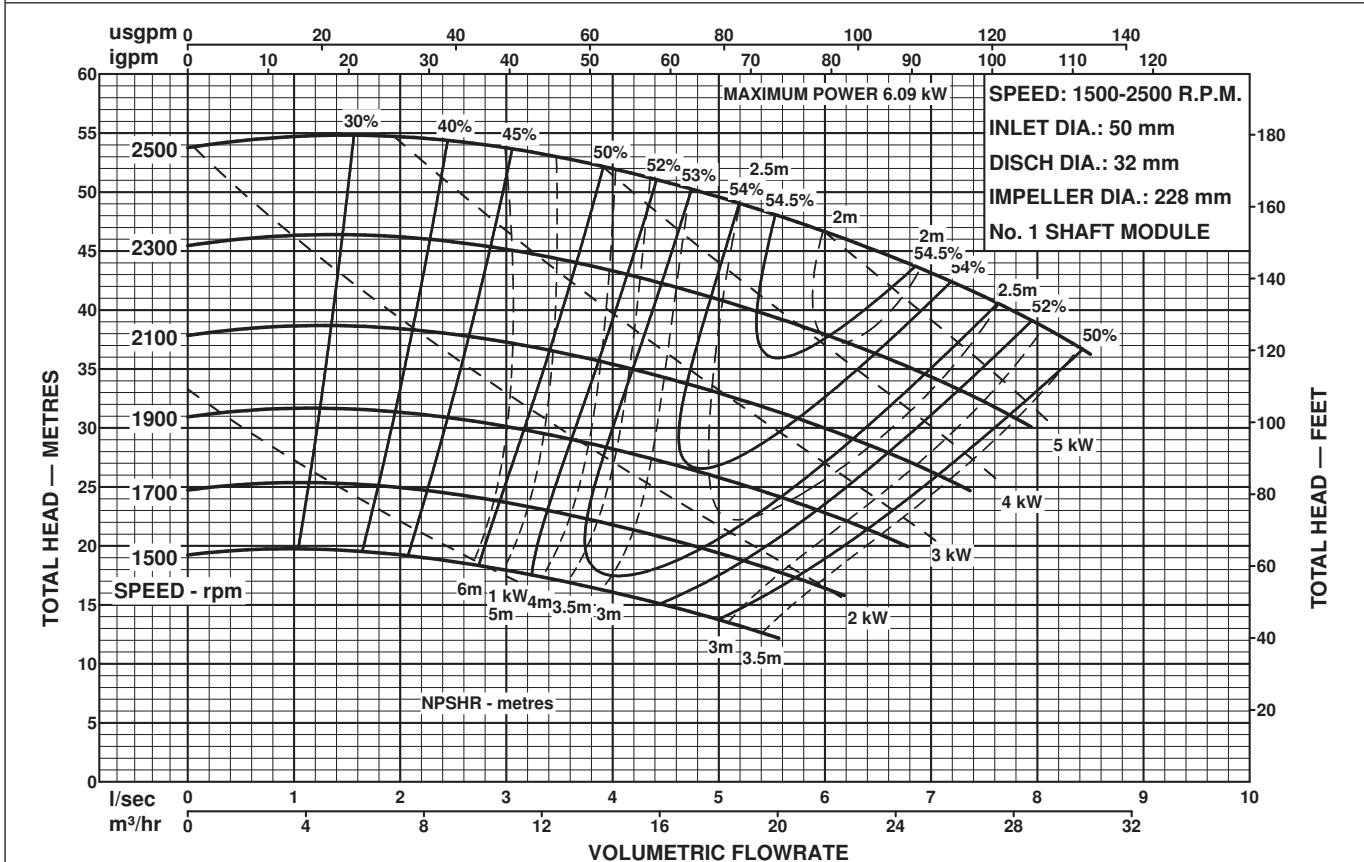


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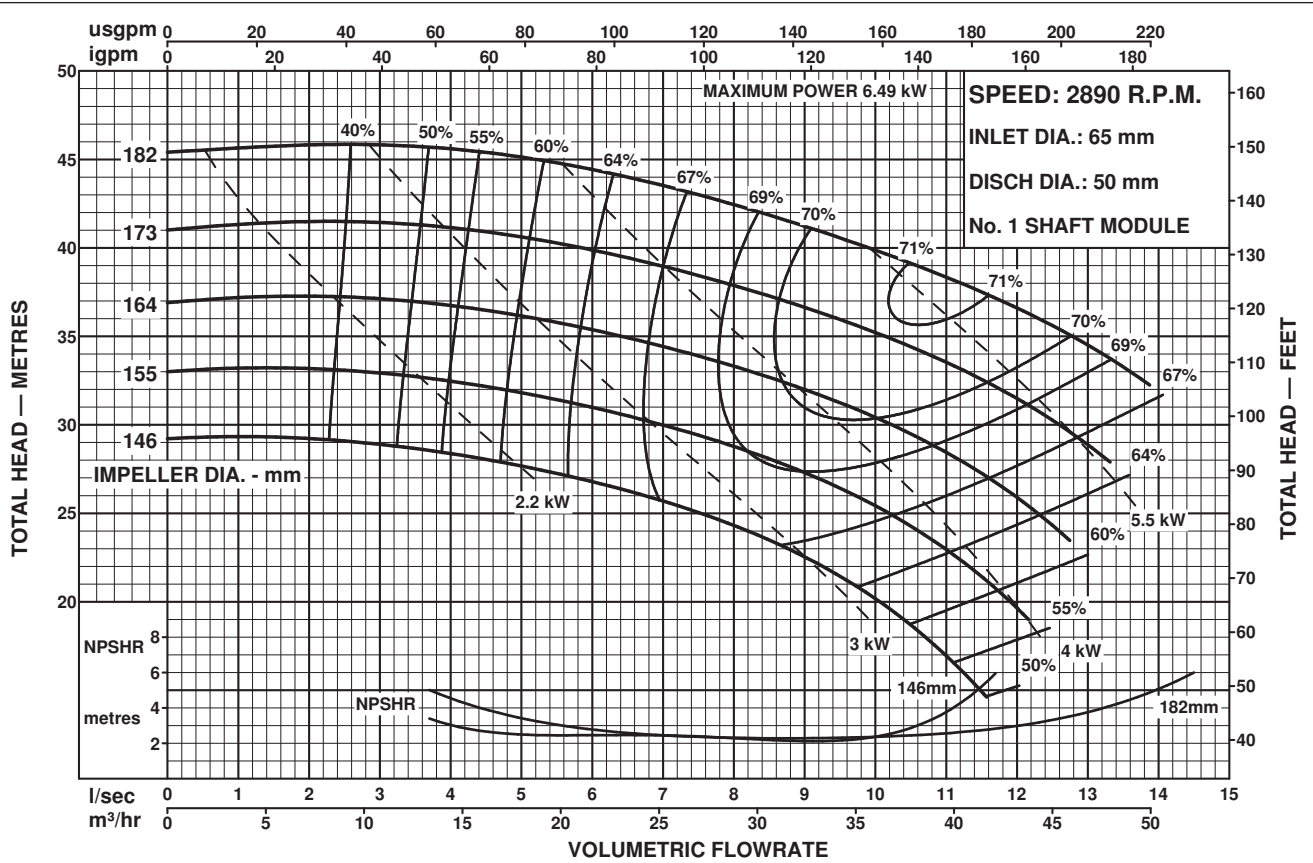
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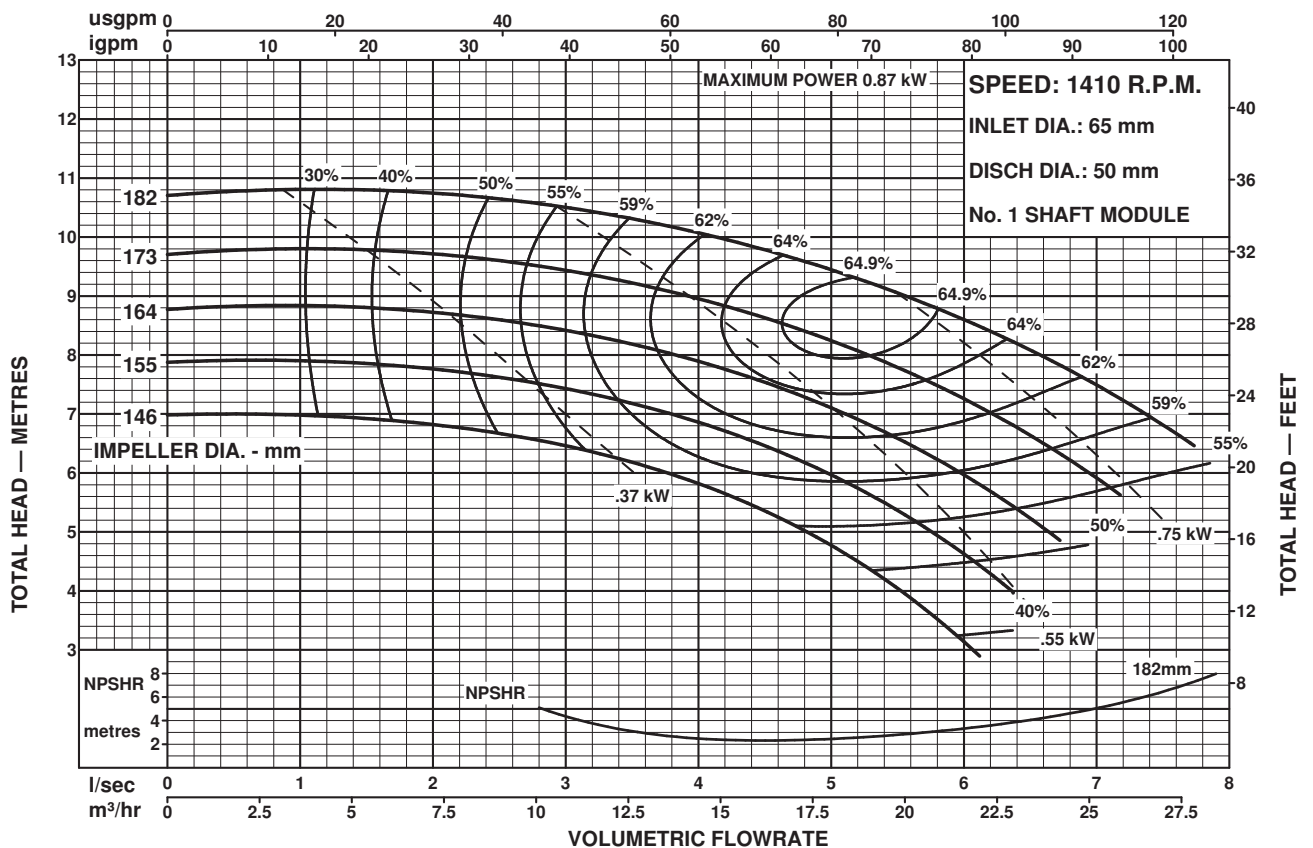
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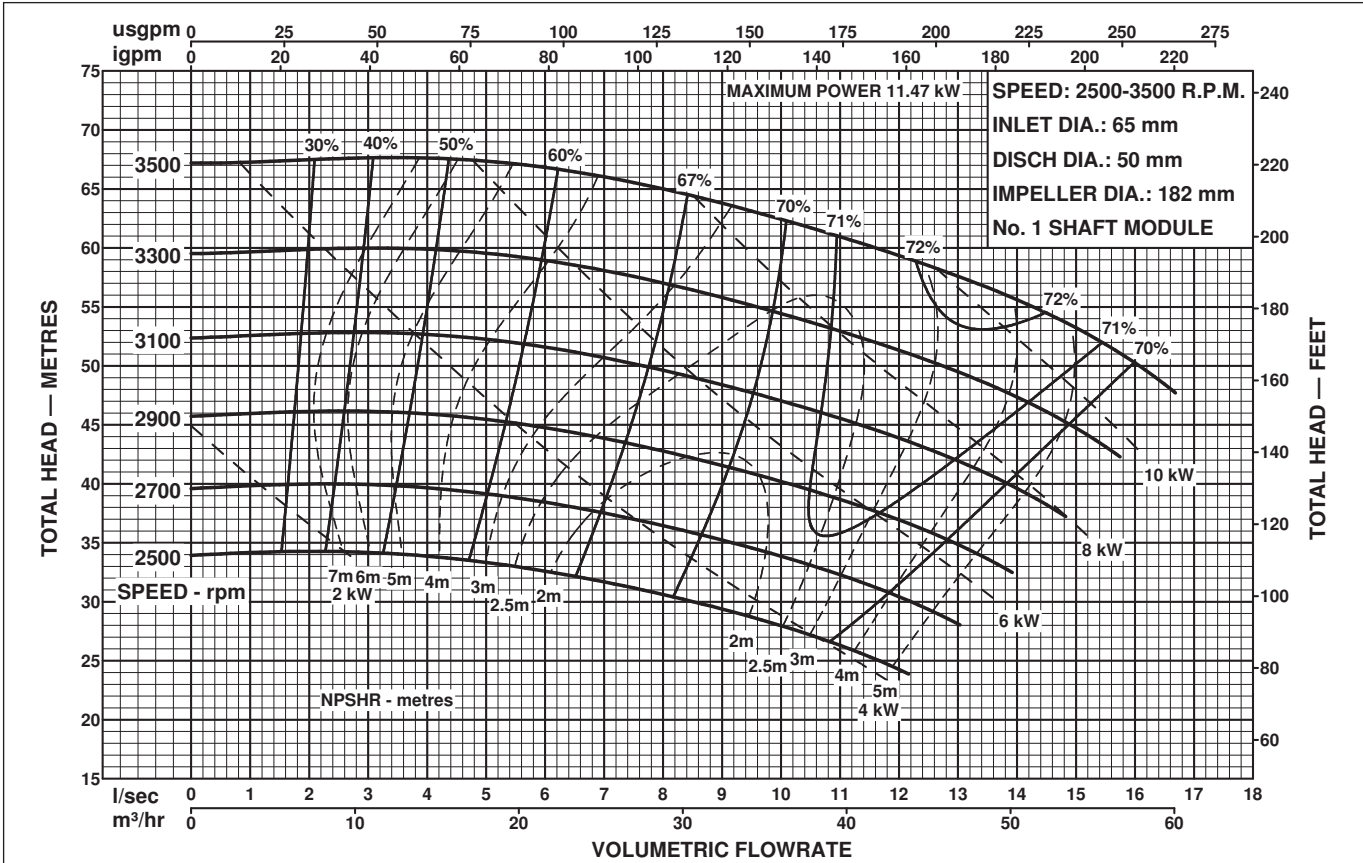
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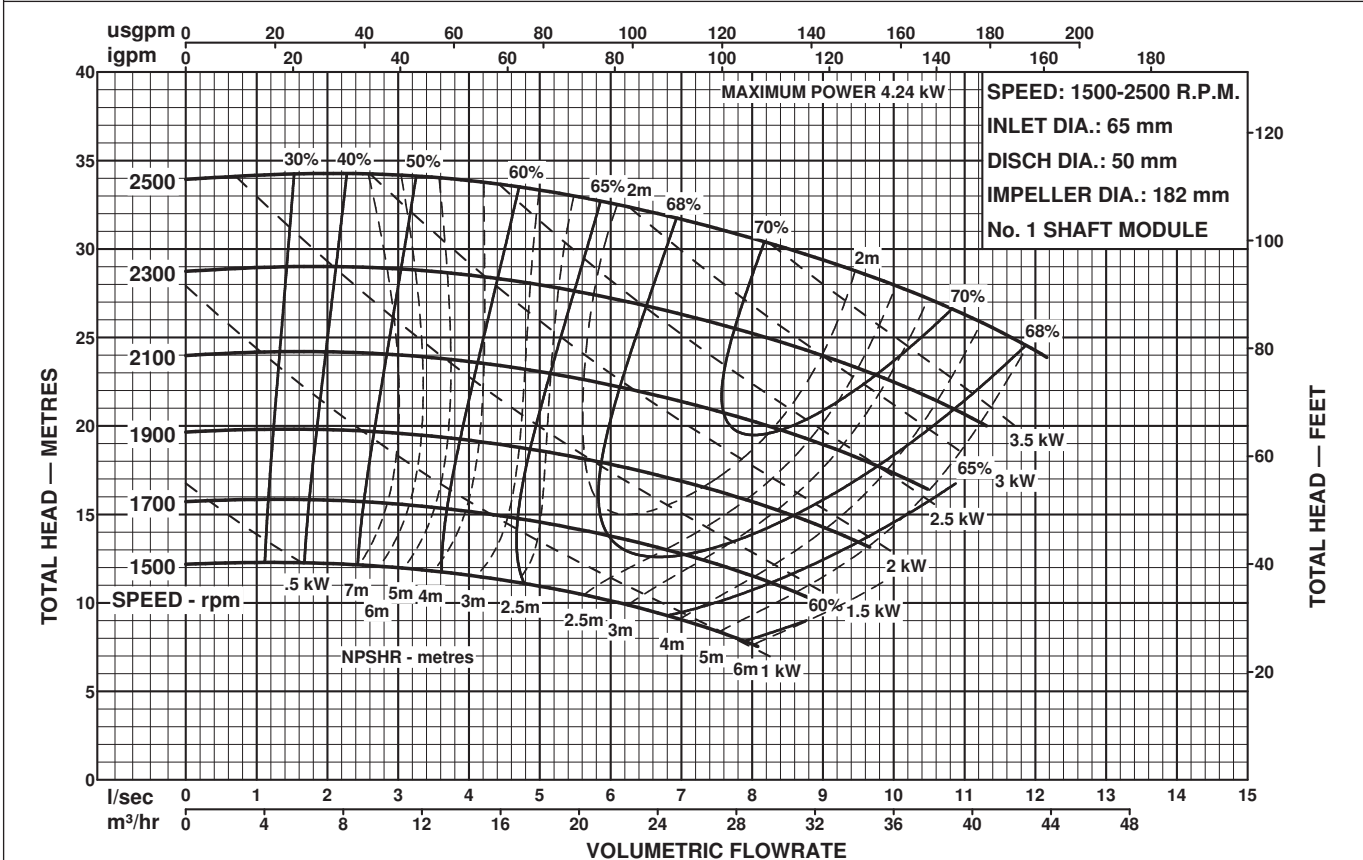


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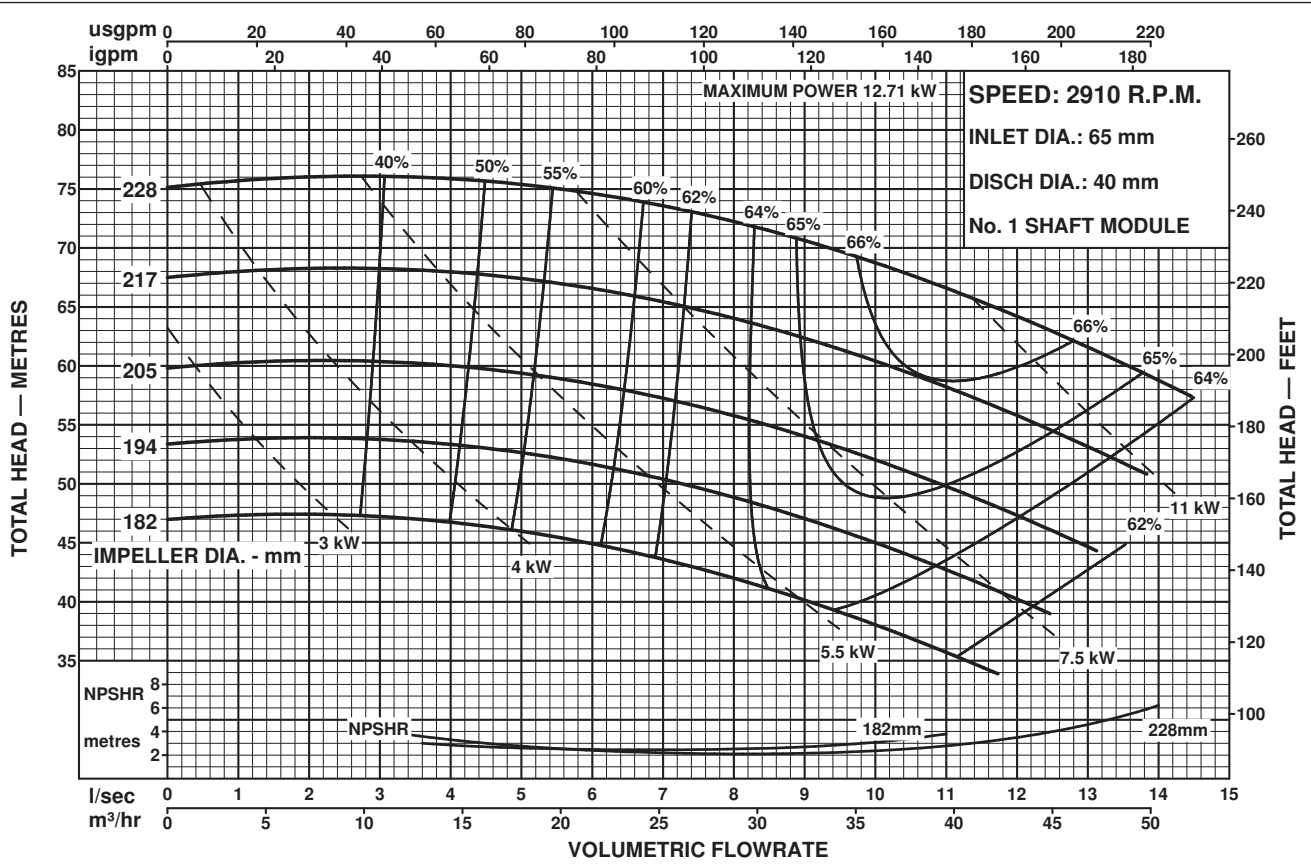
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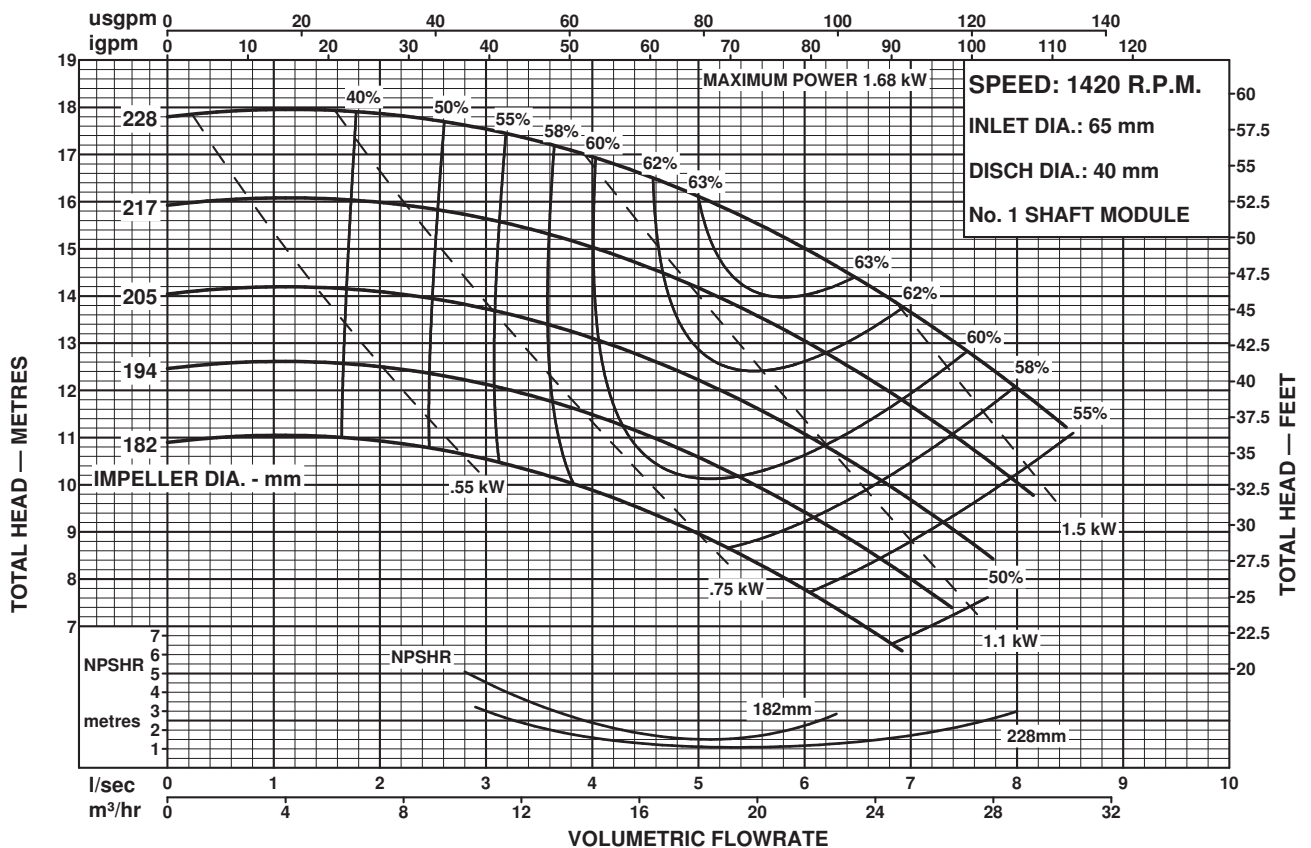
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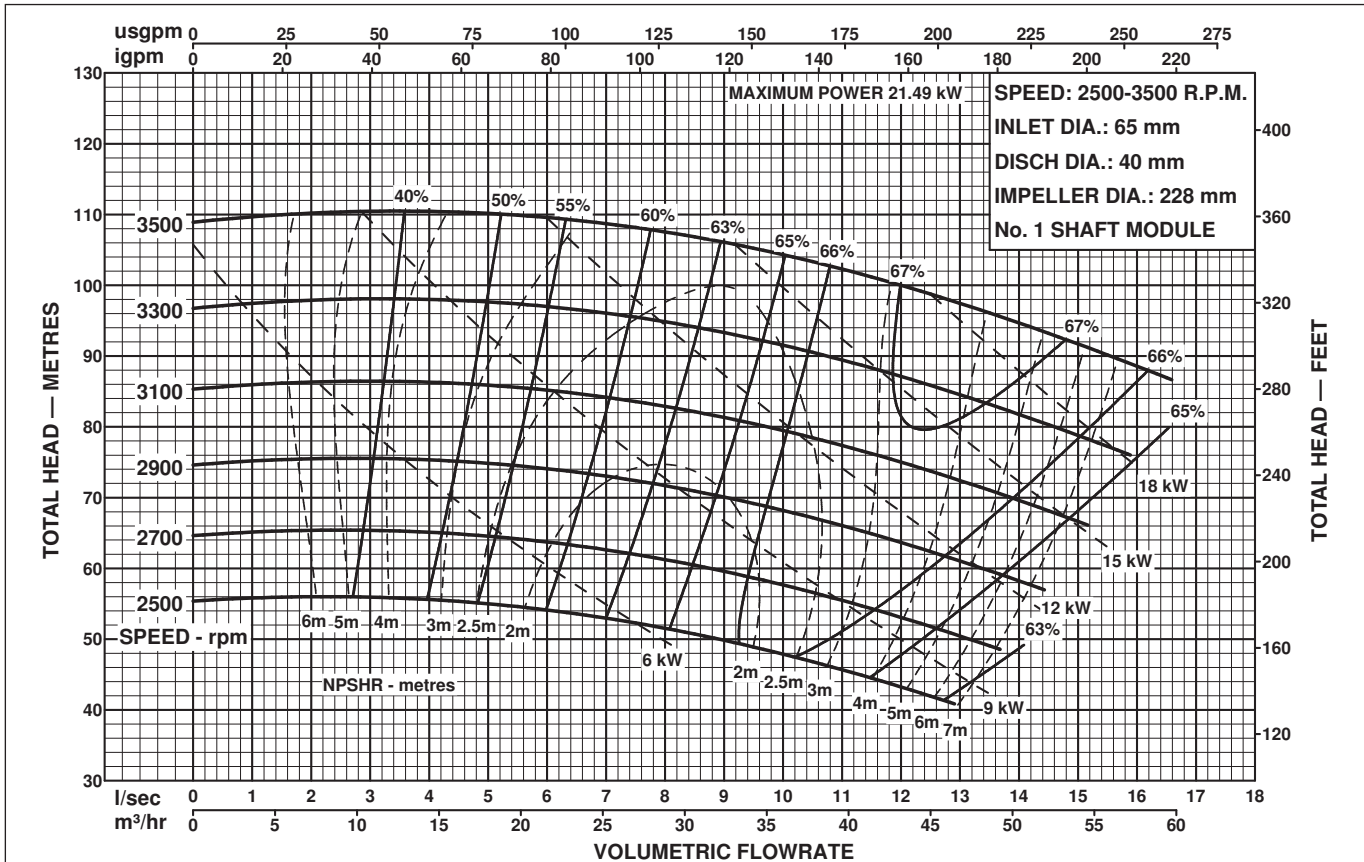
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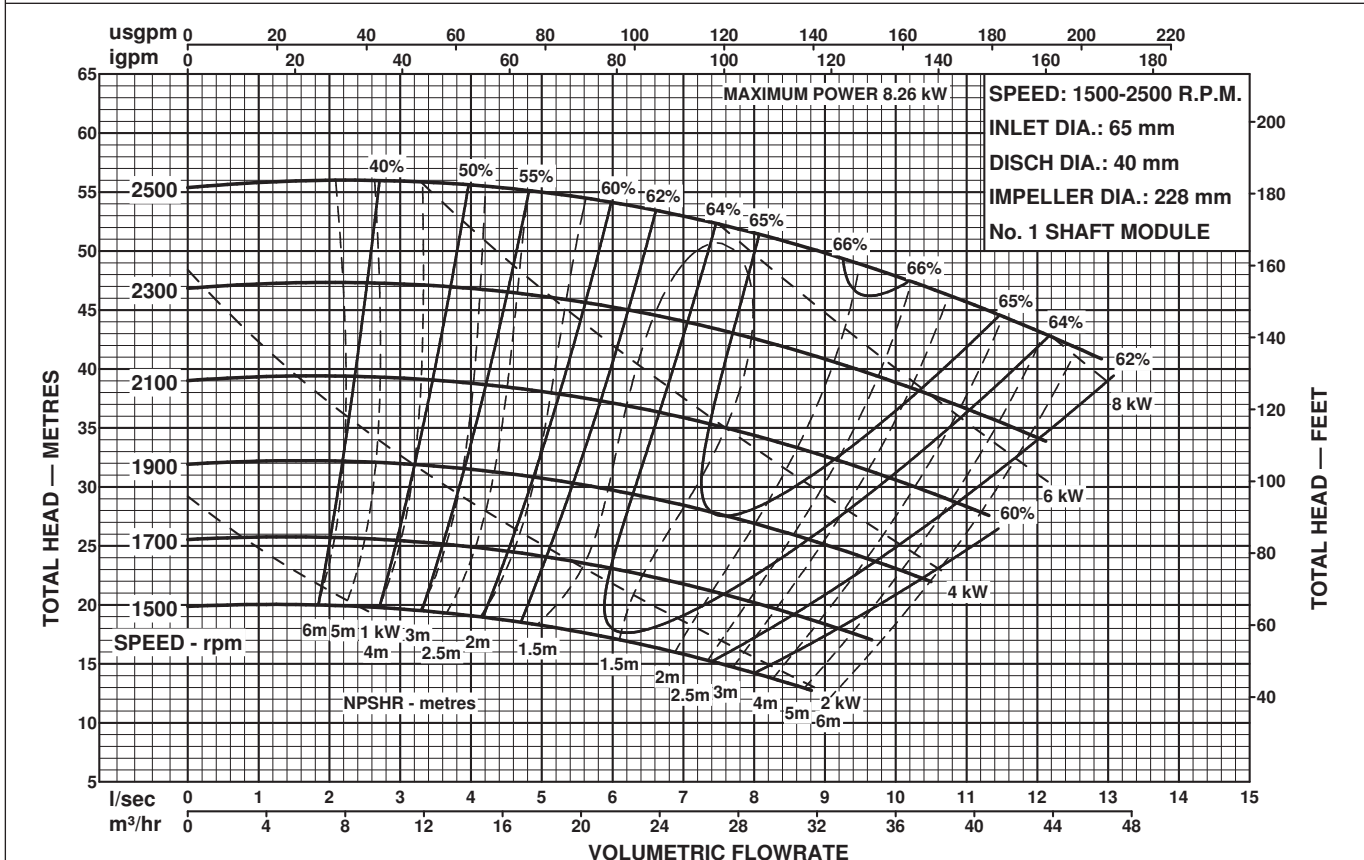


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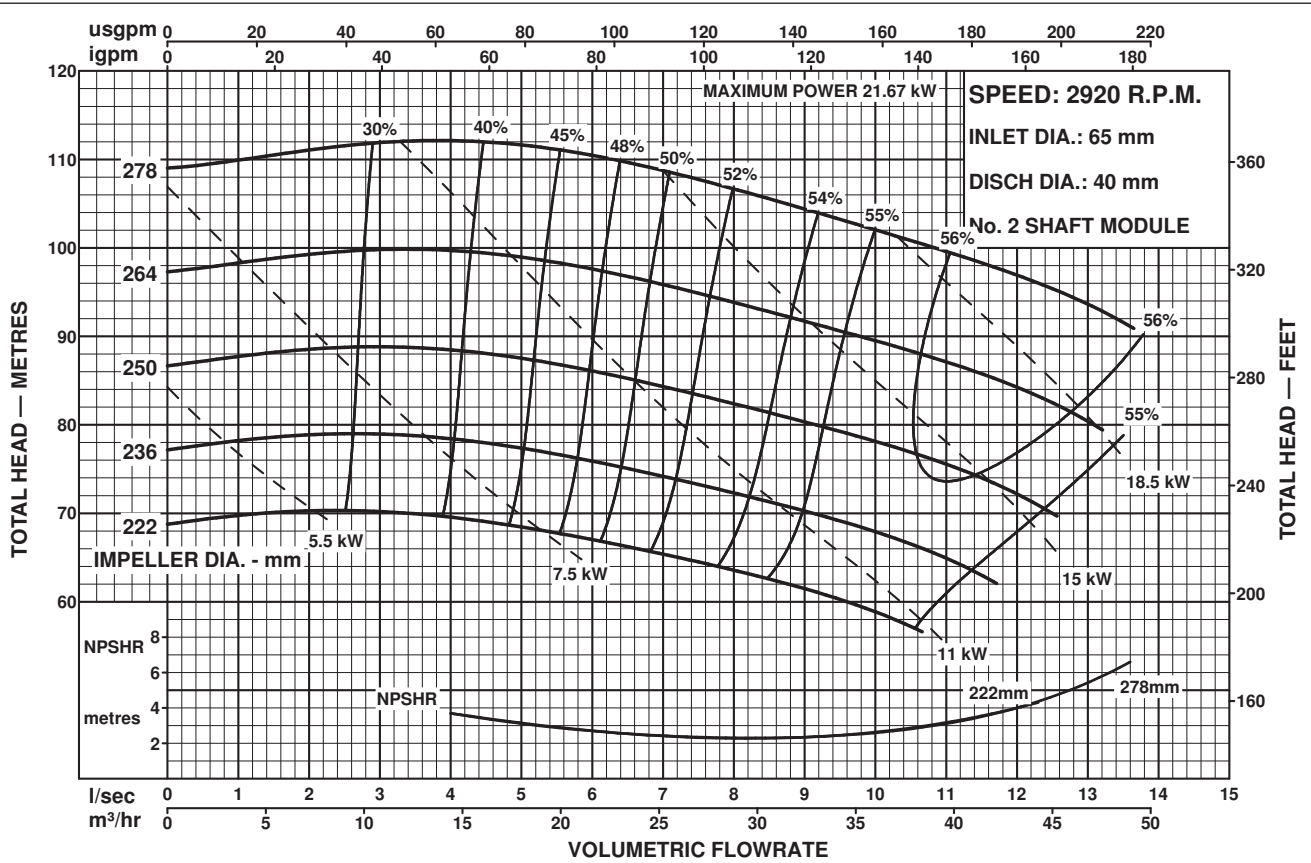
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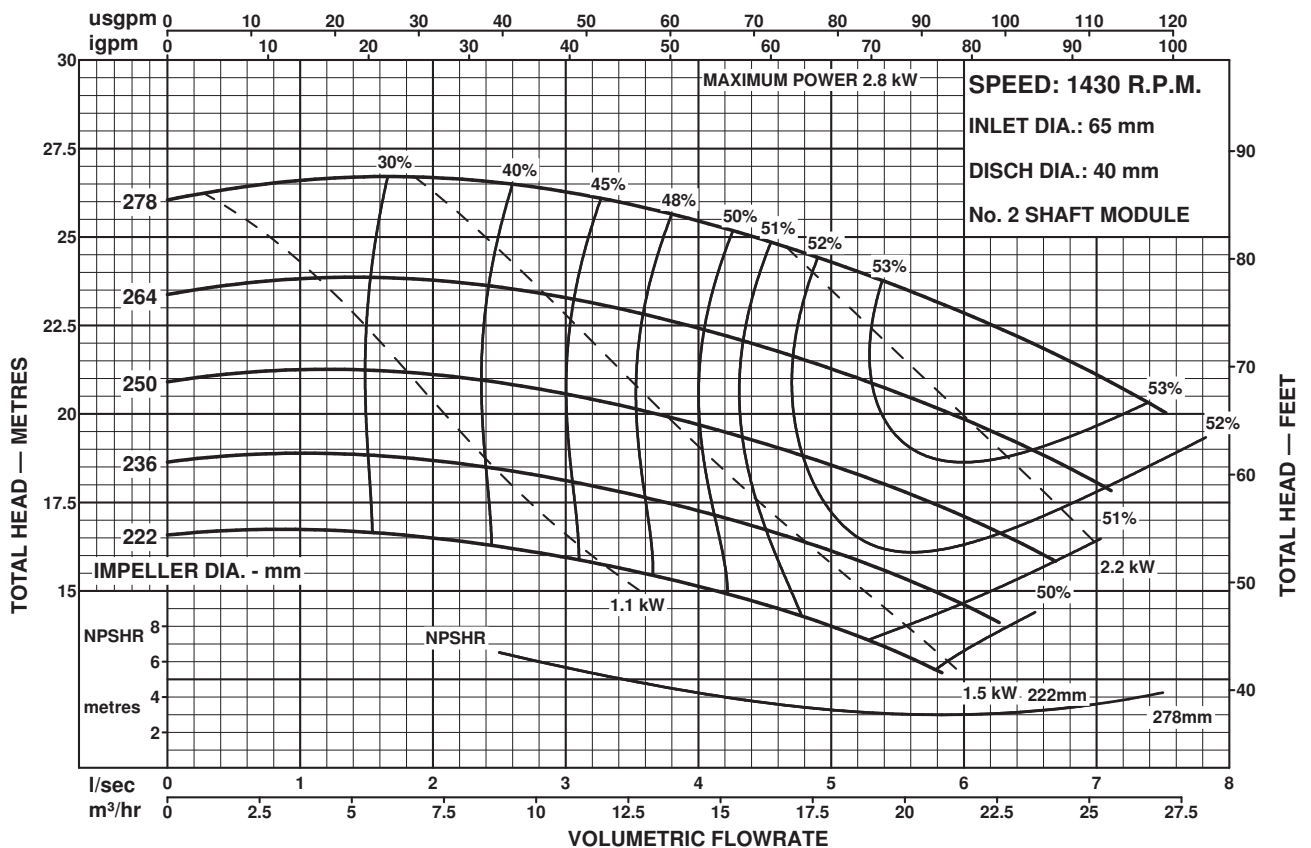
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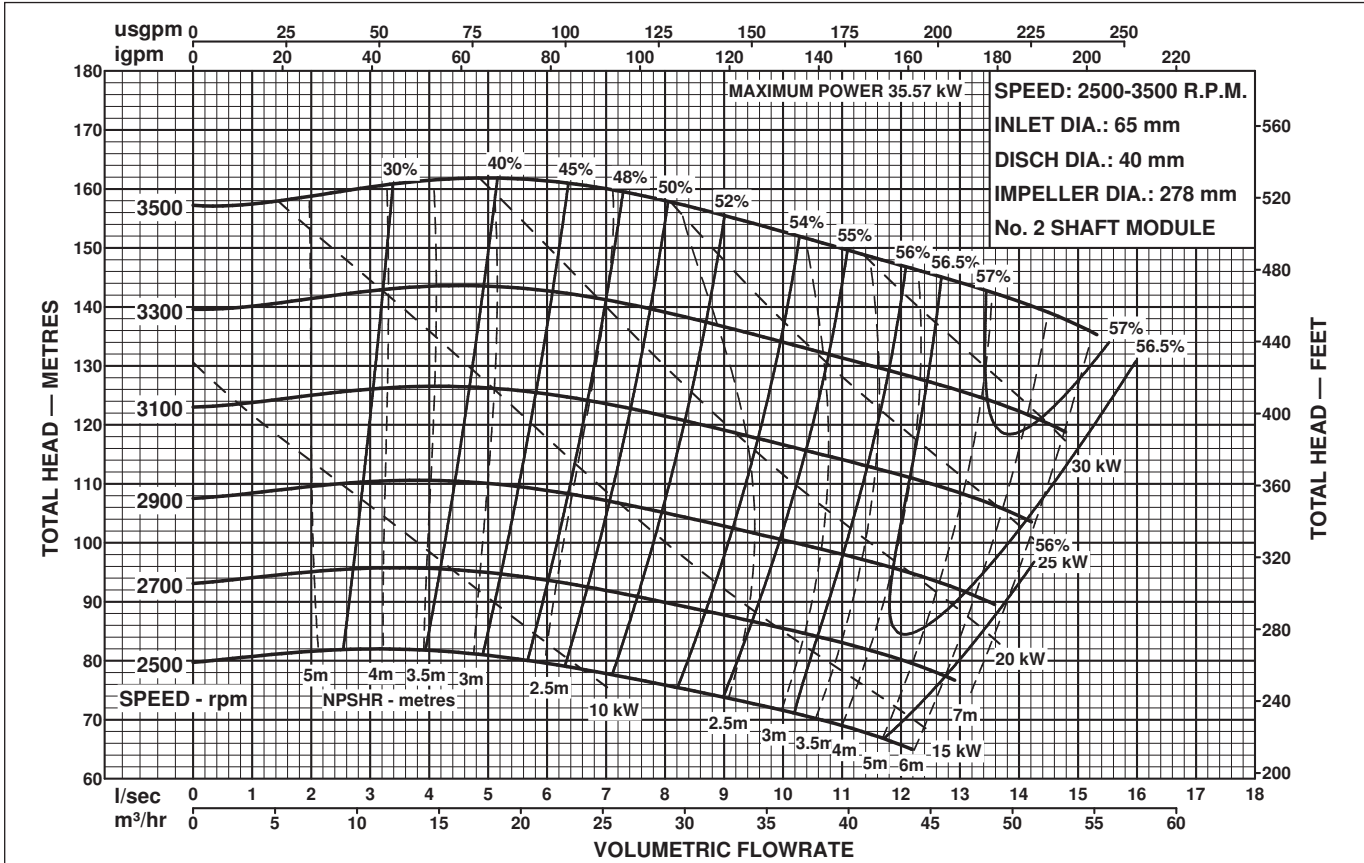
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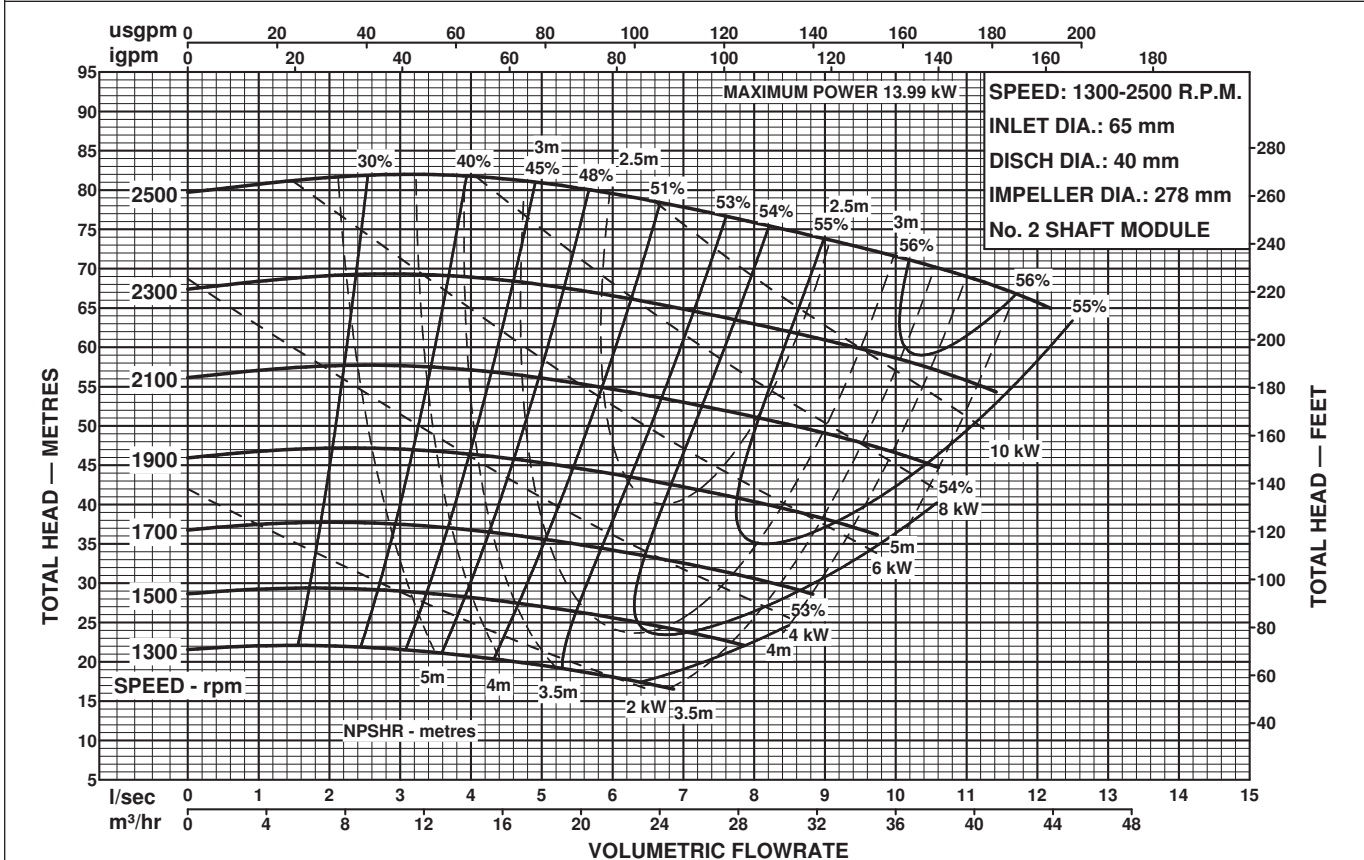


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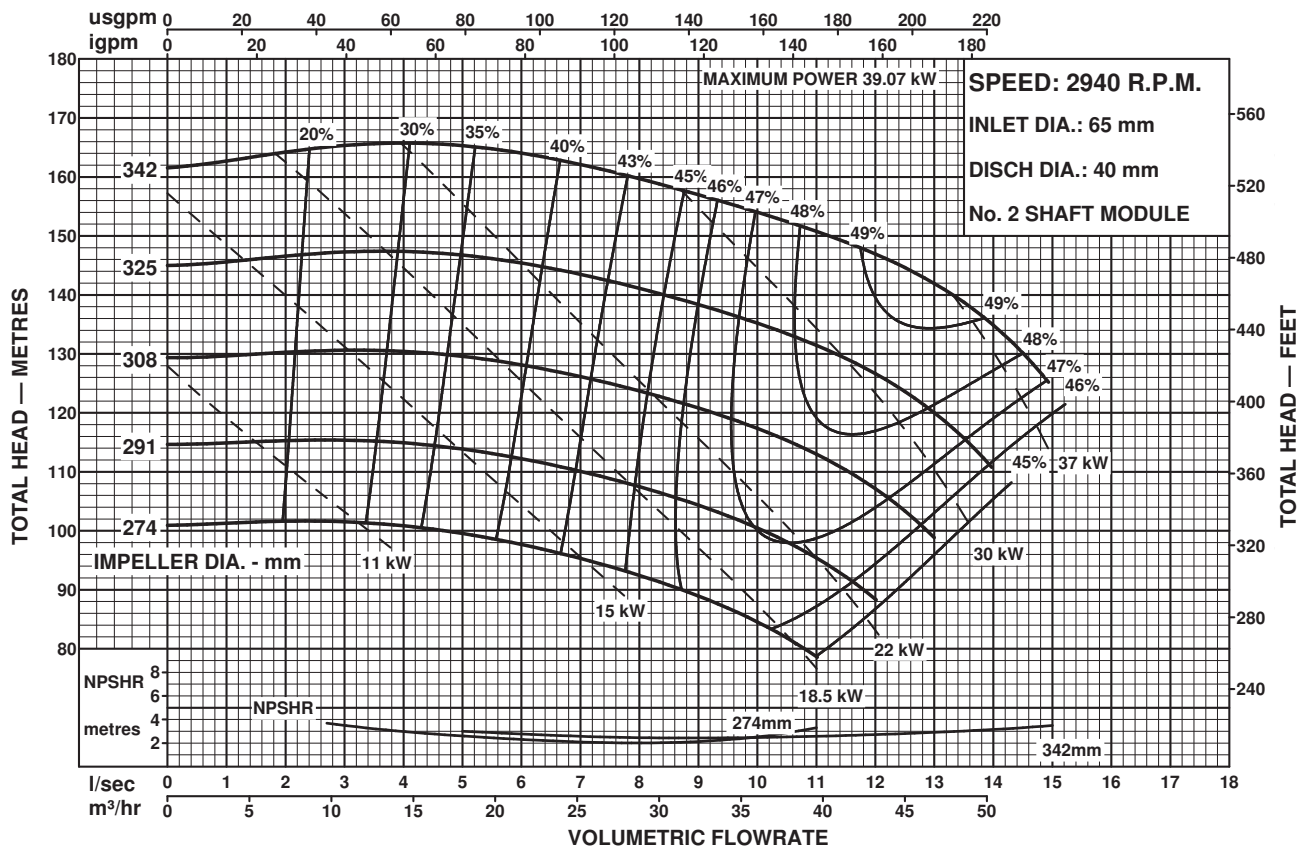
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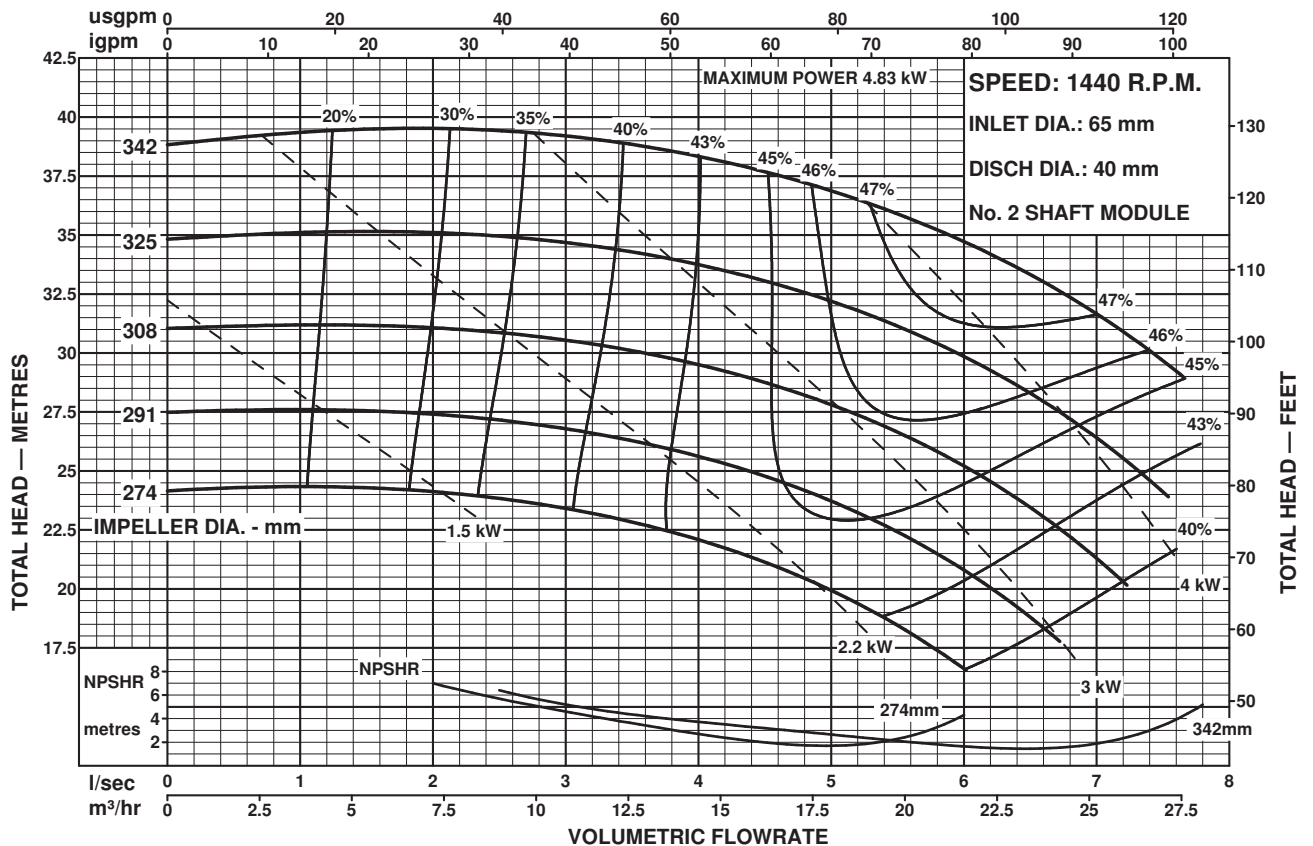
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Performance to AS2417 Grade 2 for clean, cold water only.

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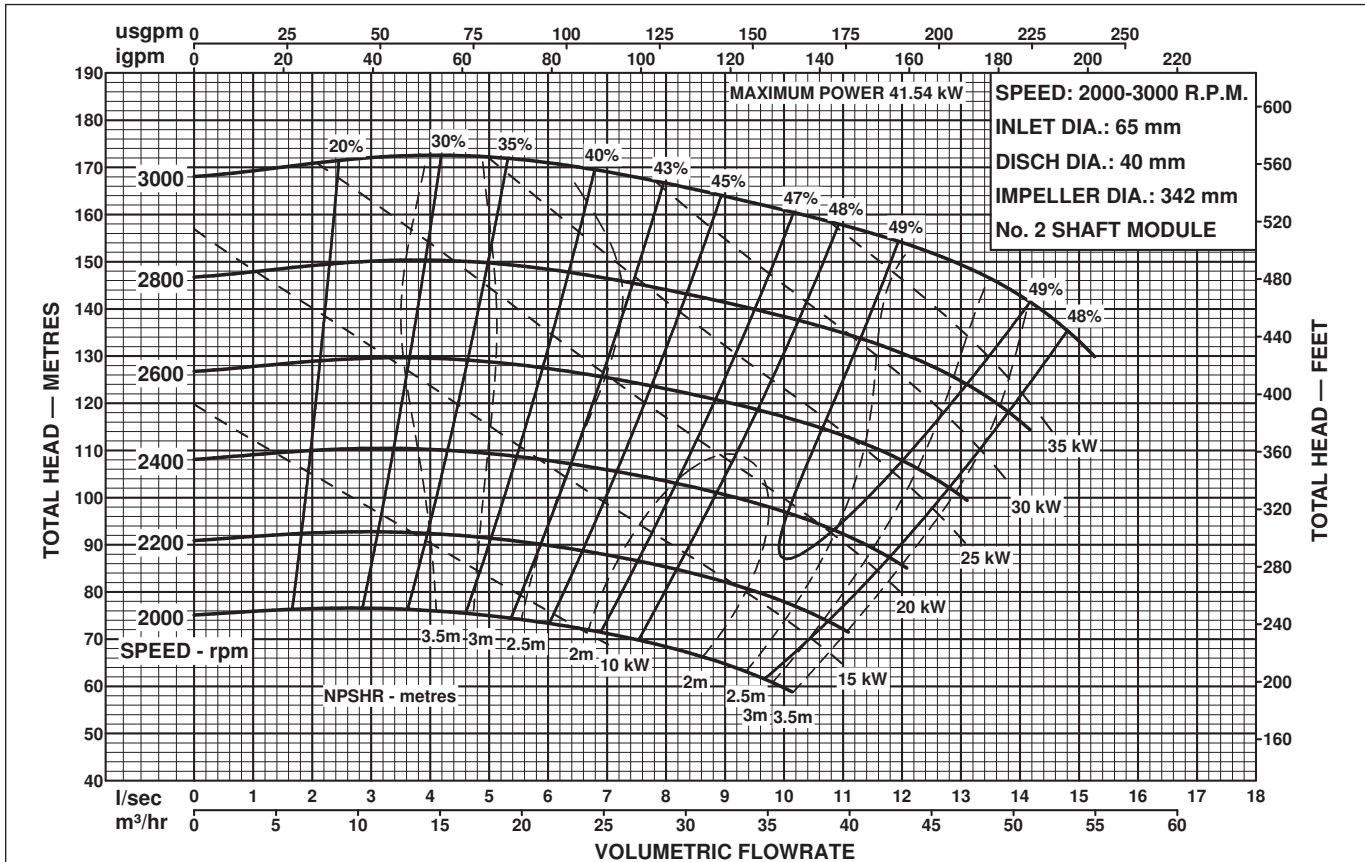
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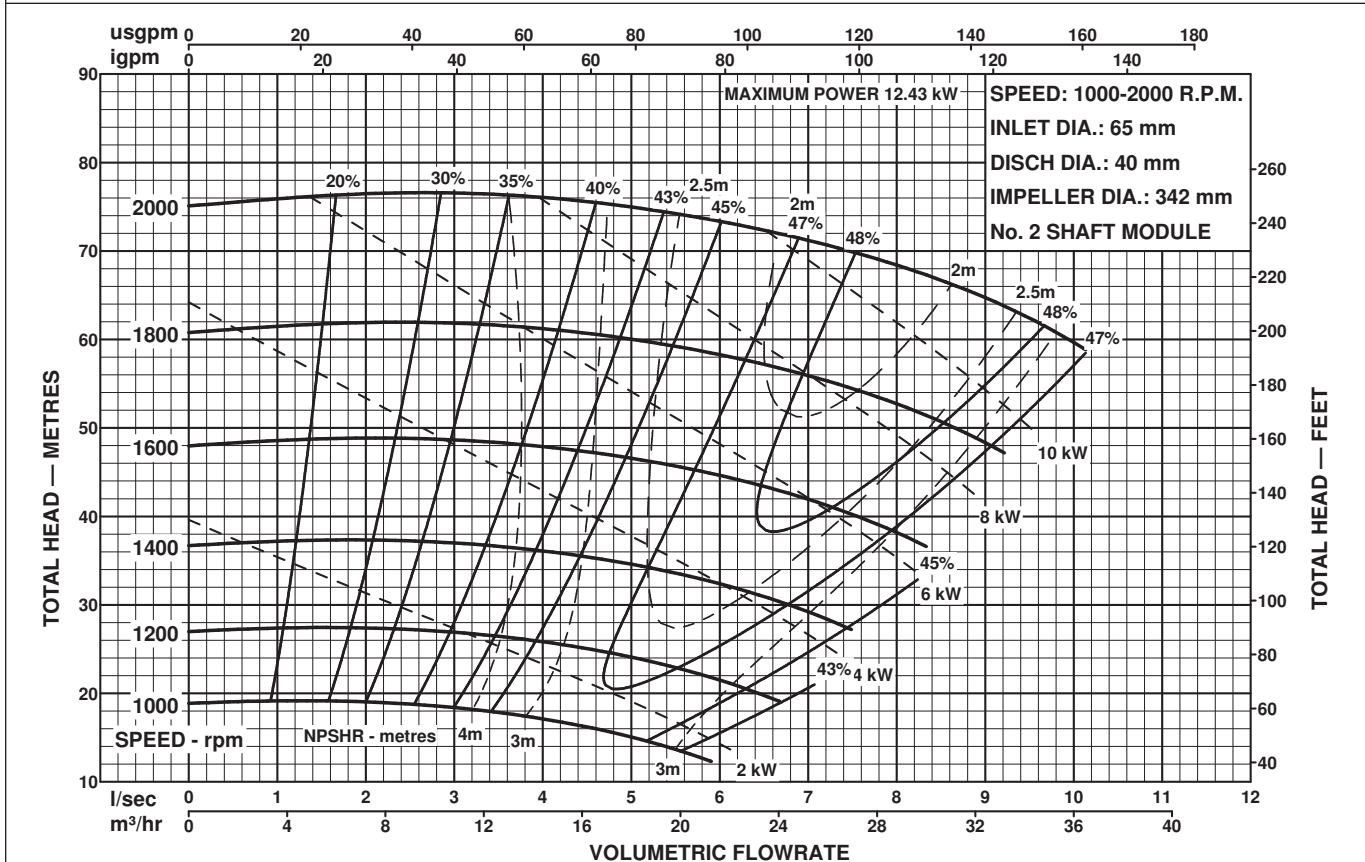


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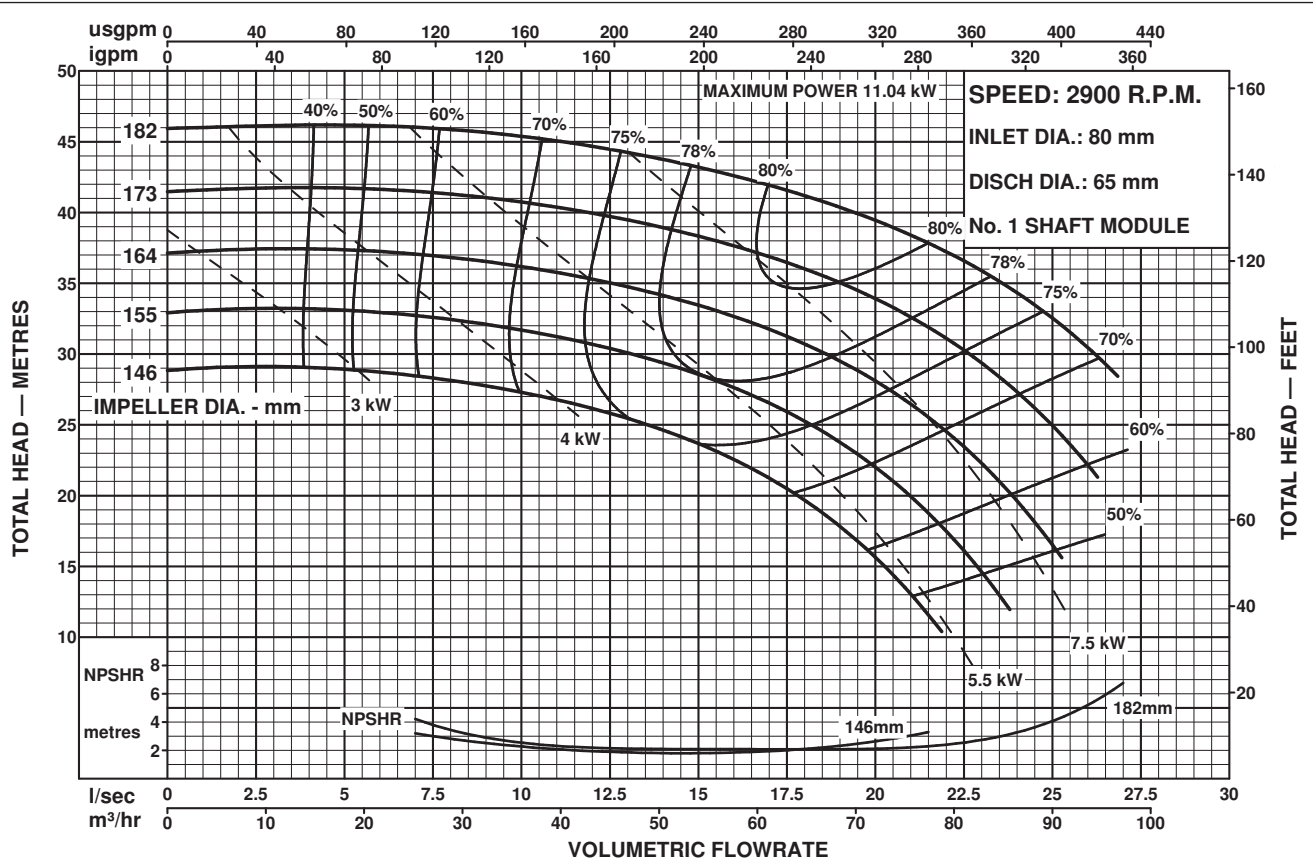
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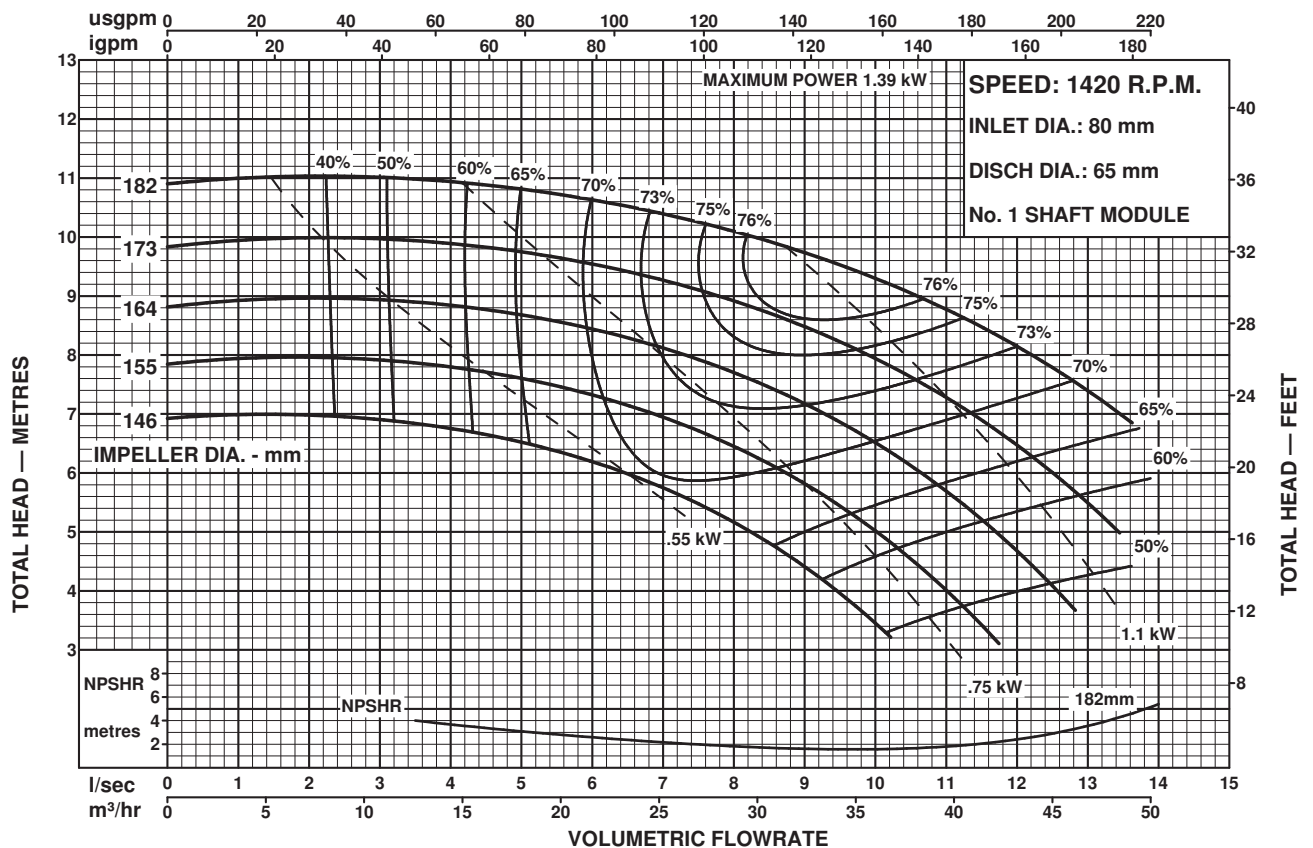
80 x 65-160

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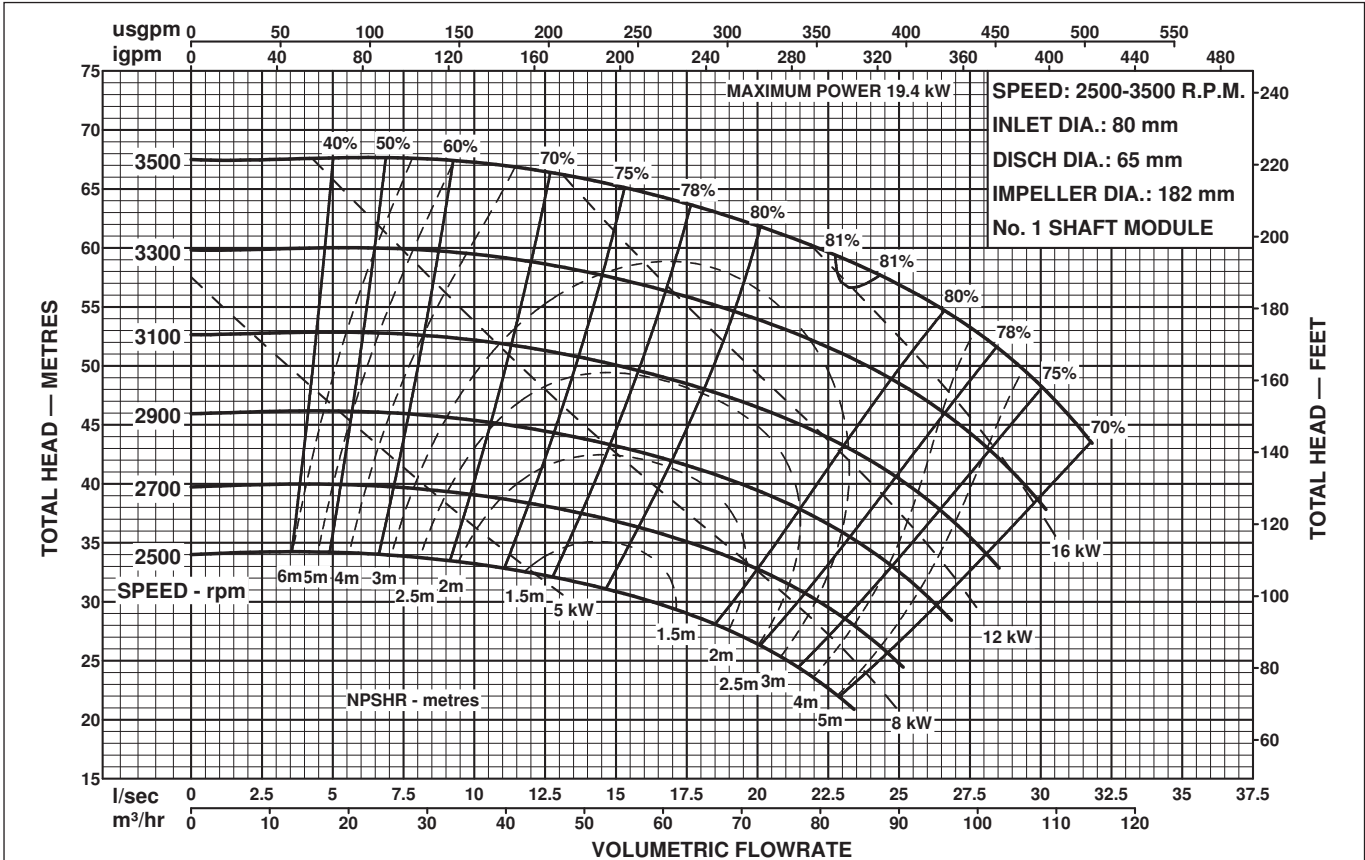
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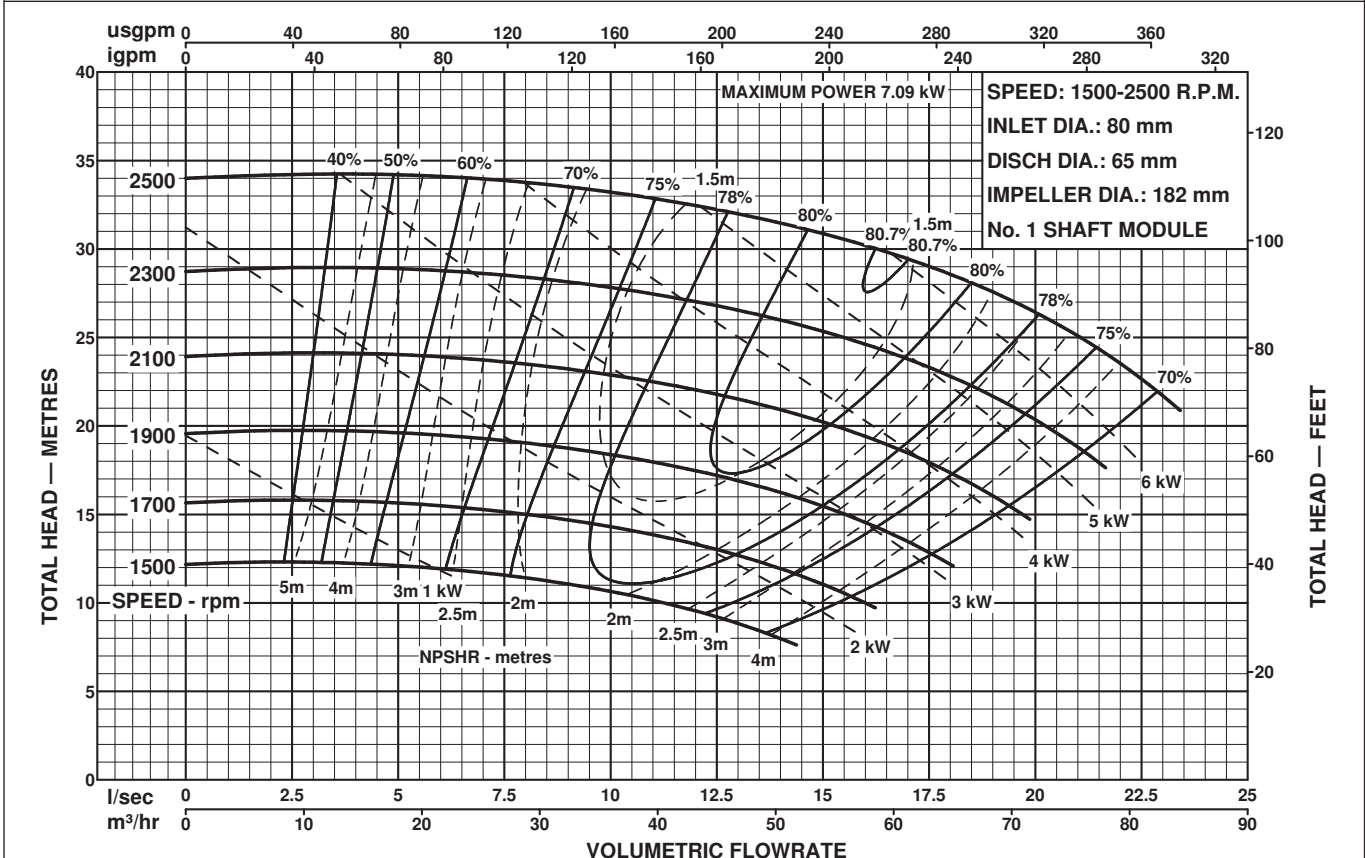


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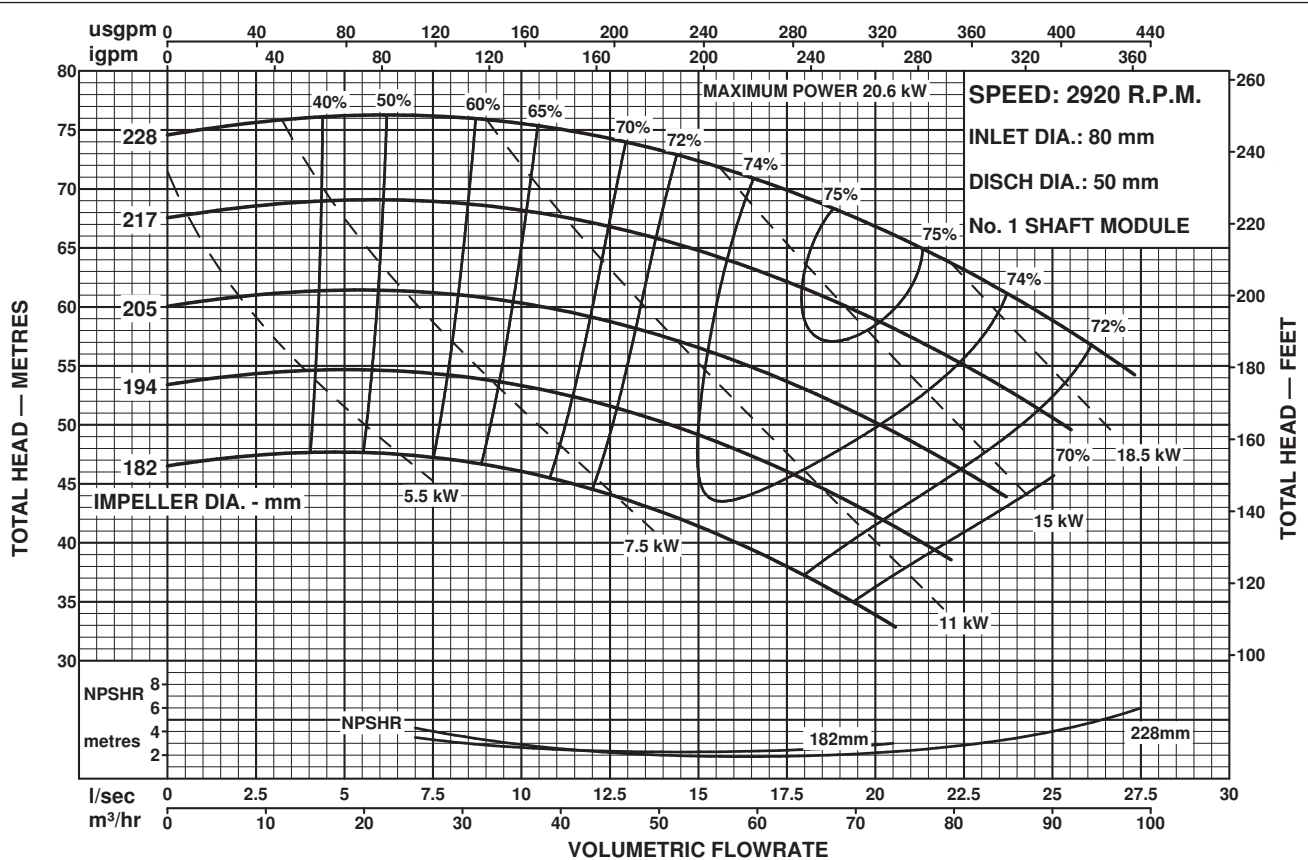
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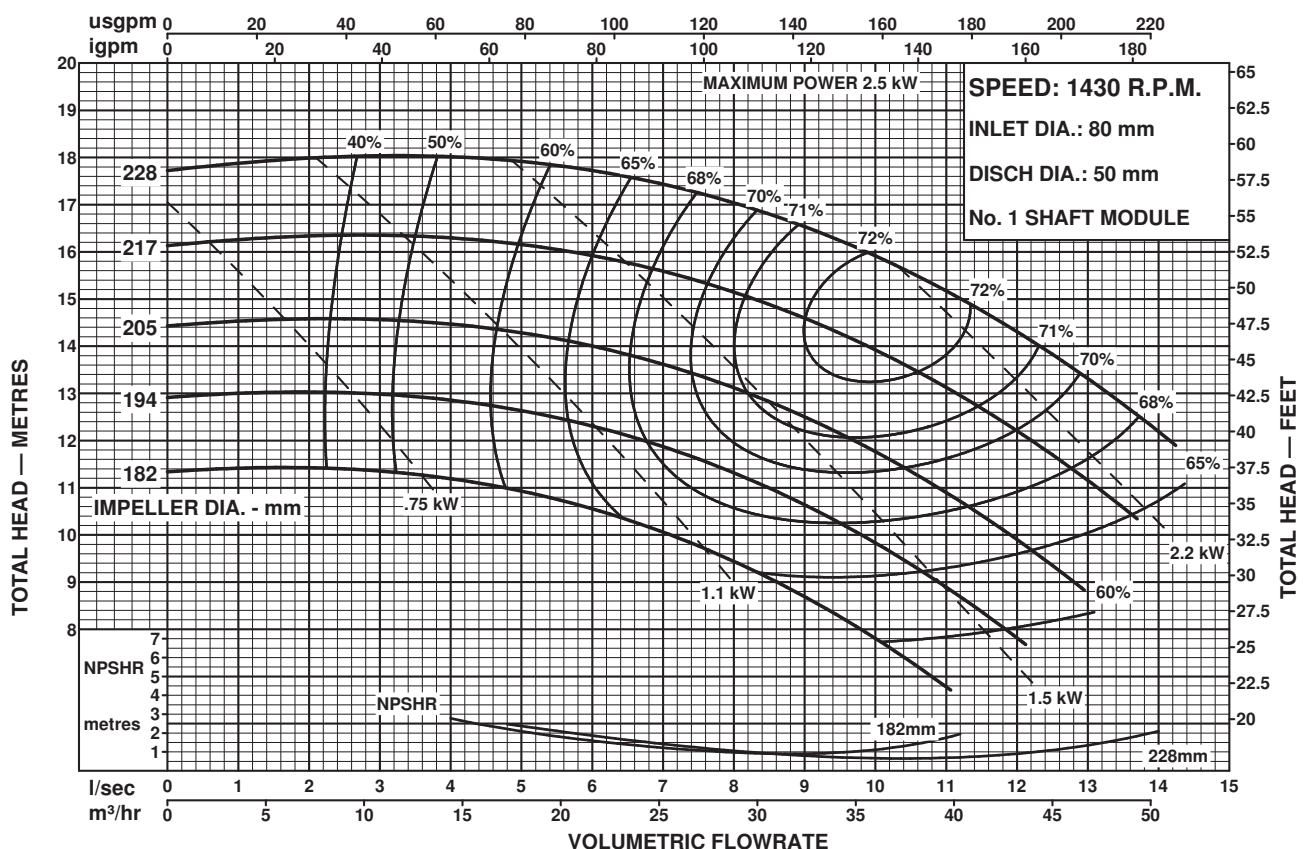
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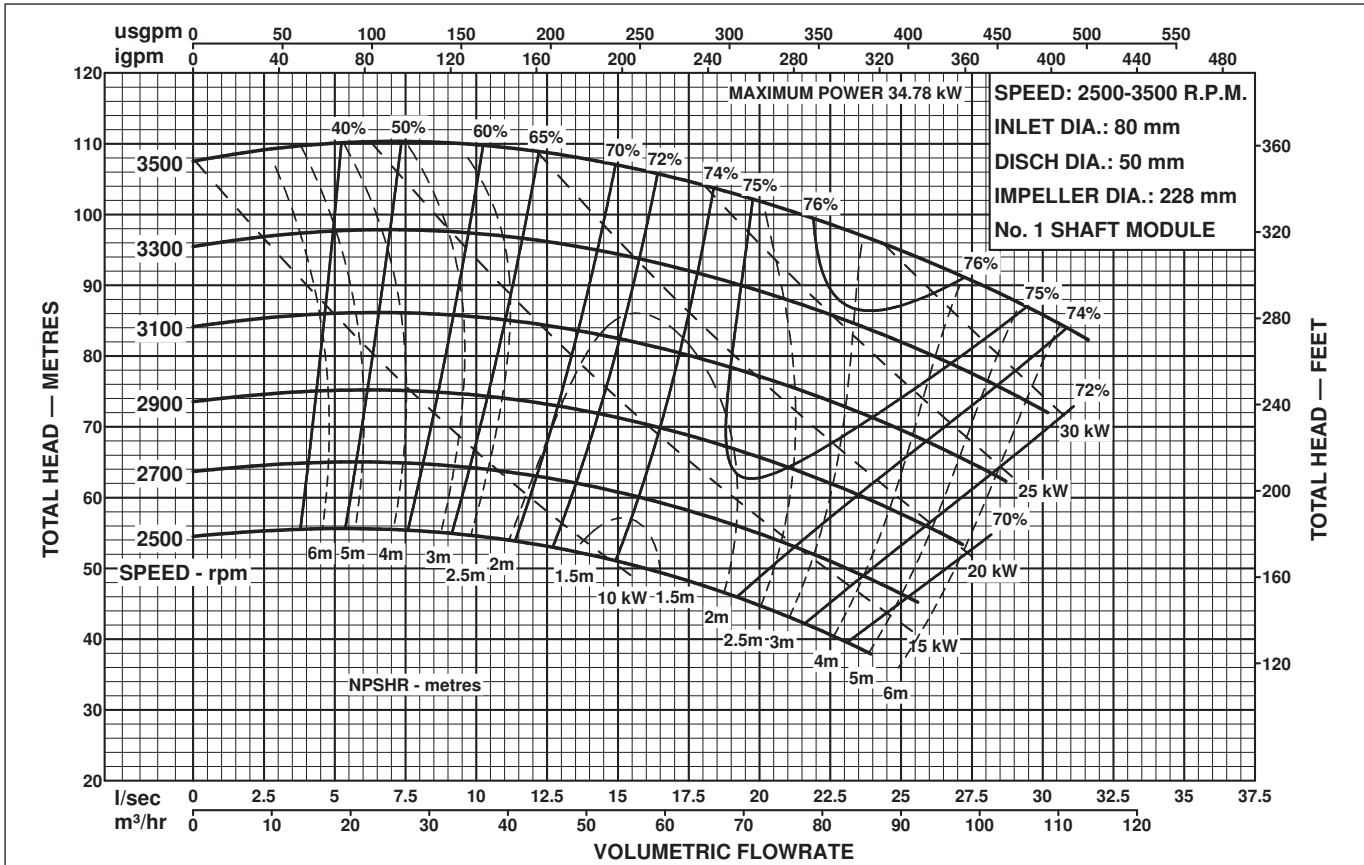
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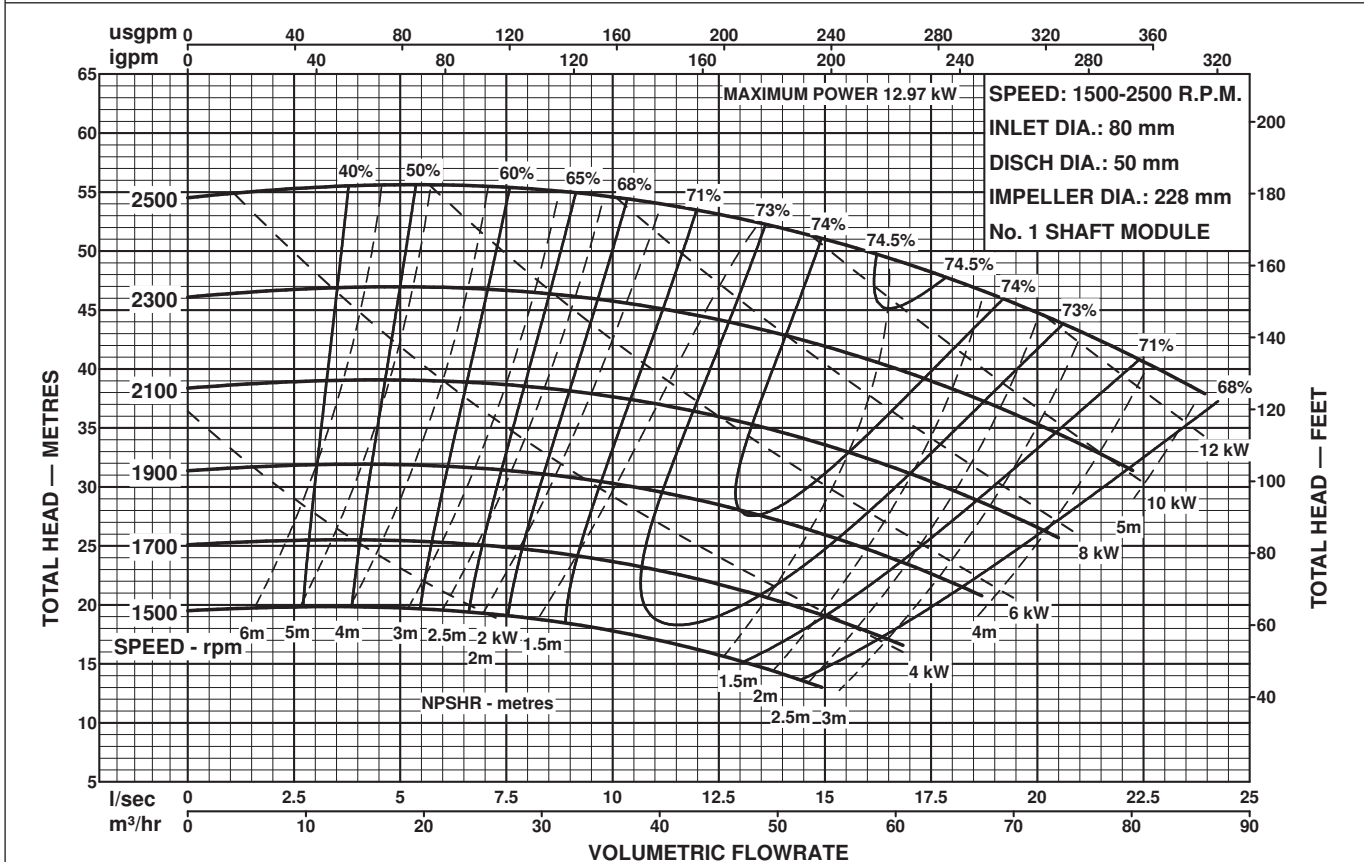


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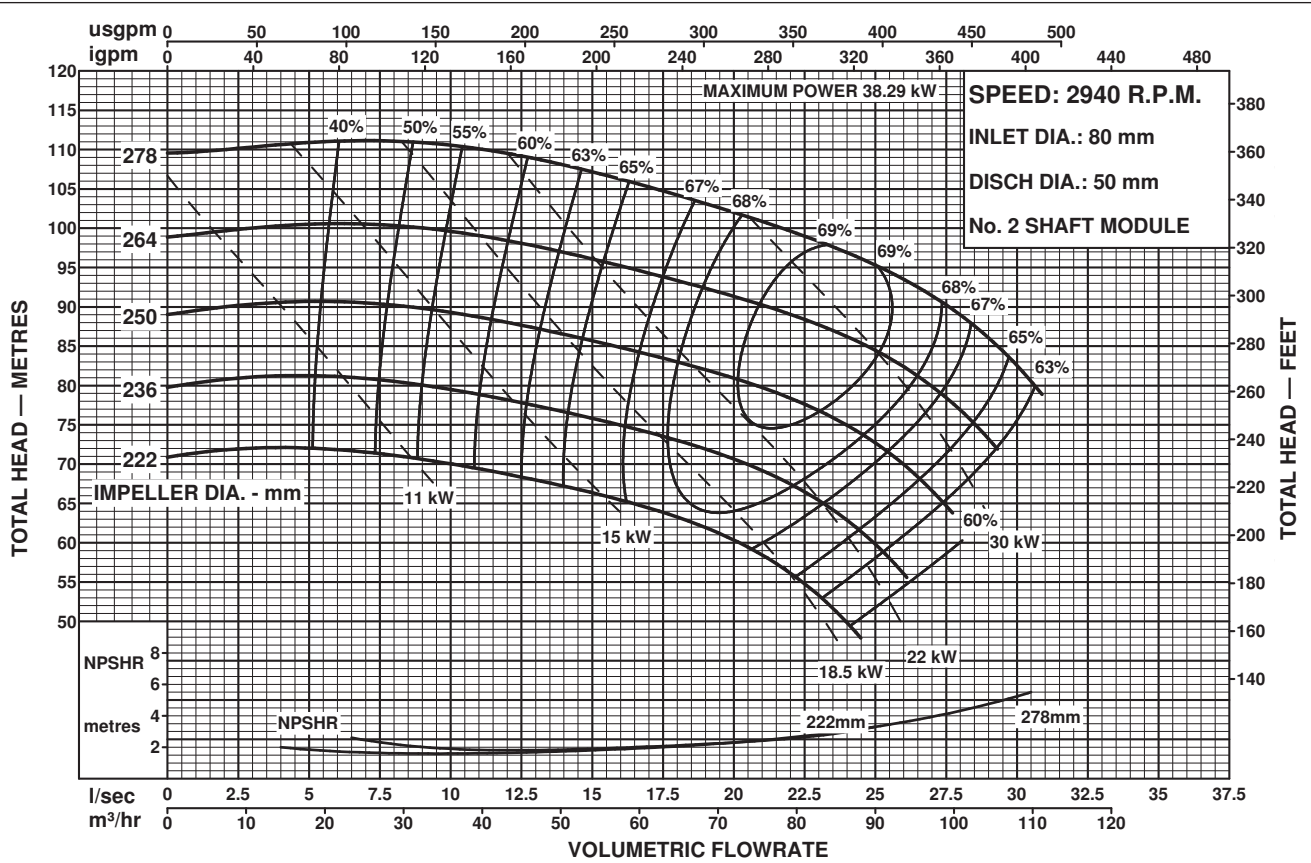
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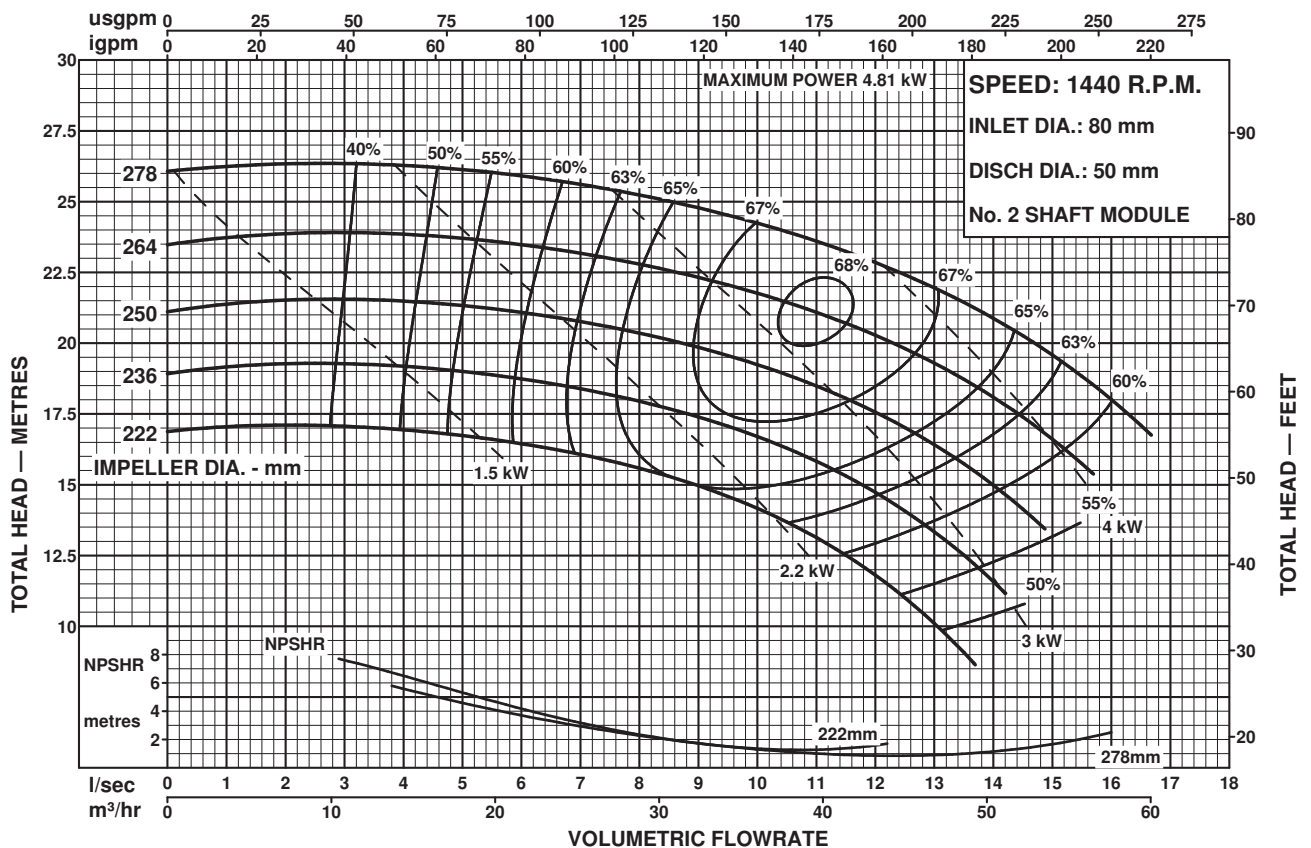
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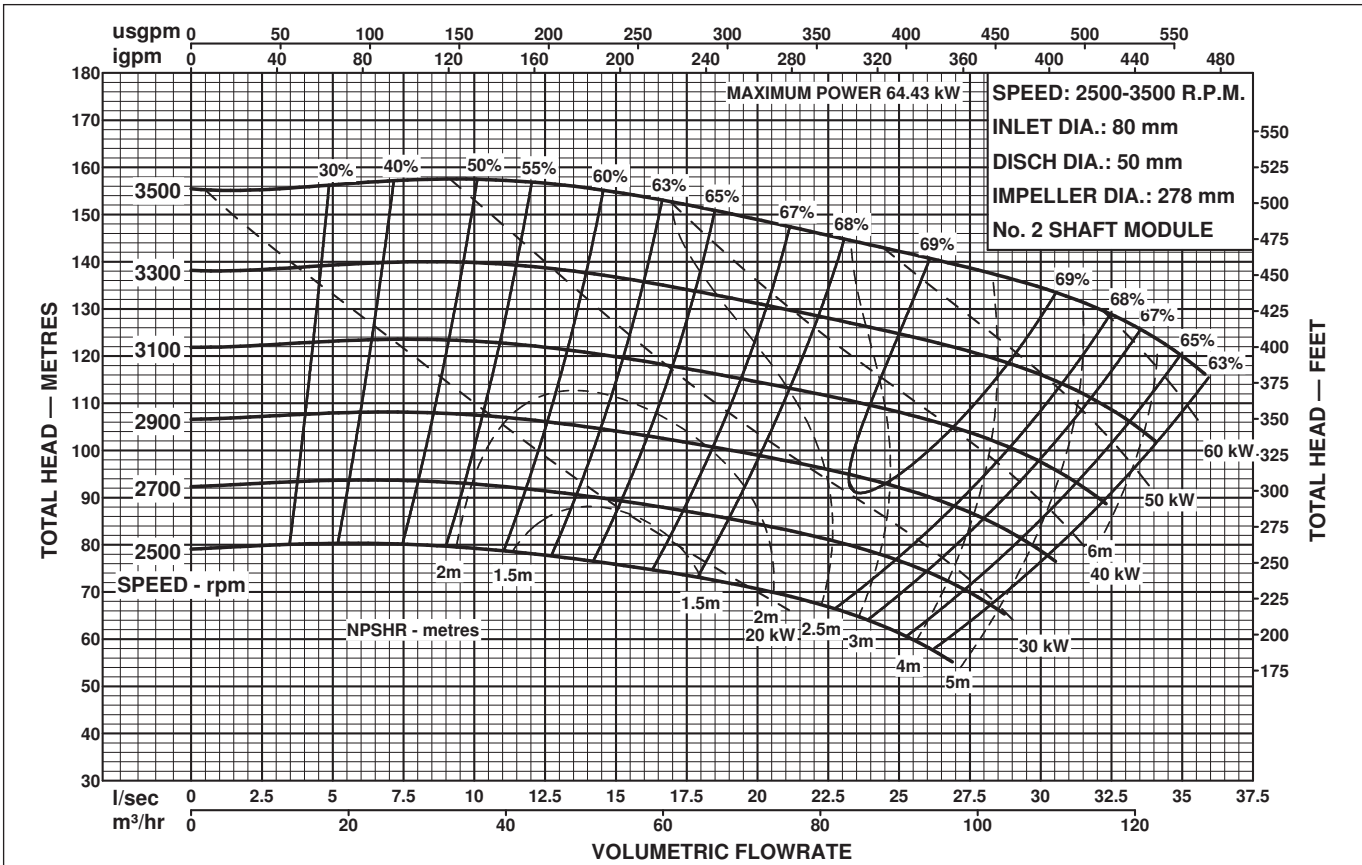
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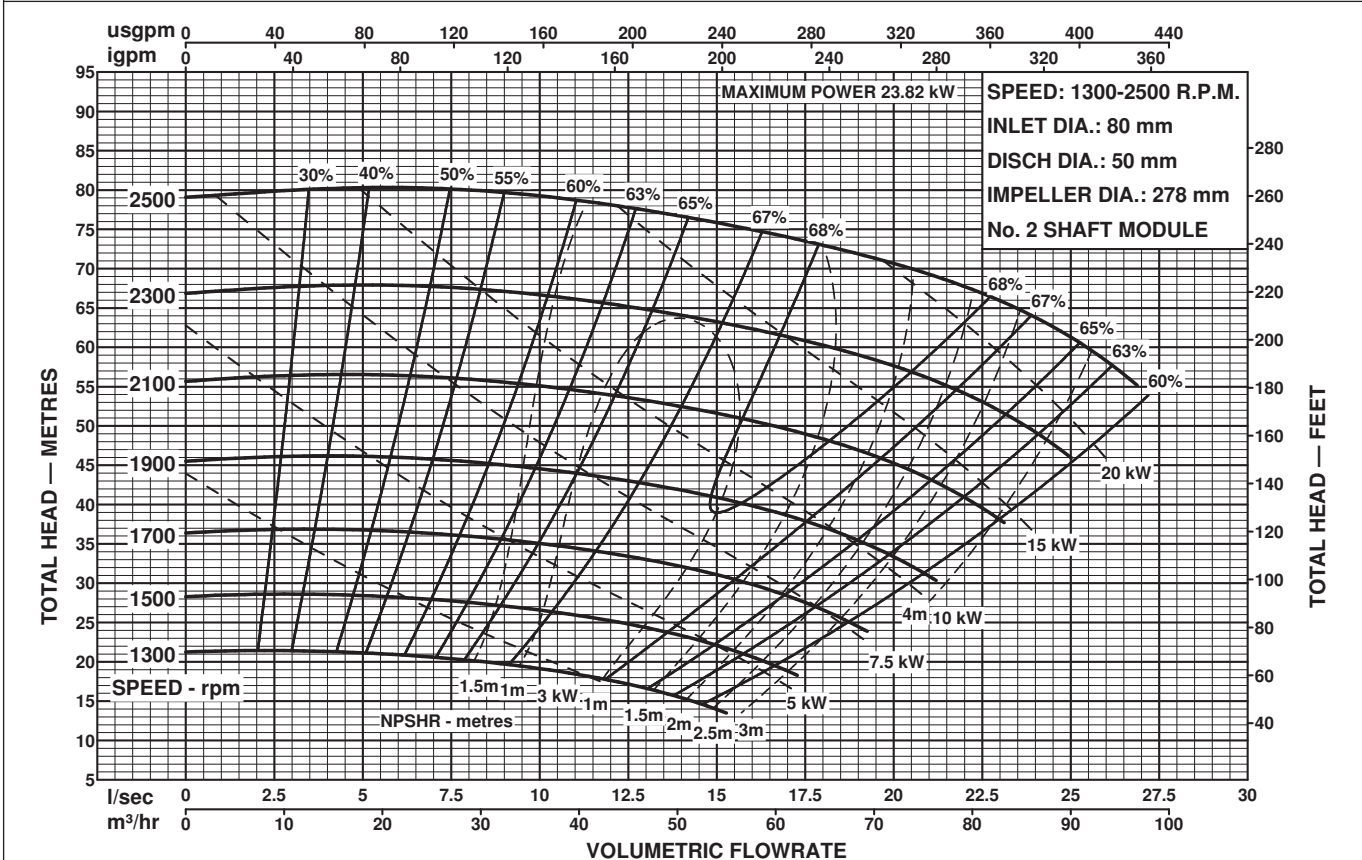


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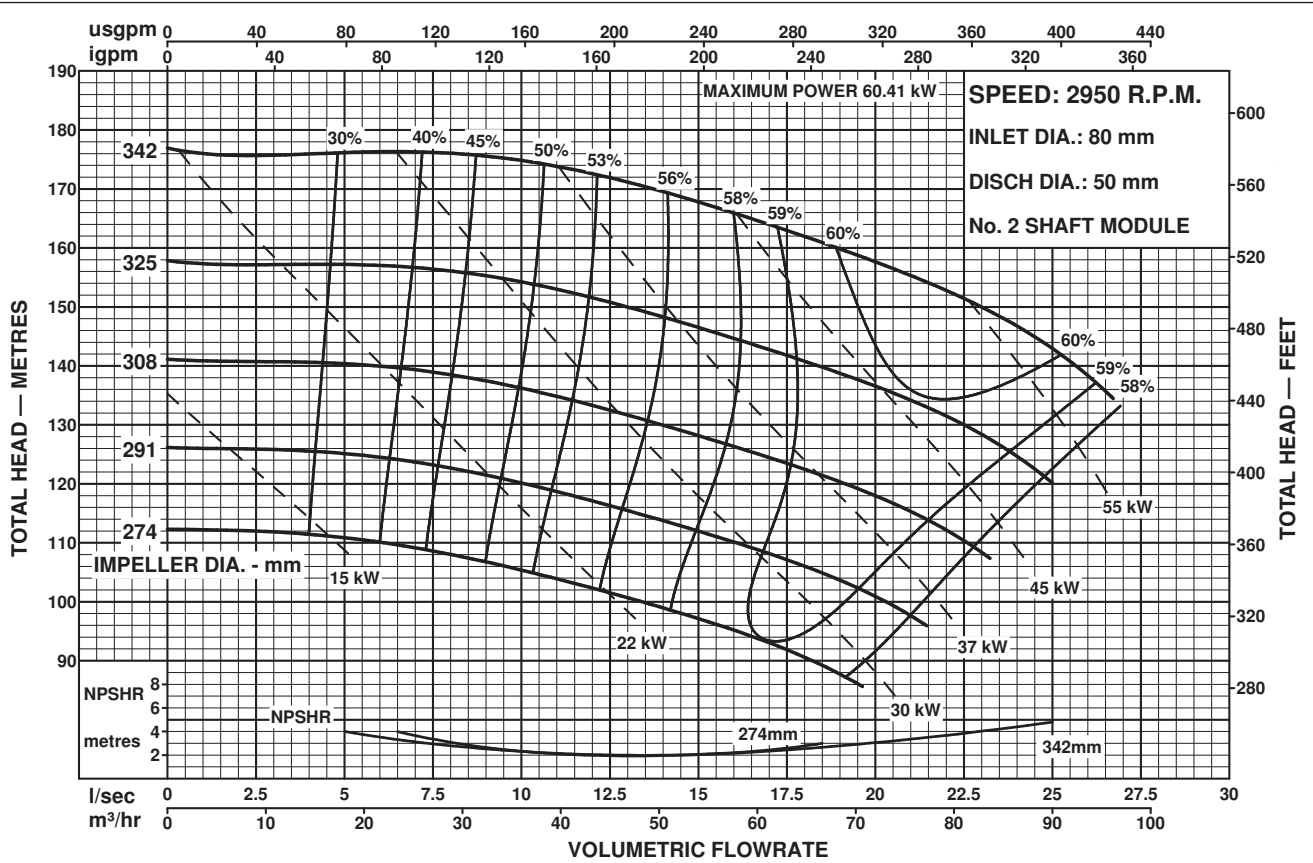
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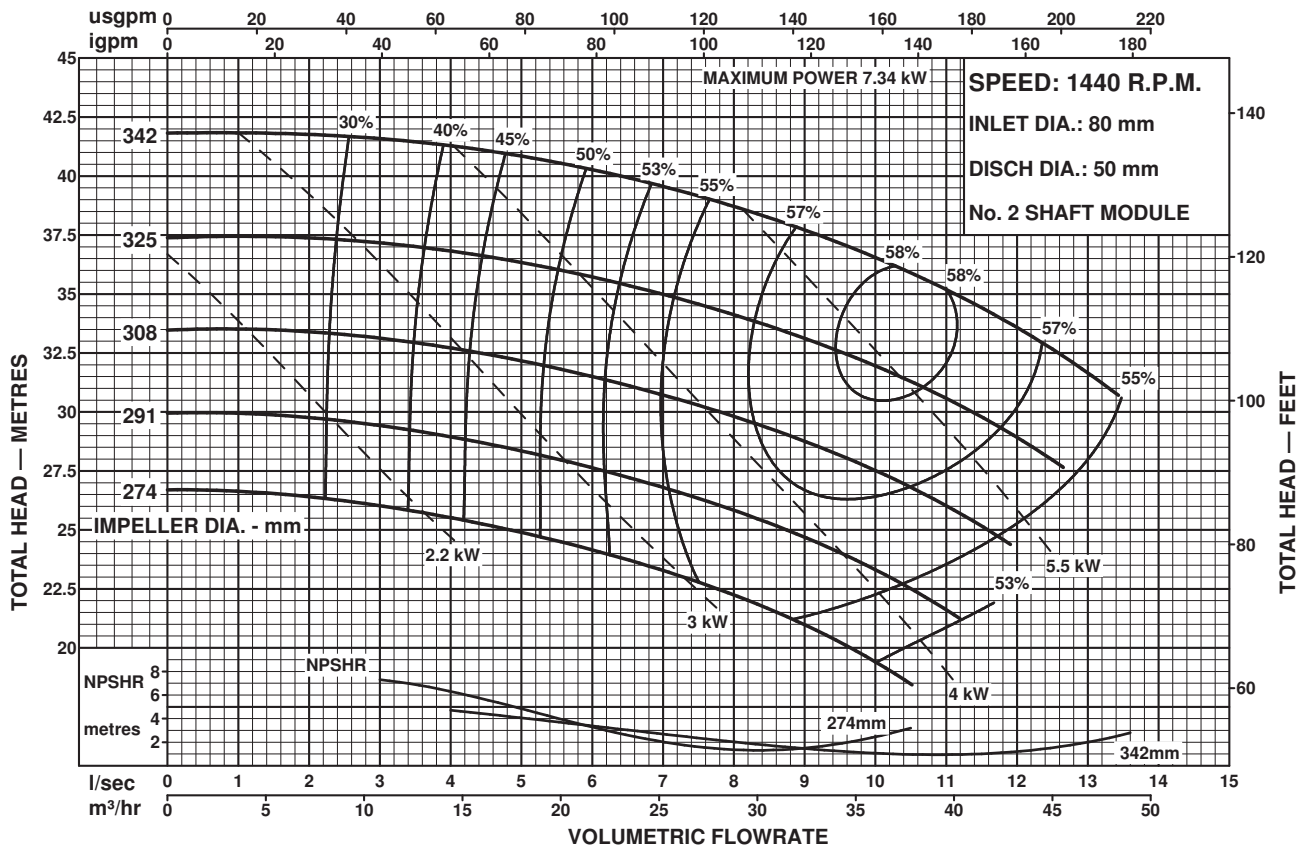
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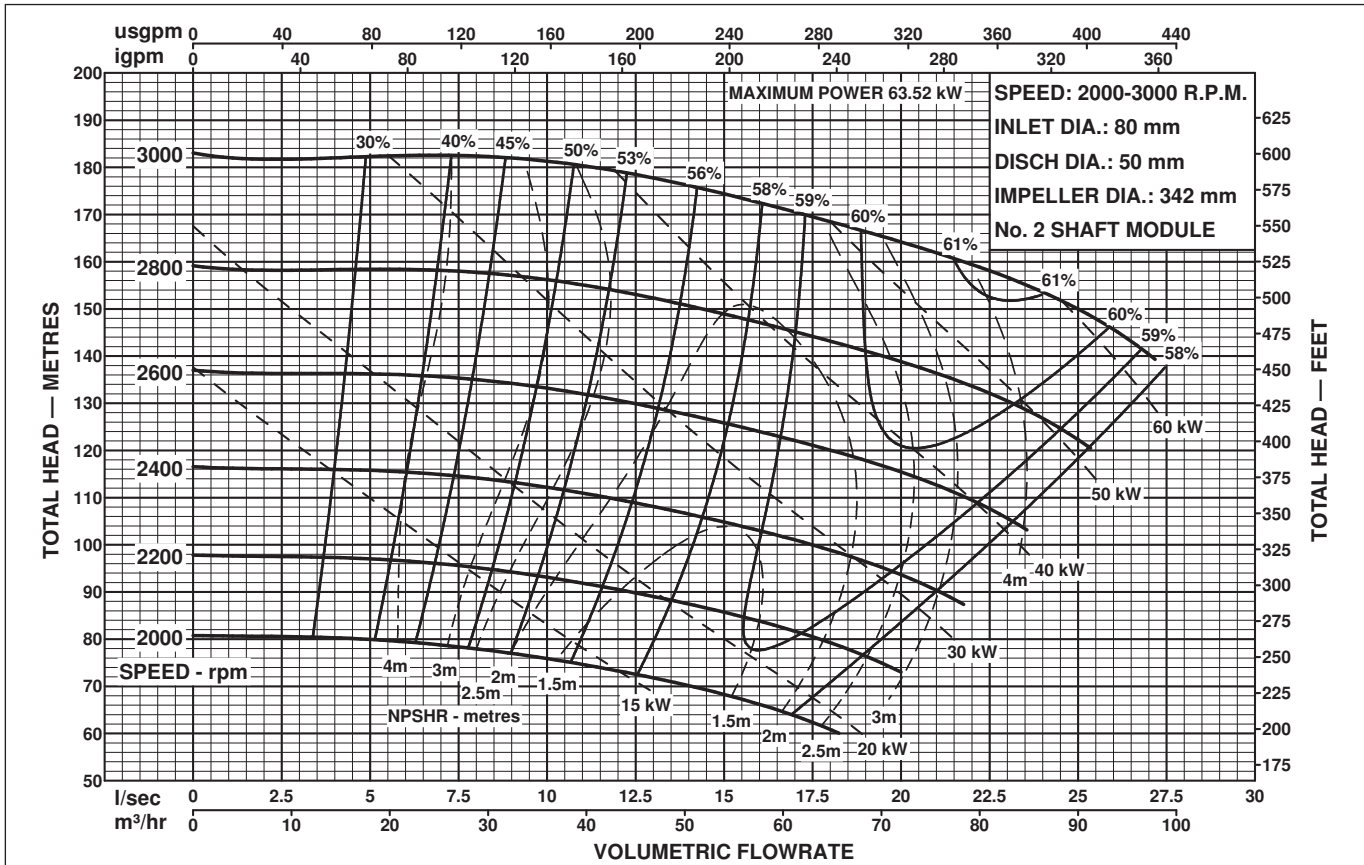
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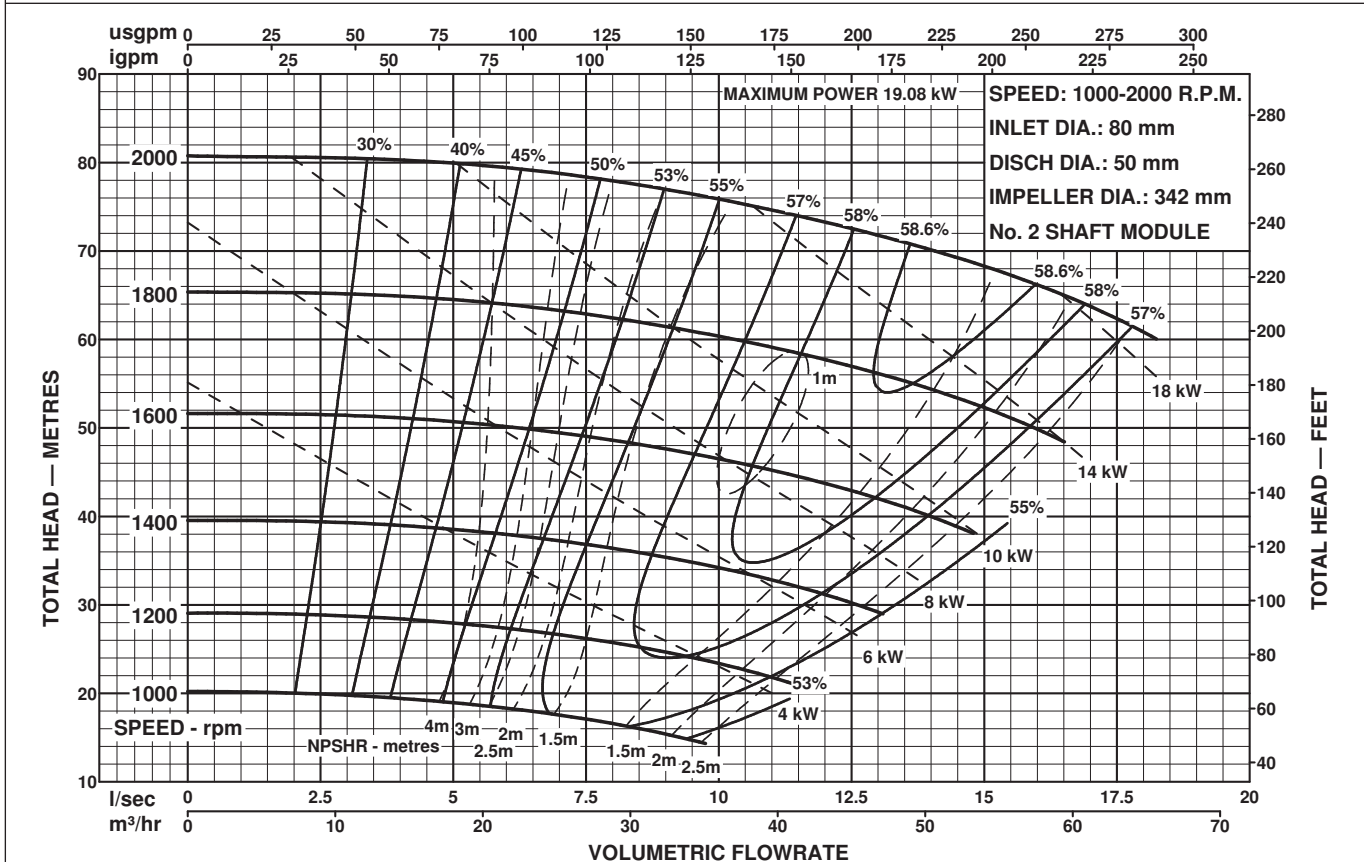


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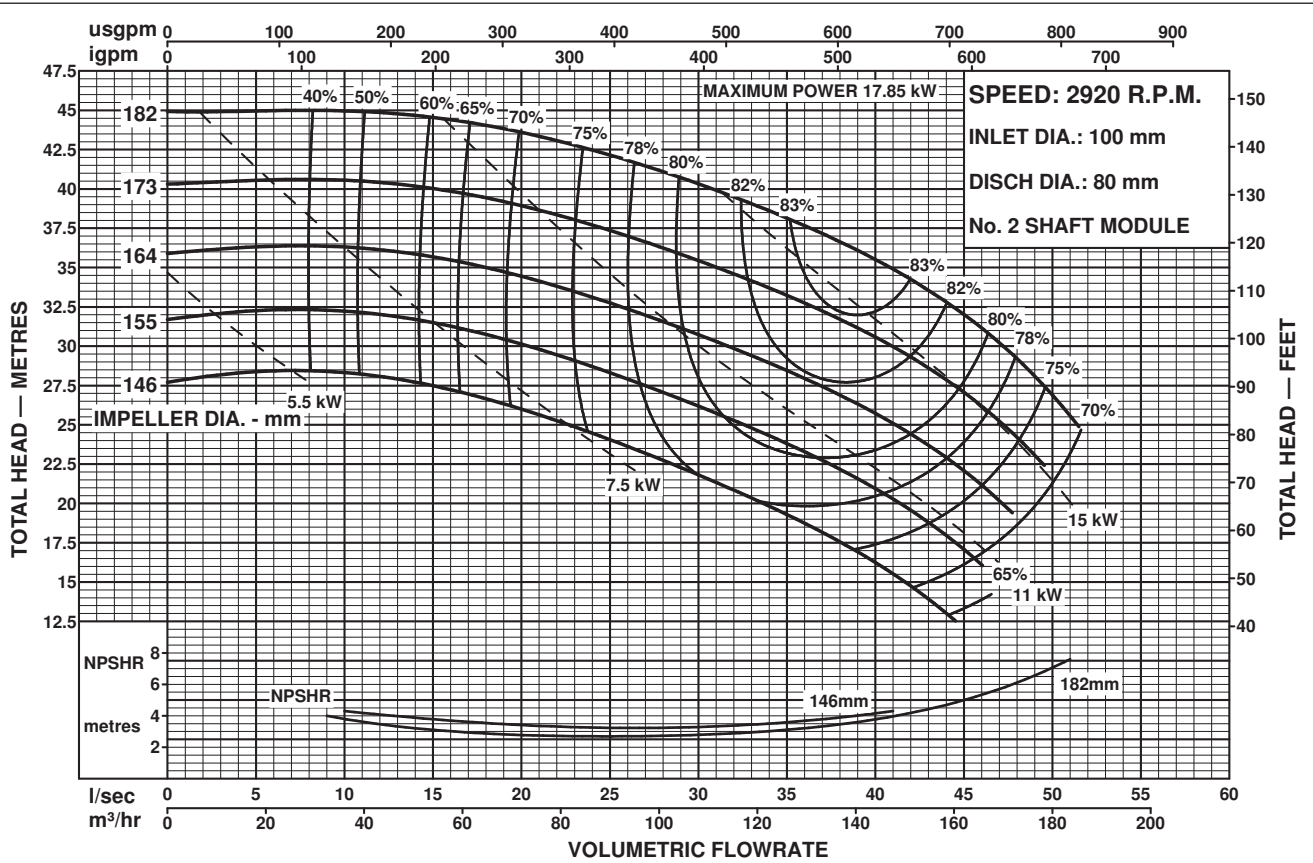
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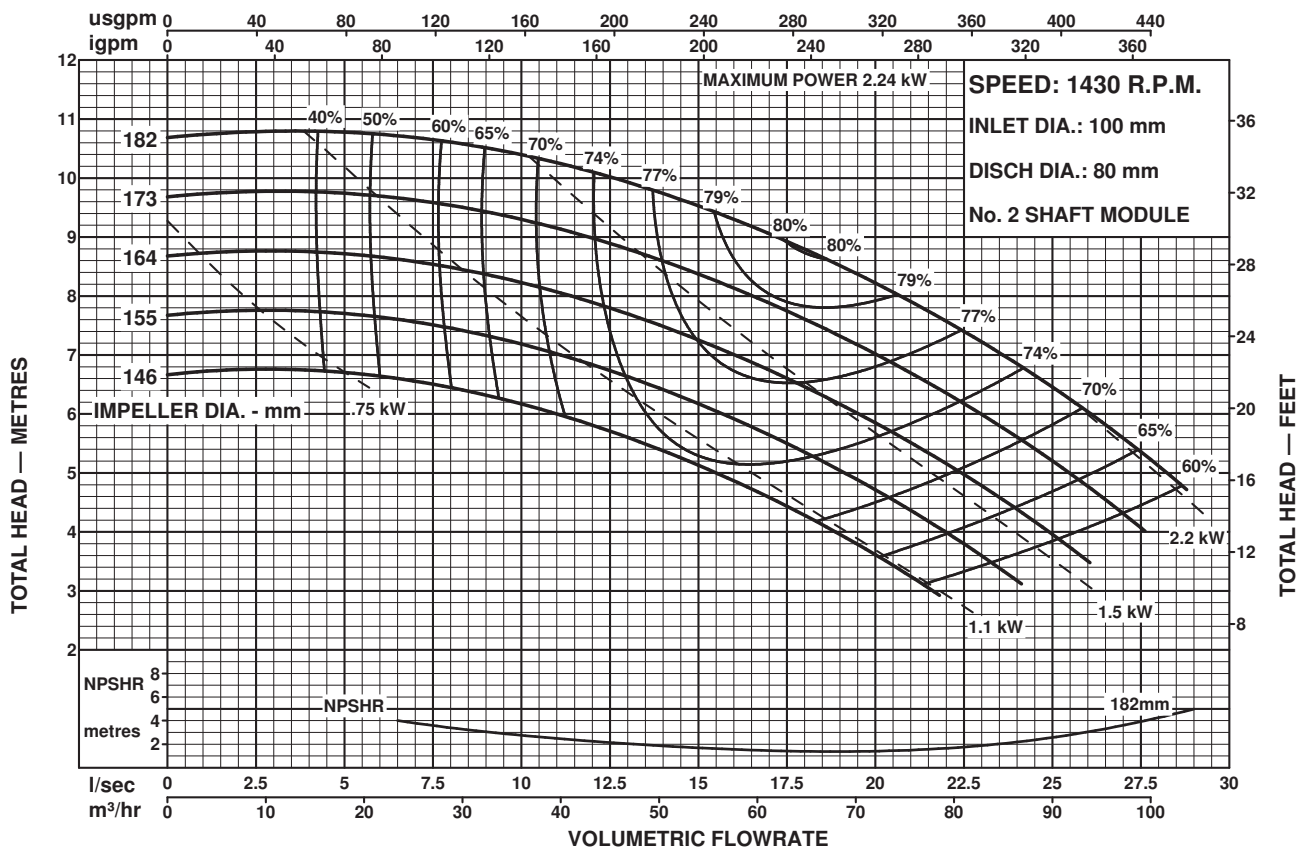
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CENTRIFUGAL PUMP PERFORMANCE DATA



Performance to AS2417 Grade 2 for clean, cold water only.

May 2005



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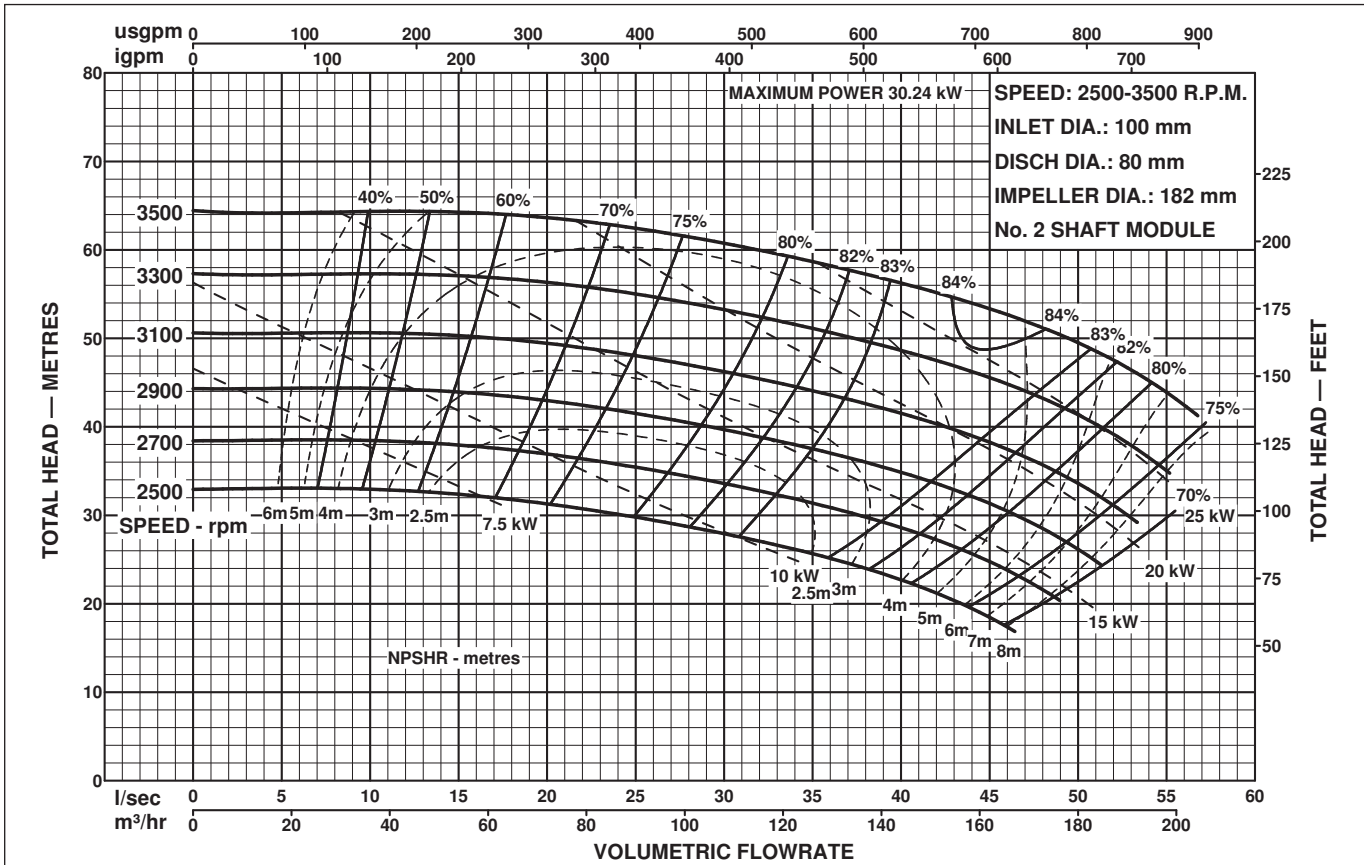
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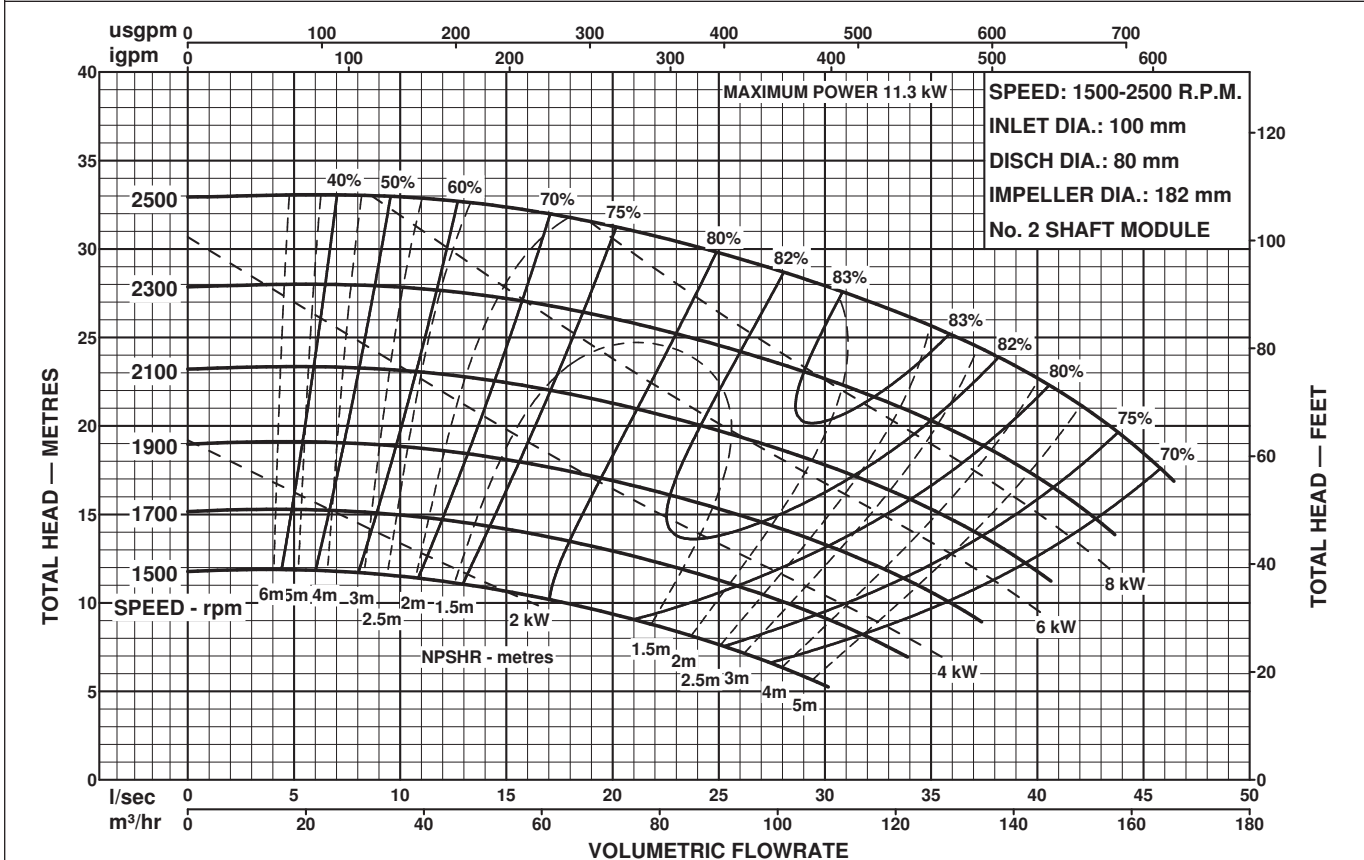


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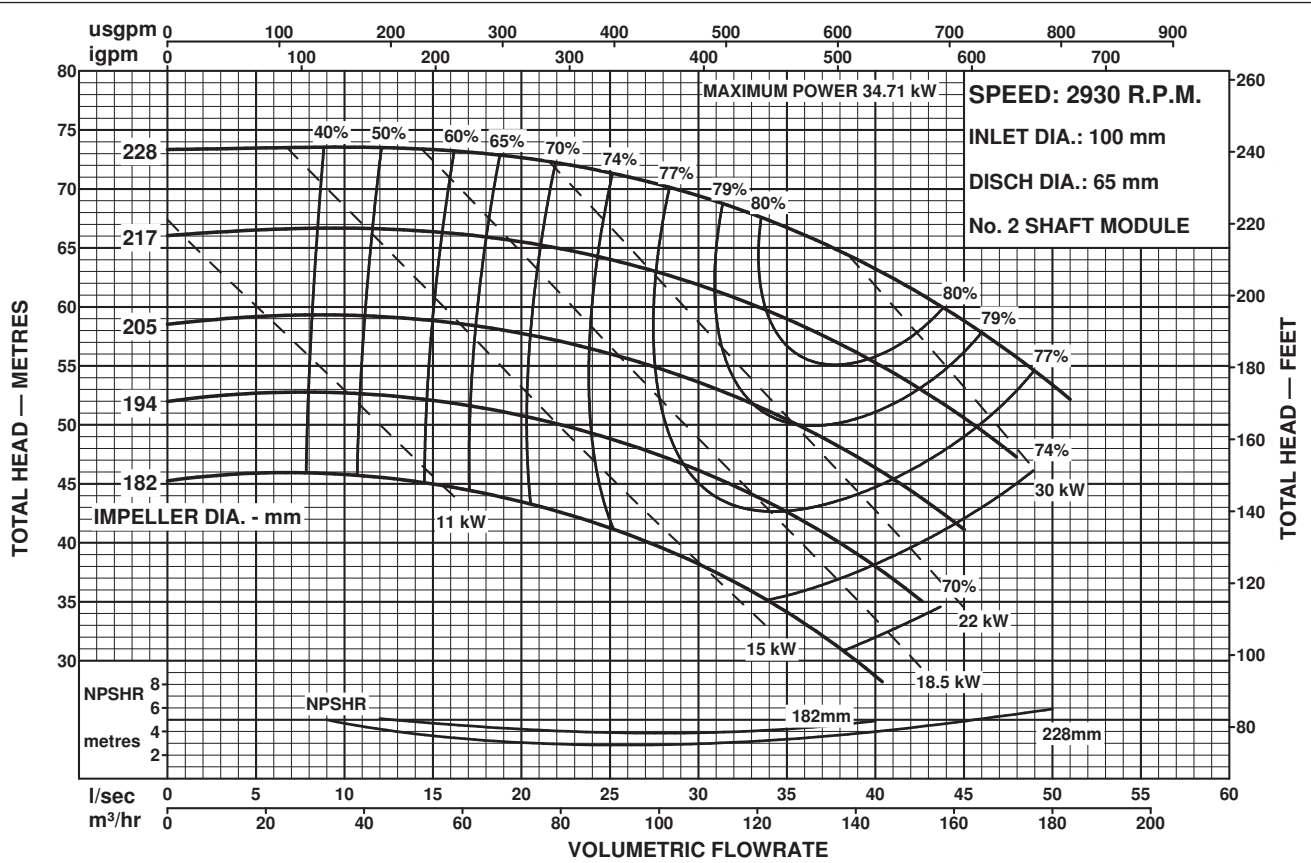
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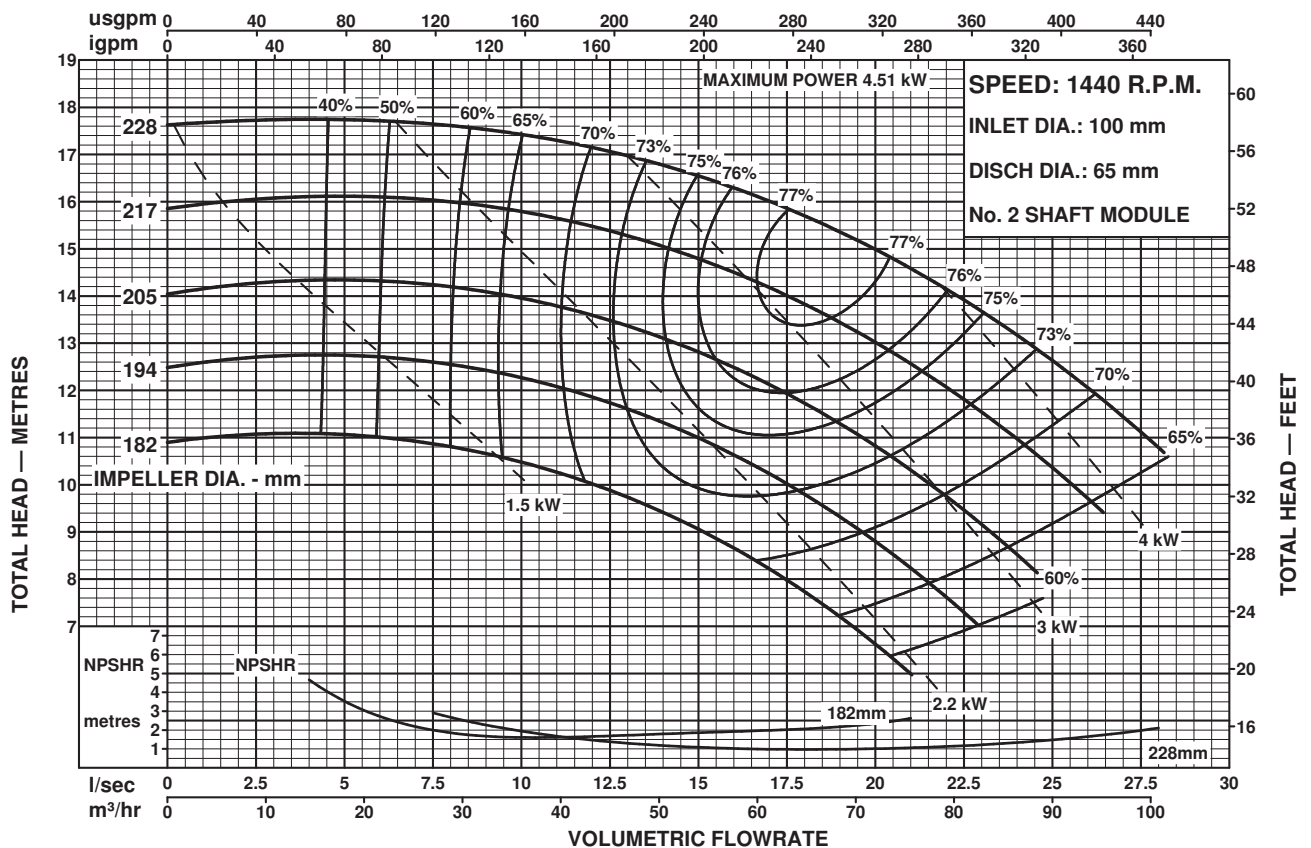
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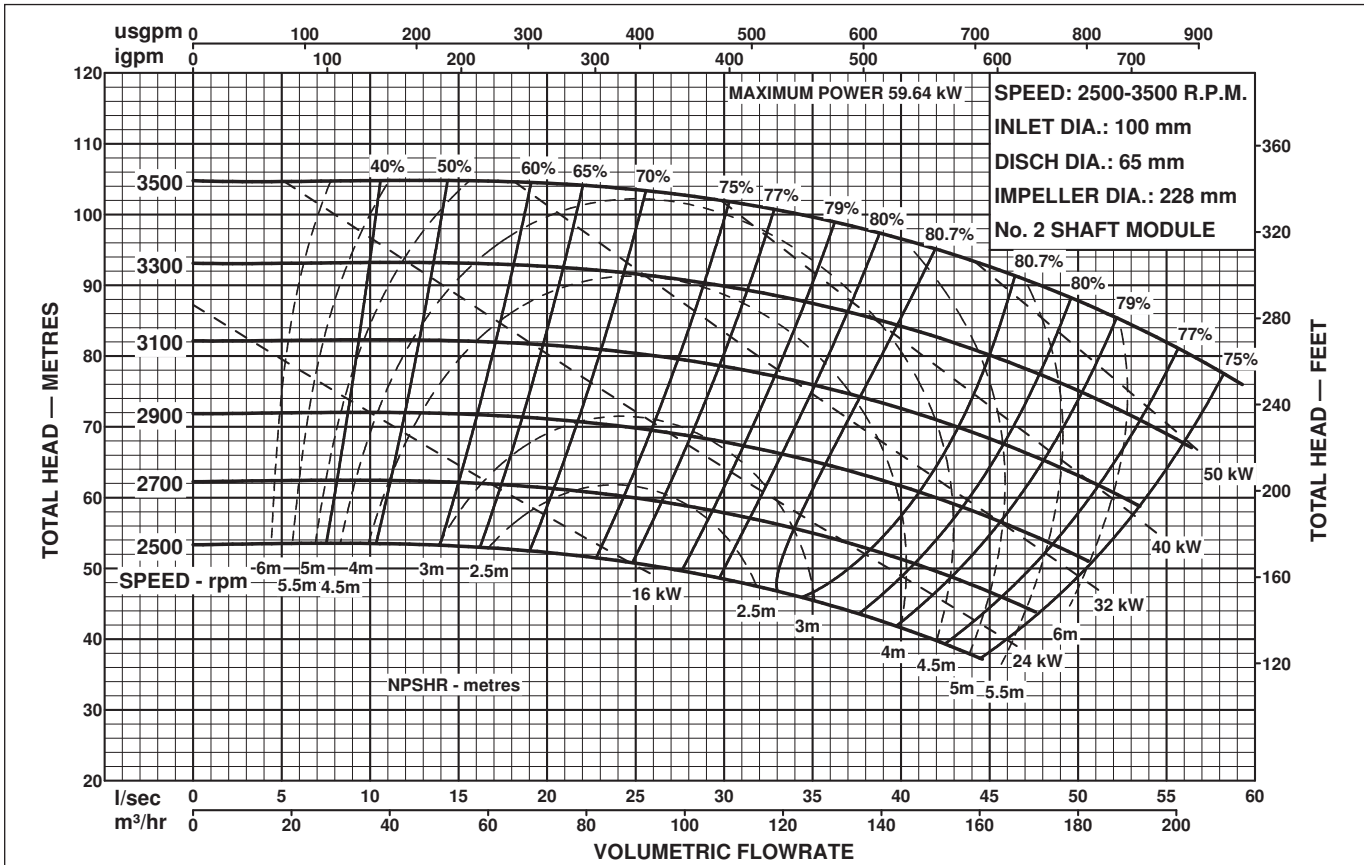
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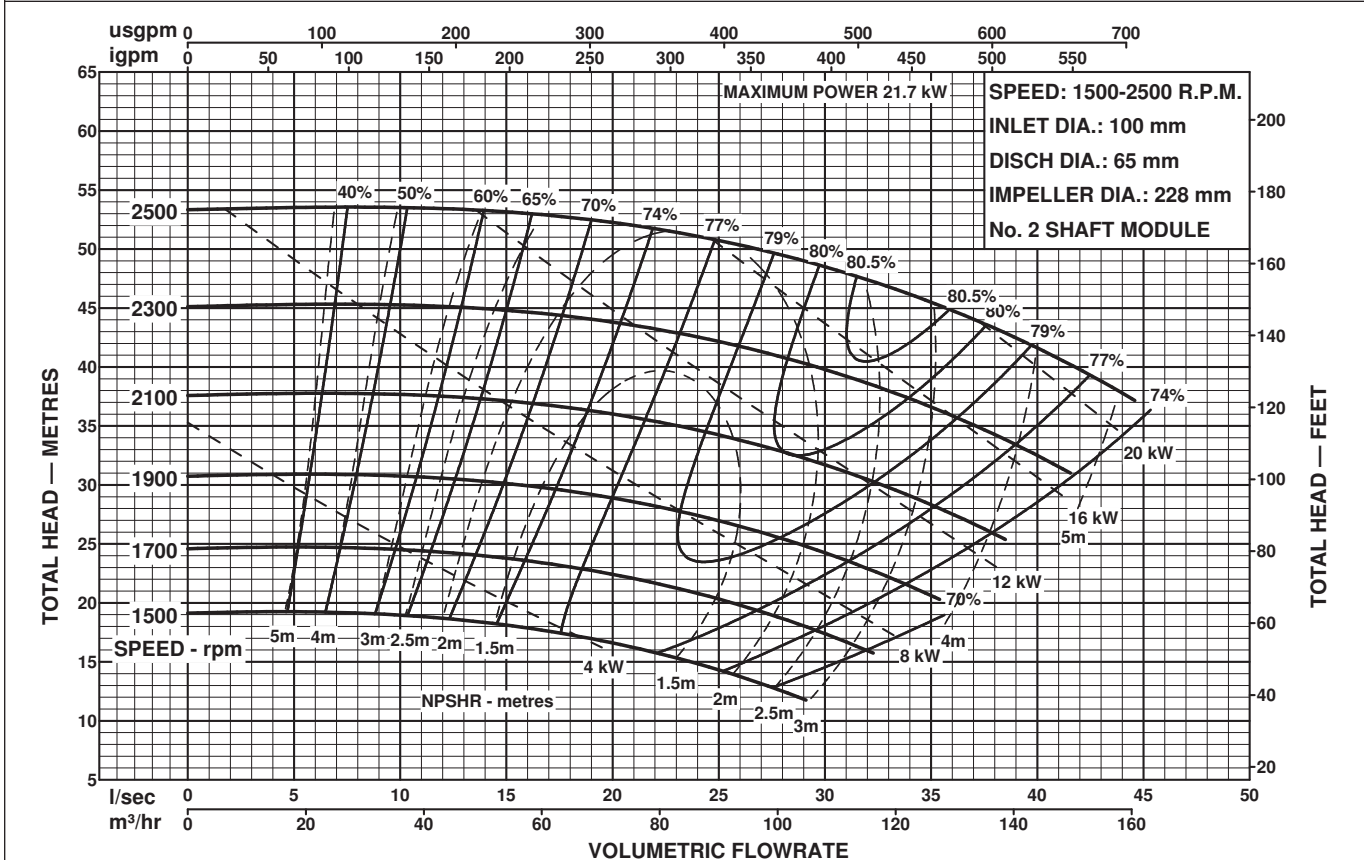


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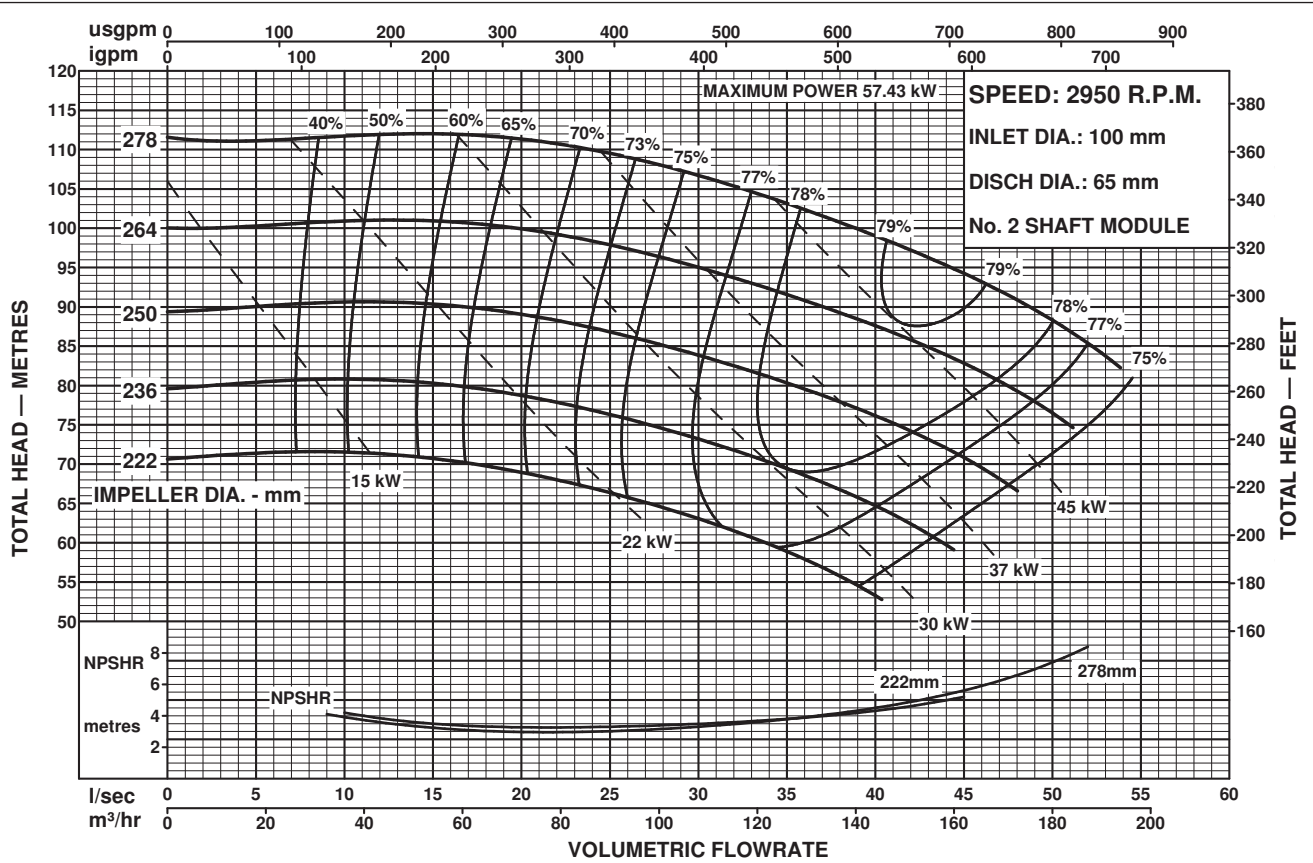
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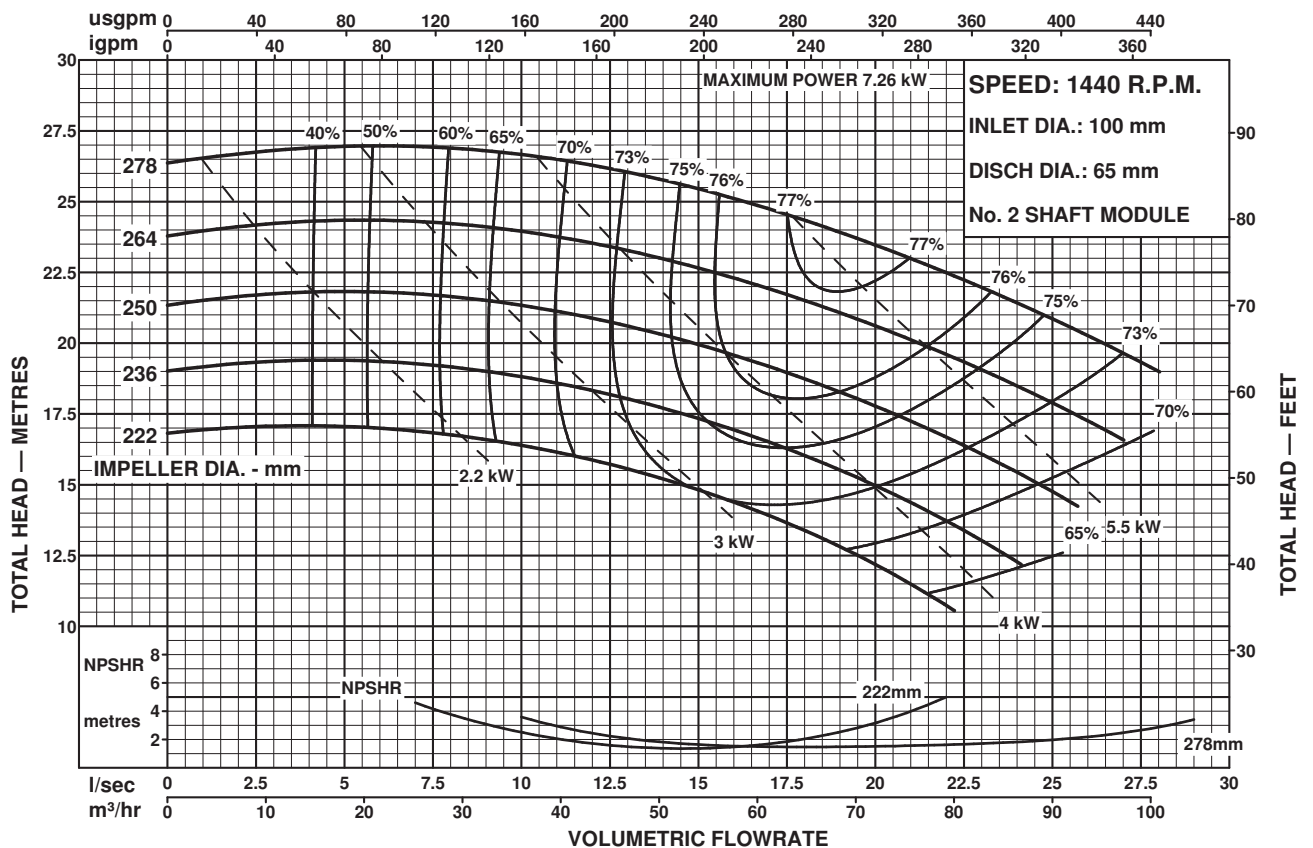
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CENTRIFUGAL PUMP PERFORMANCE DATA



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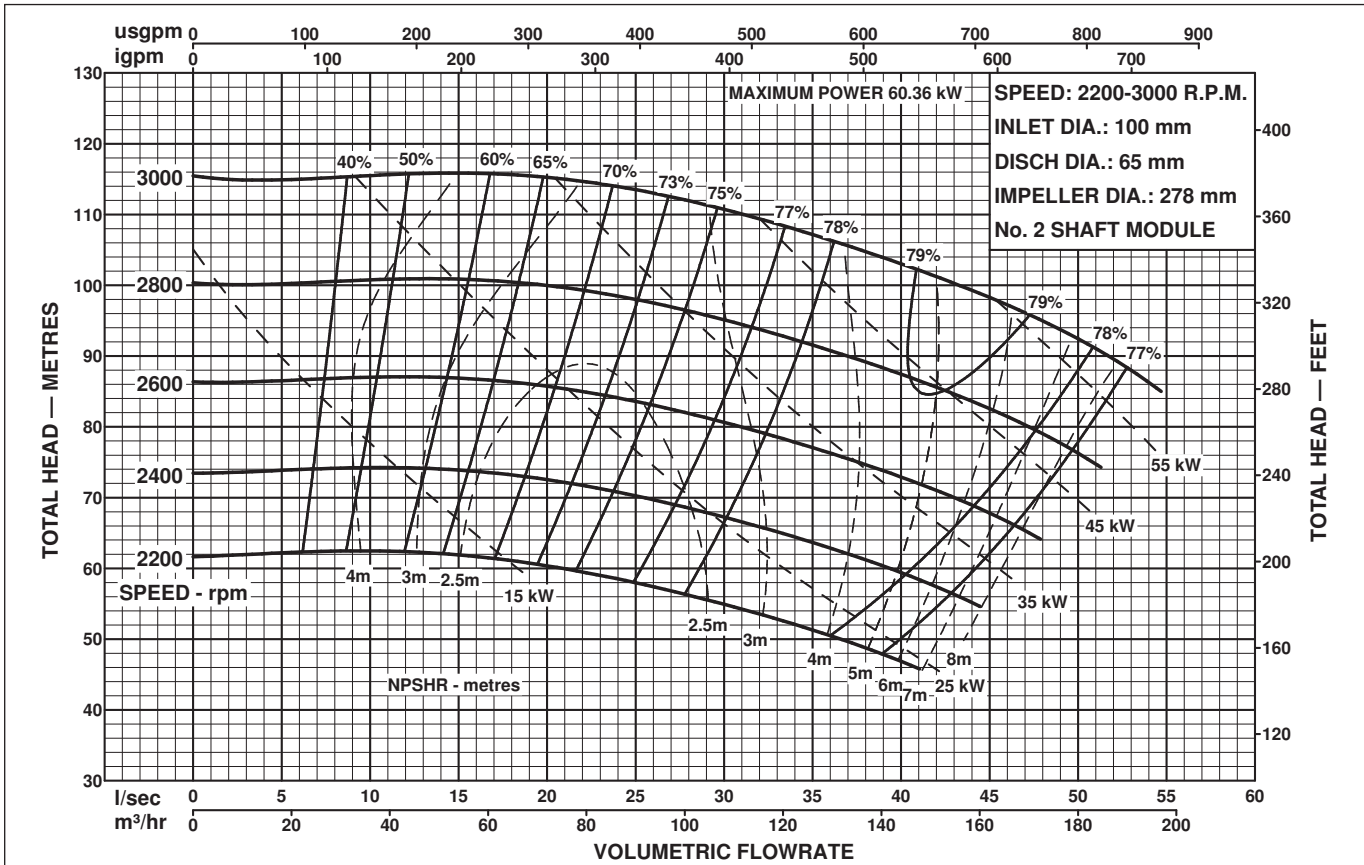
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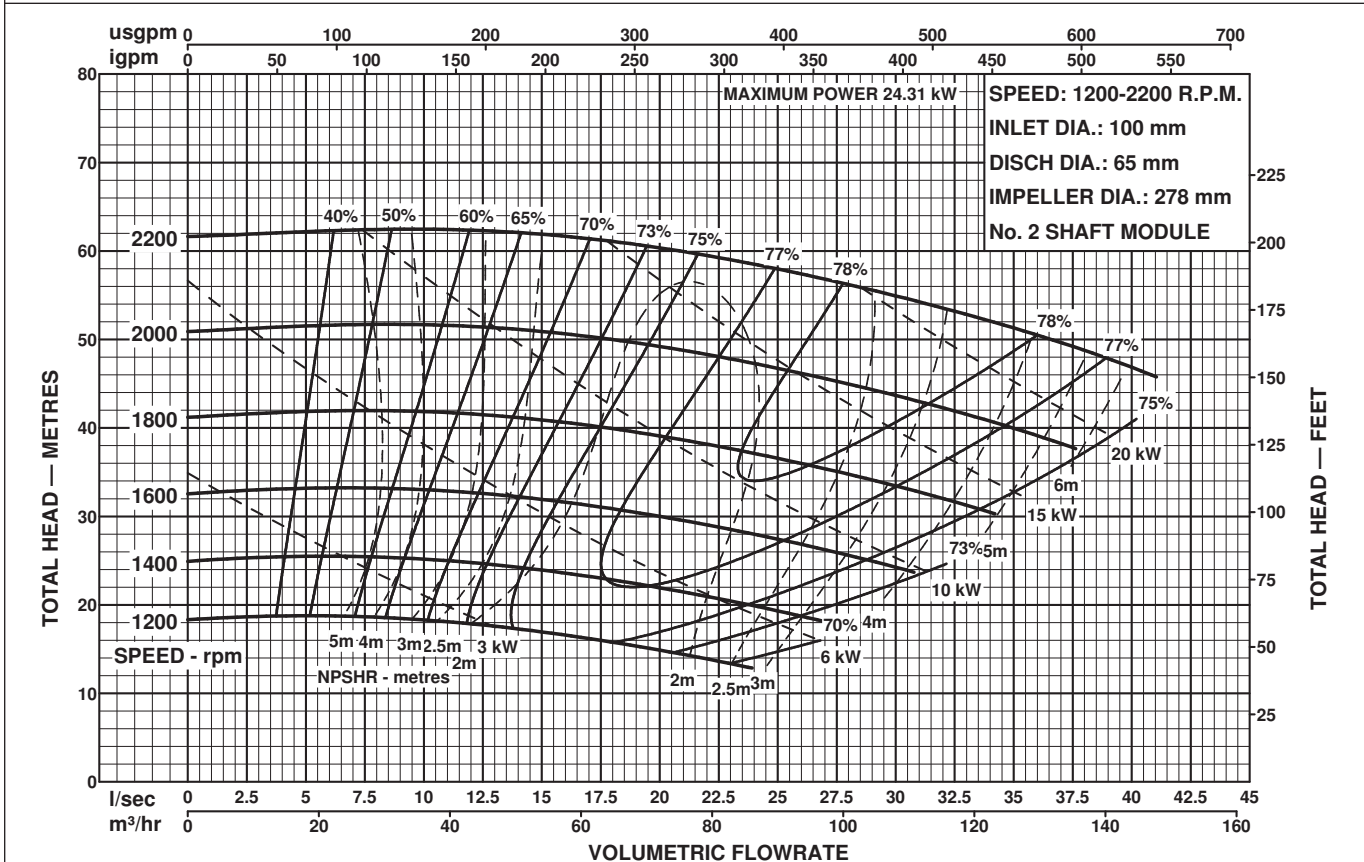


CENTRIFUGAL PUMP PERFORMANCE DATA



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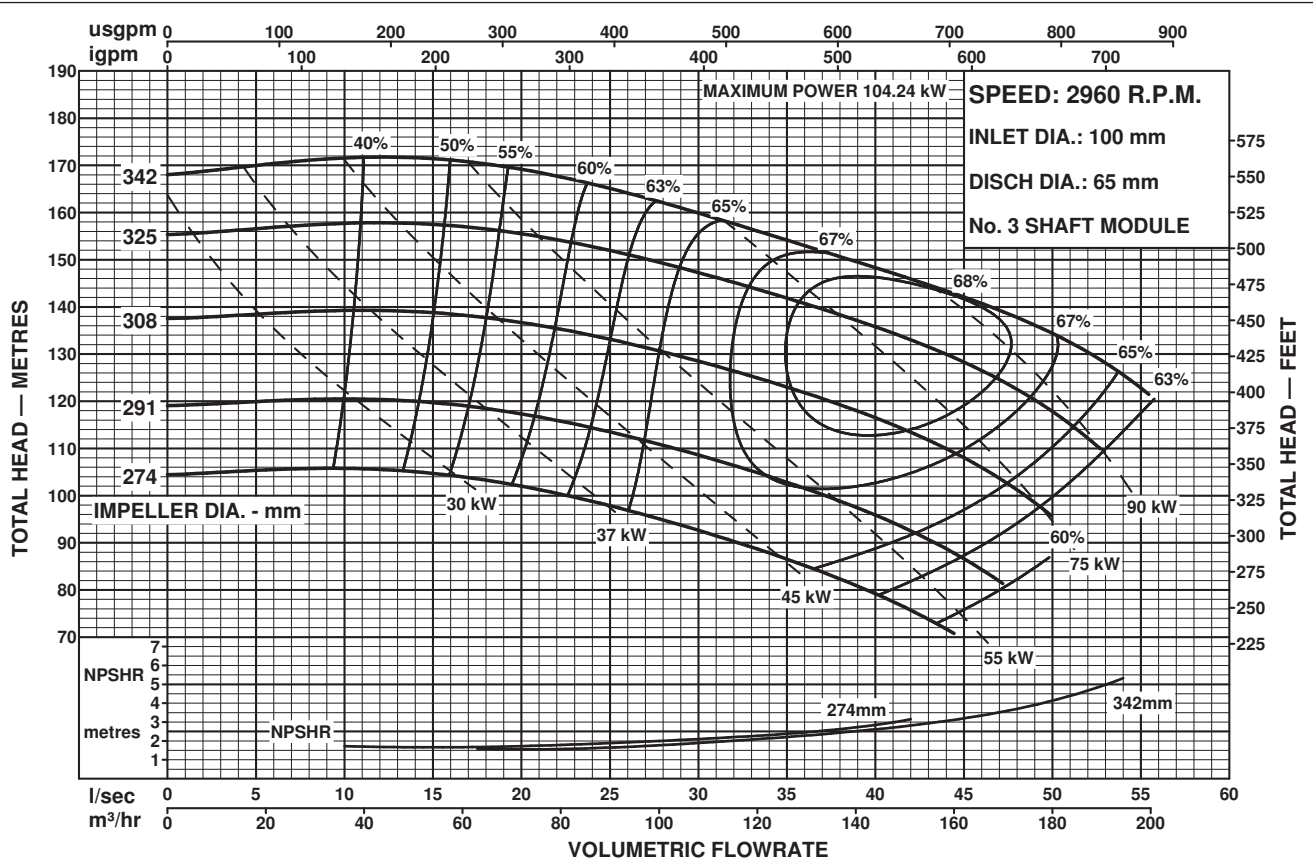
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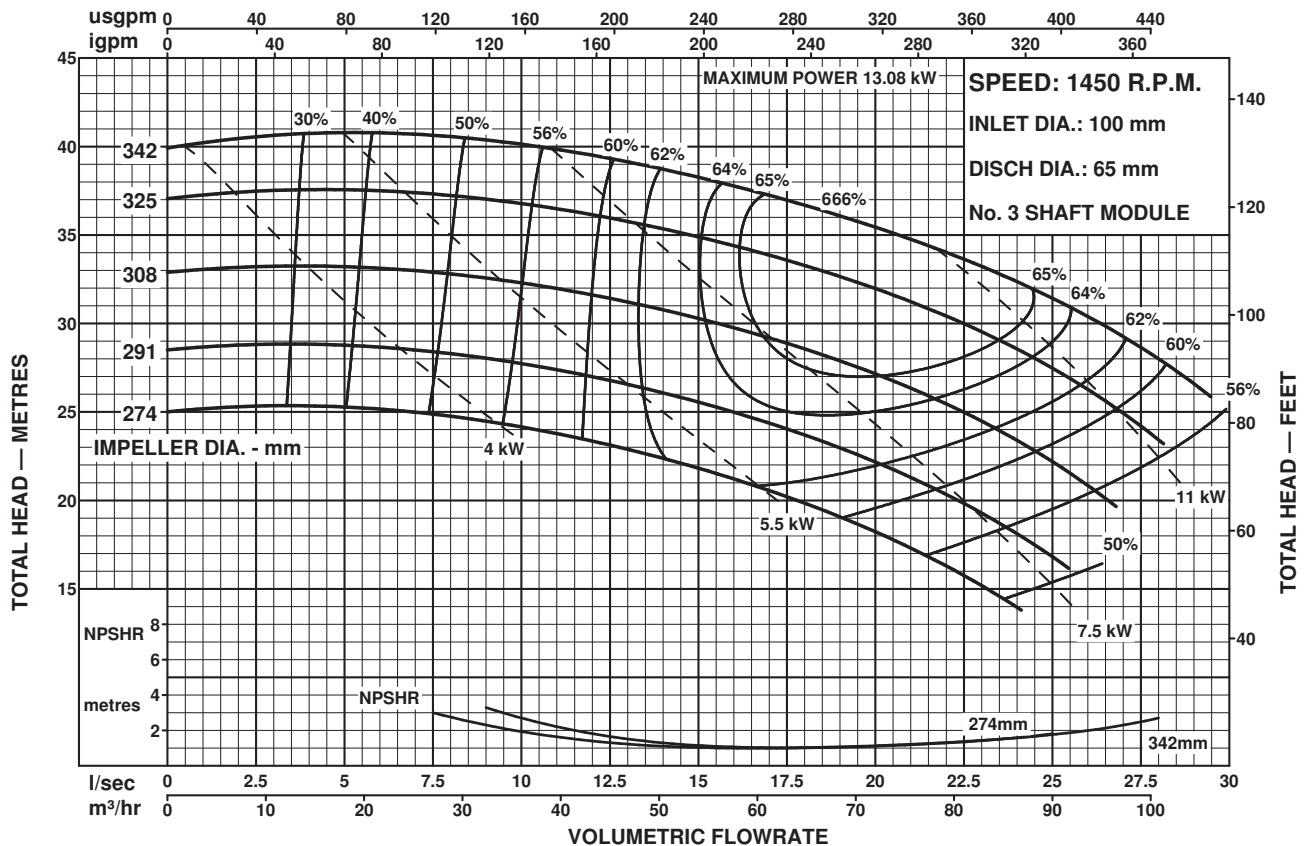
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CENTRIFUGAL PUMP PERFORMANCE DATA



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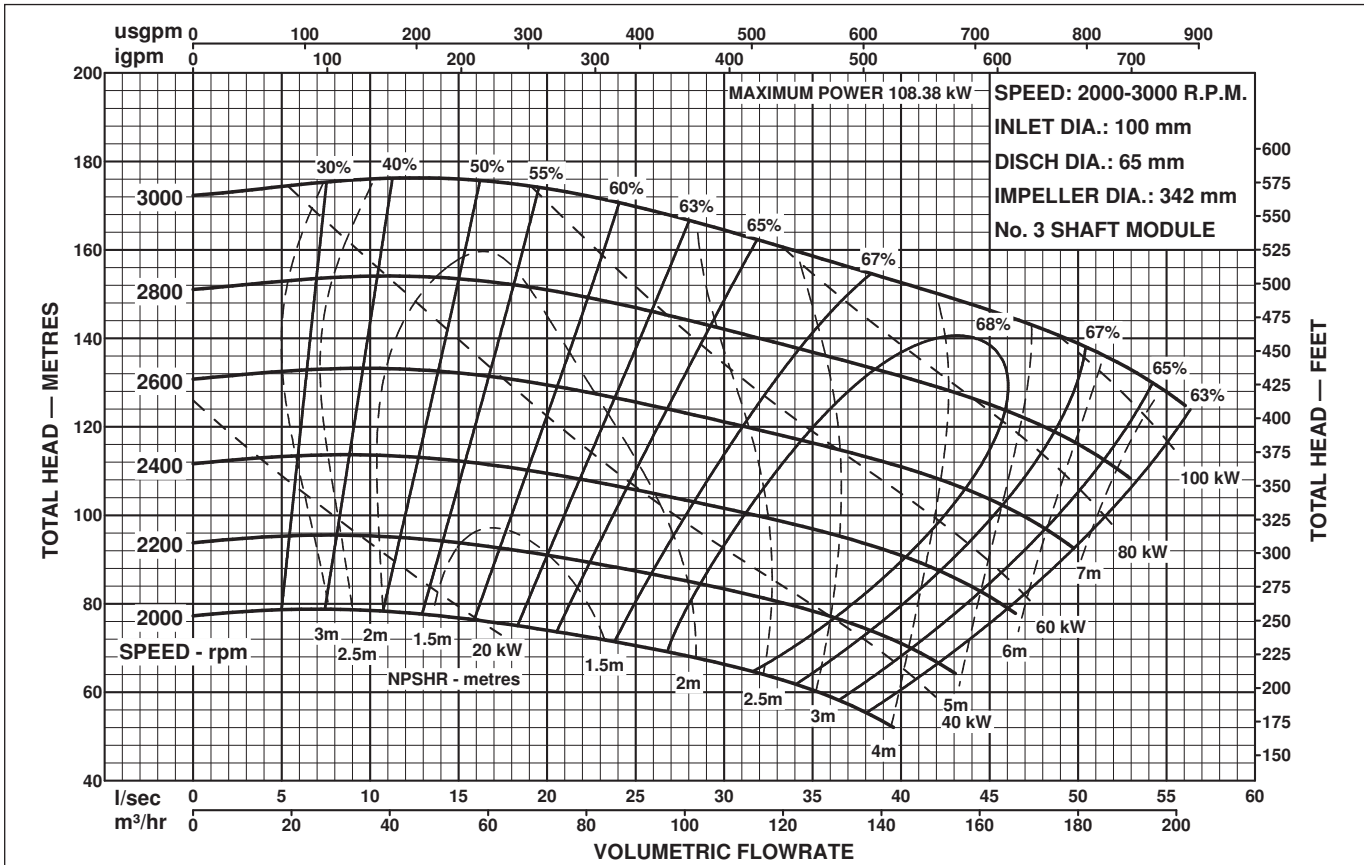
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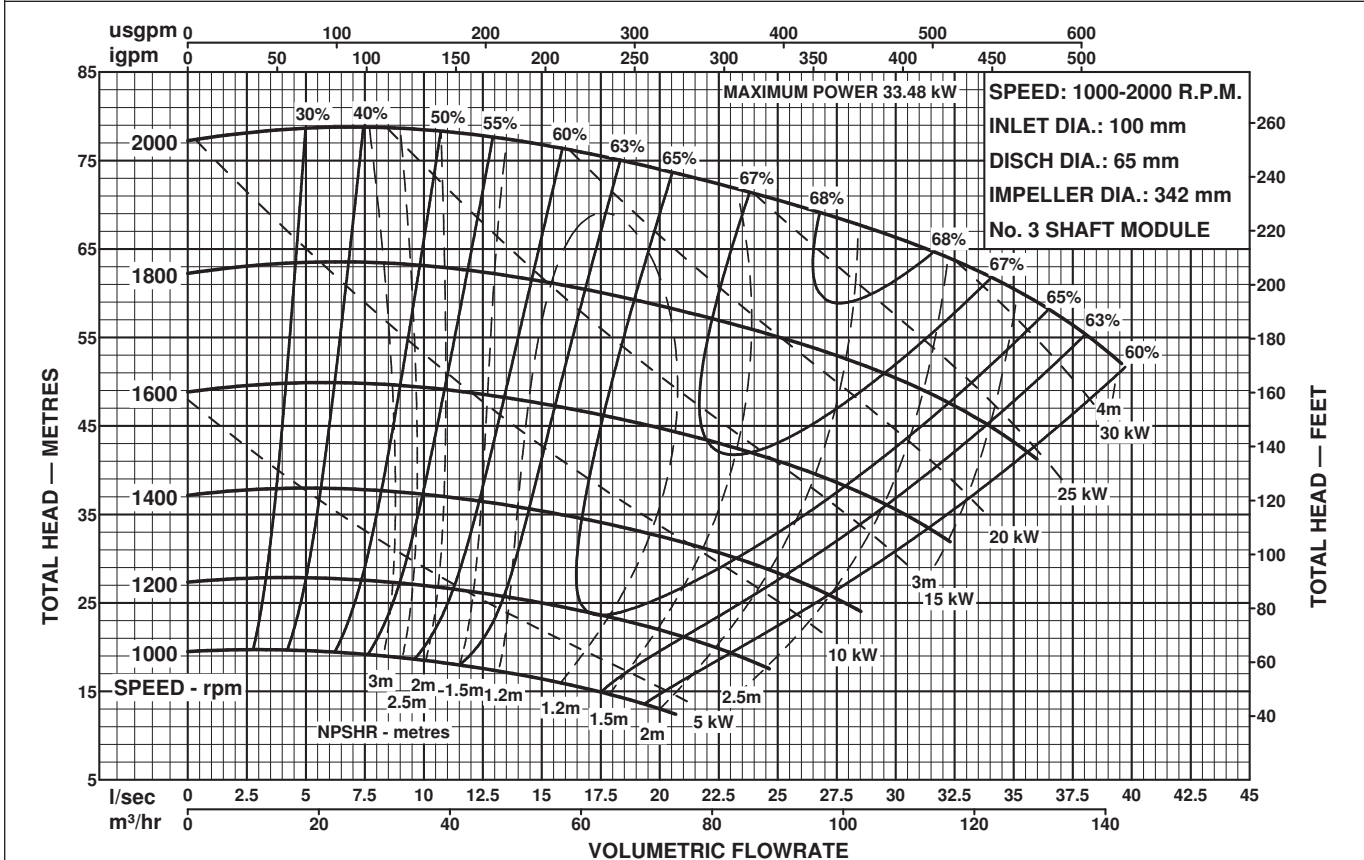


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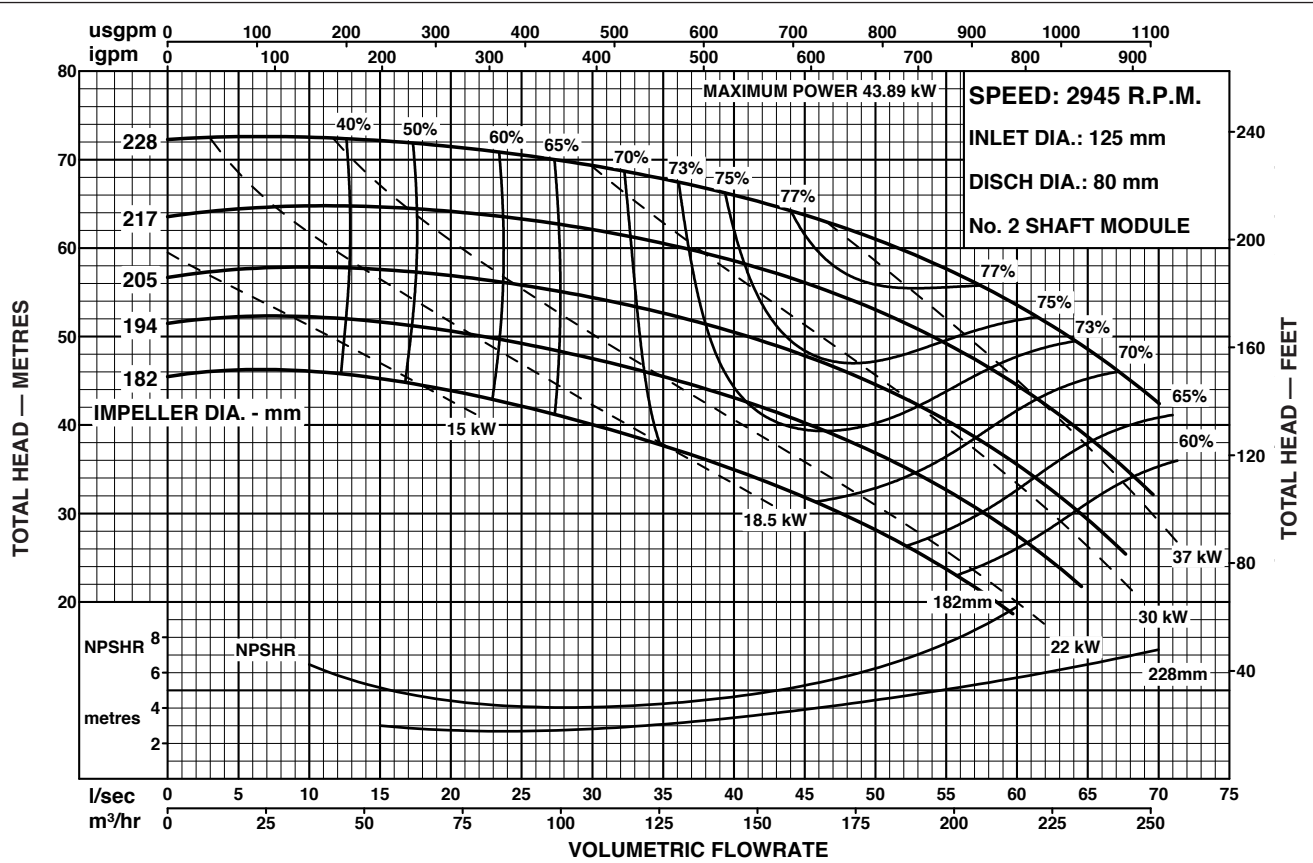
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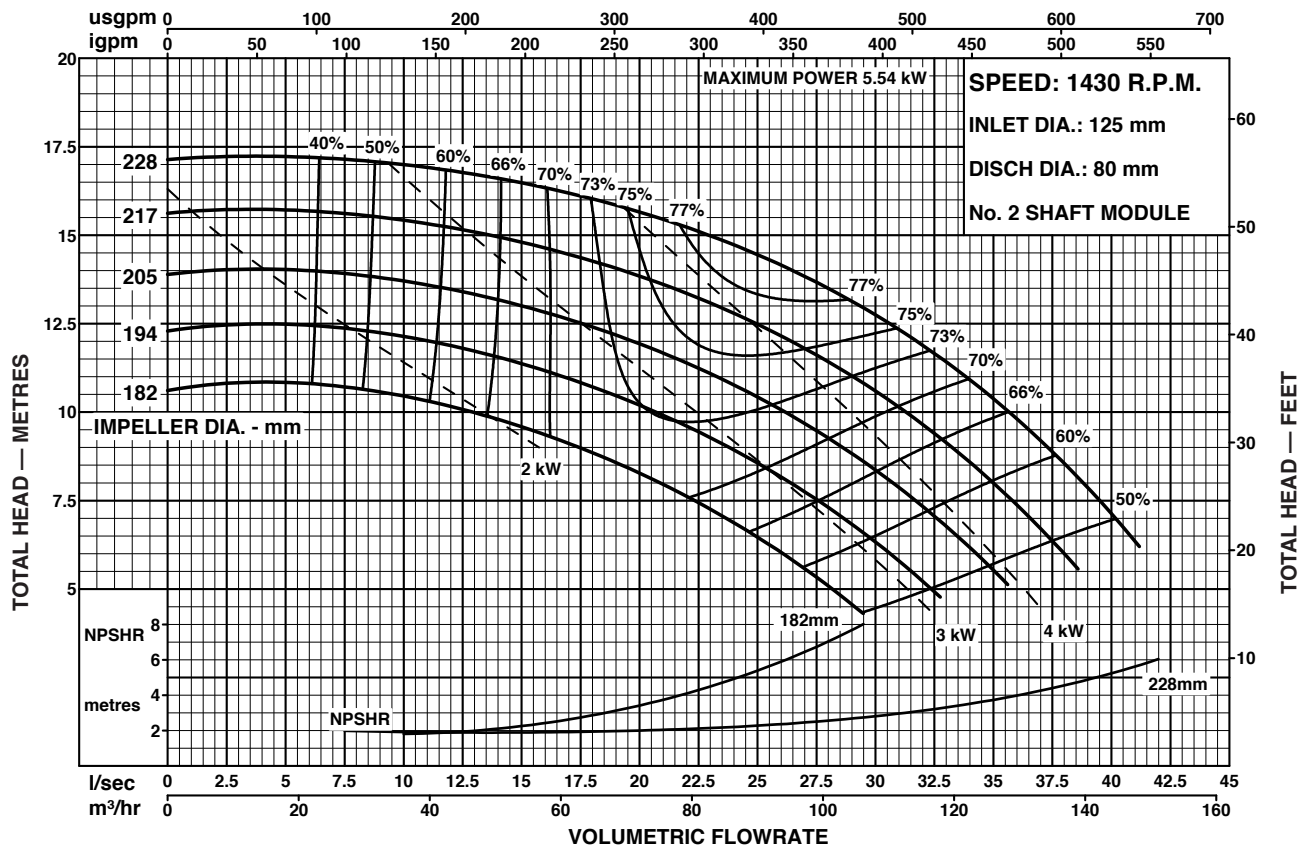
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CENTRIFUGAL PUMP PERFORMANCE DATA



Performance to AS2417 Grade 2 for clean, cold water only.

May 2005



Performance to AS2417 Grade 2 for clean, cold water only.

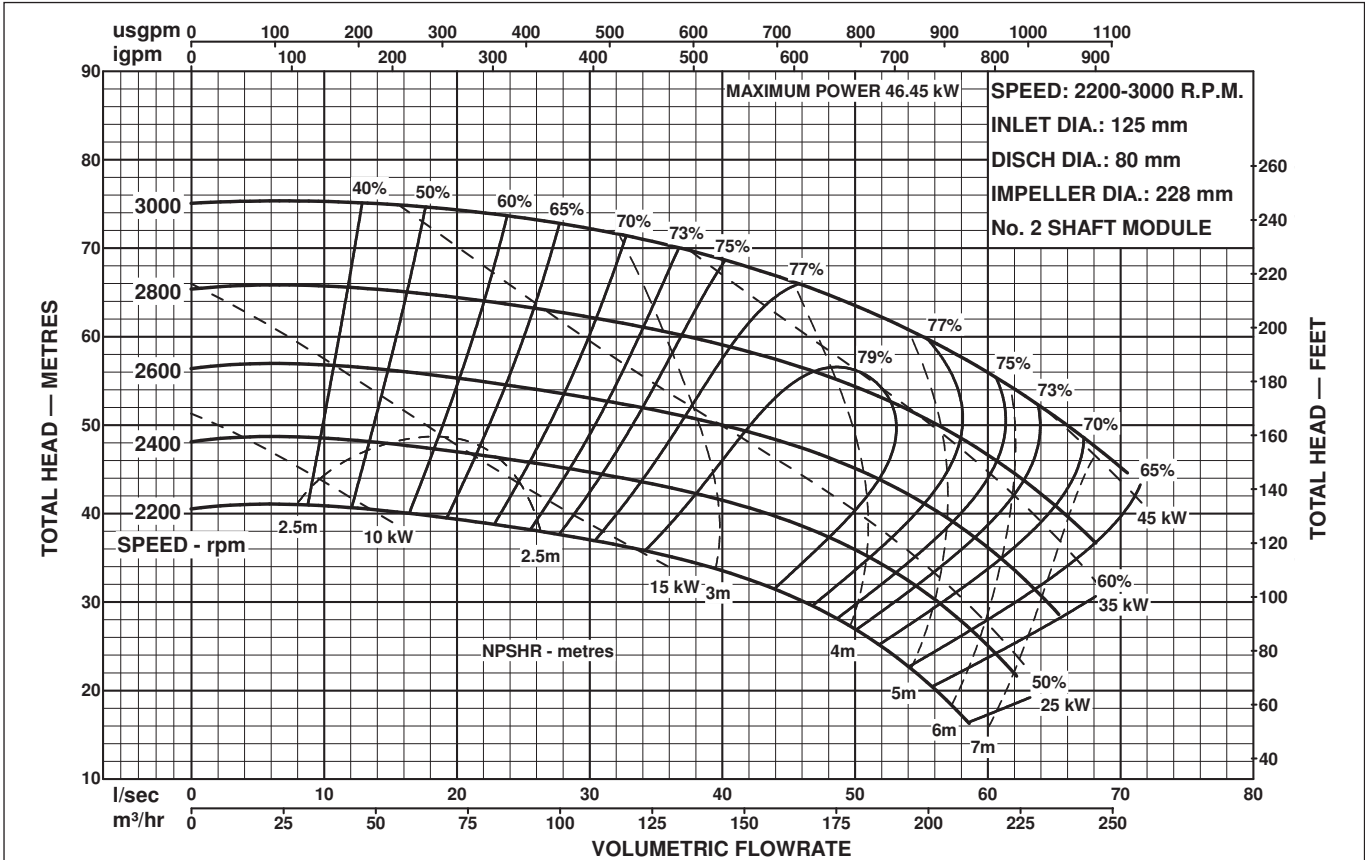
May 2005

125 x 80-200

ISO-PRO

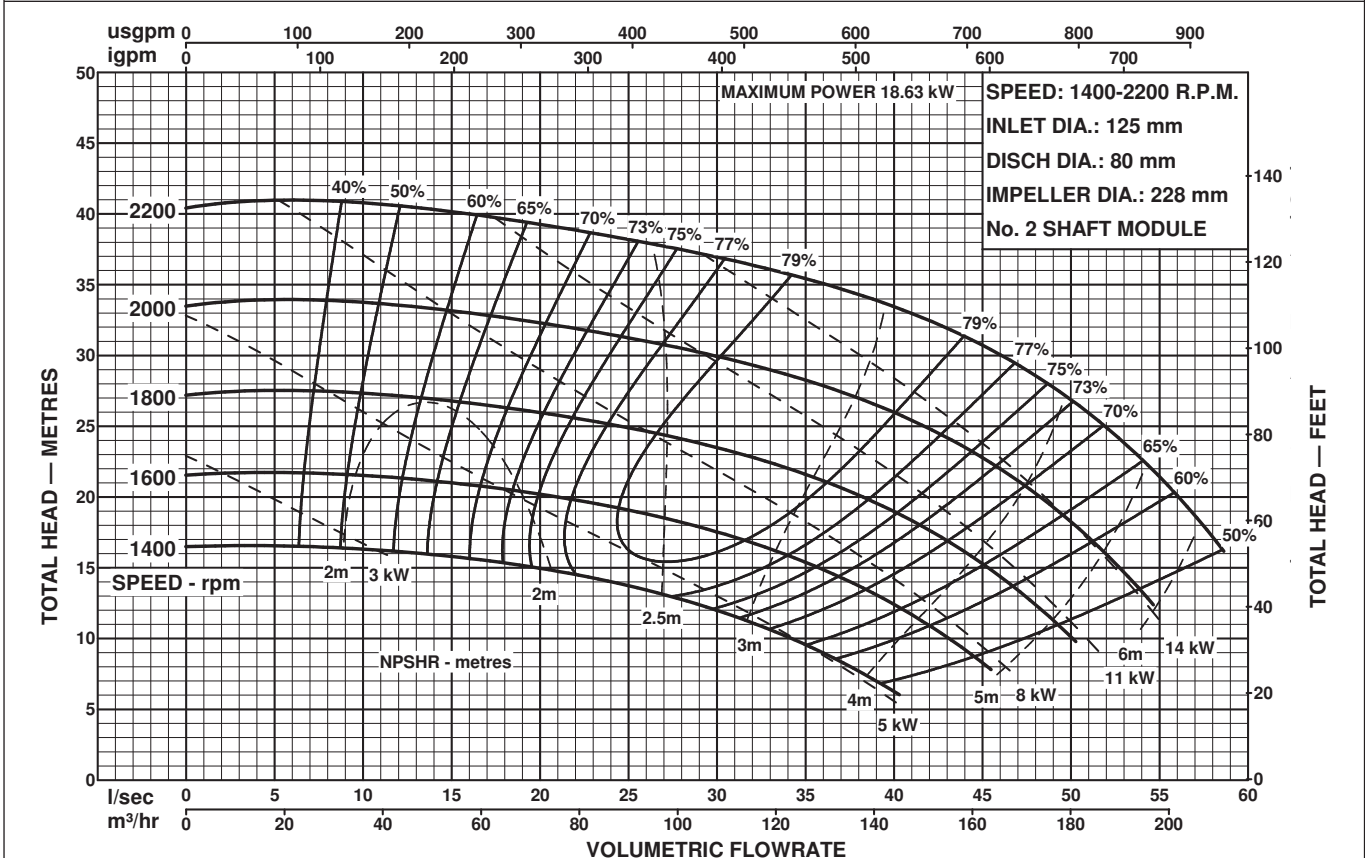


CENTRIFUGAL PUMP PERFORMANCE DATA



Performance to AS2417 Grade 2 for clean, cold water only.

May 2005



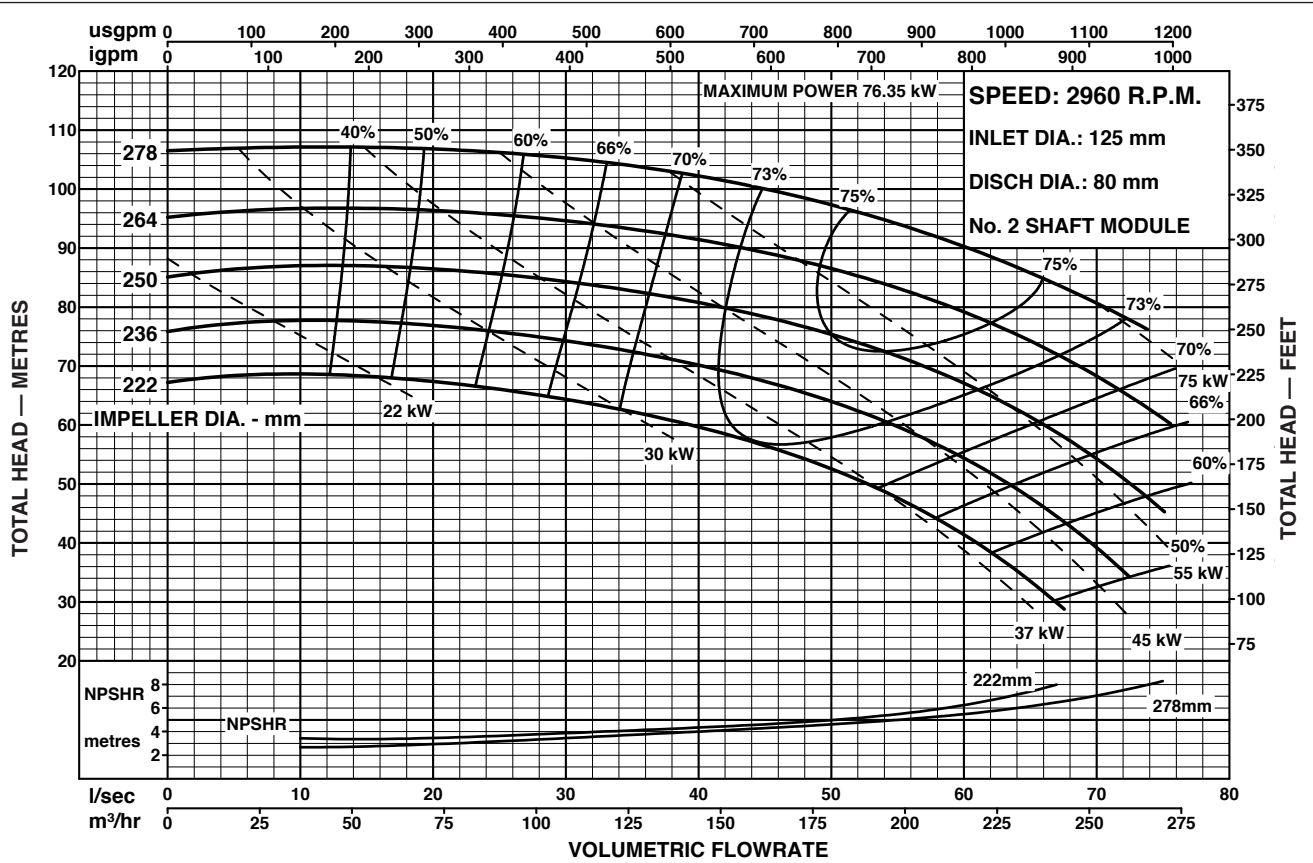
Performance to AS2417 Grade 2 for clean, cold water only.

May 2005



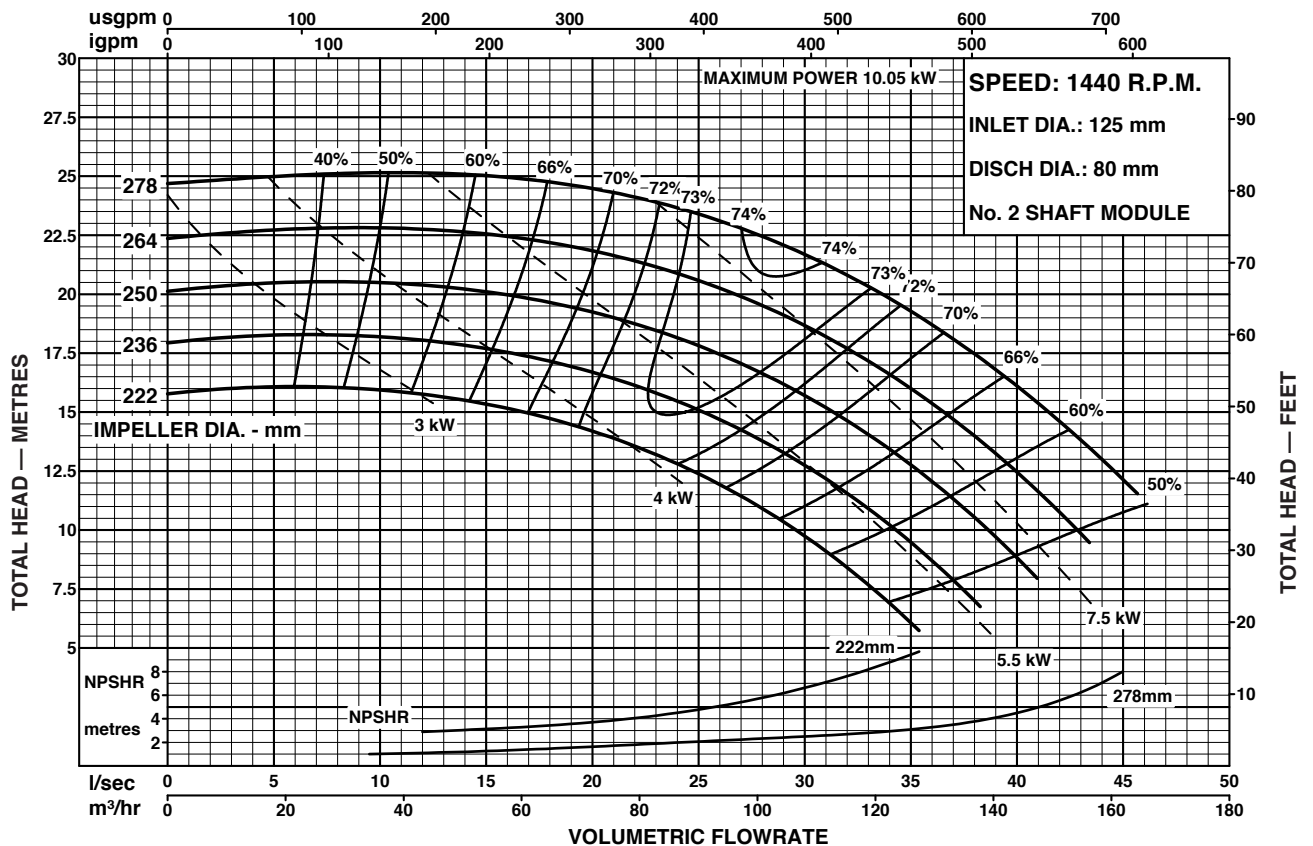
125 x 80-250

CENTRIFUGAL PUMP PERFORMANCE DATA



Performance to AS2417 Grade 2 for clean, cold water only.

May 2005



Performance to AS2417 Grade 2 for clean, cold water only.

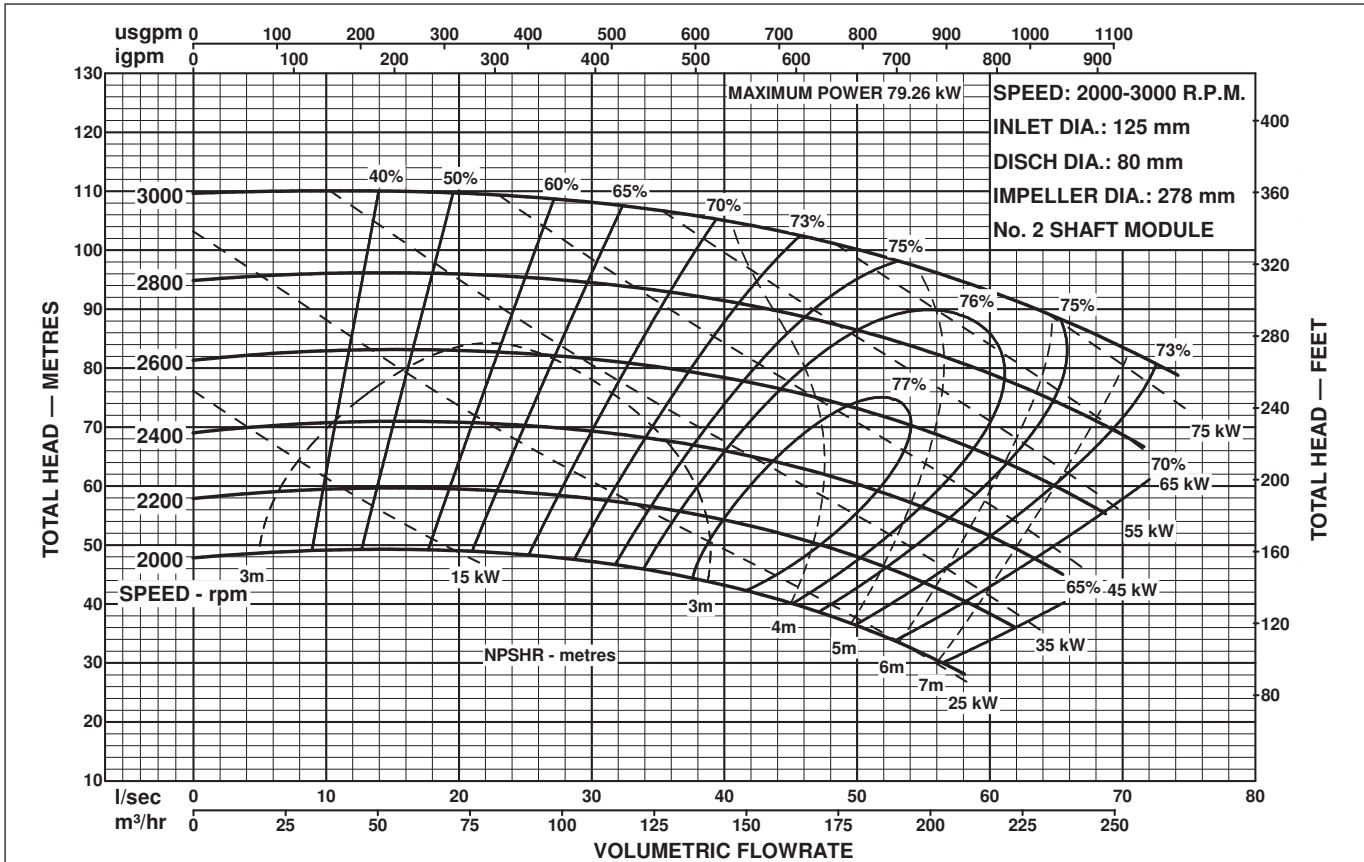
May 2005

125 x 80-250

ISO-PRO

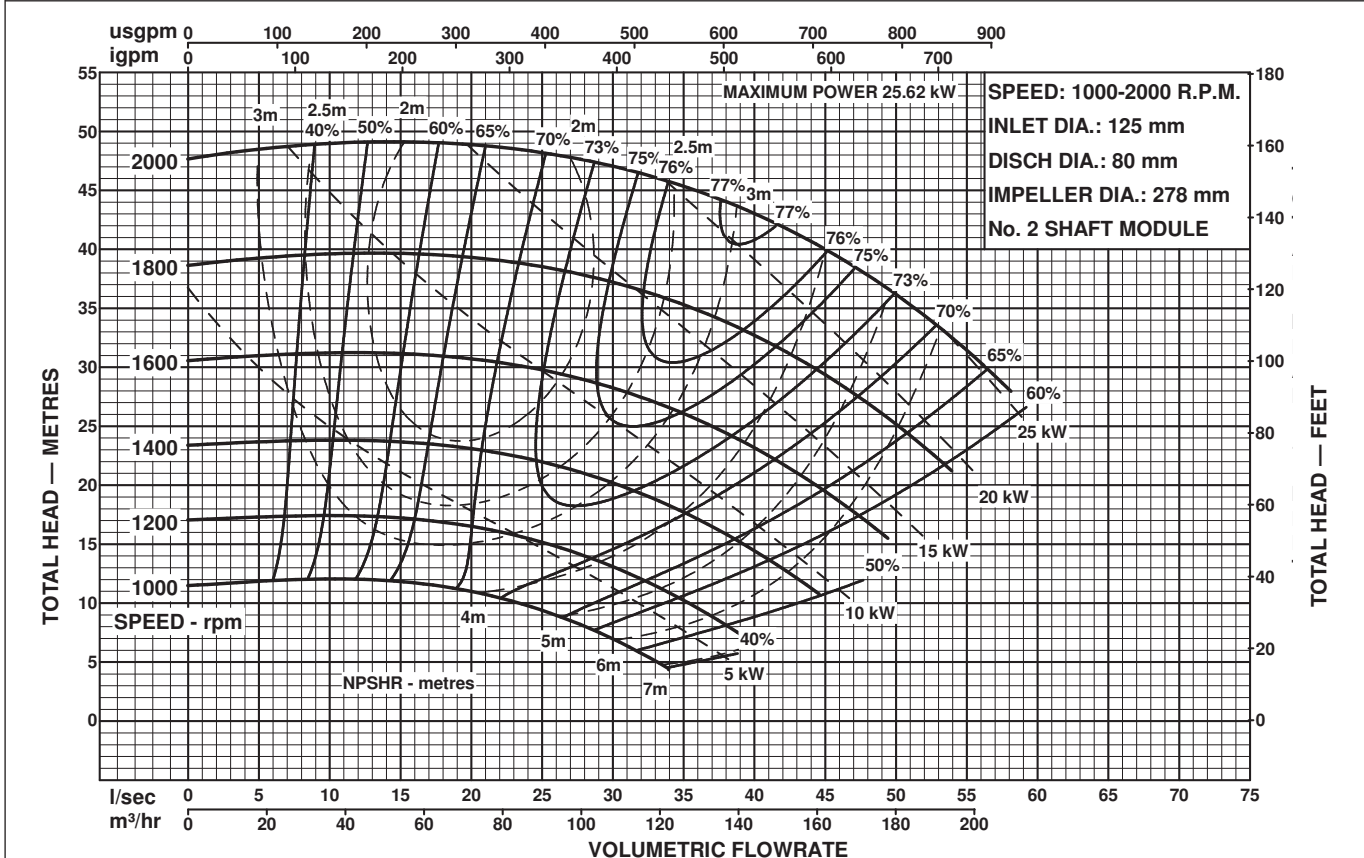


CENTRIFUGAL PUMP PERFORMANCE DATA



Performance to AS2417 Grade 2 for clean, cold water only.

May 2005



Performance to AS2417 Grade 2 for clean, cold water only.

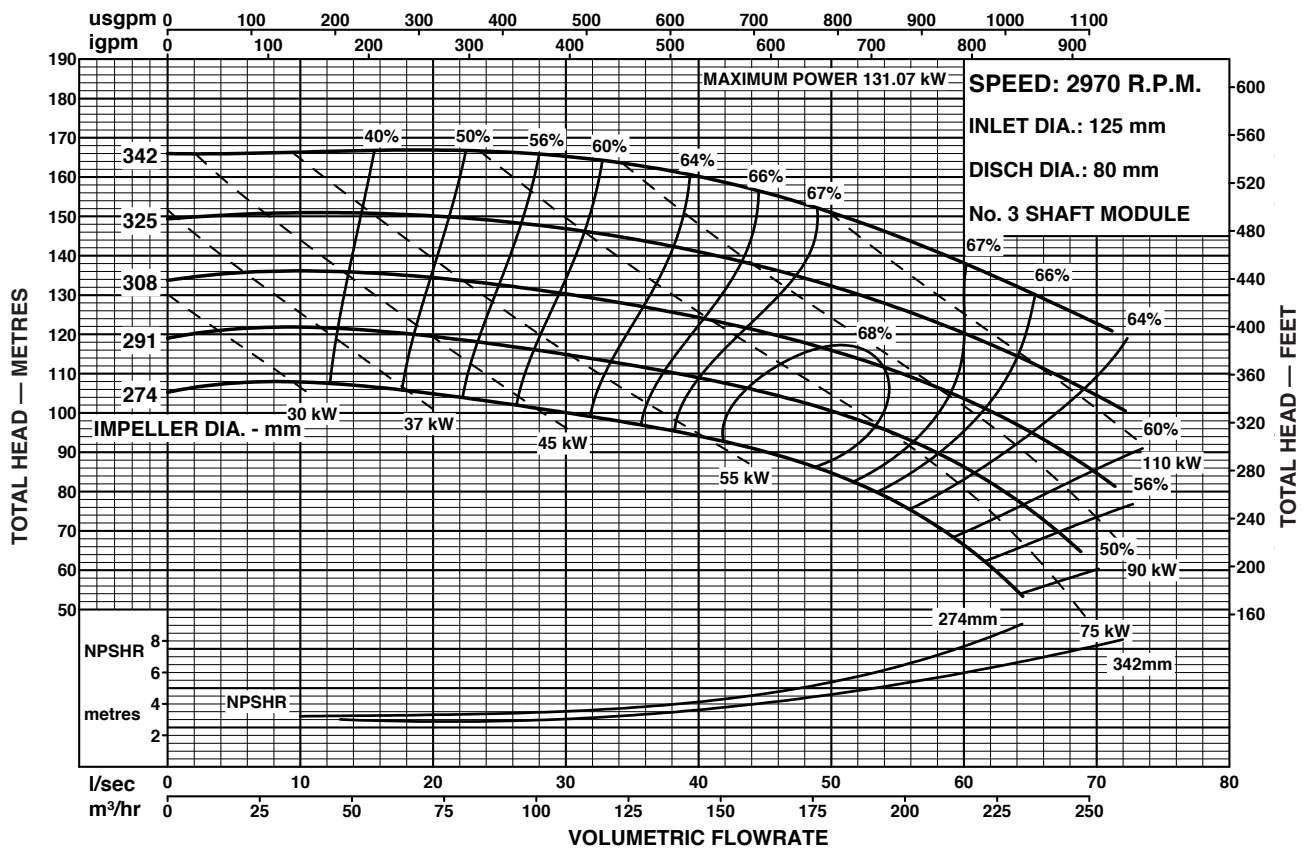
May 2005

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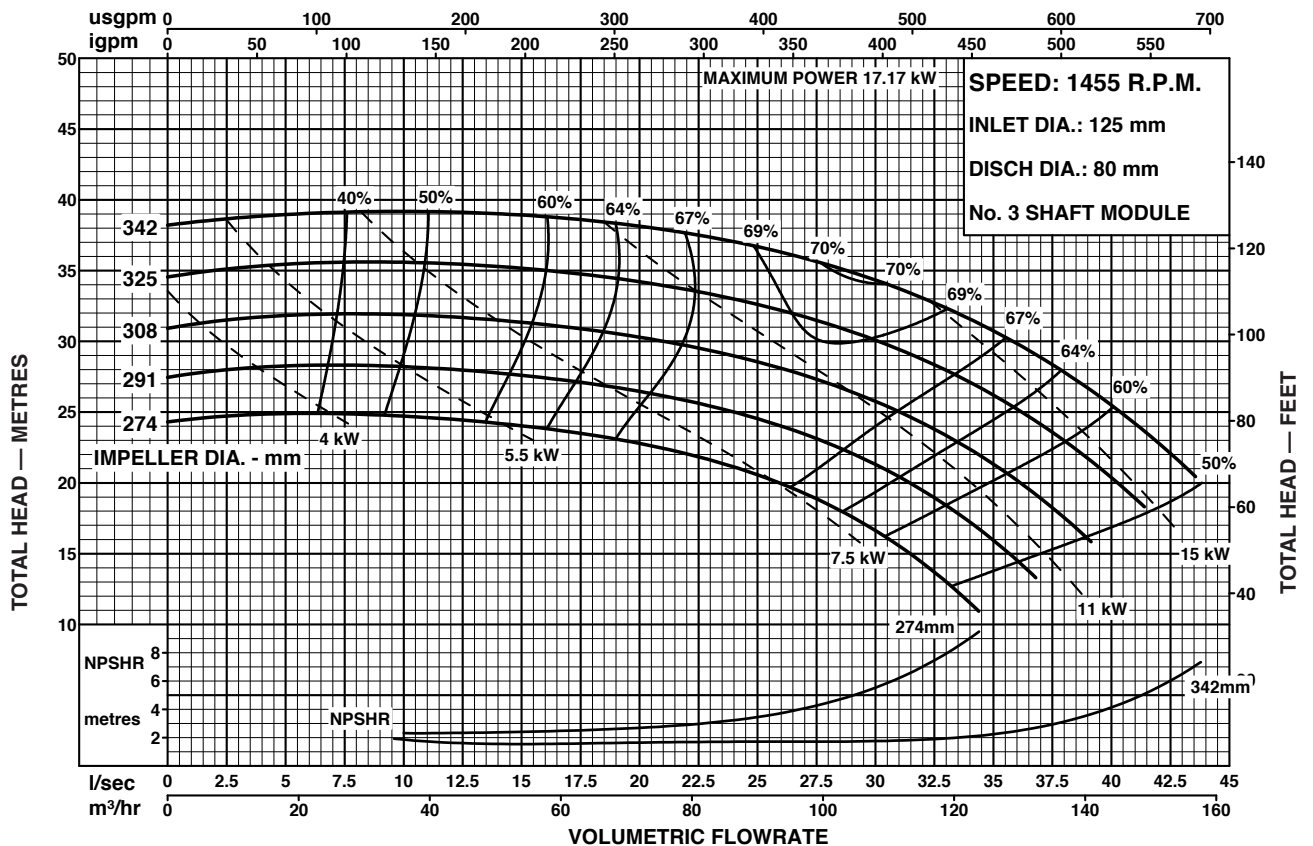
125 x 80-315

CENTRIFUGAL PUMP PERFORMANCE DATA



Performance to AS2417 Grade 2 for clean, cold water only.

May 2005



Performance to AS2417 Grade 2 for clean, cold water only.

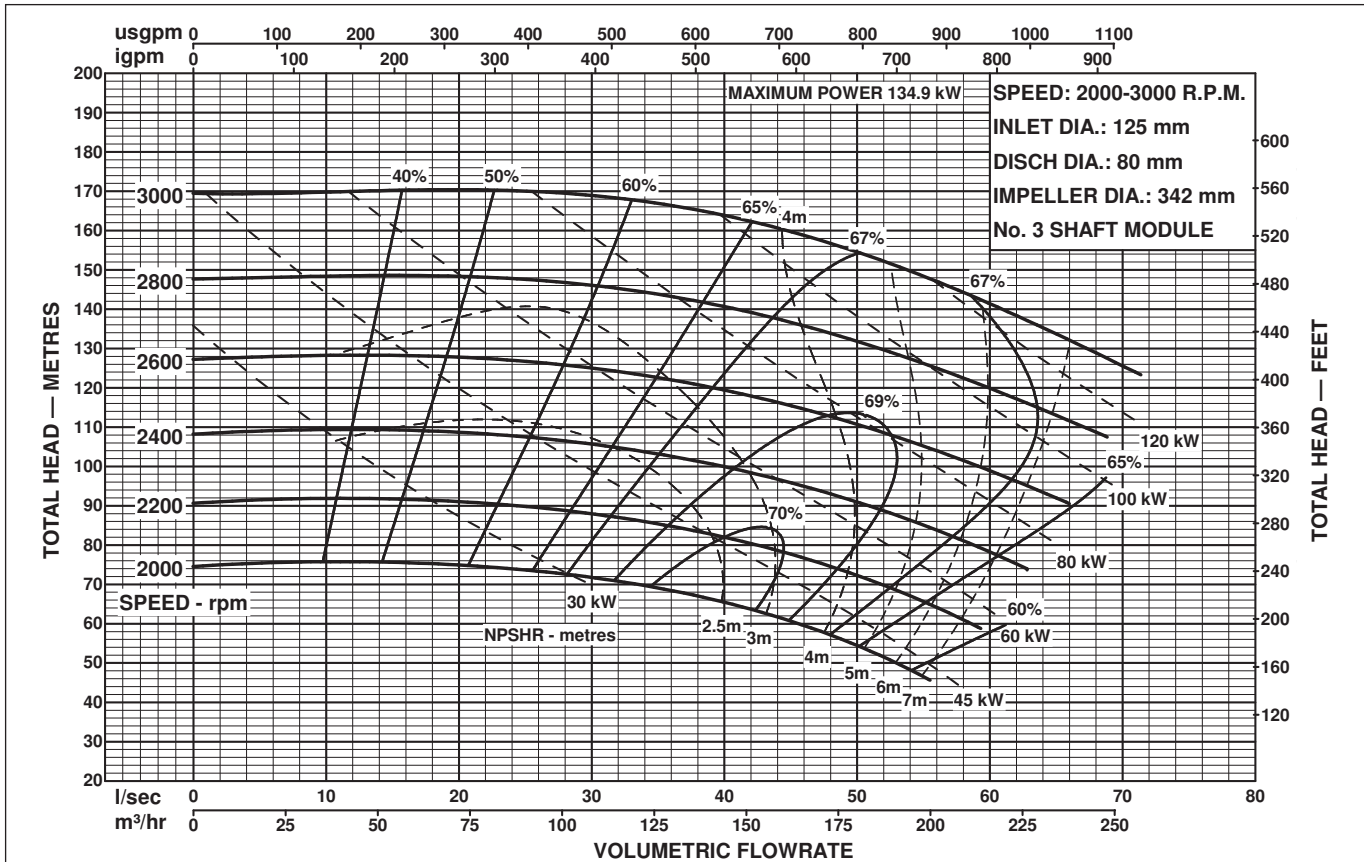
May 2005

125 x 80-315

ISO-PRO

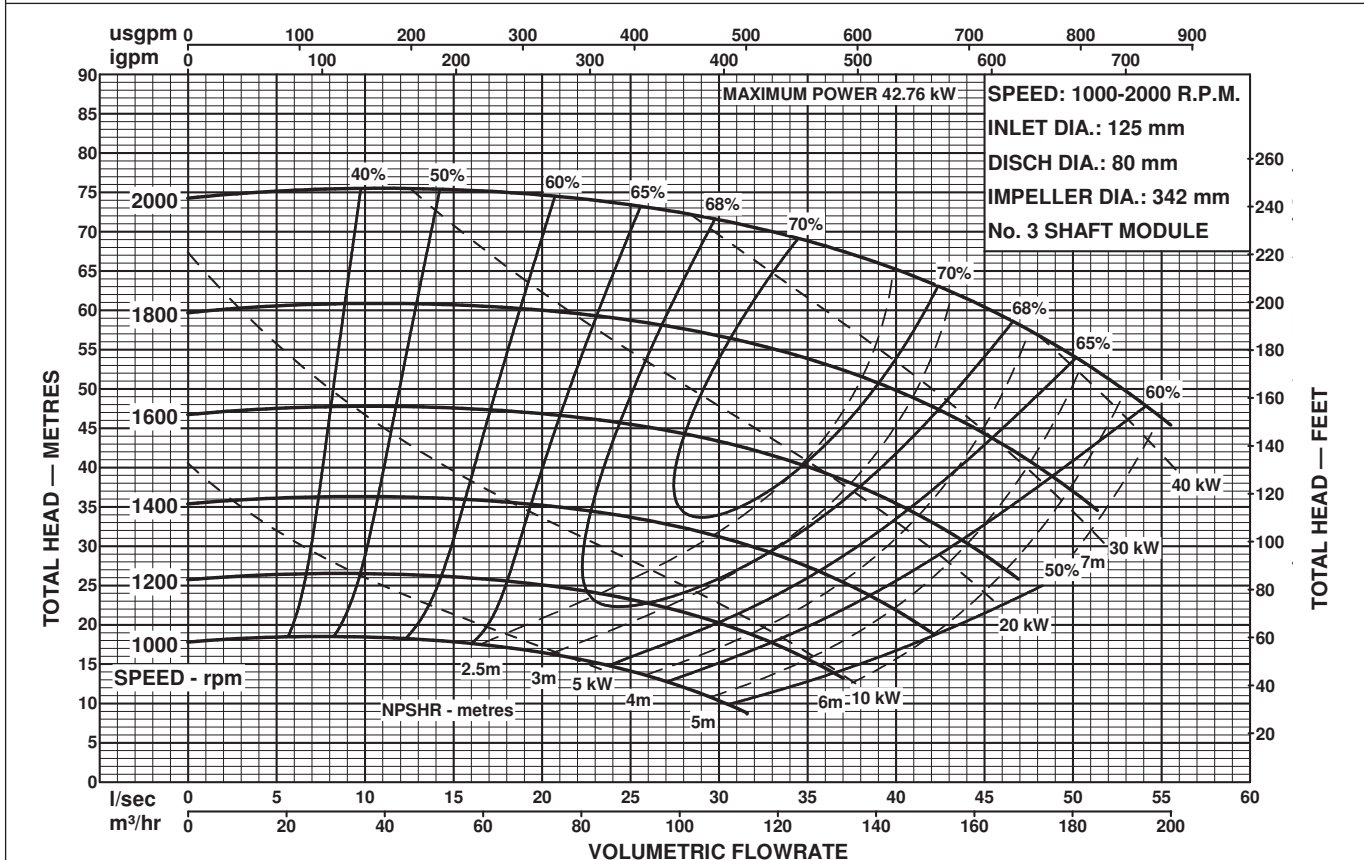


CENTRIFUGAL PUMP PERFORMANCE DATA



Performance to AS2417 Grade 2 for clean, cold water only.

May 2005



Performance to AS2417 Grade 2 for clean, cold water only.

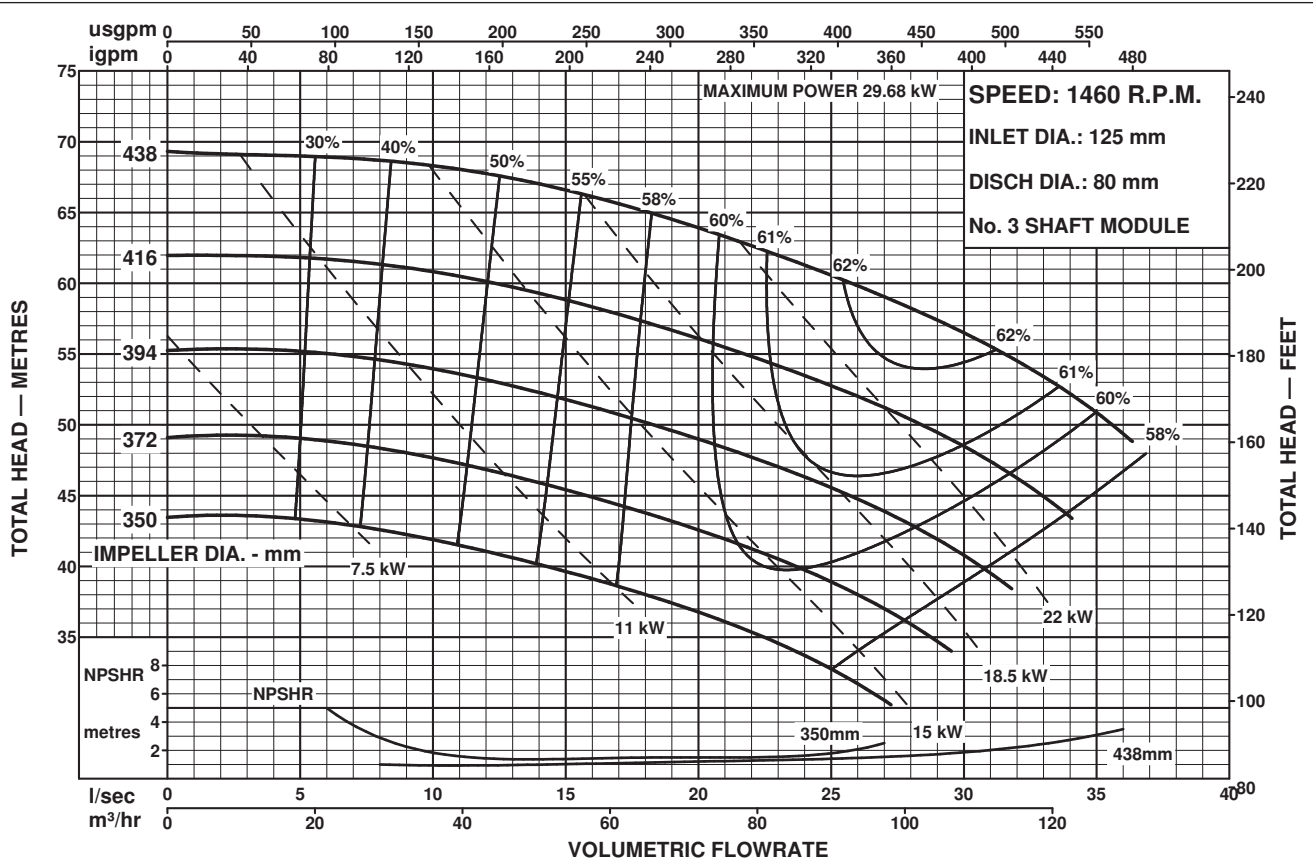
May 2005

A division of **tyco** Flow Control Pacific Pty Ltd A.B.N. 83 000 922 690



125 x 80-400

CENTRIFUGAL PUMP PERFORMANCE DATA



Performance to AS2417 Grade 2 for clean, cold water only.

May 2005

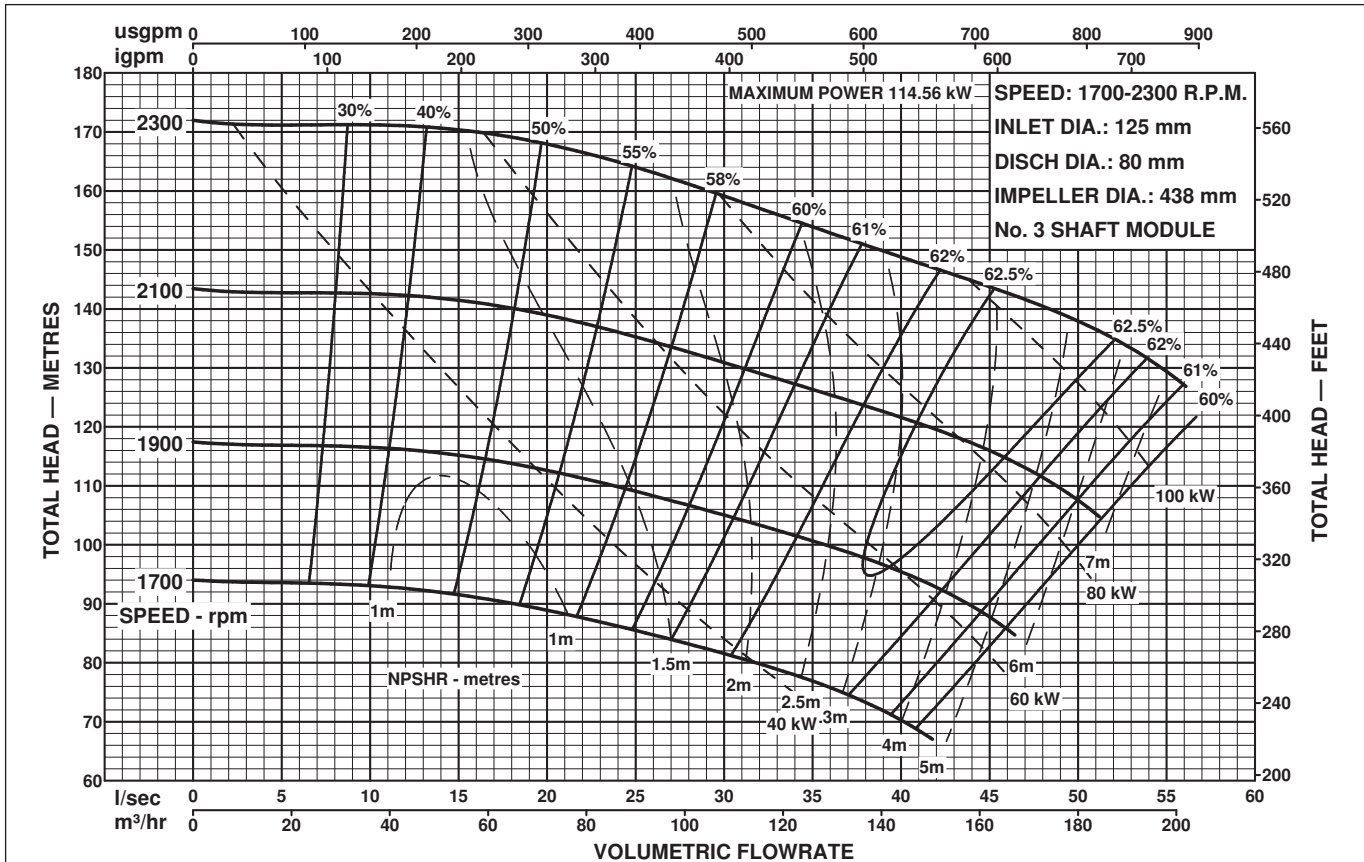
Performance to AS2417 Grade 2 for clean, cold water only.

May 2005

125 x 80-400

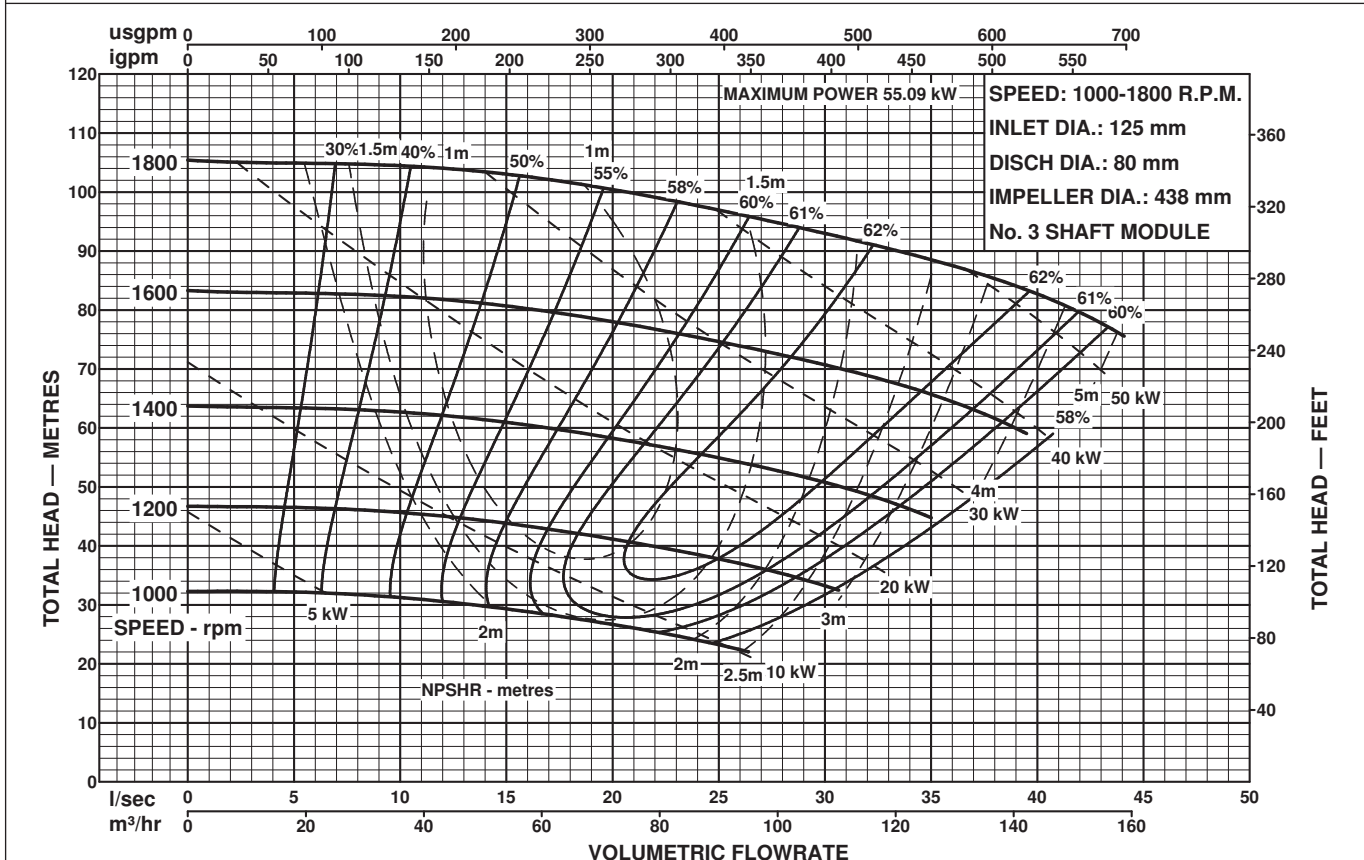


CENTRIFUGAL PUMP PERFORMANCE DATA



Performance to AS2417 Grade 2 for clean, cold water only.

May 2005



Performance to AS2417 Grade 2 for clean, cold water only.

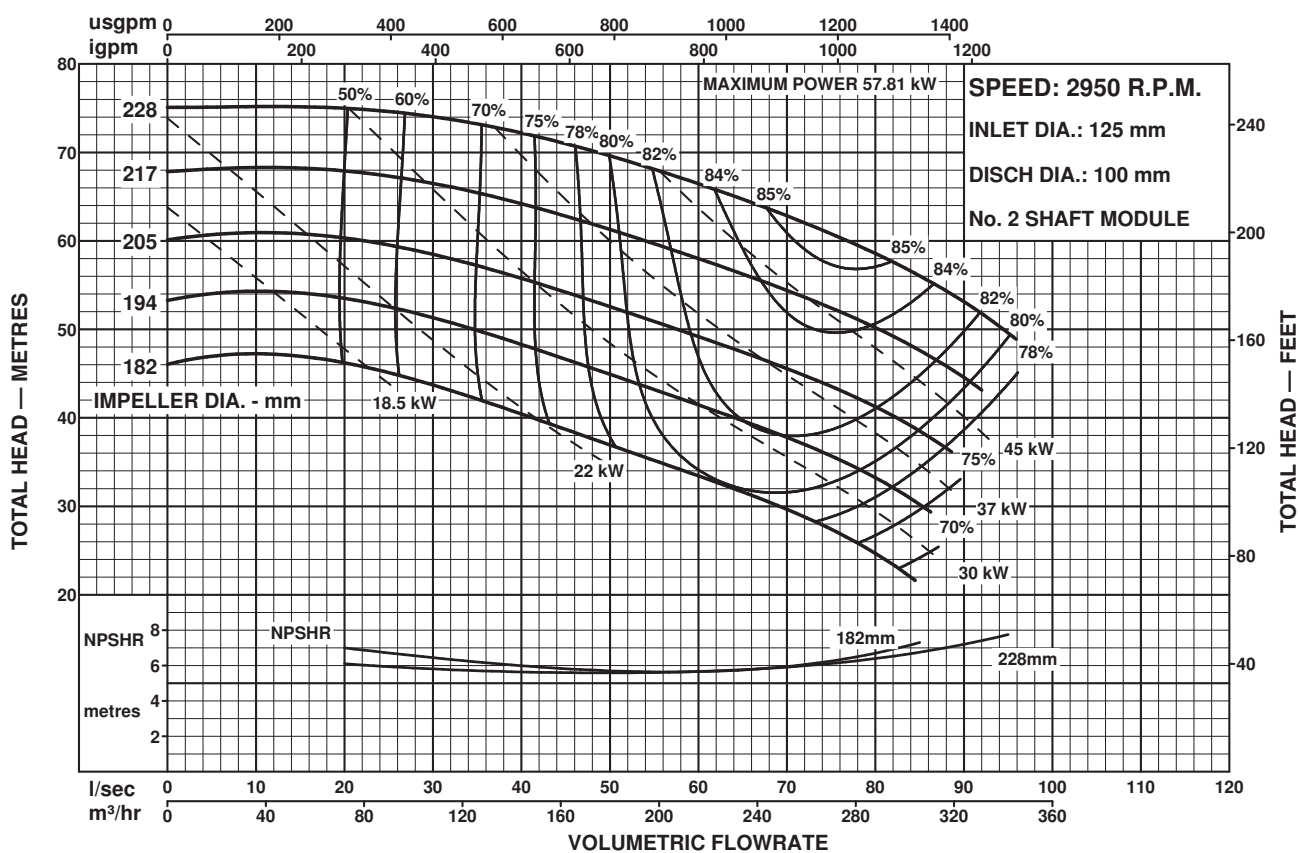
May 2005

A division of **tyco** Flow Control Pacific Pty Ltd A.B.N. 83 000 922 690



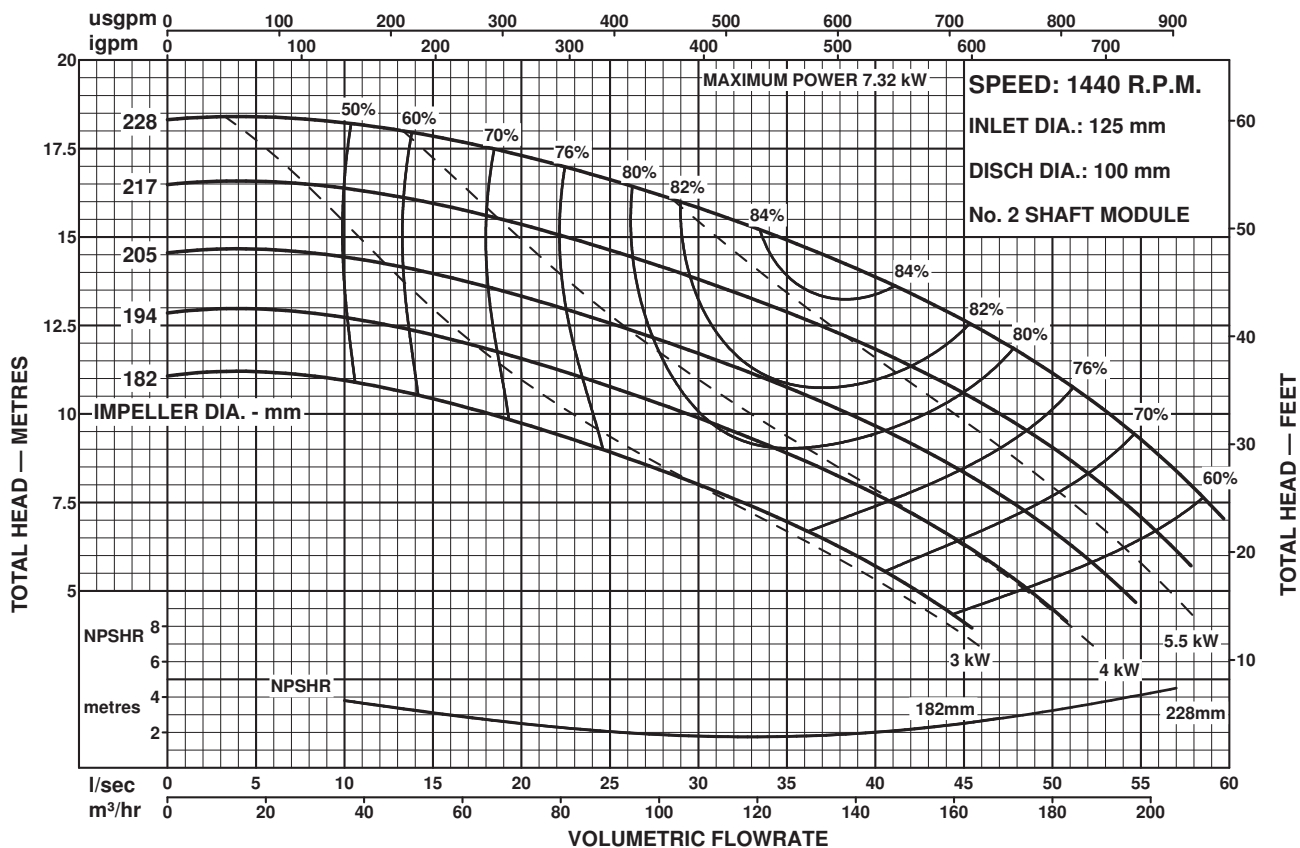
125 x 100-200

CENTRIFUGAL PUMP PERFORMANCE DATA



Performance to AS2417 Grade 2 for clean, cold water only.

May 2005



Performance to AS2417 Grade 2 for clean, cold water only.

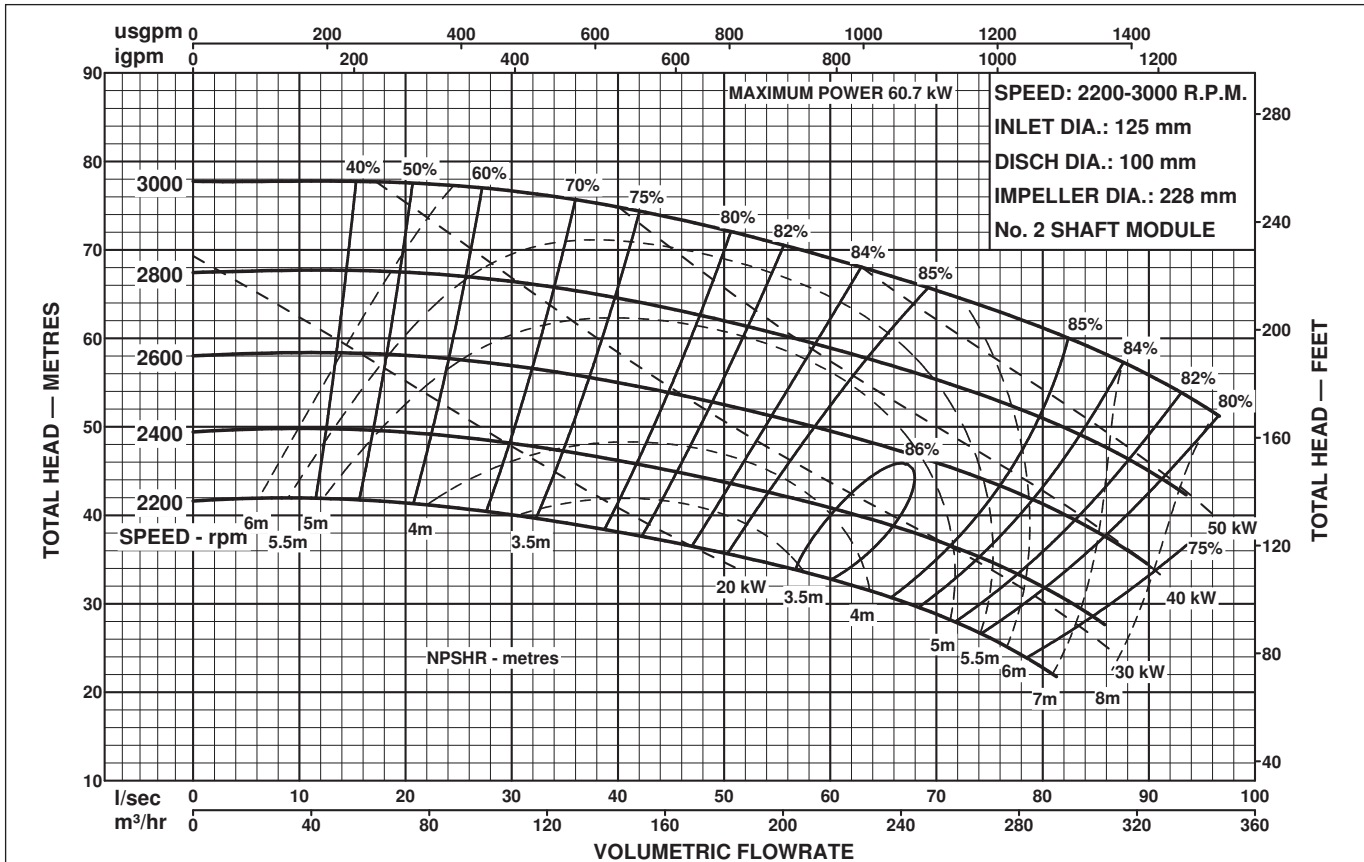
May 2005

125 x 100-200

ISO-PRO

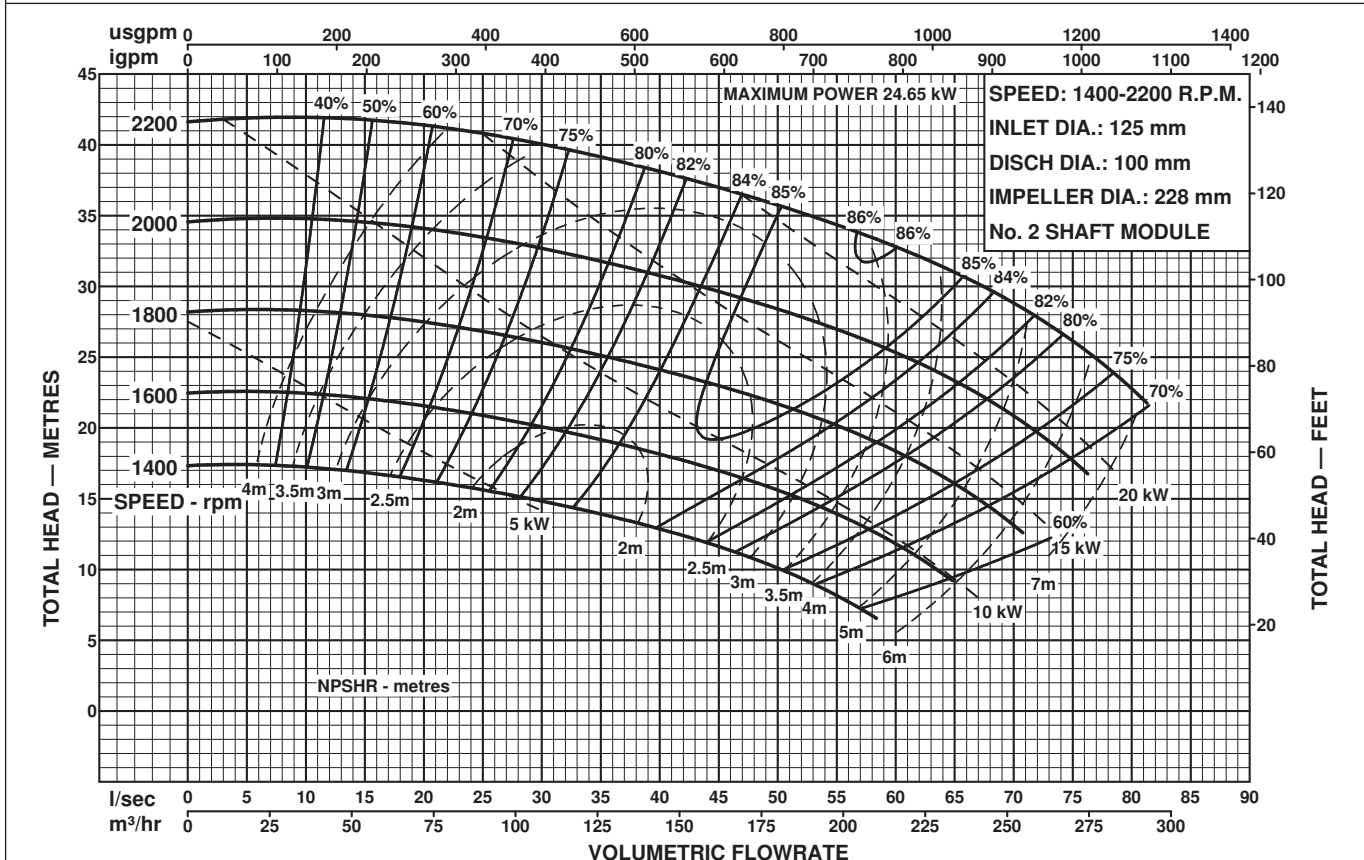


CENTRIFUGAL PUMP PERFORMANCE DATA



Performance to AS2417 Grade 2 for clean, cold water only.

May 2005



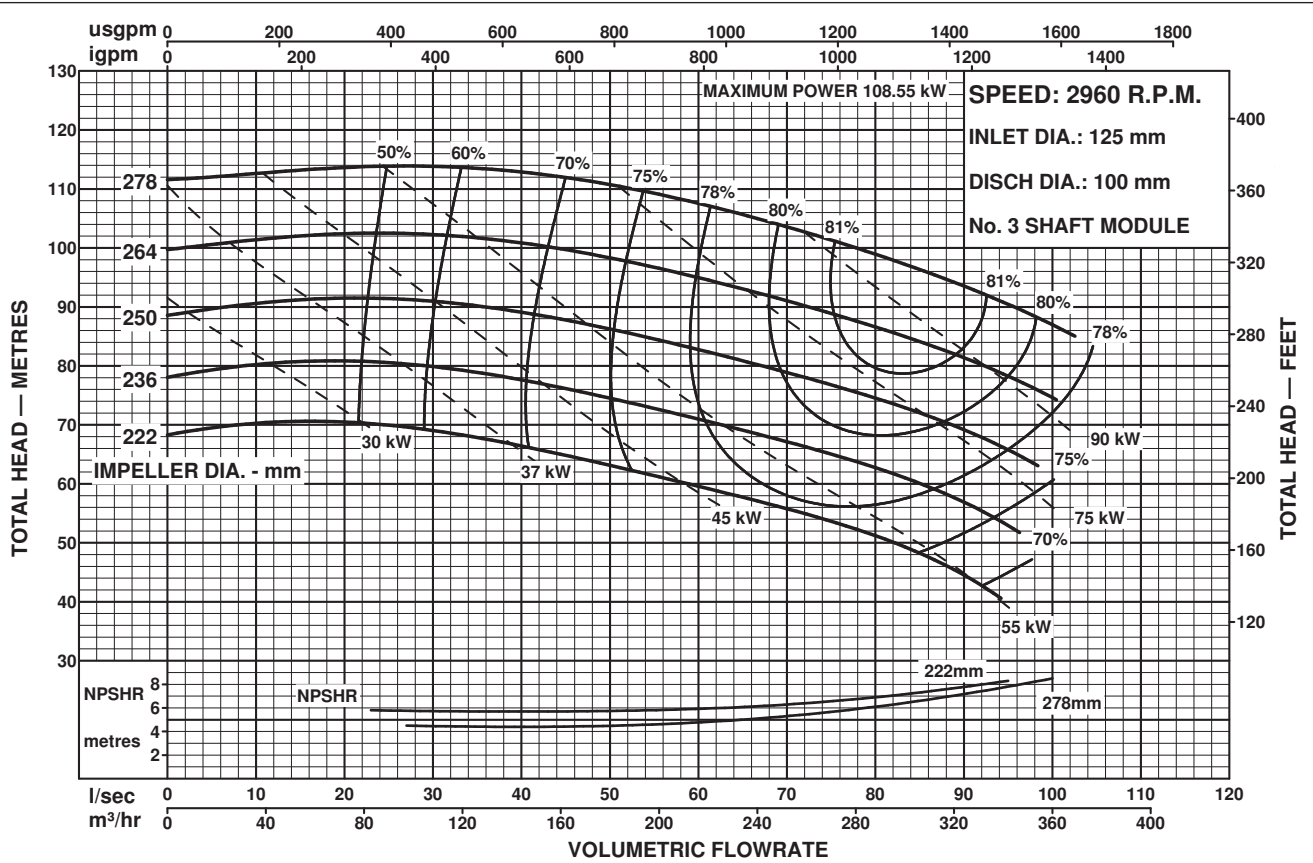
Performance to AS2417 Grade 2 for clean, cold water only.

May 2005



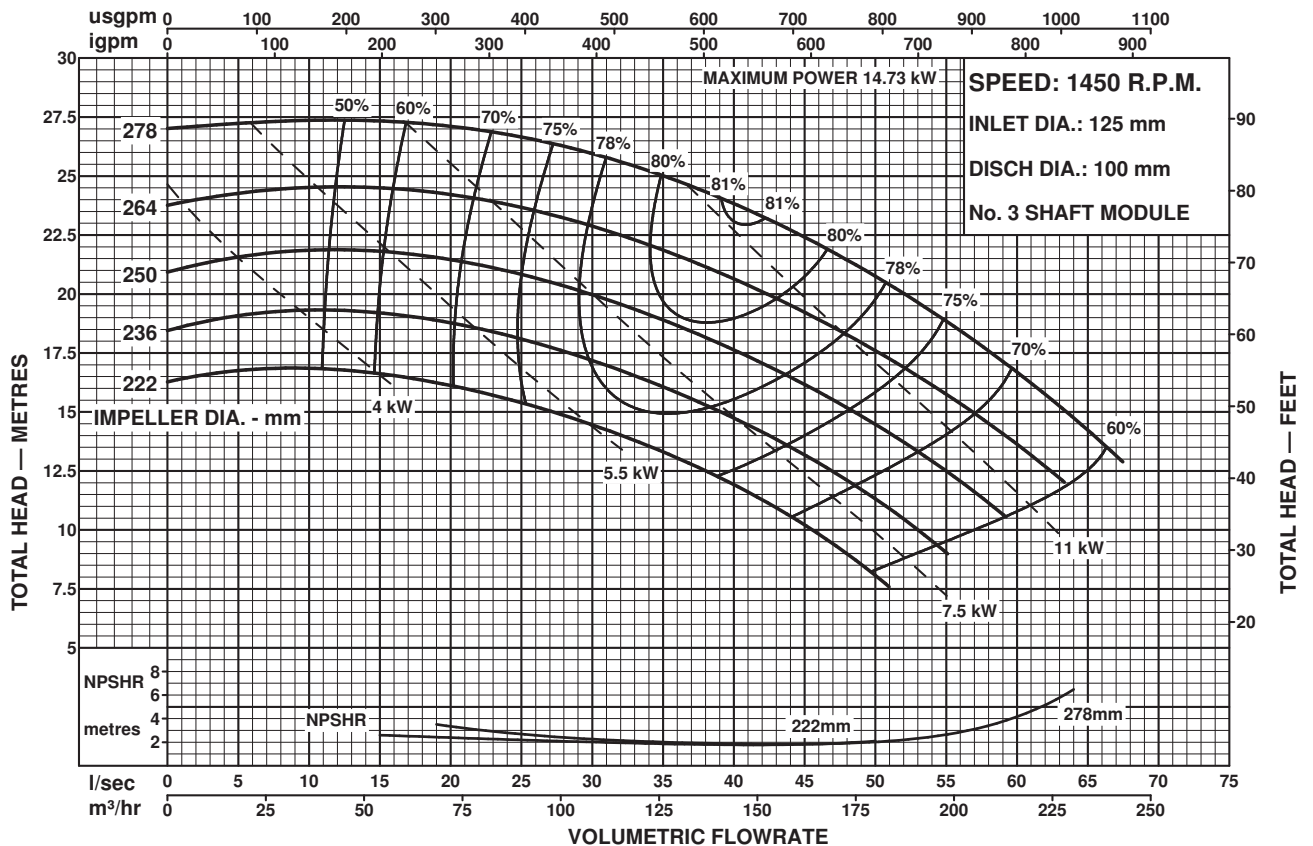
ISO-PRO 125 x 100-250

CENTRIFUGAL PUMP PERFORMANCE DATA



Performance to AS2417 Grade 2 for clean, cold water only.

May 2005



Performance to AS2417 Grade 2 for clean, cold water only.

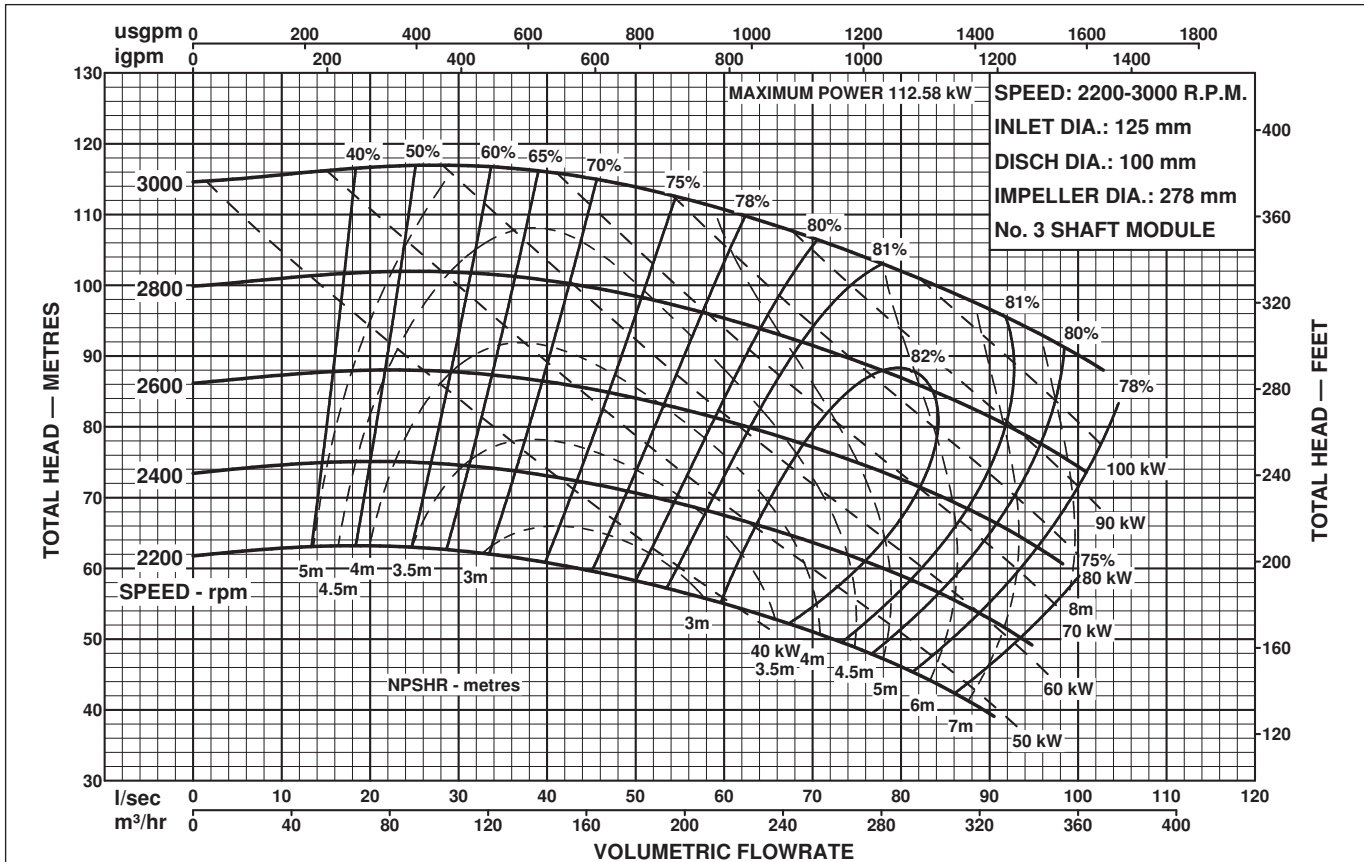
May 2005

125 x 100-250

ISO-PRO

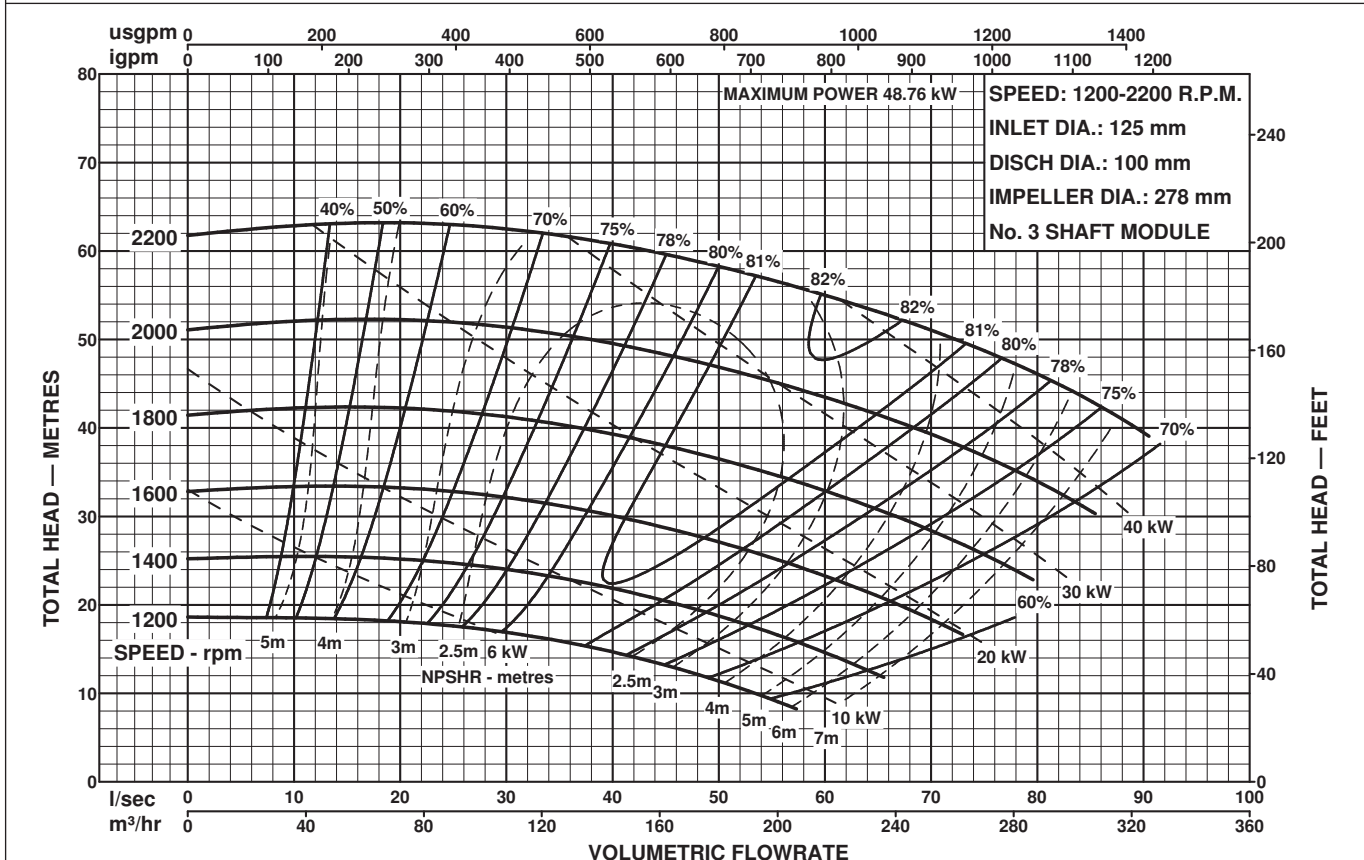


CENTRIFUGAL PUMP PERFORMANCE DATA



Performance to AS2417 Grade 2 for clean, cold water only.

May 2005



Performance to AS2417 Grade 2 for clean, cold water only.

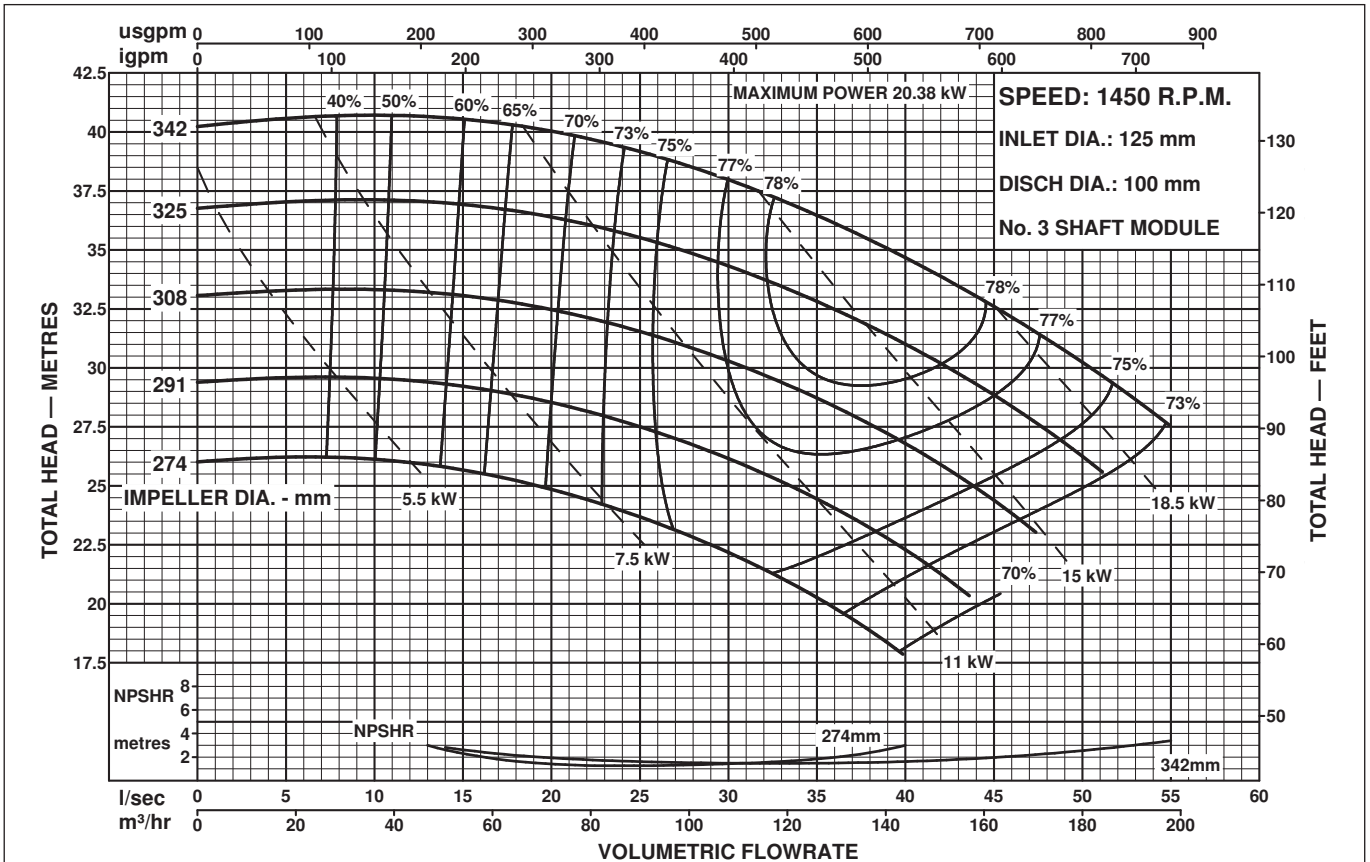
May 2005

A division of **tyco** Flow Control Pacific Pty Ltd A.B.N. 83 000 922 690



ISO-PRO 125 x 100-315

CENTRIFUGAL PUMP PERFORMANCE DATA



Performance to AS2417 Grade 2 for clean, cold water only.

May 2005

Performance to AS2417 Grade 2 for clean, cold water only.

May 2005

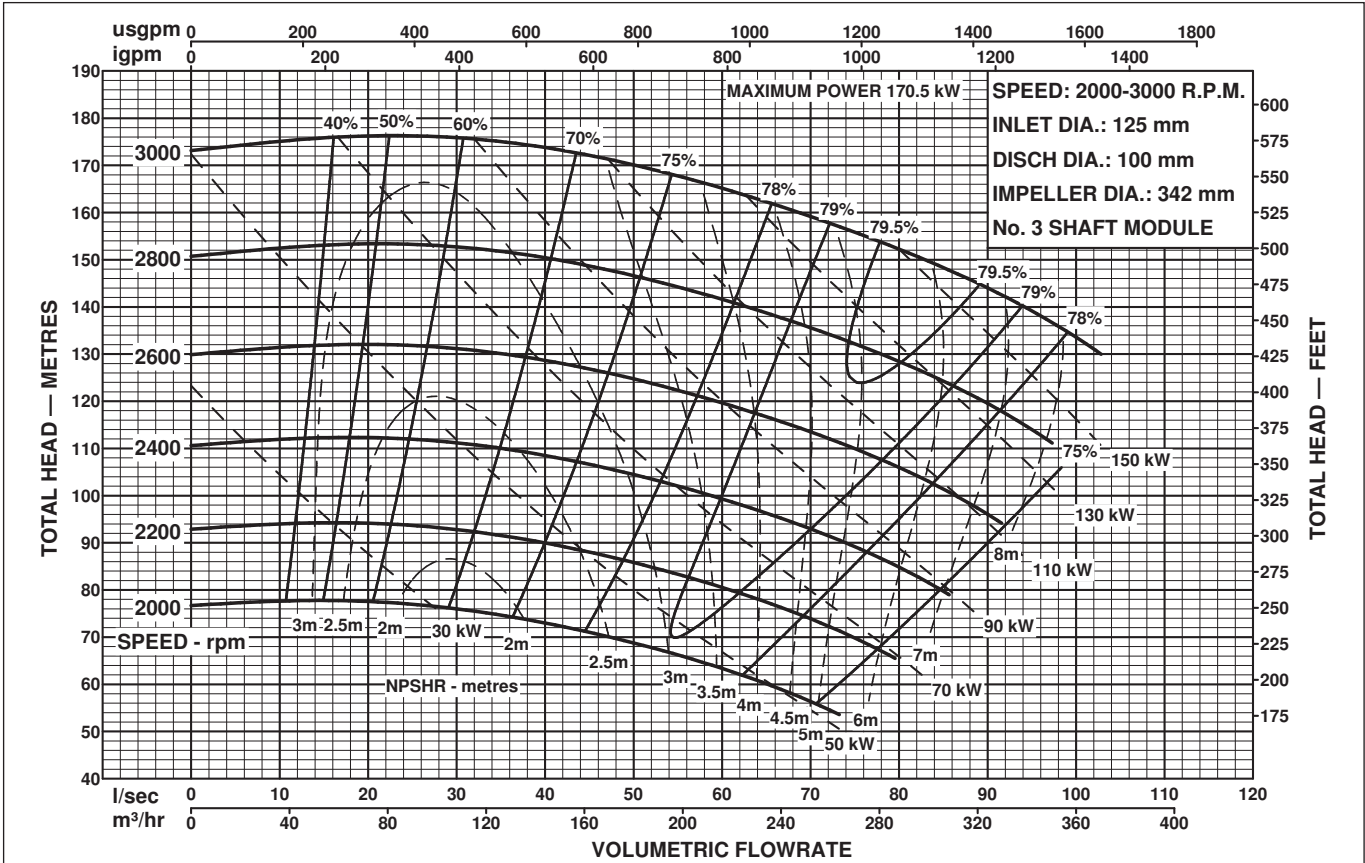
A division of **tyco** Flow Control Pacific Pty Ltd A.B.N. 83 000 922 690

125 x 100-315

ISO-PRO

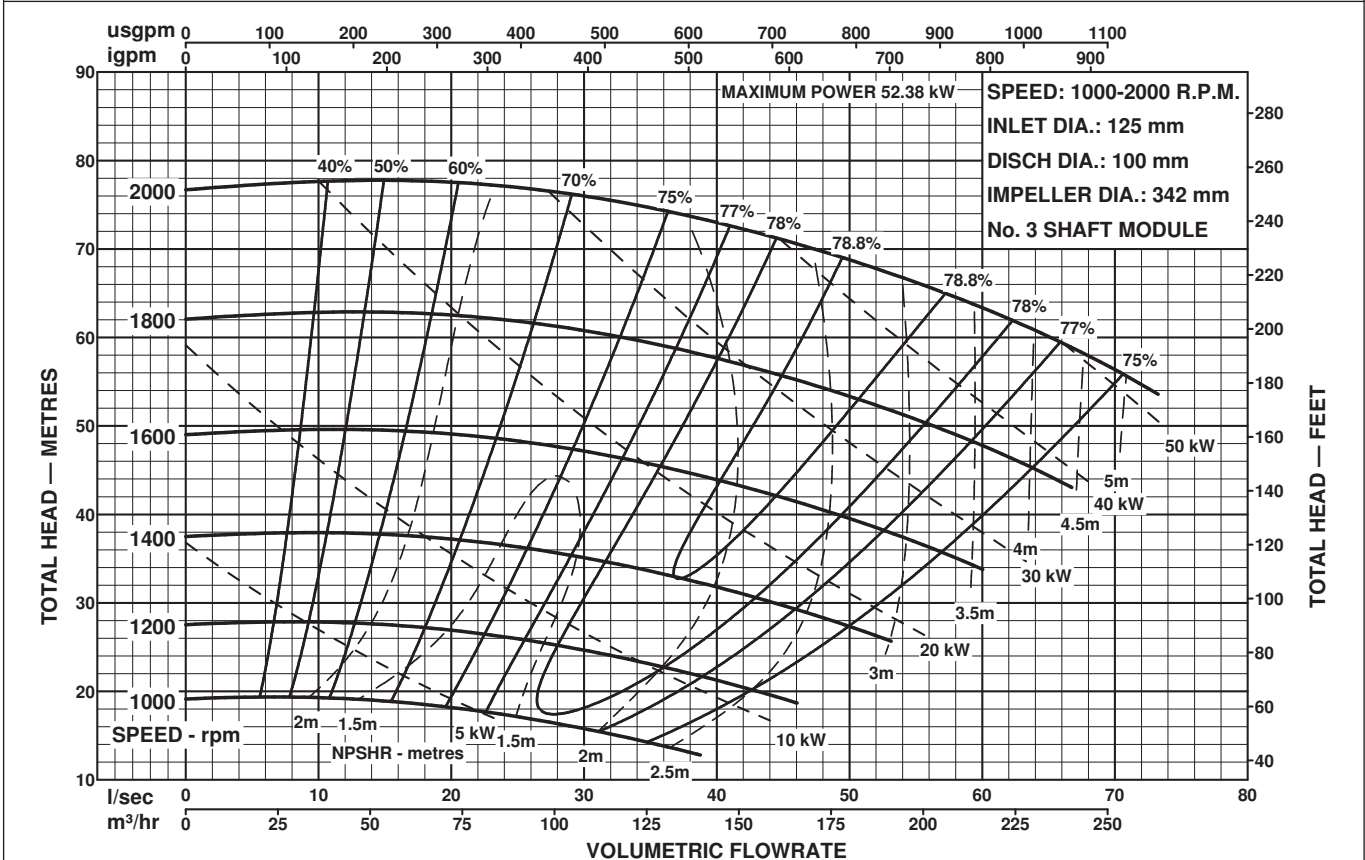


CENTRIFUGAL PUMP PERFORMANCE DATA



Performance to AS2417 Grade 2 for clean, cold water only.

May 2005



Performance to AS2417 Grade 2 for clean, cold water only.

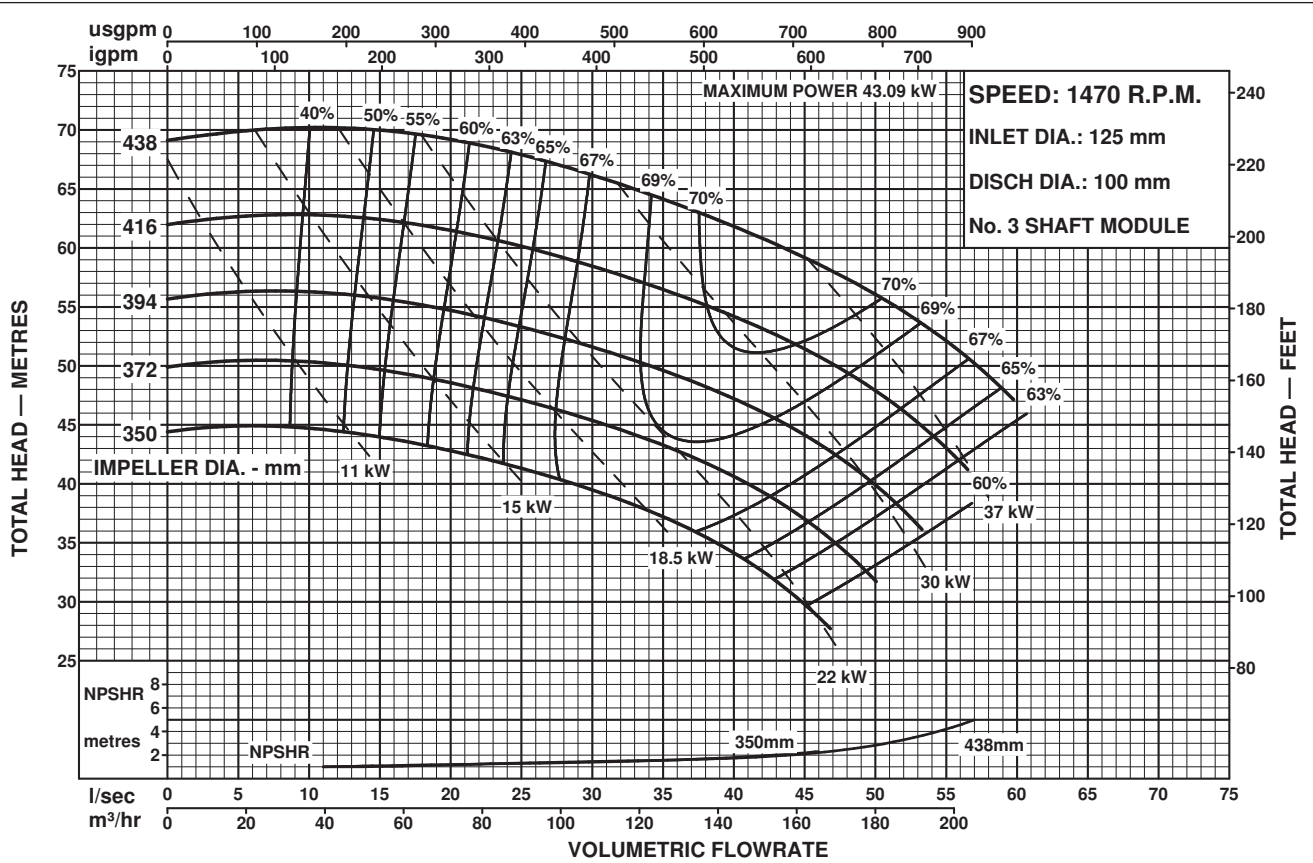
May 2005

A division of **tyco** Flow Control Pacific Pty Ltd A.B.N. 83 000 922 690



ISO-PRO 125 x 100-400

CENTRIFUGAL PUMP PERFORMANCE DATA



Performance to AS2417 Grade 2 for clean, cold water only.

May 2005

Performance to AS2417 Grade 2 for clean, cold water only.

May 2005

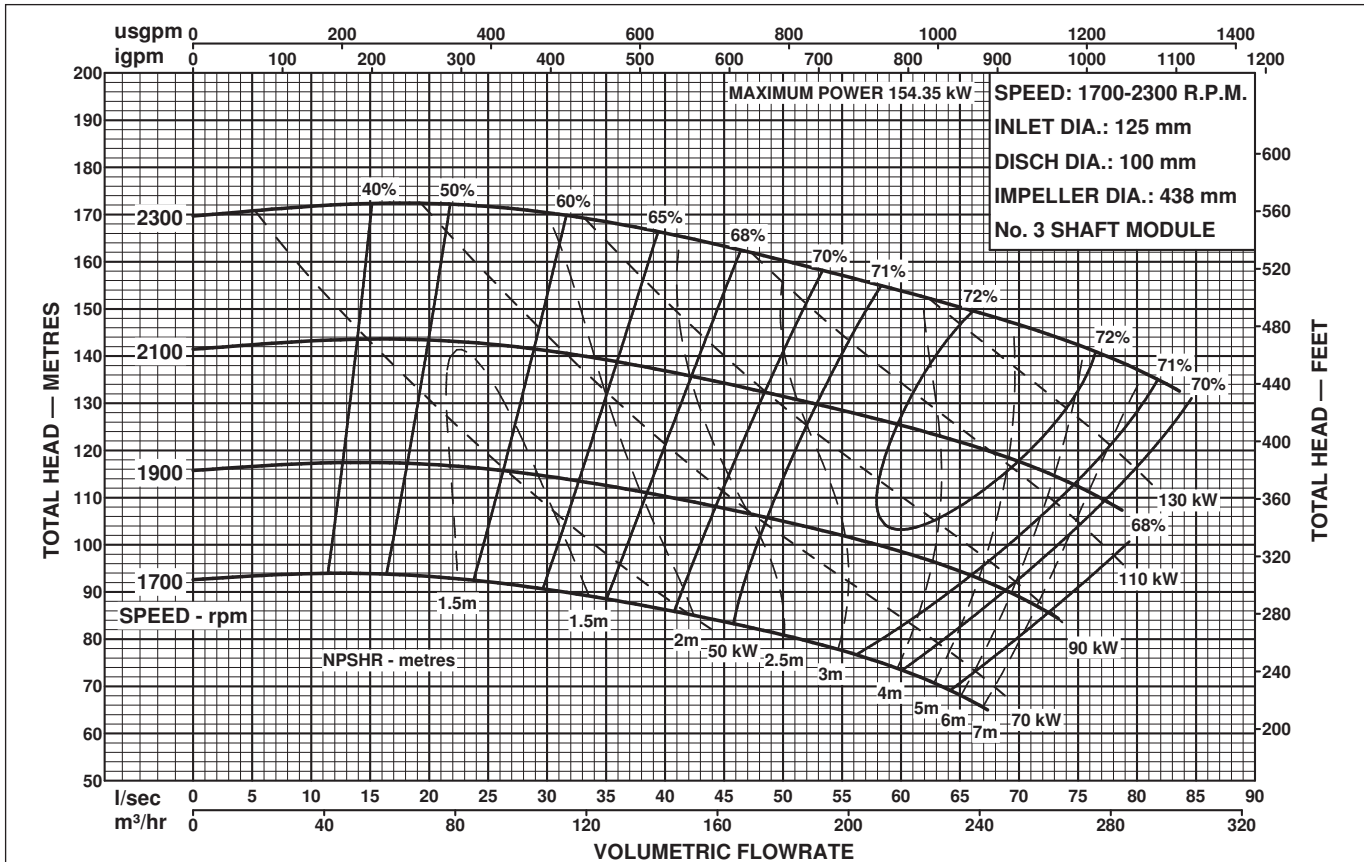
A division of **tyco** Flow Control Pacific Pty Ltd A.B.N. 83 000 922 690

125 x 100-400

ISO-PRO

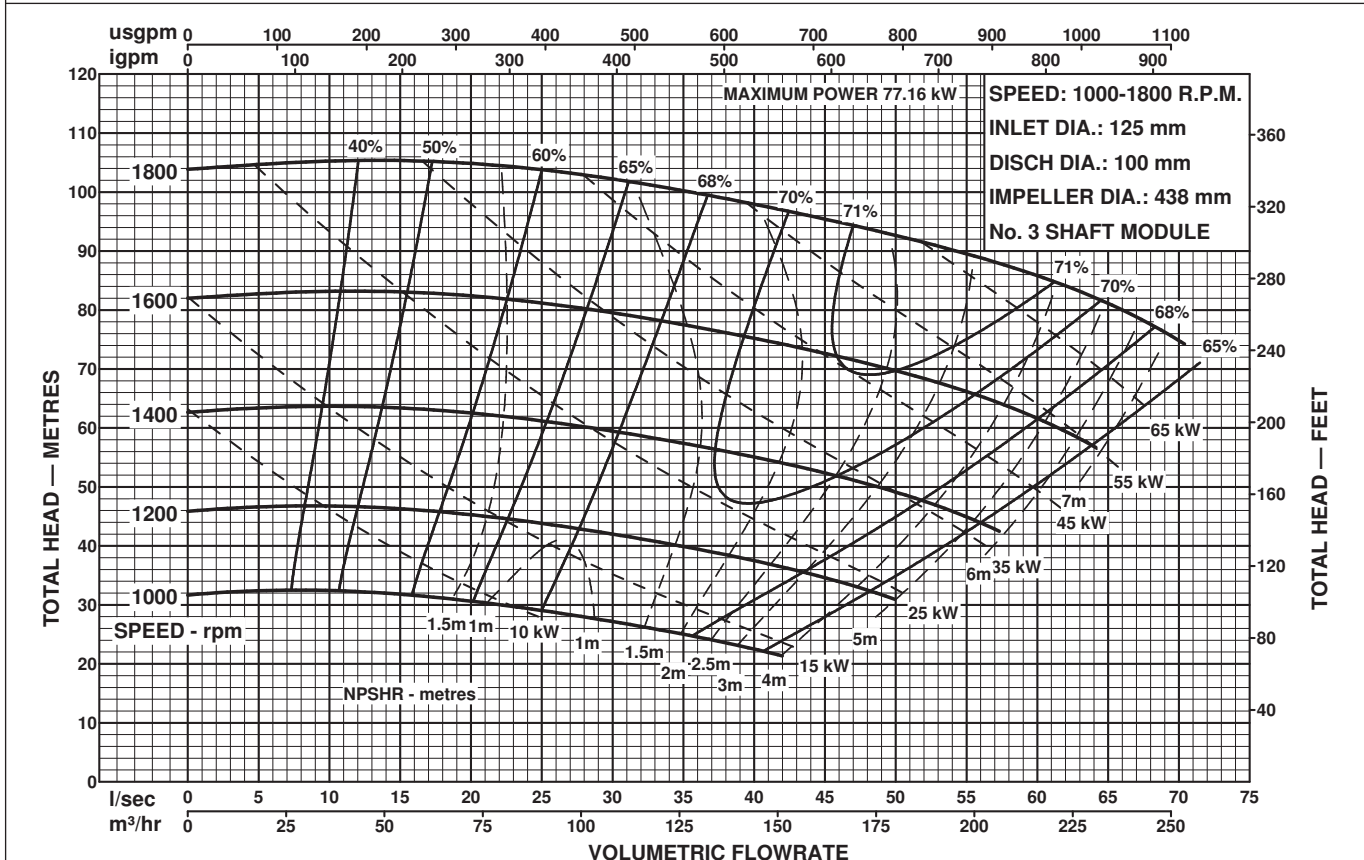


CENTRIFUGAL PUMP PERFORMANCE DATA



Performance to AS2417 Grade 2 for clean, cold water only.

May 2005



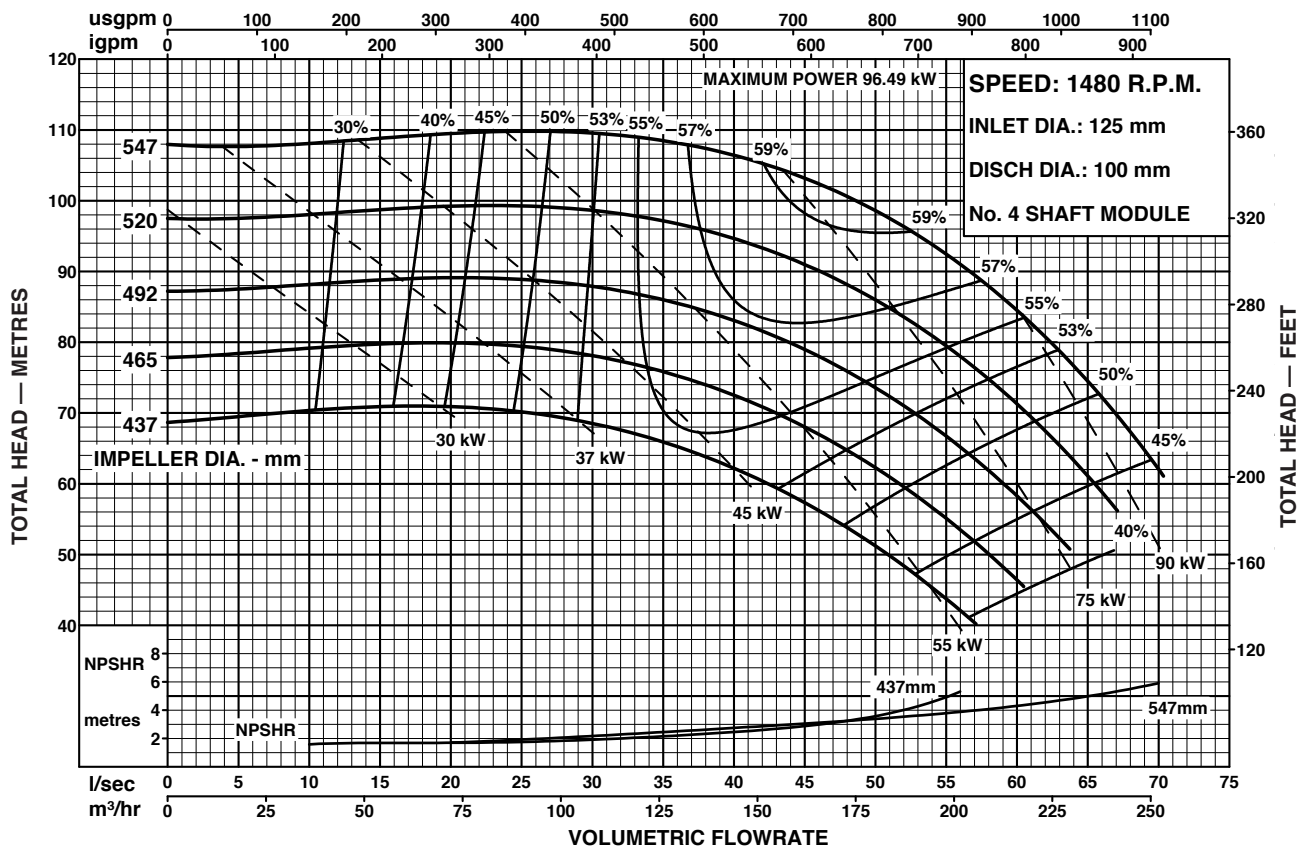
Performance to AS2417 Grade 2 for clean, cold water only.

May 2005



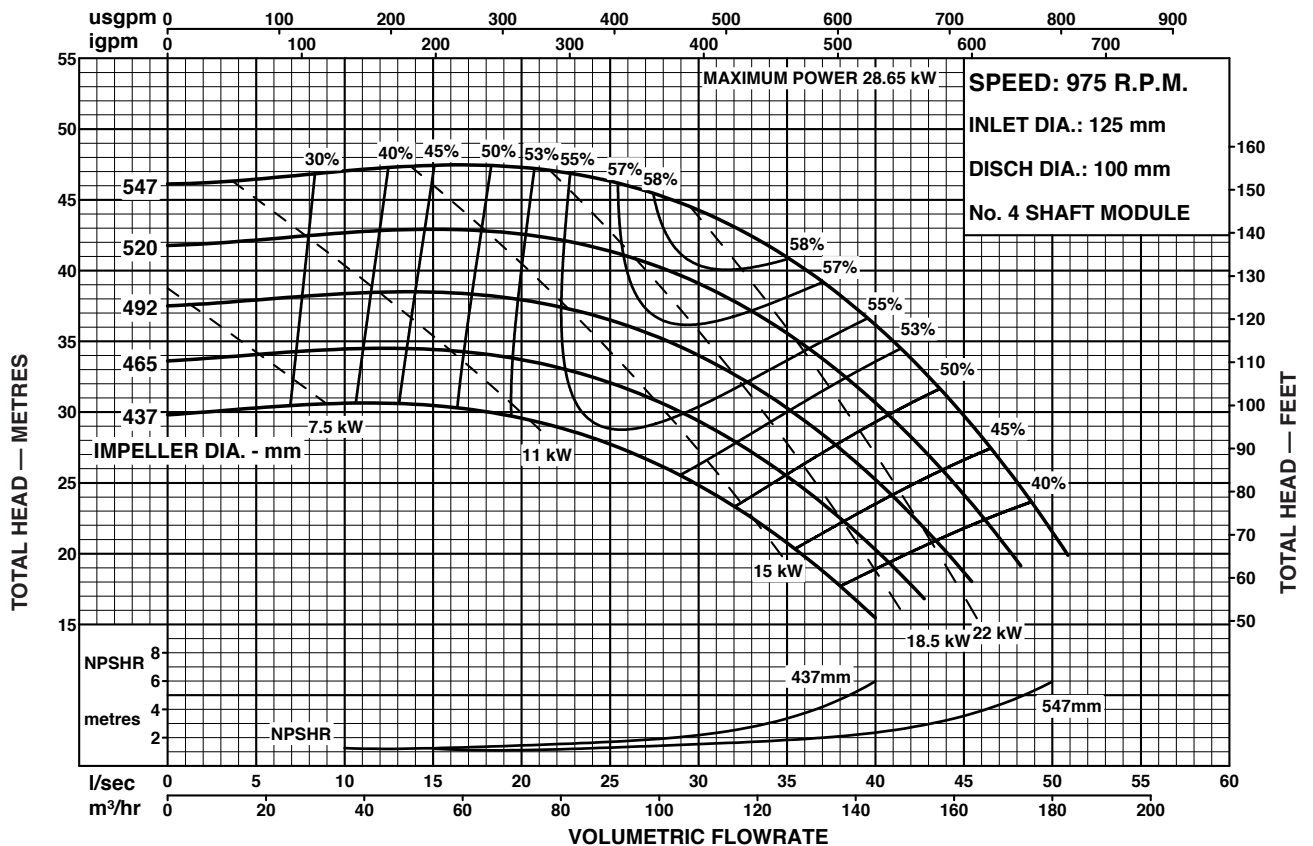
125 x 100-500

CENTRIFUGAL PUMP PERFORMANCE DATA



Performance to AS2417 Grade 2 for clean, cold water only.

May 2005



Performance to AS2417 Grade 2 for clean, cold water only.

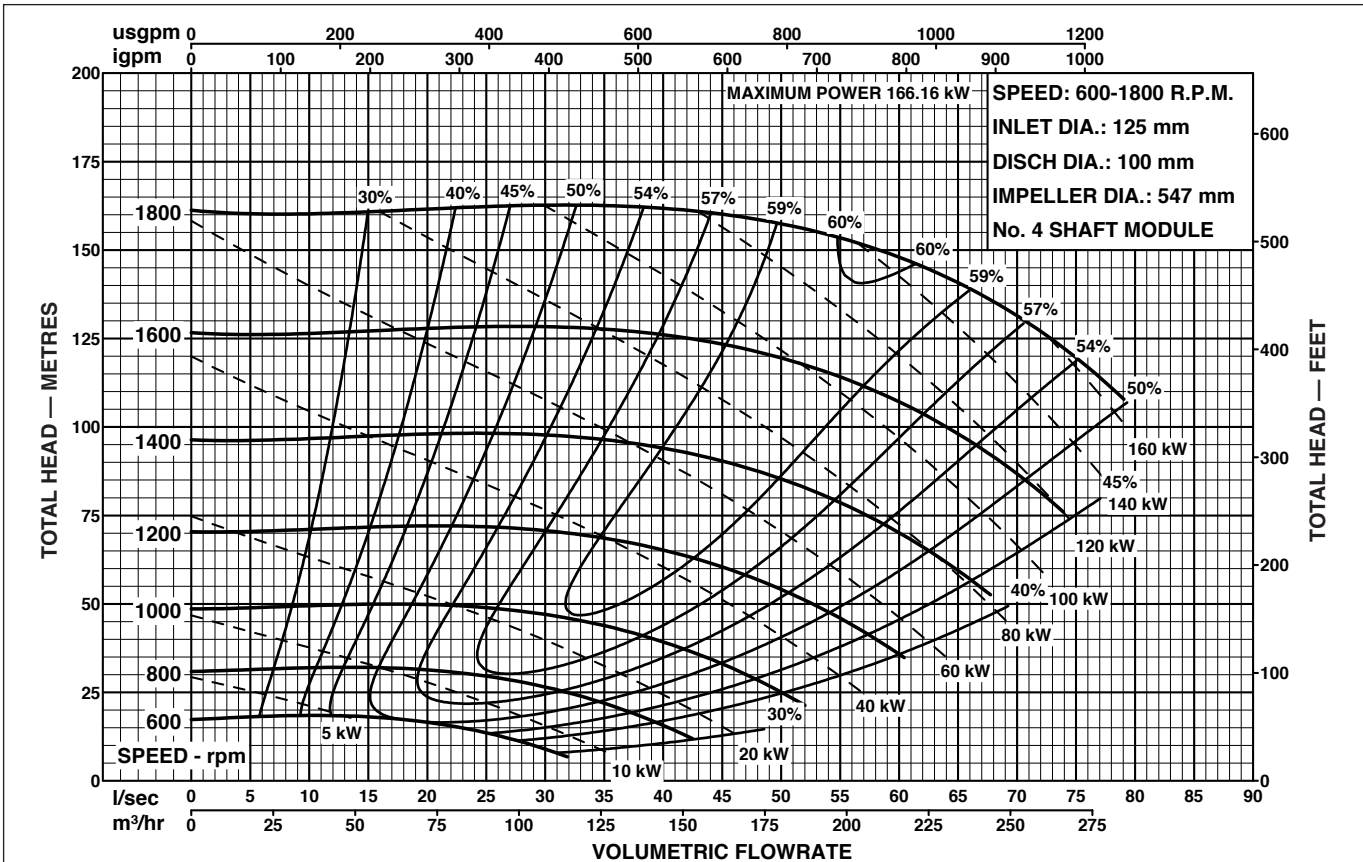
May 2005

125 x 100-500

ISO-PRO



CENTRIFUGAL PUMP PERFORMANCE DATA



Performance to AS2417 Grade 2 for clean, cold water only.

May 2005

Performance to AS2417 Grade 2 for clean, cold water only.

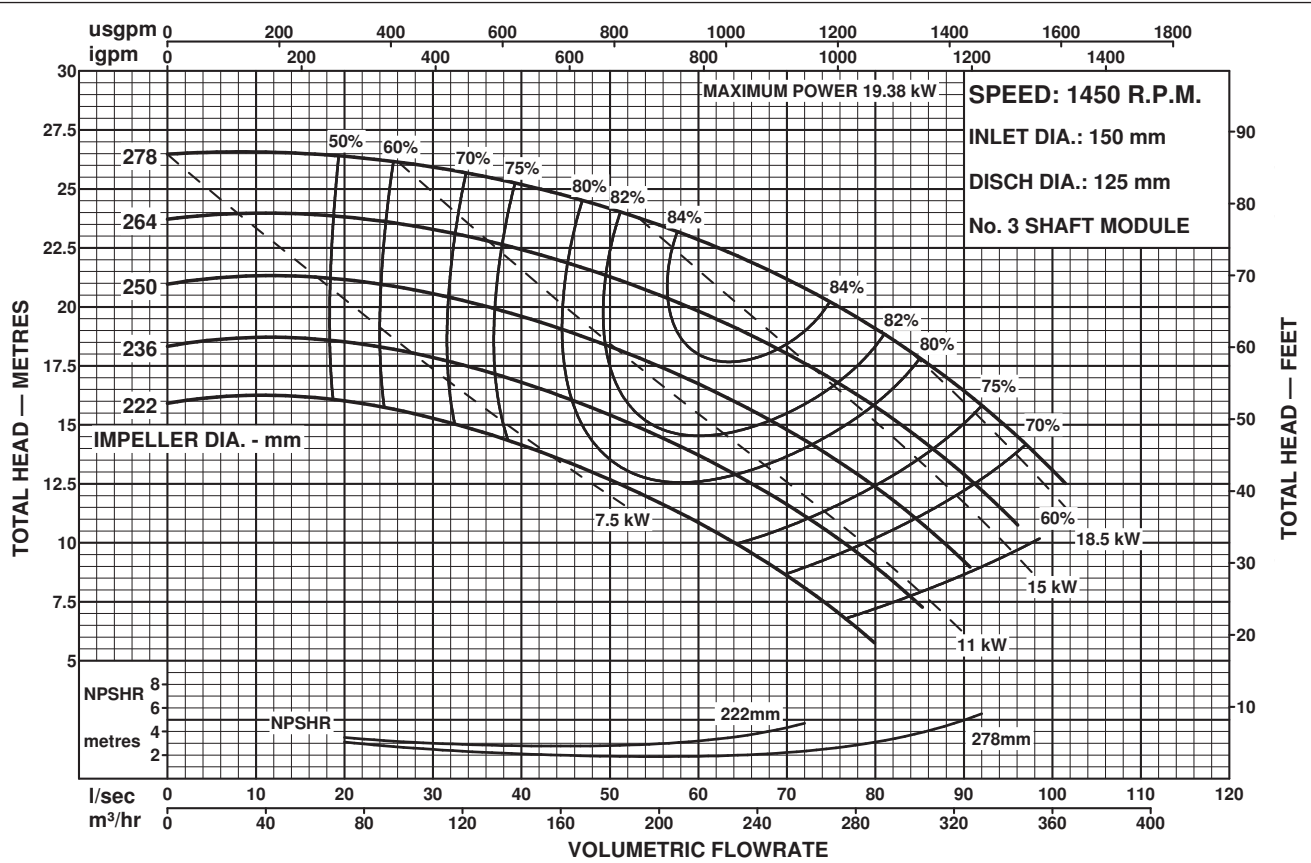
May 2005

A division of **tyco** Flow Control Pacific Pty Ltd A.B.N. 83 000 922 690



ISO-PRO 150 x 125-250

CENTRIFUGAL PUMP PERFORMANCE DATA



Performance to AS2417 Grade 2 for clean, cold water only.

May 2005

Performance to AS2417 Grade 2 for clean, cold water only.

May 2005

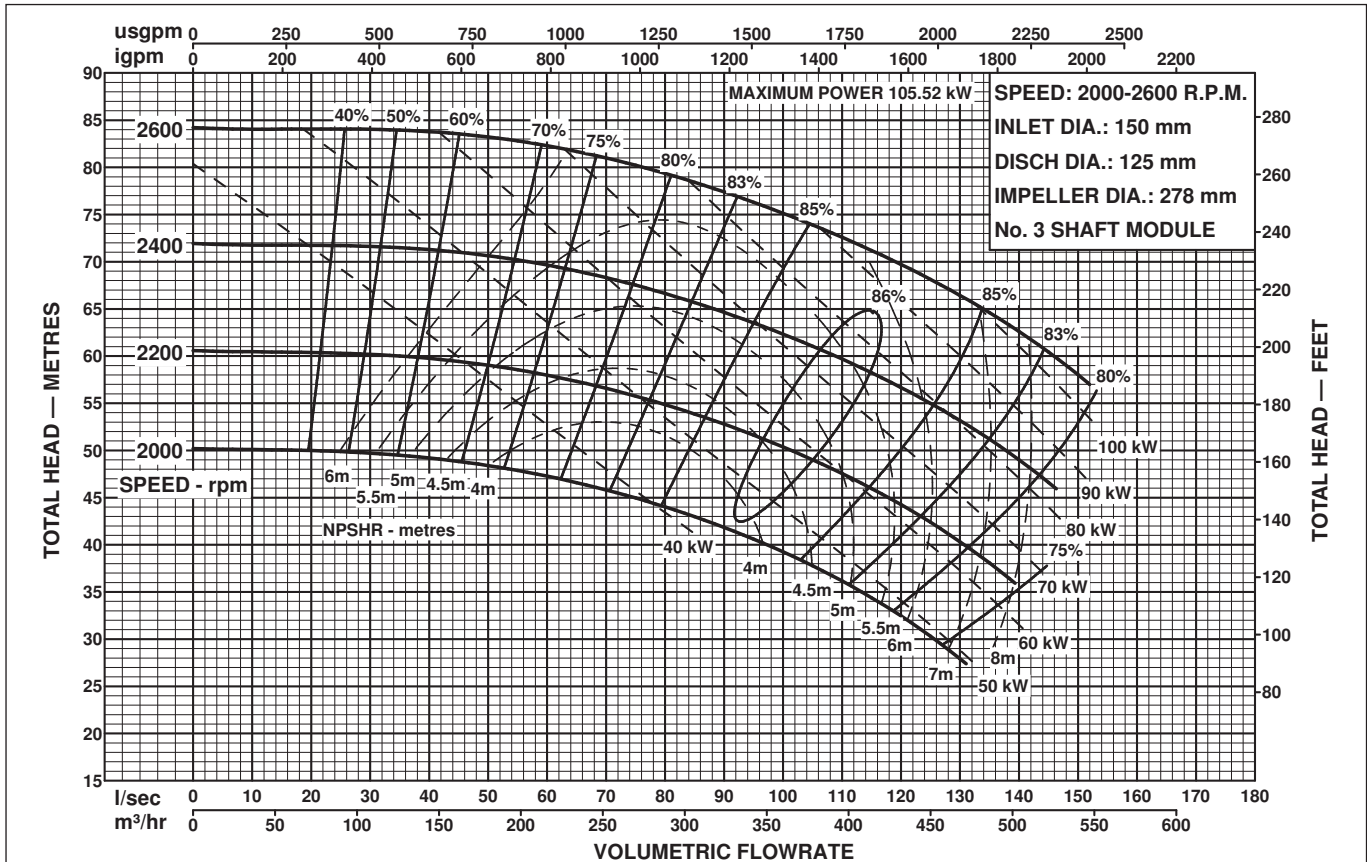
A division of **tyco** Flow Control Pacific Pty Ltd A.B.N. 83 000 922 690

150 x 125-250

ISO-PRO

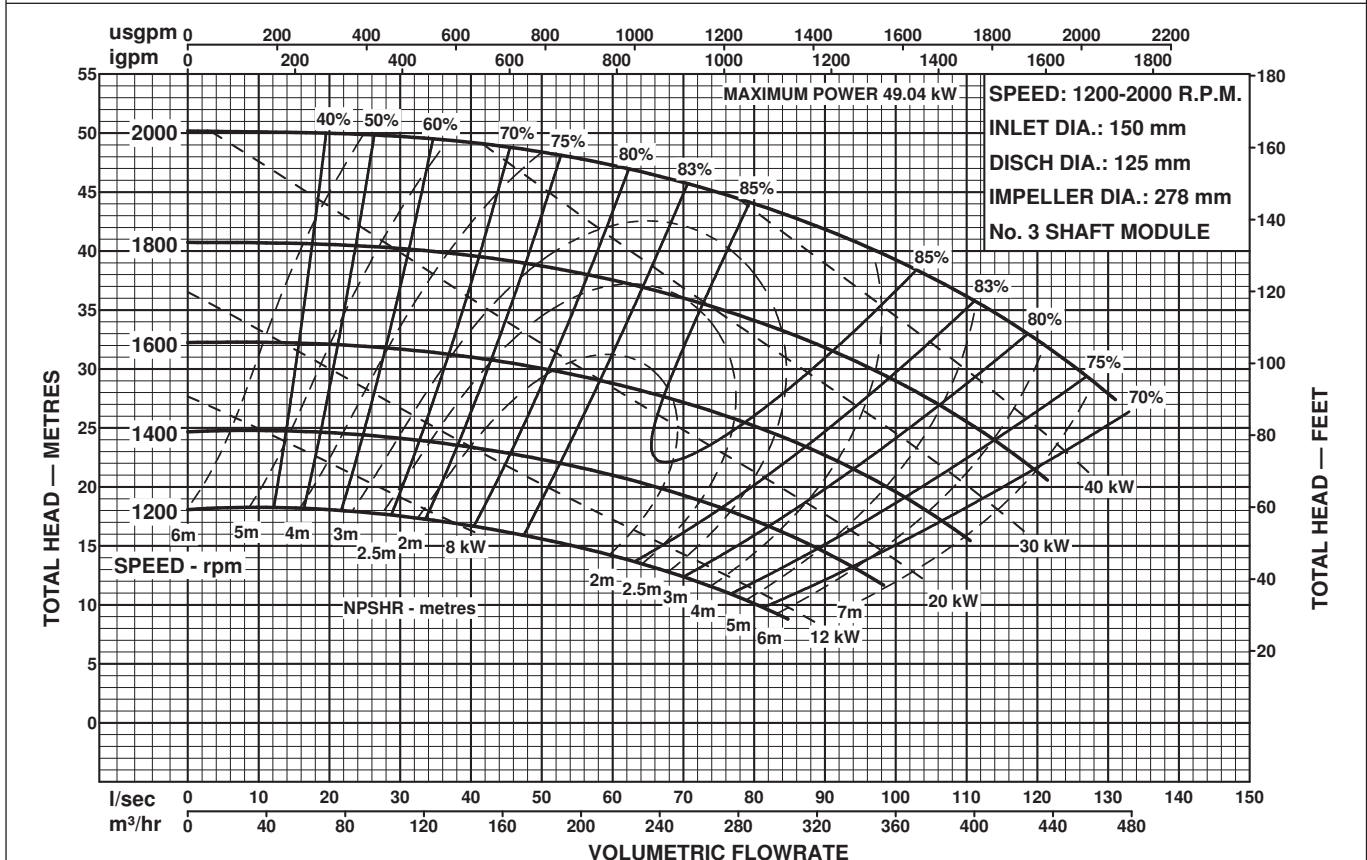


CENTRIFUGAL PUMP PERFORMANCE DATA



Performance to AS2417 Grade 2 for clean, cold water only.

May 2005



Performance to AS2417 Grade 2 for clean, cold water only.

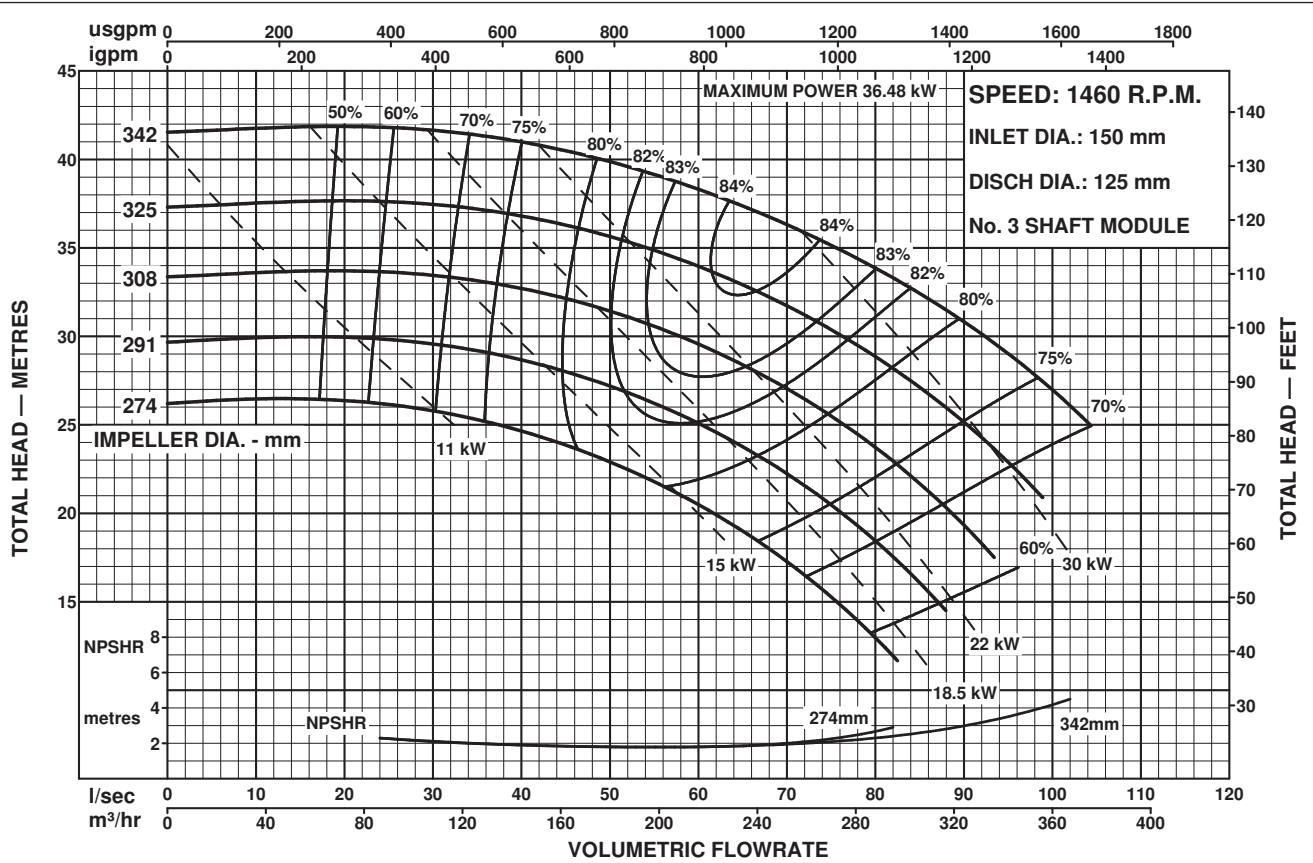
May 2005

A division of **tyco** Flow Control Pacific Pty Ltd A.B.N. 83 000 922 690



150 x 125-315

CENTRIFUGAL PUMP PERFORMANCE DATA



Performance to AS2417 Grade 2 for clean, cold water only.

May 2005

Performance to AS2417 Grade 2 for clean, cold water only.

May 2005

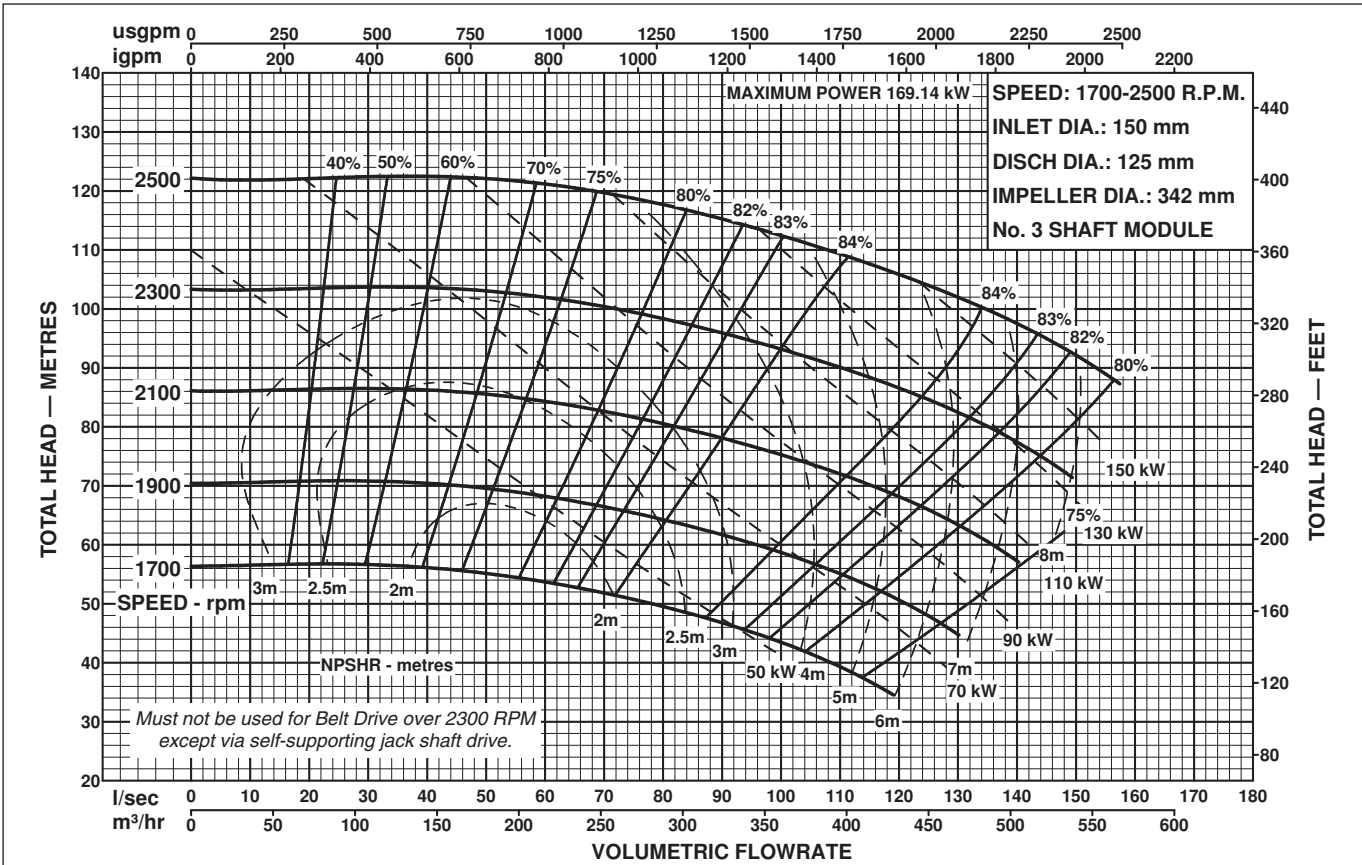
A division of **tyco** Flow Control Pacific Pty Ltd A.B.N. 83 000 922 690

150 x 125-315

ISO-PRO

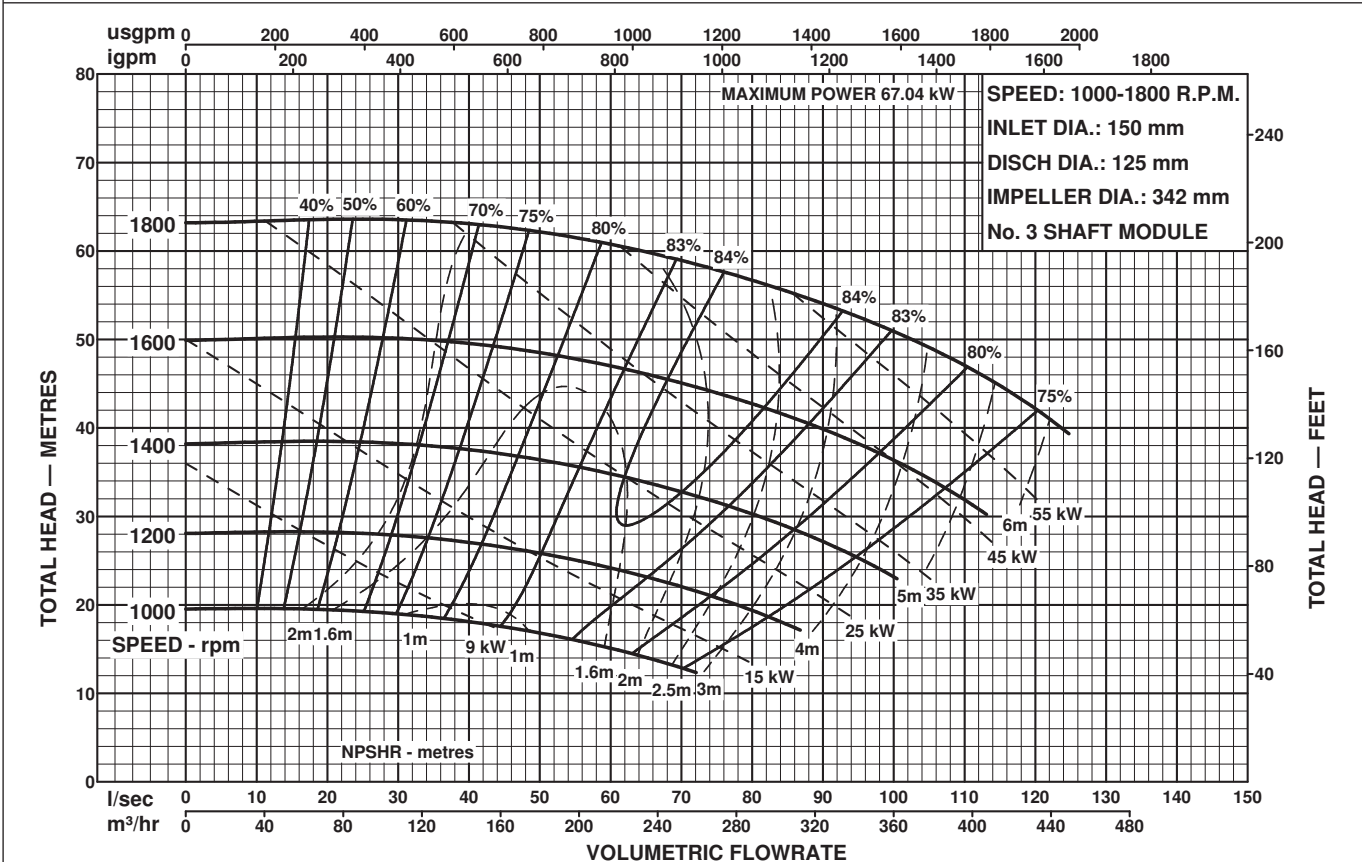


CENTRIFUGAL PUMP PERFORMANCE DATA



Performance to AS2417 Grade 2 for clean, cold water only.

May 2005



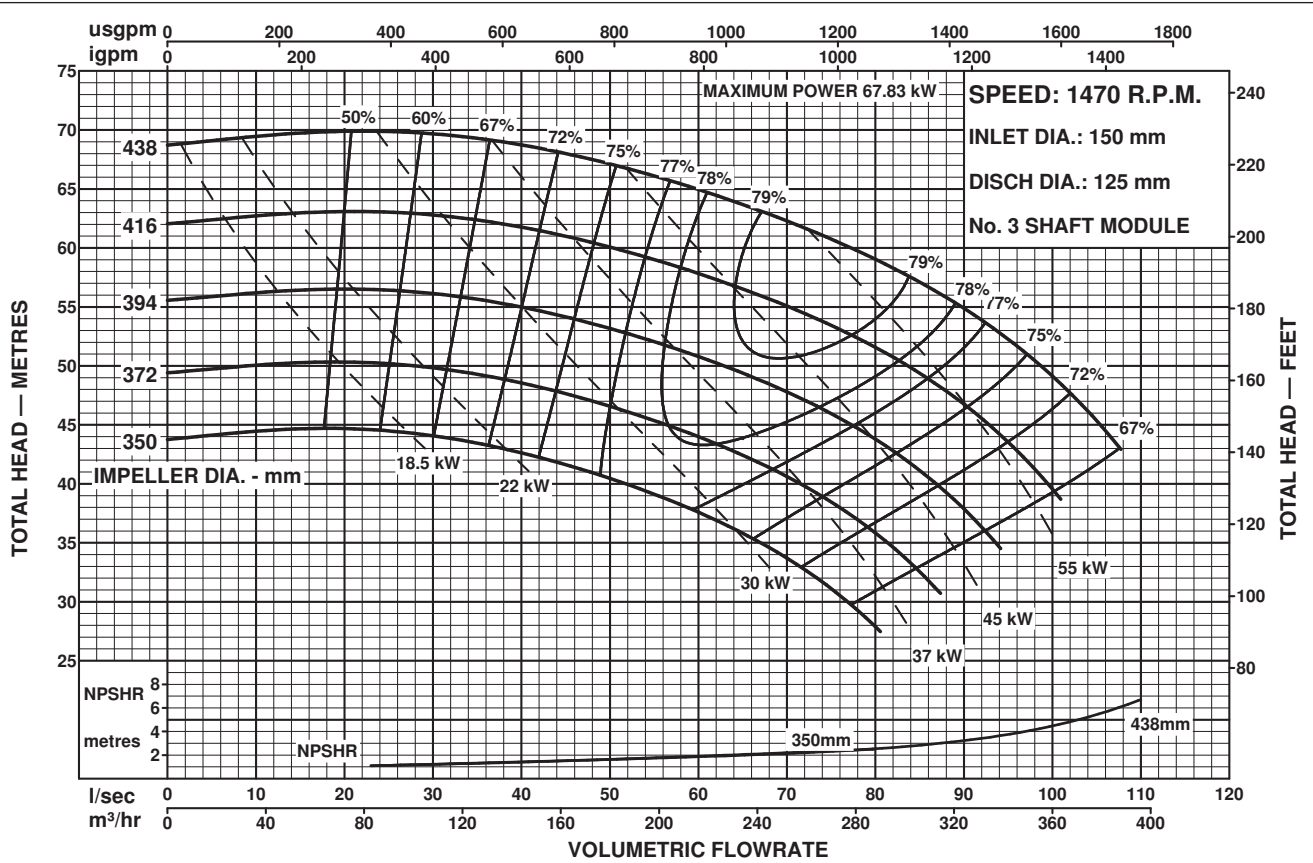
Performance to AS2417 Grade 2 for clean, cold water only.

May 2005



150 x 125-400

CENTRIFUGAL PUMP PERFORMANCE DATA



Performance to AS2417 Grade 2 for clean, cold water only.

May 2005

Performance to AS2417 Grade 2 for clean, cold water only.

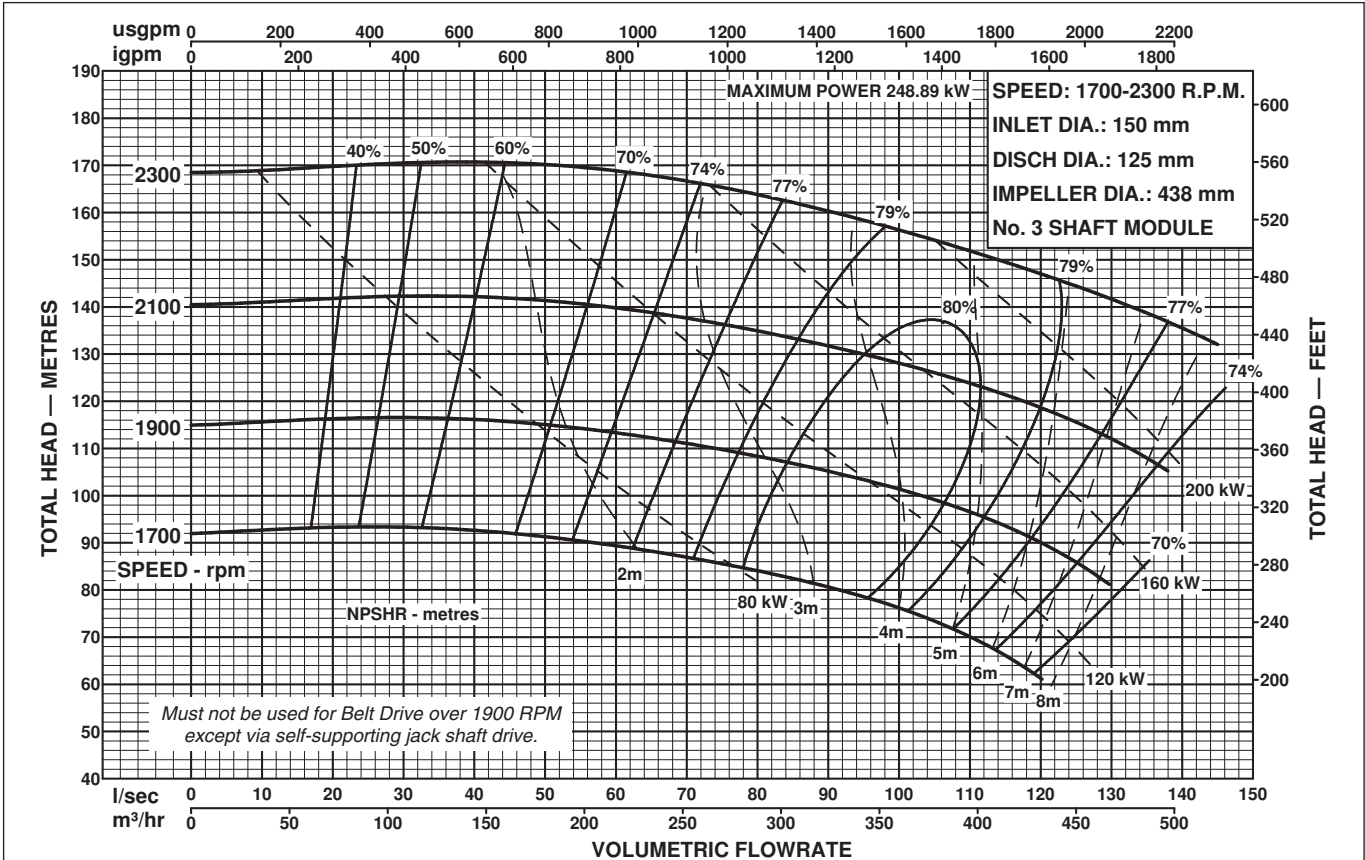
May 2005

150 x 125-400

ISO-PRO

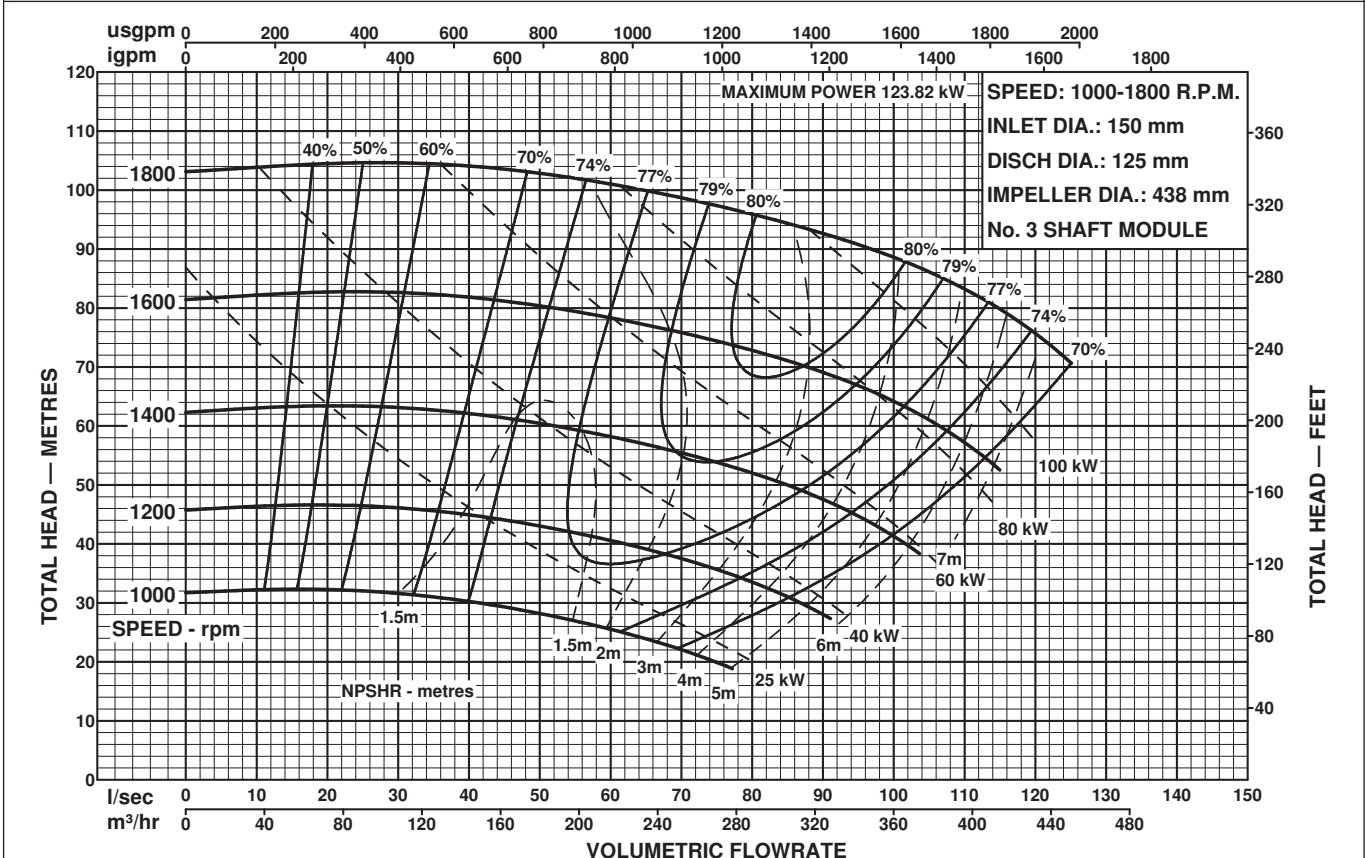


CENTRIFUGAL PUMP PERFORMANCE DATA



Performance to AS2417 Grade 2 for clean, cold water only.

May 2005



Performance to AS2417 Grade 2 for clean, cold water only.

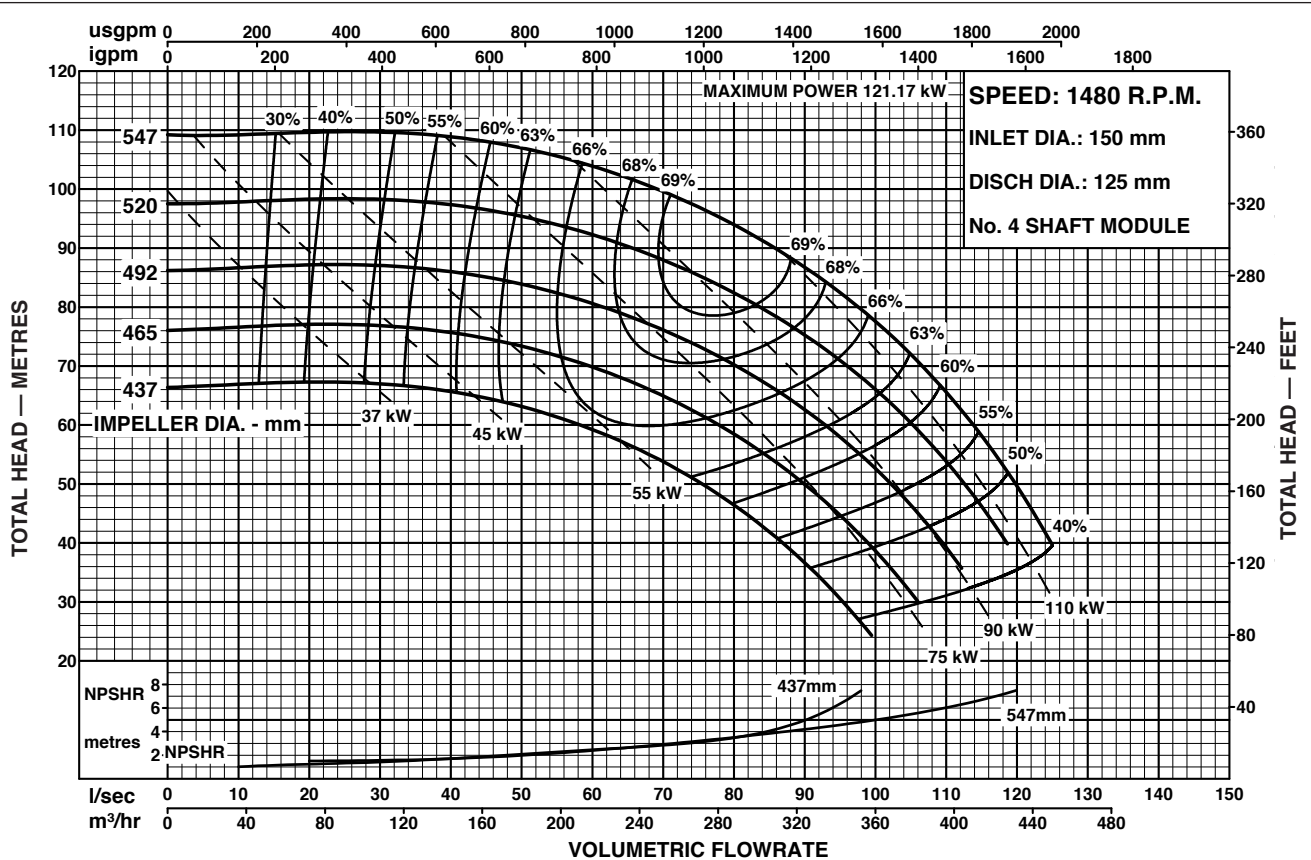
May 2005

A division of **tyco** Flow Control Pacific Pty Ltd A.B.N. 83 000 922 690



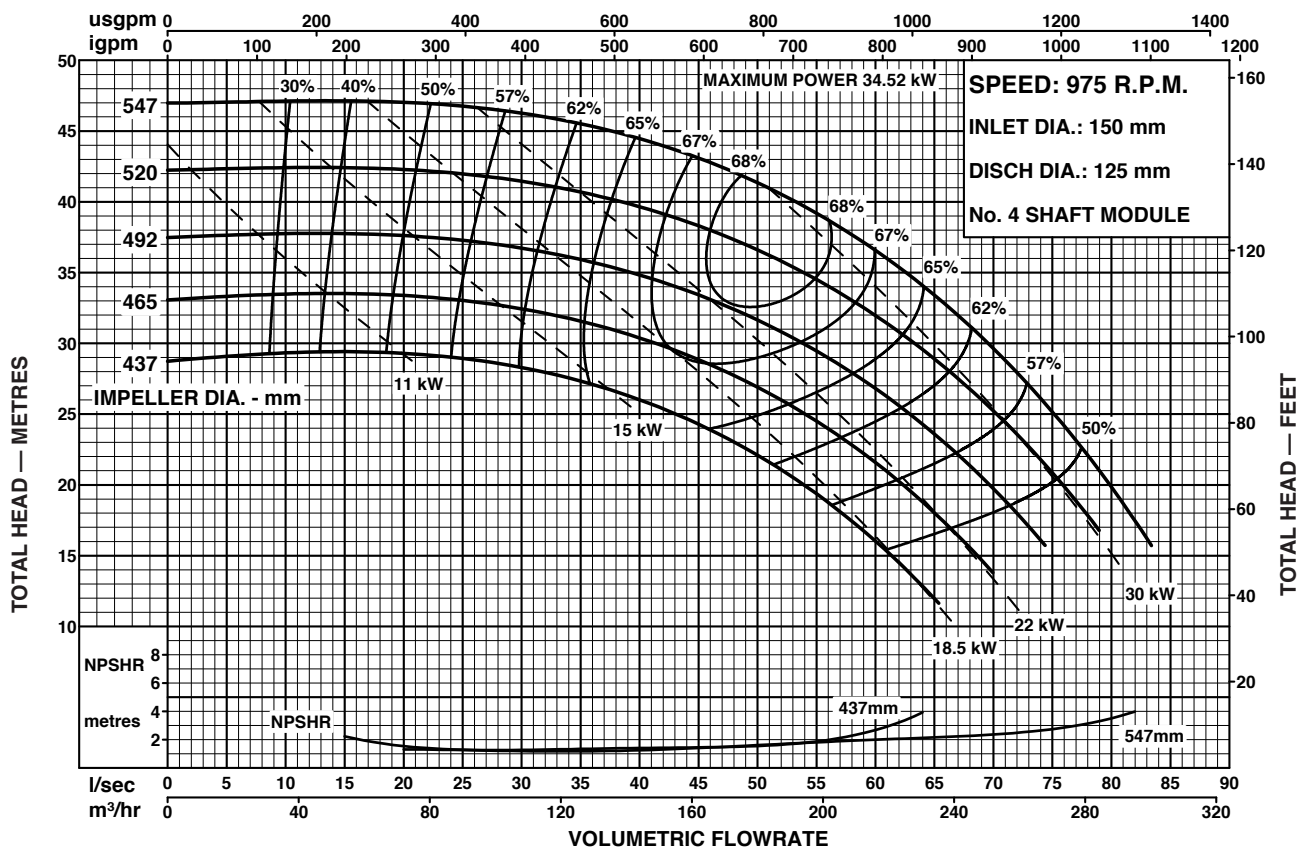
150 x 125-500

CENTRIFUGAL PUMP PERFORMANCE DATA



Performance to AS2417 Grade 2 for clean, cold water only.

May 2005



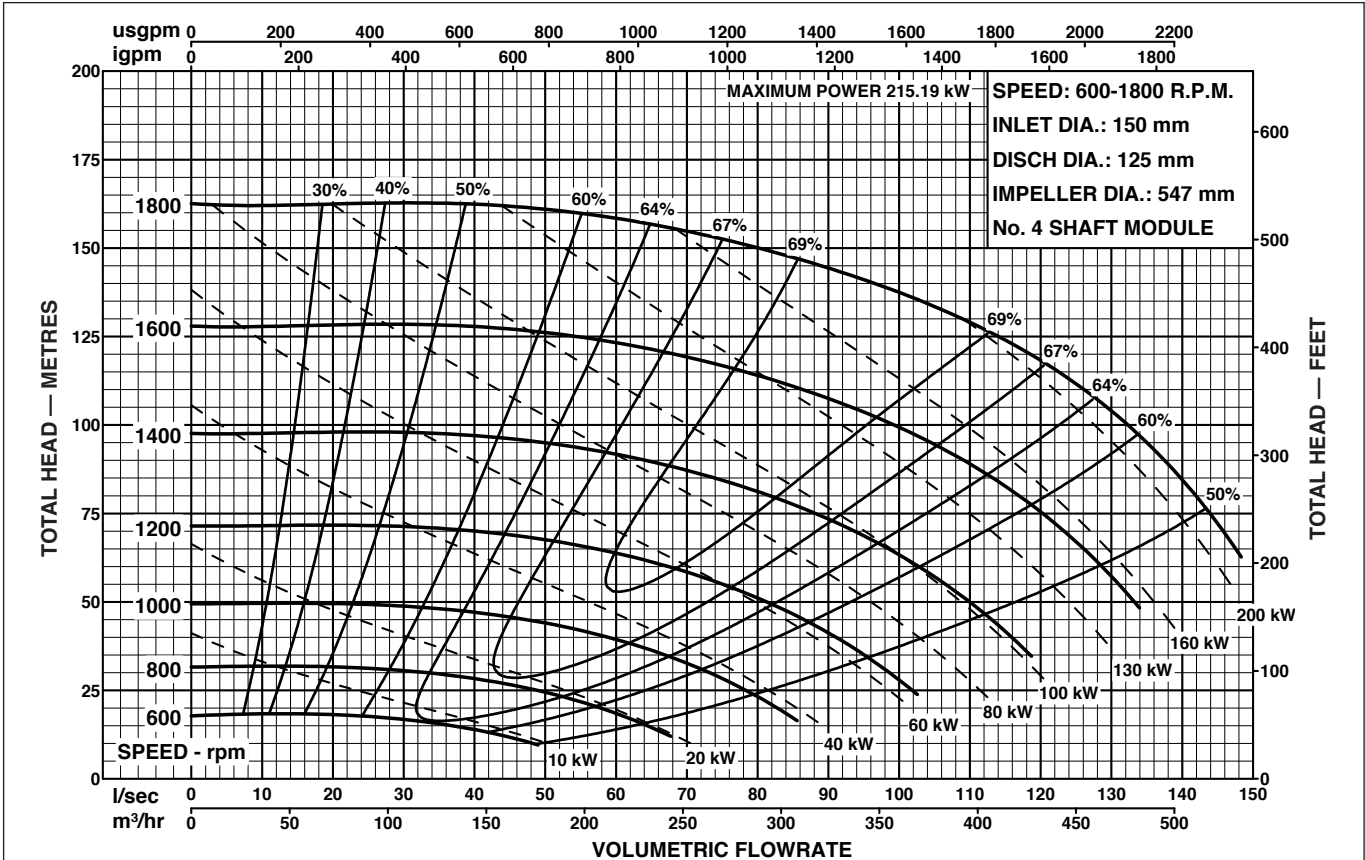
Performance to AS2417 Grade 2 for clean, cold water only.

May 2005

150 x 125-500



CENTRIFUGAL PUMP PERFORMANCE DATA



Performance to AS2417 Grade 2 for clean, cold water only.

May 2005

Performance to AS2417 Grade 2 for clean, cold water only.

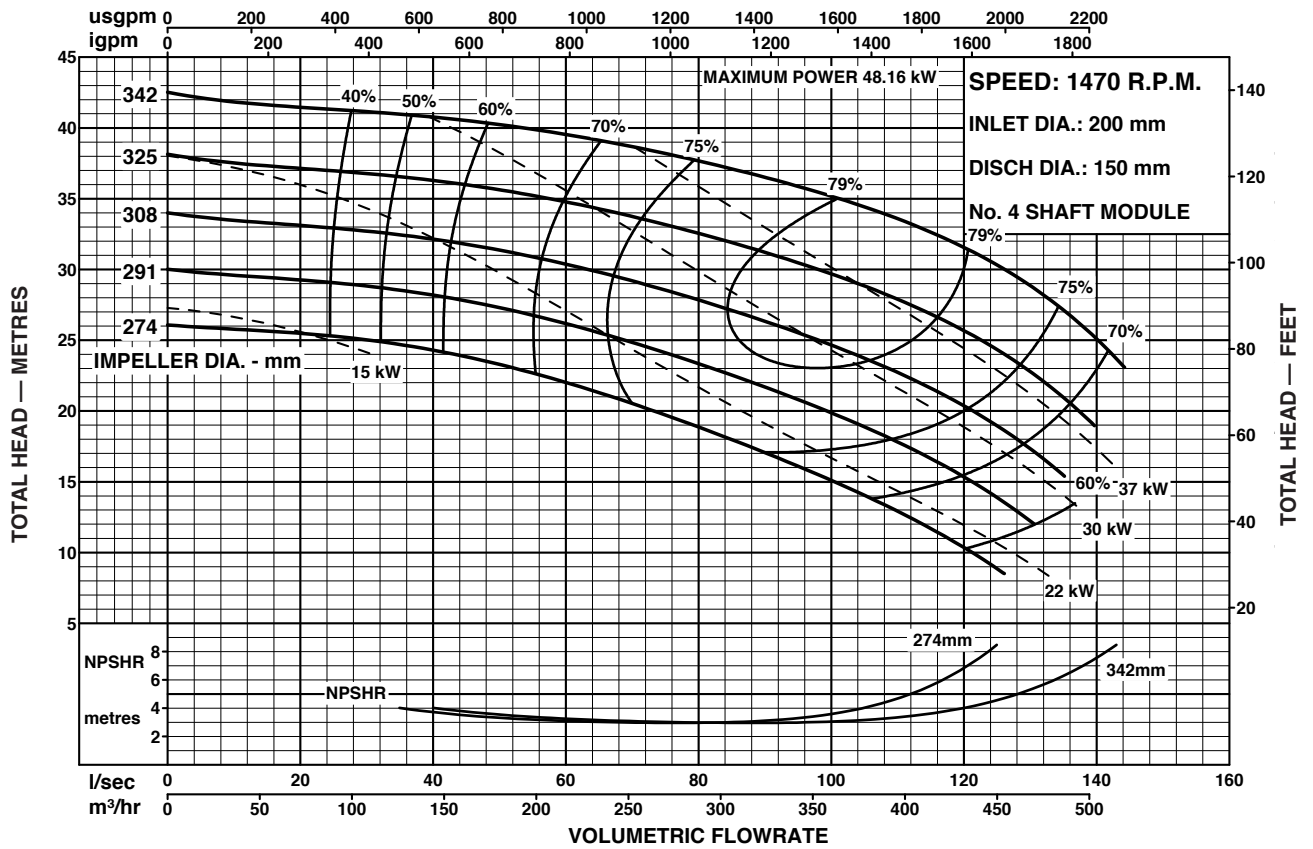
May 2005

A division of **tyco** Flow Control Pacific Pty Ltd A.B.N. 83 000 922 690



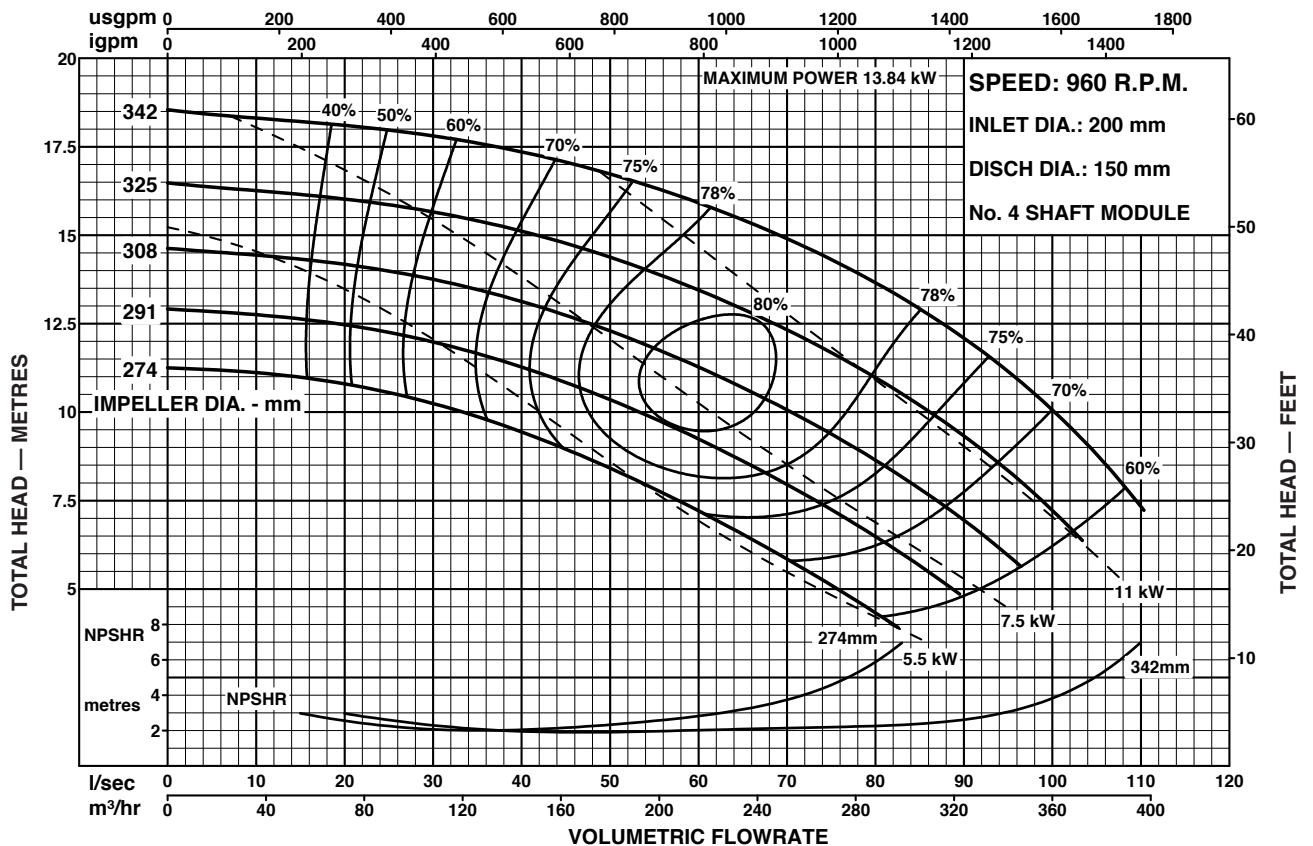
ISO-PRO 200 x 150-315

CENTRIFUGAL PUMP PERFORMANCE DATA



Performance to AS2417 Grade 2 for clean, cold water only.

May 2005



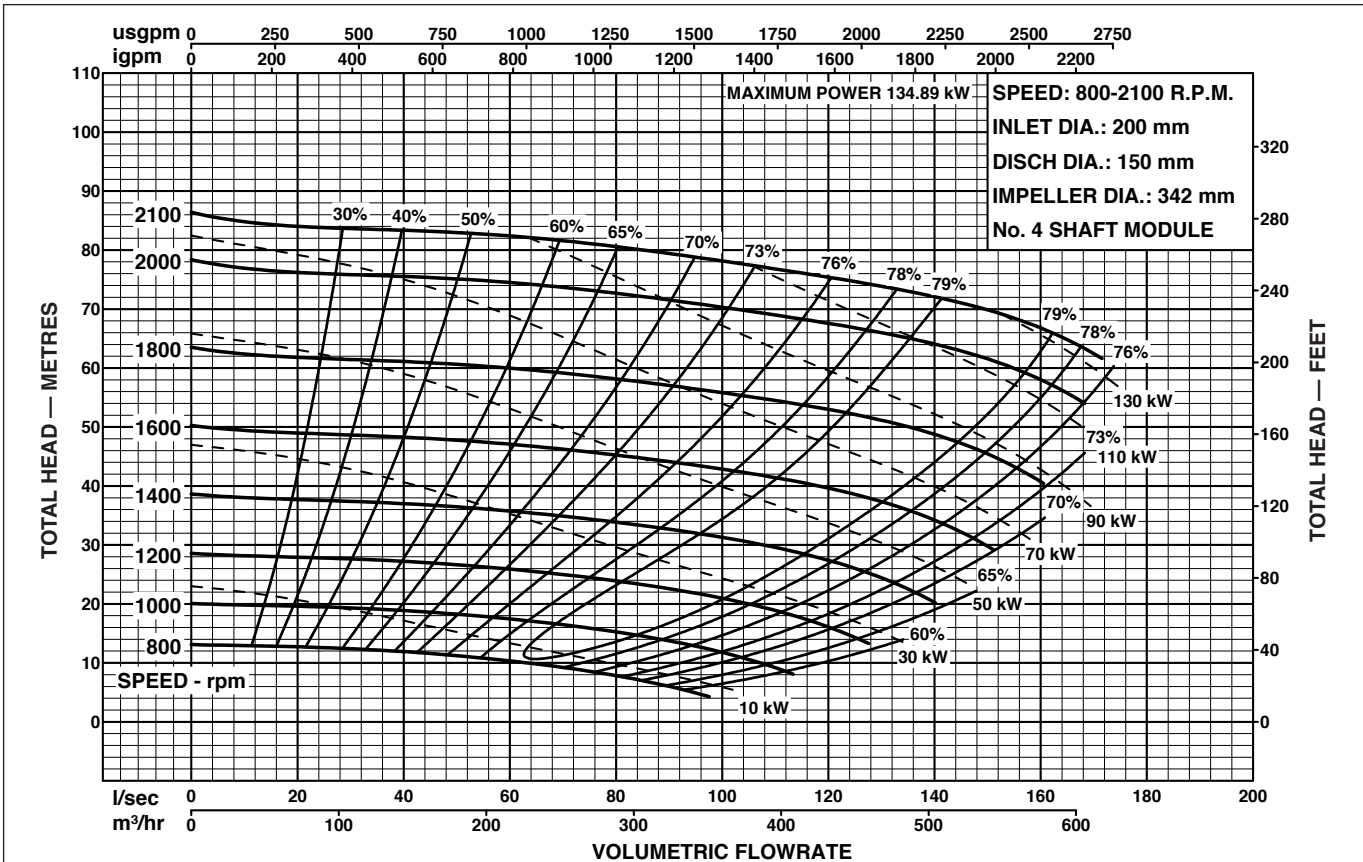
Performance to AS2417 Grade 2 for clean, cold water only.

May 2005

200 x 150-315



CENTRIFUGAL PUMP PERFORMANCE DATA



Performance to AS2417 Grade 2 for clean, cold water only.

May 2005

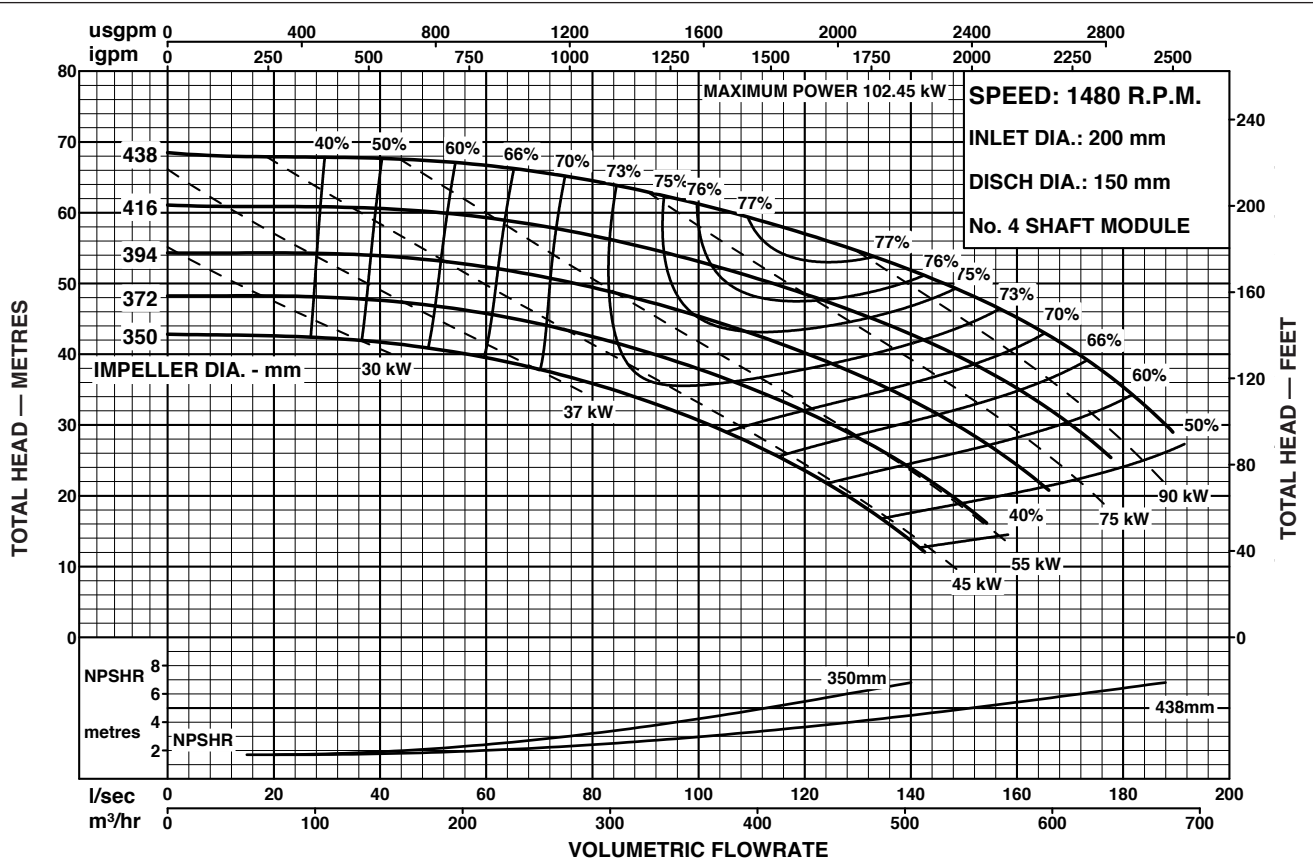
Performance to AS2417 Grade 2 for clean, cold water only.

May 2005



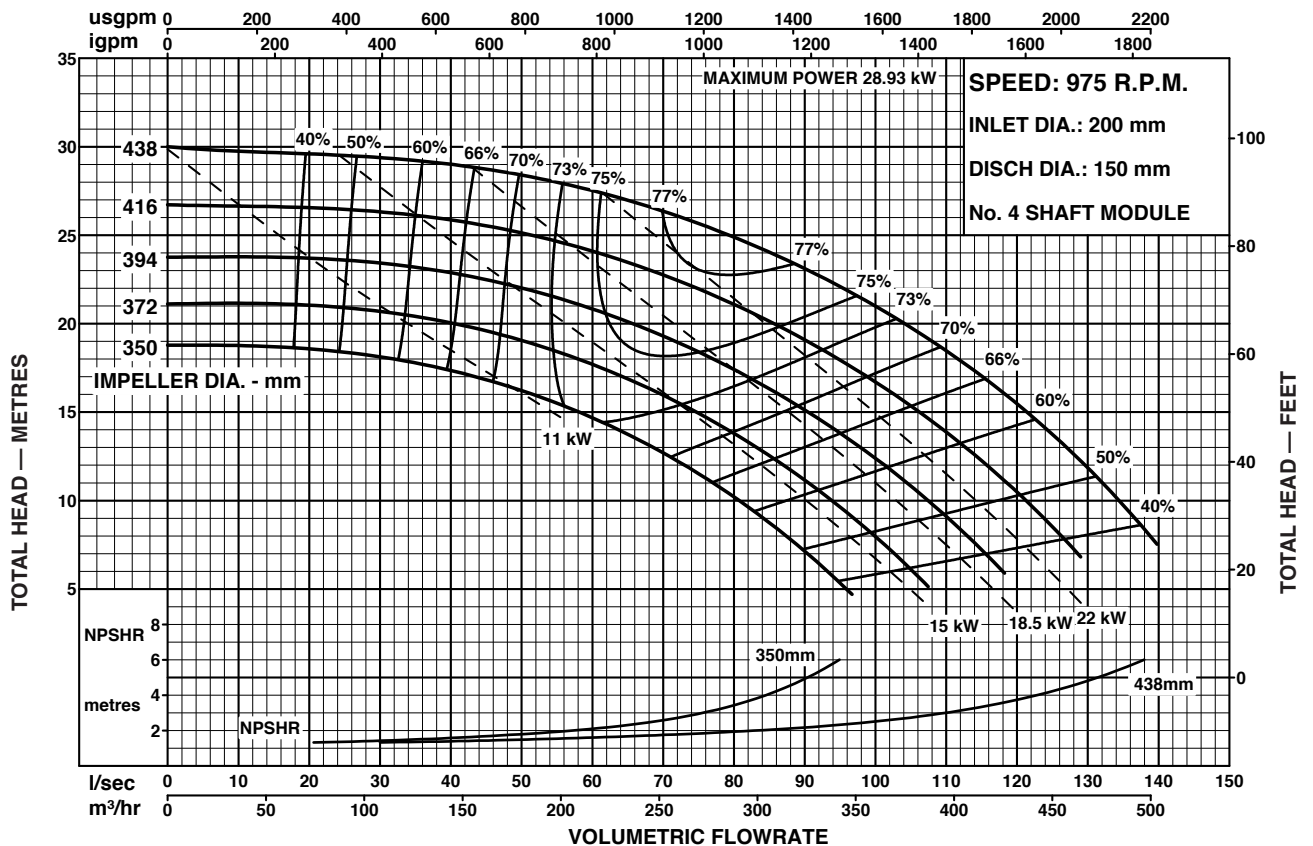
ISO-PRO 200 x 150-400

CENTRIFUGAL PUMP PERFORMANCE DATA



Performance to AS2417 Grade 2 for clean, cold water only.

May 2005



Performance to AS2417 Grade 2 for clean, cold water only.

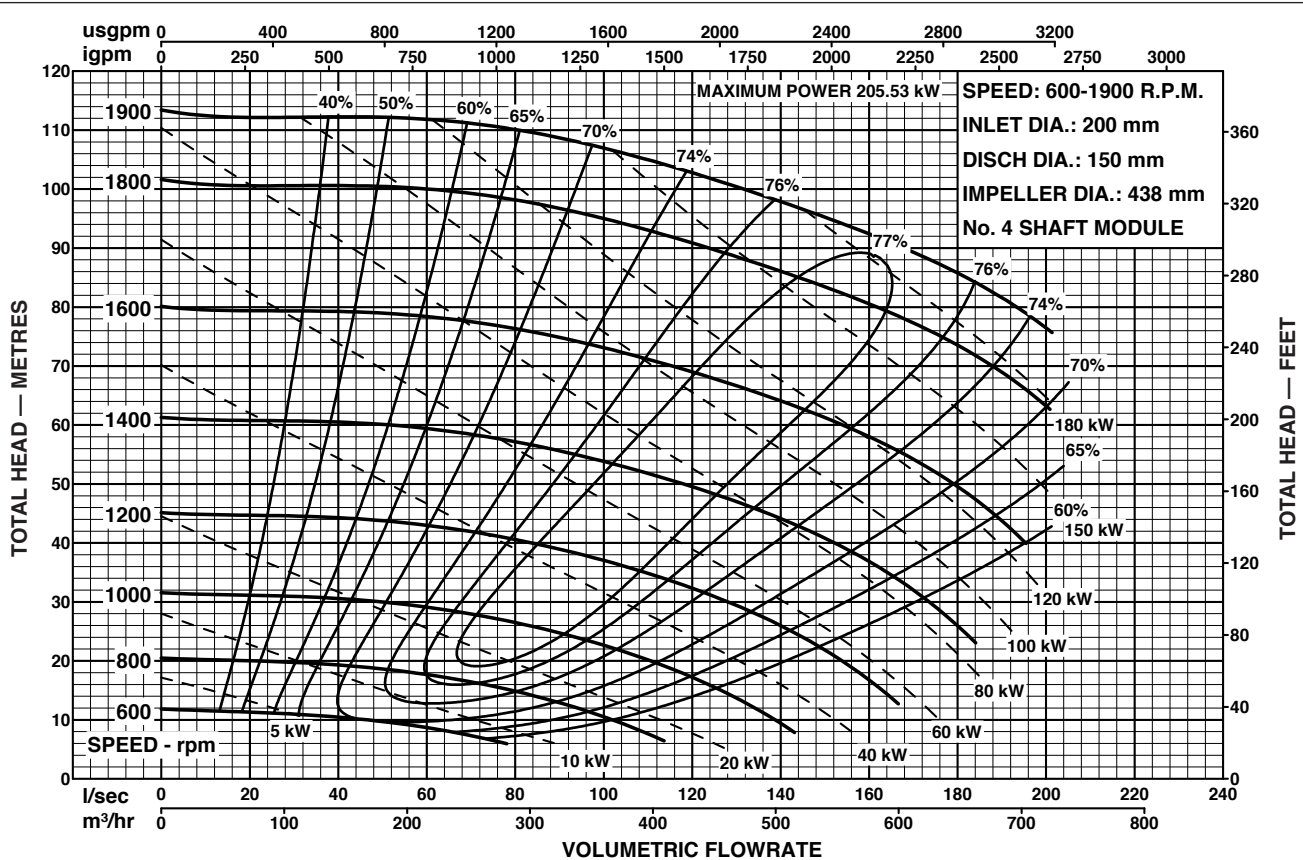
May 2005

200 x 150-400

ISO-PRO



CENTRIFUGAL PUMP PERFORMANCE DATA



Performance to AS2417 Grade 2 for clean, cold water only.

May 2005

Performance to AS2417 Grade 2 for clean, cold water only.

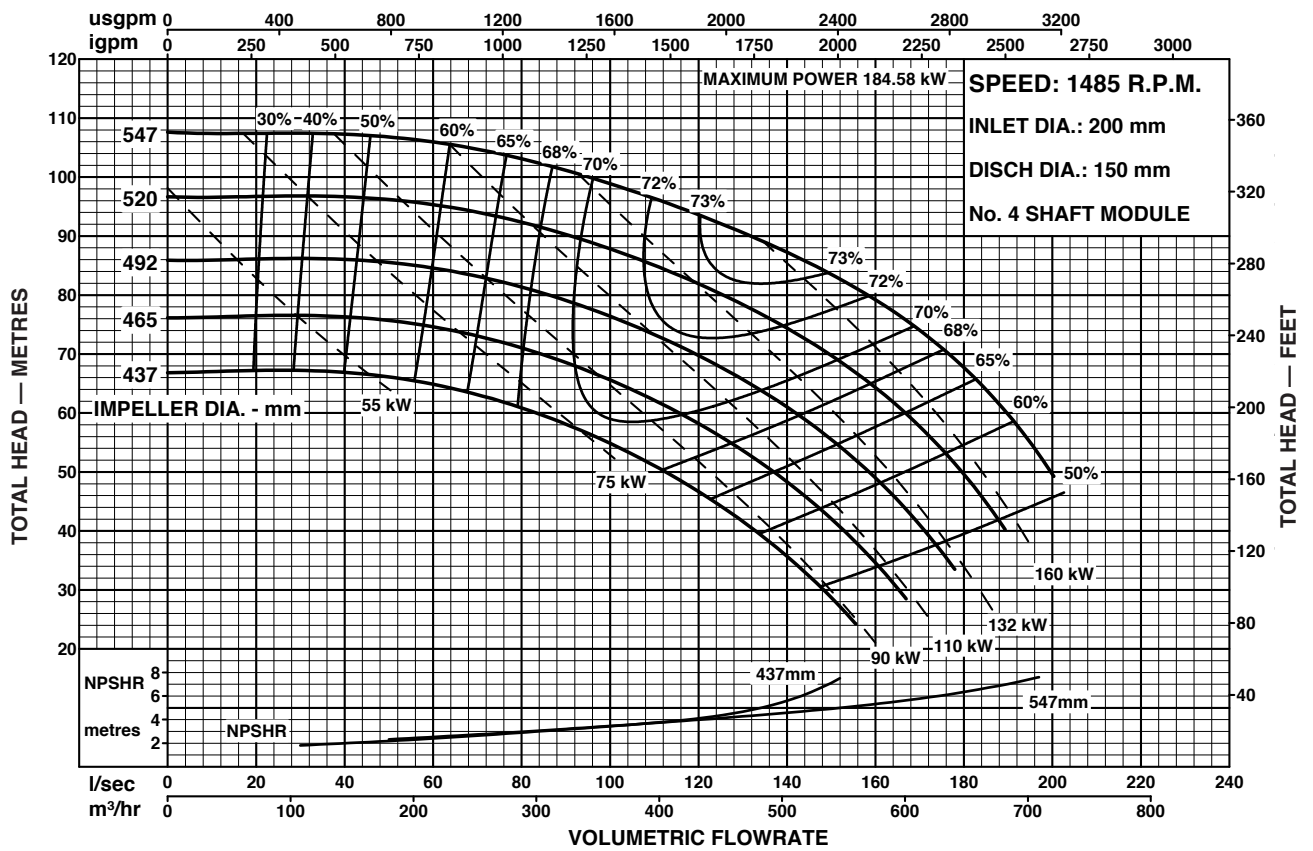
May 2005

A division of **tyco** Flow Control Pacific Pty Ltd A.B.N. 83 000 922 690



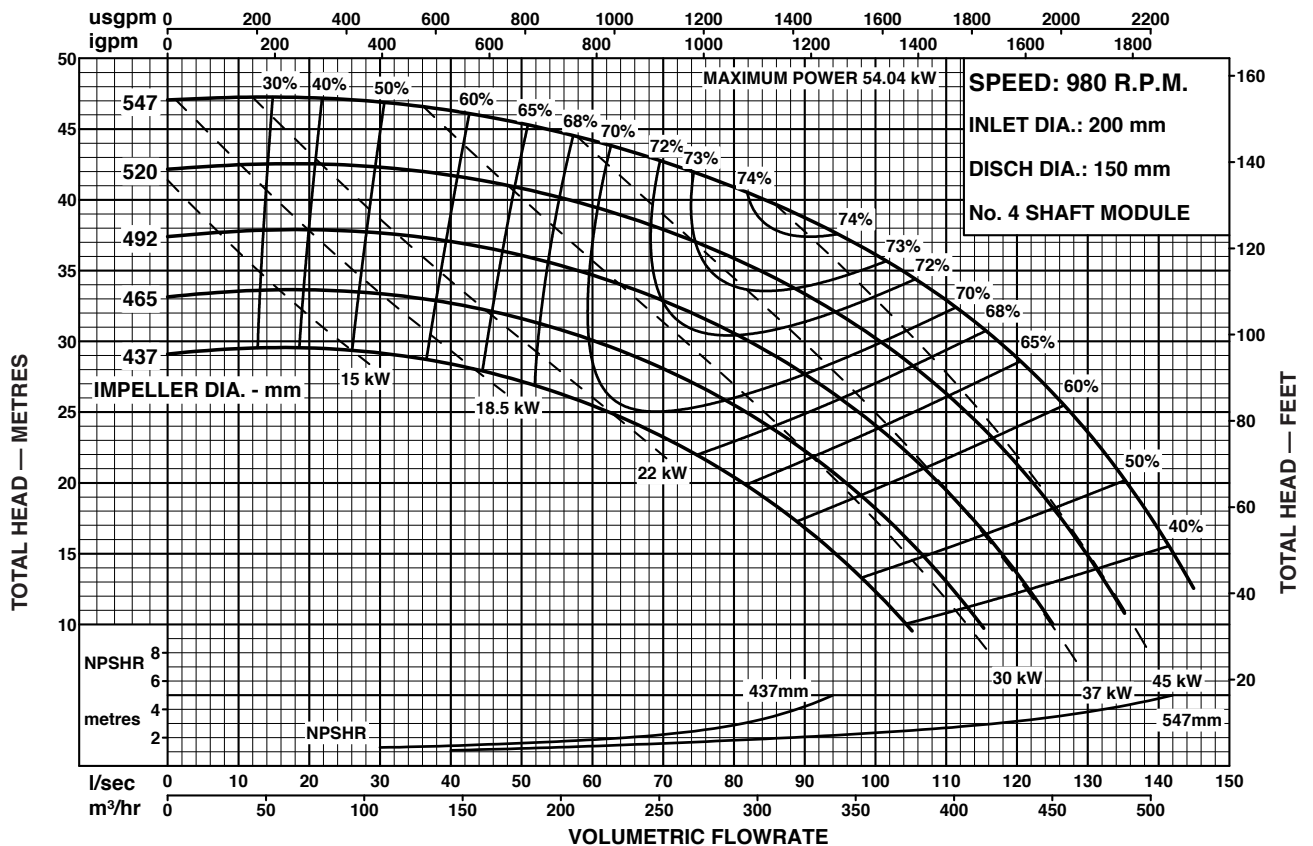
ISO-PRO 200 x 150-500

CENTRIFUGAL PUMP PERFORMANCE DATA



Performance to AS2417 Grade 2 for clean, cold water only.

May 2005



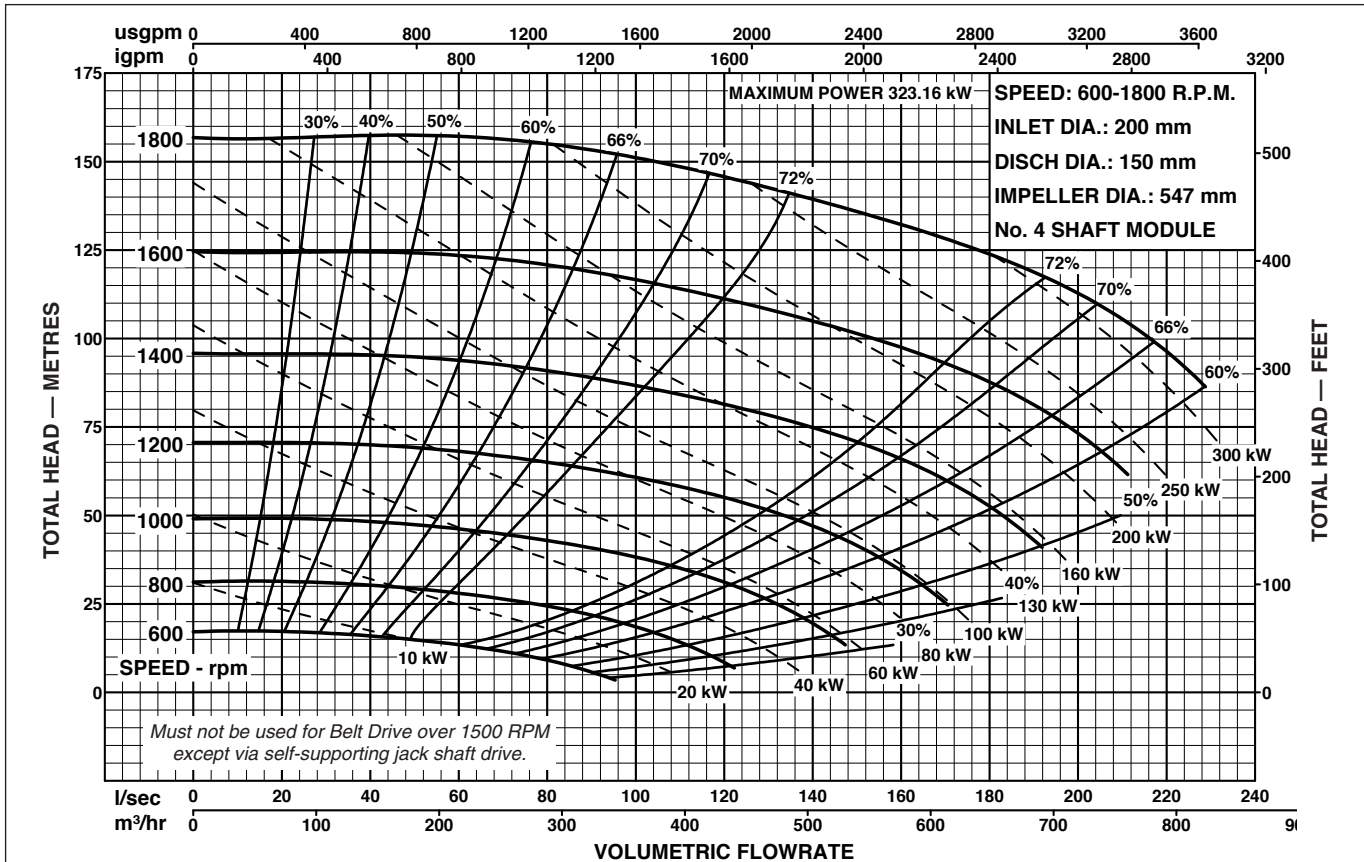
Performance to AS2417 Grade 2 for clean, cold water only.

May 2005

200 x 150-500



CENTRIFUGAL PUMP PERFORMANCE DATA



Performance to AS2417 Grade 2 for clean, cold water only.

May 2005

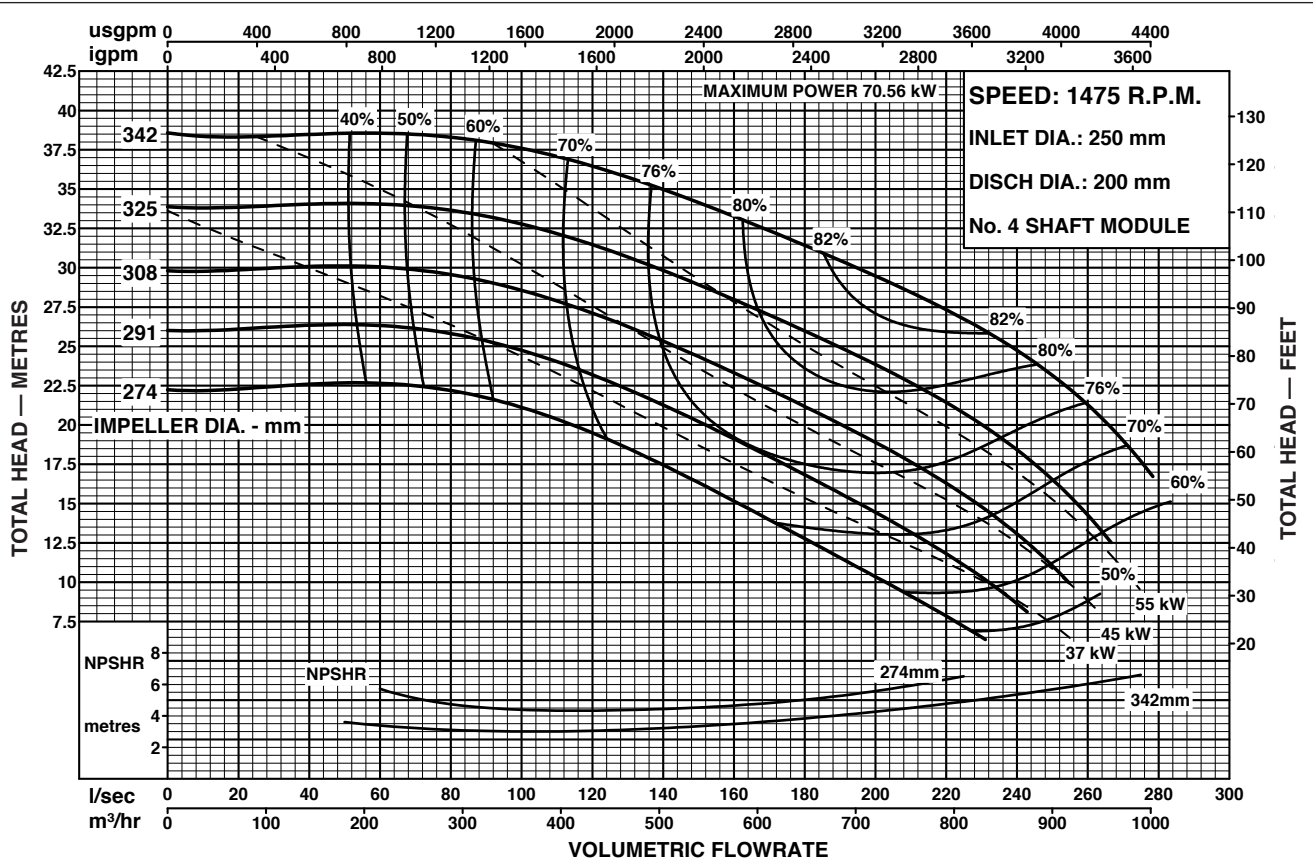
Performance to AS2417 Grade 2 for clean, cold water only.

May 2005



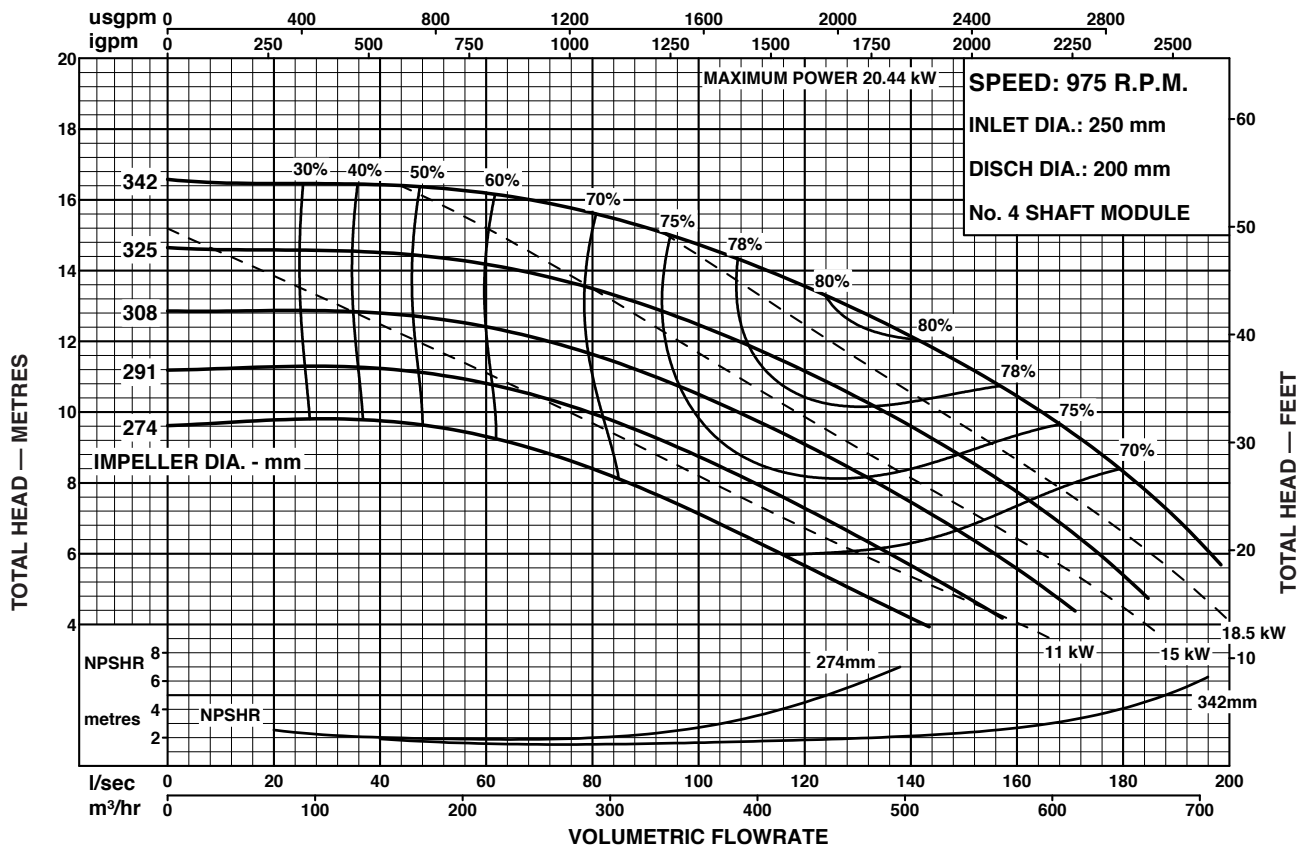
250 x 200-315

CENTRIFUGAL PUMP PERFORMANCE DATA



Performance to AS2417 Grade 2 for clean, cold water only.

May 2005



Performance to AS2417 Grade 2 for clean, cold water only.

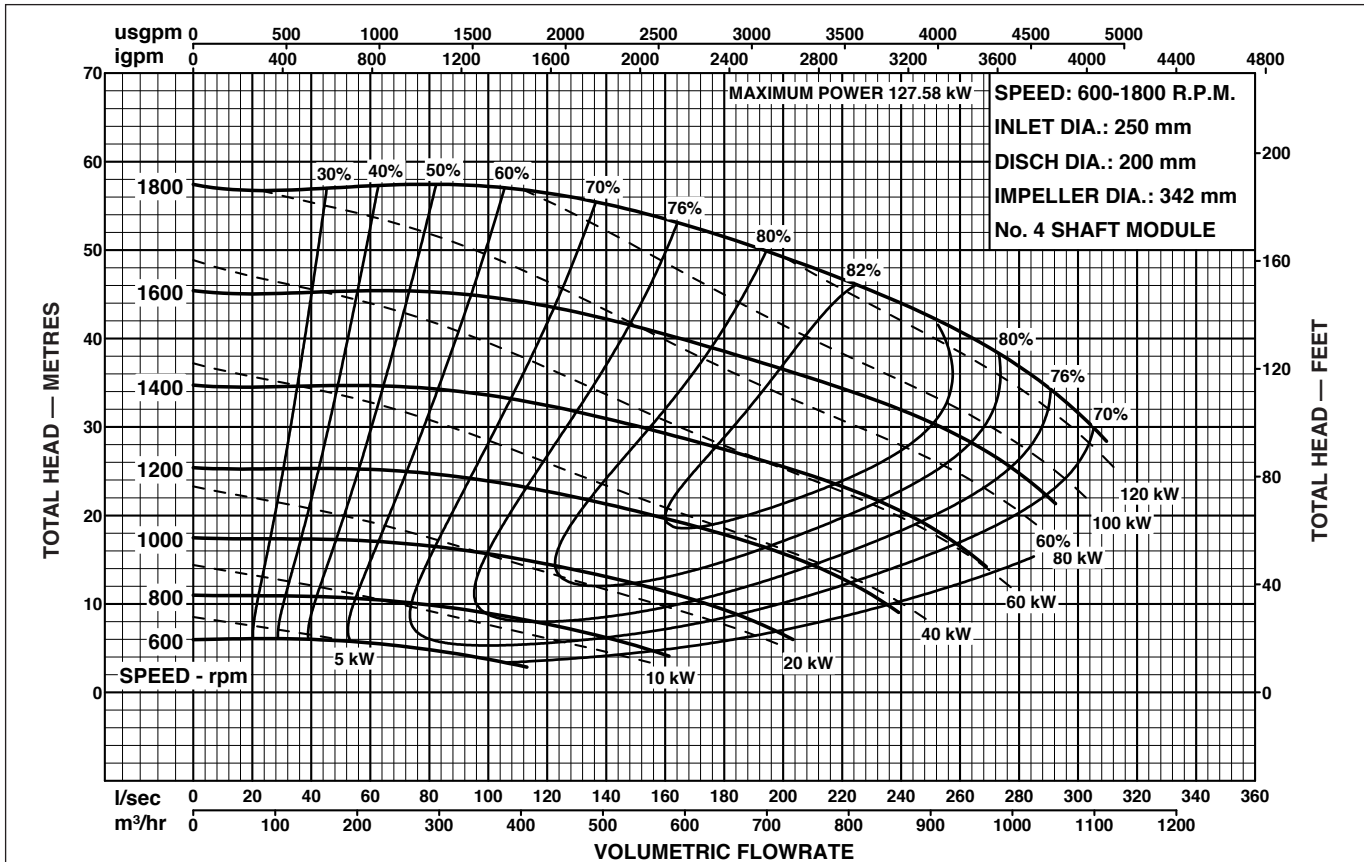
May 2005

250 x 200-315

ISO-PRO



CENTRIFUGAL PUMP PERFORMANCE DATA



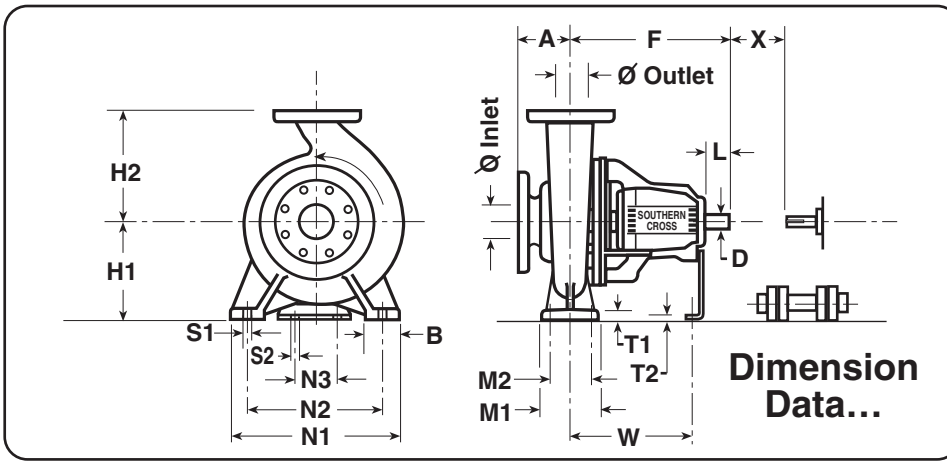
Performance to AS2417 Grade 2 for clean, cold water only.

May 2005

Performance to AS2417 Grade 2 for clean, cold water only.

May 2005

A division of **tyco** Flow Control Pacific Pty Ltd A.B.N. 83 000 922 690



Dimension Data...



PUMP SIZE			SHAFT No.	PUMP DIMENSIONS				MOUNTING DIMENSIONS									BOLT HOLES		SHAFT END		GAP *	PUMP MASS
INLET	OUTLET	IMP DIA		A	F	H1	H2	B	M1	M2	N1	N2	N3	T1	T2	W	S1	S2	D	L	X	kg
50	32	160	1	80	385	132	160	50	100	70	240	190	110	12	6	285	M12	M12	24	50	100	43
50	32	200	1	80	385	160	180	50	100	70	240	190	110	13	6	285	M12	M12	24	50	100	49
65	50	160	1	80	385	132	160	50	100	70	240	190	110	12	6	285	M12	M12	24	50	100	44
65	40	200	1	100	385	160	180	50	100	70	265	212	110	13	6	285	M12	M12	24	50	100	51
65	40	250	2	100	500	180	225	65	125	95	320	250	110	14	6	370	M12	M12	32	80	100	71
65	40	315	2	125	500	200	250	65	125	95	345	280	110	16	6	370	M12	M12	32	80	100	90
80	65	160	1	100	385	160	180	50	100	70	265	212	110	13	6	285	M12	M12	24	50	100	49
80	50	200	1	100	385	160	200	50	100	70	265	212	110	13	6	285	M12	M12	24	50	100	53
80	50	250	2	125	500	180	225	65	125	95	320	250	110	15	6	370	M12	M12	32	80	100	76
80	50	315	2	125	500	225	280	65	125	95	345	280	110	18	6	370	M12	M12	32	80	100	94
100	80	160	2	100	500	160	200	65	125	95	280	212	110	14	6	370	M12	M12	32	80	100	68
100	65	200	2	100	500	180	225	65	125	95	320	250	110	15	6	370	M12	M12	32	80	140	72
100	65	250	2	125	500	200	250	80	160	120	360	280	110	16	6	370	M16	M12	32	80	140	84
100	65	315	3	125	530	225	280	80	160	120	400	315	110	18	8	370	M16	M12	48	110	140	122
125	80	200	2	125	500	180	250	65	125	95	345	280	110	16	6	320	M12	M12	32	80	140	81
125	80	250	2	125	500	225	280	80	160	120	400	315	110	18	6	320	M16	M12	32	80	140	88
125	80	315	3	125	530	250	315	80	160	120	400	315	110	20	8	370	M16	M12	48	110	140	130
125	80	400	3	125	530	280	355	80	160	120	435	355	110	20	8	370	M16	M12	48	110	140	163
125	100	200	2	125	500	200	280	80	160	120	360	280	110	17	6	370	M16	M12	32	80	140	87
125	100	250	3	140	530	225	280	80	160	120	400	315	110	18	8	370	M16	M12	48	110	140	122
125	100	315	3	140	530	250	315	80	160	120	400	315	110	19	8	370	M16	M12	48	110	140	138
125	100	400	3	140	530	280	355	100	200	150	500	400	110	20	8	370	M20	M12	48	110	140	175
125	100	500	4	160	670	355	450	100	210	150	540	450	140	25	10	500	M20	M16	60	110	180	378
150	125	250	3	140	530	250	355	80	160	120	400	315	110	19	8	370	M16	M12	48	110	140	135
150	125	315	3	140	530	280	355	100	200	150	500	400	110	20	8	370	M20	M12	48	110	140	156
150	125	400	3	140	530	315	400	100	200	150	500	400	110	21	8	370	M20	M12	48	110	140	193
150	125	500	4	160	670	355	450	100	210	150	540	450	140	25	10	500	M20	M16	60	110	180	402
200	150	315	4	160	670	315	400	100	210	150	540	450	140	20	10	500	M20	M16	60	110	180	274
200	150	400	4	160	670	315	450	100	210	150	540	450	140	25	10	500	M20	M16	60	110	180	339
200	150	500	4	160	670	400	500	100	210	150	540	450	140	25	10	500	M20	M16	60	110	180	426
250	200	315	4	180	670	315	450	100	210	150	540	450	140	25	10	500	M20	M16	60	110	180	314

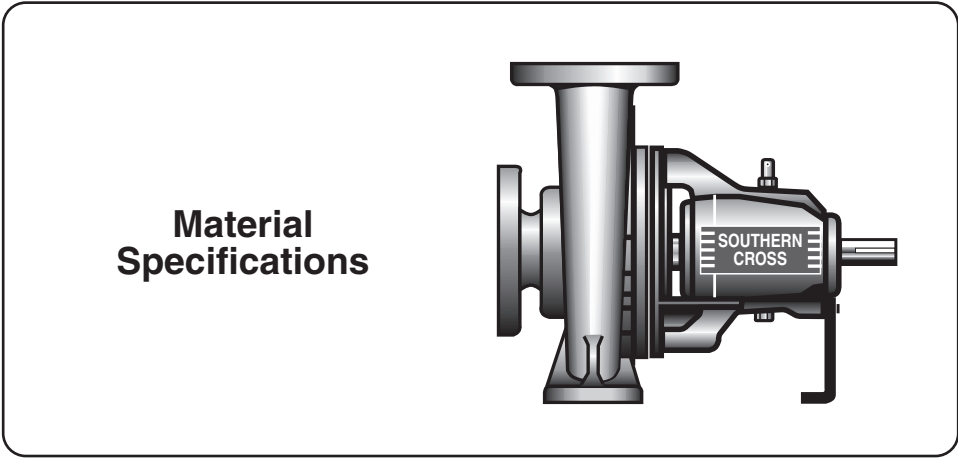
Standard Flange Drilling to AS2129—1982 Table 'E'

Other drilling options available on request.

Dimensions in millimetres

* Gap necessary for the withdrawal of bearing housing, backplate and impeller assembly towards the drive end.

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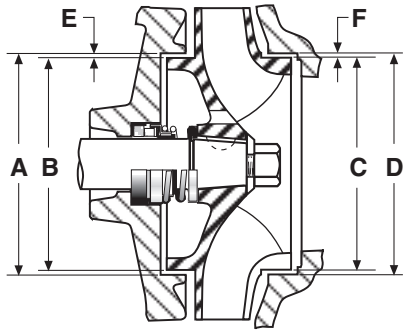
MATERIAL SPECIFICATIONS			
SYMBOL	MATERIAL	SPECIFICATION	COMPONENT WHERE USED
CI	Cast Iron	AS1830/T260 Equivalent Standards: BS 1452 (1977) Grade 260 ANSI. 625.1 Class 40 ASTM A48 Class 40	Bearing Housing Bearing Cover Volute Casing Backplate Impeller
ZF	Zinc Free Bronze	AS 1565/ C90250 Equivalent Standards: BS 1400 PB3, ISO 1338 CU SN 10	Volute Casing Backplate Impeller Wear rings
SS	Cast Stainless Steel	AS 2074/H6B Equivalent Standards BS 100 (1976) Grade 316C16 ASTM A296 Grade CF8M	Volute Casing Backplate Impeller Wear Rings
	Wrought Stainless Steel	AS 2837/431 Equivalent Standards: BS 970 Grade 431 S29 ASTM A176/S43100	Shaft
		AS 2837/316 Equivalent Standards: BS 970 Grade 319S16 ASTM A240/S31609	Shaft Impeller Washer Impeller Nut Casing & Discharge Flange Plugs
	316 SS	AS 2548 Gr. A4-80	Bolts & Setscrews (ZF & SS Only)
	2205 Duplex SS	UNS S31803 ASTM A276-98b	Impeller key
MS	Mild Steel	AS 1204/250	Support foot
HT	High Tensile Steel	AS 1110 Gr. 8.8	All Bolts and Setscrews
	Mild Steel Zinc Plated		Casing and Discharge Flange Plugs
	Key Steel		Pulley key

PAINTING

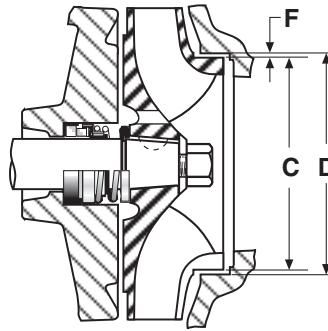
One Coat — Watty Super Etch Grey Primer (Watty Part No. 123907)
 Two Coats — Watty 517 Hammer Finish Green (Watty Part No. 151741)
 Colour — Hammer Finish Green

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Impeller Clearances



No. 1, 2, and 3 Shaft



No. 4 Shaft



PUMP SIZE		IMPELLER AND CASING SEALING DIAMETERS						RADIAL CLEARANCE			
		A	B		C		D	E		F	
CI/ZF	SS		CI/ZF	SS	CI/ZF	SS		CI/ZF	SS	CI/ZF	SS
50 x 32-160	65 x 50-160	92.05	91.76	91.63	91.76	91.63	92.05	0.12	0.18	0.12	0.18
		92.00	91.71	91.58	91.71	91.58	92.00	0.17	0.23	0.17	0.23
80 x 65-160		92.05	91.76	91.63	104.72	104.57	105.05	0.12	0.18	0.14	0.21
		92.00	91.71	91.58	104.67	104.52	105.00	0.17	0.23	0.19	0.26
100x 80-160		132.05	131.68	131.51	131.68	131.51	132.05	0.16	0.24	0.16	0.24
		132.00	131.61	131.44	131.61	131.44	132.00	0.22	0.30	0.22	0.30
50 x 32-200	65 x 40-200	105.05	104.72	104.57	91.76	91.63	92.05	0.14	0.21	0.12	0.18
		105.00	104.67	104.52	91.71	91.58	92.00	0.19	0.26	0.17	0.23
80 x 50-200		105.05	104.72	104.57	104.72	104.57	105.05	0.14	0.21	0.14	0.21
		105.00	104.67	104.52	104.67	104.52	105.00	0.19	0.26	0.19	0.26
100 x 65-200		132.05	131.68	131.51	131.68	131.51	132.05	0.16	0.24	0.16	0.24
		132.00	131.61	131.44	131.61	131.44	132.00	0.22	0.30	0.22	0.30
125 x 80-200	125 x 100-200	160.05	159.66	159.49	159.66	159.49	160.05	0.17	0.25	0.17	0.25
		160.00	159.59	159.42	159.59	159.42	160.00	0.23	0.31	0.23	0.31
65 x 40-250	80 x 50-250	115.05	114.70	114.55	114.70	114.55	115.05	0.15	0.22	0.15	0.22
		115.00	114.65	114.50	114.65	114.50	115.00	0.20	0.27	0.20	0.27
100 x 65-250		132.05	131.68	131.51	131.68	131.51	132.05	0.16	0.24	0.16	0.24
		132.00	131.61	131.44	131.61	131.44	132.00	0.22	0.30	0.22	0.30
125 x 80-250		132.05	131.68	131.51	159.66	159.49	160.05	0.16	0.24	0.17	0.25
		132.00	131.61	131.44	159.59	159.42	160.00	0.22	0.30	0.23	0.31
65 x 40-315		115.05	114.70	114.55	104.72	104.57	105.05	0.15	0.22	0.14	0.21
		115.00	114.65	114.50	104.67	104.52	105.00	0.20	0.27	0.19	0.26
80 x 50-315		115.05	114.70	114.55	114.70	114.55	115.05	0.15	0.22	0.15	0.22
		115.00	114.65	114.50	114.65	114.50	115.00	0.20	0.27	0.20	0.27
125 x 100-250	150 x 125-250	186.05	185.66	185.48	185.66	185.48	186.05	0.17	0.26	0.17	0.26
		186.00	185.59	185.41	185.59	185.41	186.00	0.23	0.32	0.23	0.32
125 x 125-315	125 x 80-400										
125 x 100-400	150 x 125-400										
100 x 65-315	125 x 80-315	160.05	159.66	159.49	159.66	159.49	160.05	0.17	0.25	0.17	0.25
		160.00	159.59	159.42	159.59	159.42	160.00	0.23	0.31	0.23	0.31
200 x 150-315	200 x 150-400	—	—	—	235.09	234.93	235.59	—	—	0.22	0.30
		—	—	—	235.03	234.87	235.53	—	—	0.28	0.36
250 x 200-315		—	—	—	265.11	264.97	265.66	—	—	0.24	0.31
		—	—	—	265.05	264.91	265.60	—	—	0.30	0.37
125 x 100-500		—	—	—	170.09	169.90	170.51	—	—	0.18	0.27
		—	—	—	170.03	169.84	170.45	—	—	0.24	0.33
150 x 125-500		—	—	—	200.10	199.90	200.55	—	—	0.19	0.29
		—	—	—	200.04	199.84	200.49	—	—	0.25	0.35

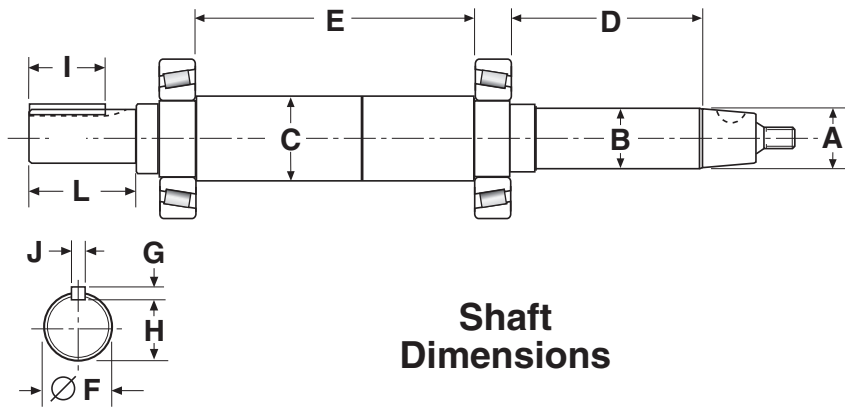
MACHING SIZES TO RETROFIT WEAR RINGS TO CASINGS AND IMPELLERS	NOM. SIZE	IMP. WEAR RING	IMP. TURN SIZE	CASINGWEAR RING	CASING BORE SIZE
	92mm	SEA026	Ø 84.830 / 84.795	SEA027	Ø 99.000 / 99.035
	105mm	SEC026	Ø 97.830 / 97.795	SEC027	Ø 112.000 / 112.035
	115mm	SGB026	Ø 106.800 / 106.765	SGB027	Ø 123.000 / 123.035
	132mm	SED026	Ø 123.77 / 123.73	SED027	Ø 140.000 / 140.040
	160mm	SFF026	Ø 151.770 / 151.730	SFF027	Ø 168.000 / 168.040
	170mm	SKF026	Ø 158.08 / 158.03	SKF027	Ø 182.46 / 182.51
	185mm	SGF026	Ø 177.770 / 177.730	SGF027	Ø 194.000 / 194.040
	200mm	SKG026	Ø 188.10 / 188.05	SKG027	Ø 210.50 / 210.55
	235mm	SHH026	Ø 223.09 / 223.04	SHH027	Ø 247.55 / 247.60
265mm	SHJ026	Ø 253.10 / 253.05	SHJ027	Ø 277.62 / 277.67	

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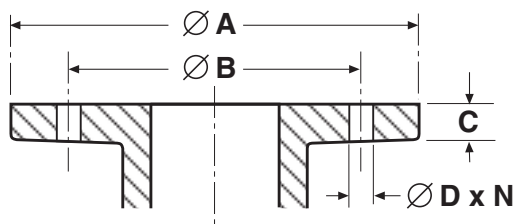
Shaft Dimensions

SHAFT MODULE	SHAFT DIMENSIONS											BEARING SIZES	
	A	B	C	D	E	F (Diam.) NOM. TOL.	G	H (Depth) NOM. TOL.	I	J	L	IMP. END	DRIVE END
No. 1 SHAFT	25.27	33	45	127	128.2	24 +0.01 -0.01	7	20 +0 -0.2	30	8	50	30307	30307
No. 2 SHAFT	34.8	43	54	138.5	193.35	32 +0.02 -0	8	27 +0 -0.2	55	10	80	30309	30309
No. 3 SHAFT	45	53	66	156	156.8	48 +0.02 -0.01	9	42.5 +0 -0.2	80	14	110	30311	30311
NO. 4 SHAFT	53	60	75	201	219.6	60 +0.02 -0.01	11	53 +0 -0.2	80	18	110	30313	30313

PUMPS / SHAFT MODULES (Back Pull-out Weights kg)

No.1	No. 2	No. 3	No. 4
50 x 32 - 160 (28.9 kg)	100 x 80 - 160 (41.7 kg)	125 x 100 - 250 (71 kg)	200 x 150 - 315 (134 kg)
65 x 50 - 160 (28.8 kg)	100 x 65 - 200 (44.7 kg)	150 x 125 - 250 (71 kg)	250 x 200 - 315 (137 kg)
80 x 65 - 160 (29.0 kg)	125 x 80 - 200 (44.9 kg)	100 x 65 - 315 (76 kg)	200 x 150 - 400 (170 kg)
50 x 32 - 200 (33.1 kg)	125 x 100 - 200 (45.1 kg)	125 x 80 - 315 (76 kg)	125 x 100 - 500 (190 kg)
65 x 40 - 200 (33.4 kg)	65 x 40 - 250 (48.9 kg)	125 x 100 - 315 (77 kg)	150 x 125 - 500 (193 kg)
80 x 50 - 200 (33.4 kg)	80 x 50 - 250 (48.9 kg)	150 x 125 - 315 (77 kg)	200 x 150 - 500 (197 kg)
	100 x 65 - 250 (49.5 kg)	125 x 80 - 400 (98 kg)	
	125 x 80 - 250 (49.8 kg)	125 x 100 - 400 (98 kg)	
	65 x 40 - 315 (61.4 kg)	150 x 125 - 400 (99 kg)	
	80 x 50 - 315 (60.5 kg)		

FLANGE DIMENSIONS

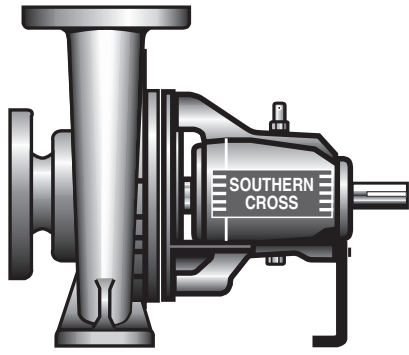


NOTE:

- Holes machined off centrelines.
- Flange drilling as shown below conforms to AS 2129—1982 Table 'E' for cast iron flanges.
- Flange drilling to ANSI B16.1.1975 Class 125 (ISO7005 — PN20) PN16 are available options.
- * Discharge flanges on No. 4 shaft pumps are tapped as follows...
125x100-500 and 150x125-500 tapped M16 x 2mm
200x150-315, 200x150-400, 200x150-500 and 250x 200-315 tapped M20 x 2.5mm

NOMINAL FLANGE SIZE		32	40	50	65	80	* 100	* 125	* 150	* 200	250
FLANGE DIAMETER	A	140	150	165	185	200	220	250	285	340	405
HOLE P.C.D.	B	87	98	114	127	146	178	210	235	292	356
FLANGE THICKNESS	C	18	18	20	20	22	24	26	26	30	32
HOLE DIAMETER	D	14	14	18	18	18	18	18	22	22	22
NUMBER OF HOLES	N	4	4	4	4	4	8	8	8	8	12

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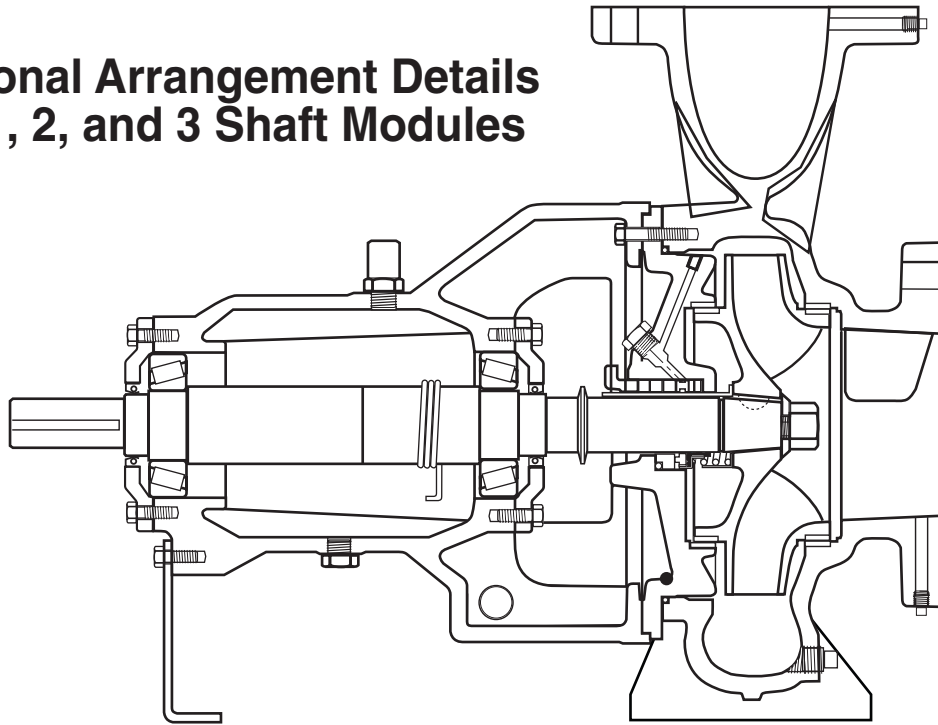


**Sectional
Arrangement**

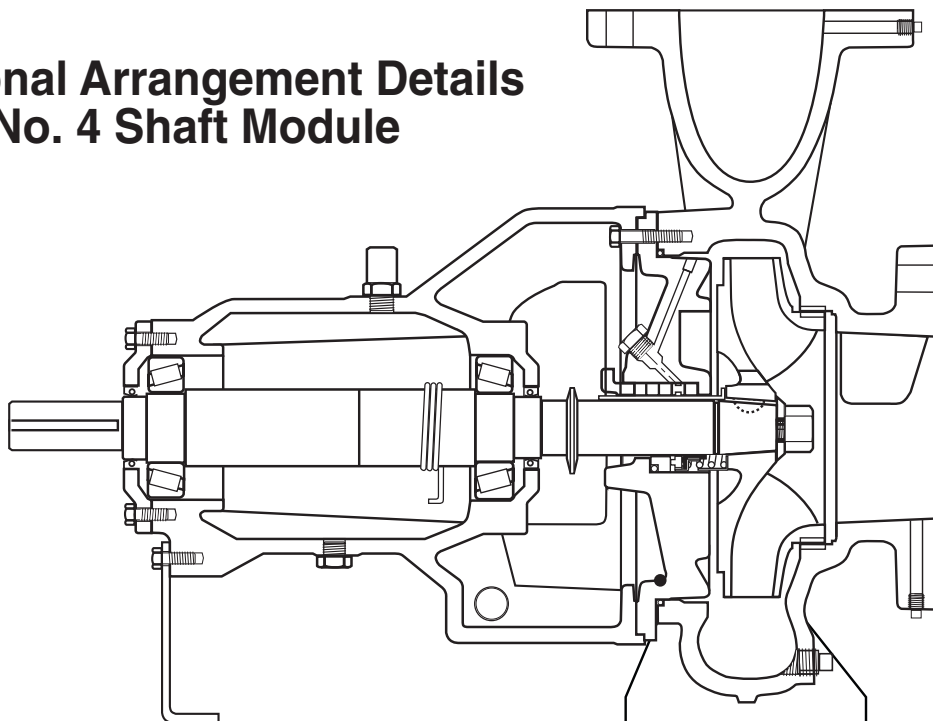


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PUMPS**

**Sectional Arrangement Details
No. 1, 2, and 3 Shaft Modules**



**Sectional Arrangement Details
No. 4 Shaft Module**



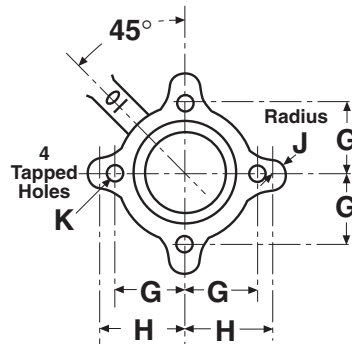
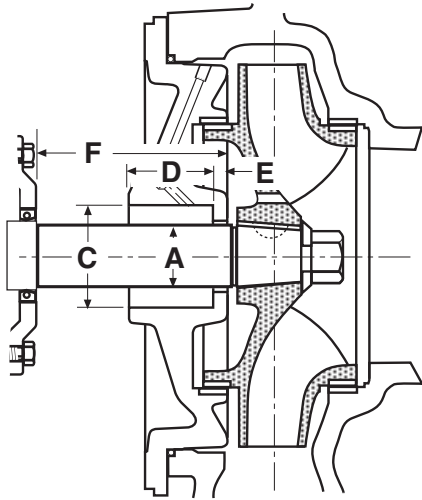
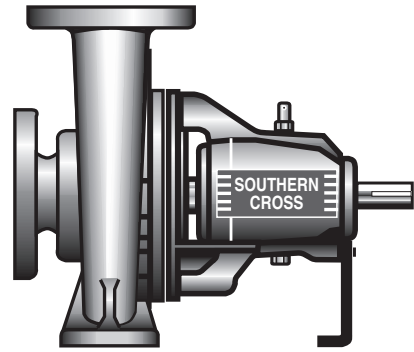
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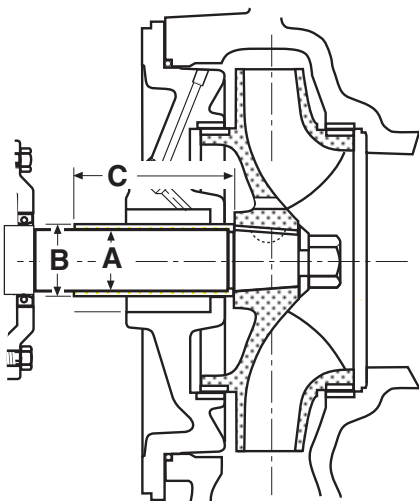
Seal Cavity and Shaft Sleeve Dimensions



Seal Cavity Dimension Data...

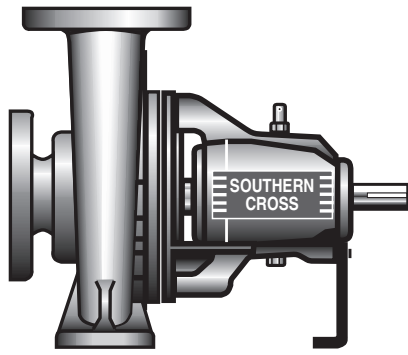
SHAFT MODULE	A	C	D	E	F	G	H	J	K
No.1 SHAFT	32.97 33.00	56.10 56.25	56.00	7.00	109	39.0	45	12	M10 x 1.5
No. 2 SHAFT	42.97 43.00	66.10 66.25	56.00	8.00	116	45.0	51	12	M10 X 1.5
No. 3 SHAFT	52.97 53.00	80.10 80.25	68.50	9.00	135	53.0	60	12	M10 x 1.5
NO. 4 SHAFT	59.96 60.00	92.10 92.30	100.0	10.0	167	62.5	62.5	12	M12 x 1.75

Shaft Sleeve Dimension Data



SHAFT MODULE	A	B	C
No.1 SHAFT	33	40	96
No. 2 SHAFT	43	50	96
No. 3 SHAFT	53	60	110
NO. 4 SHAFT	60	68	140

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**Miscellaneous
Pump
Data
No. 1, 2, 3 and
4 Shaft**



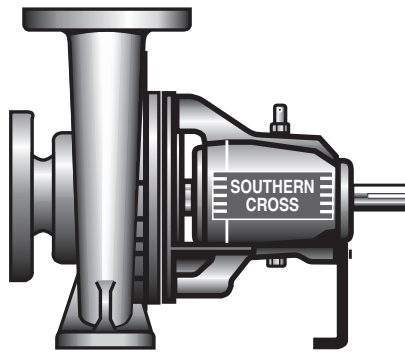
PUMP SIZE	C.I. IMPELLER kg	IMPELLER ROTATIONAL INERTIA (kg/m ²)	MIN. CASING THICKNESS (mm)	C.I.-Z.F. IMPELLER		SHAFT CRITICAL SPEED (r.p.m.)	MAX. OPERATING SPEED (r.p.m.)	IMPELLER	
				HYDROSTATIC TEST PRESSURE (kPa)	MAX. WORKING PRESSURE (kPa)			No. of VANES	MAX SPHERE SIZE (mm)
50 x 32 - 160	2.7	0.008	9	3800	2500	14,600	3600	6	5
65 x 50 - 160	2.6	0.008	9	3800	2500	14,600	3600	6	7
80 x 65 - 160	2.8	0.010	10	3800	2500	14,600	3600	6	11
100 x 80 - 160	4.2	0.014	10	3800	2500	16,700	3600	6	12
50 x 32 - 200	3.7	0.018	9	3300	2200	12,400	3600	6	4
65 x 40 - 200	4.0	0.019	9	3800	2500	12,400	3600	6	5
80 x 50 - 200	4.0	0.021	10	3800	2500	12,400	3600	6	9
100 x 65 - 200	6.0	0.033	10	2800	1850	14,900	3600	6	14
125 x 80 - 200	6.5	0.037	11.5	2620	1750	13,900	3000	6	15
125 x 100 - 200	6.4	0.036	13	3000	2000	14,400	3000	6	17
65 x 40 - 250	6.0	0.042	10	3300	2200	14,900	3600	5	5
80 x 50 - 250	6.0	0.042	10	2800	1900	14,900	3600	6	6
100 x 65 - 250	7.0	0.052	11	2600	1700	13,600	3000	6	9
125 x 80 - 250	8.0	0.061	12.5	2620	1750	12,600	3000	6	15
125 x 100 - 250	9.5	0.077	12	2400	1600	14,450	3000	6	23
150 x 125 - 250	10	0.088	14	2470	1650	13,970	2600	6	33
65 x 40 - 315	10.1	0.128	11	2800	1900	12,600	3000	5	5
80 x 50 - 315	9.2	0.112	12	3300	2200	11,800	3000	5	7
100 x 65 - 315	12.3	0.139	13	2700	1800	12,820	3000	6	9.5
125 x 80 - 315	13.0	0.152	14	2620	1750	12,300	3000	6	11.5
125 x 100 - 315	13.2	0.157	16	3070	2050	12,250	3000	6	14.5
150 x 125 - 315	13.4	0.164	16	2470	1650	12,160	2500	6	26
200 x 150 - 315	20	0.285	17	2400	1600	8660	2100	6	23
250 x 200 - 315	24	0.360	18	2400	1600	7480	1800	6	29
125 x 80 - 400	20.5	0.422	15	2400	1600	9990	2300	5	9.5
125 x 100 - 400	19.9	0.389	16	2400	1600	10,140	2300	6	12
150 x 125 - 400	20.6	0.427	17	2400	1600	9970	2300	6	18
200 x 150 - 400	30	0.704	20	2400	1600	7380	1900	6	31
125 x 100 - 500	39	1.233	20	2400	1600	6710	1800	9	21
150 x 125 - 500	41	1.392	21	2400	1600	6510	1800	7	20
200 x 150 - 500	42	1.546	22	2400	1600	6360	1800	6	21.5

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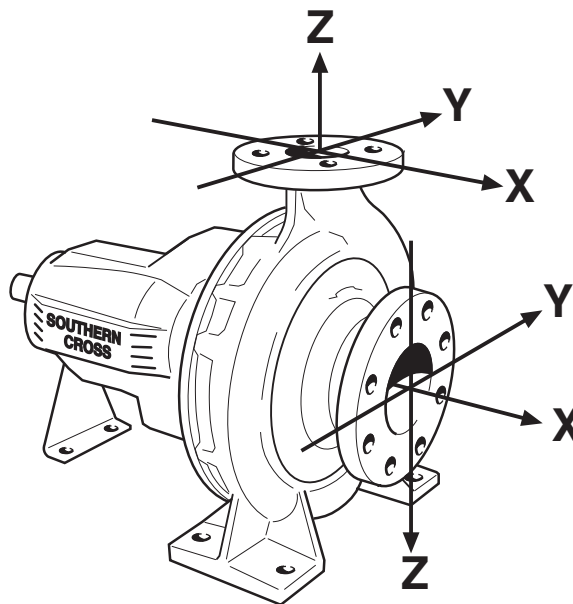
CENTRIFUGAL PUMPS



FORCES AND MOMENTS

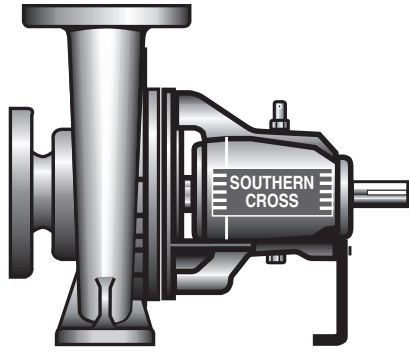
for
Pumps with Cast Iron Casings AS 1830 / T260

F_x F_y F_z Newtons
M_x M_y M_z Newton Metres



Flange Size	Suction			Discharge			Moments		
	F _x	F _y	F _z	F _x	F _y	F _z	M _x	M _y	M _z
50mm	445	356	289	356	289	445	230	115	176
65mm	556	445	367	445	367	556	352	176	268
80mm	667	534	445	534	445	667	474	237	359
100mm	890	712	578	712	578	890	664	338	502
125mm	1223	978	800	978	800	1223	908	464	691
150mm	1557	1245	1023	1245	1023	1557	1152	590	881
200mm	2446	1890	1556	1890	1556	2446	1762	881	1288
250mm	3336	2668	2224	2668	2224	3336	2508	1220	1898

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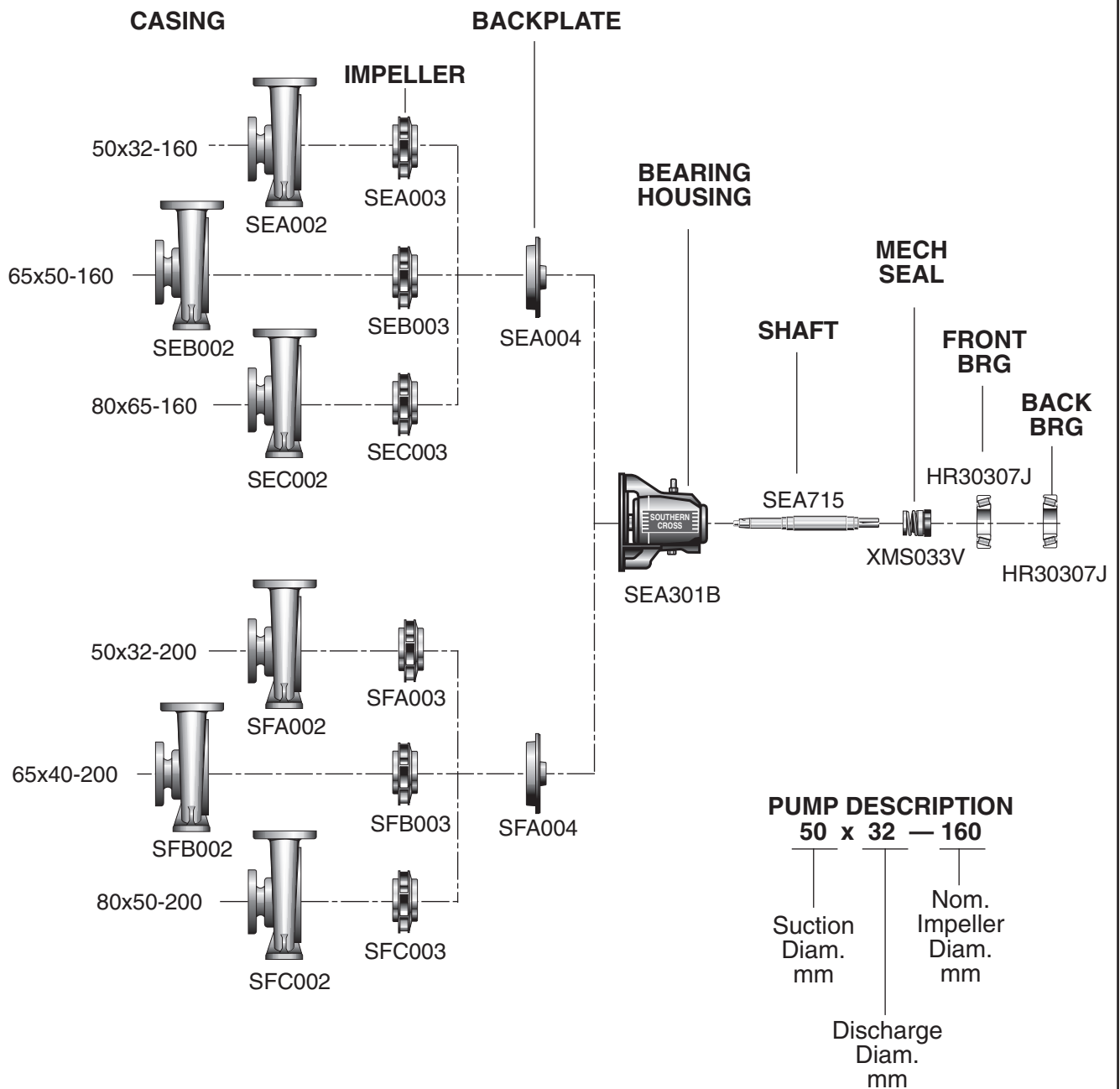


No. 1

Shaft Assembly Group



CENTRIFUGAL PUMPS



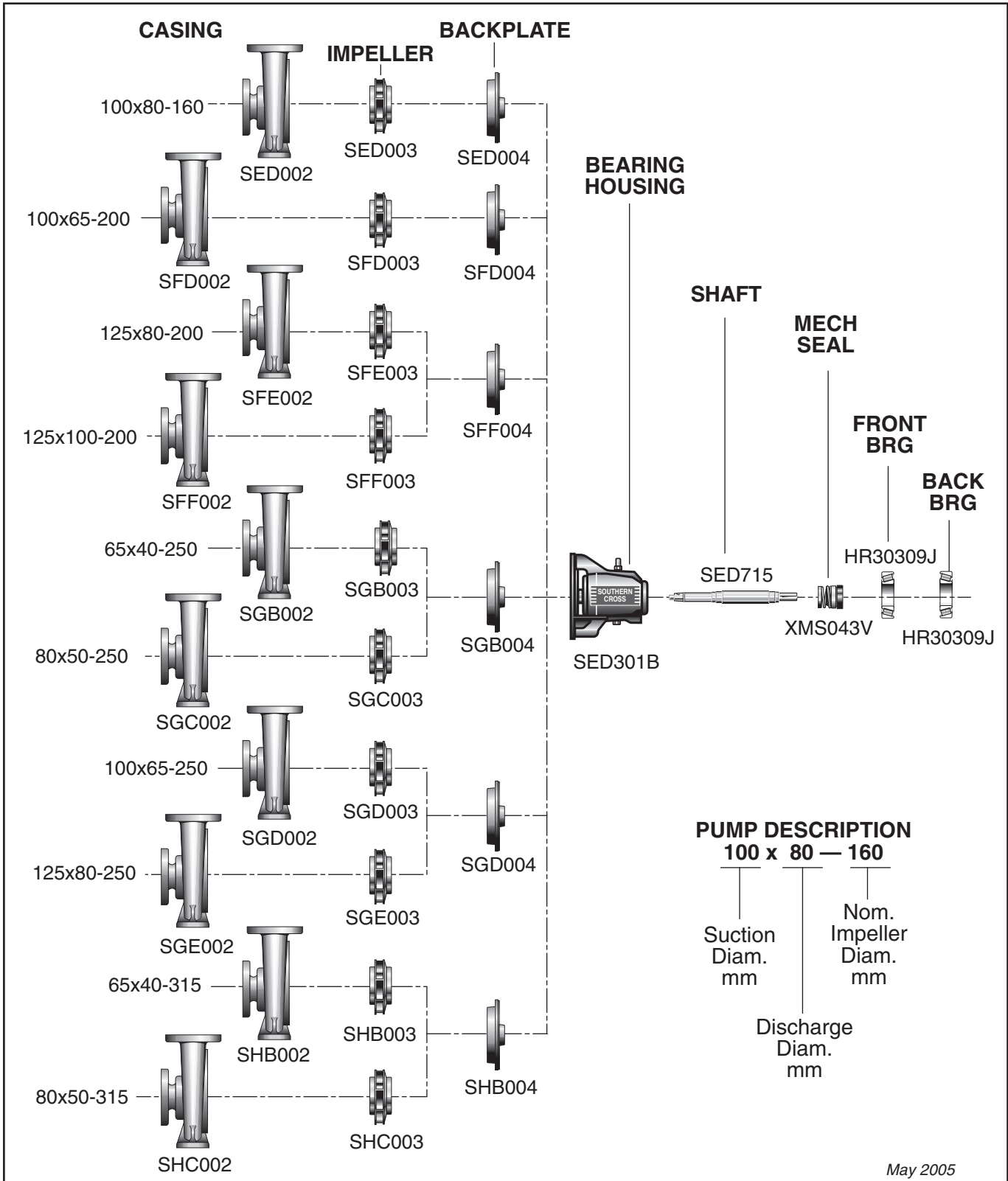
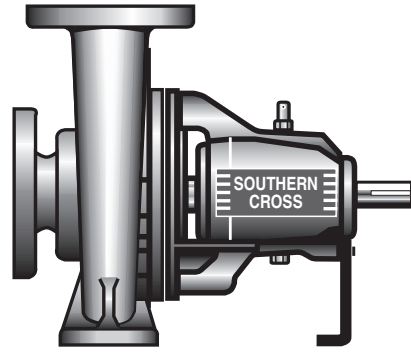
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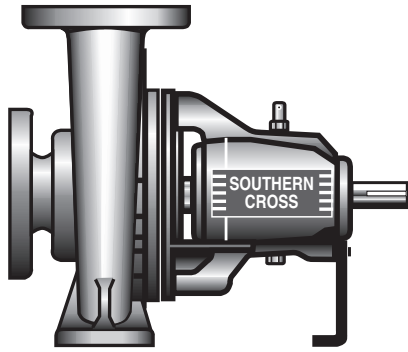
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No. 2
Shaft Assembly Group



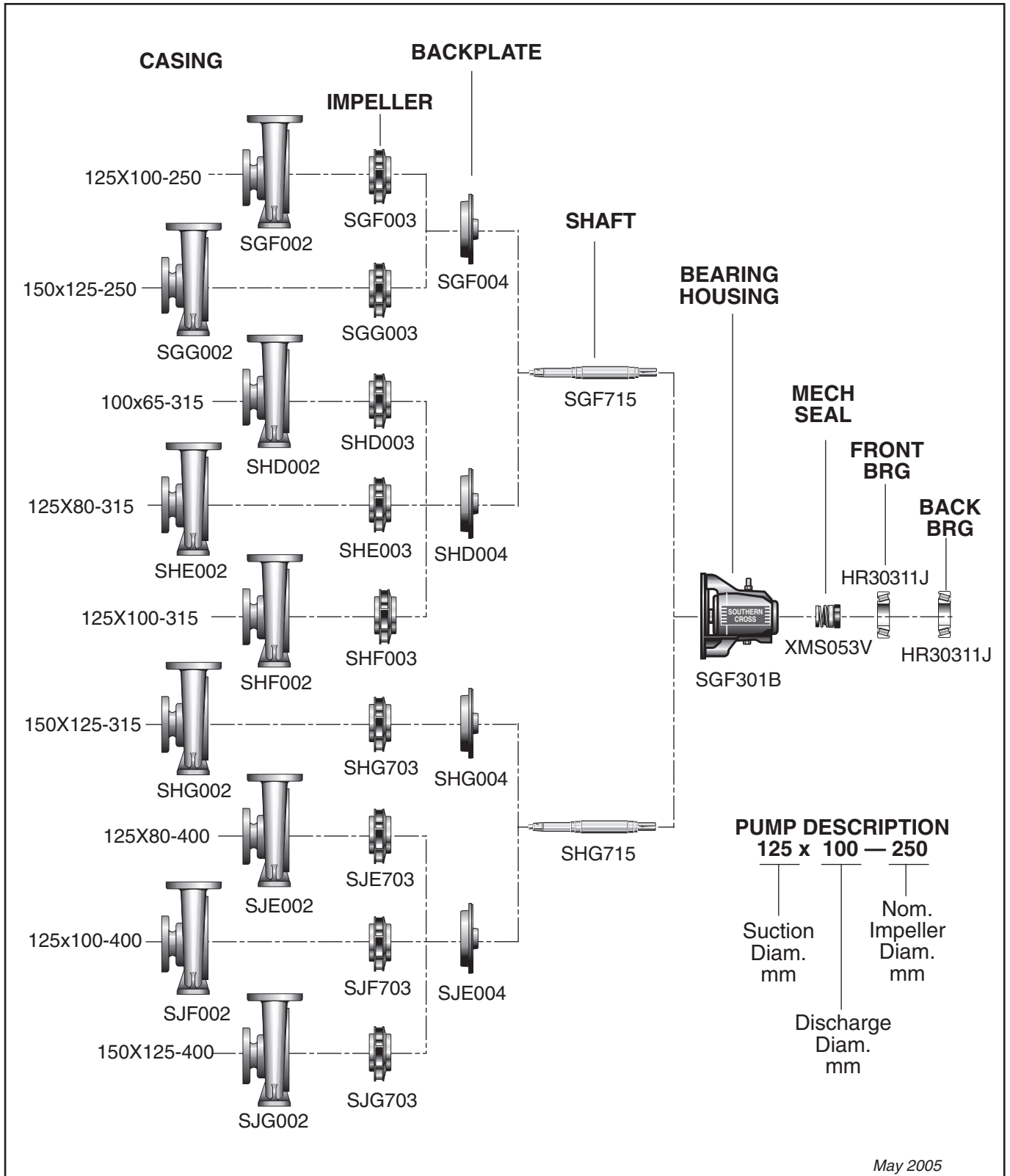


No. 3

Shaft Assembly Group



CENTRIFUGAL PUMPS

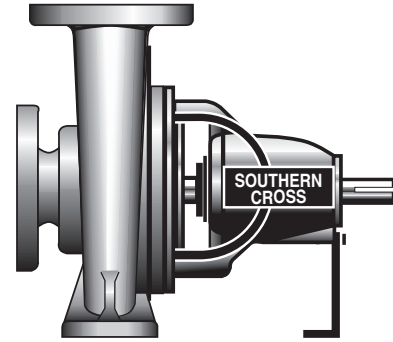


Southern Cross

ISO-PRO

CENTRIFUGAL PUMPS

No. 4
Shaft
Assembly
Group



BACKPLATE

CASING

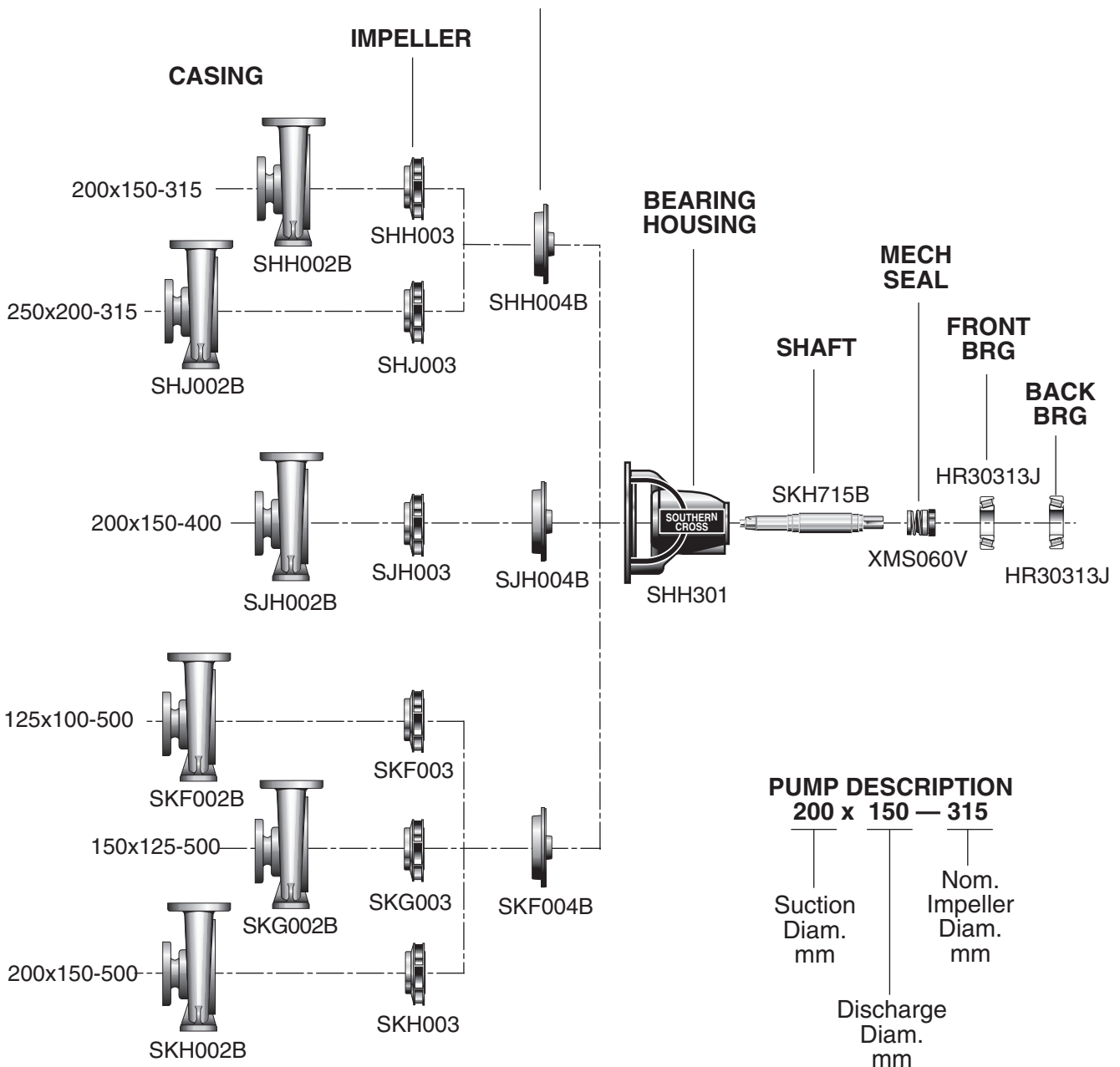
IMPELLER

BEARING HOUSING

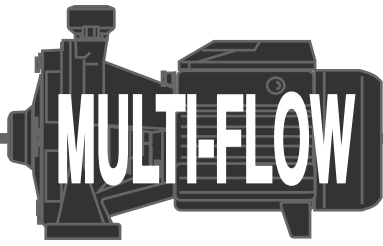
MECH SEAL

FRONT BRG

BACK BRG



May 2005



HEAVY DUTY ALL-PURPOSE TRANSFER PUMPS

STAINLESS STEEL and CAST IRON

HIGH PERFORMANCE... EXCEPTIONAL QUALITY...

- Stainless steel and cast iron pump housings.
- Self-priming model with in-built jet for shallow well applications.
- Single and multi-impeller models.
- Output to 180 litres per minute.
- Heads to 65m (90psi).
- 240v units supplied with lead and 3 pin plug.



SOUTHERN CROSS MULTI-FLOW PUMP PERFORMANCE

