

GC Vertical In-Line Pumps

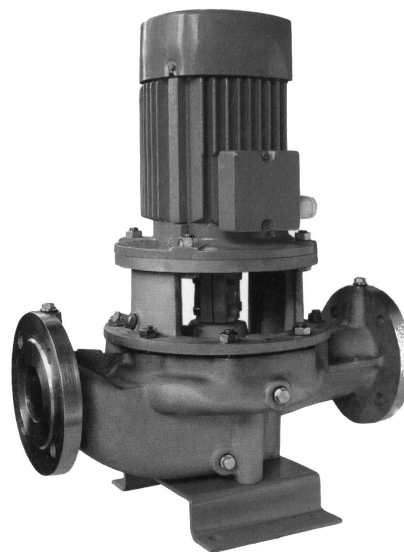
Extensively used in building services applications for the circulation of hot and cold water, and for arduous industrial duties, the GC pump range is particularly favoured for its compact design and small footprint.

An extensive range of pumps with discharge sizes from 40 mm to 300 mm.

Widest choice of materials of construction and options to suit many industrial and building services specific requirements.

Competitively priced and manufactured from components held in stock, with reliable prompt deliveries.

All pumps are manufactured strictly to **ISO 9001** quality control standards



Applications

- Chilled water circulation
- Condenser water
- LTHW systems
- Pressure boosting
- District heating systems
- Industrial liquid transfer
- Oils, solvents and process liquids
- Drinking and potable water
- Marine and shipboard service

Operating data

Flow rates up to 300 l/sec
Head up to 160 metres
Temperature -20°C to $+130^{\circ}\text{C}$

Construction

The GC range are vertical In-line centrifugal pumps, close coupled to an electric motor. The top-pull-out construction allows access to the impeller and mechanical seal without disturbing the suction and discharge pipework. Suction and discharge flanges are arranged on a common centreline for easy installation into a pipeline. The single stage closed impeller, with double curvature vanes for optimum efficiency and good suction performance, is statically and dynamically balanced for vibration free operation.

Electric motors

Apex GC pumps are supplied with a TEFC IP55 electric motor. Alternative motors including Eexd flameproof motors are readily available.

Materials

The pump pressure containing parts are cast in a variety of materials, selected to suit the working pressure of the pump, and to be compatible with the liquid being handled. Available materials are:

- Cast iron
- Ductile iron
- Cast 316 Stainless steel
- Cast bronze
- Cast steel
- Specialist steels eg Duplex, Hastalloy, Titanium

Flanges

Standard flanges are drilled to the British Standard BS4504, with pressure rating to suit the specific application:

BS4504 PN16	16 bar working pressure
BS4504 PN25	25 bar working pressure
BS4504 PN40	40 bar working pressure

ANSI standard flanges drilled to 150 lb or 300 lb ratings and all other standards are available on request.

Seals

The standard arrangement is a single mechanical seal. Double seals, balanced seals, cartridge seals and packed gland seals can be fitted to suit the application and to meet customers' preferences.

Service and support

Technical advice, spares, repair and service are available from Apex Pumps and authorised distributors.

Features of the GC pump range

Quality Control....

Every pump produced by Apex is manufactured strictly to ISO 9001 quality control procedures, and complies with the most rigorous documentary requirements of demanding customers.

More sizes....

New sizes are continually being added to the range, and with the recent introduction of the 250 mm and 300 mm discharge size pumps, and with motor powers up to 160 kW, the GC pump range is one of the most comprehensive ranges of vertical In-Line pumps available from any pump manufacturer today.

Larger stock....

Our policy of stocking large quantities of finished machined component parts, ready for immediate assembly, enables us to provide a fast delivery of complete pumps and spare parts, and has earned the company its good reputation for reliable delivery.

Specialist materials....

Apex have the capability to cast in specialist materials including stainless steel, Duplex stainless steel, Titanium and Hastalloy. Full materials certification and traceability can be arranged for specific components on a project.

Higher Pressures....

Pumps required to operate in tall buildings, and in certain industrial processes, need to operate at high working pressures. For these applications, Apex Pumps offer the GC pumps in cast steel, with flanges to BS4504 PN40.

Wide Choice of options....

Virtually any mechanical seal, cartridge seal or packed gland arrangement, with flush, quench or independent circulation system is possible with the Apex GC pump range. Modular construction enables the pump to be engineered using standard stock components wherever possible, and our in-house CNC machining facilities can quickly produce any special parts against tight deadlines.

Competitive Prices....

As a specialist manufacturer of centrifugal pumps, all Apex products are designed to be highly competitive without compromise to quality and good engineering practice.

....Benefit

The in-house engineering capability, attention to quality control and testing facilities make Apex the preferred choice for many high specification projects.

....Benefit

Greater choice results in a better hydraulic selection, optimised operating efficiency and lower power consumption. Now with 37 pump sizes to the Apex GC range, a cost-effective and properly engineered solution can be provided for most pumping applications.

....Benefit

Quick delivery is appreciated by users and pump distributors alike, and makes Apex Pumps the first choice for replacement of existing pumps of other makes.

....Benefit

Industrial applications are increasingly specifying stainless steel pump materials in recognition of the environmental and economic benefits. Apex Pump's investment in stainless steel stock parts, provides users with a standard pump to the highest specifications.

....Benefit

The GC pump in cast steel provides a cost effective solution to what would otherwise be a specialist pump application. Many component parts will be shared with other Apex pumps, providing spares interchangeability throughout the site.

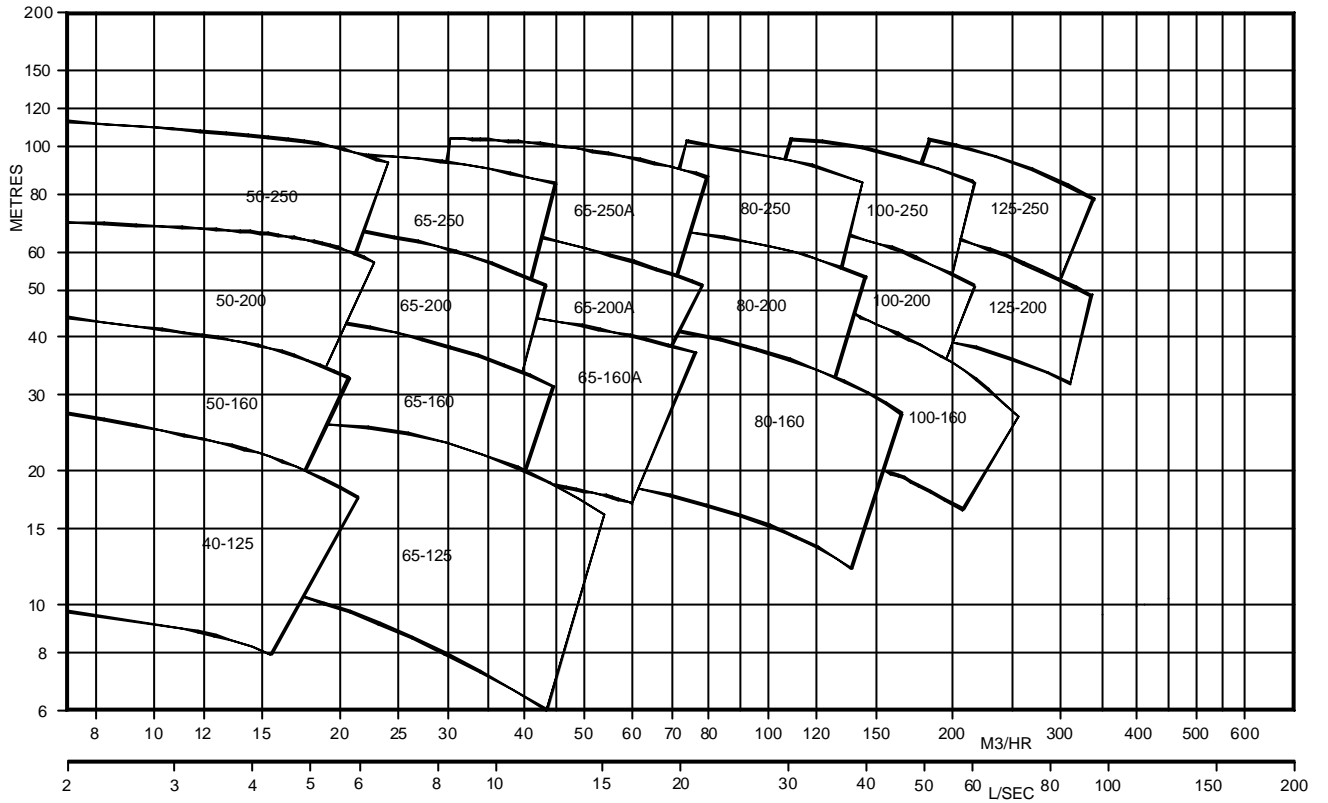
....Benefit

Pump users benefit by the broad engineering experience at Apex, and our familiarity with difficult applications and demanding duties.

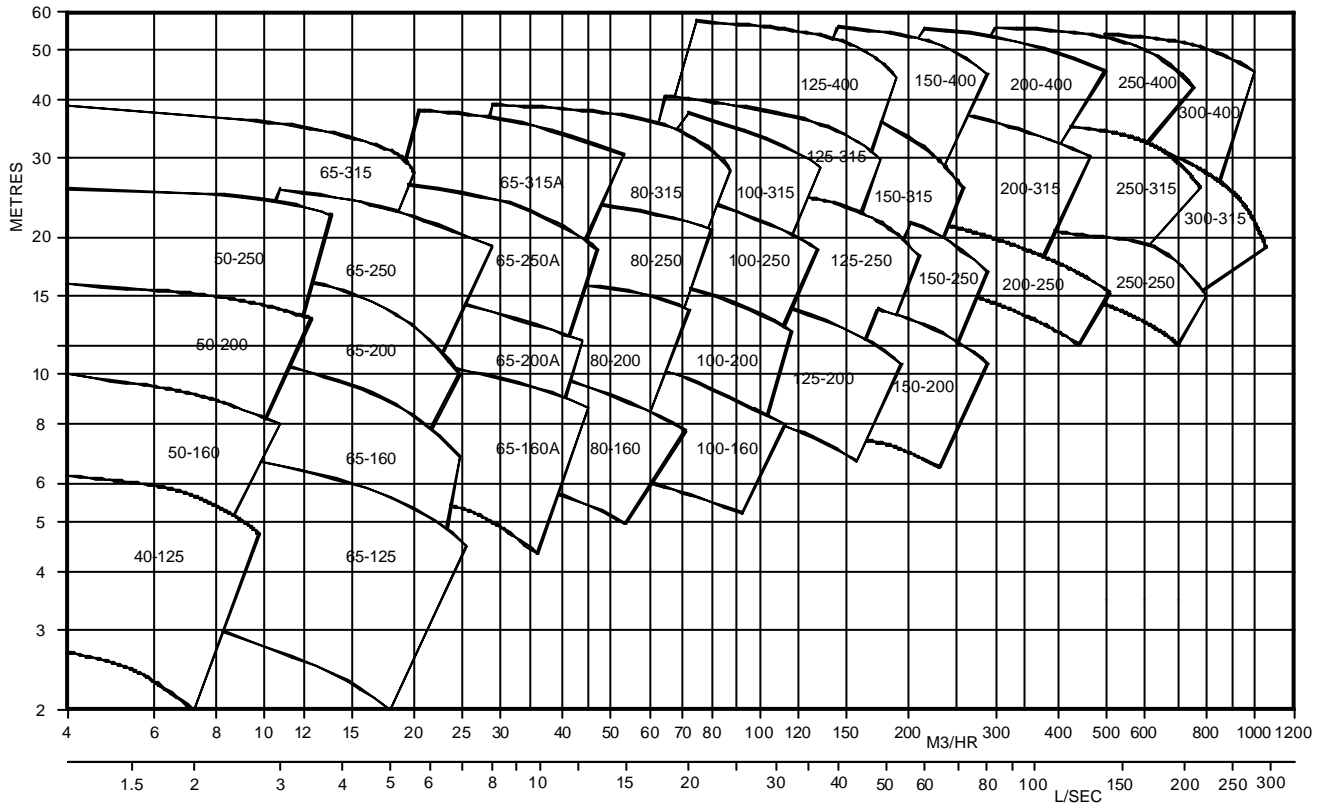
....Benefit

Apex fully supports its pump distributor network and customers by providing cost effective solutions to pumping problems.

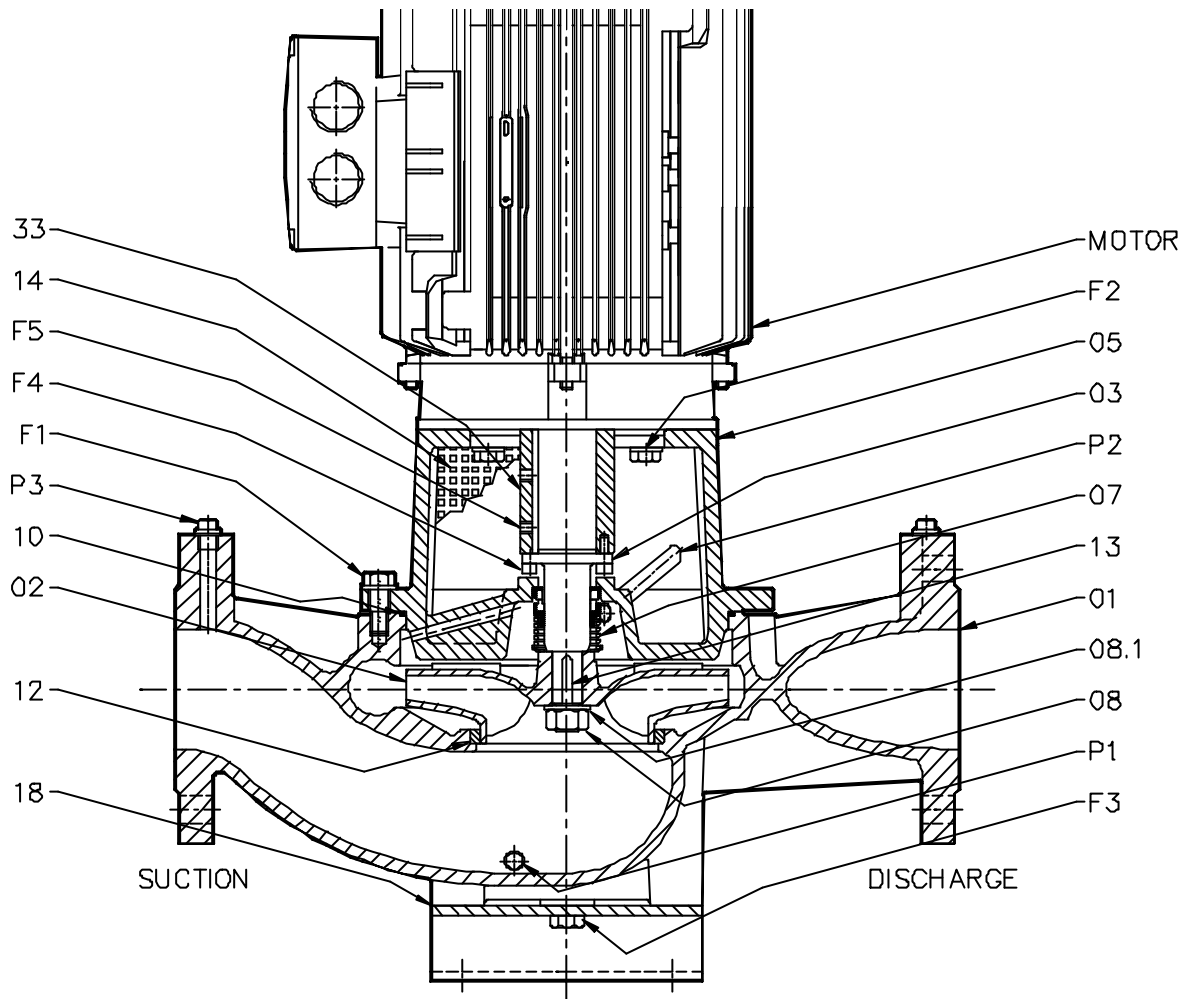
2 pole 2900 rpm



4 pole 1450 rpm

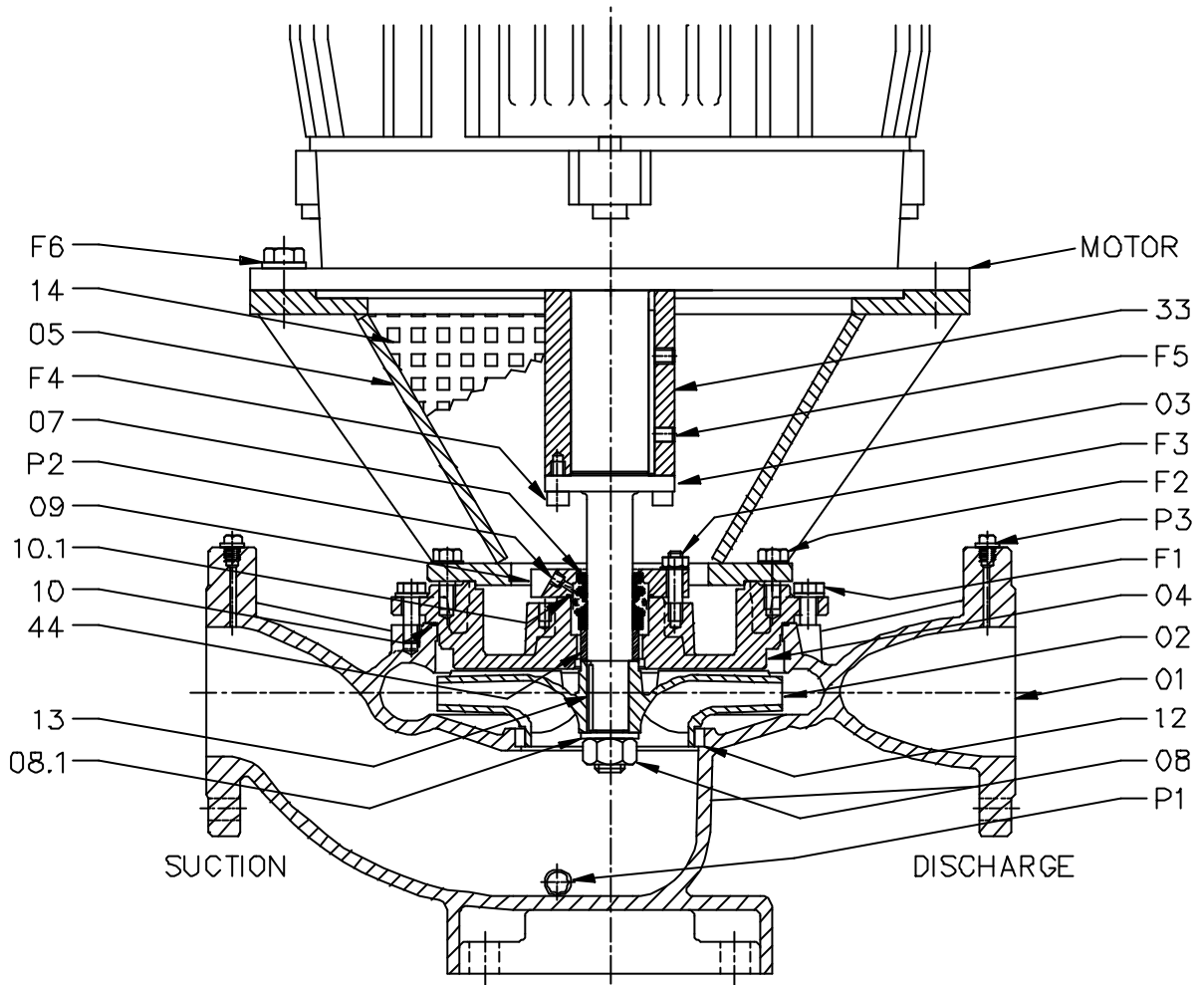


Typical cross section: small GC pumps



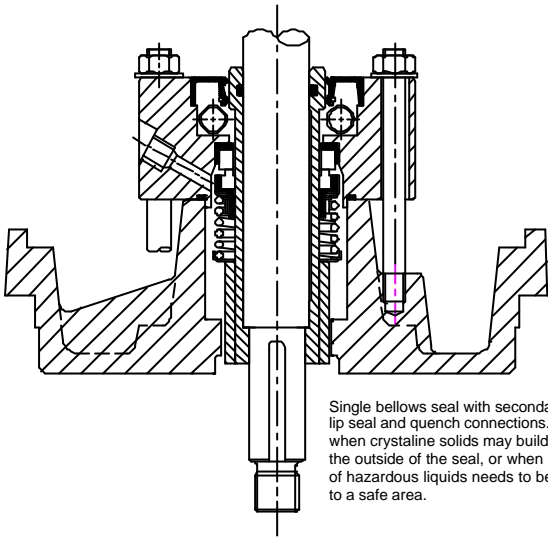
Ref	Item	Standard material	Alternative materials
01	Volute casing	Cast iron	Ductile iron, Bronze, 316 stainless steel
02	Impeller	Cast iron	Bronze, 316 stainless steel
03	Stubshaft	303 SS	316 stainless steel, Duplex stainless steel
05	Adaptor	Cast iron	Ductile iron, Bronze, 316 stainless steel
07	Mechanical seal	Carbon/Ceramic/Nitrile	Any commercial combination
08	Impeller nut	Steel	Bronze, 316 stainless steel
08.1	Impeller nut washer	Steel	Bronze, 316 stainless steel
10	Casing O ring	Nitrile	Viton
12	Casing wear ring	Cast iron	Bronze, 316 stainless steel
13	Impeller key	Key steel	316 stainless steel
14	Guard	Steel	
18	Support foot	Steel	
33	Motor sleeve	Steel	
F1	Casing bolts	Steel	316 stainless steel
F2	Motor flange bolts	Steel	
F3	Support foot bolts	Steel	
F4	Stubshaft socket cap screws	Steel	
F5	Motor sleeve set screws	Steel	
P1	Drain plug	Steel	316 stainless steel
P2	Vent connection	Steel	316 stainless steel
P3	Gauge plug	Steel	316 stainless steel

Typical cross section: Large GC pumps

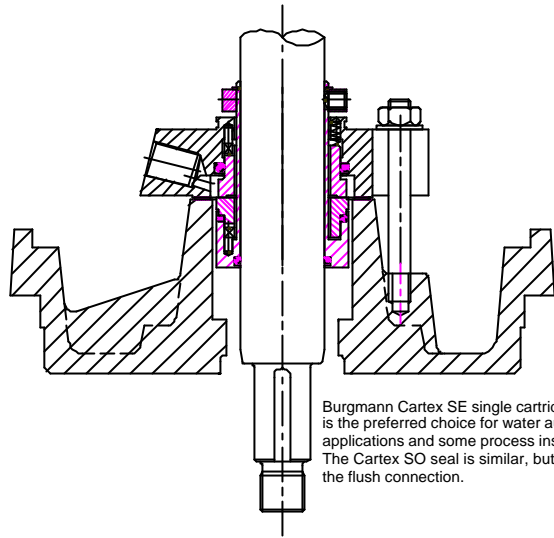


Ref	Item	Standard material	Alternative materials
01	Volute casing	Cast iron	Ductile iron, Bronze, 316 stainless steel
02	Impeller	Cast iron	Bronze, 316 stainless steel
03	Stubshaft	303 Stainless steel	316 stainless steel, Duplex stainless steel
04	Backcover	Cast iron	316 stainless steel
05	Adaptor	Cast iron	Ductile iron, Bronze, 316 stainless steel
07	Mechanical seal	Carbon/ceramic/Nitrile	Any commercial combination
08	Impeller nut	Steel	Bronze, 316 stainless steel
08.1	Impeller washer	Steel	Bronze, 316 stainless steel
09	Glandplate	303 Stainless steel	316 stainless steel
10	Casing O ring	Nitrile	Viton
10.1	Glandplate O ring	Nitrile	Viton
12	Casing wear ring	Cast iron	Bronze, 316 stainless steel
13	Impeller key	Key steel	316 stainless steel
14	Guard	Steel	
33	Motor sleeve	Steel	
F1	Casing bolt	Steel	316 stainless steel
F2	Backcover bolt	Steel	316 stainless steel
F3	Glandplate stud and nut	Steel	316 stainless steel
F4	Stubshaft socket cap screw	Steel	
F5	Motor sleeve socket set screw	Steel	
F6	Motor bolt	Steel	
P1	Drain plug	Steel	316 stainless steel
P2	Glandplate vent connection	Steel	316 stainless steel
P3	Gauge plug	Steel	316 stainless steel

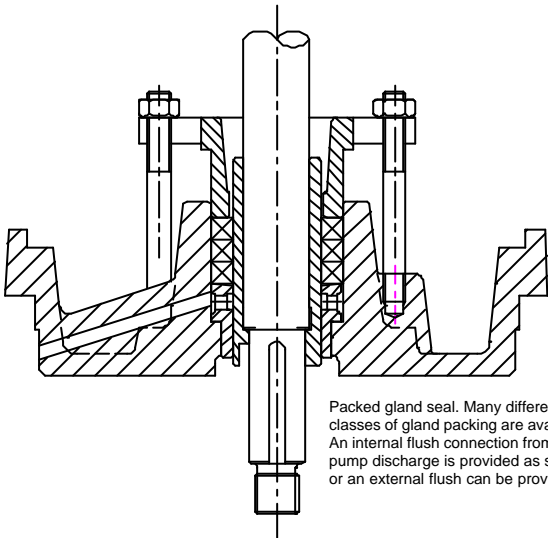
Examples of alternative sealing arrangements



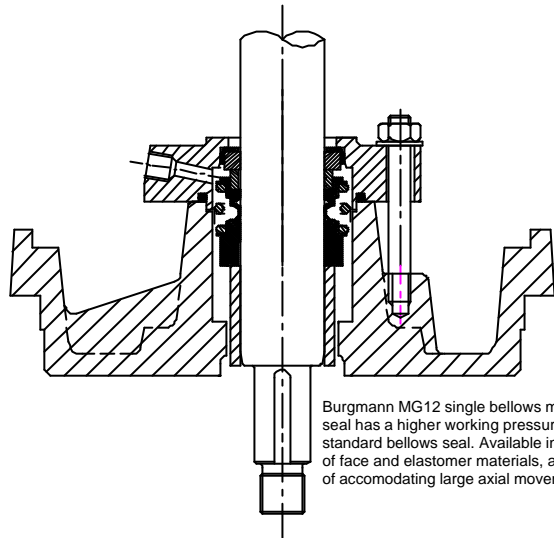
Single bellows seal with secondary lip seal and quench connections. Use when crystalline solids may build up on the outside of the seal, or when leakage of hazardous liquids needs to be piped to a safe area.



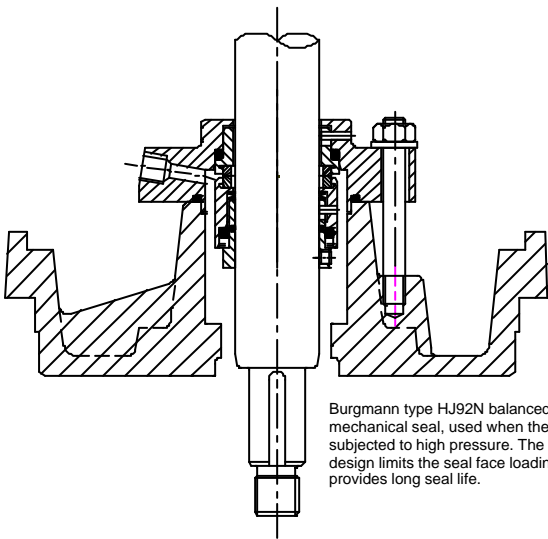
Burgmann Cartex SE single cartridge seal is the preferred choice for water authority applications and some process installations. The Cartex SO seal is similar, but without the flush connection.



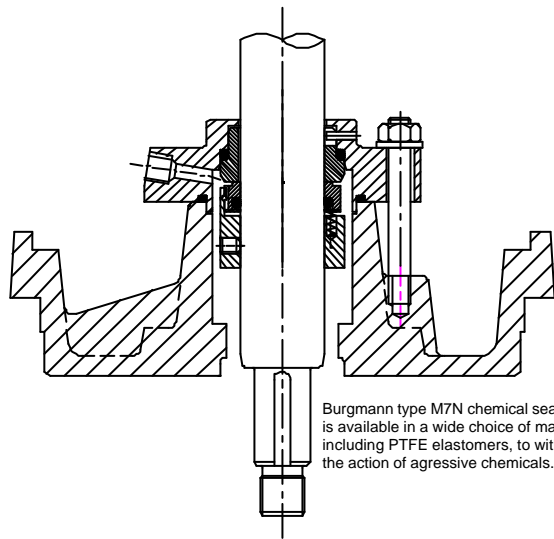
Packed gland seal. Many different classes of gland packing are available. An internal flush connection from the pump discharge is provided as standard, or an external flush can be provided.



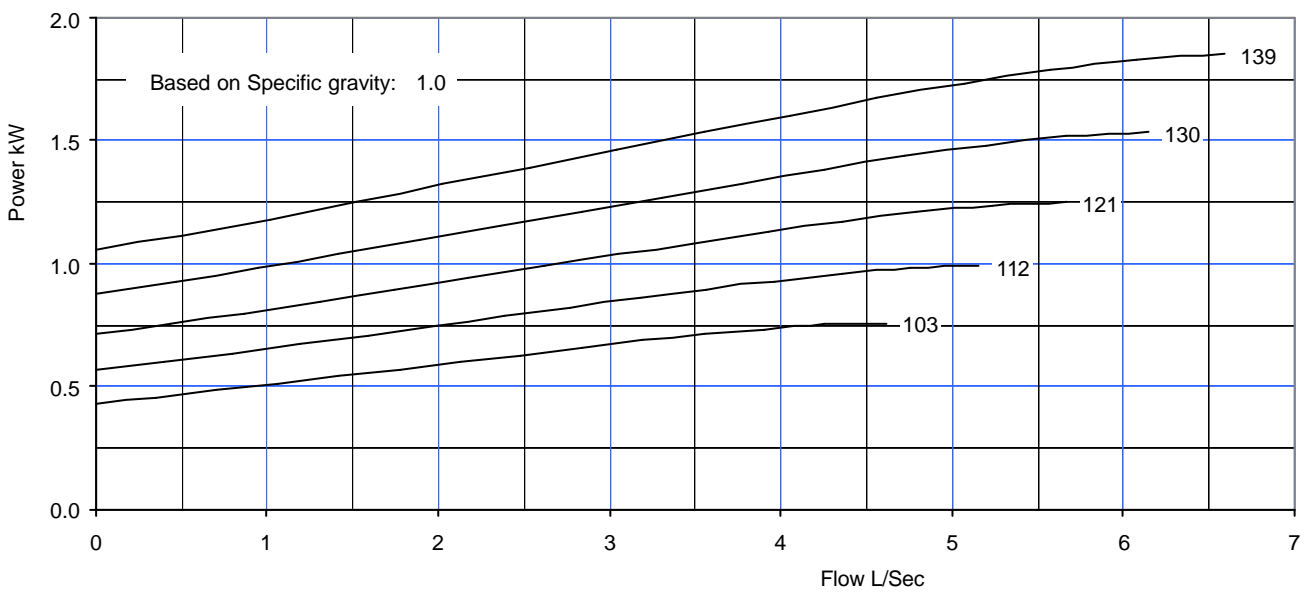
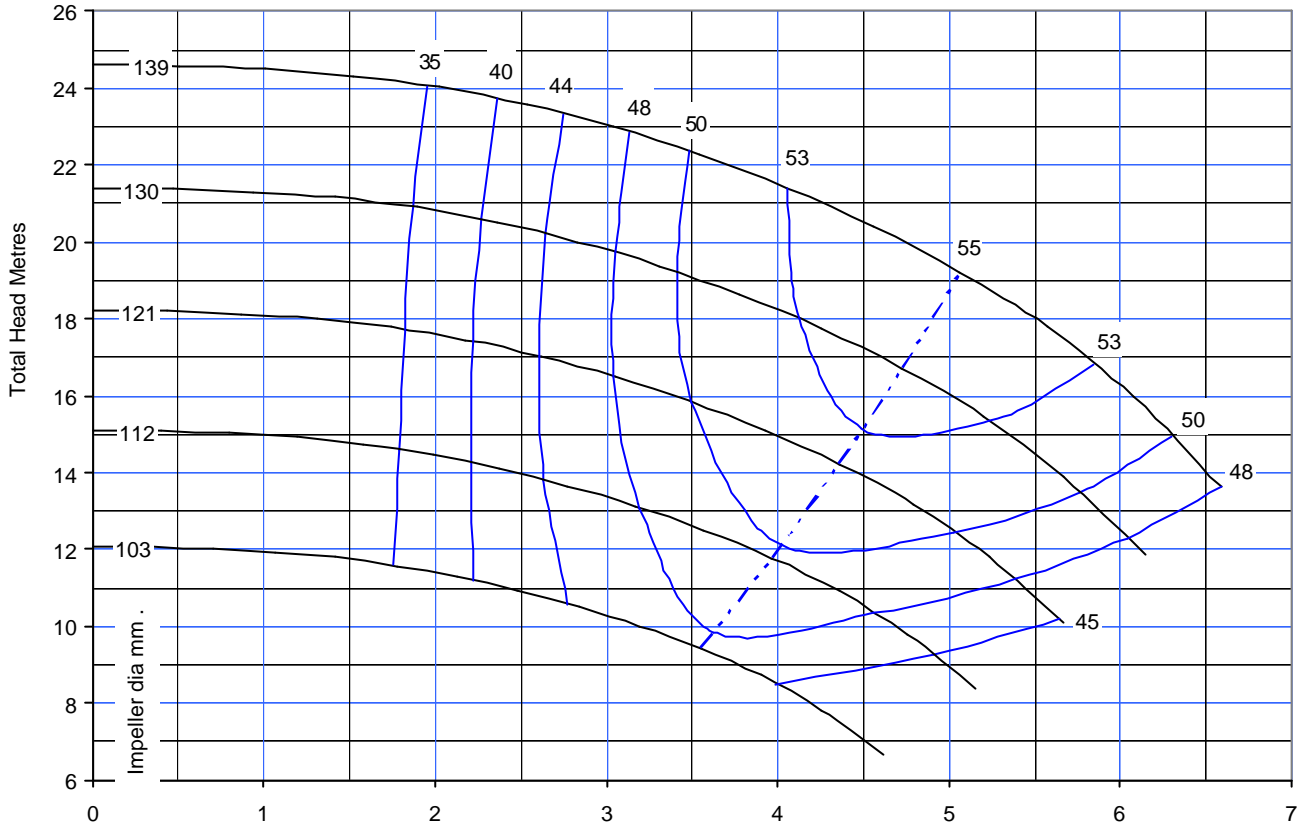
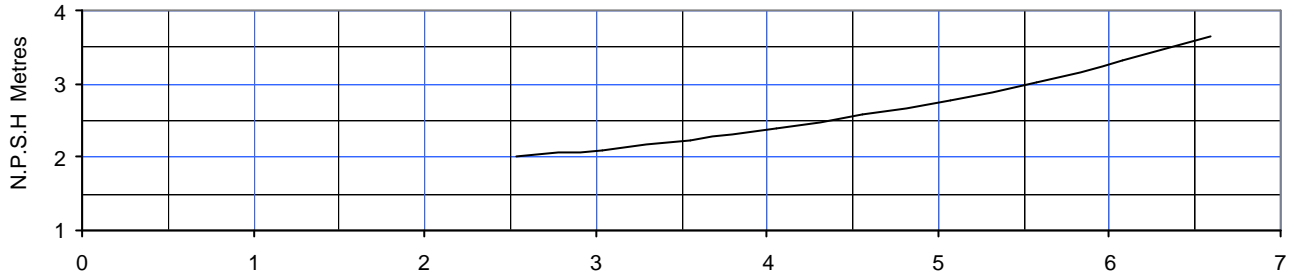
Burgmann MG12 single bellows mechanical seal has a higher working pressure than the standard bellows seal. Available in a range of face and elastomer materials, and capable of accommodating large axial movement.



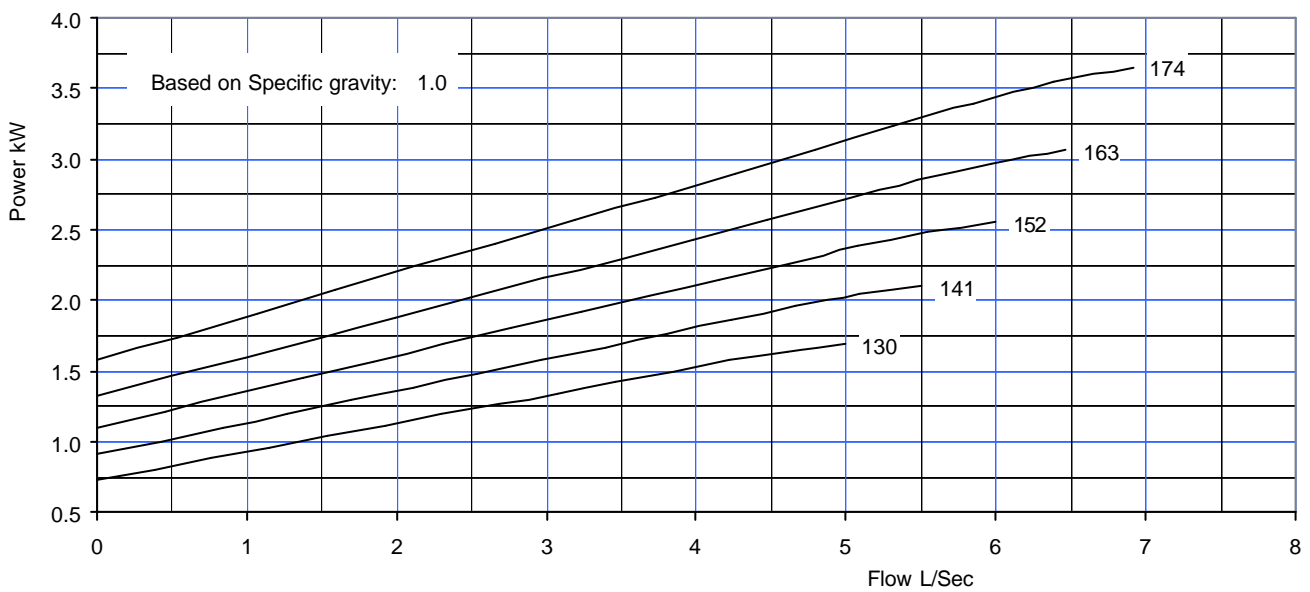
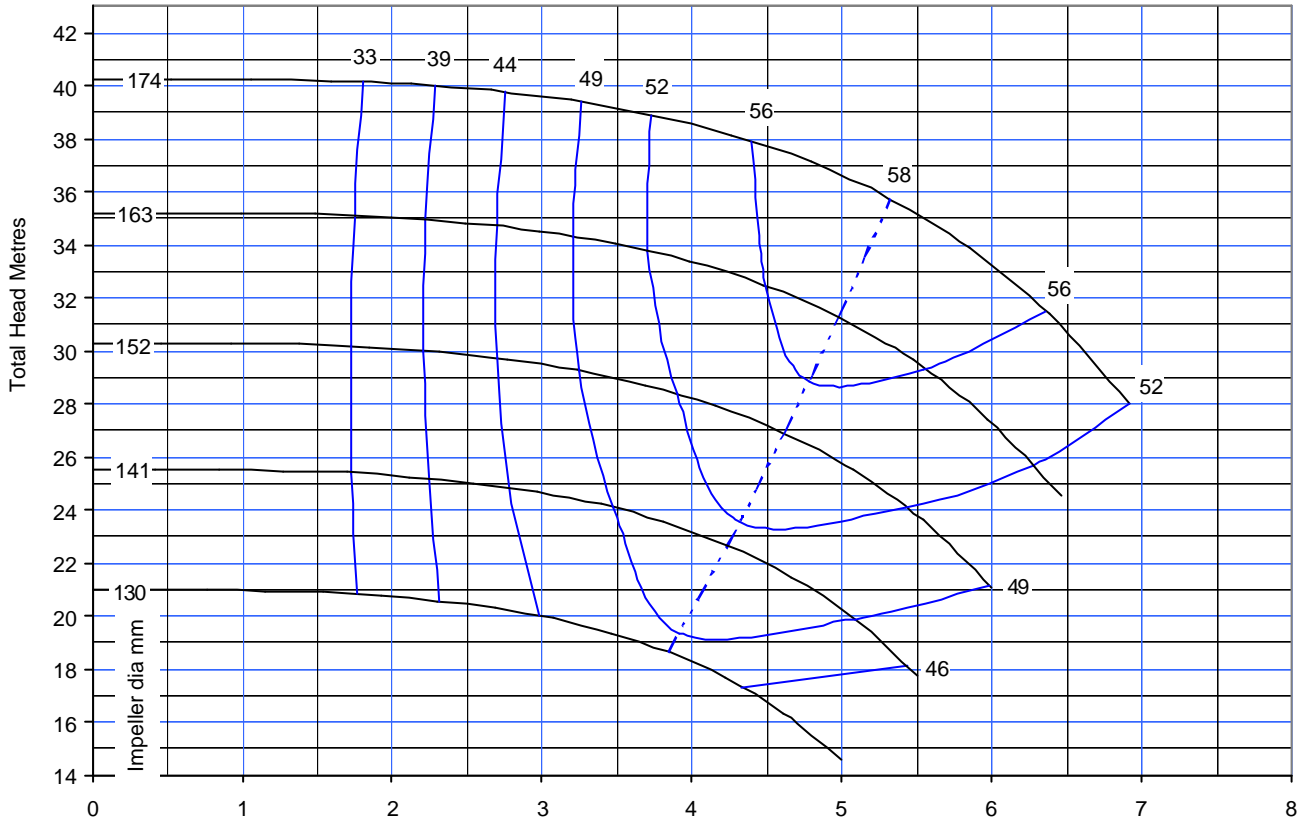
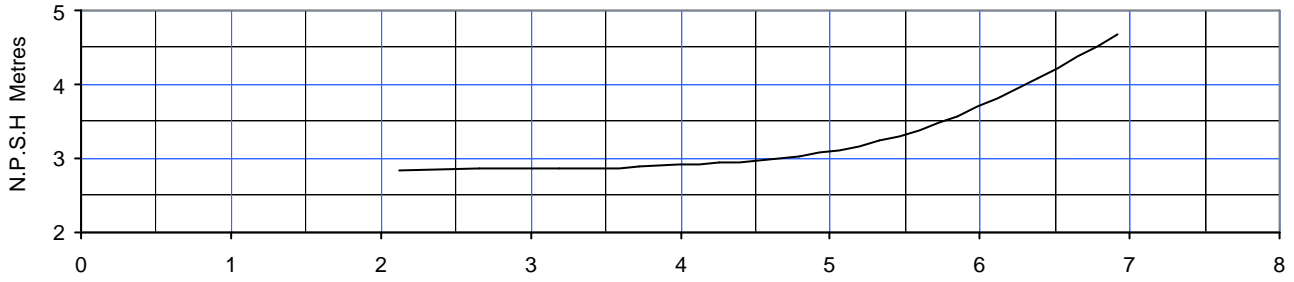
Burgmann type HJ92N balanced mechanical seal, used when the seal is subjected to high pressure. The balanced design limits the seal face loading and provides long seal life.



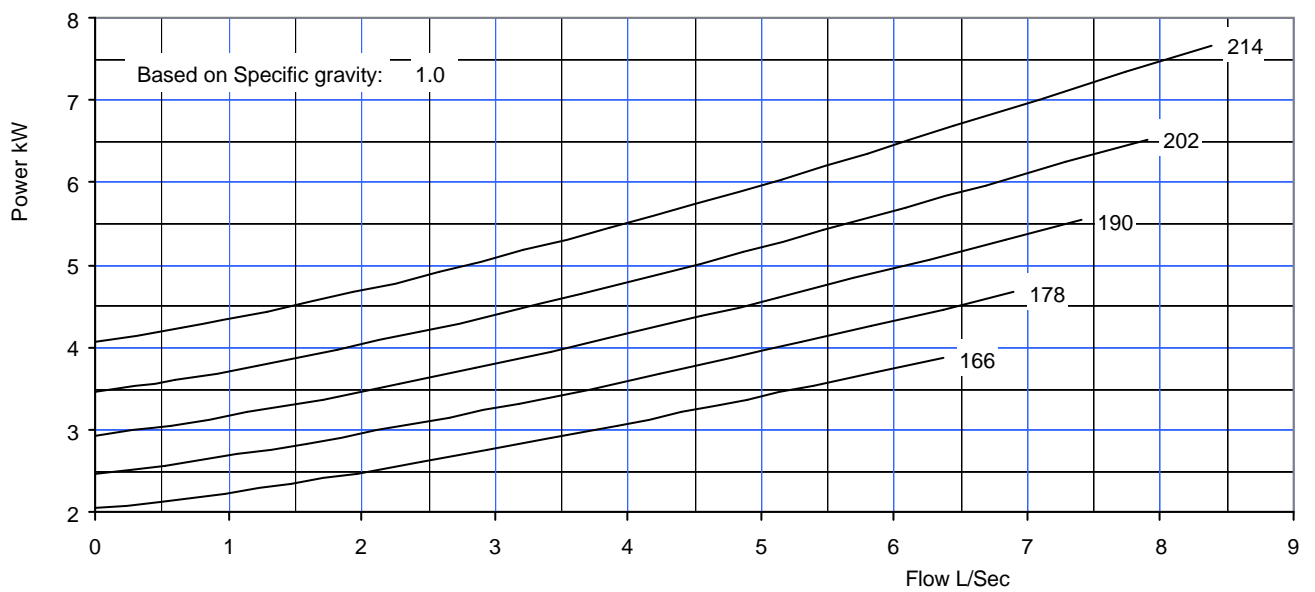
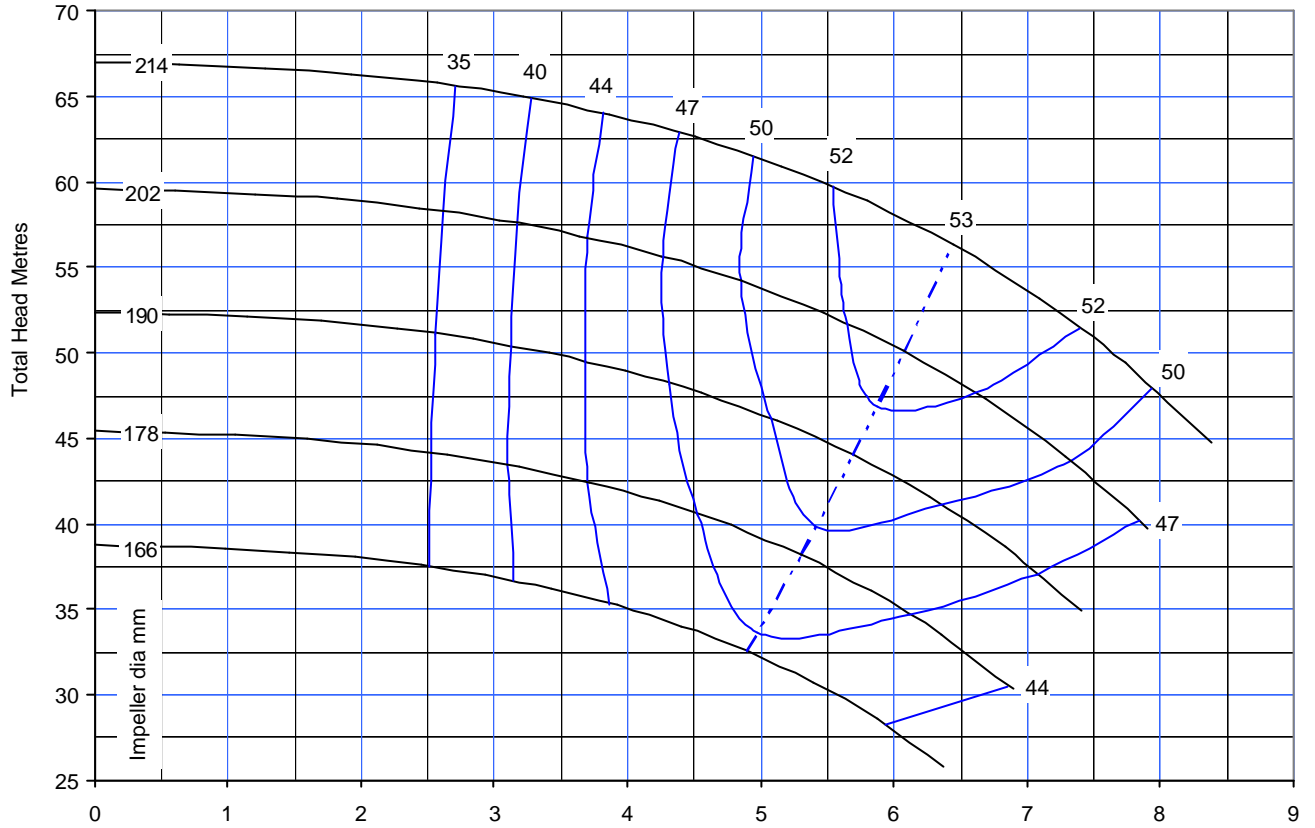
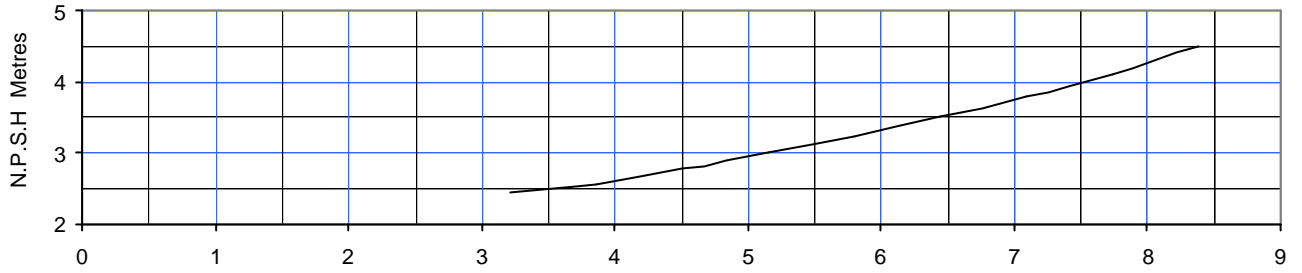
Burgmann type M7N chemical seal is available in a wide choice of materials including PTFE elastomers, to withstand the action of aggressive chemicals.



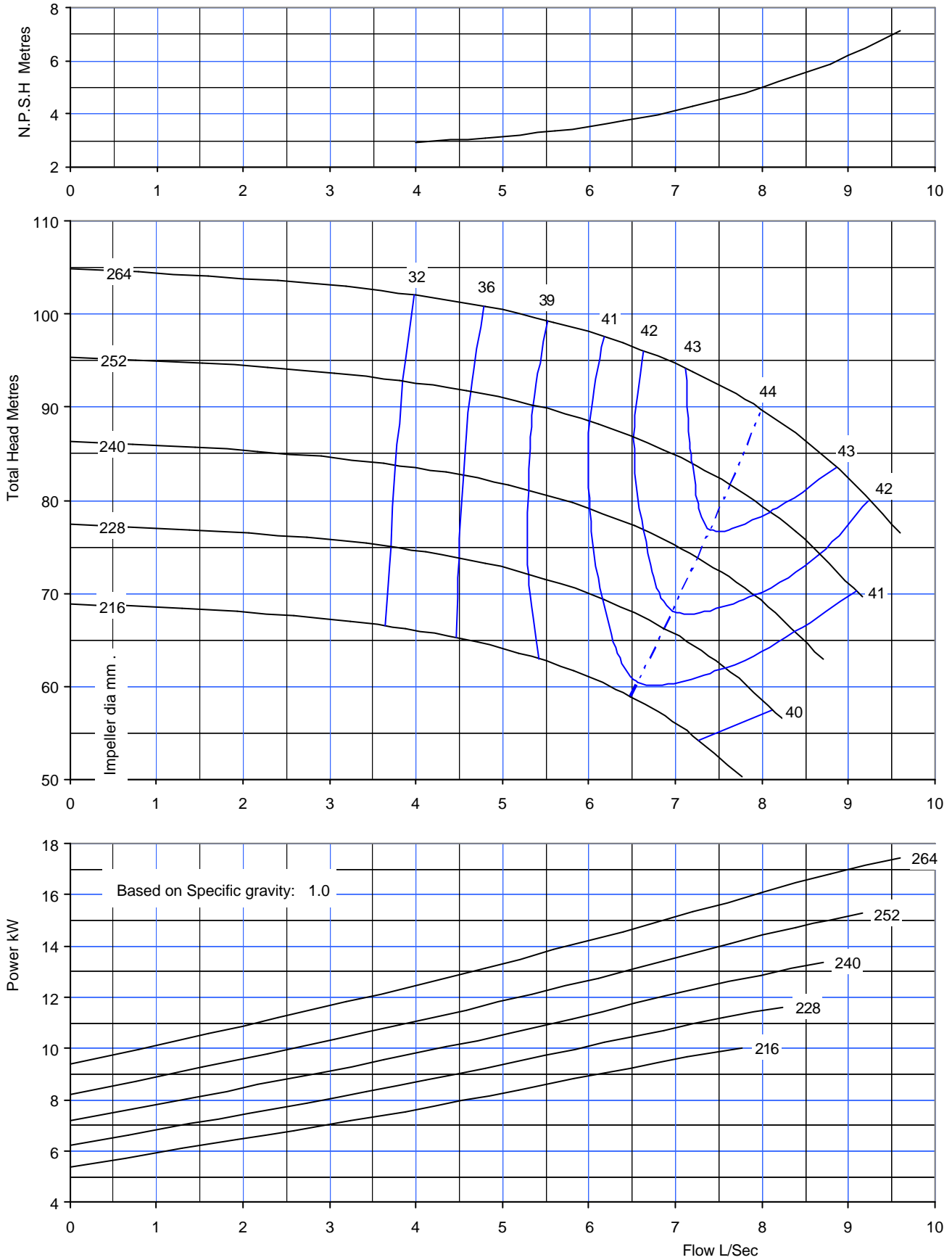
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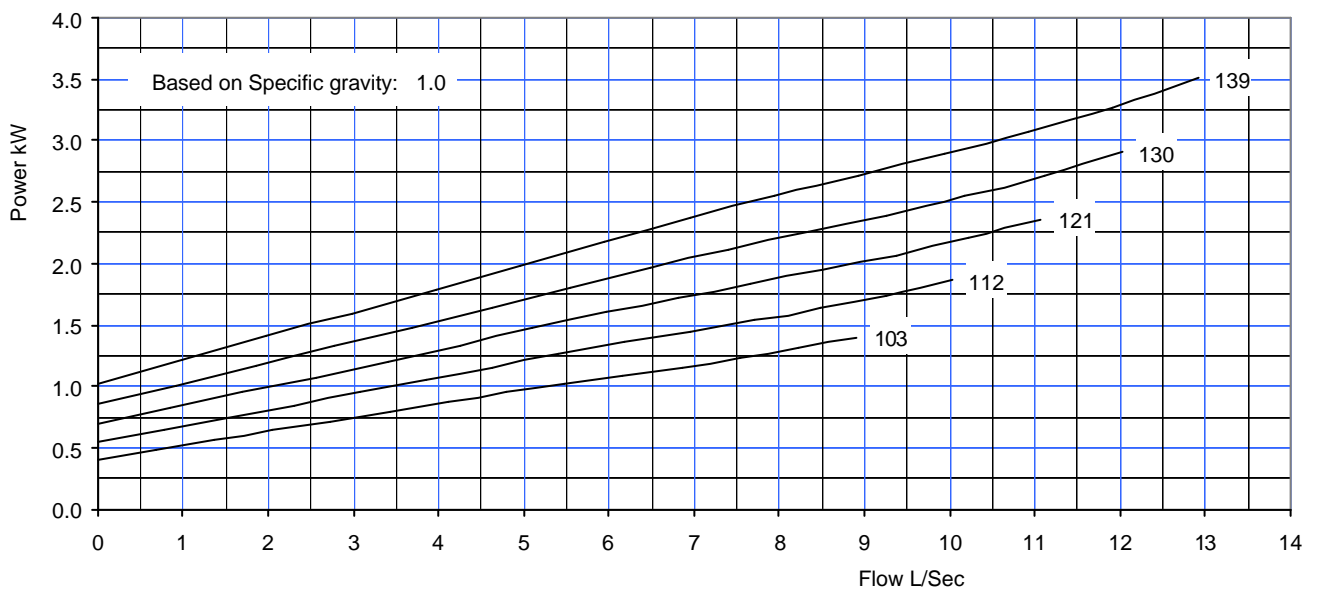
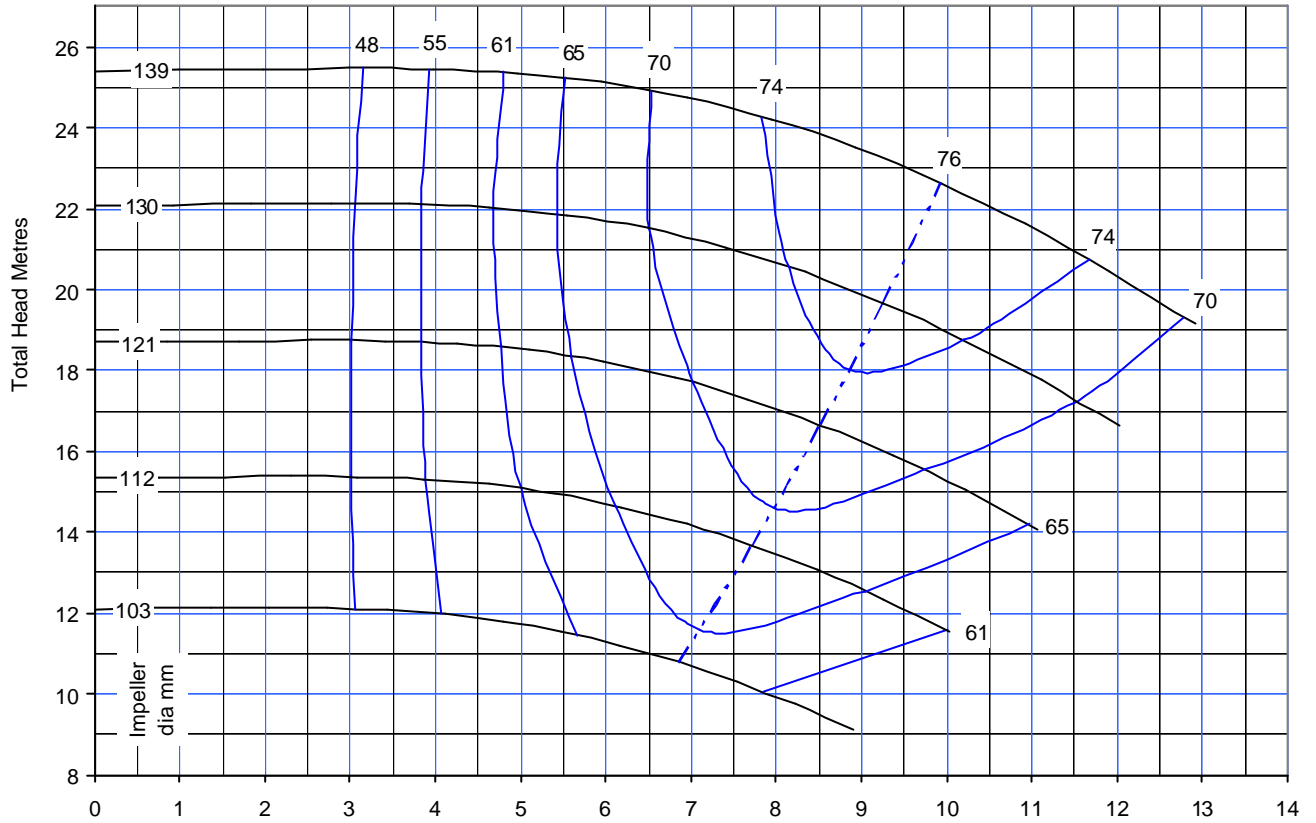
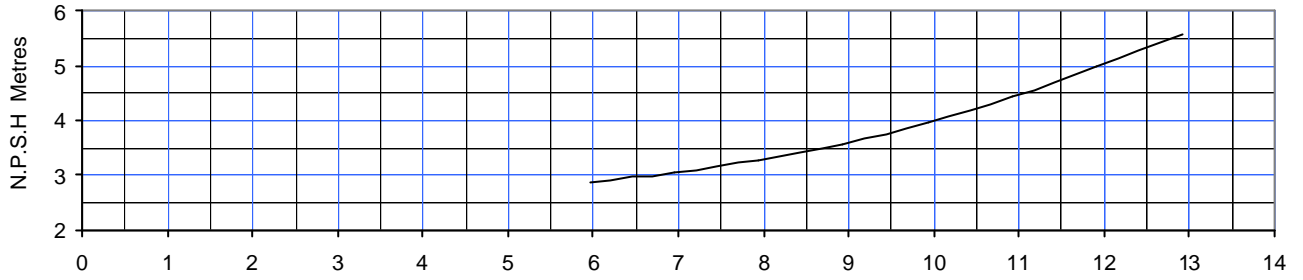
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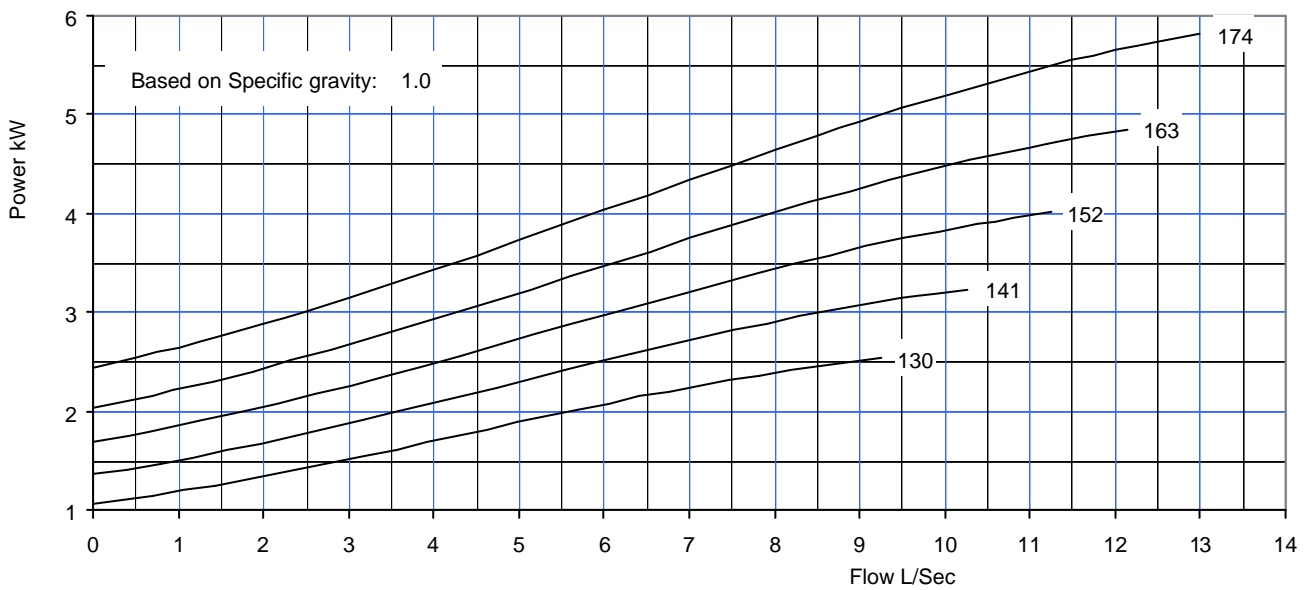
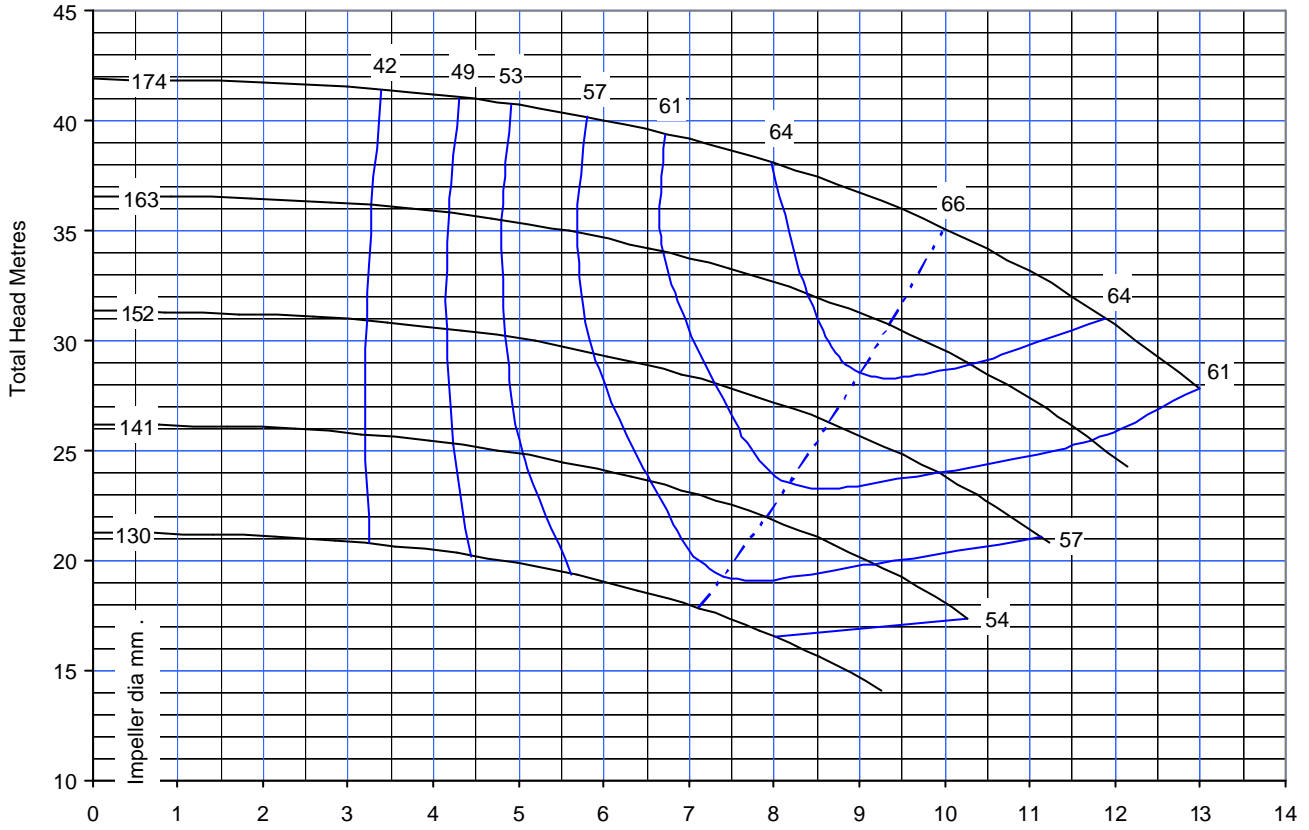
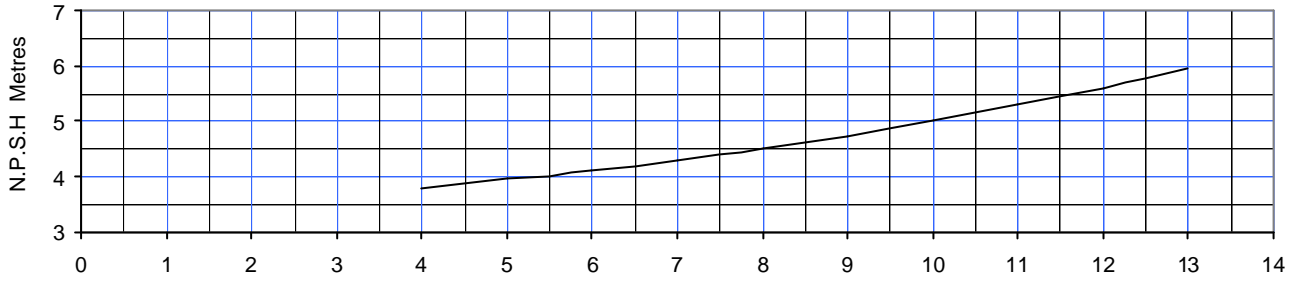
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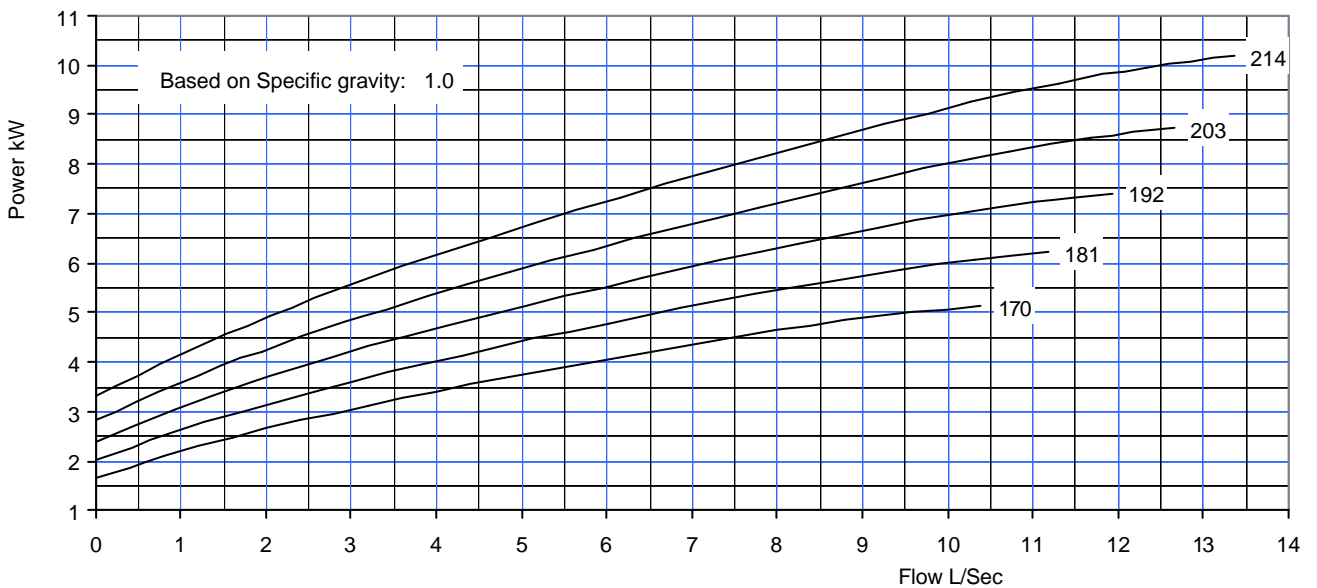
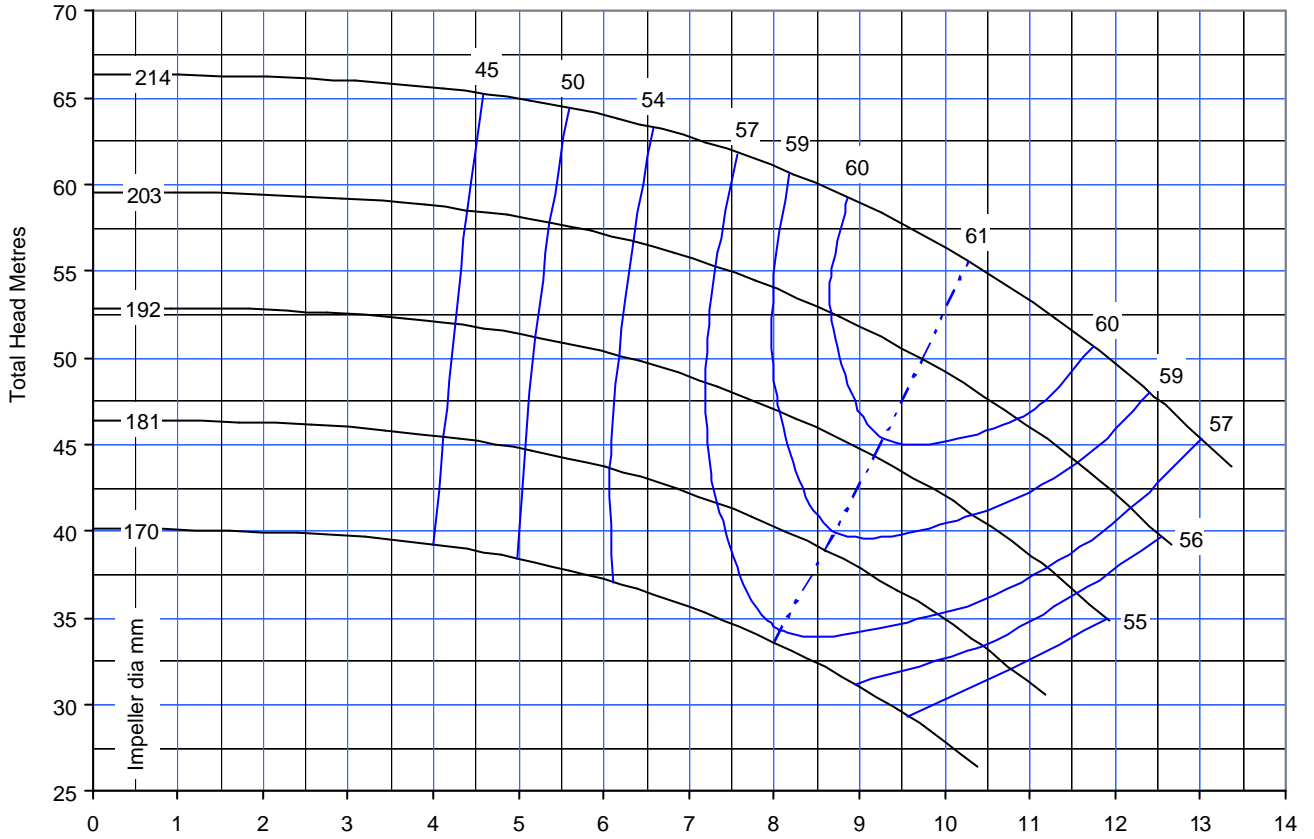
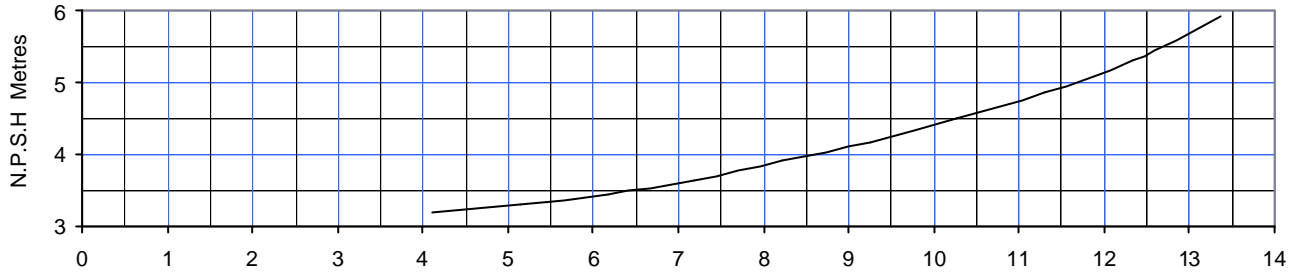
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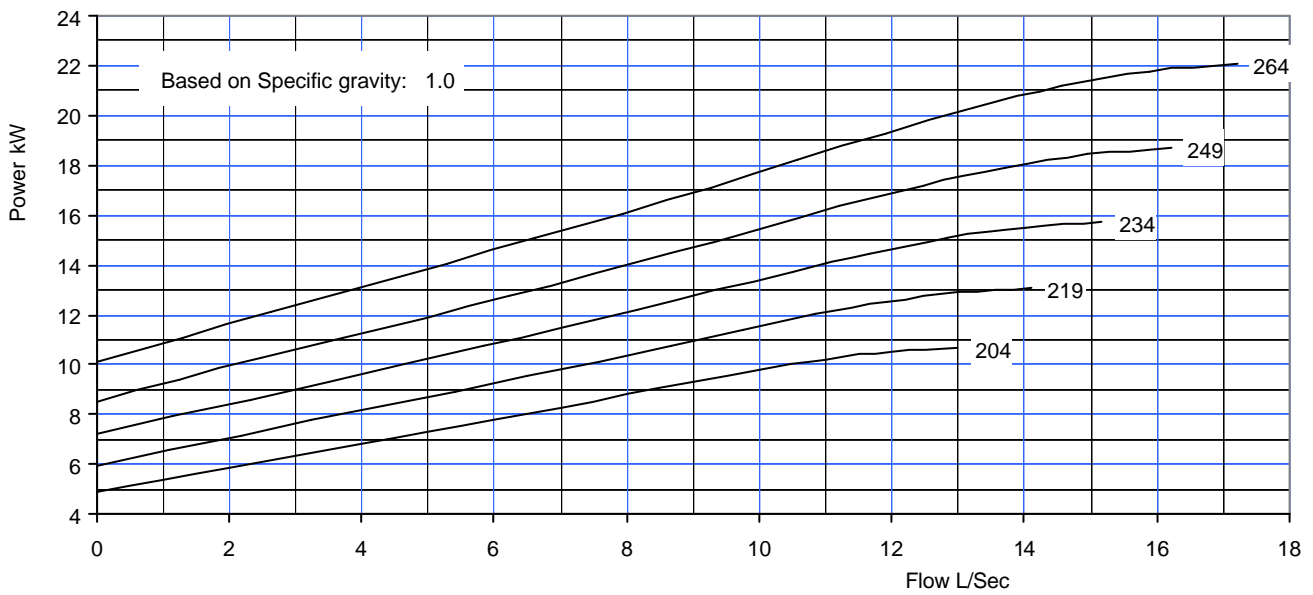
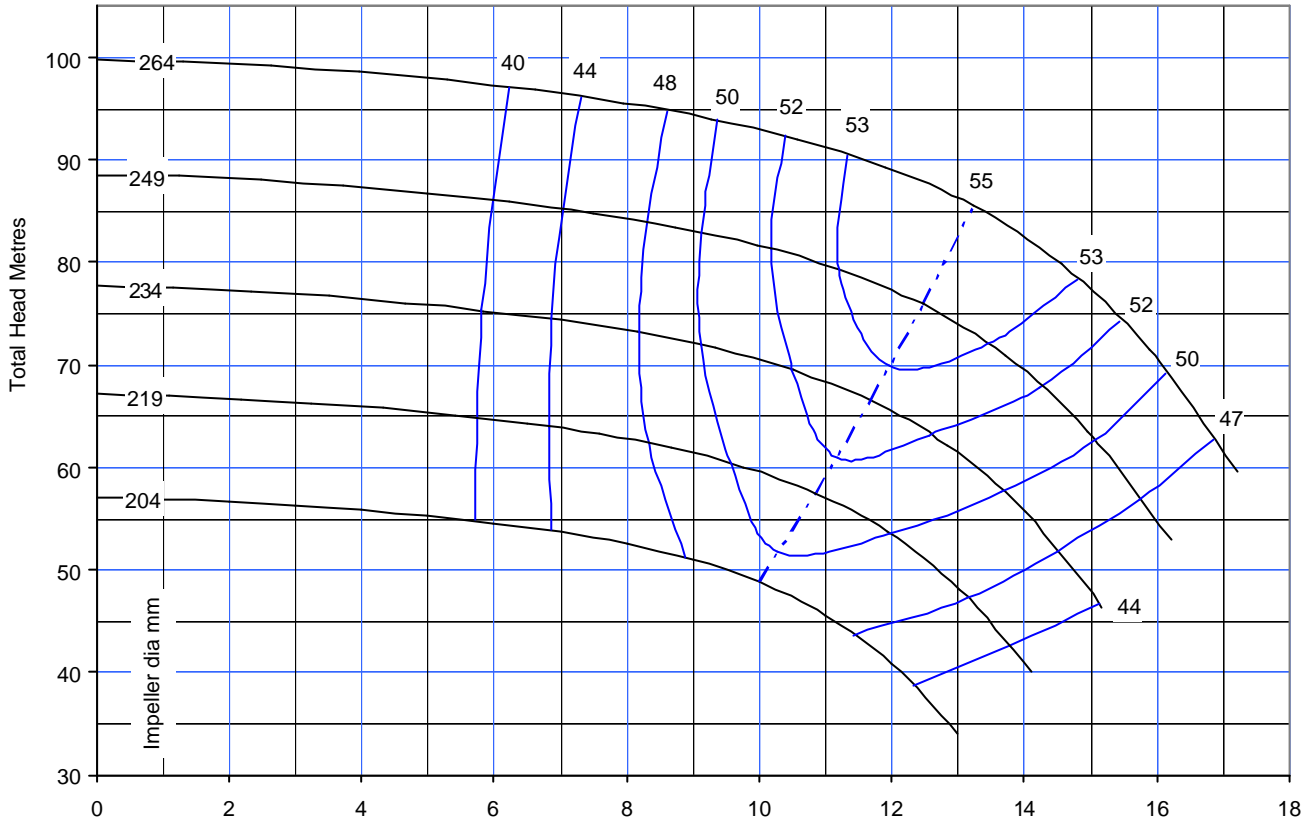
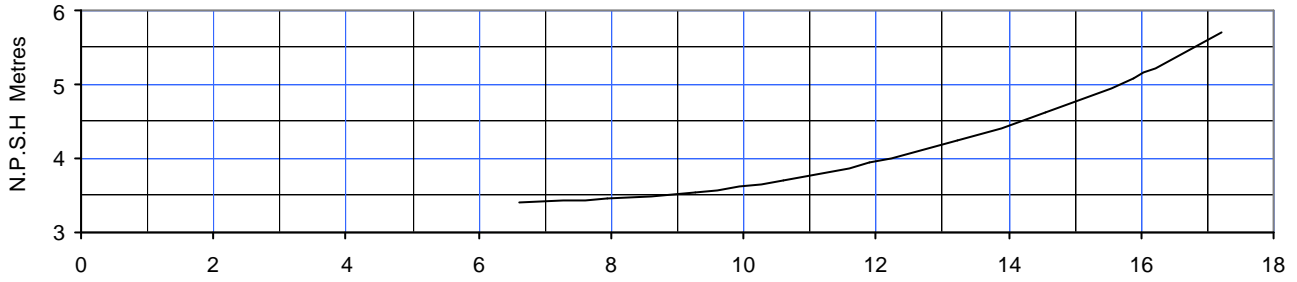
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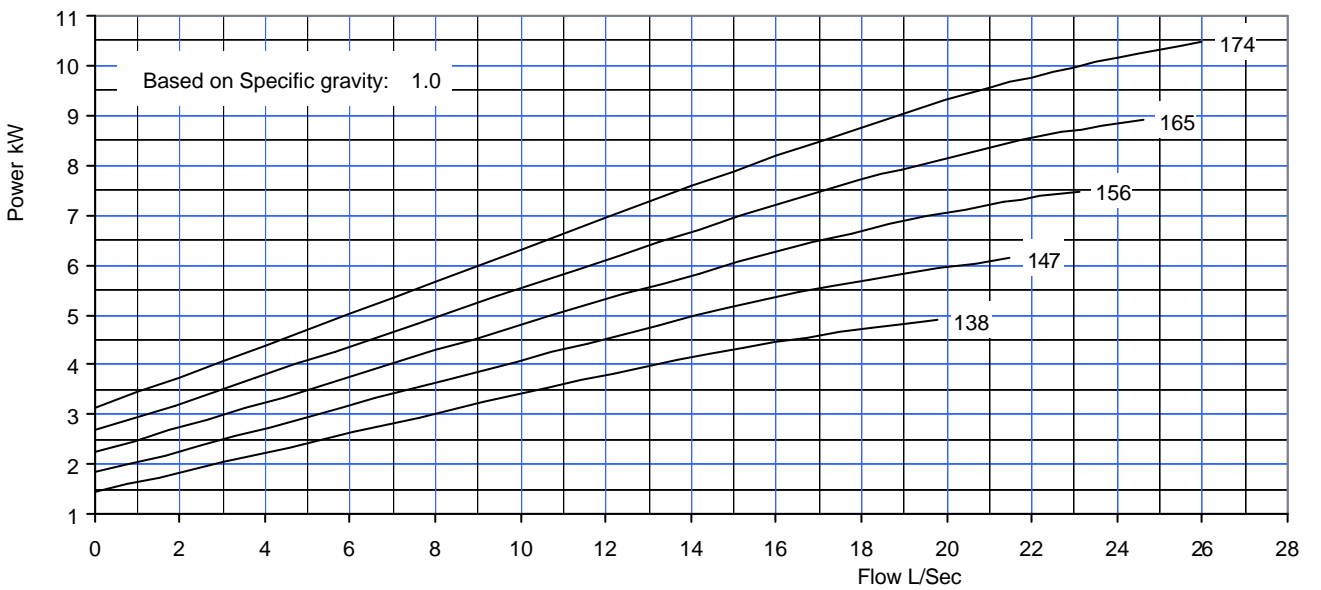
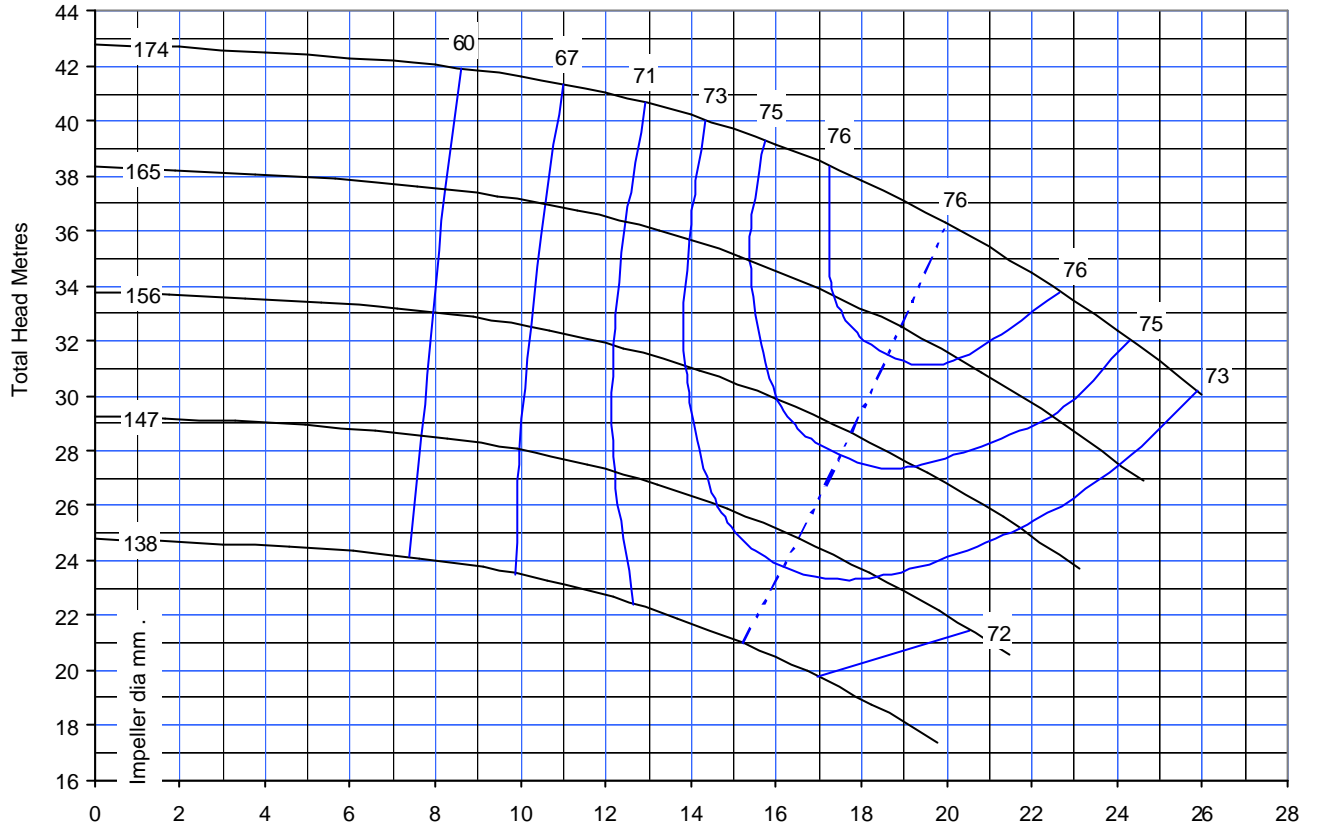
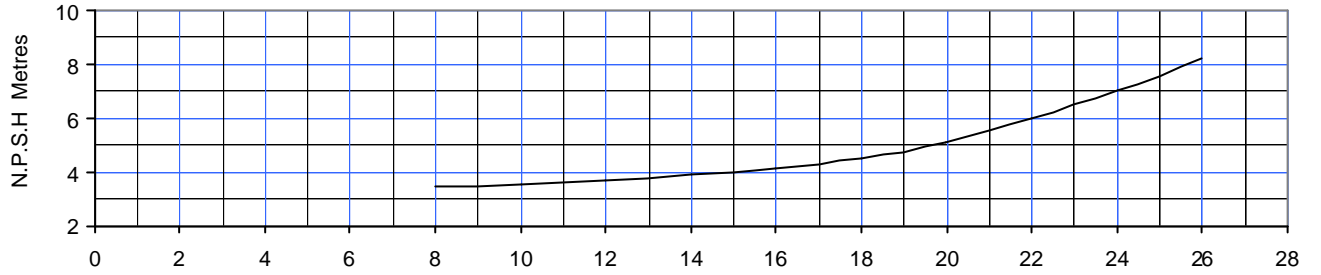
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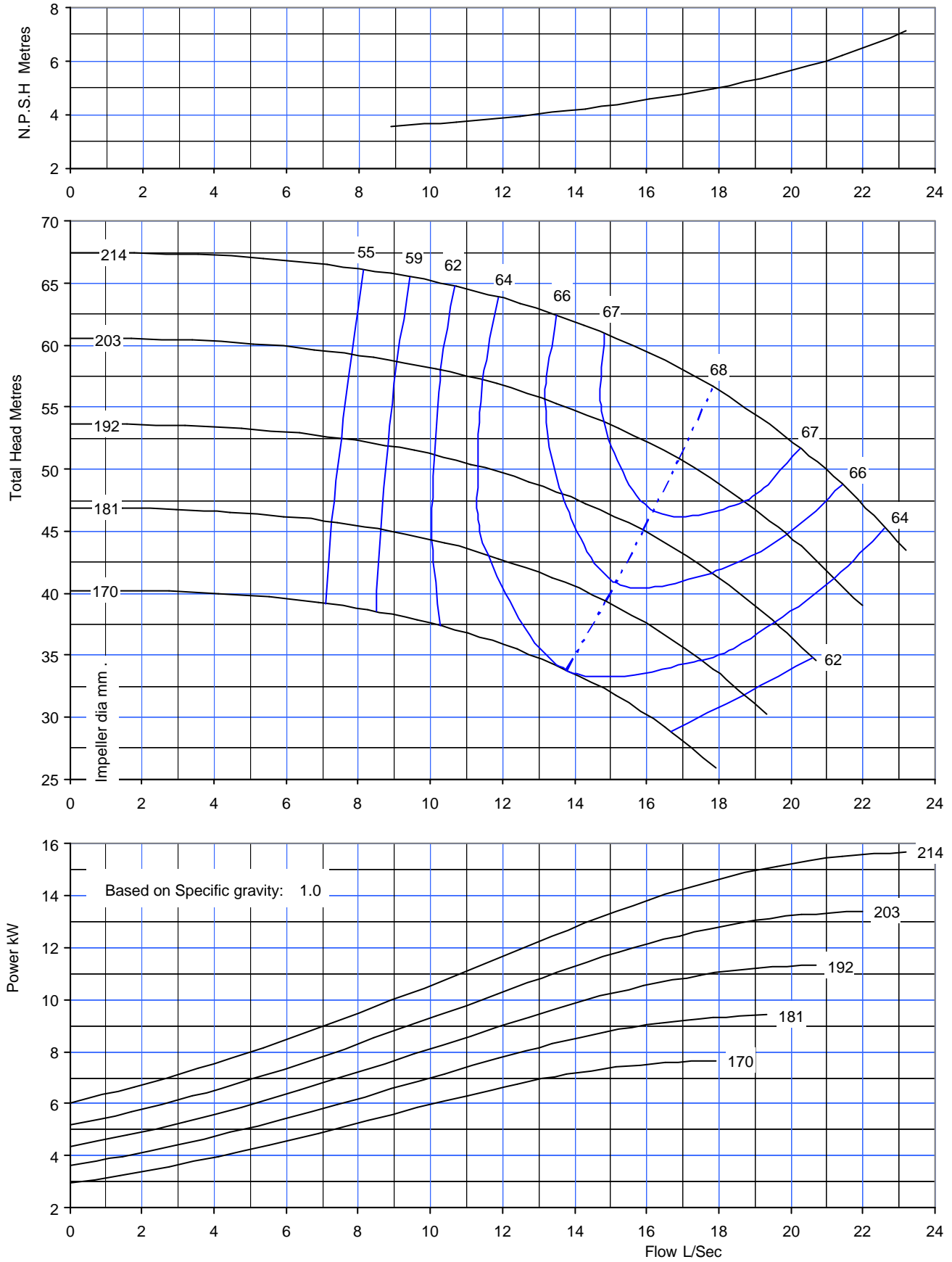
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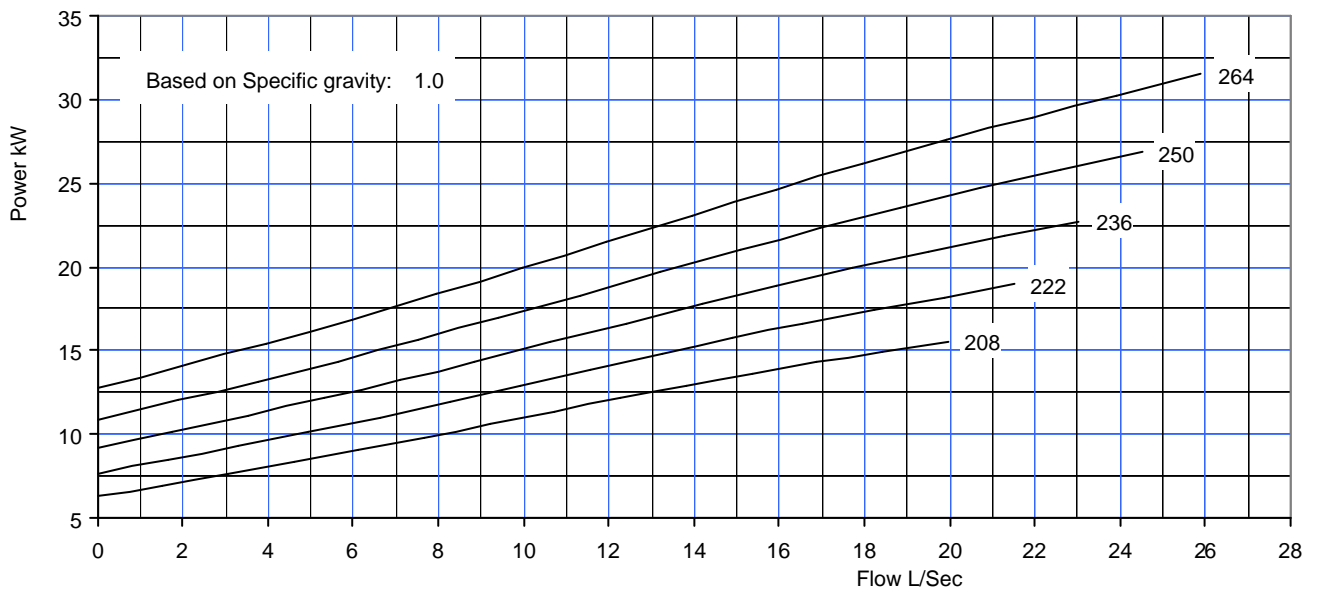
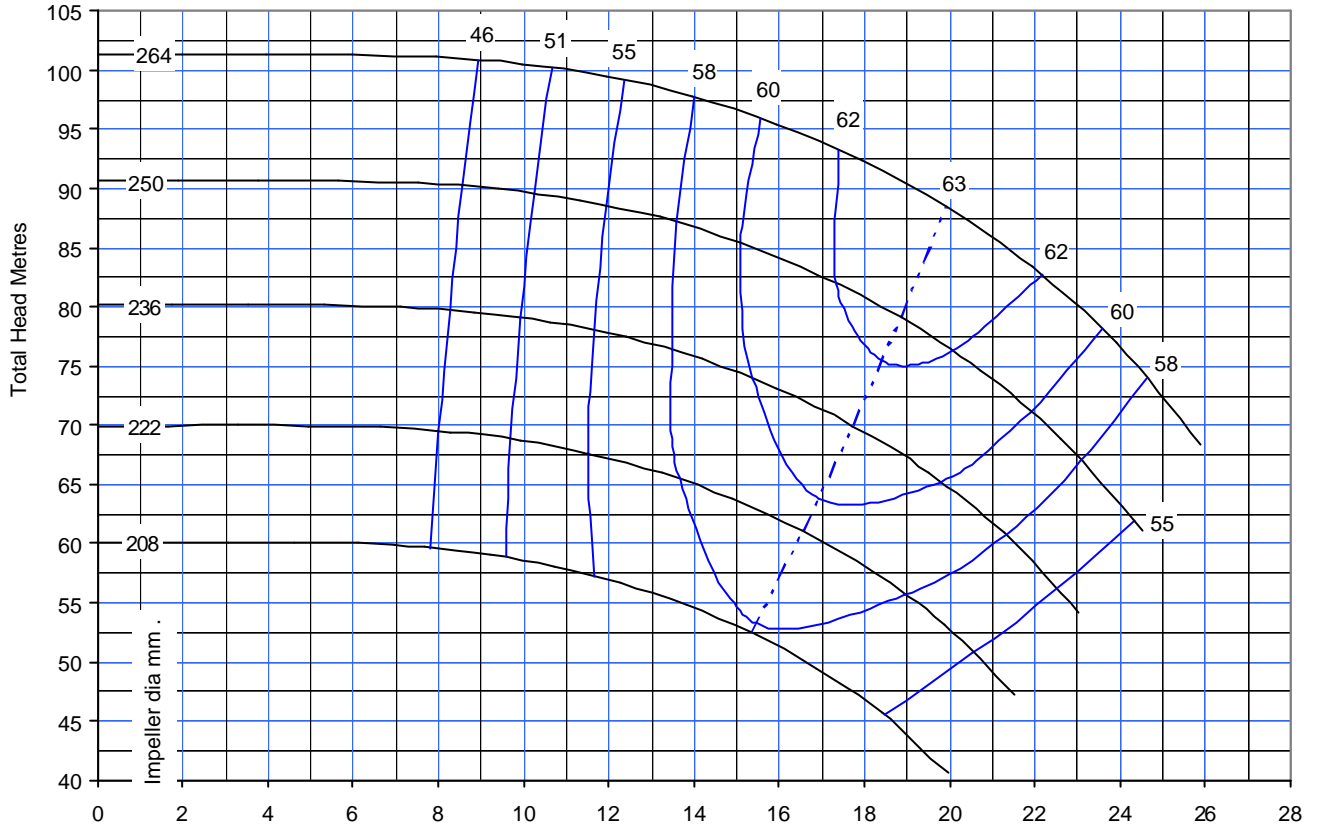
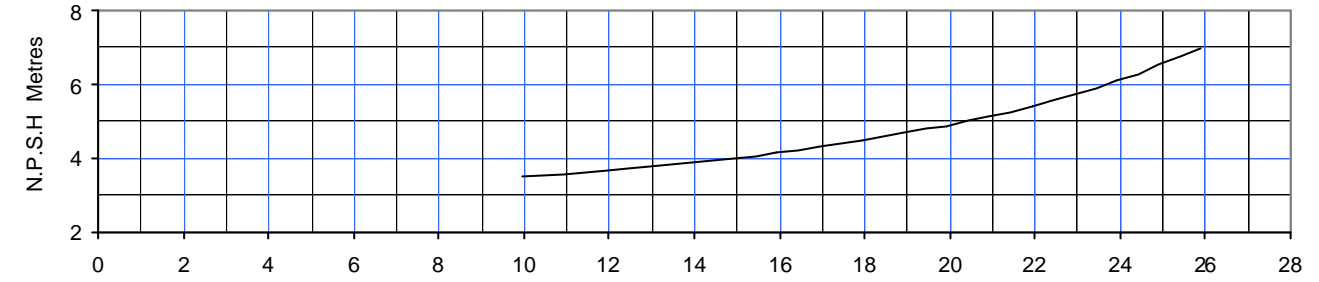
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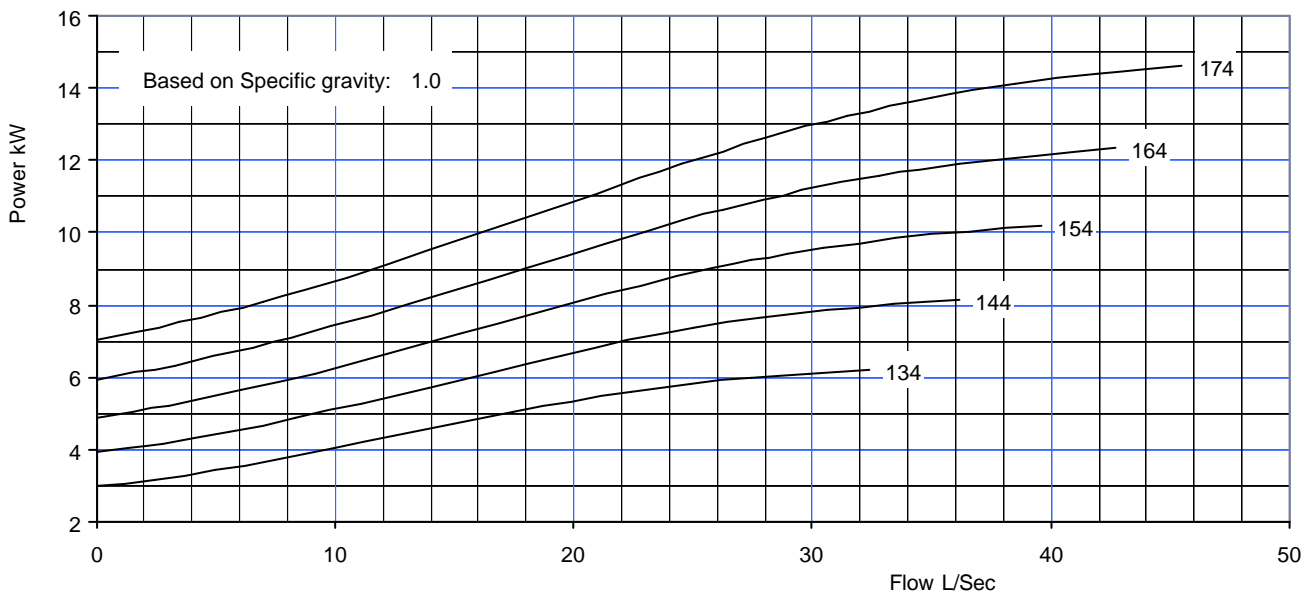
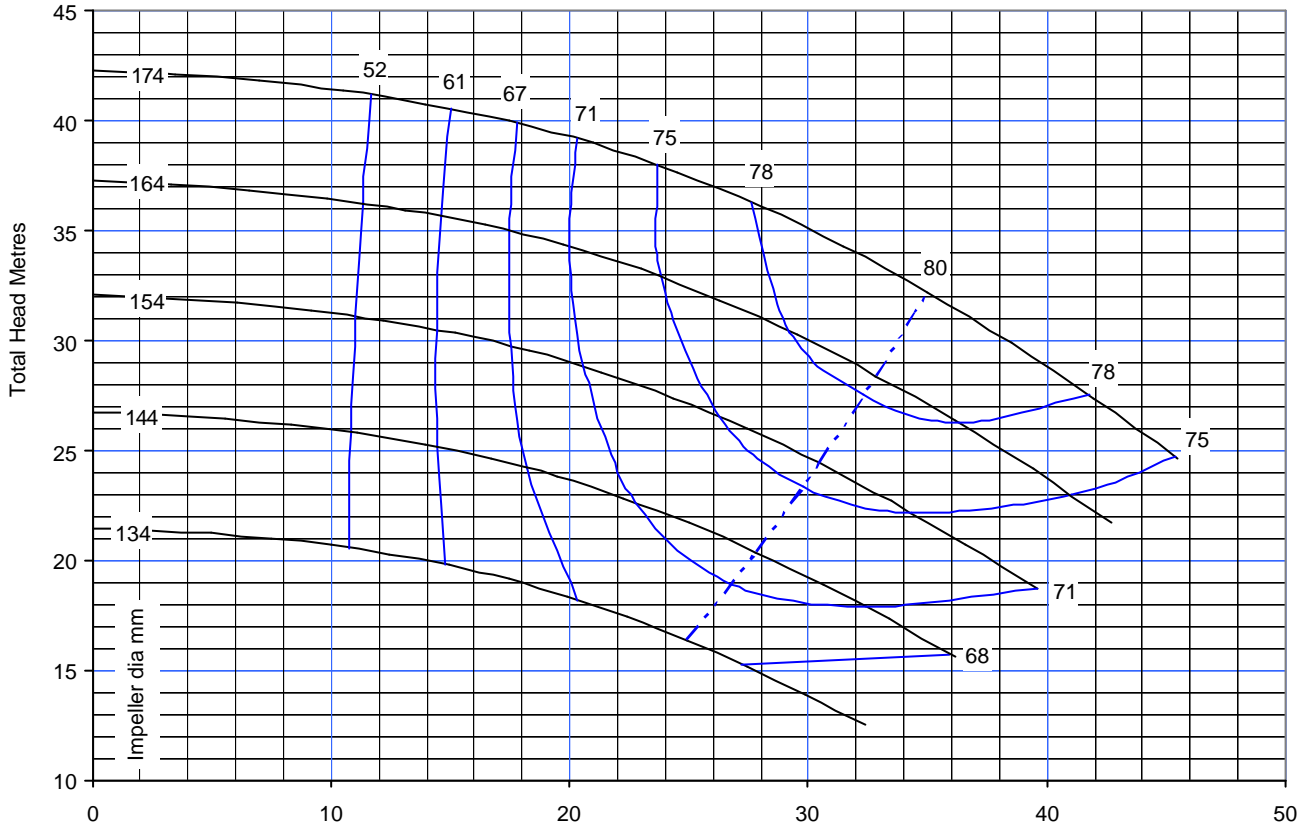
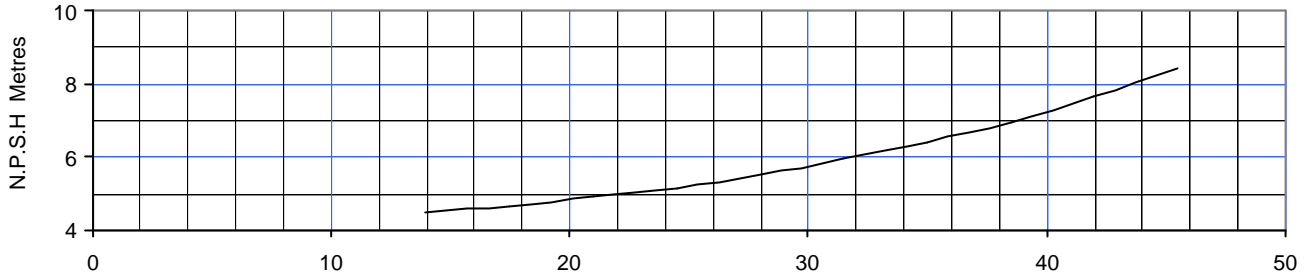
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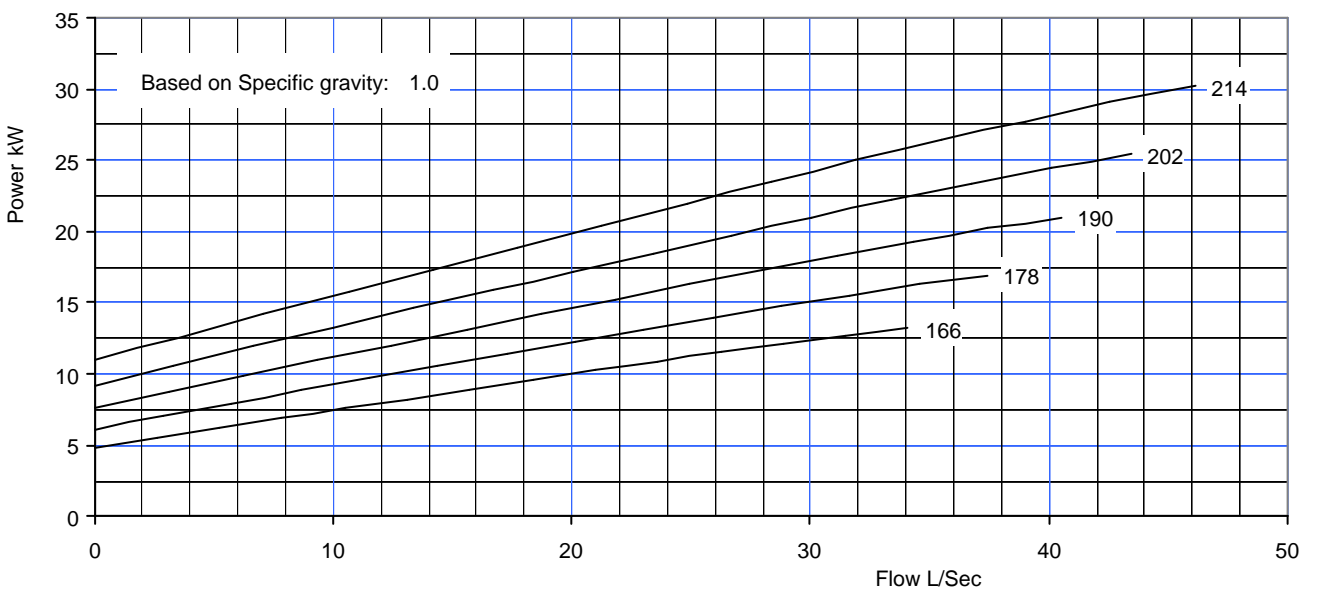
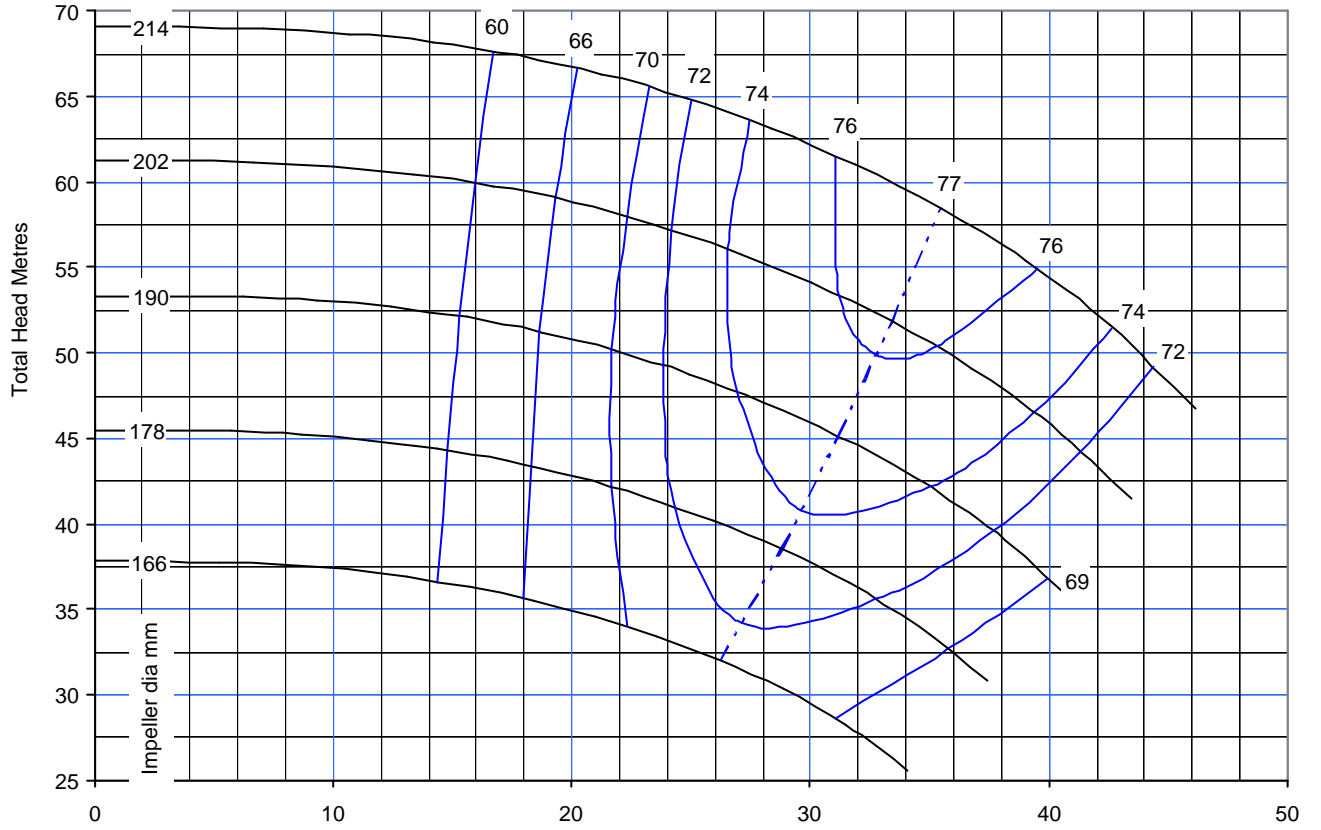
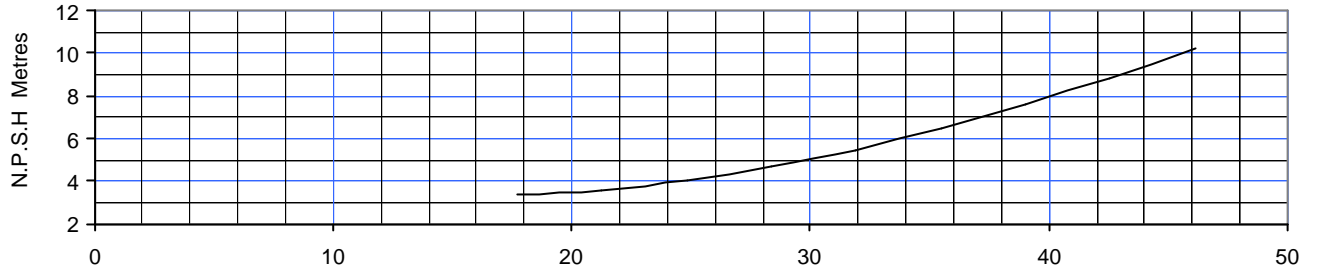
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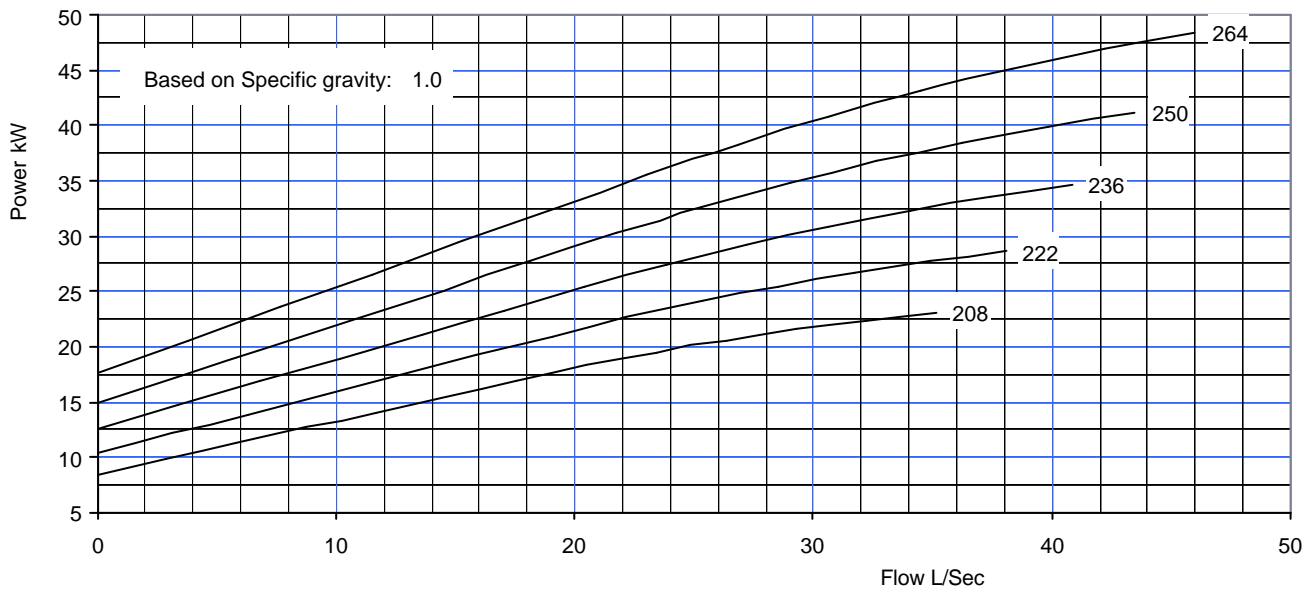
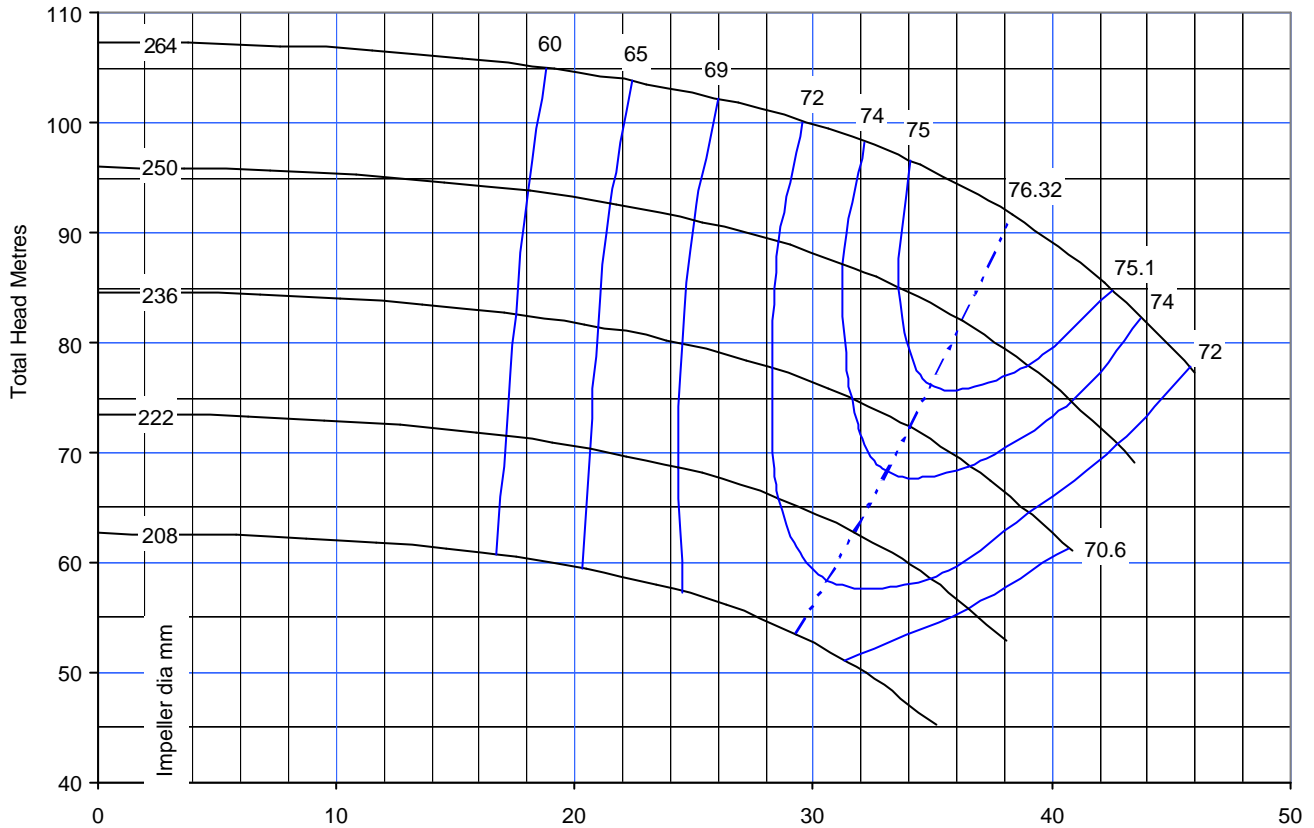
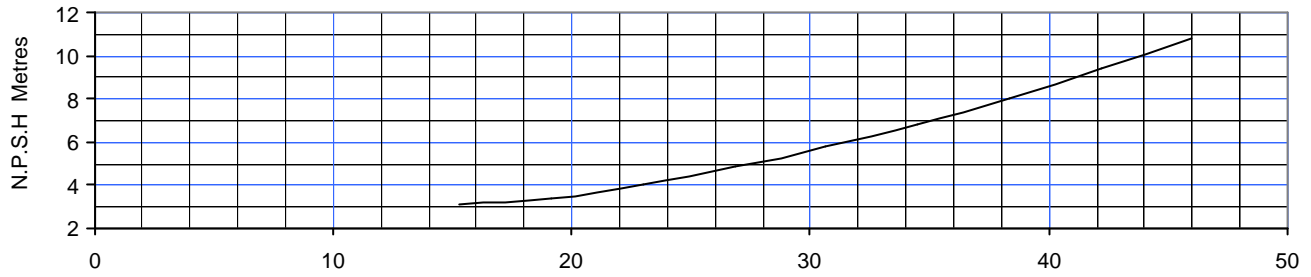
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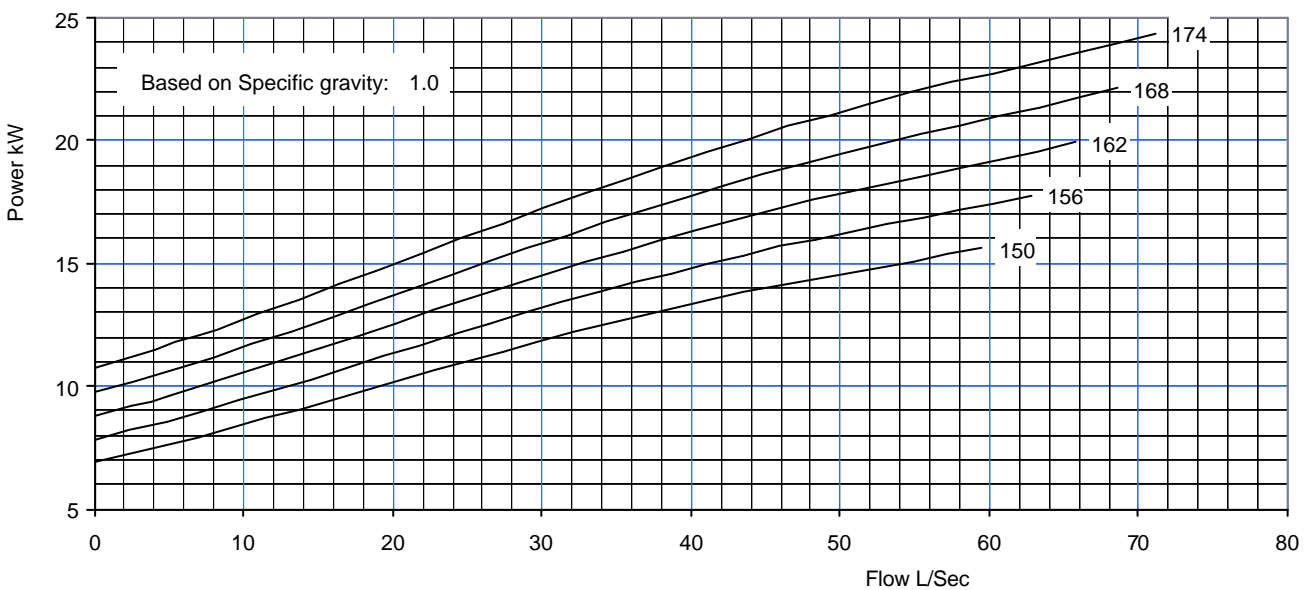
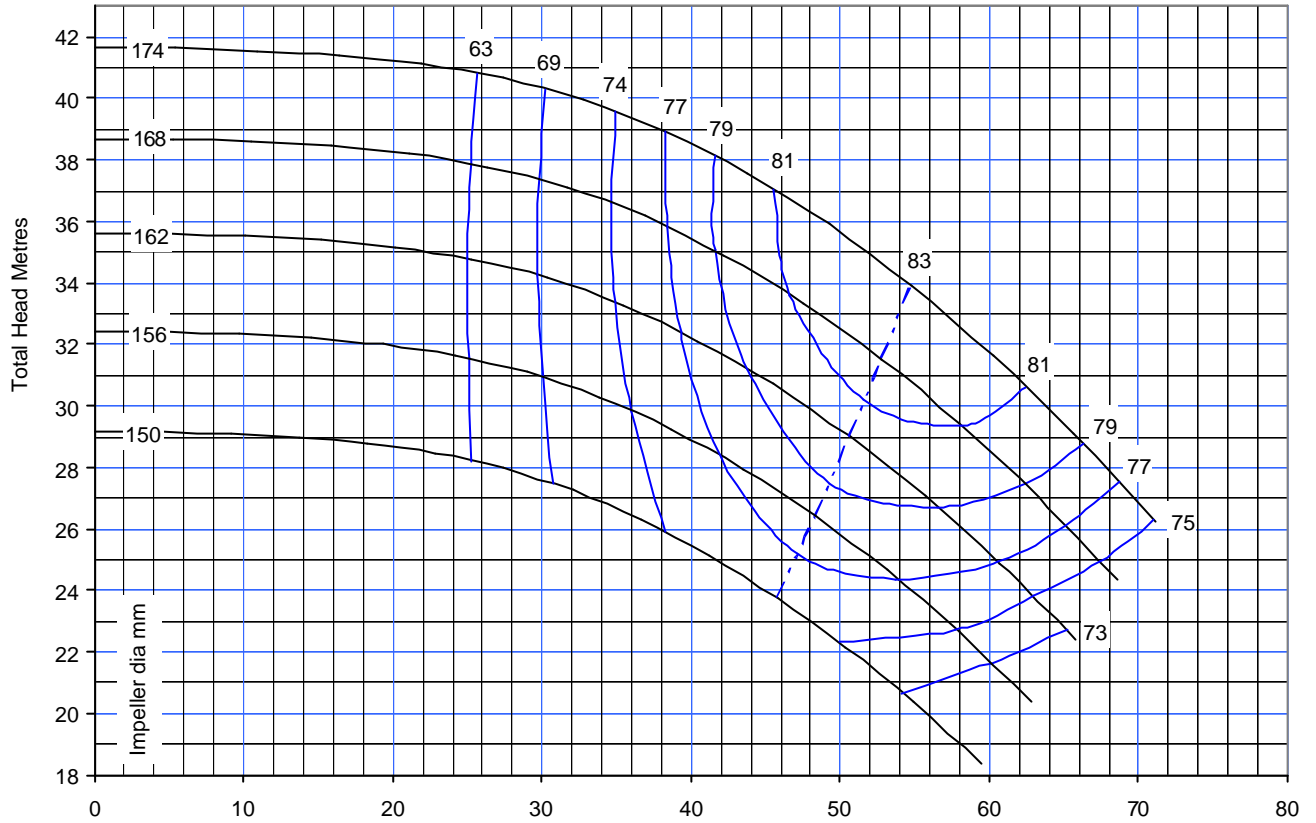
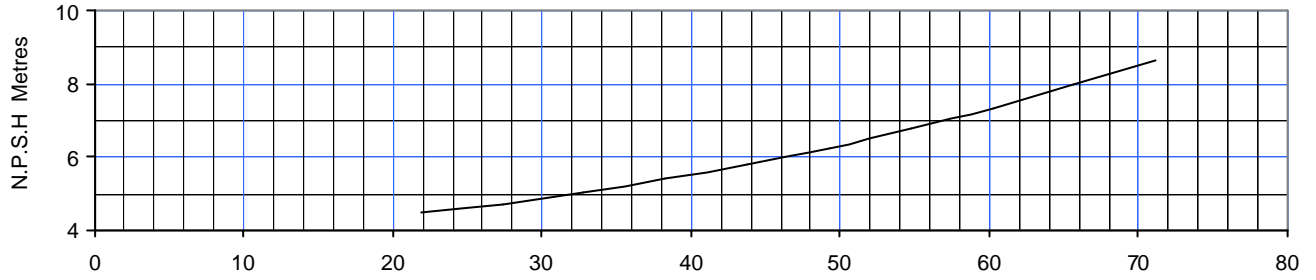
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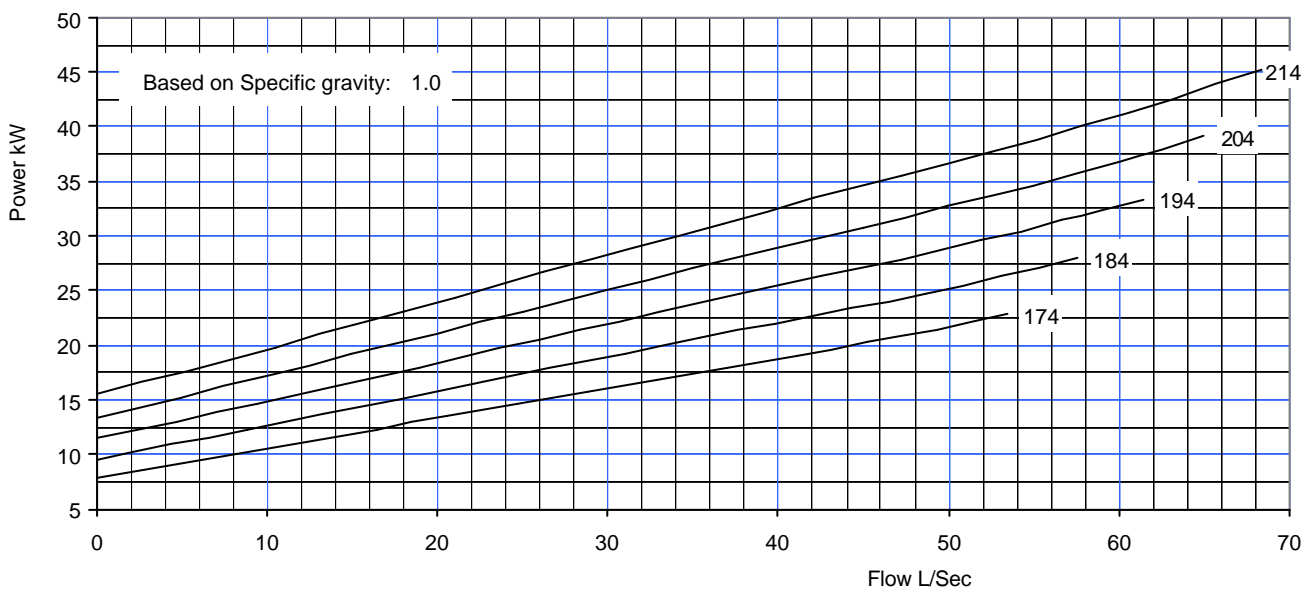
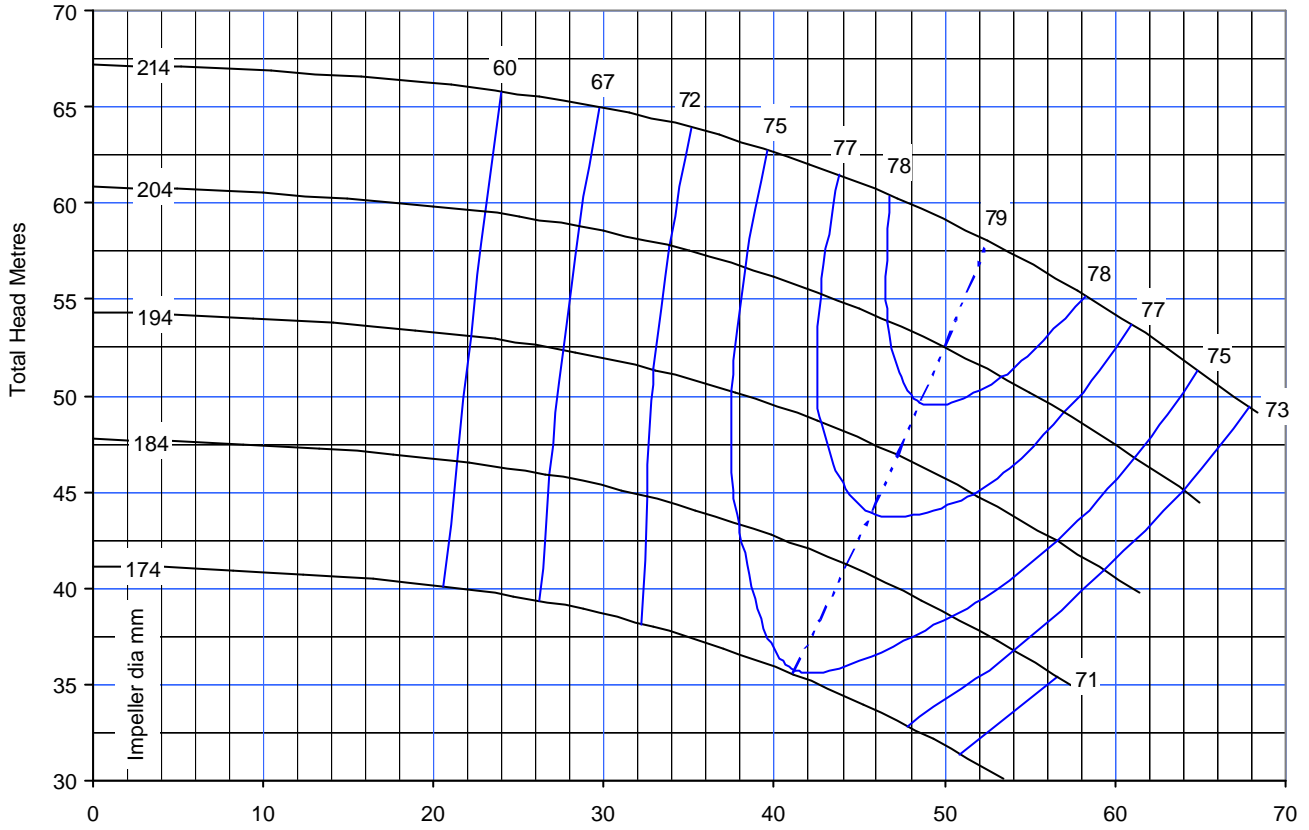
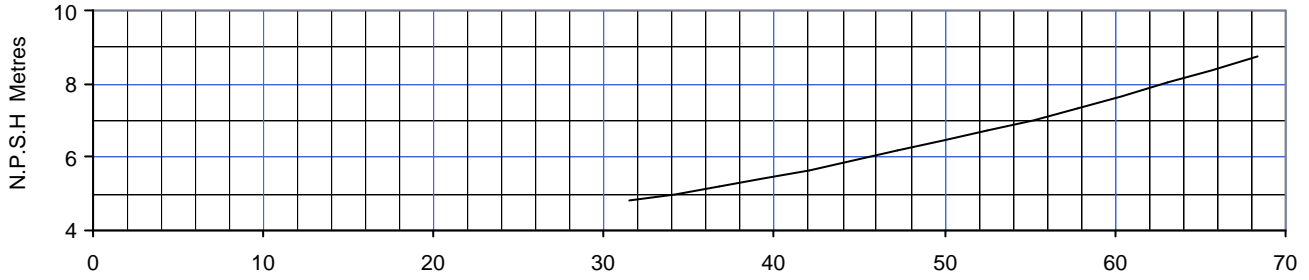
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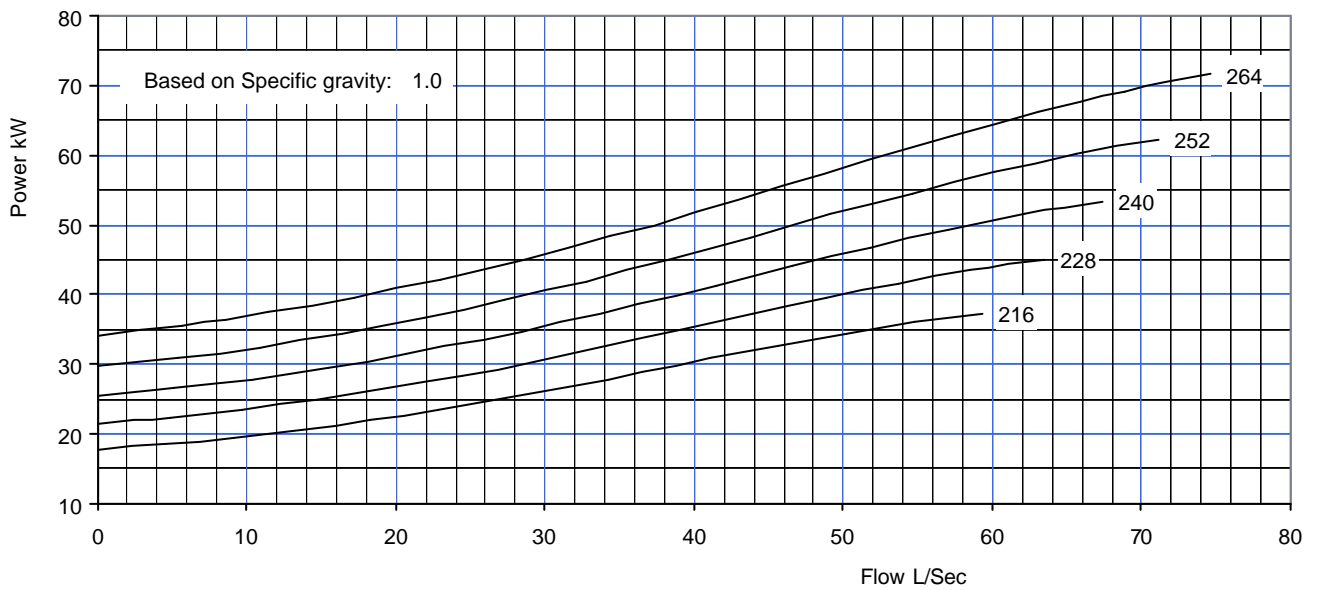
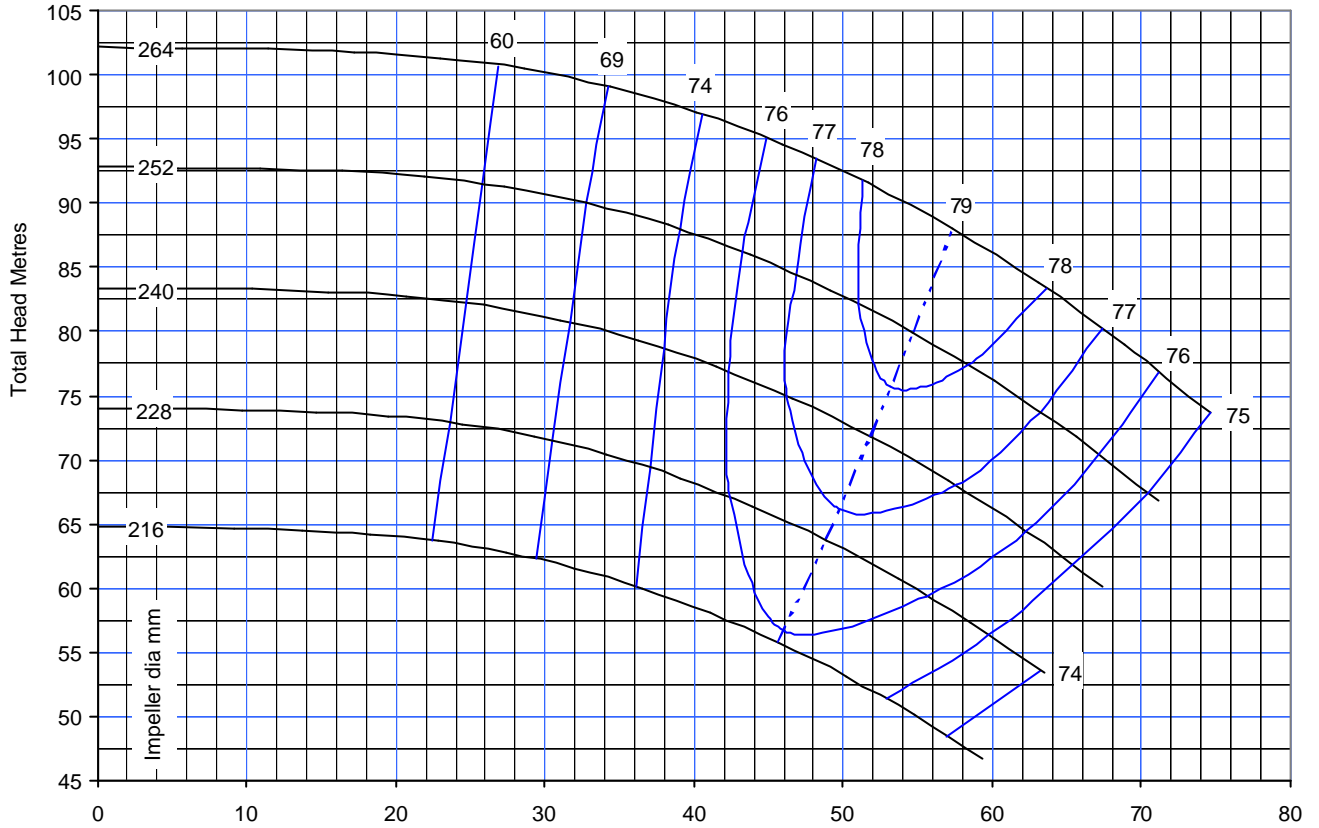
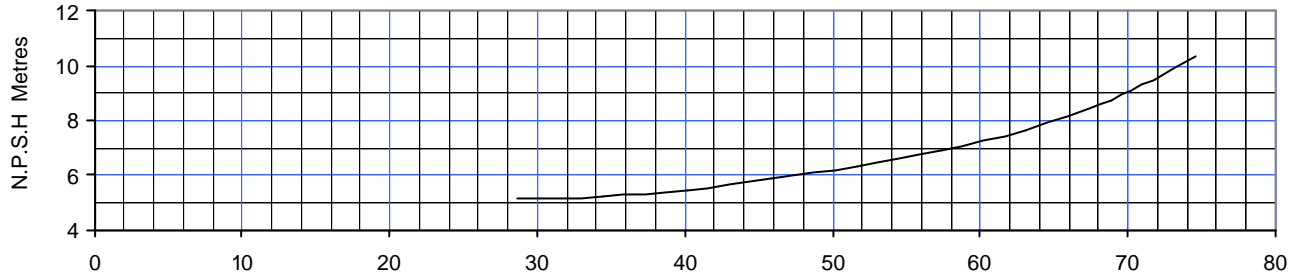
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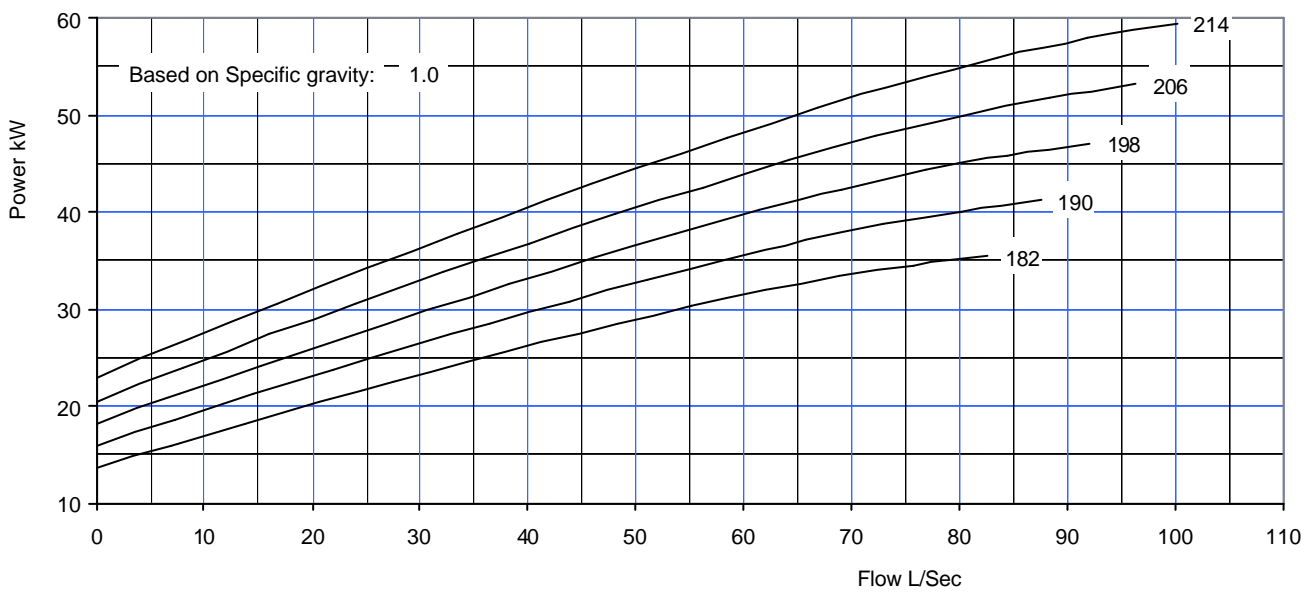
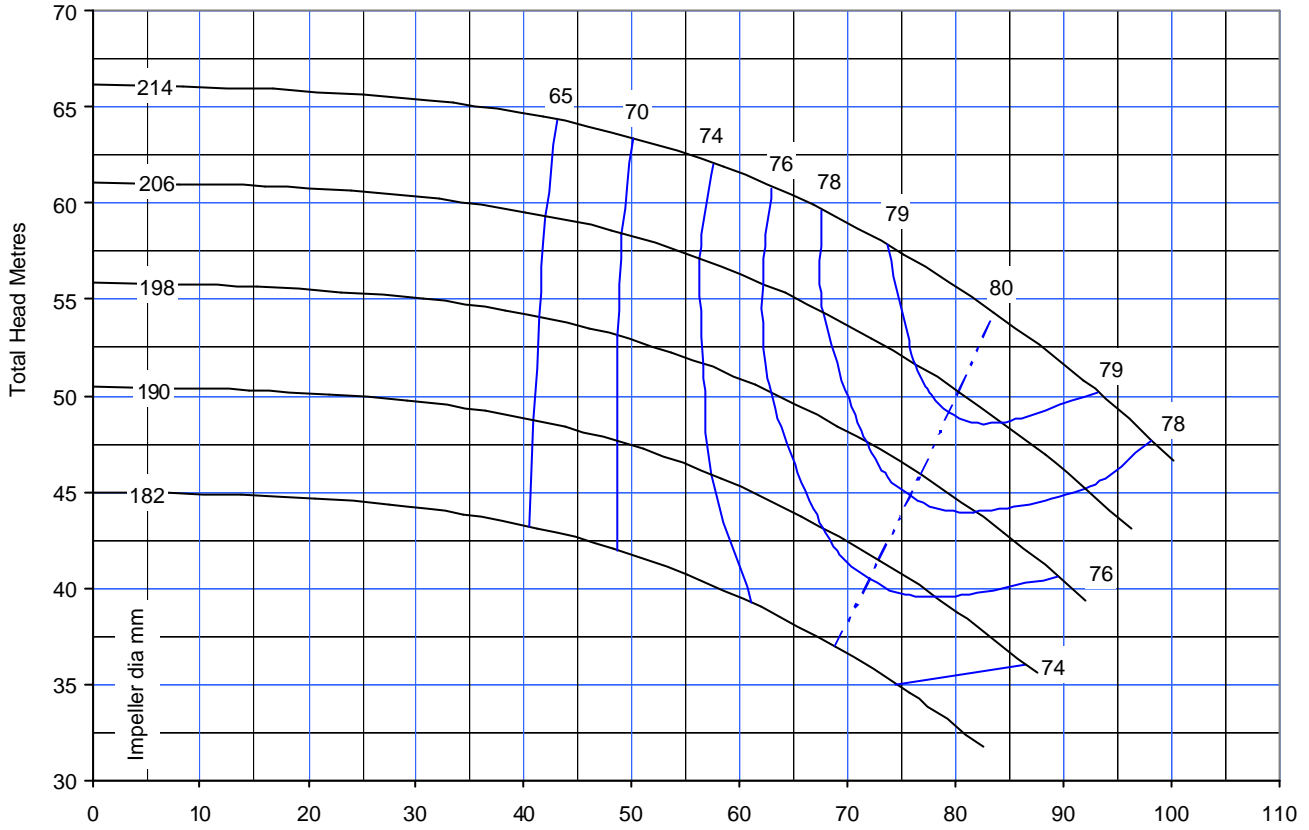
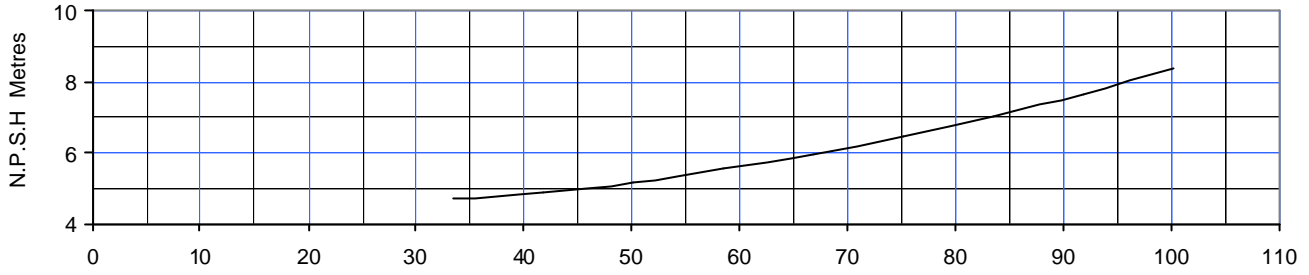
SUCTION DIA 100	DISCHARGE DIA 100	MAX PRESSURE 12 bar	PUMP MODEL GC 100-160	SPEED 2940
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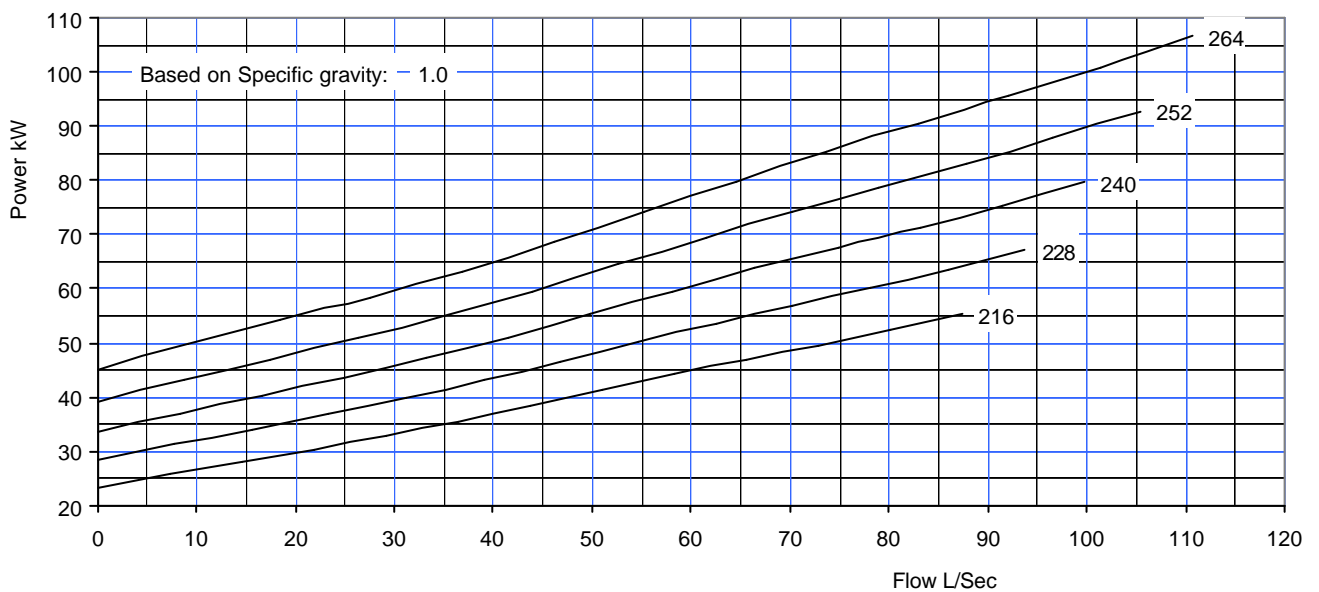
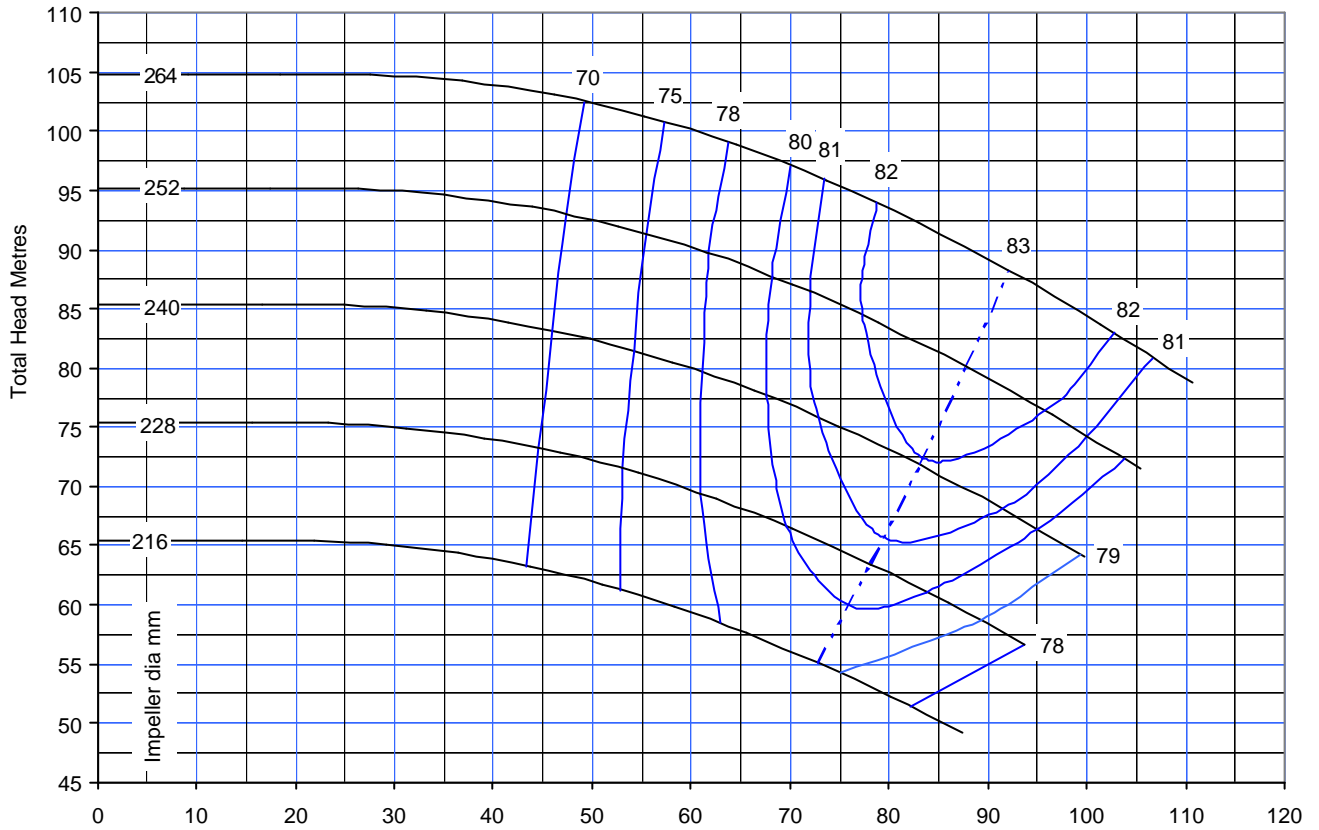
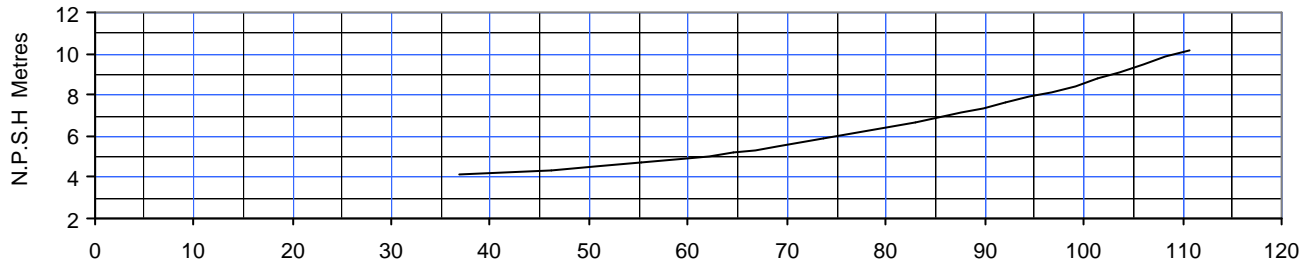
SUCTION DIA 100	DISCHARGE DIA 100	MAX PRESSURE 12 bar	PUMP MODEL GC 100-200	SPEED 2965
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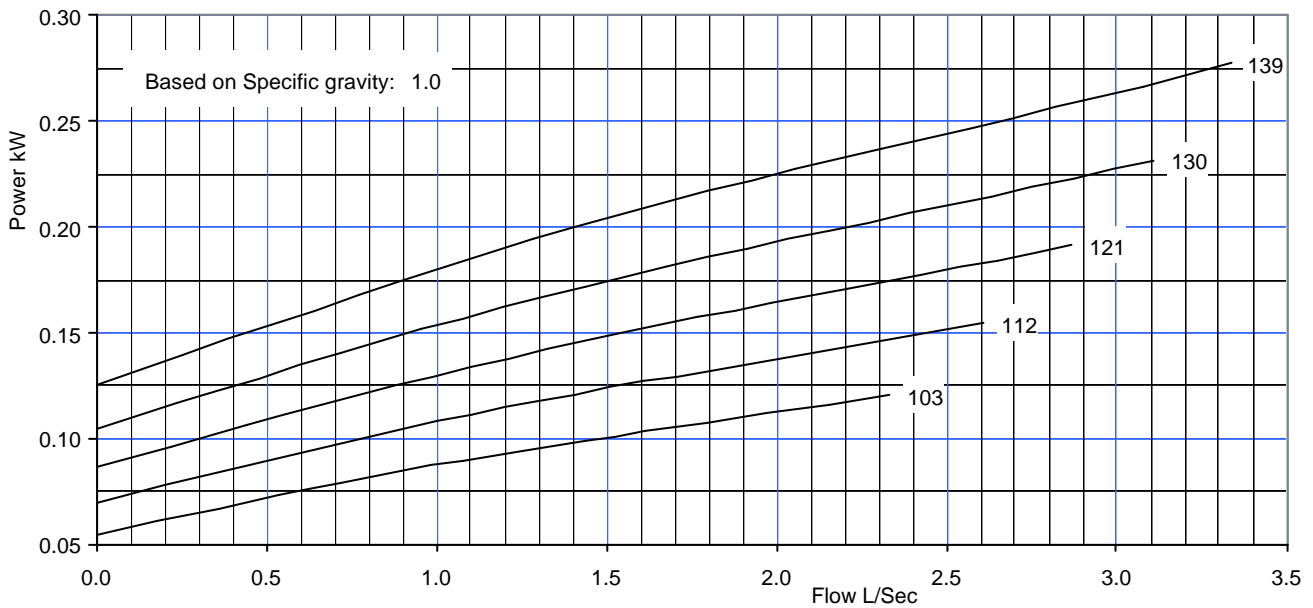
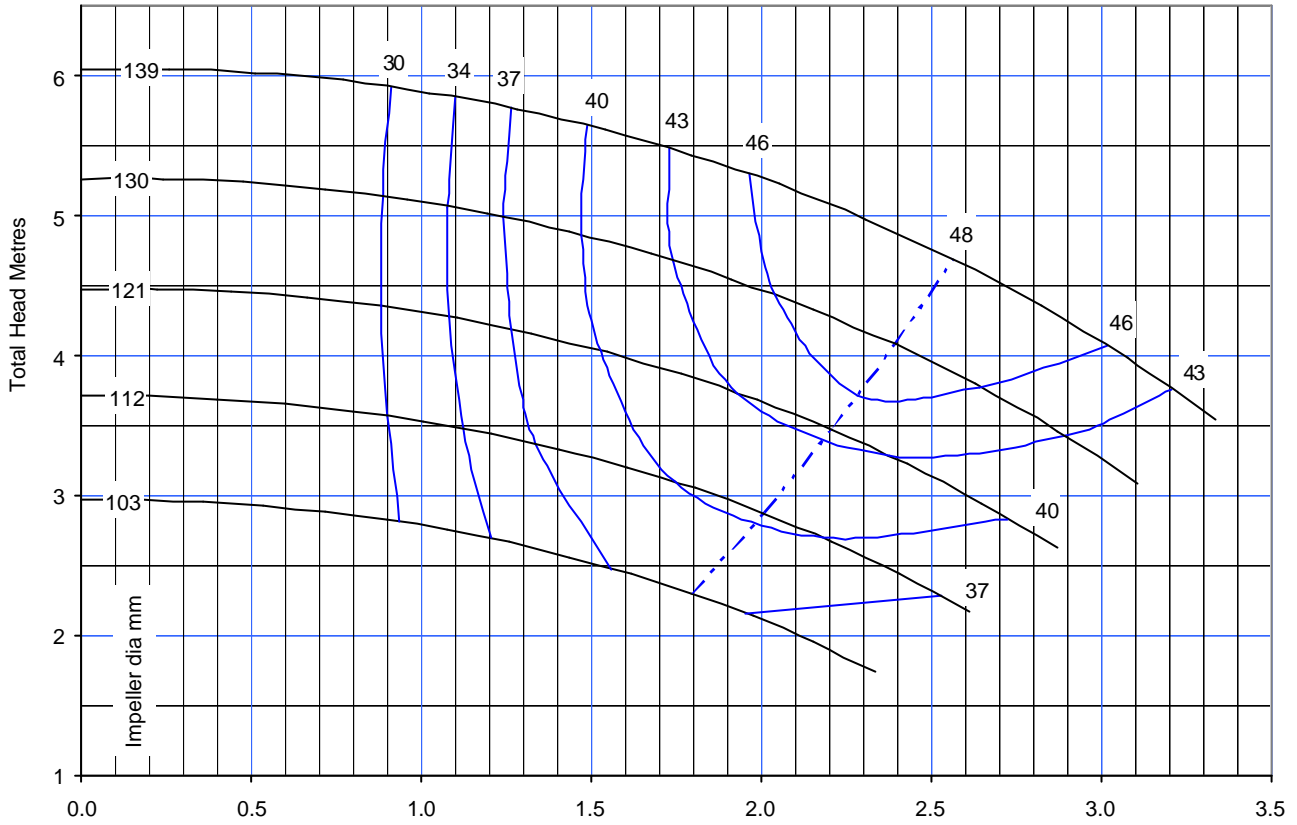
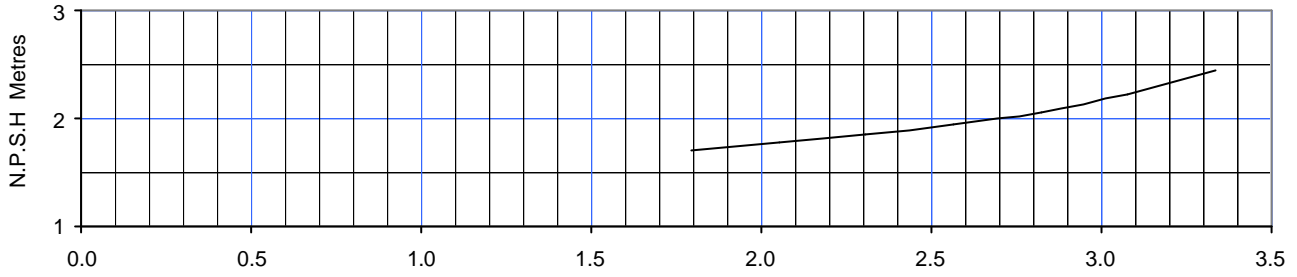
SUCTION DIA 100	DISCHARGE DIA 100	MAX PRESSURE 12 bar	PUMP MODEL GC 100-250	SPEED 2965
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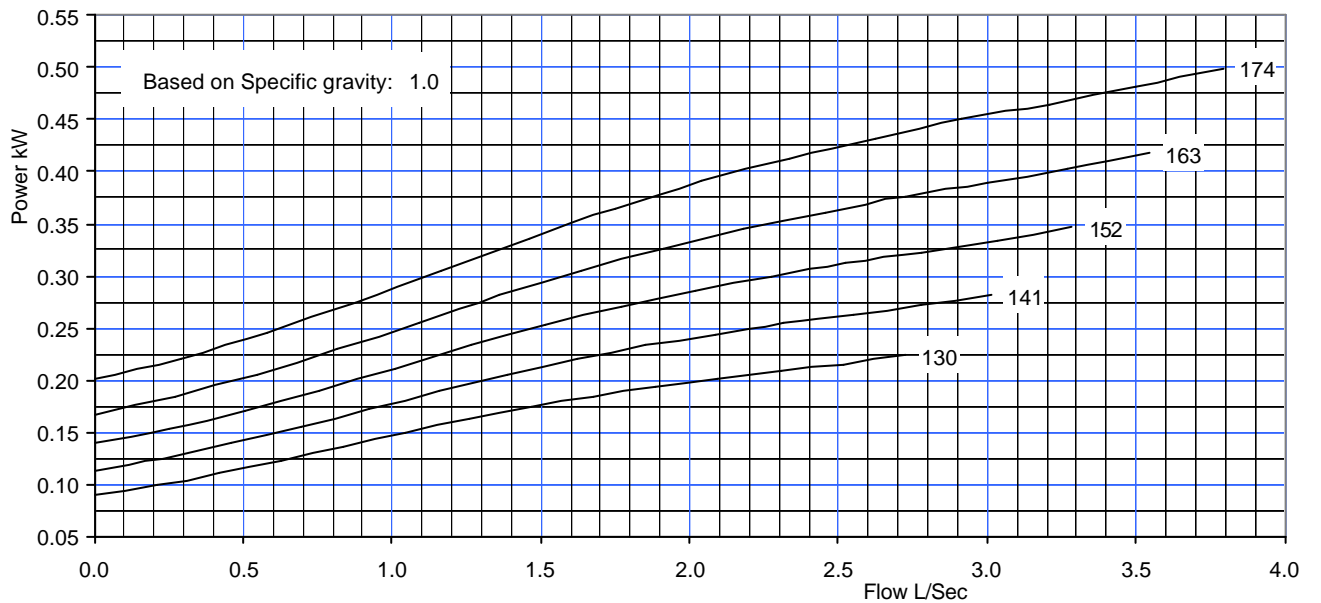
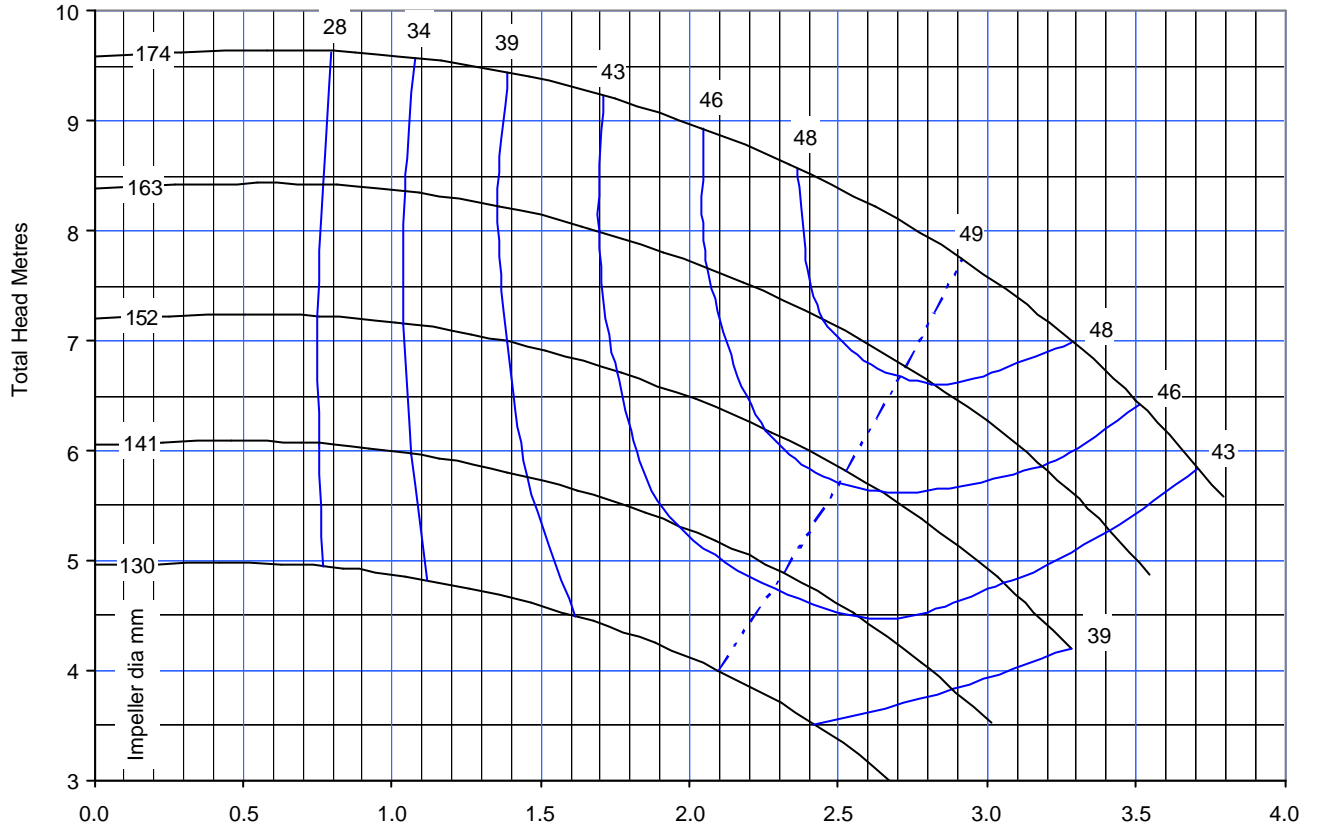
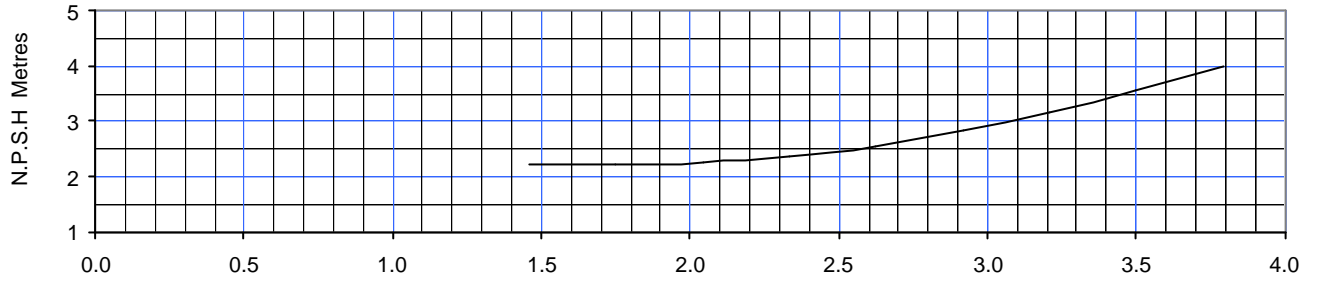
SUCTION DIA 125	DISCHARGE DIA 125	MAX PRESSURE 12 bar	PUMP MODEL GC 125-200	SPEED 2965
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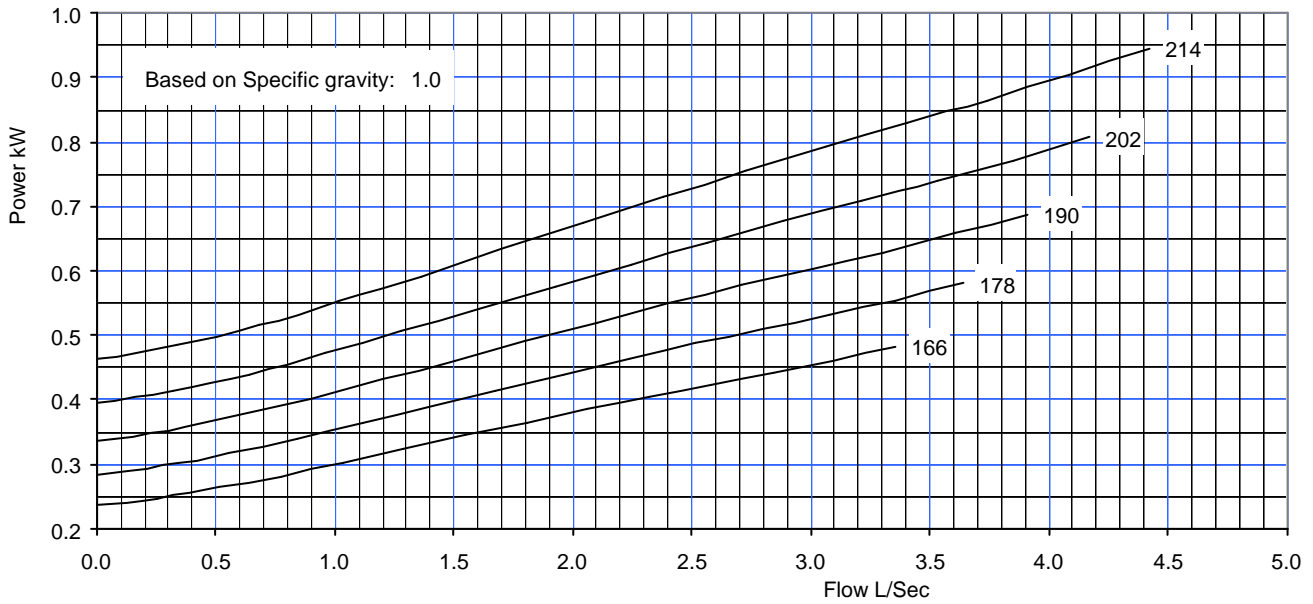
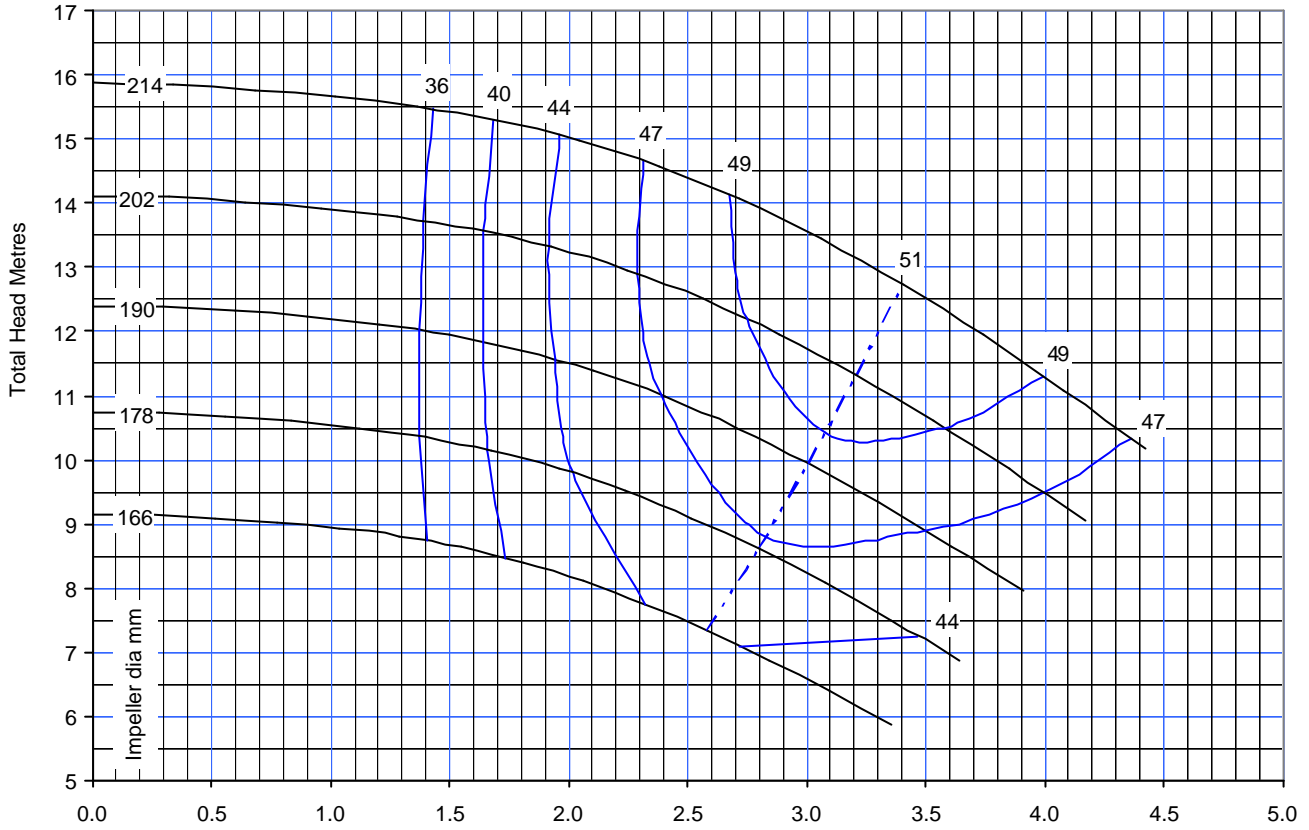
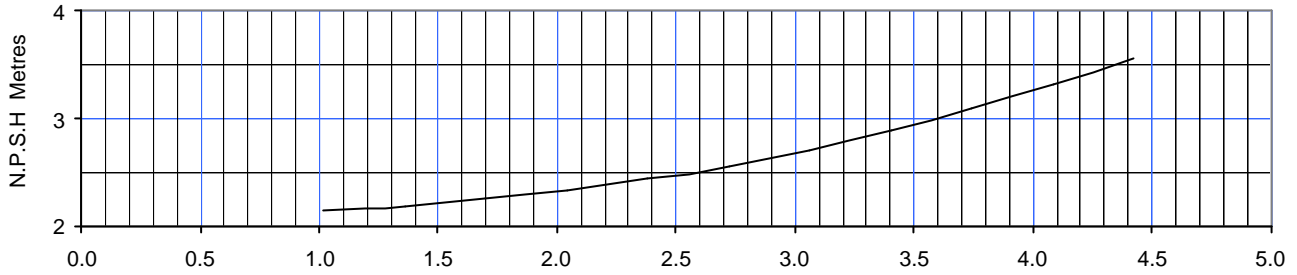
SUCTION DIA 125	DISCHARGE DIA 125	MAX PRESSURE 12 bar	PUMP MODEL GC 125-250	SPEED 2970
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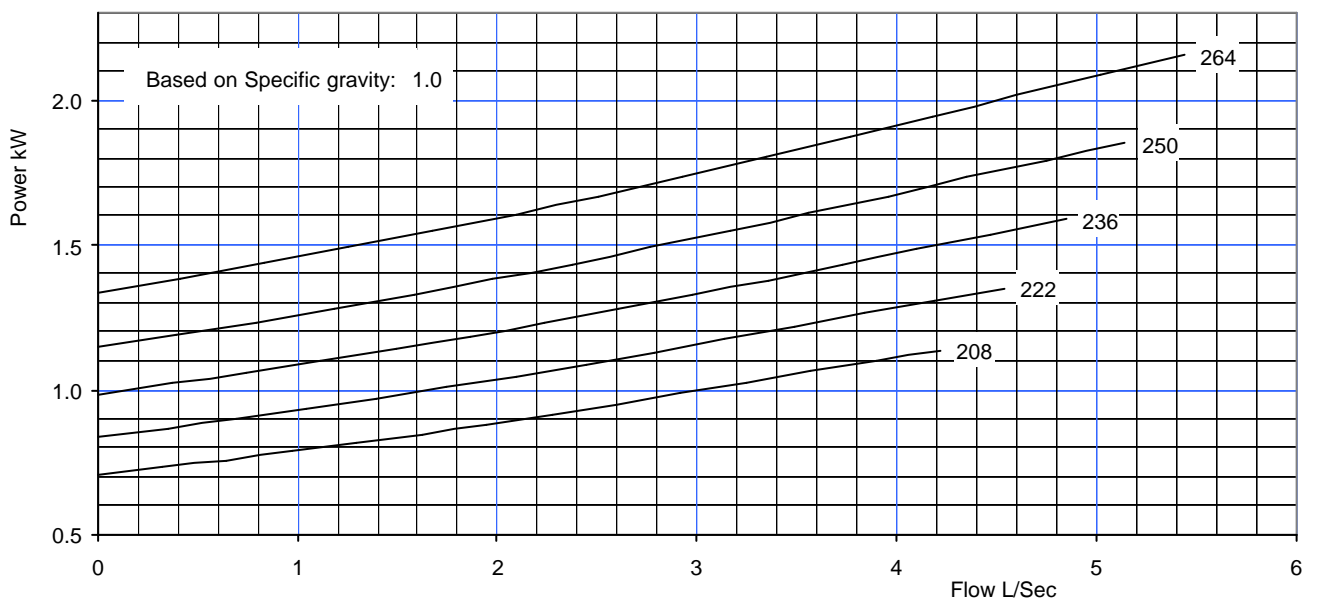
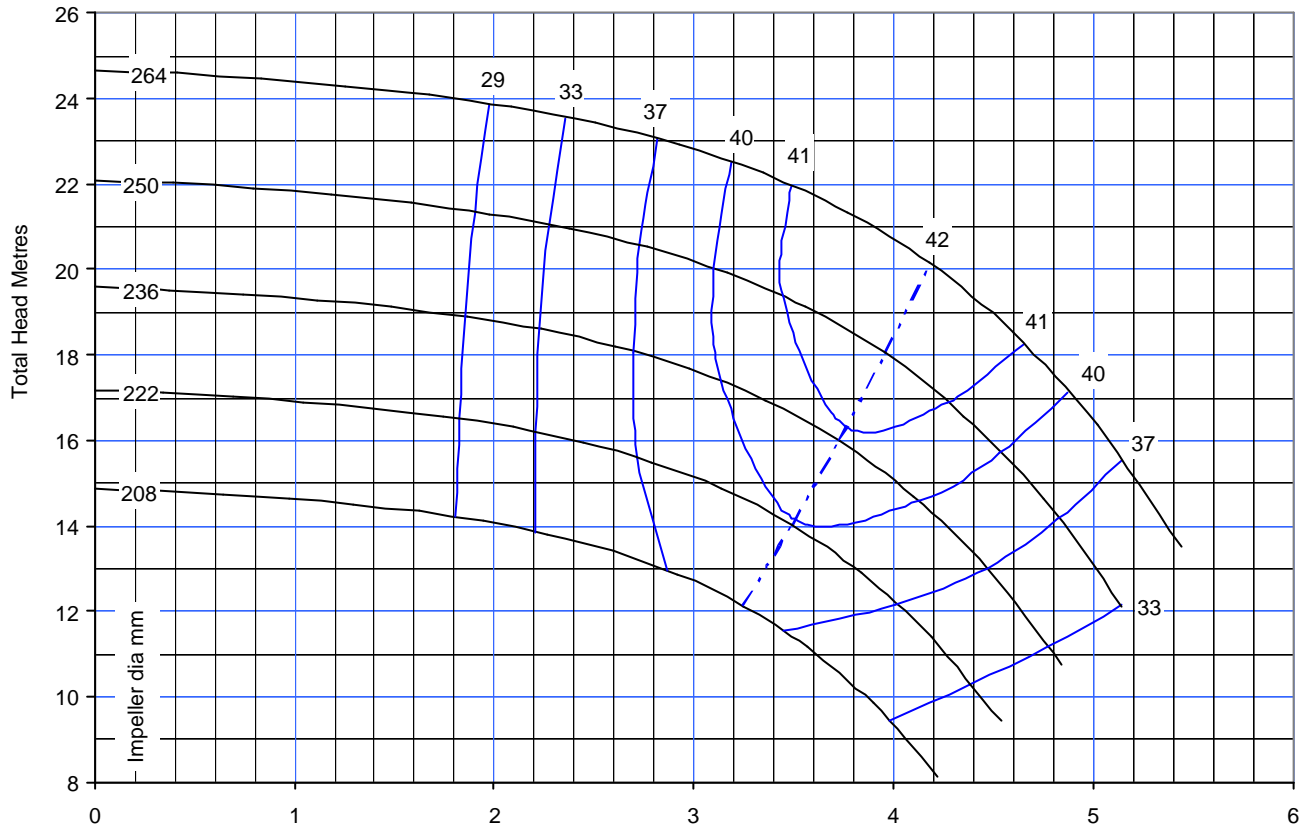
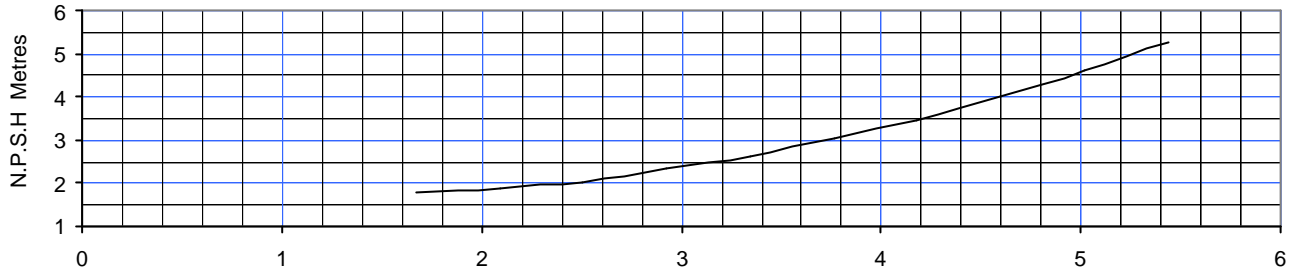
SUCTION DIA 40	DISCHARGE DIA 40	MAX PRESSURE 12 bar	PUMP MODEL GC 40-125	SPEED 1410
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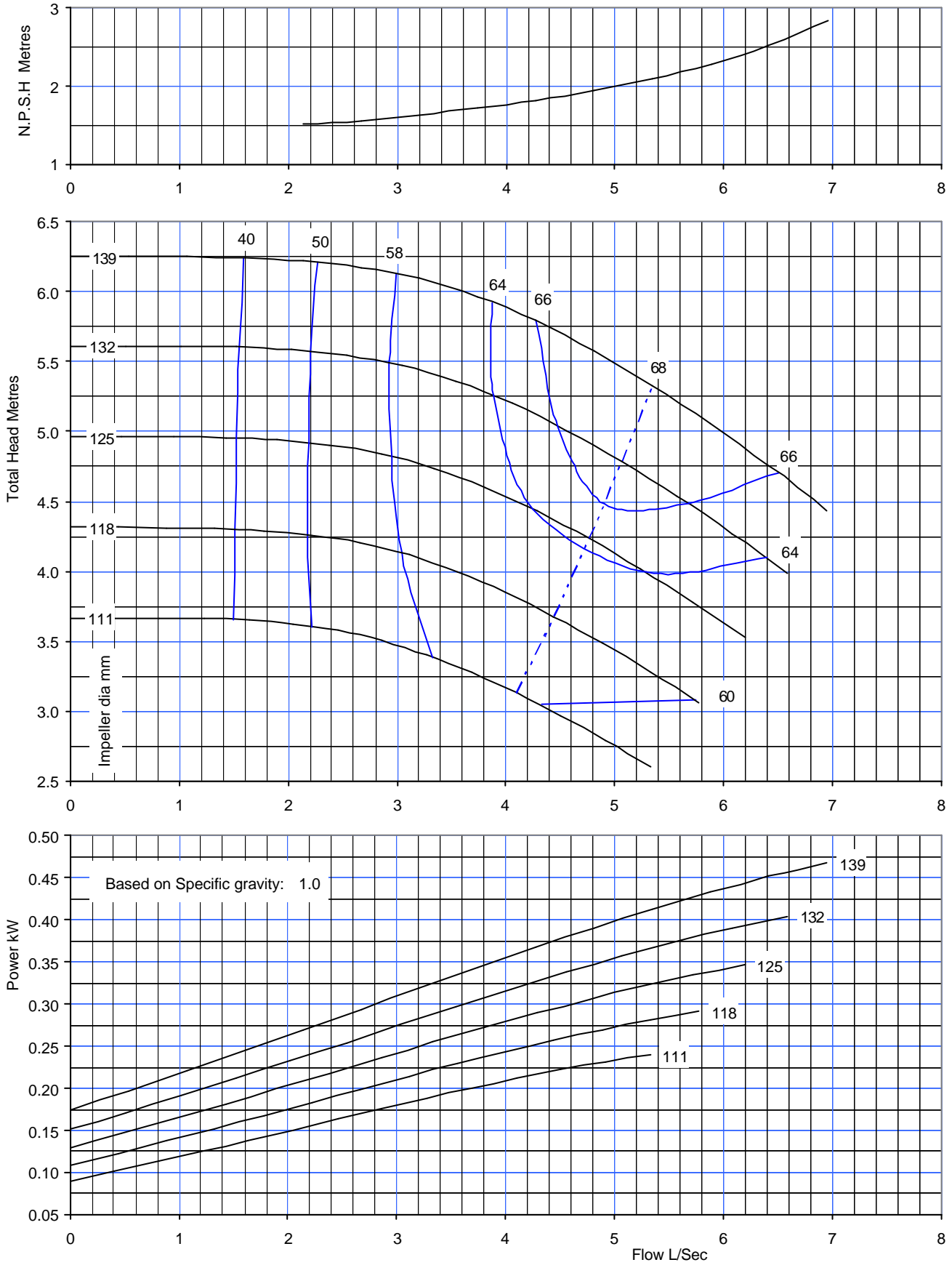
SUCTION DIA 50	DISCHARGE DIA 50	MAX PRESSURE 12 bar	PUMP MODEL GC 50-160	SPEED 1410
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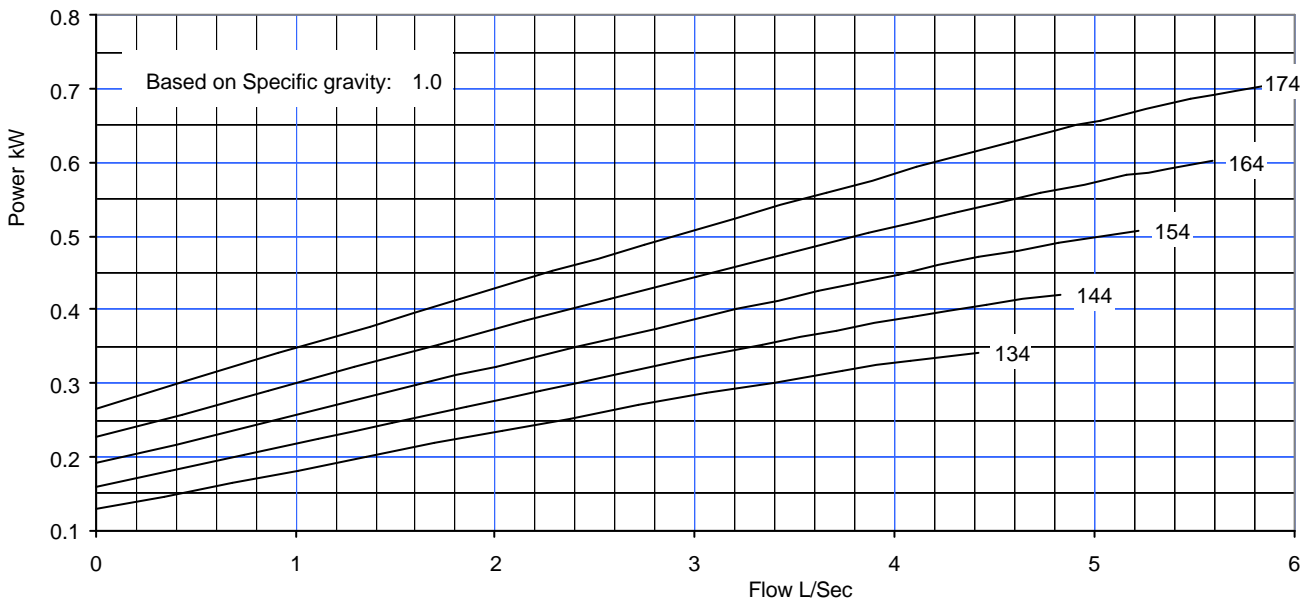
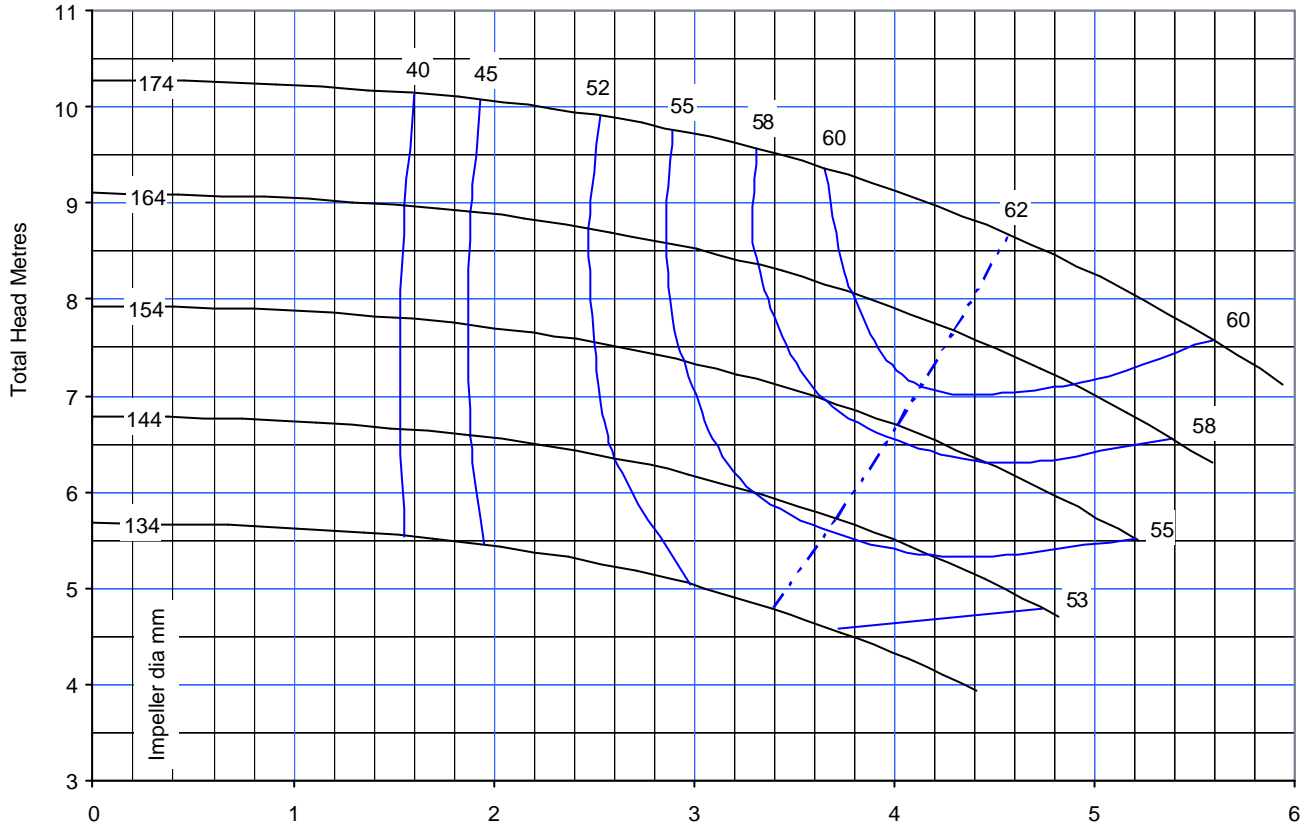
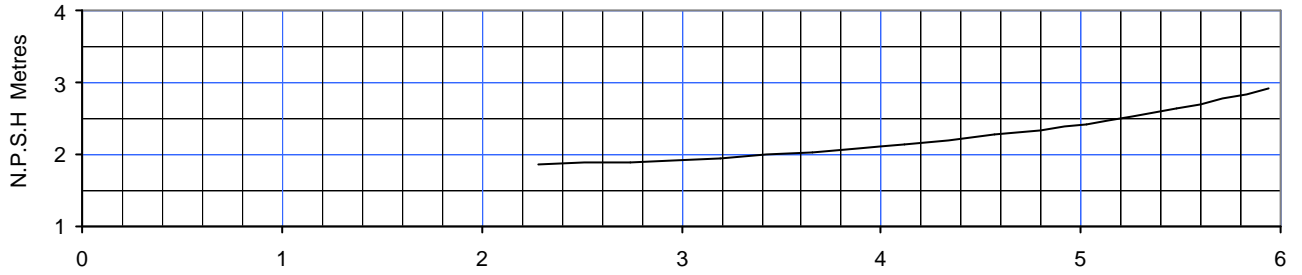
SUCTION DIA 50	DISCHARGE DIA 50	MAX PRESSURE 12 bar	PUMP MODEL GC 50-200	SPEED 1410
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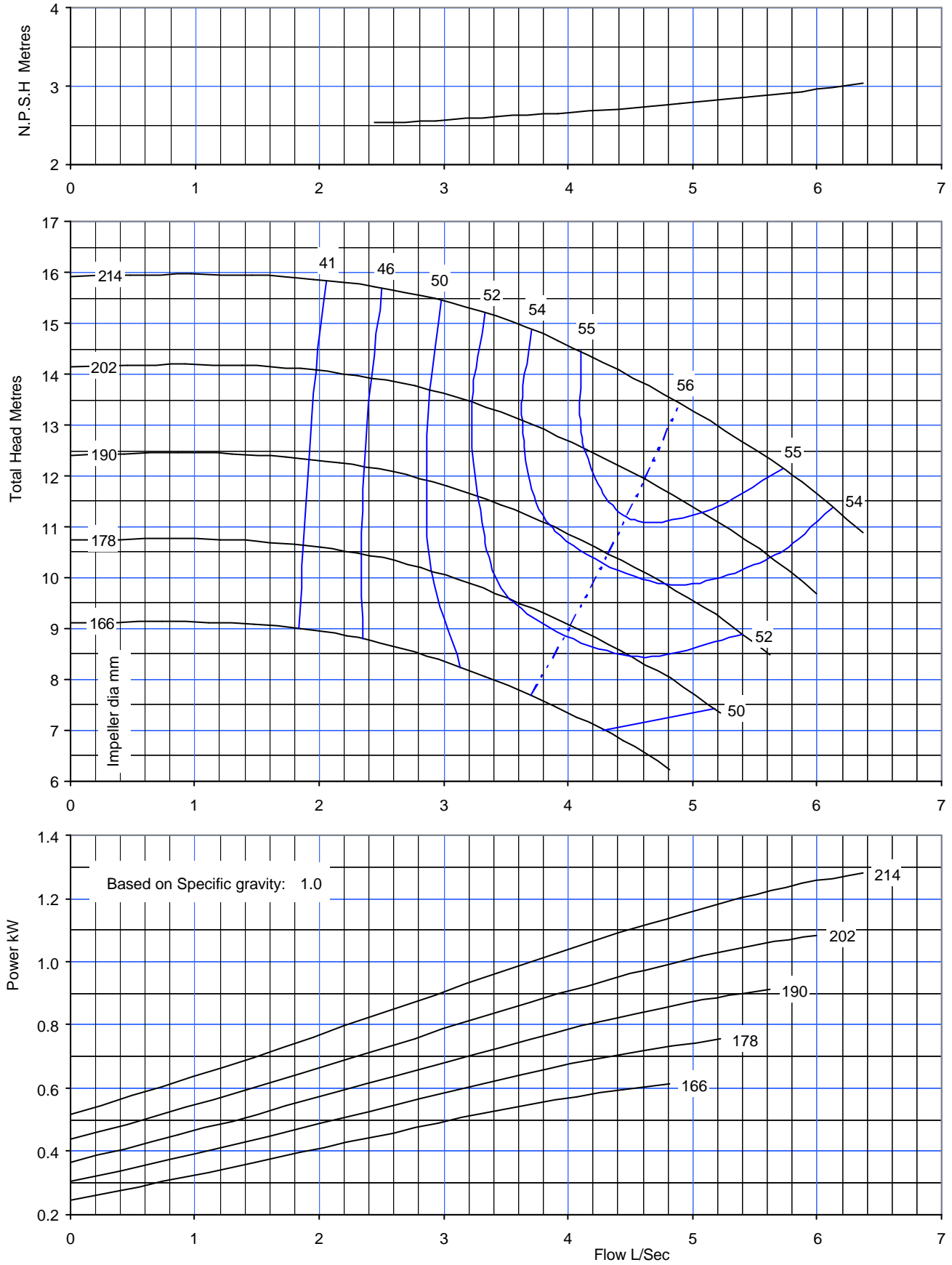
SUCTION DIA 50	DISCHARGE DIA 50	MAX PRESSURE 12 bar	PUMP MODEL GC 50-250	SPEED 1420
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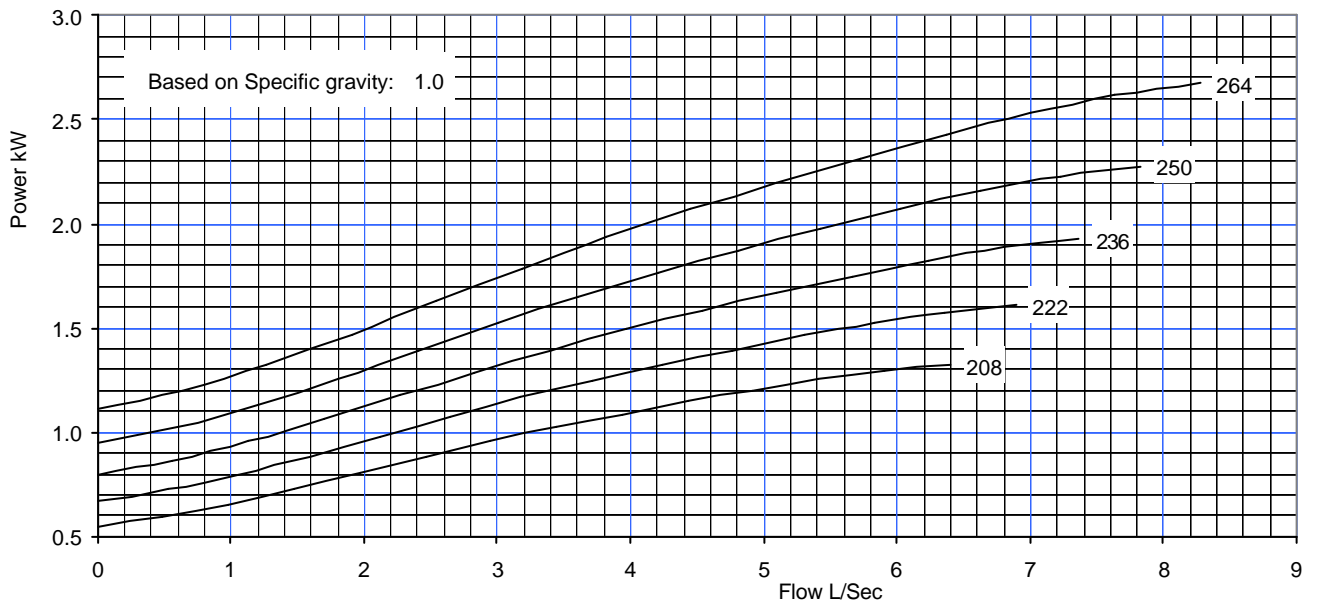
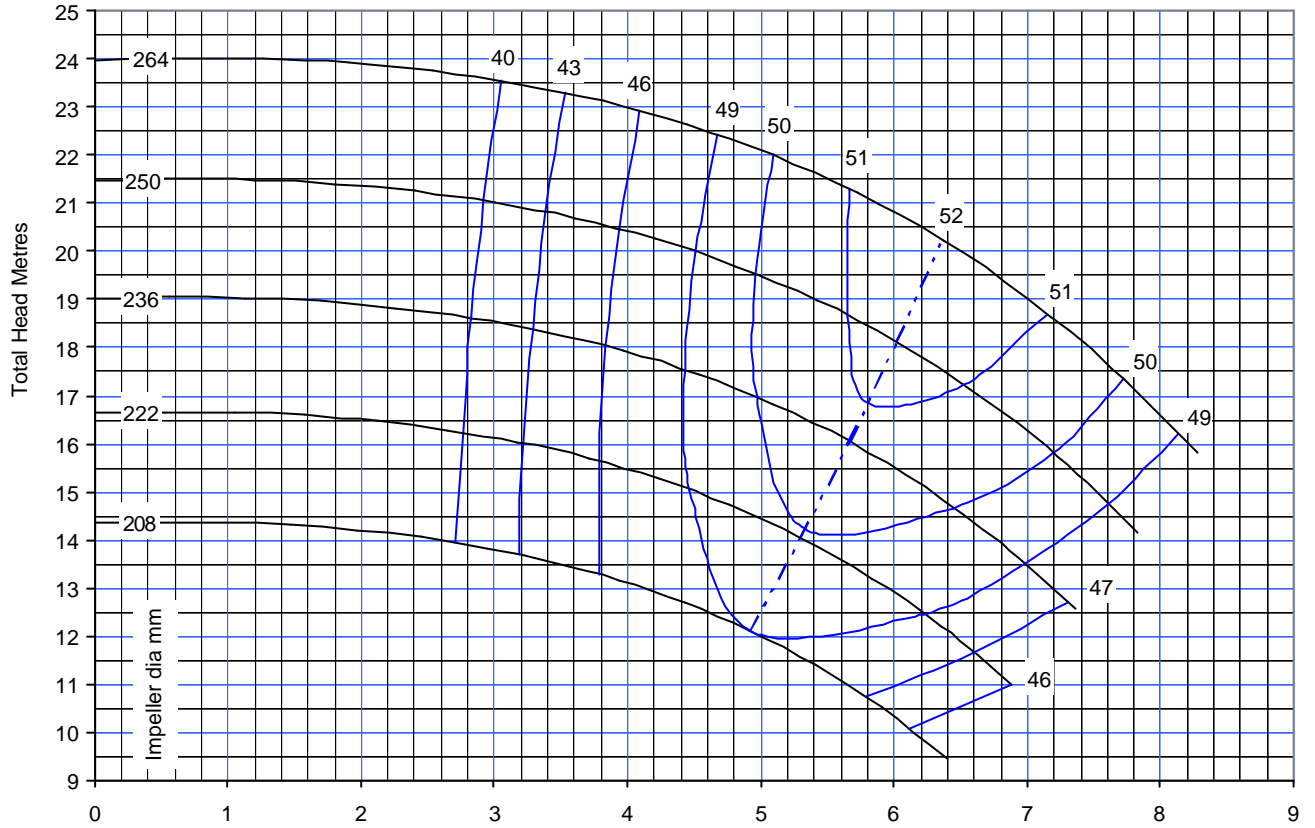
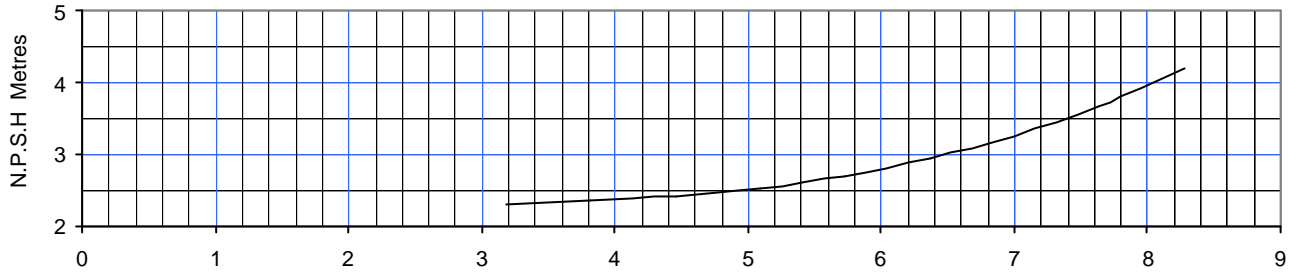
SUCTION DIA 65	DISCHARGE DIA 65	MAX PRESSURE 12 bar	PUMP MODEL GC 65-125	SPEED 1410
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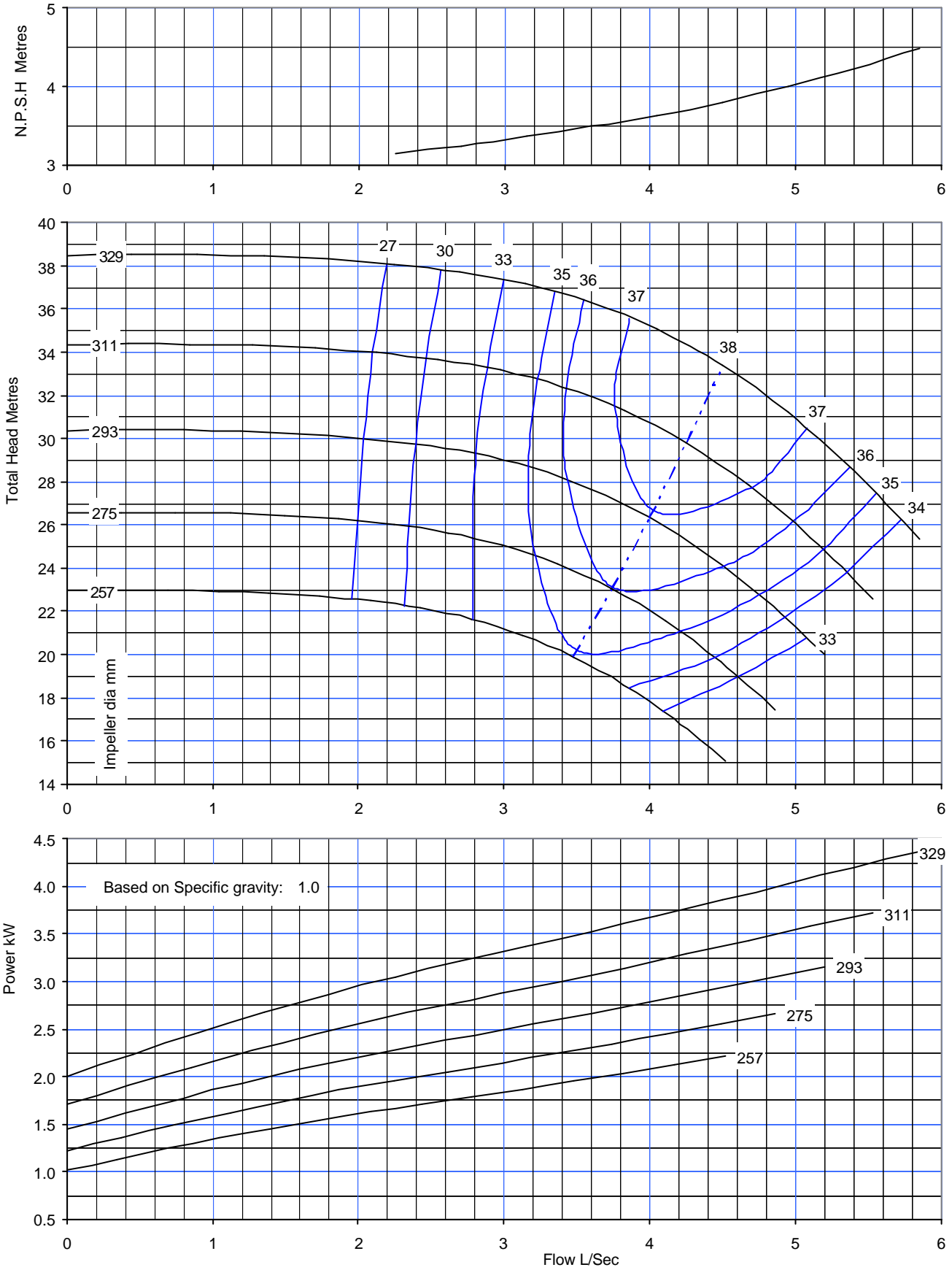
SUCTION DIA 65	DISCHARGE DIA 65	MAX PRESSURE 12 bar	PUMP MODEL GC 65-160	SPEED 1410
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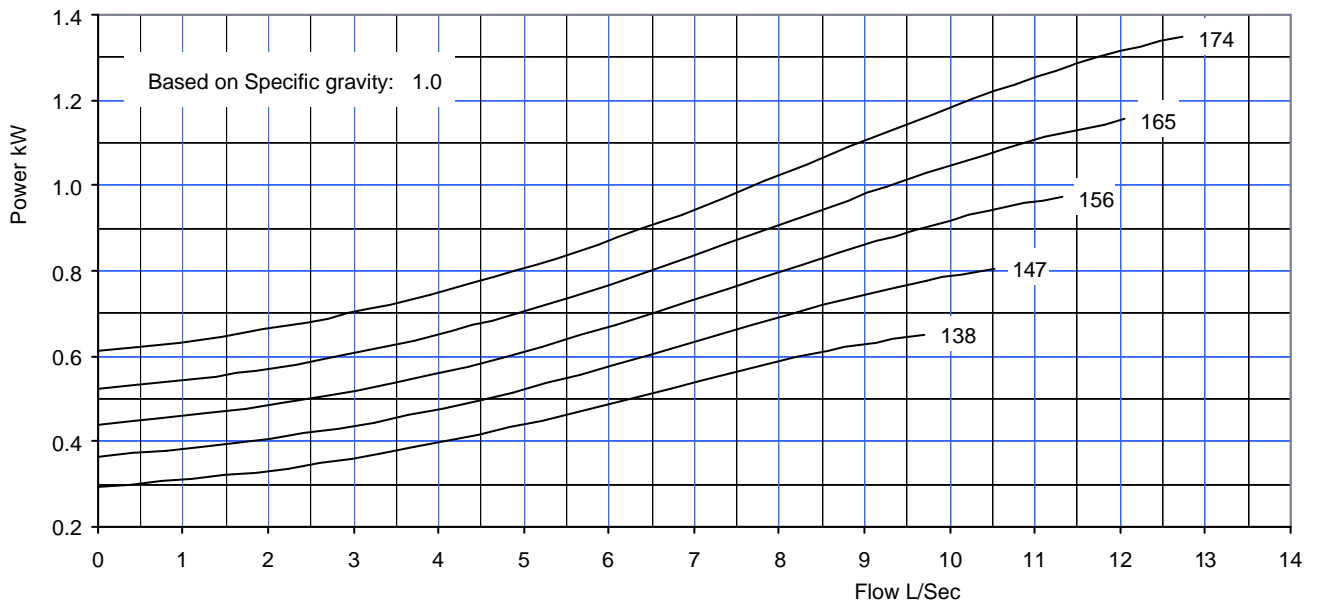
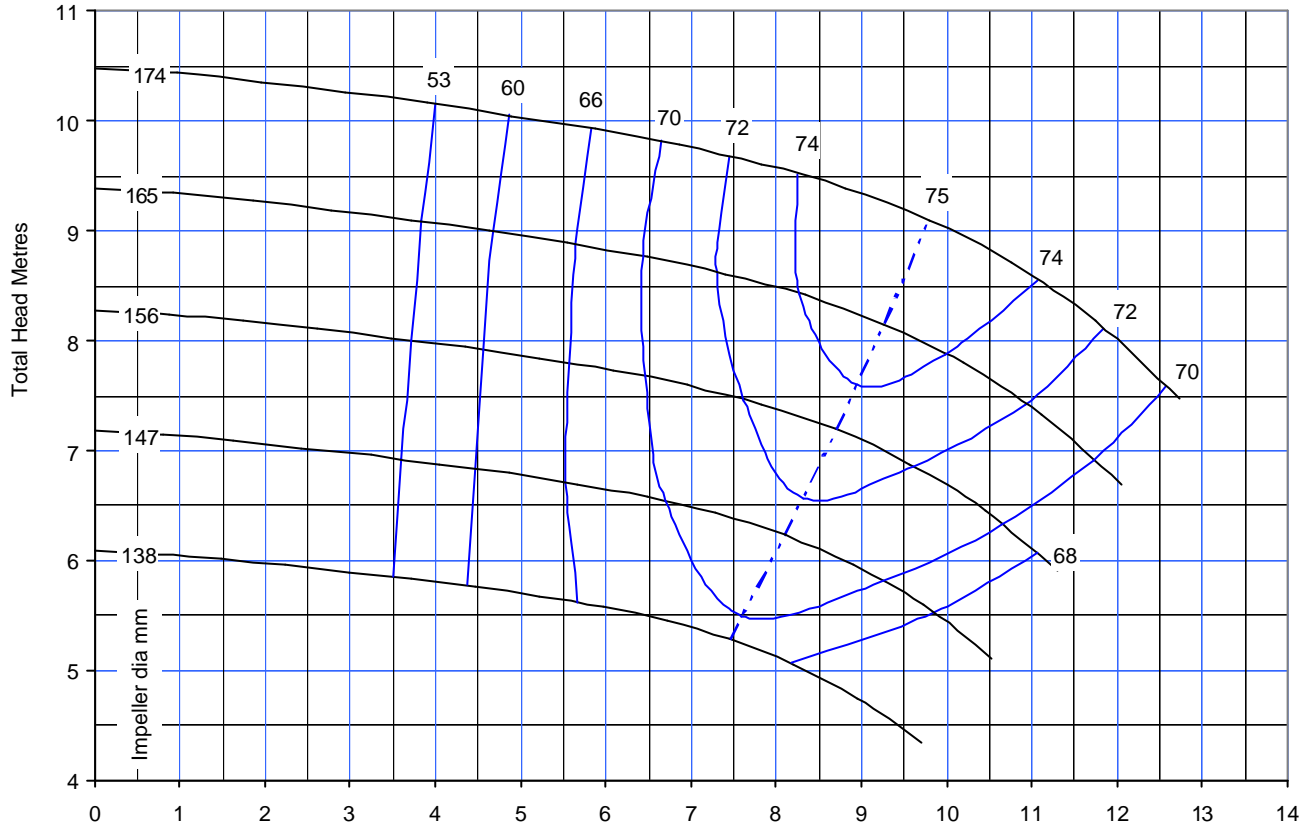
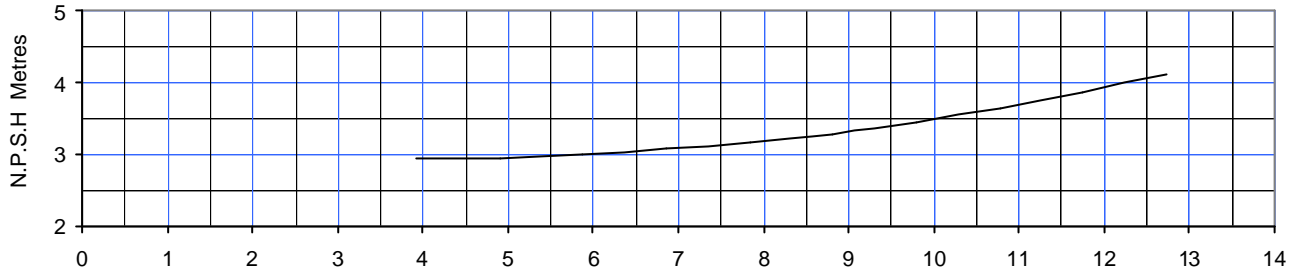
SUCTION DIA 65	DISCHARGE DIA 65	MAX PRESSURE 12 bar	PUMP MODEL GC 65-200	SPEED 1420
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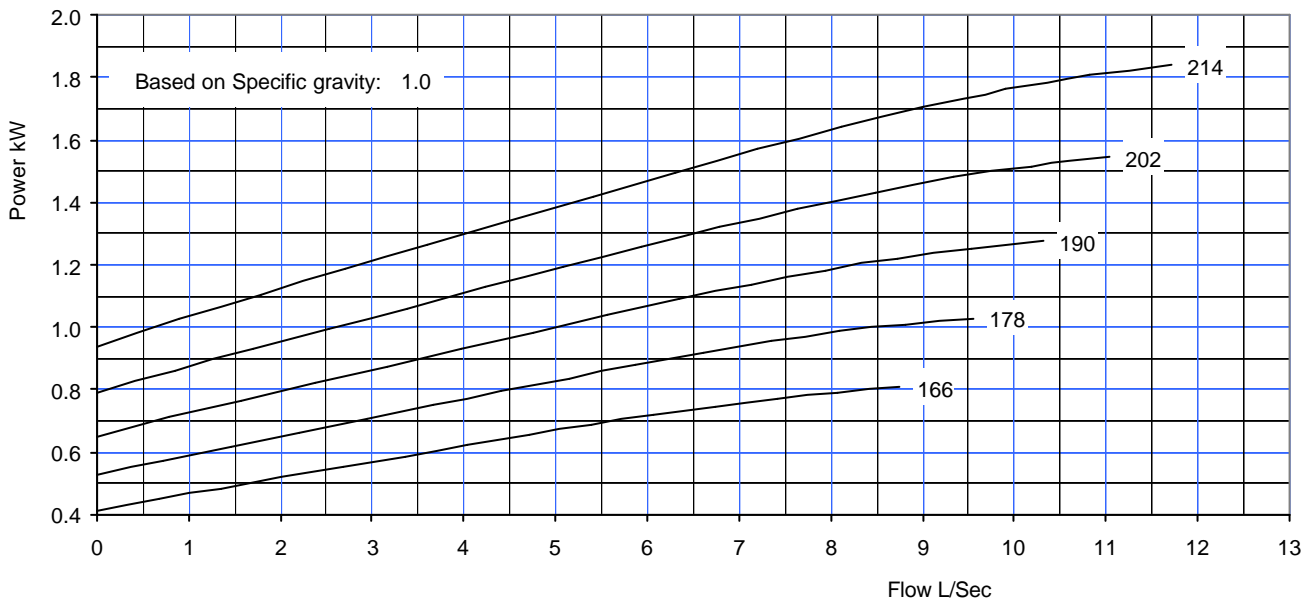
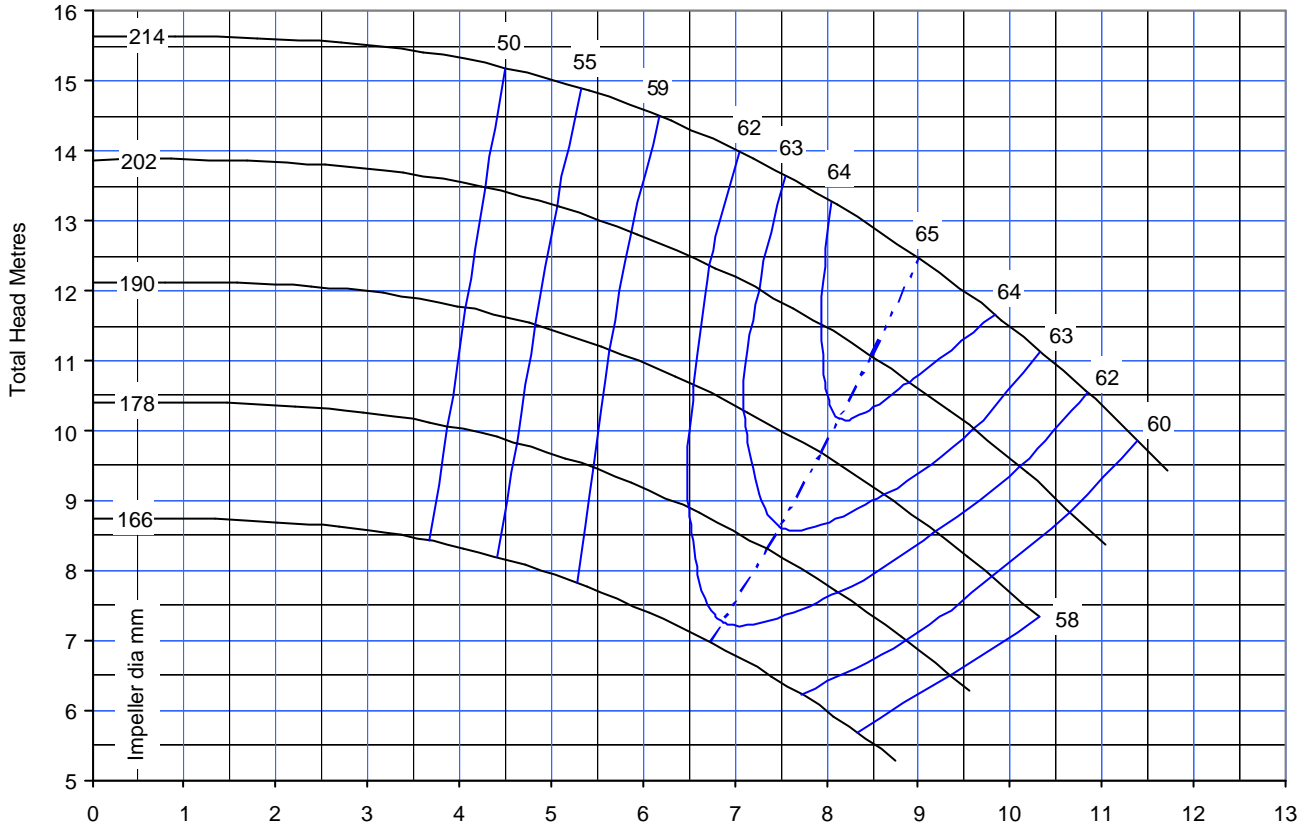
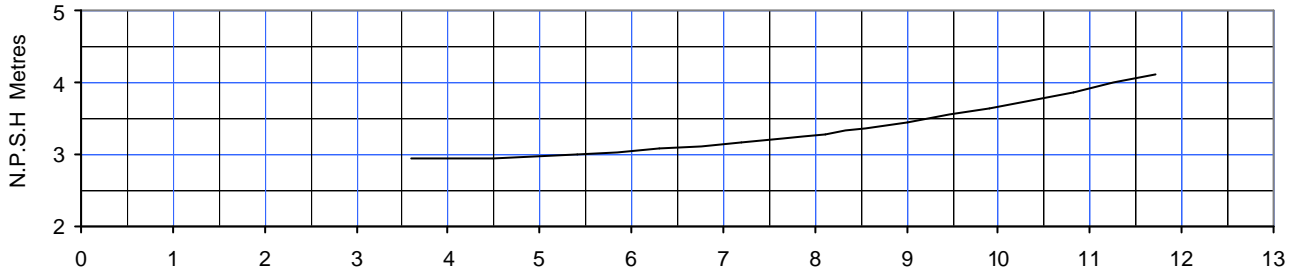
SUCTION DIA 65	DISCHARGE DIA 65	MAX PRESSURE 12 bar	PUMP MODEL GC 65-250	SPEED 1420
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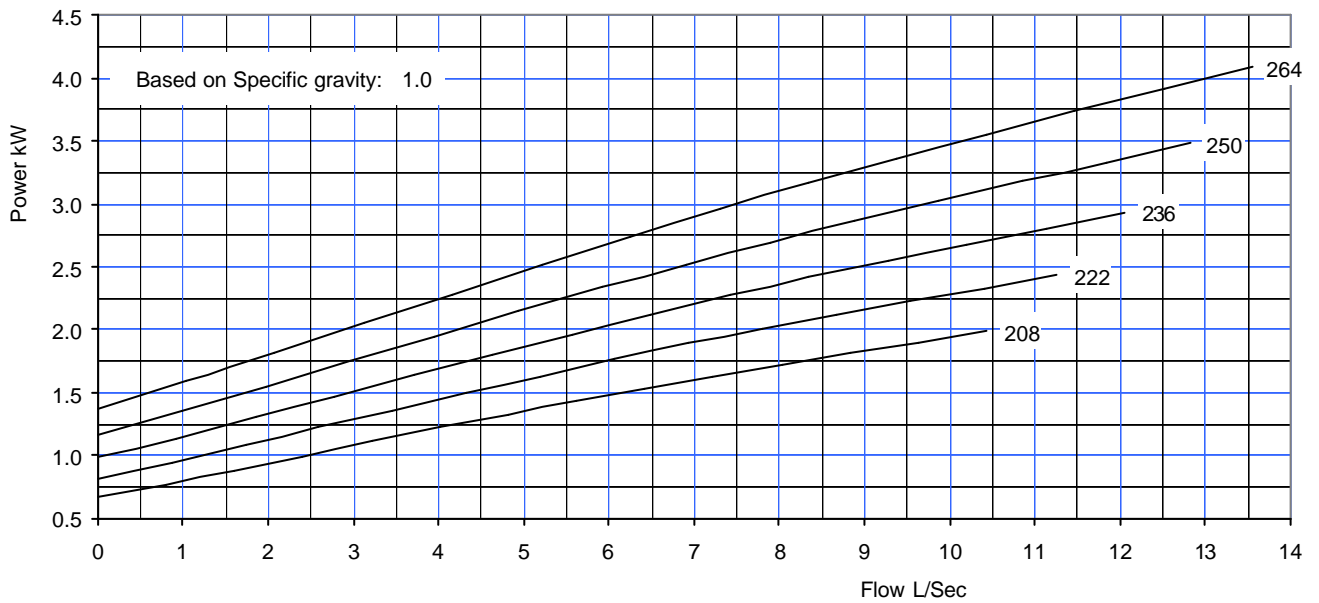
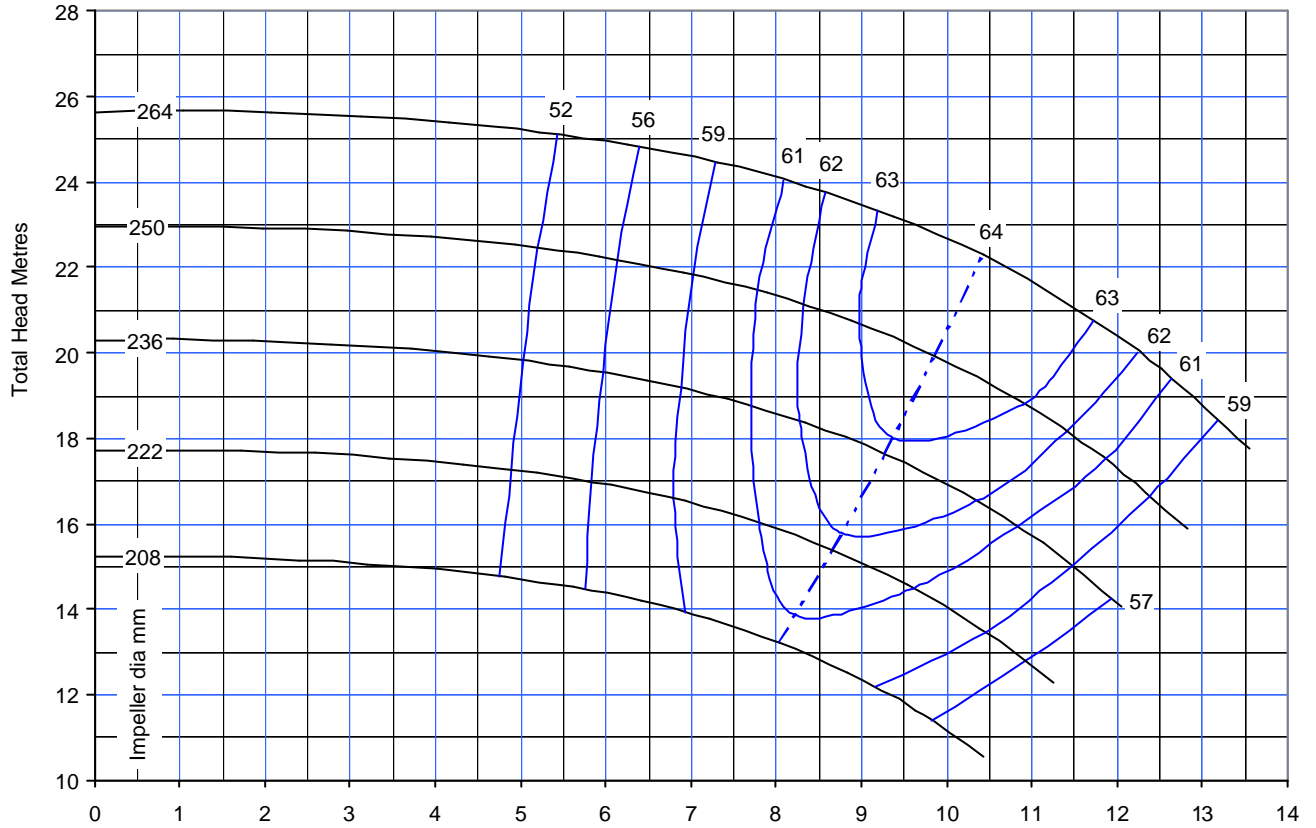
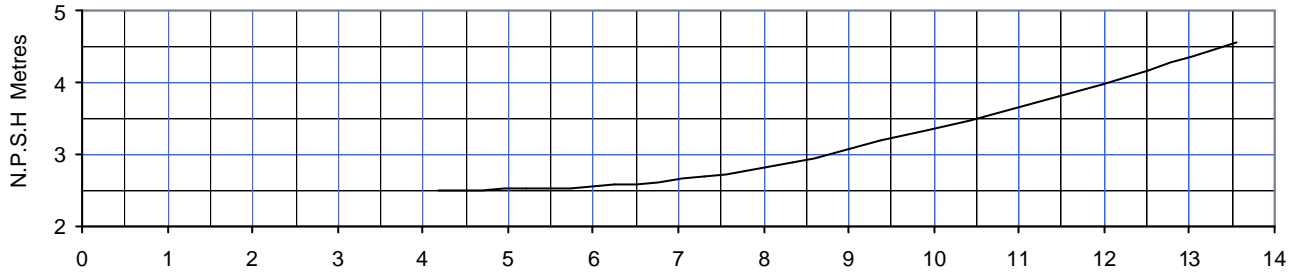
SUCTION DIA 65	DISCHARGE DIA 65	MAX PRESSURE 12 bar	PUMP MODEL GC 65-315	SPEED 1450
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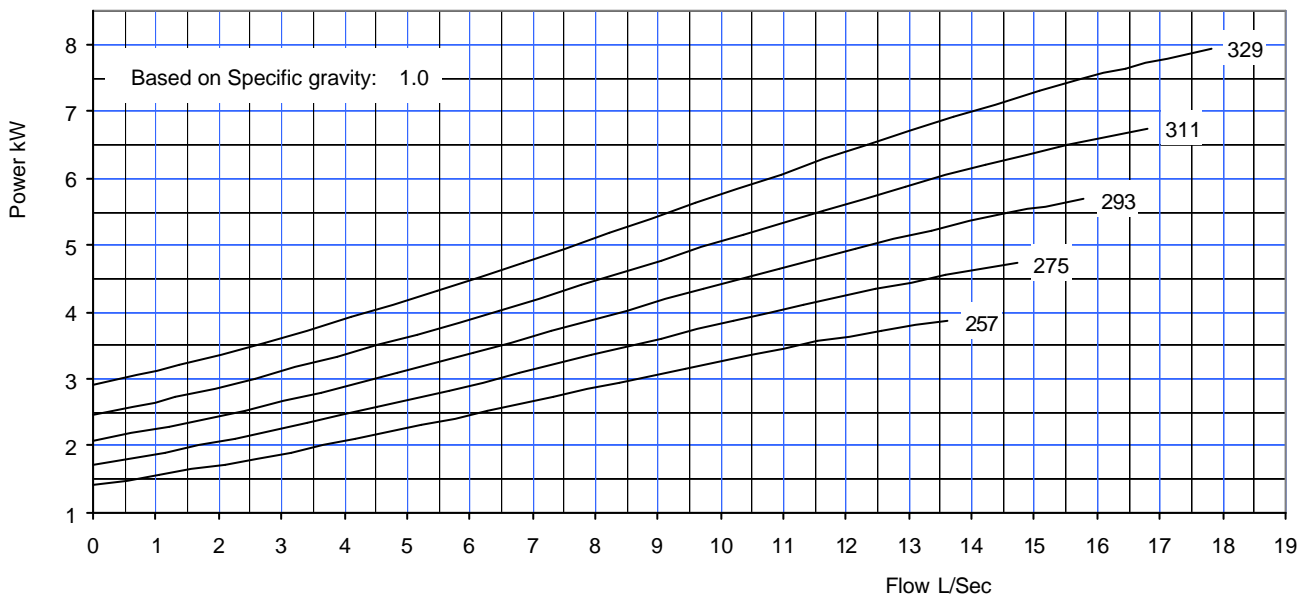
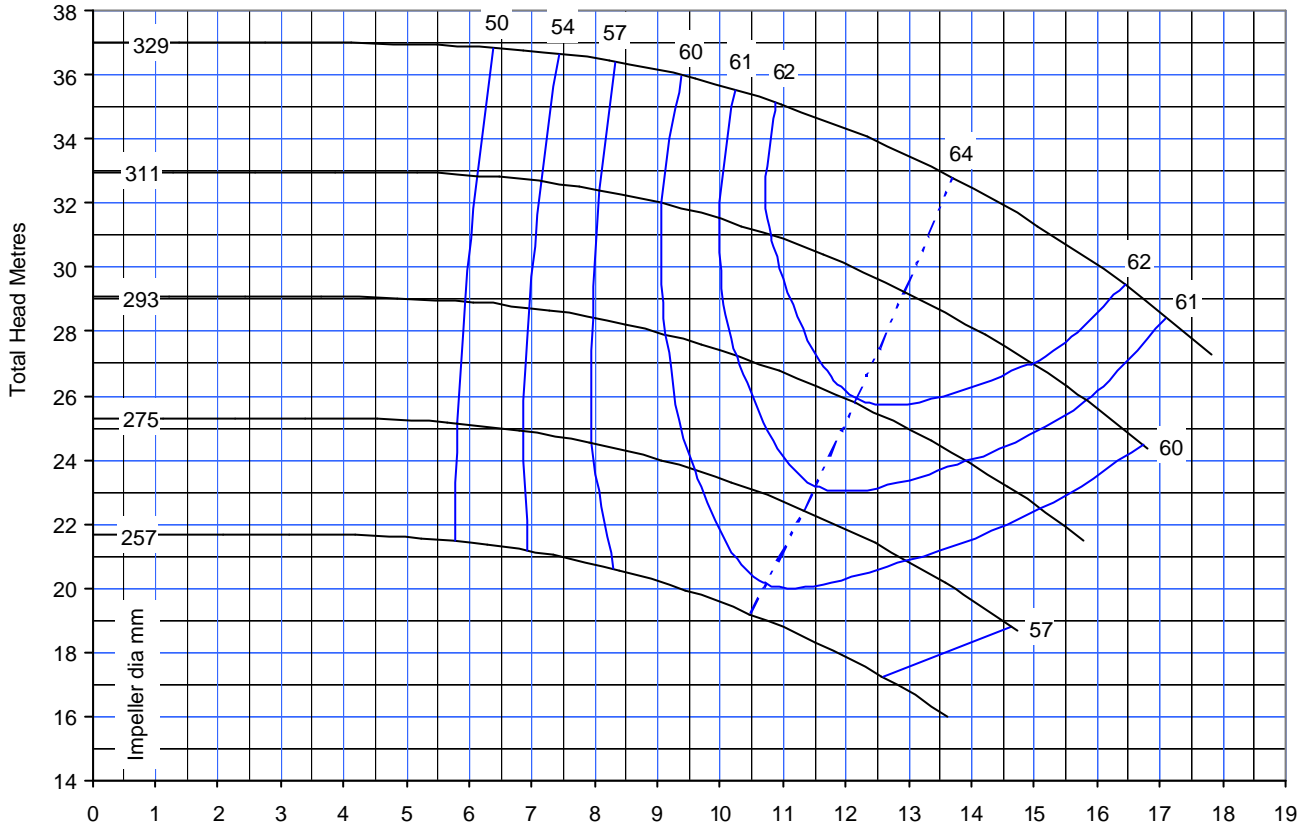
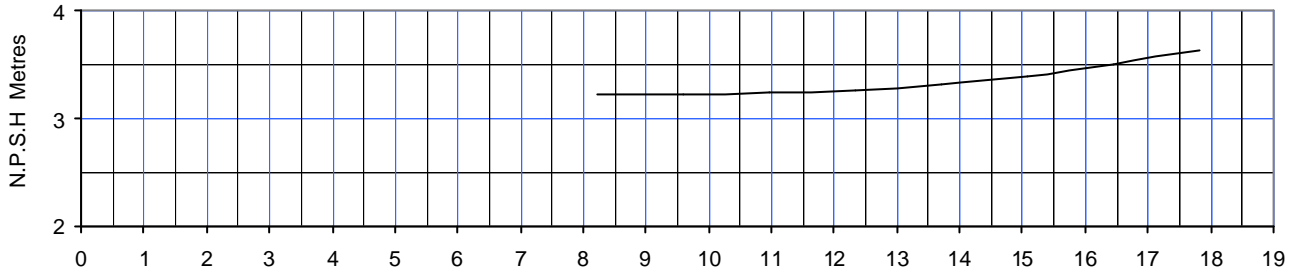
SUCTION DIA 65	DISCHARGE DIA 65	MAX PRESSURE 12 bar	PUMP MODEL GC 65-160A	SPEED 1420
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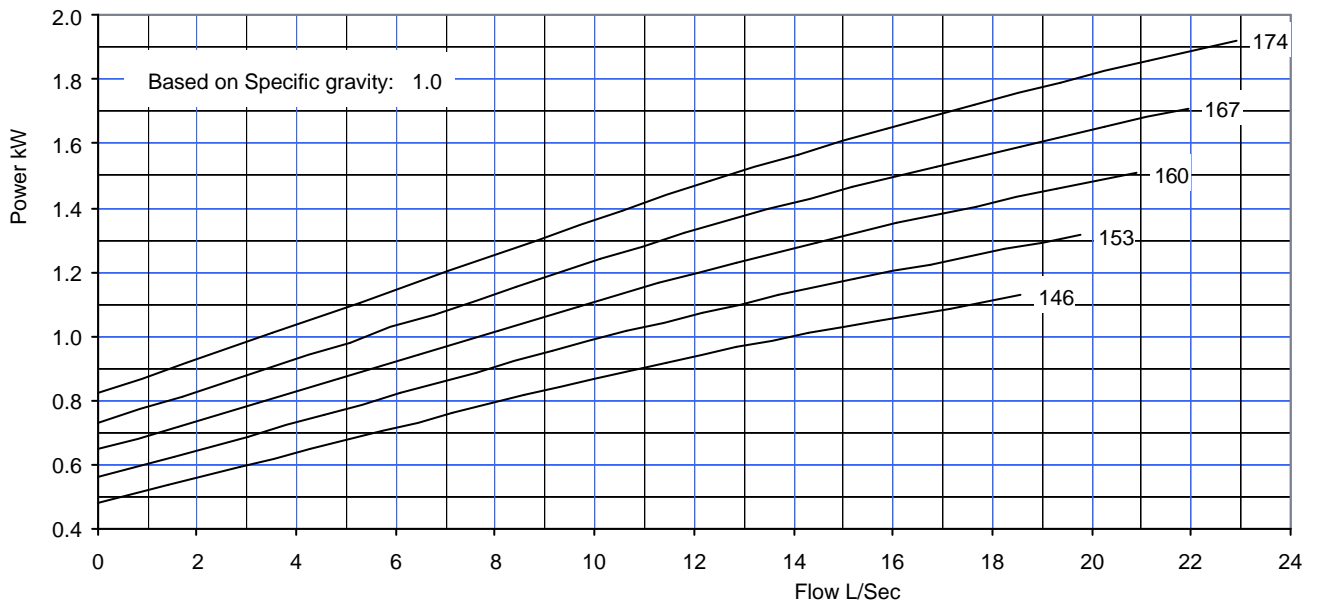
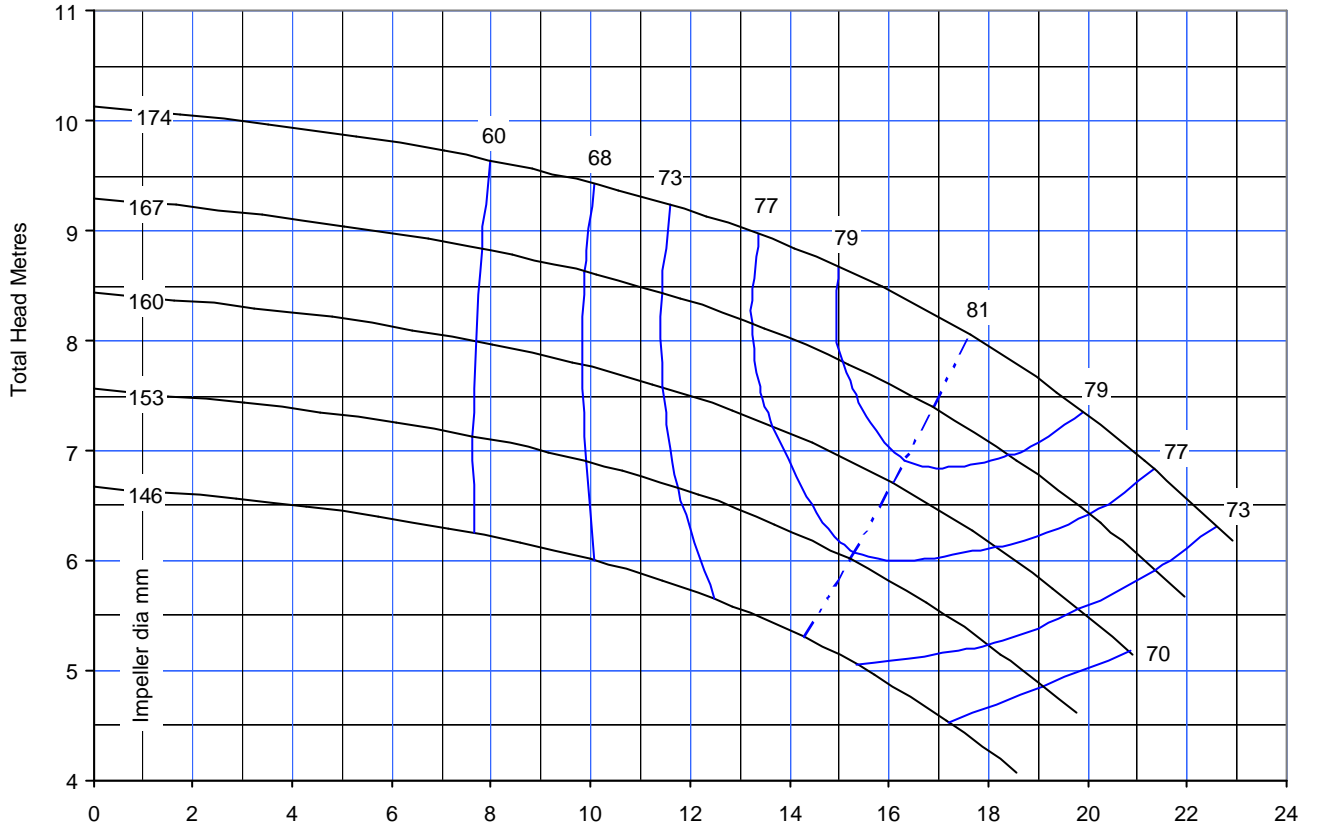
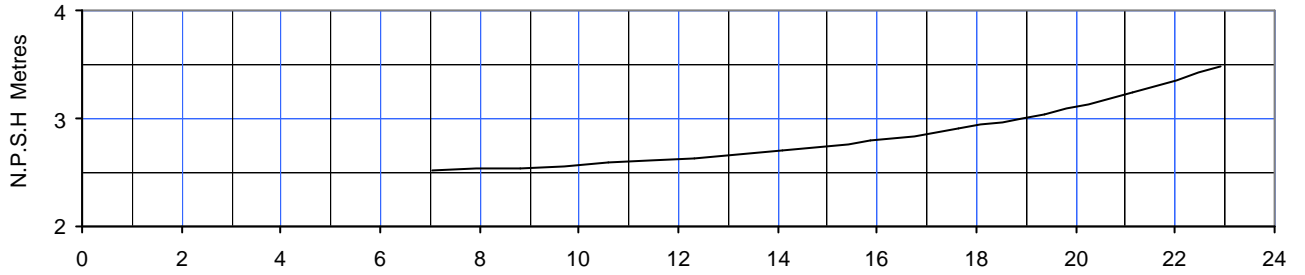
SUCTION DIA 65	DISCHARGE DIA 65	MAX PRESSURE 12 bar	PUMP MODEL GC 65-200A	SPEED 1420
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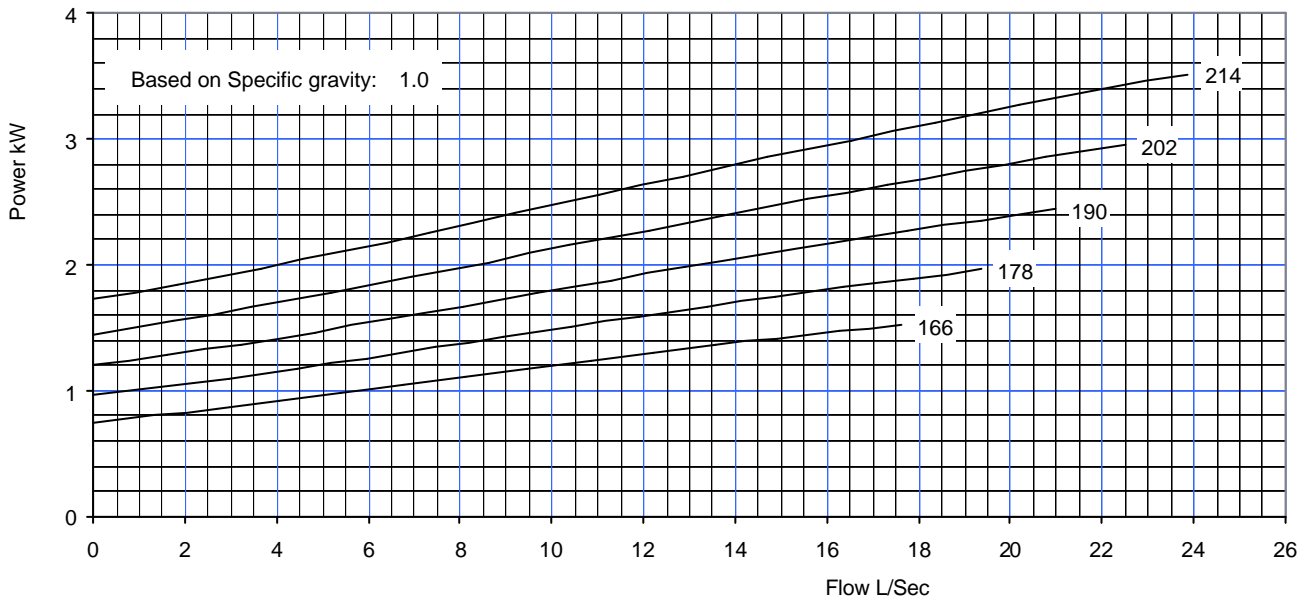
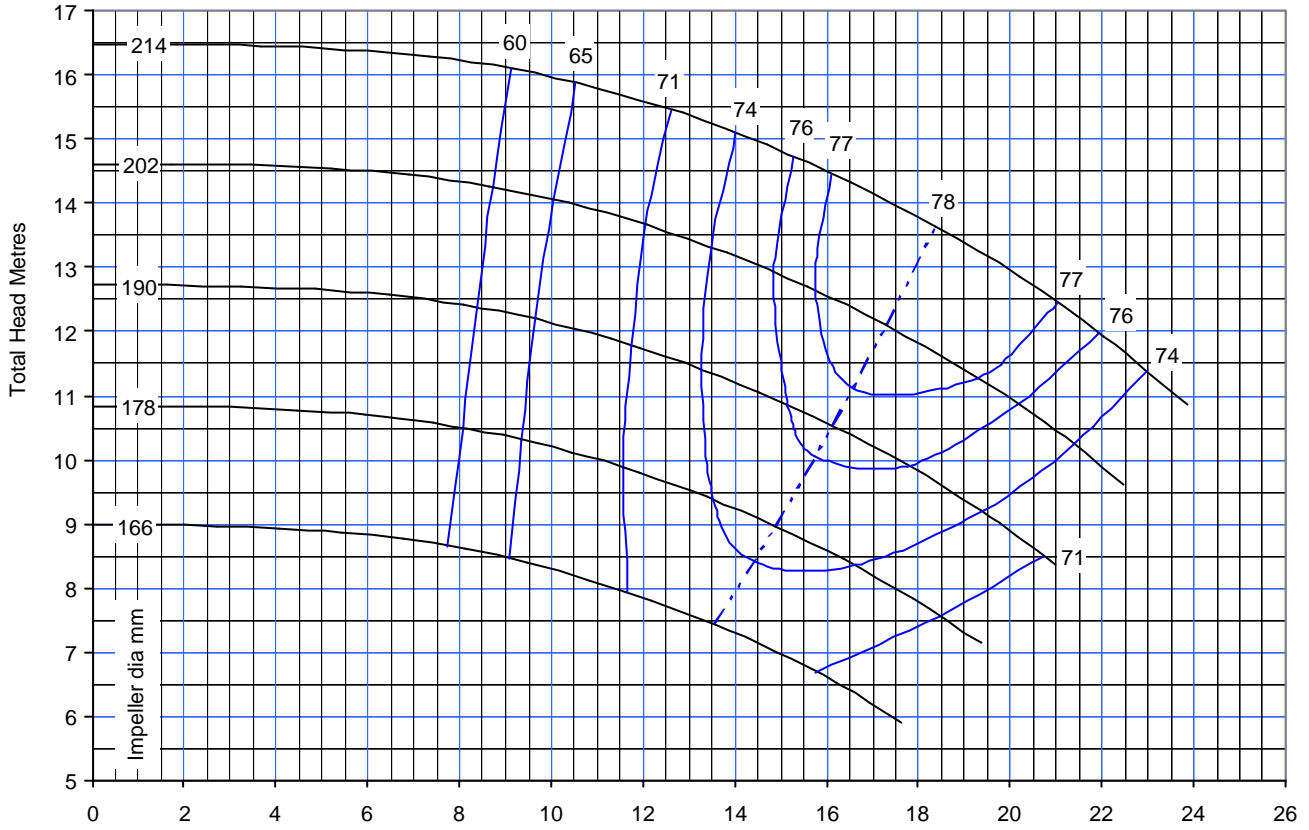
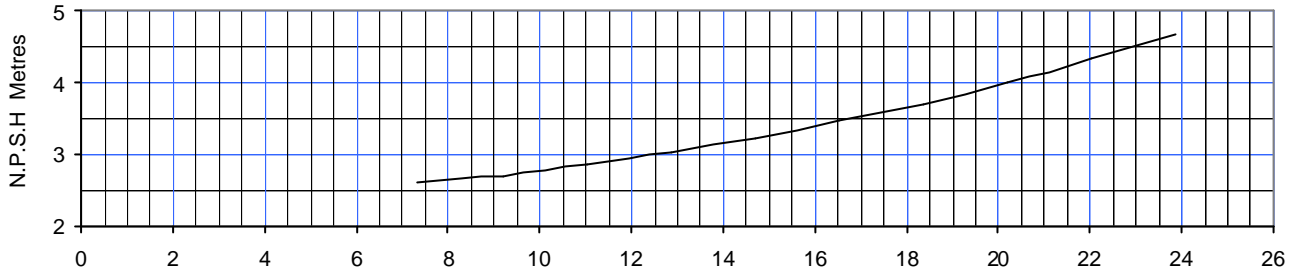
SUCTION DIA 65	DISCHARGE DIA 65	MAX PRESSURE 12 bar	PUMP MODEL GC 65-250A	SPEED 1440
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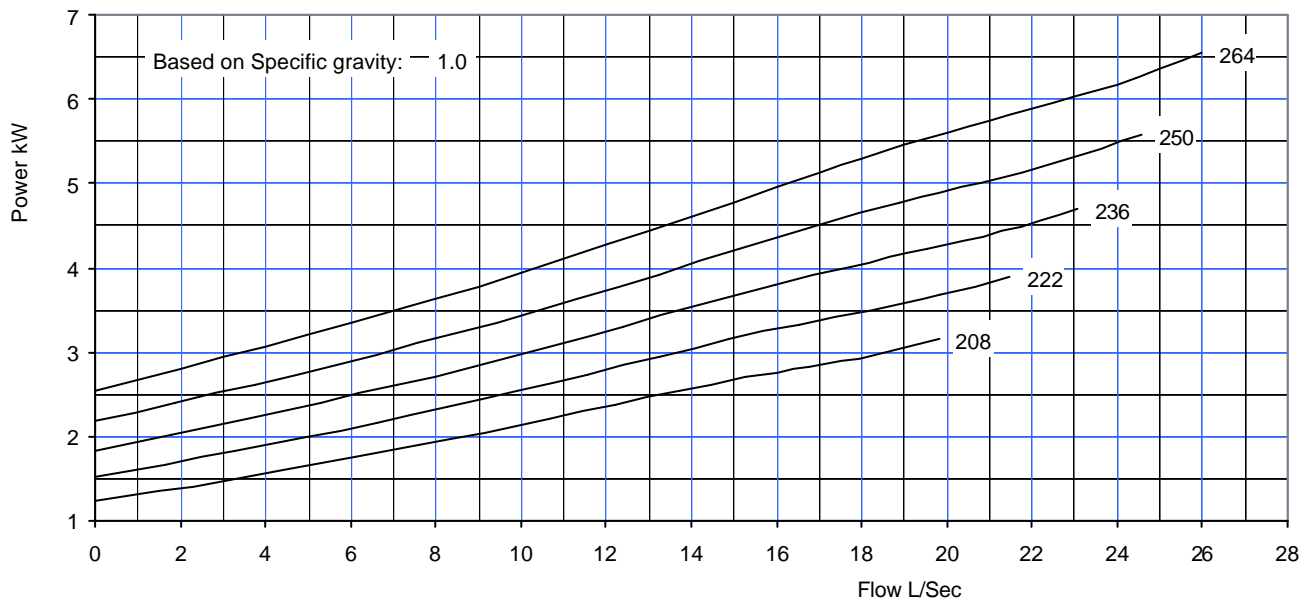
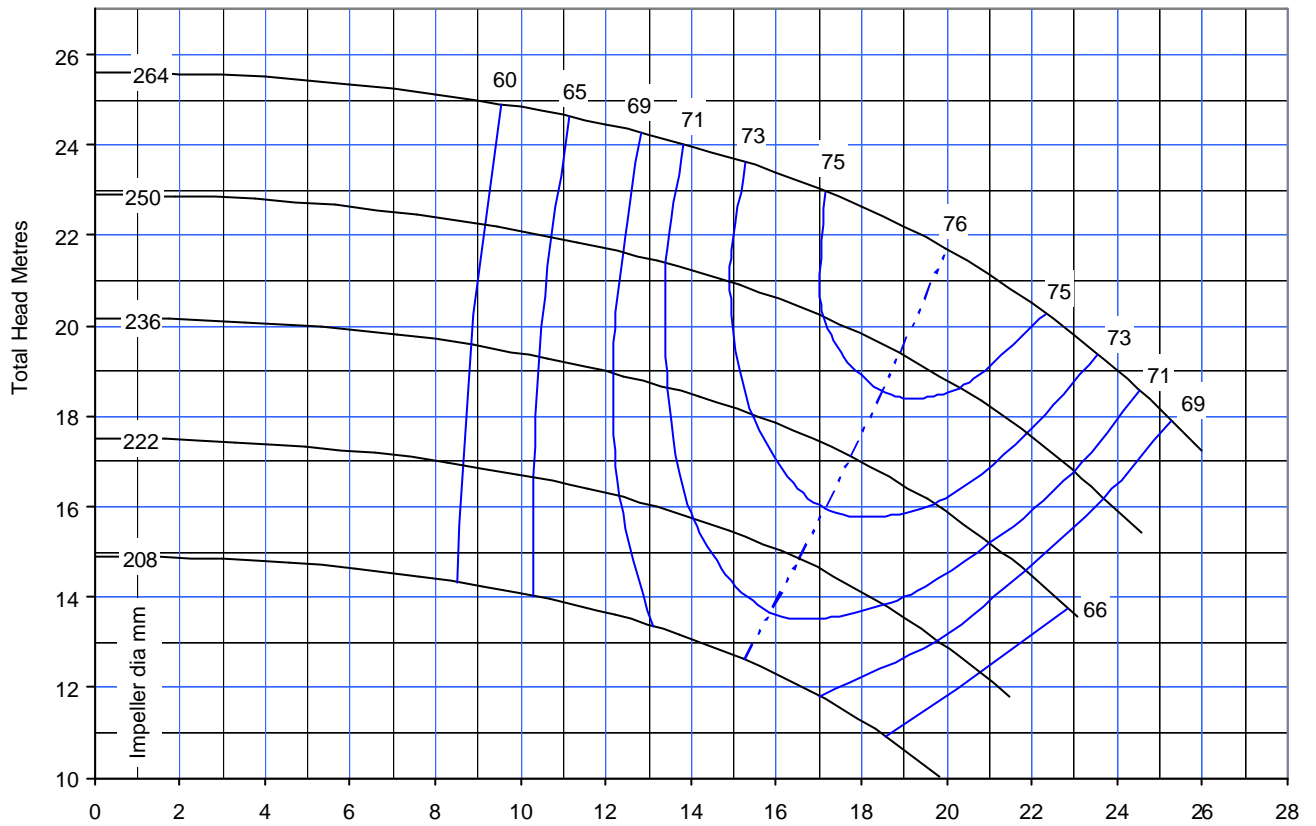
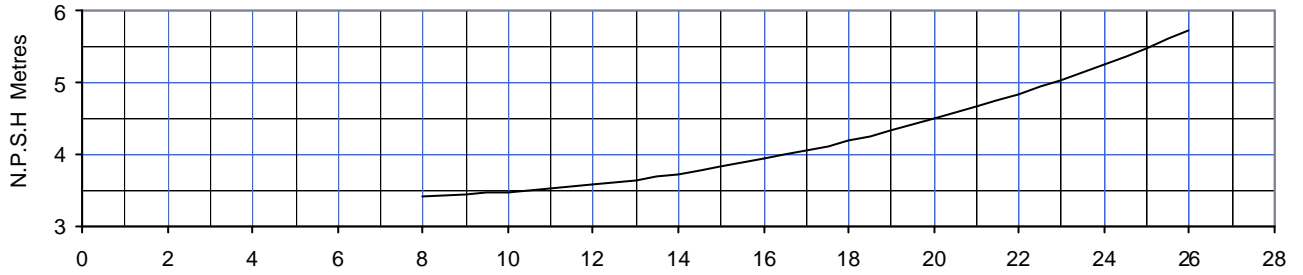
SUCTION DIA 65	DISCHARGE DIA 65	MAX PRESSURE 12 bar	PUMP MODEL GC 65-315A	SPEED 1450
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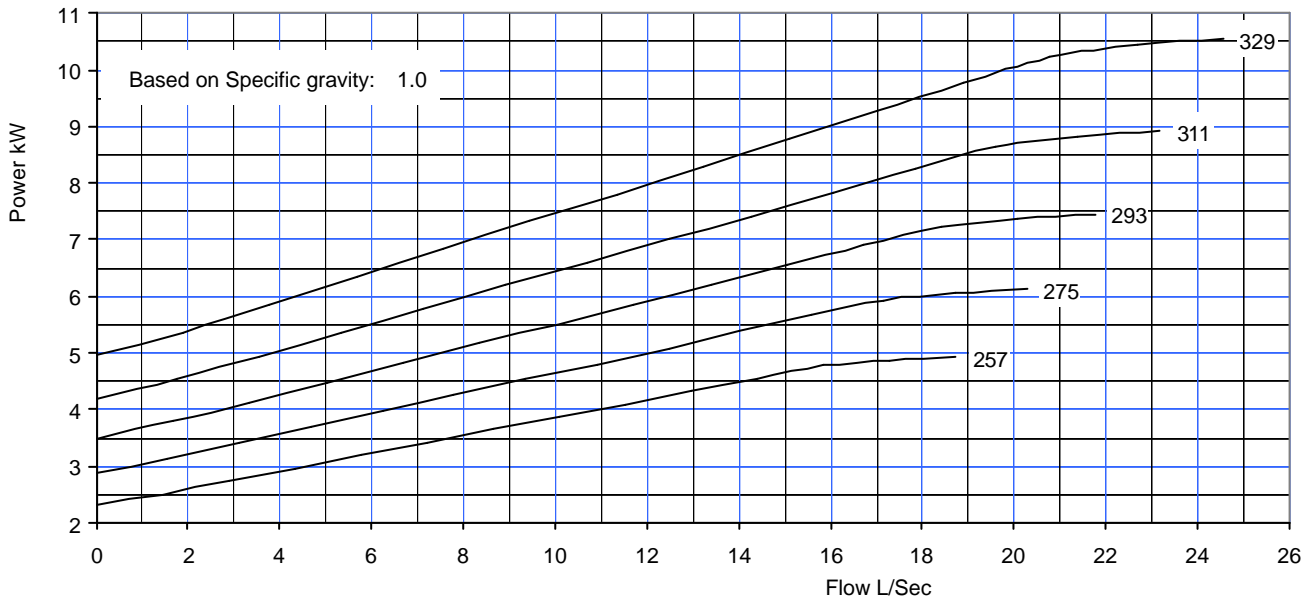
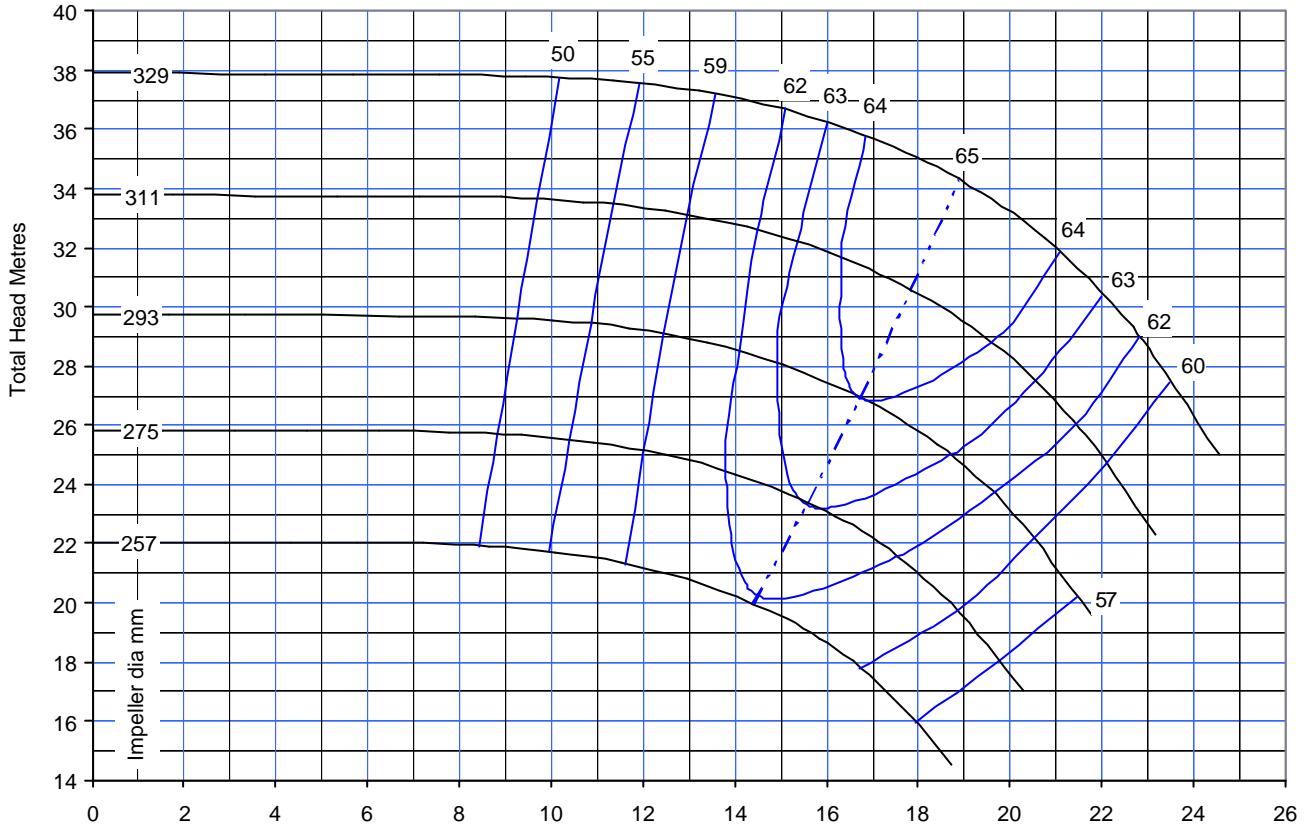
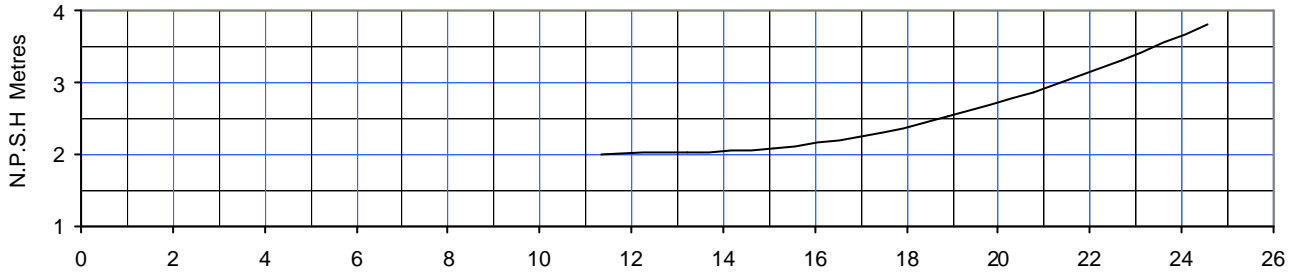
SUCTION DIA 80	DISCHARGE DIA 80	MAX PRESSURE 12 bar	PUMP MODEL GC80-160	SPEED 1420
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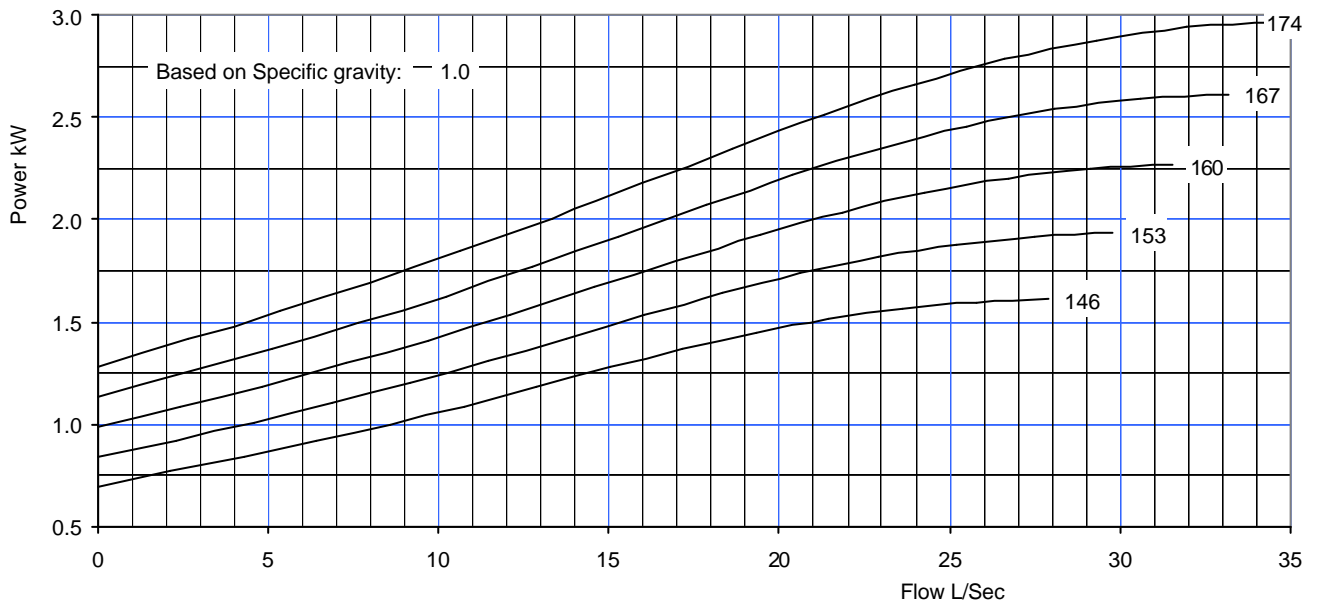
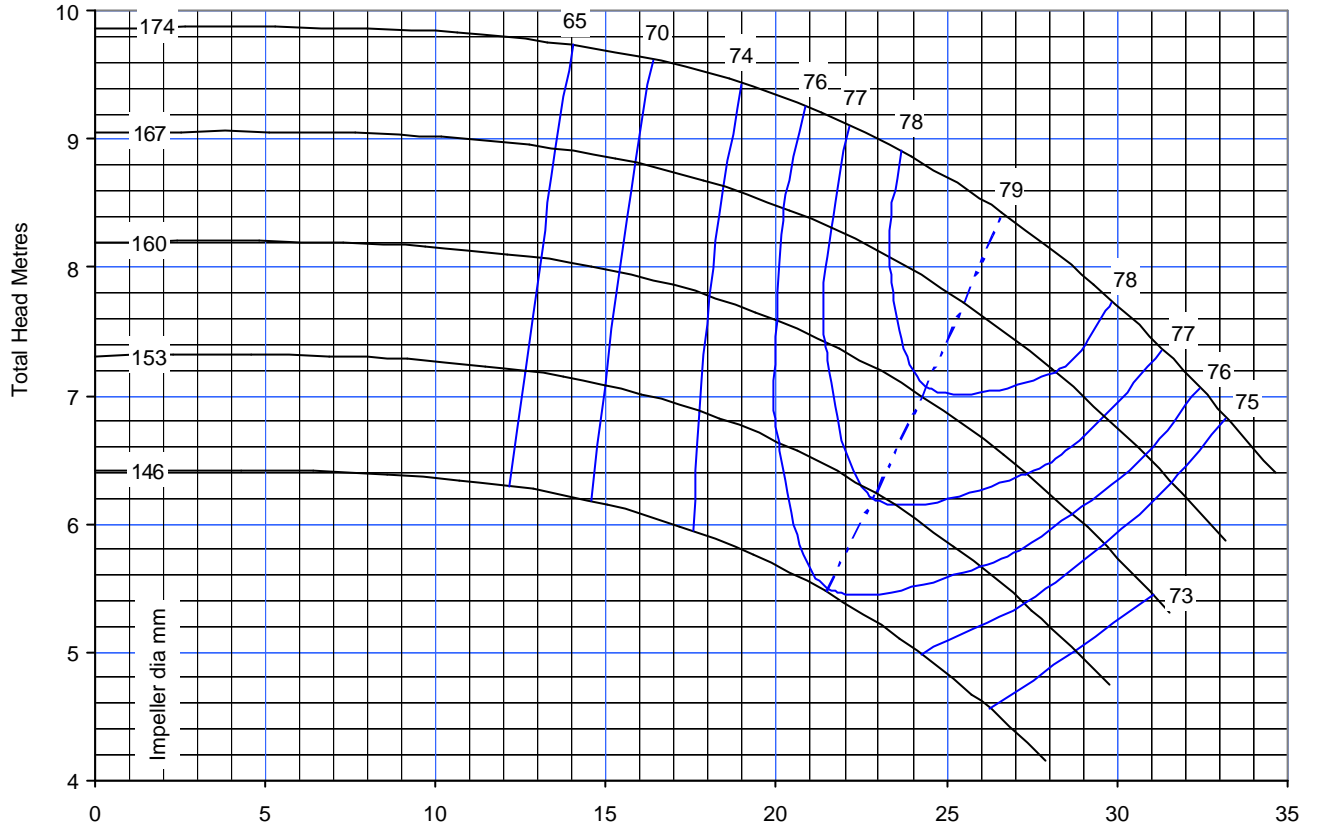
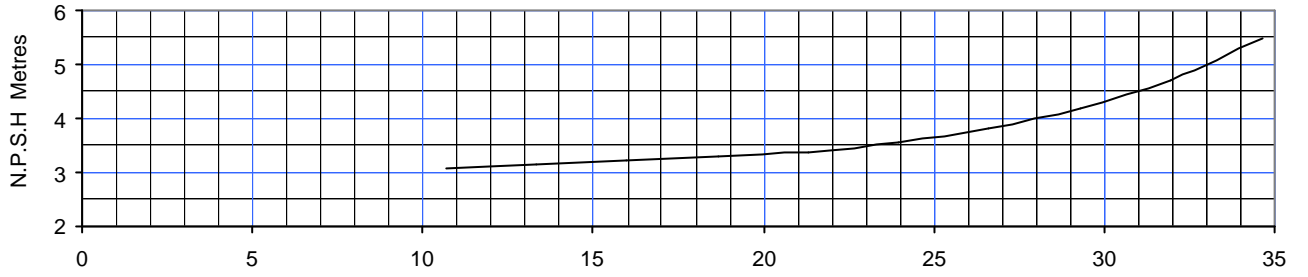
SUCTION DIA 80	DISCHARGE DIA 80	MAX PRESSURE 12 bar	PUMP MODEL GC 80-200	SPEED 1440
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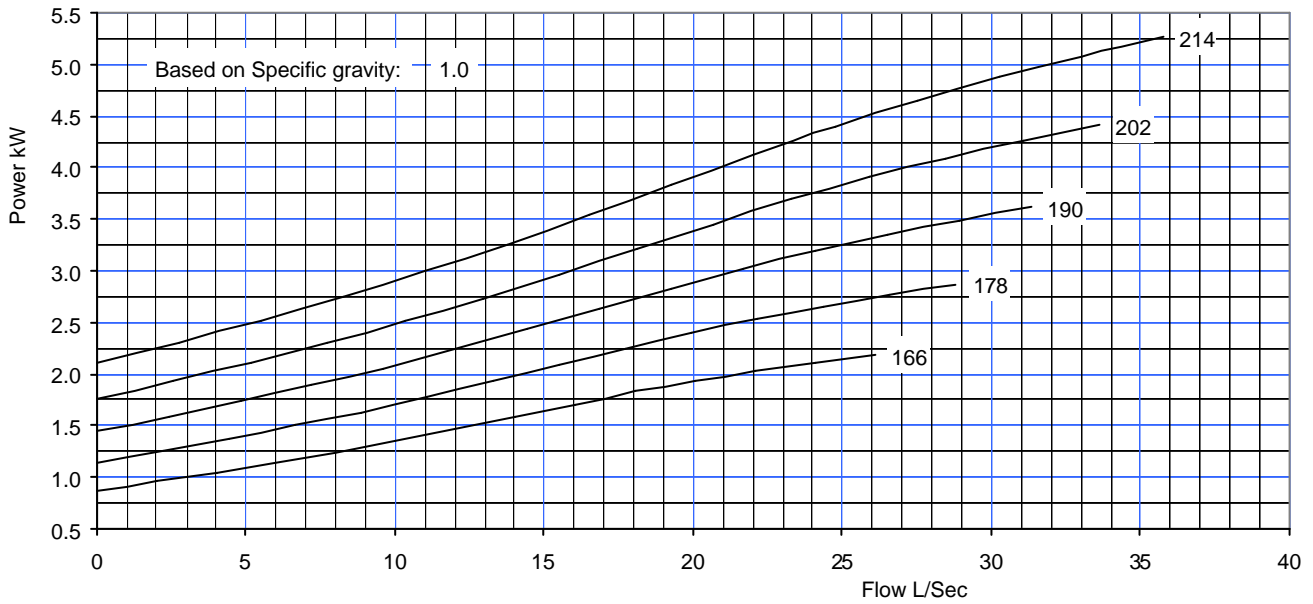
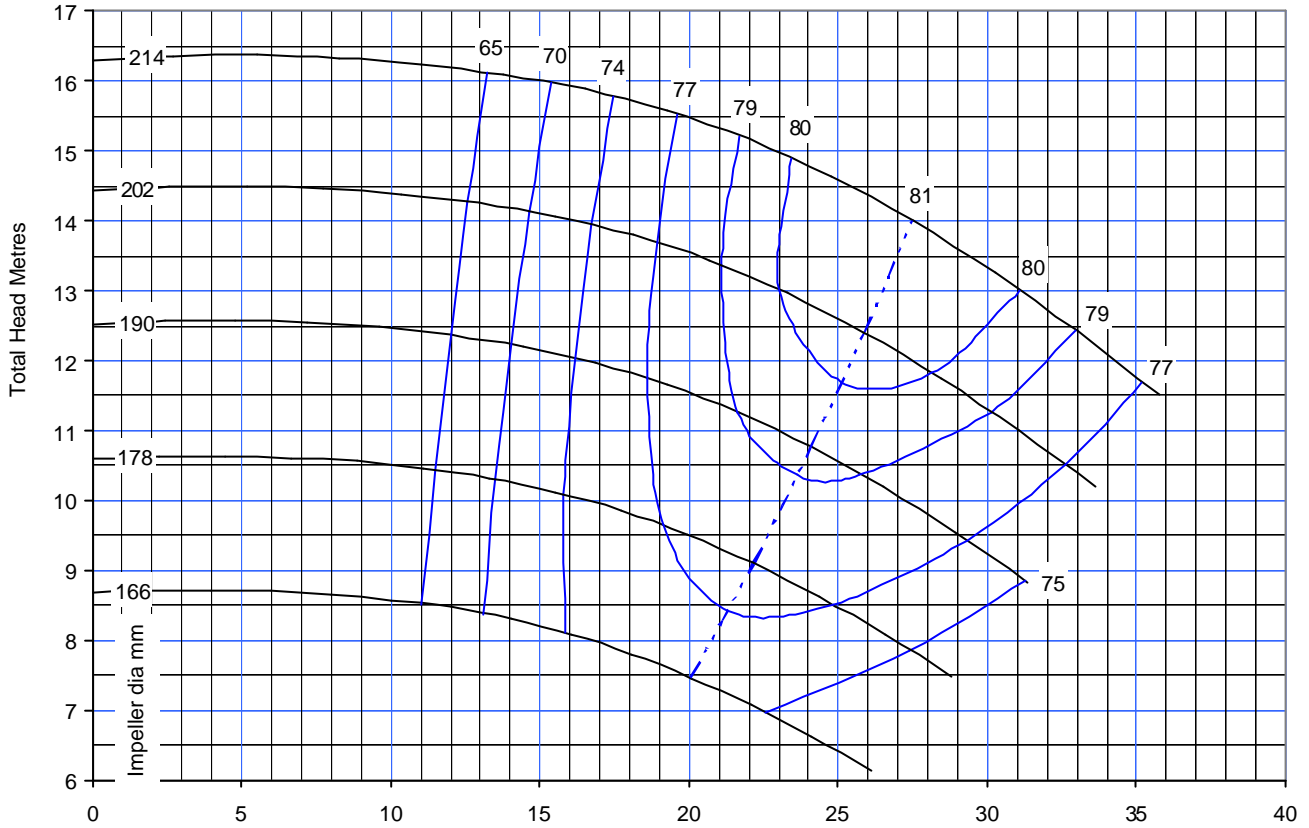
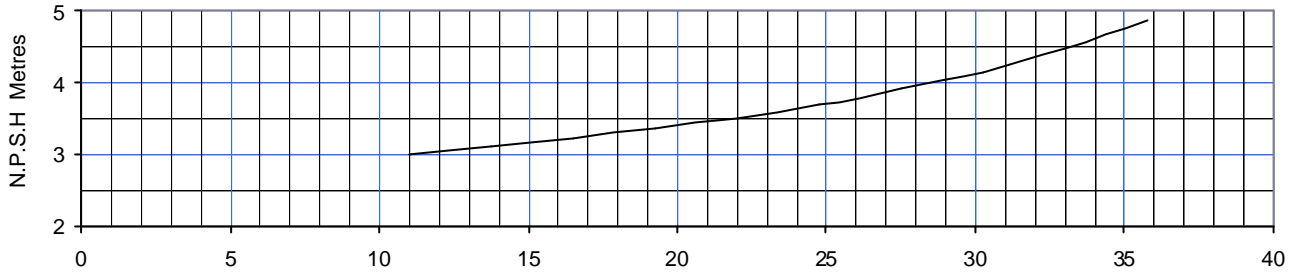
SUCTION DIA 80	DISCHARGE DIA 80	MAX PRESSURE 12 bar	PUMP MODEL GC 80-250	SPEED 1450
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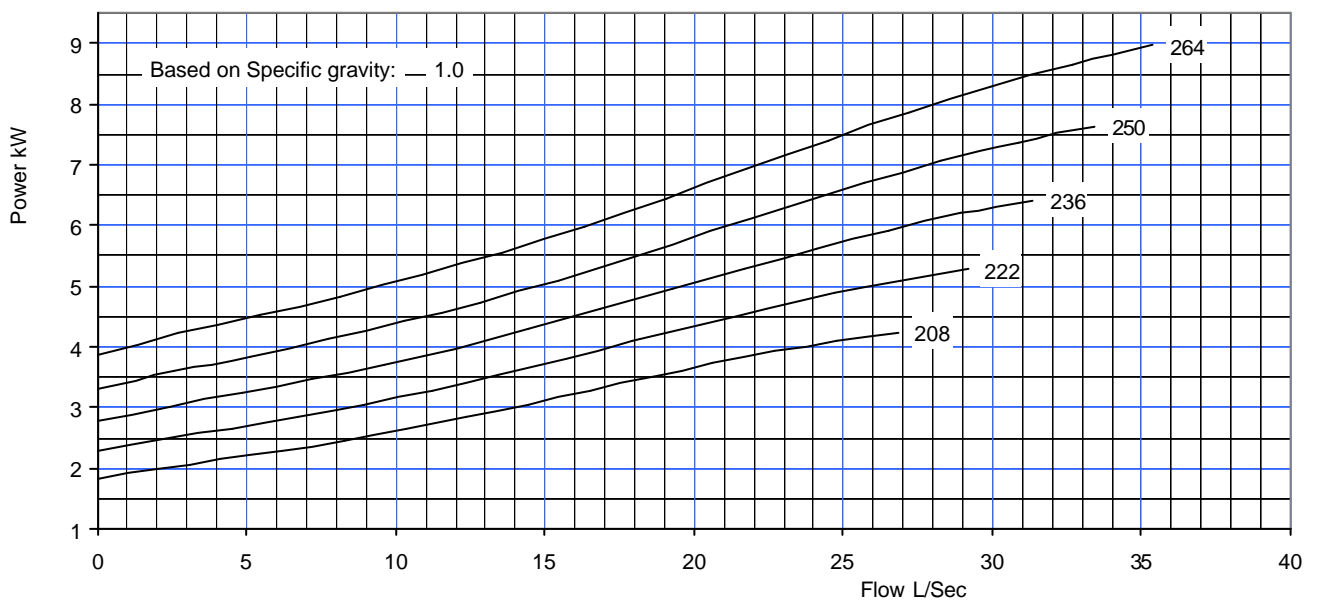
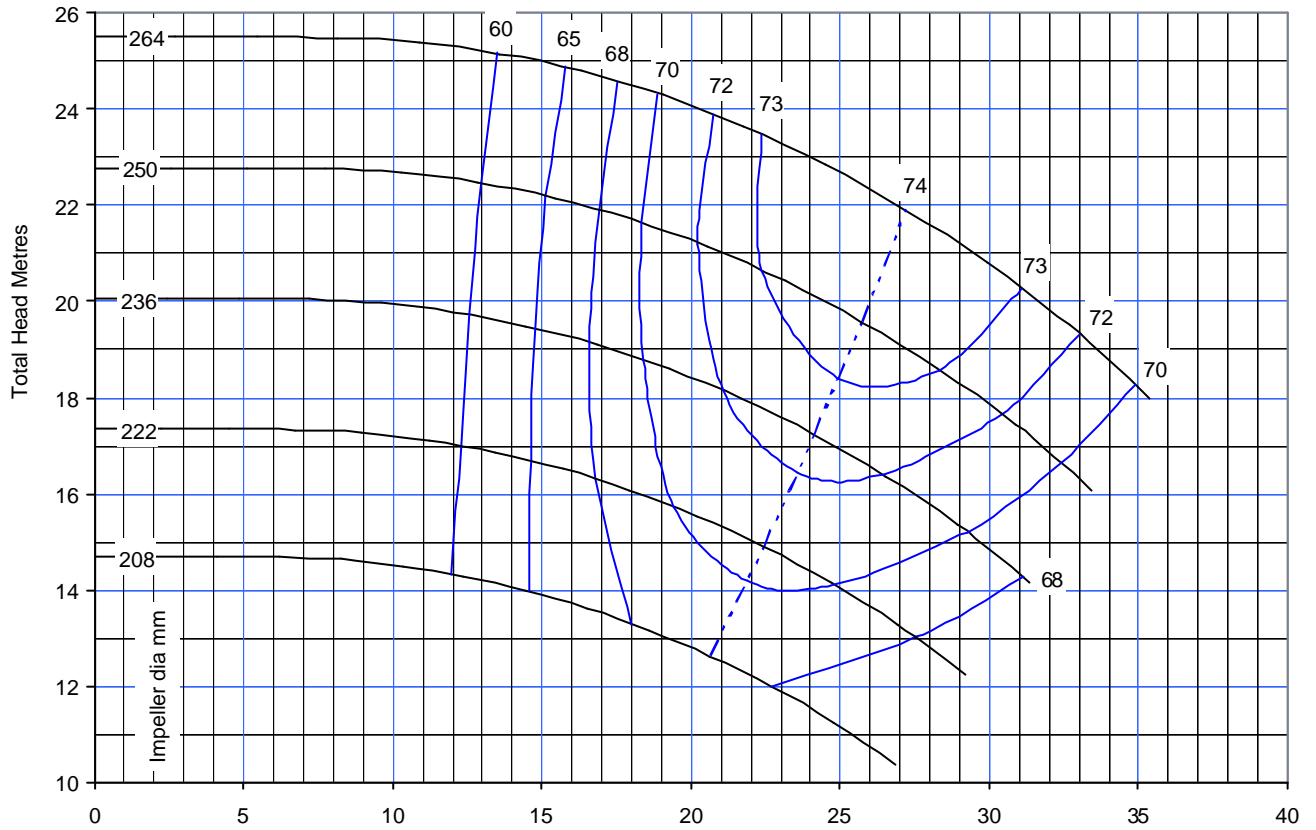
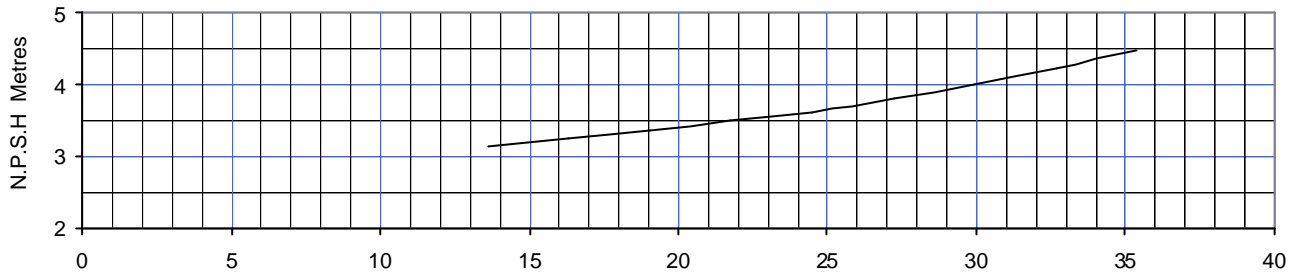
SUCTION DIA 80	DISCHARGE DIA 80	MAX PRESSURE 12 bar	PUMP MODEL GC 80-315	SPEED 1450
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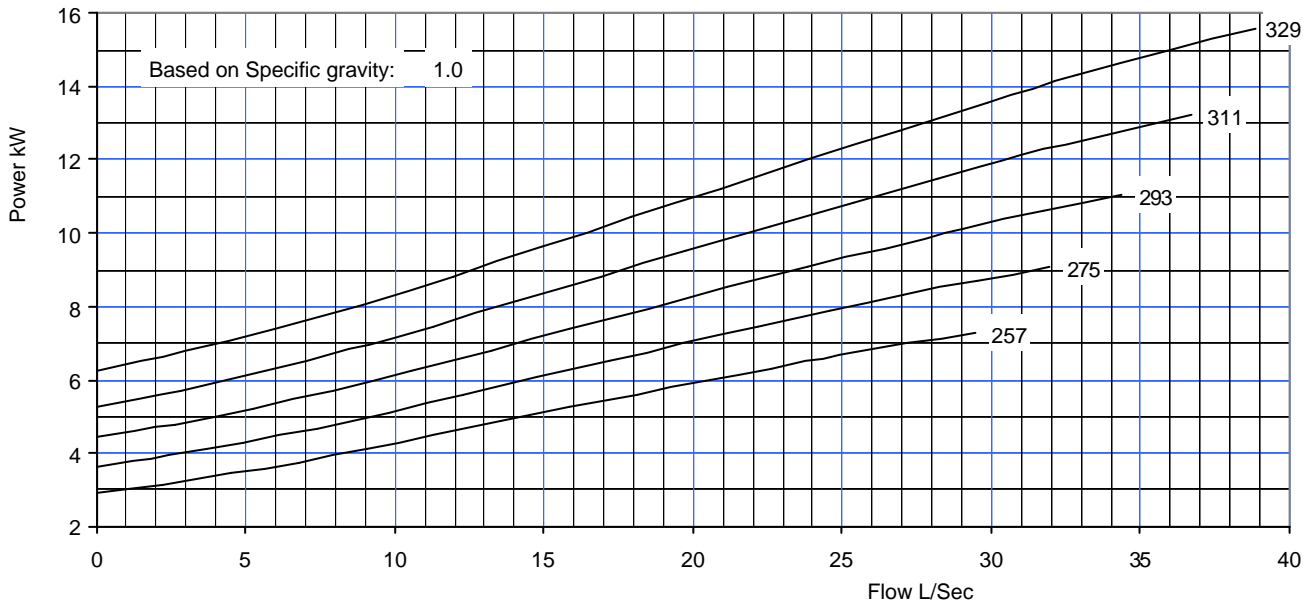
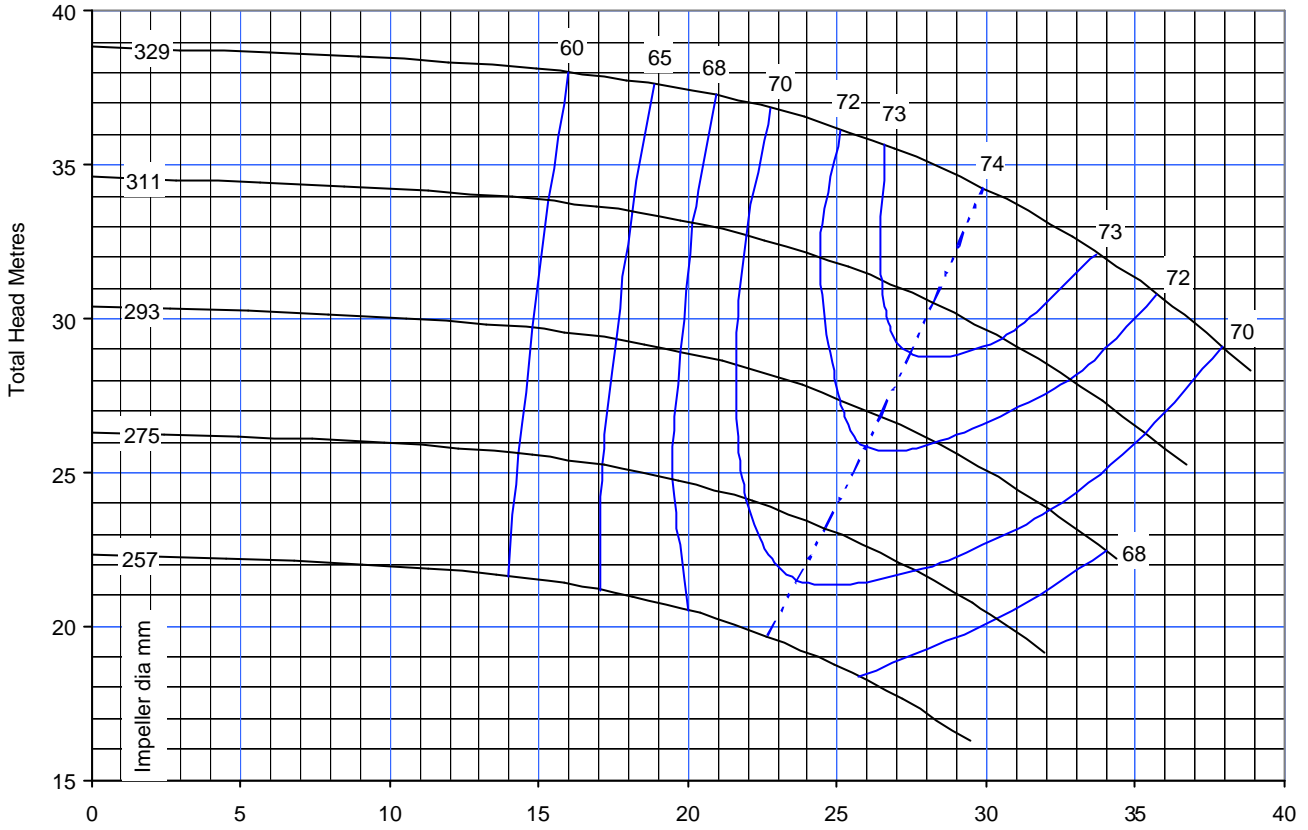
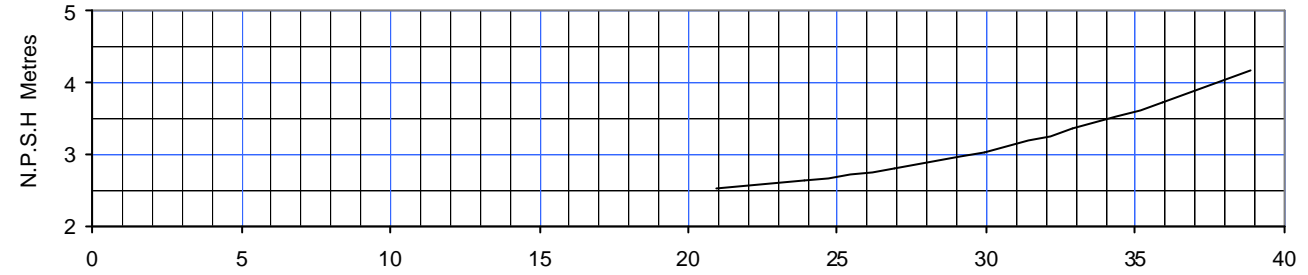
SUCTION DIA 100	DISCHARGE DIA 100	MAX PRESSURE 12 bar	PUMP MODEL GC 100-160	SPEED 1420
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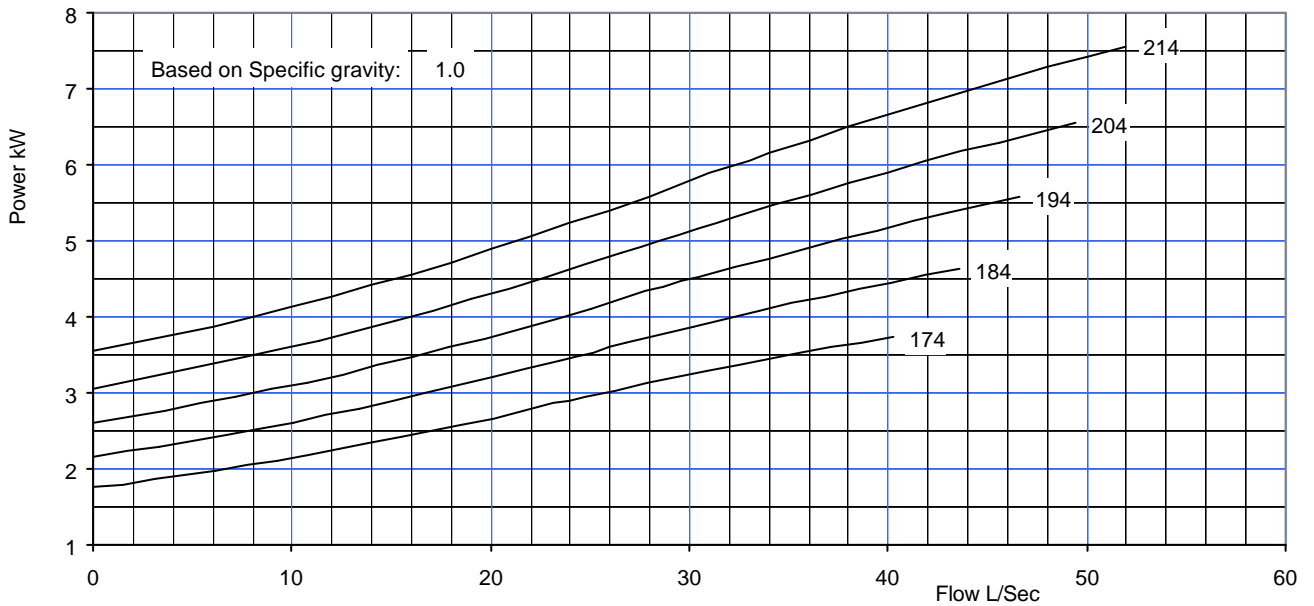
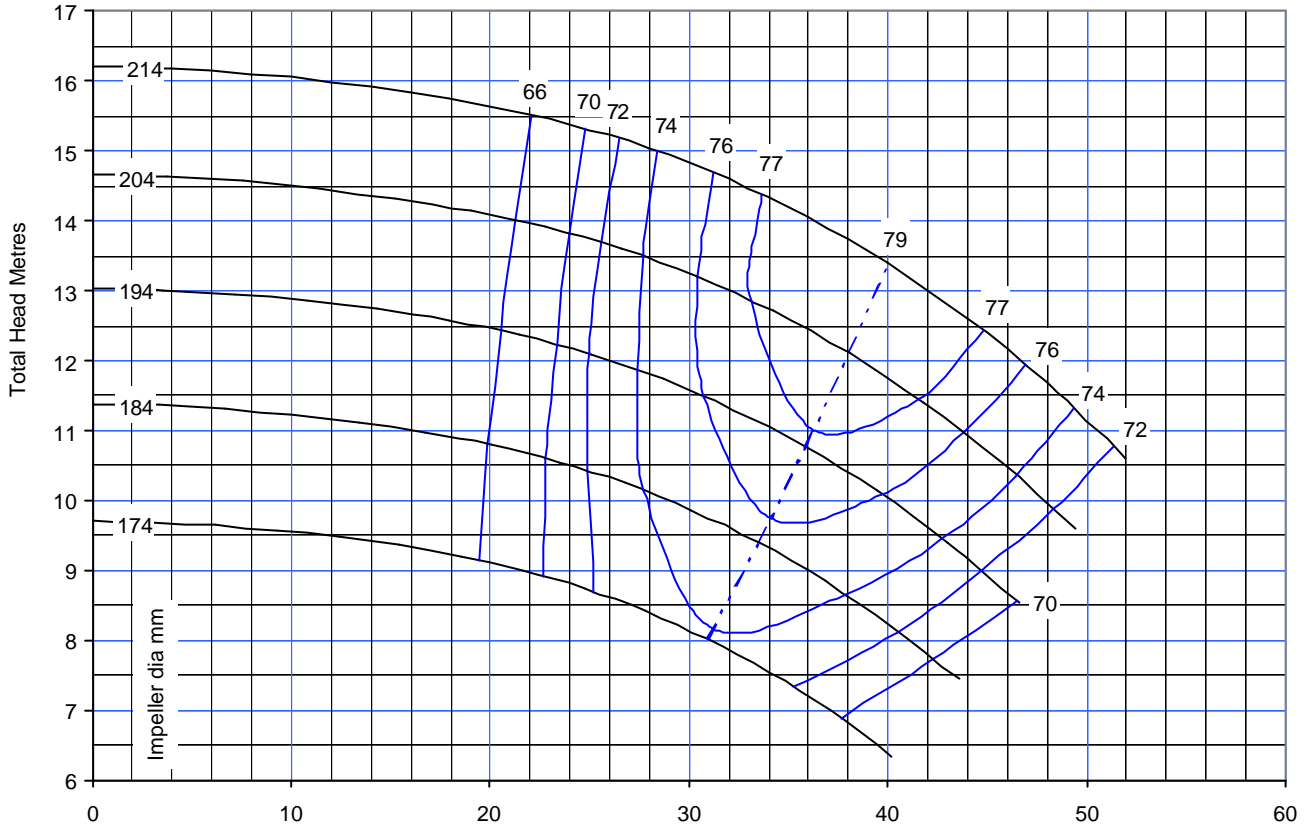
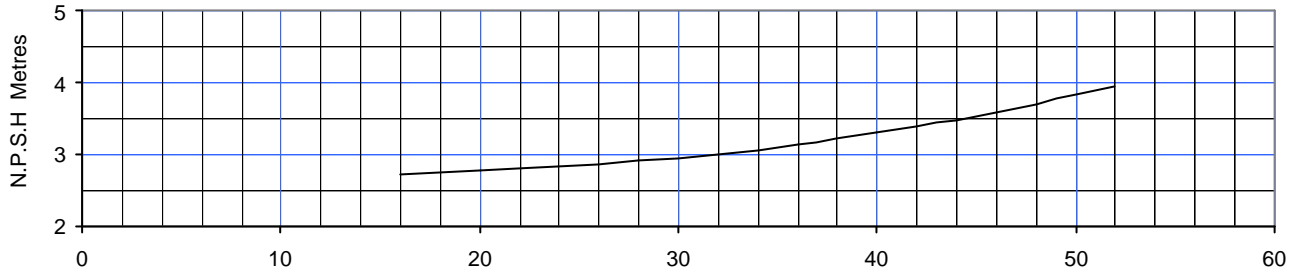
SUCTION DIA 100	DISCHARGE DIA 100	MAX PRESSURE 12 bar	PUMP MODEL GC 100-200	SPEED 1450
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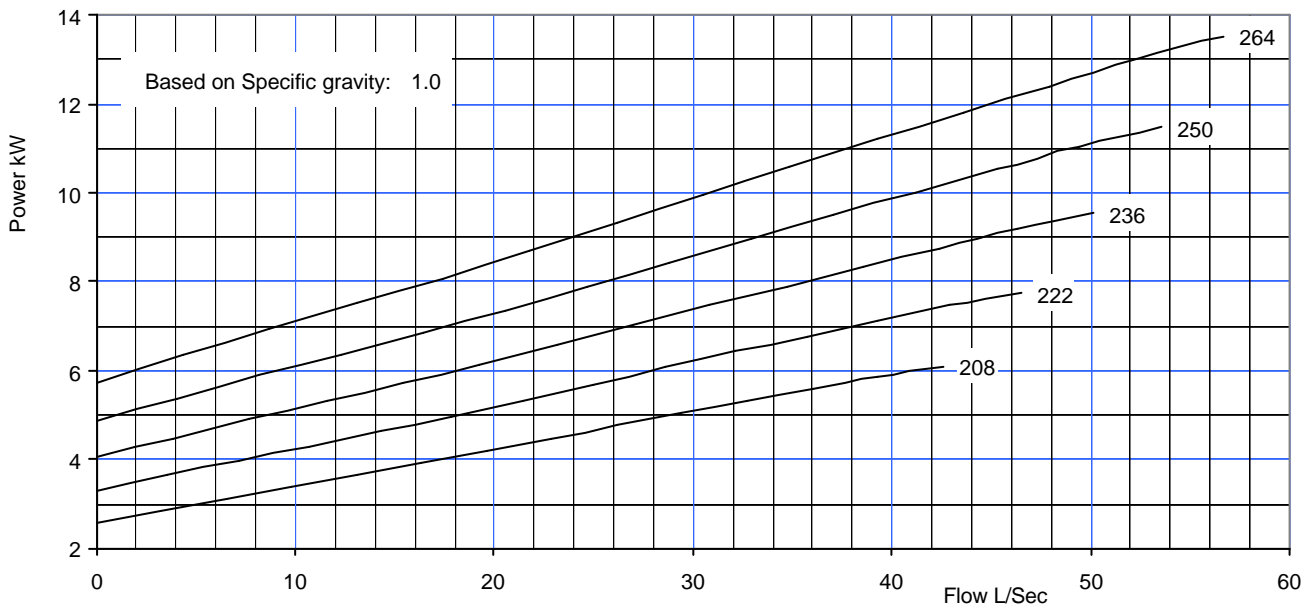
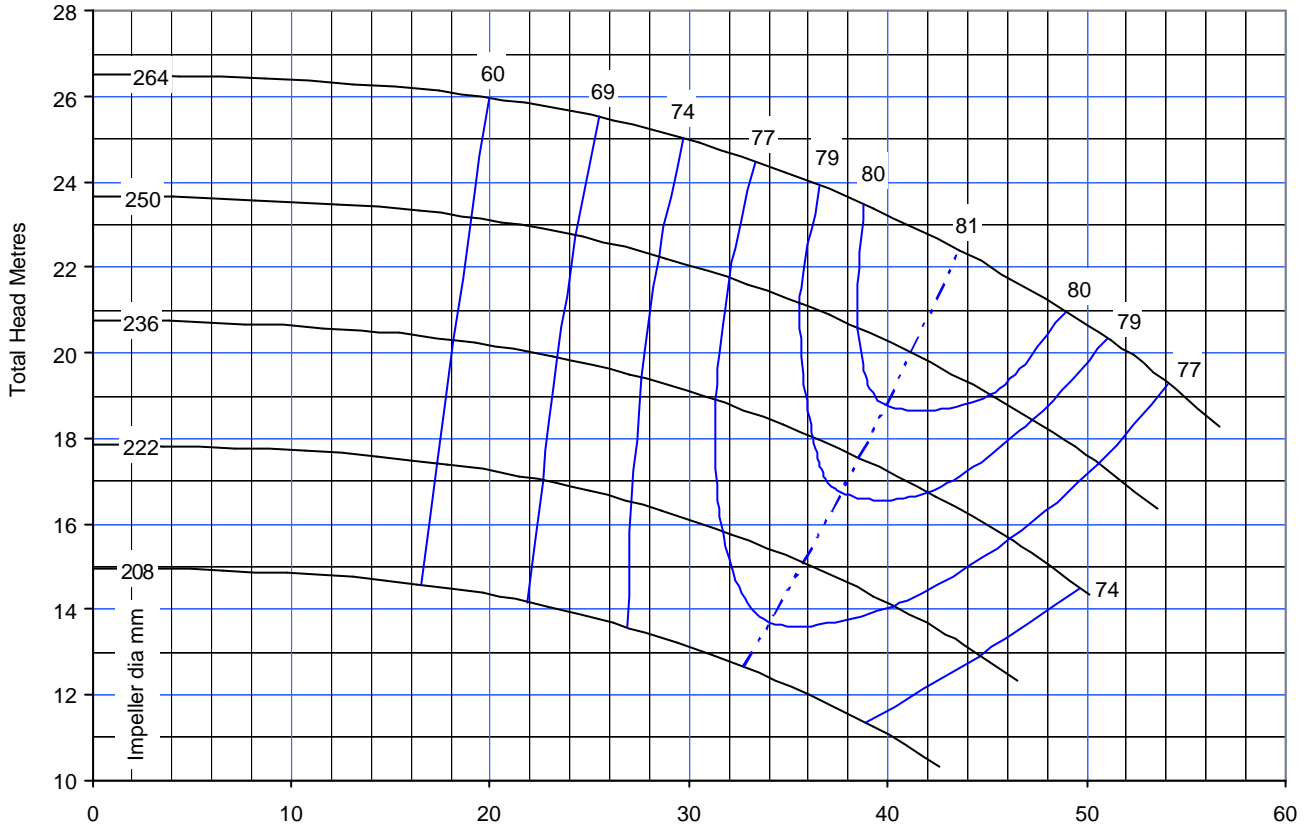
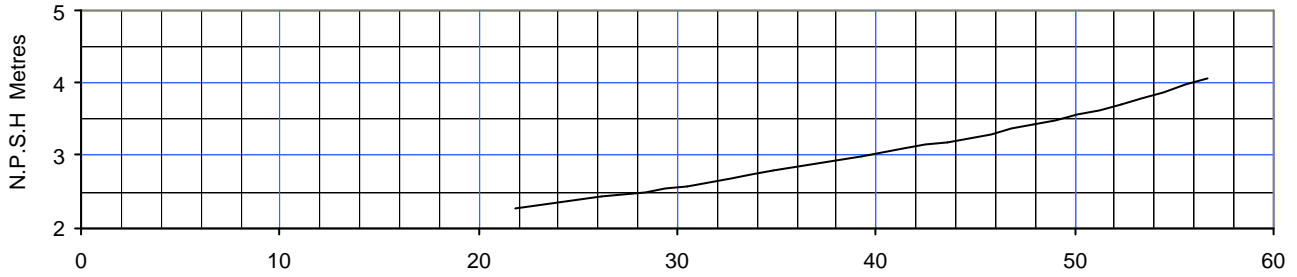
SUCTION DIA 100	DISCHARGE DIA 100	MAX PRESSURE 12 bar	PUMP MODEL GC 100-250	SPEED 1450
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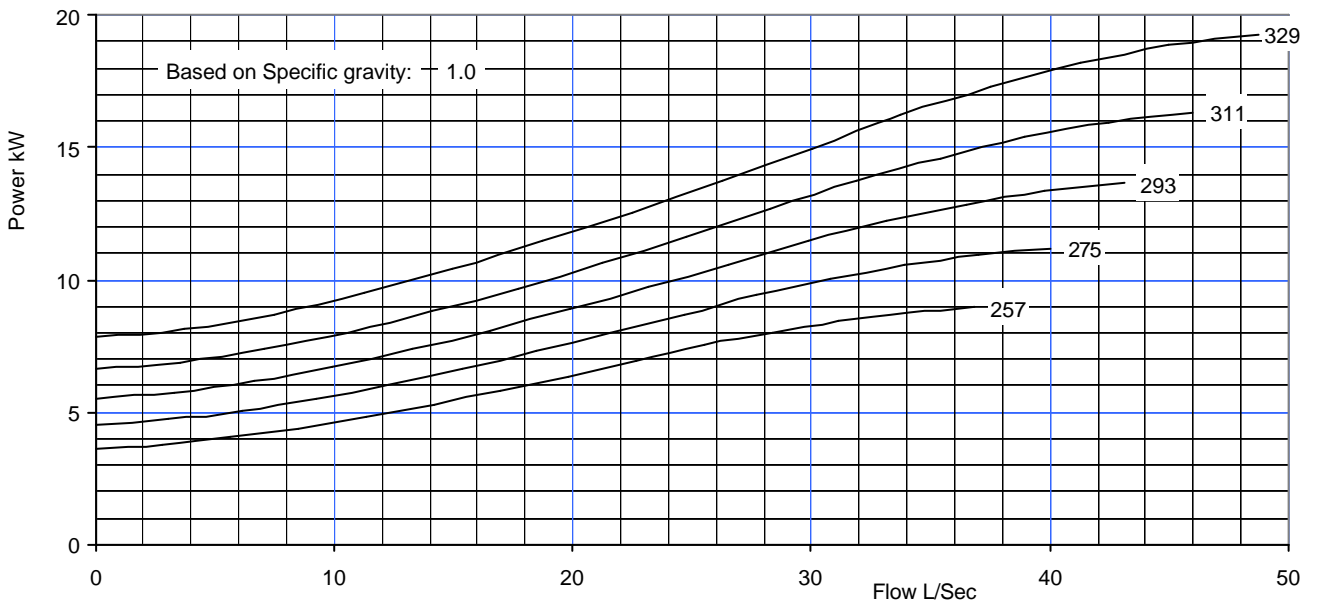
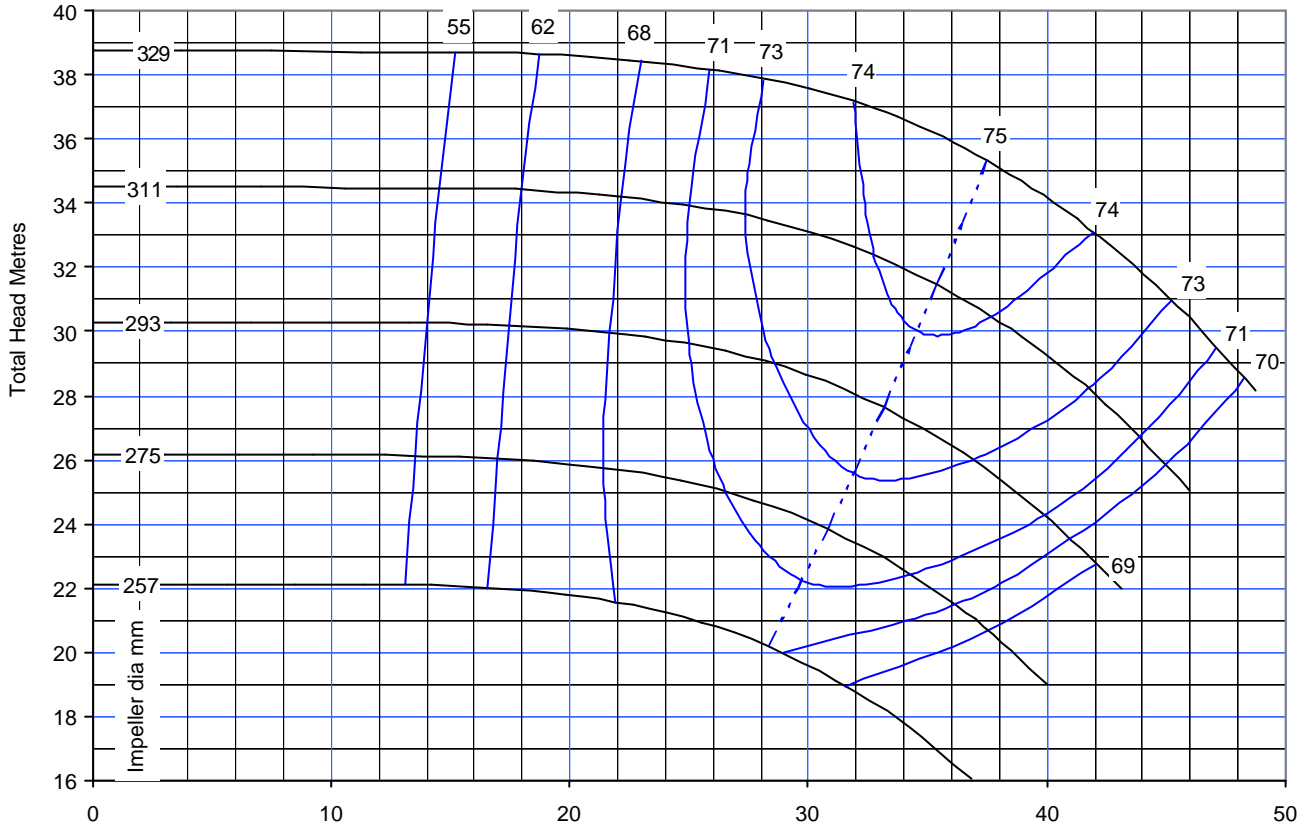
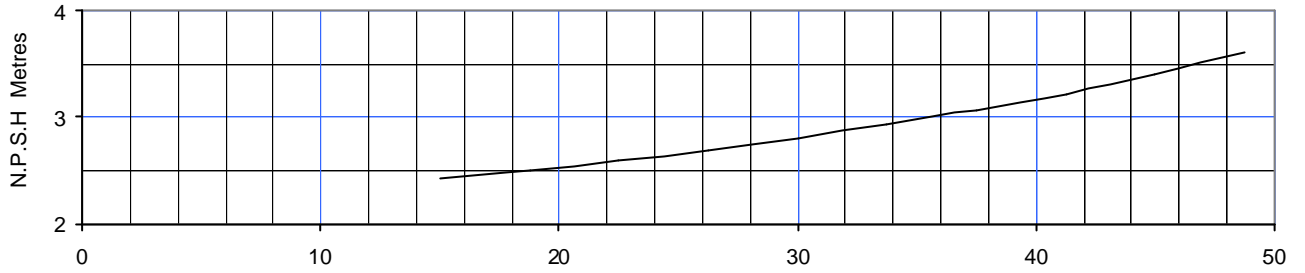
SUCTION DIA 100	DISCHARGE DIA 100	MAX PRESSURE 12 bar	PUMP MODEL GC 100-315	SPEED 1470
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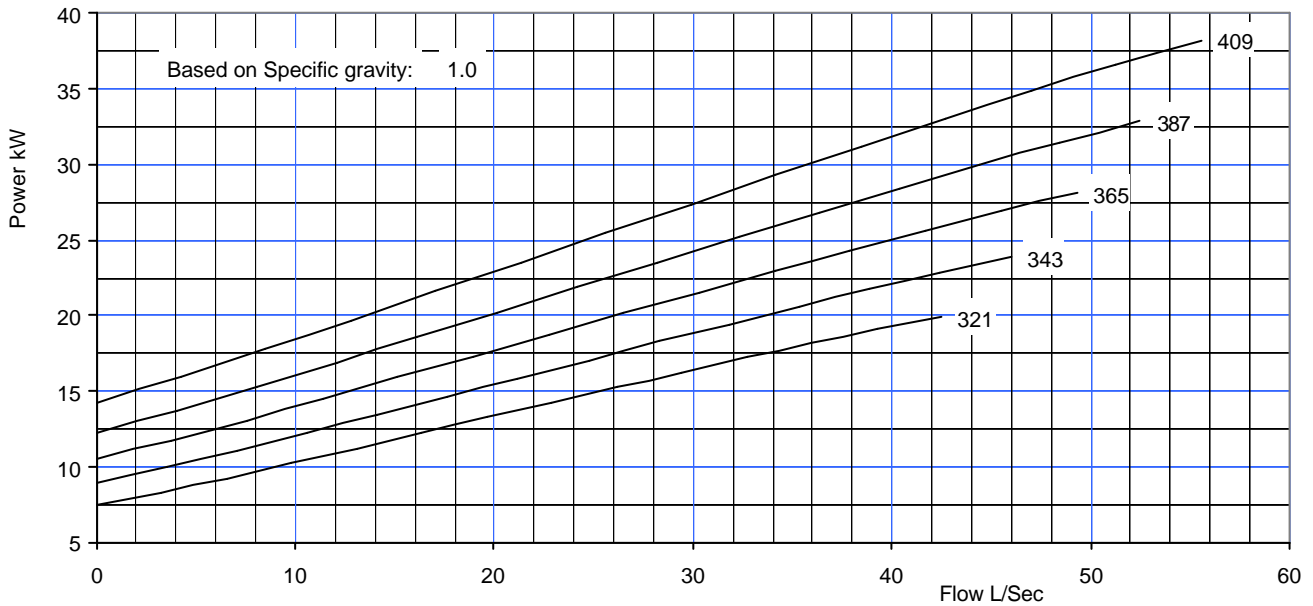
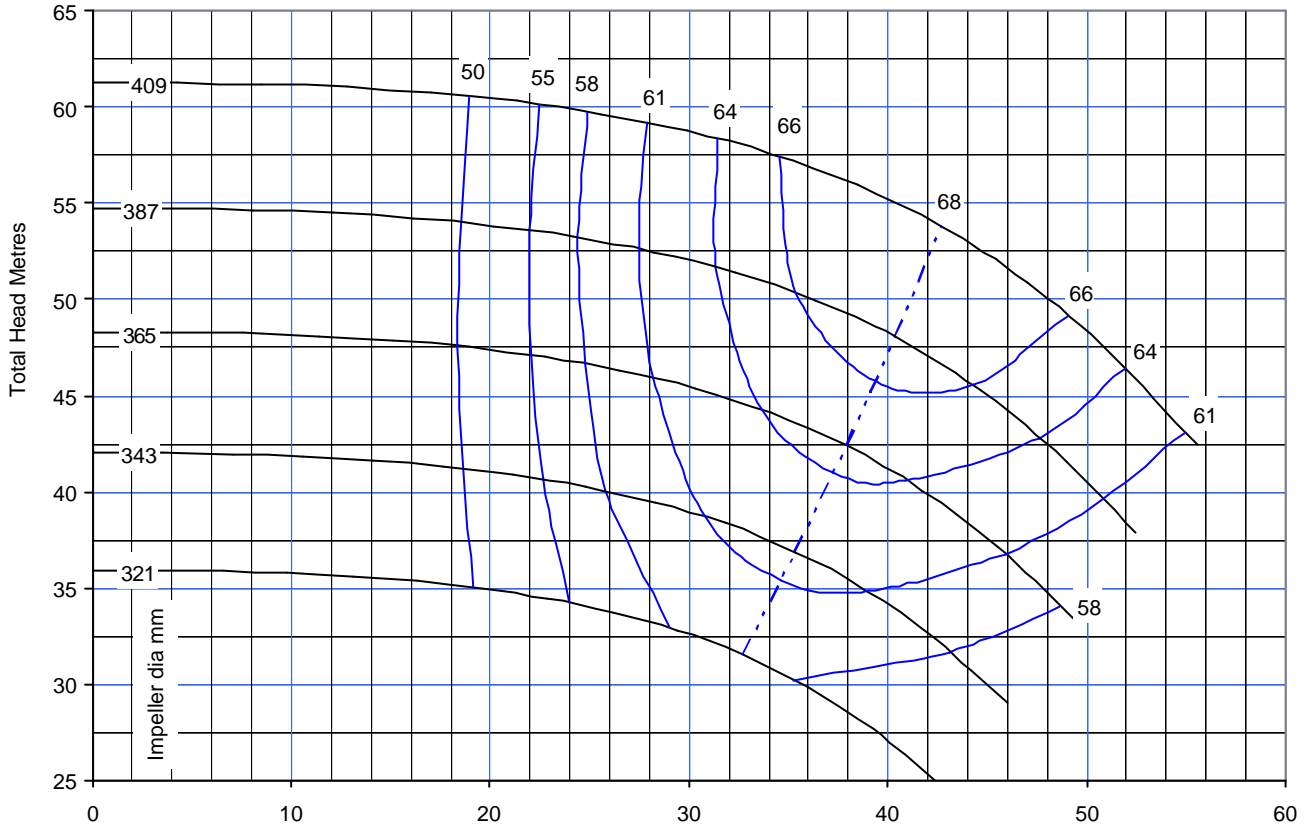
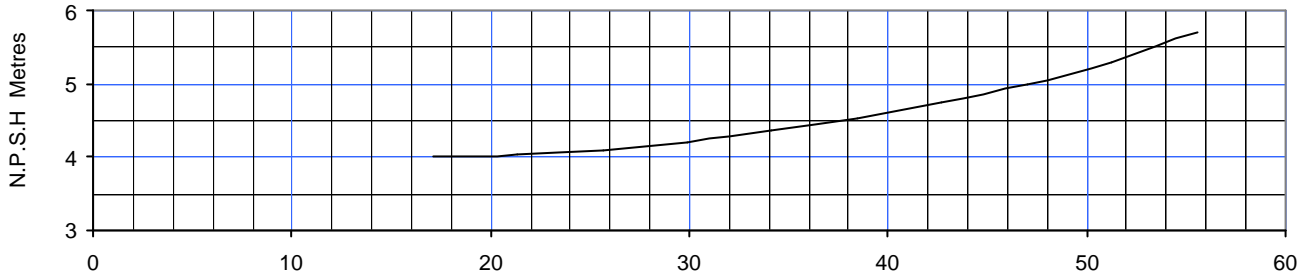
SUCTION DIA 125	DISCHARGE DIA 125	MAX PRESSURE 12 bar	PUMP MODEL GC 125-200	SPEED 1450
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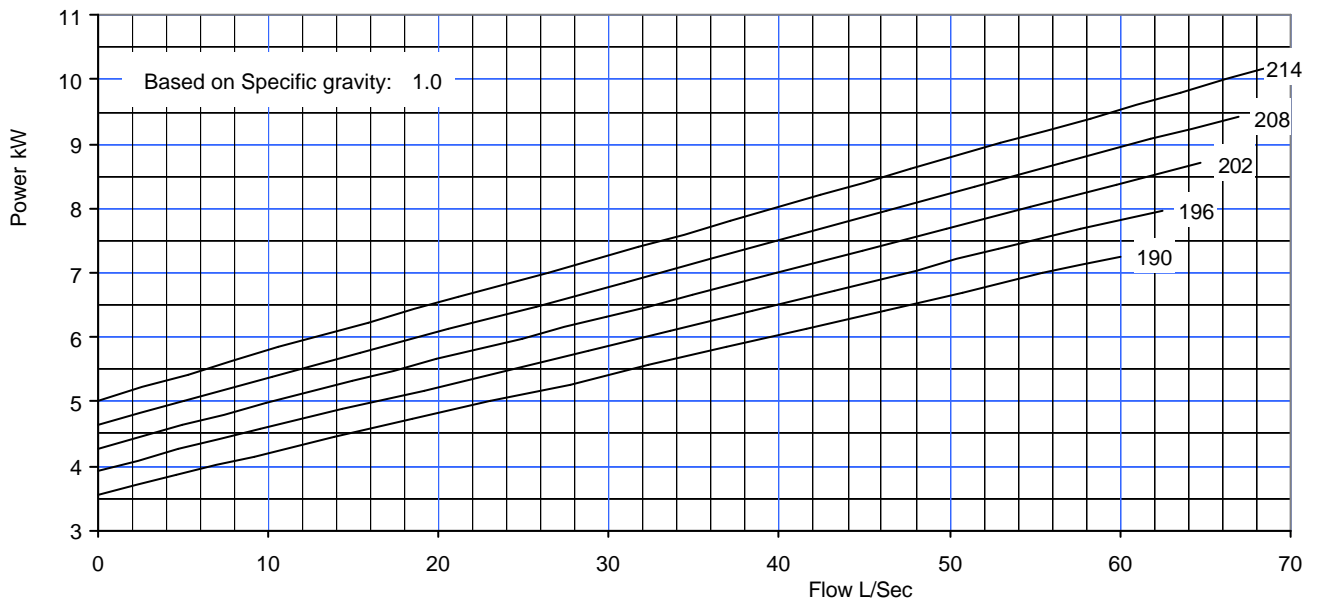
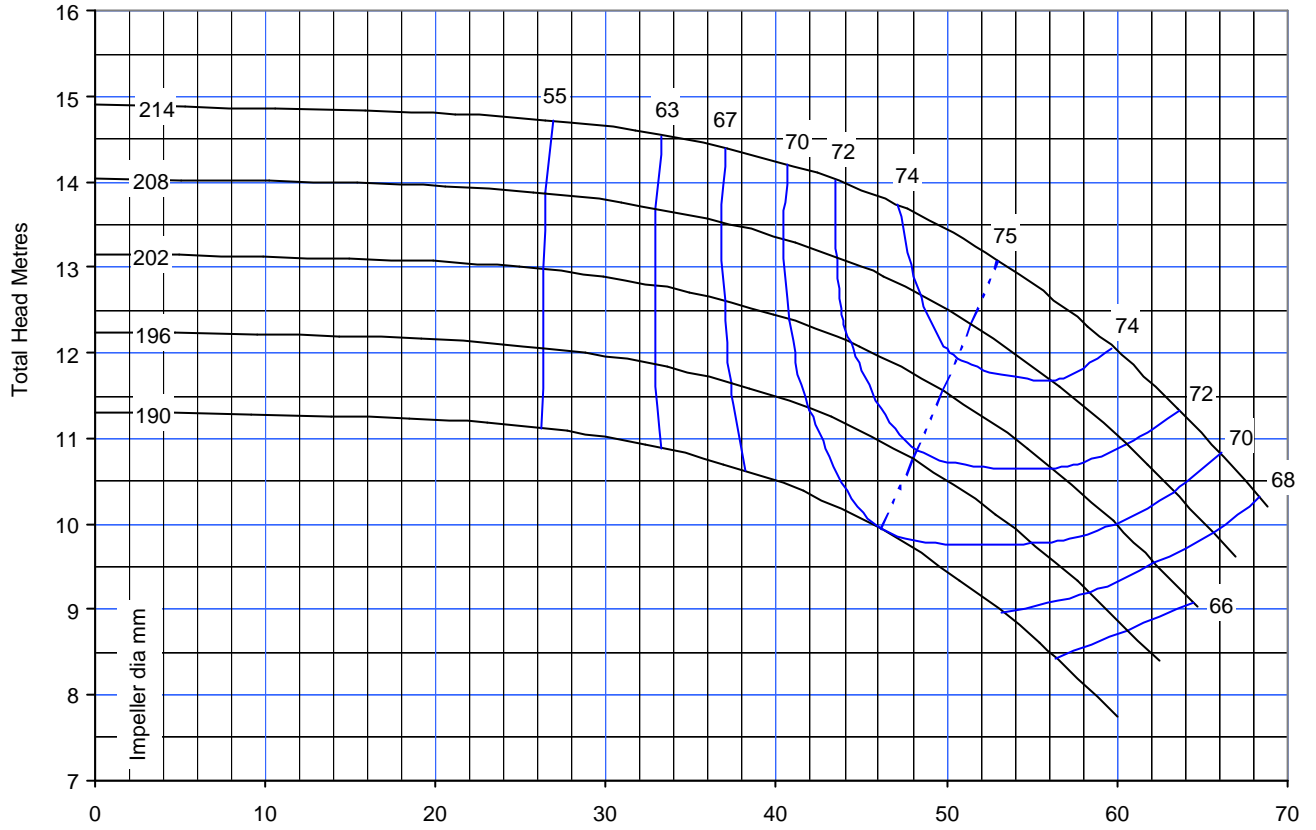
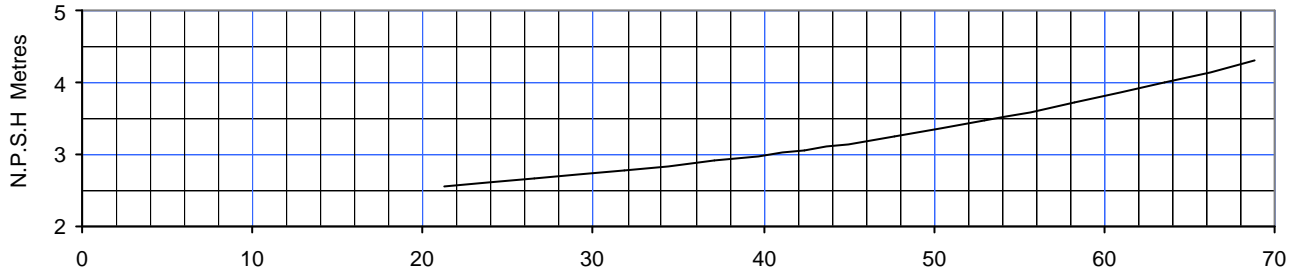
SUCTION DIA 125	DISCHARGE DIA 125	MAX PRESSURE 12 bar	PUMP MODEL GC 125-250	SPEED 1470
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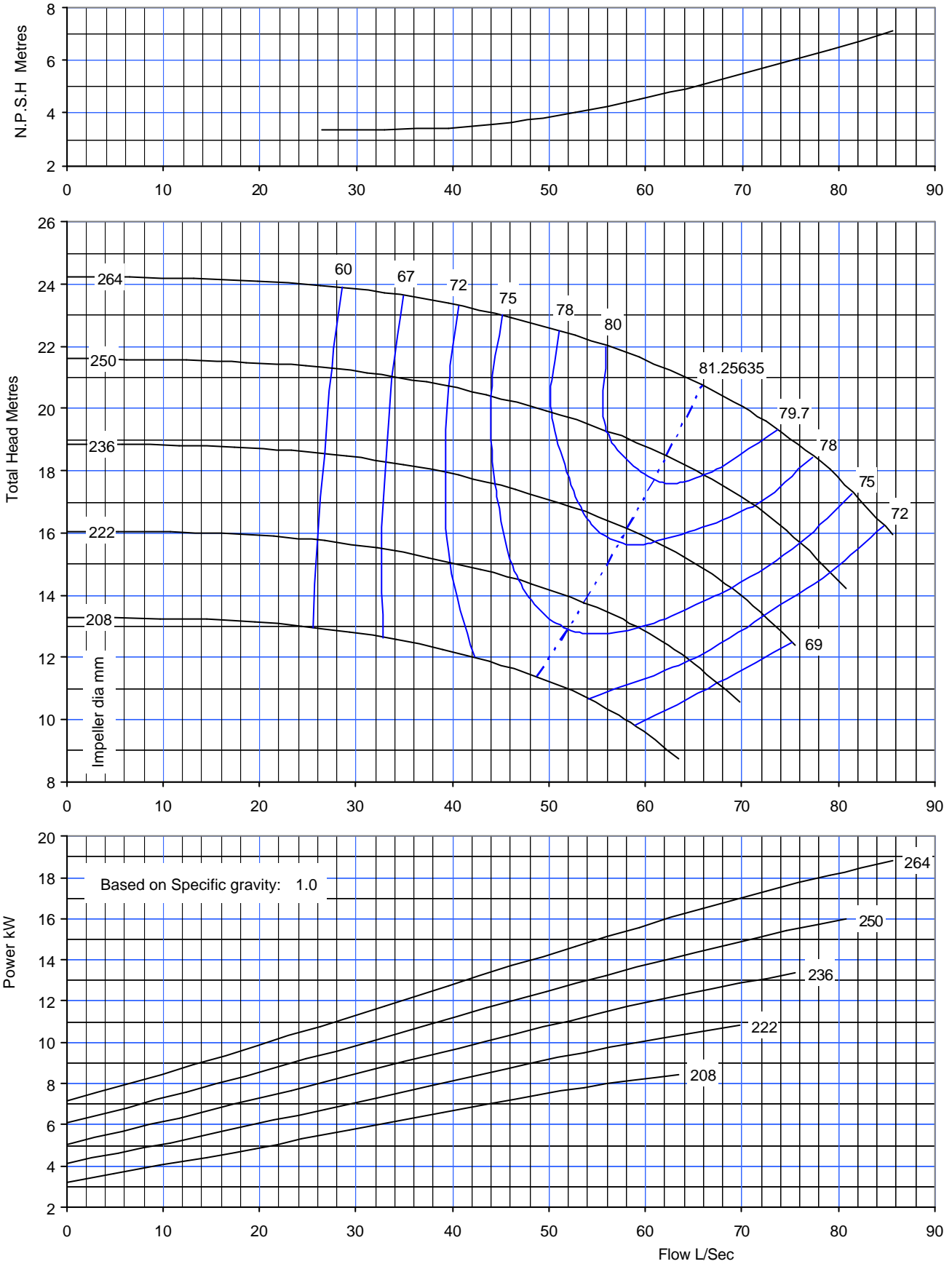
SUCTION DIA 125	DISCHARGE DIA 125	MAX PRESSURE 12 bar	PUMP MODEL GC 125-315	SPEED 1470
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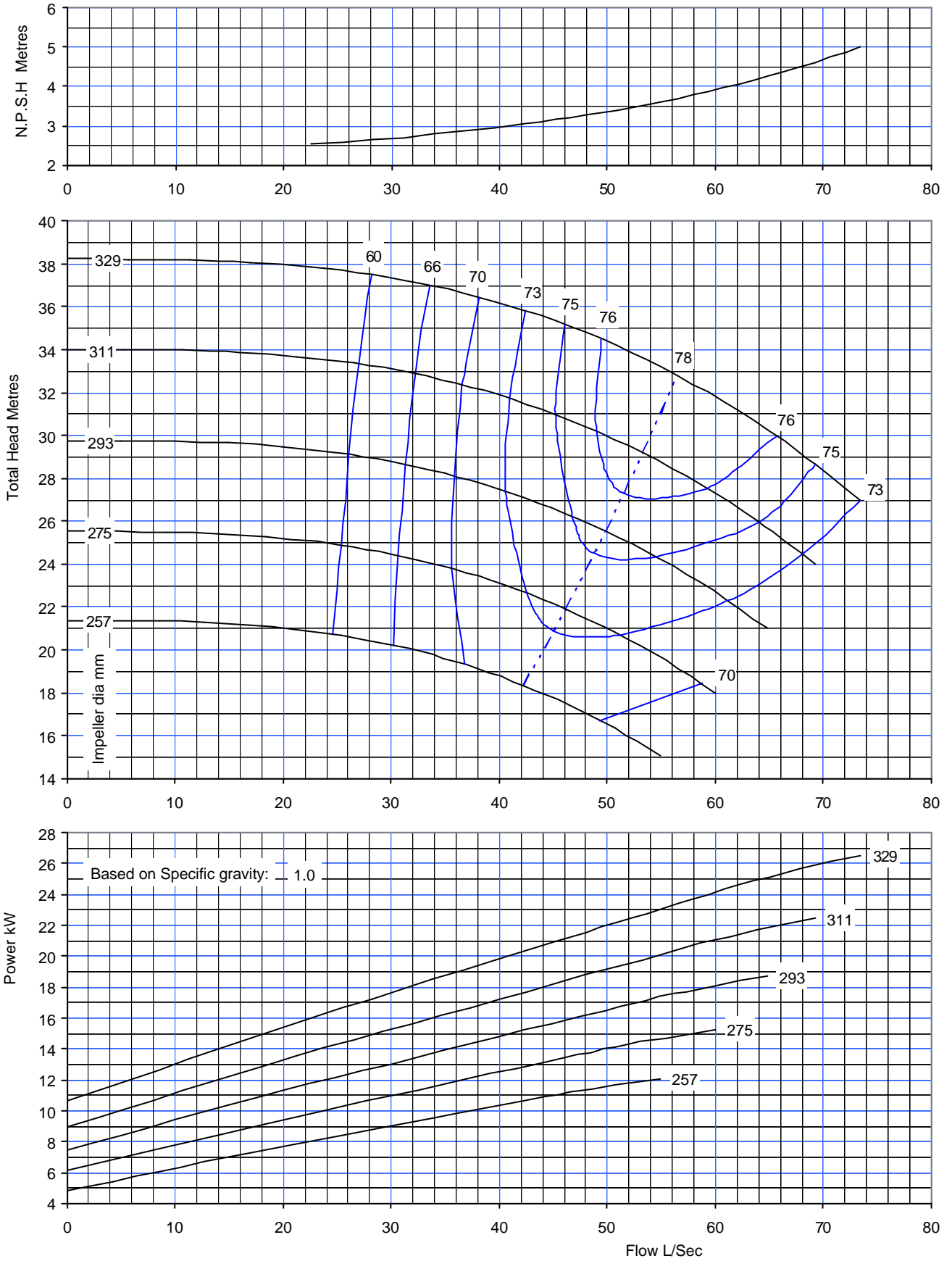
SUCTION DIA 125	DISCHARGE DIA 125	MAX PRESSURE 12 bar	PUMP MODEL GC 125-400	SPEED 1475
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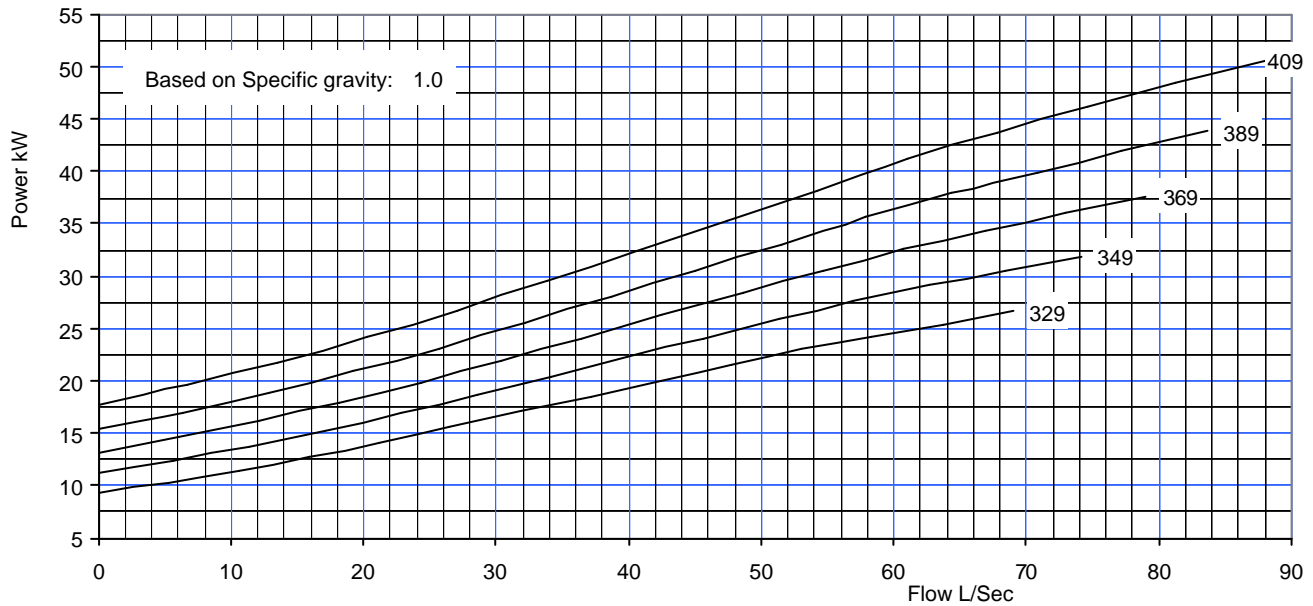
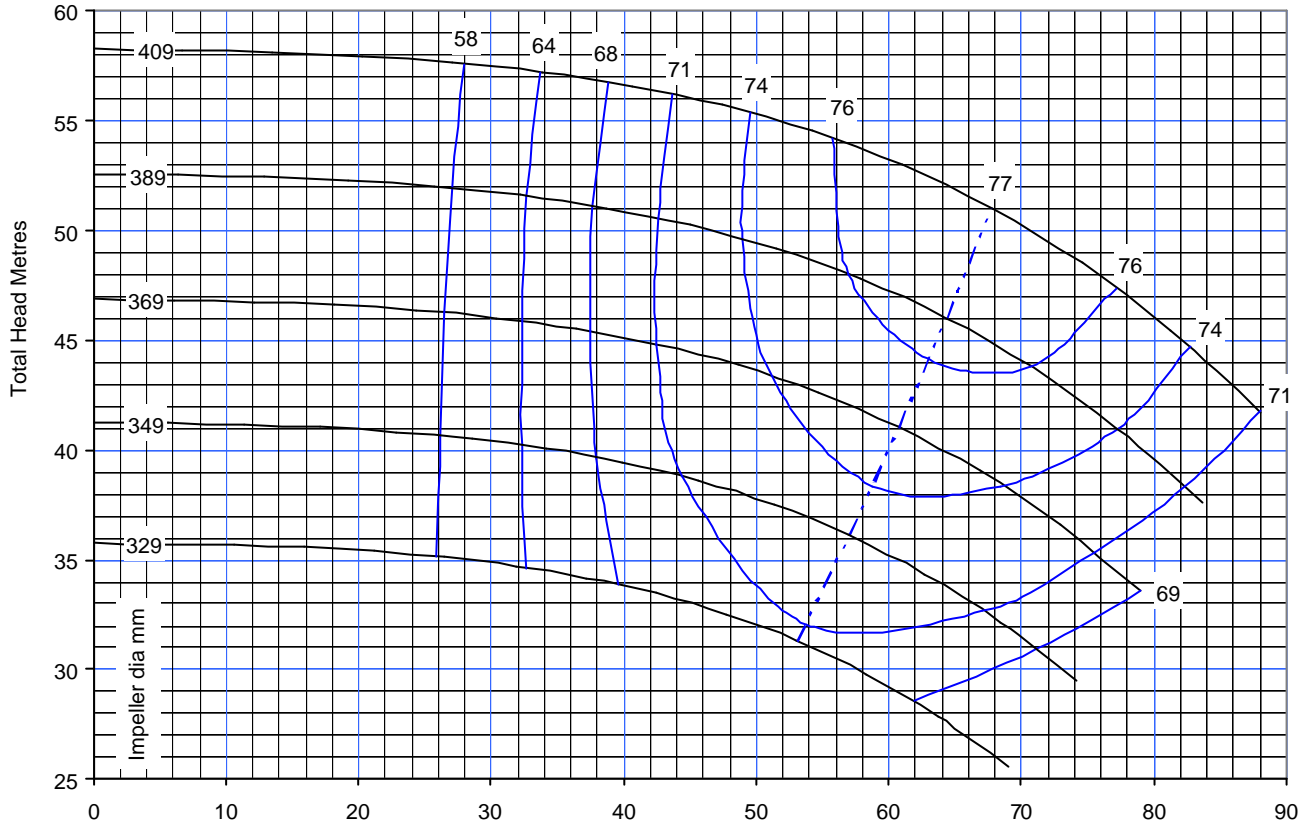
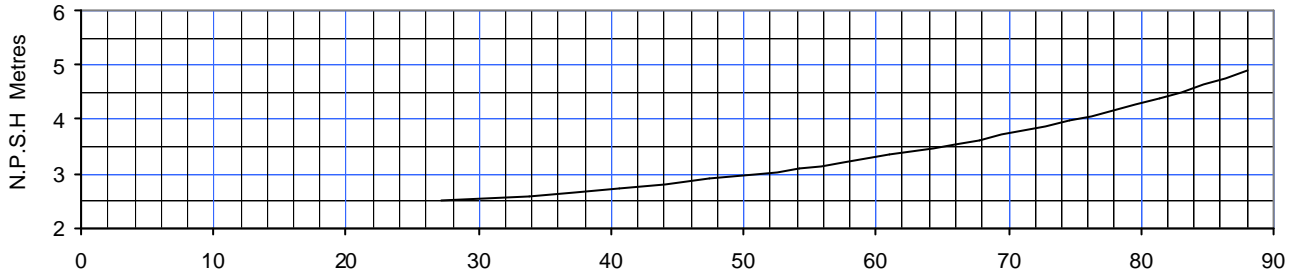
SUCTION DIA 150	DISCHARGE DIA 150	MAX PRESSURE 12 bar	PUMP MODEL GC 150-200	SPEED 1450
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SUCTION DIA 150	DISCHARGE DIA 150	MAX PRESSURE 12 bar	PUMP MODEL GC 150-250	SPEED 1470
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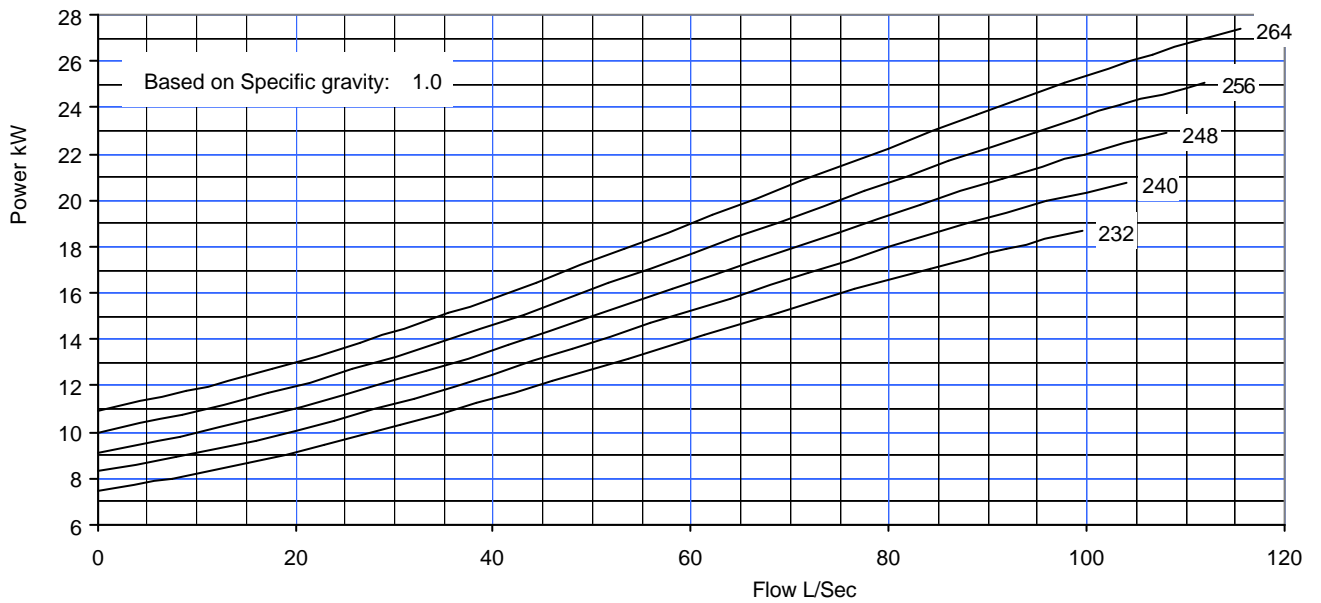
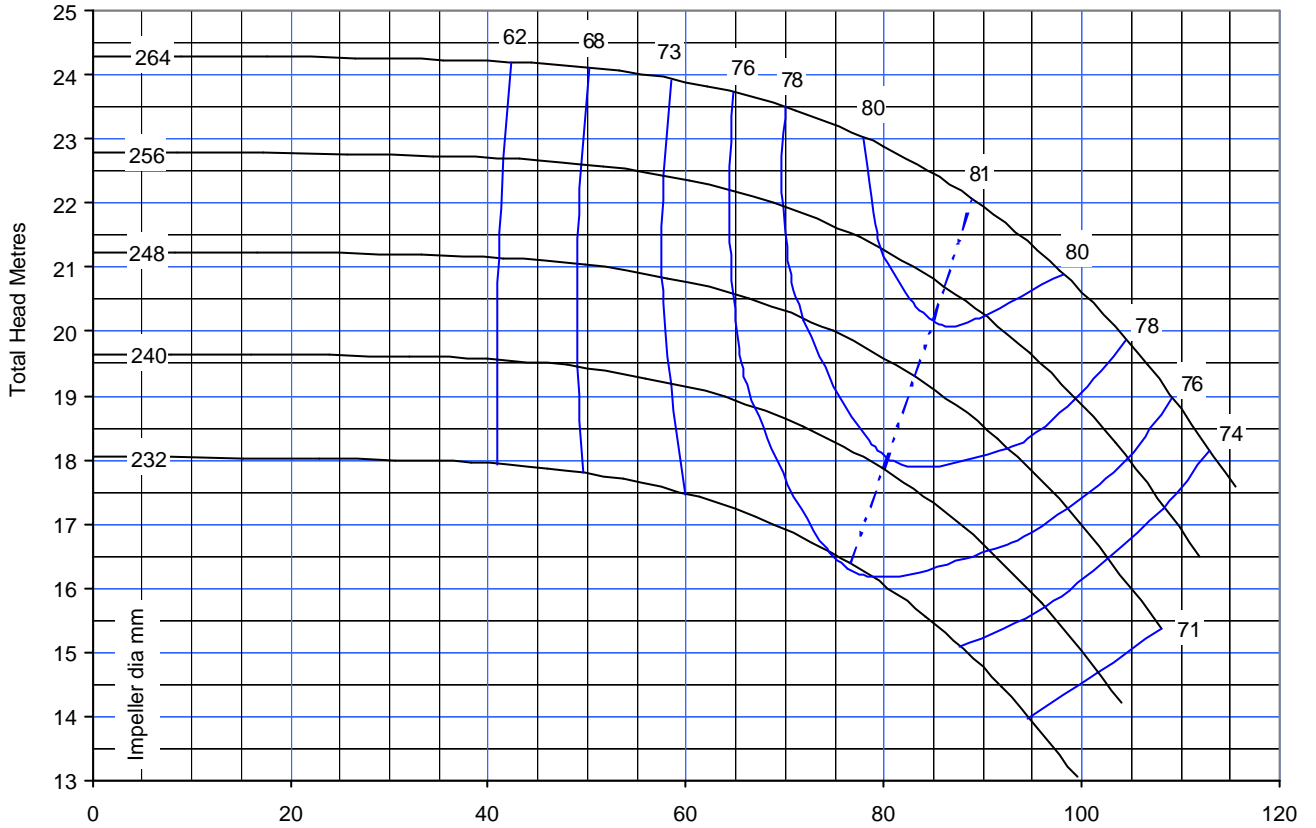
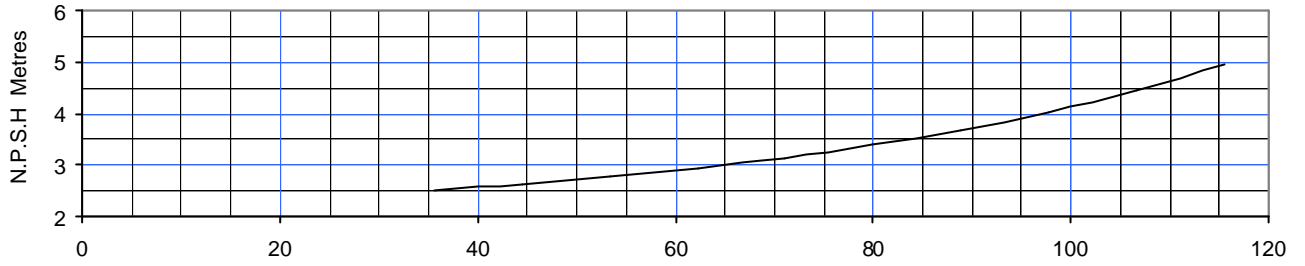


SUCTION DIA 150	DISCHARGE DIA 150	MAX PRESSURE 12 bar	PUMP MODEL GC150-315	SPEED 1475
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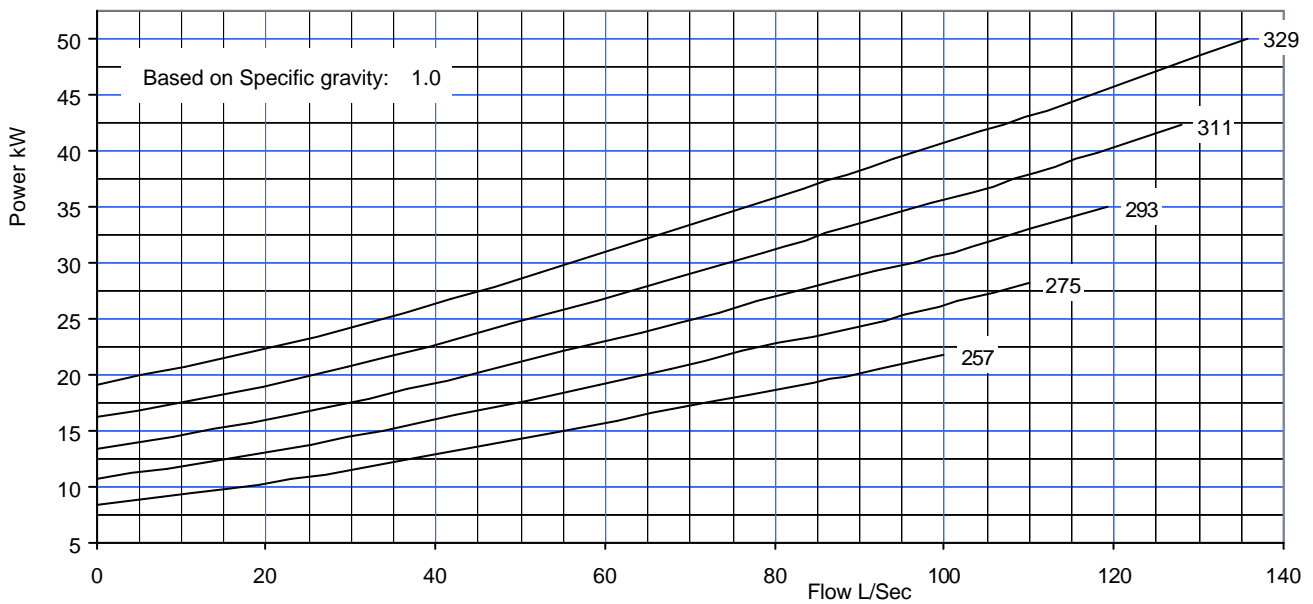
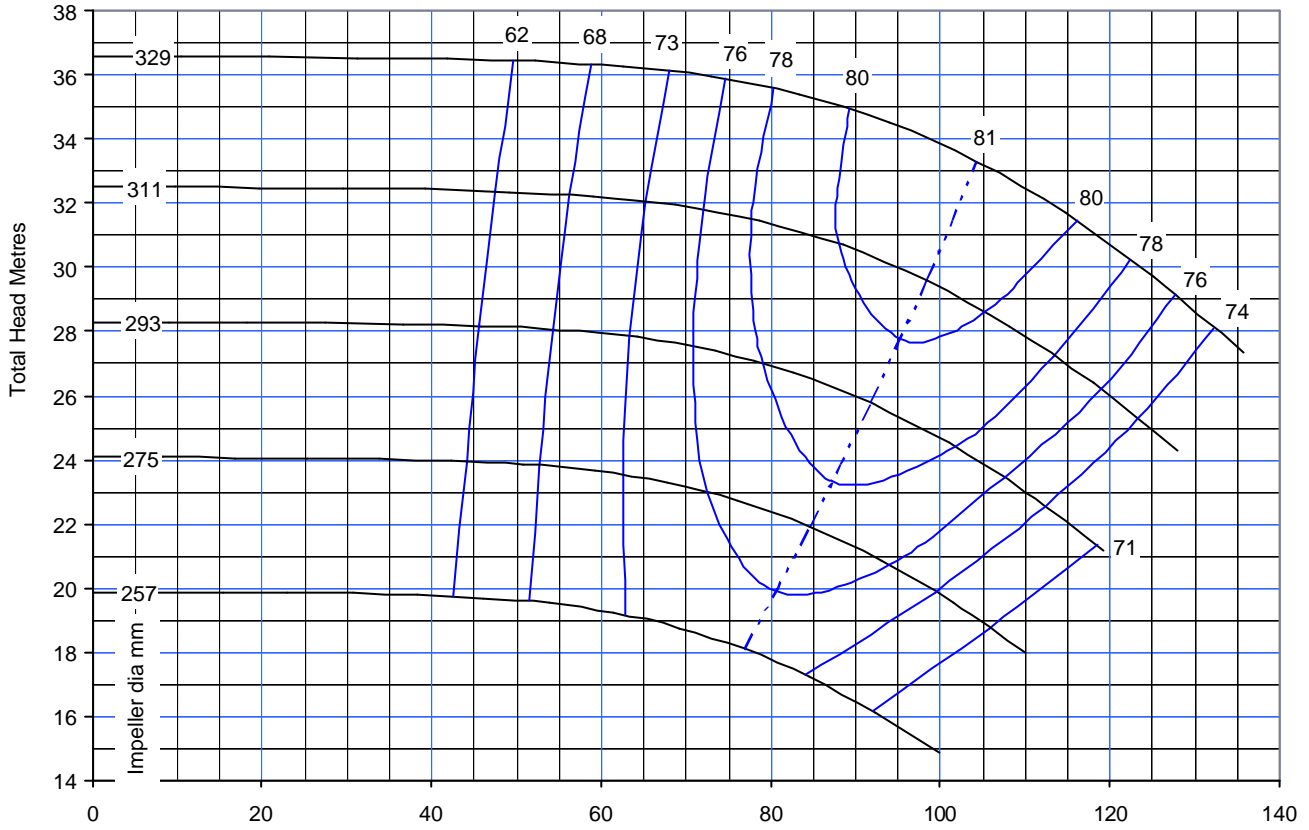
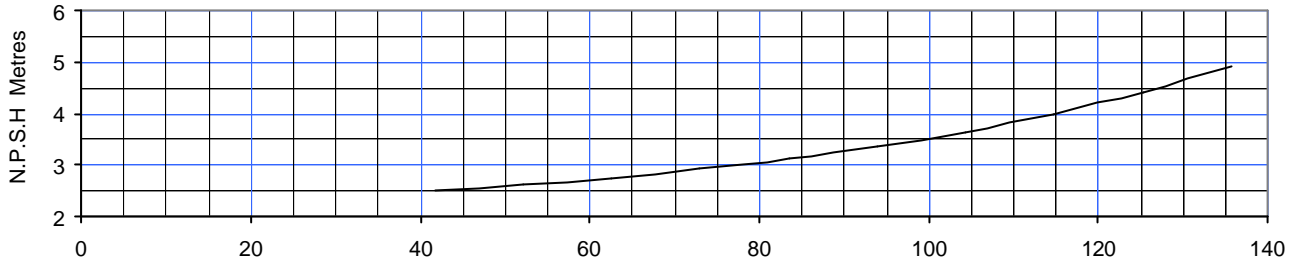


SUCTION DIA 150	DISCHARGE DIA 150	MAX PRESSURE 12 bar	PUMP MODEL GC 150-400	SPEED 1475
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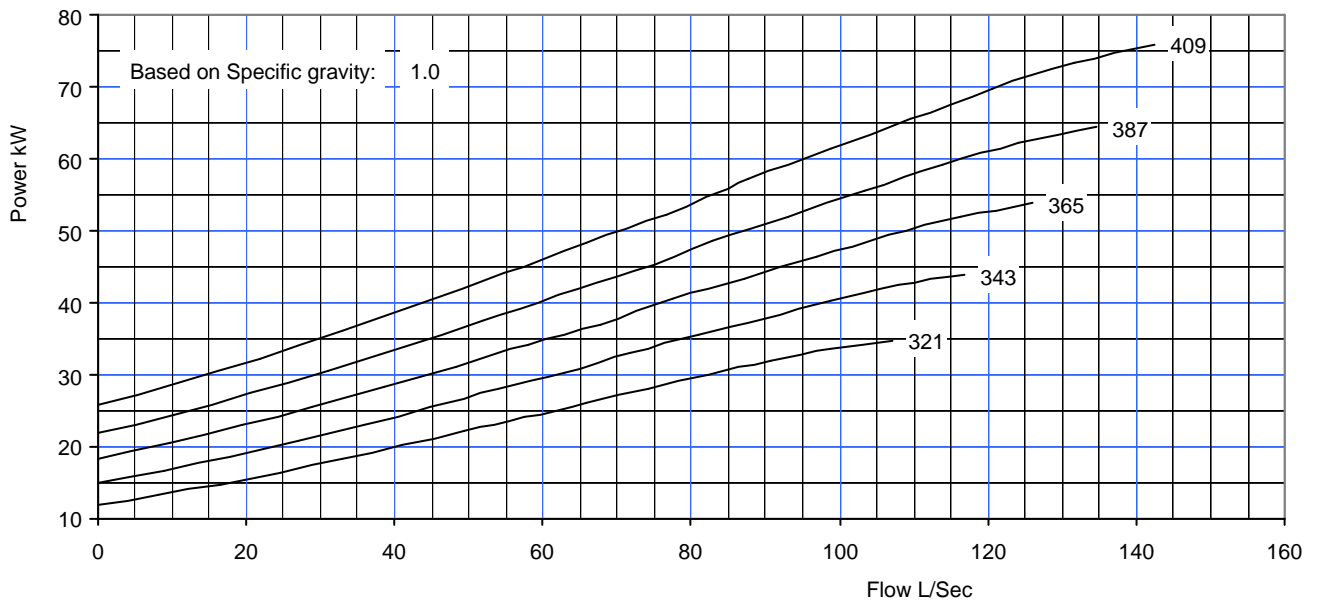
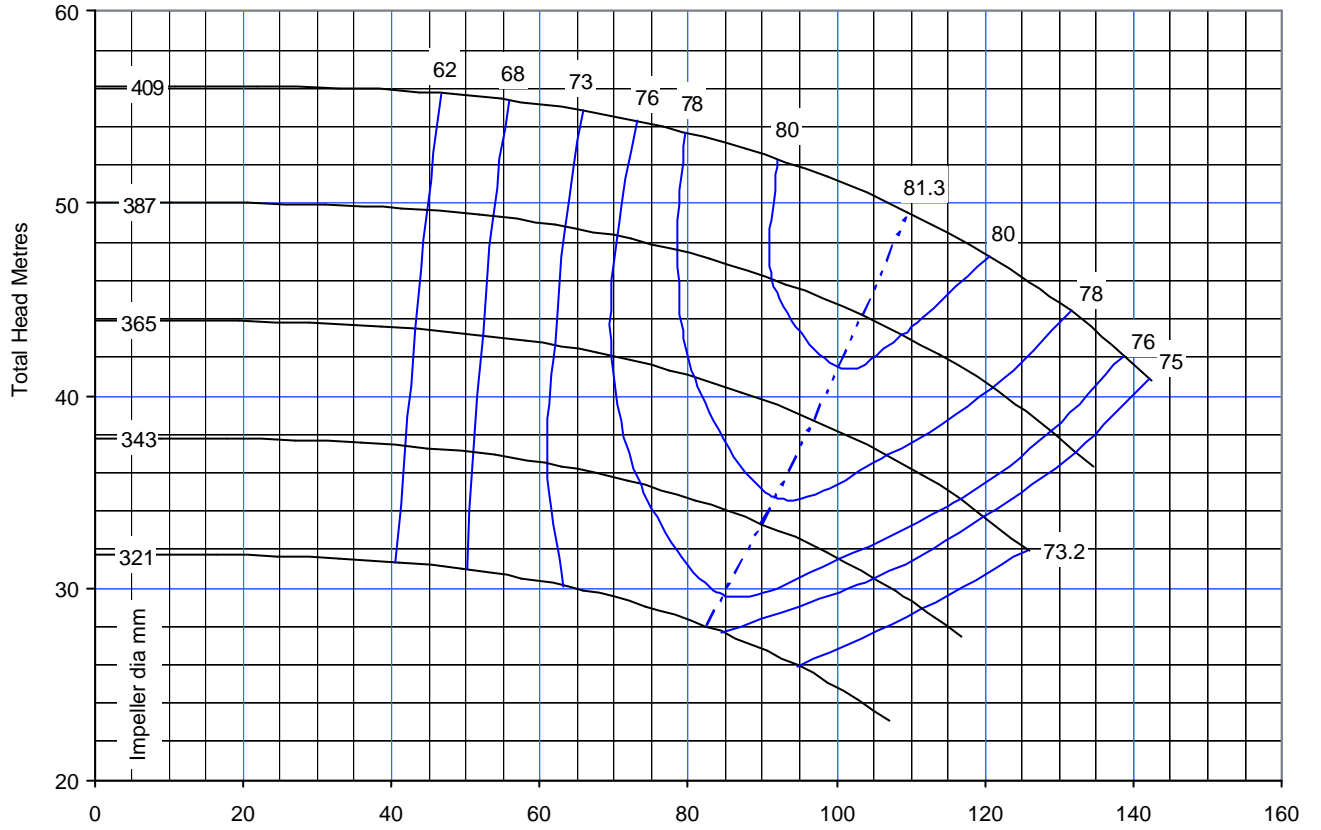
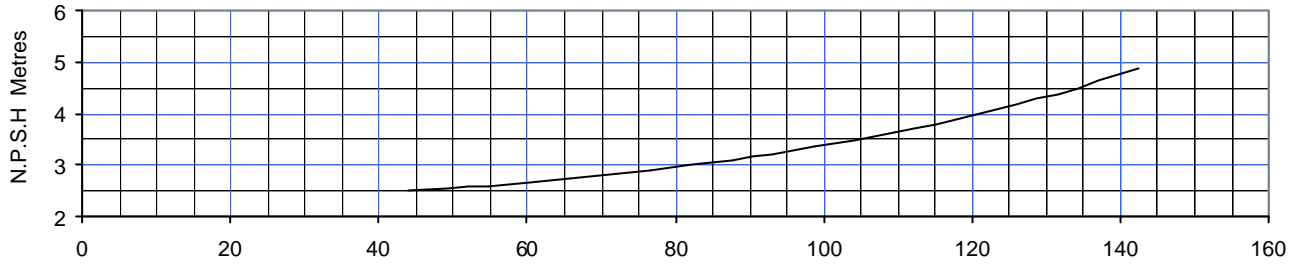
APEX PUMPS MORLEY ROAD STAPLE HILL BRISTOL BS16 4QT TEL:0117 907 7555 FAX: 0117 907 7556



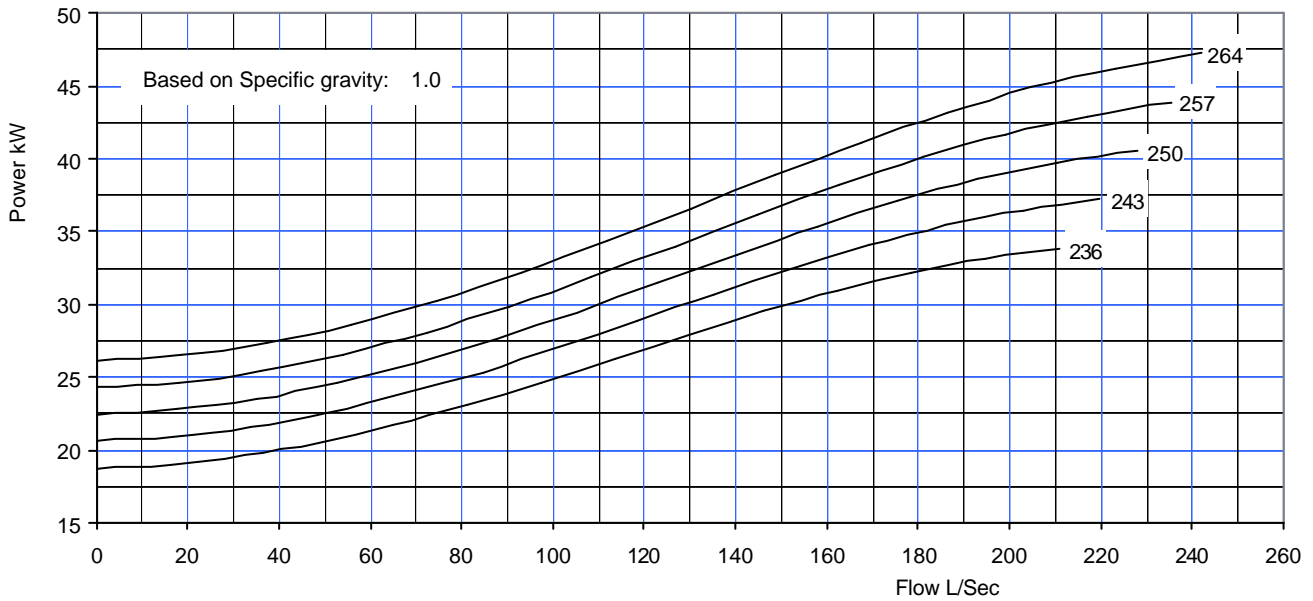
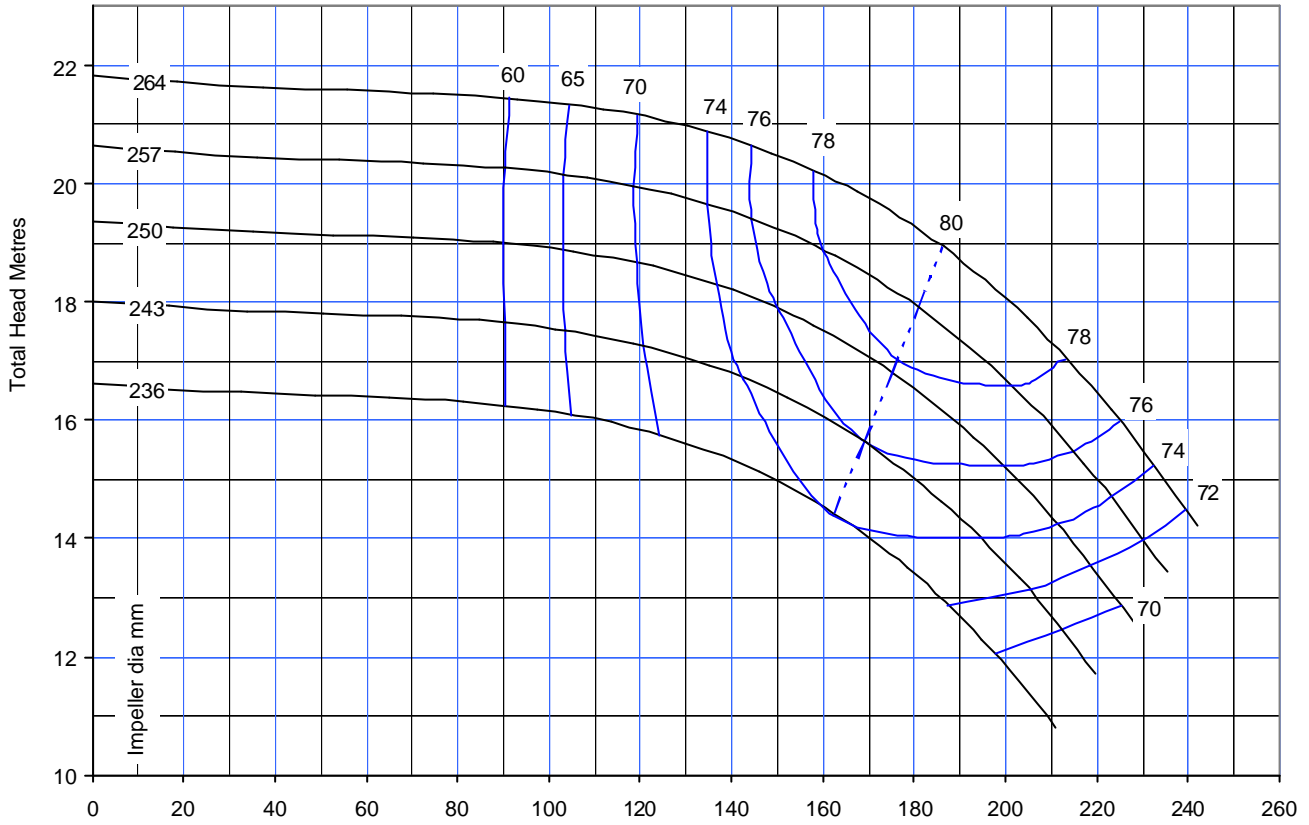
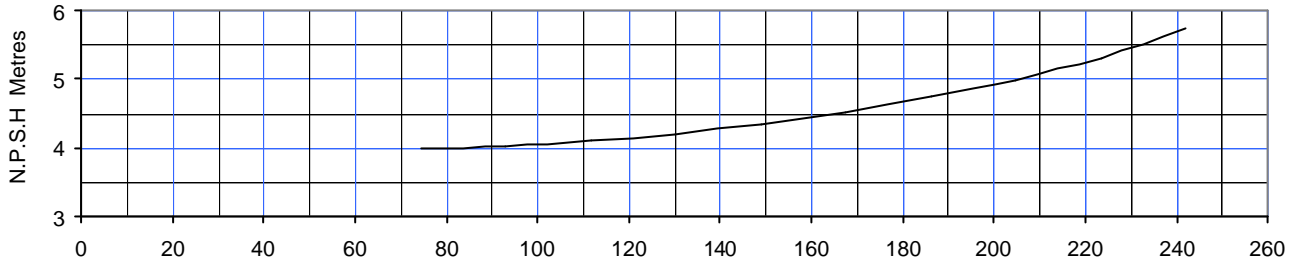
SUCTION DIA 200	DISCHARGE DIA 200	MAX PRESSURE 12 bar	PUMP MODEL GC200-250	SPEED 1475
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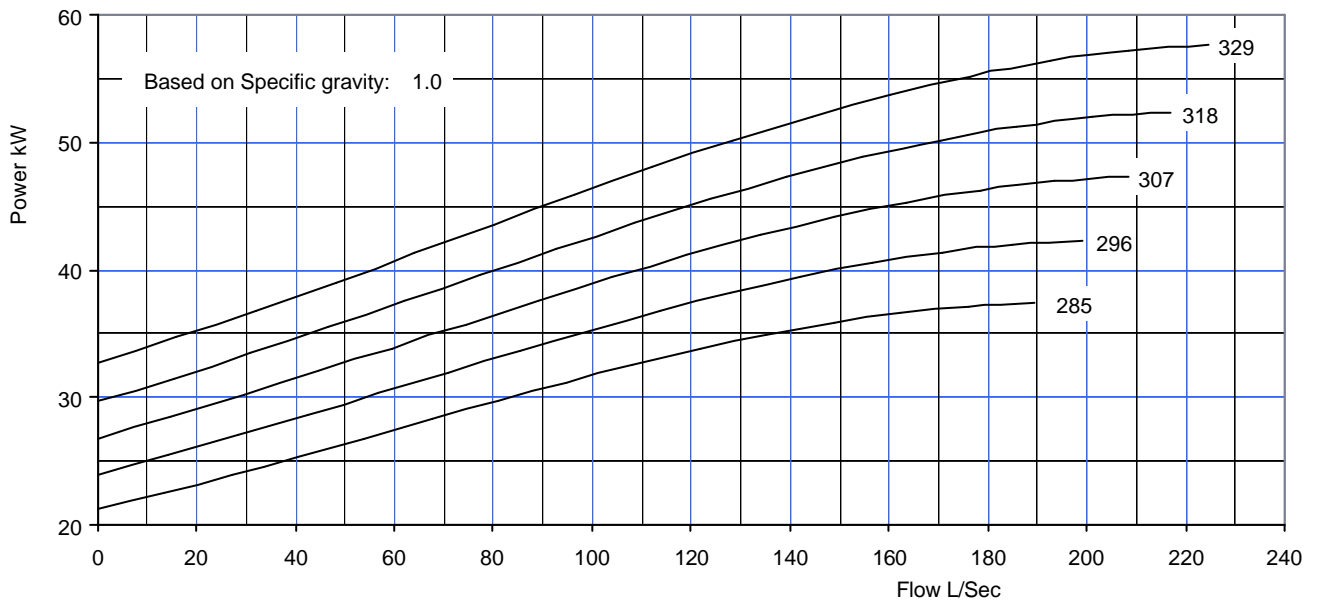
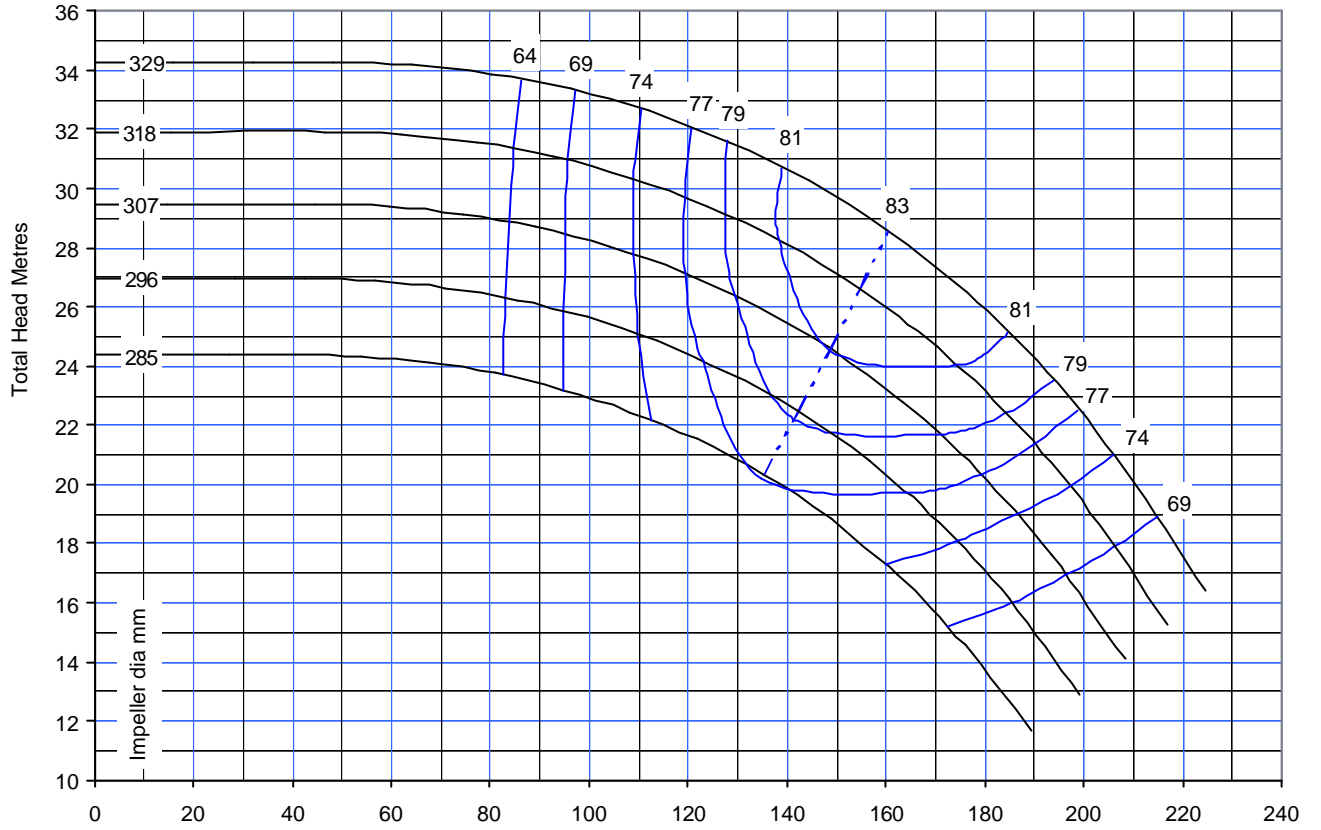
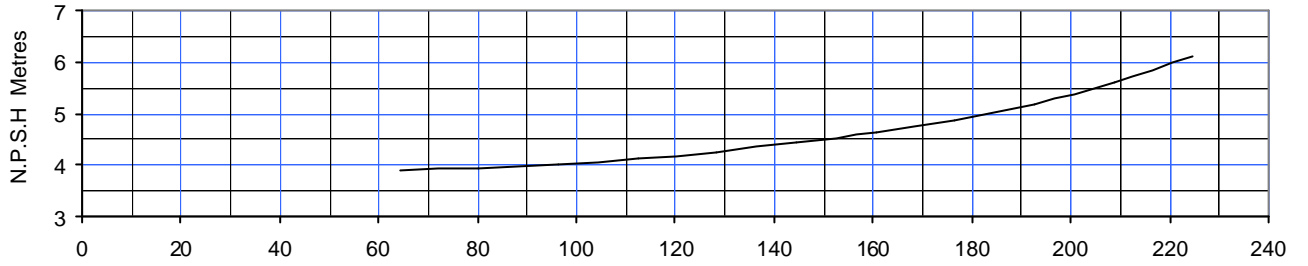
SUCTION DIA 200	DISCHARGE DIA 200	MAX PRESSURE 12 bar	PUMP MODEL GC 200-315	SPEED 1475
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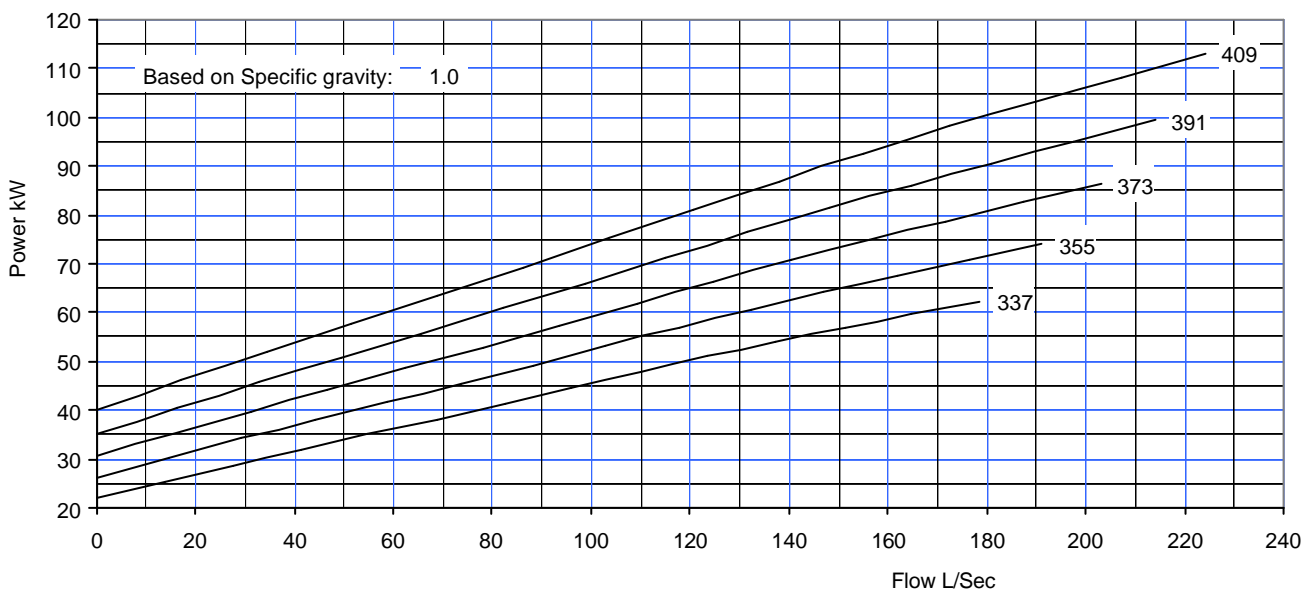
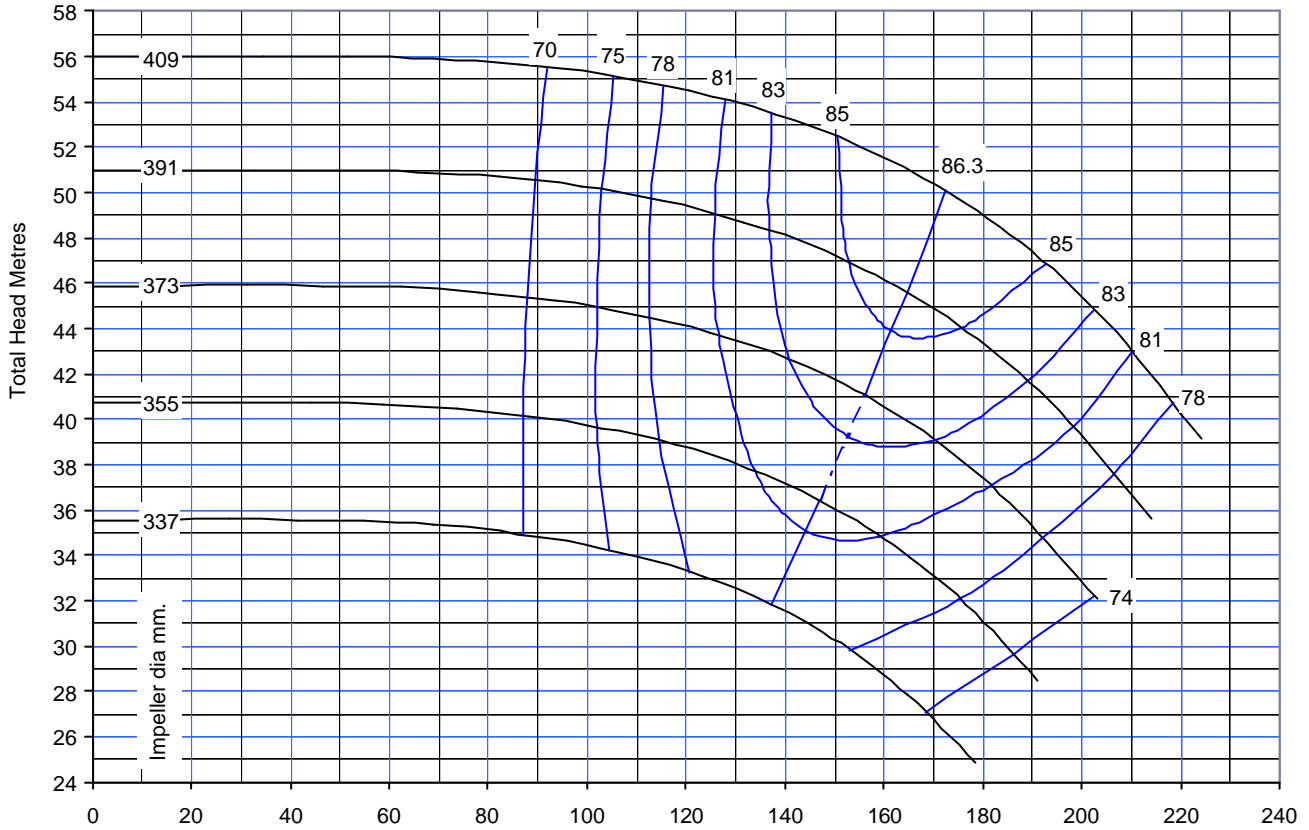
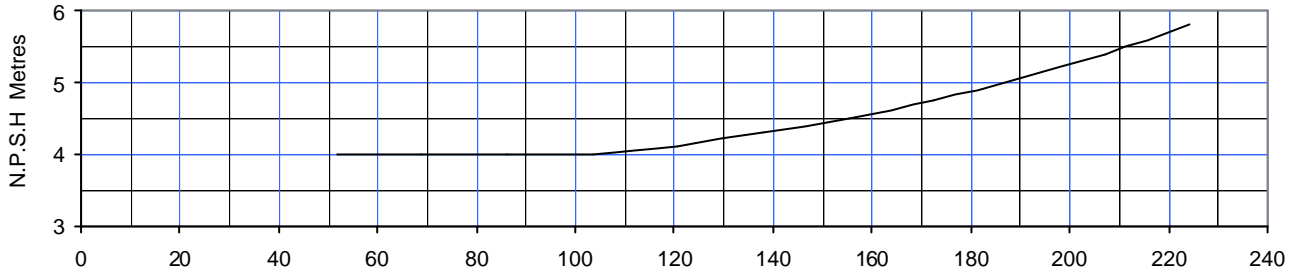
SUCTION DIA 200	DISCHARGE DIA 200	MAX PRESSURE 12 bar	PUMP MODEL GC 200-400	SPEED 1475
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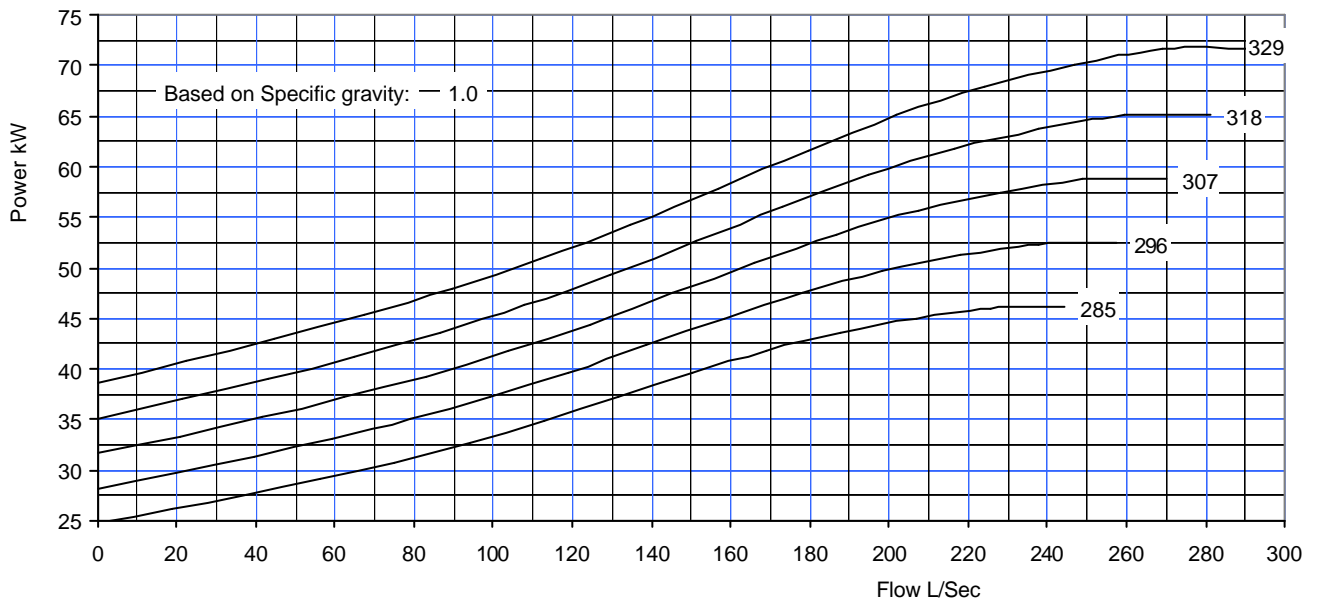
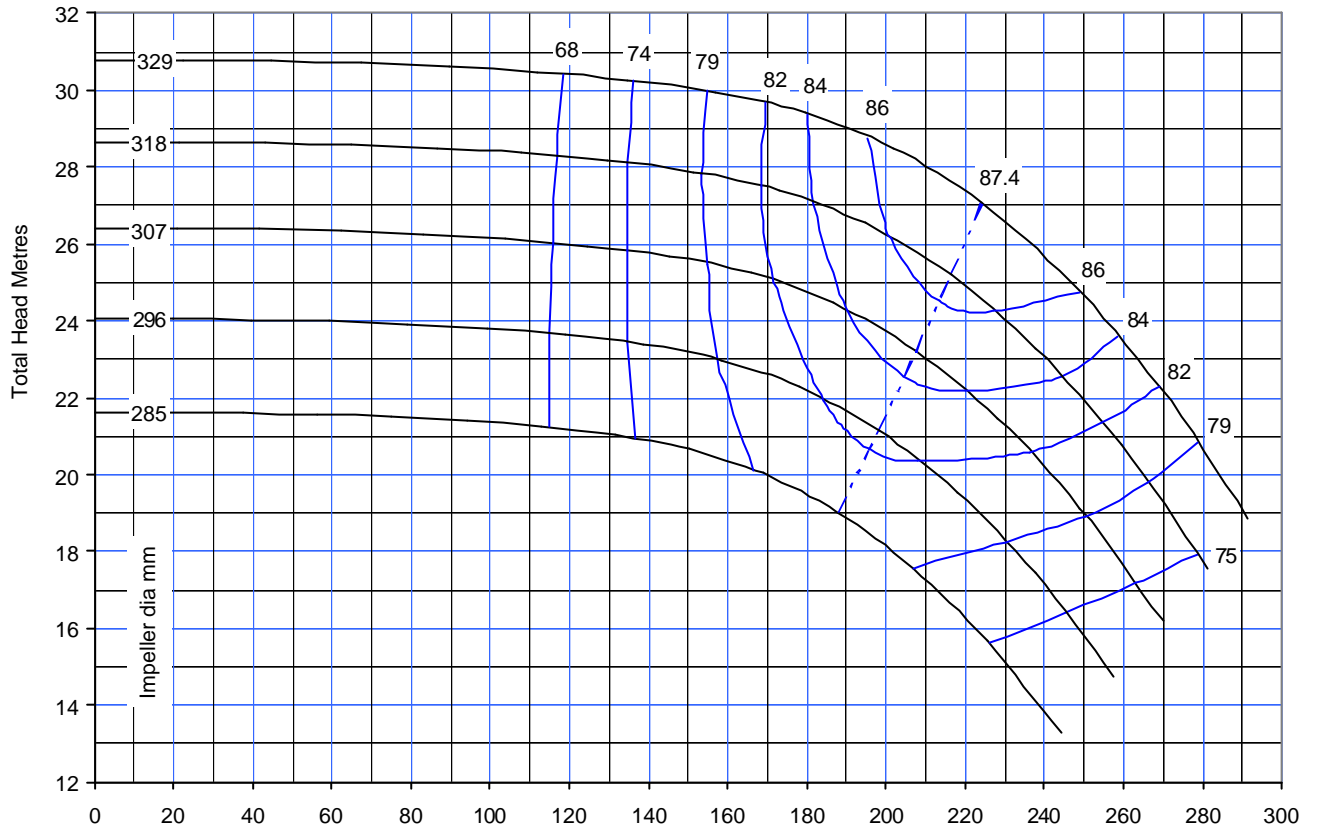
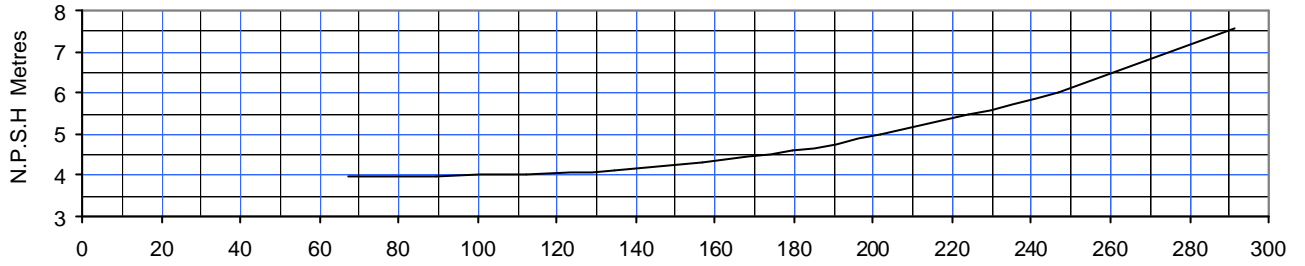
SUCTION DIA 250	DISCHARGE DIA 250	MAX PRESSURE 12 bar	PUMP MODEL GC 250-250	SPEED 1475
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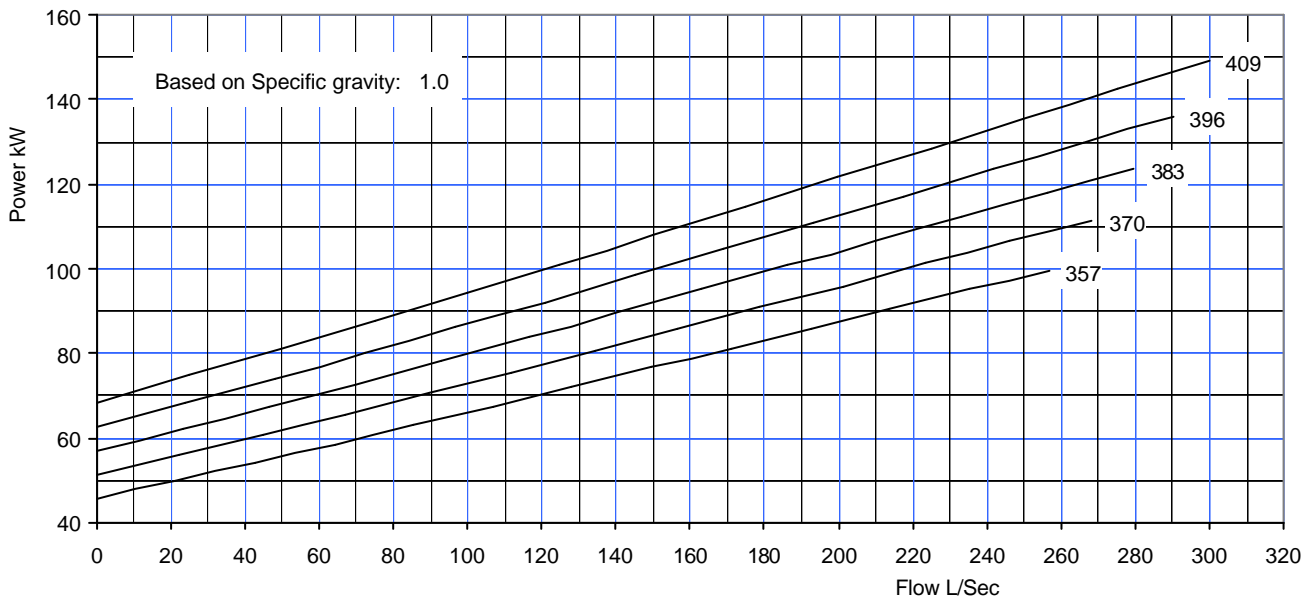
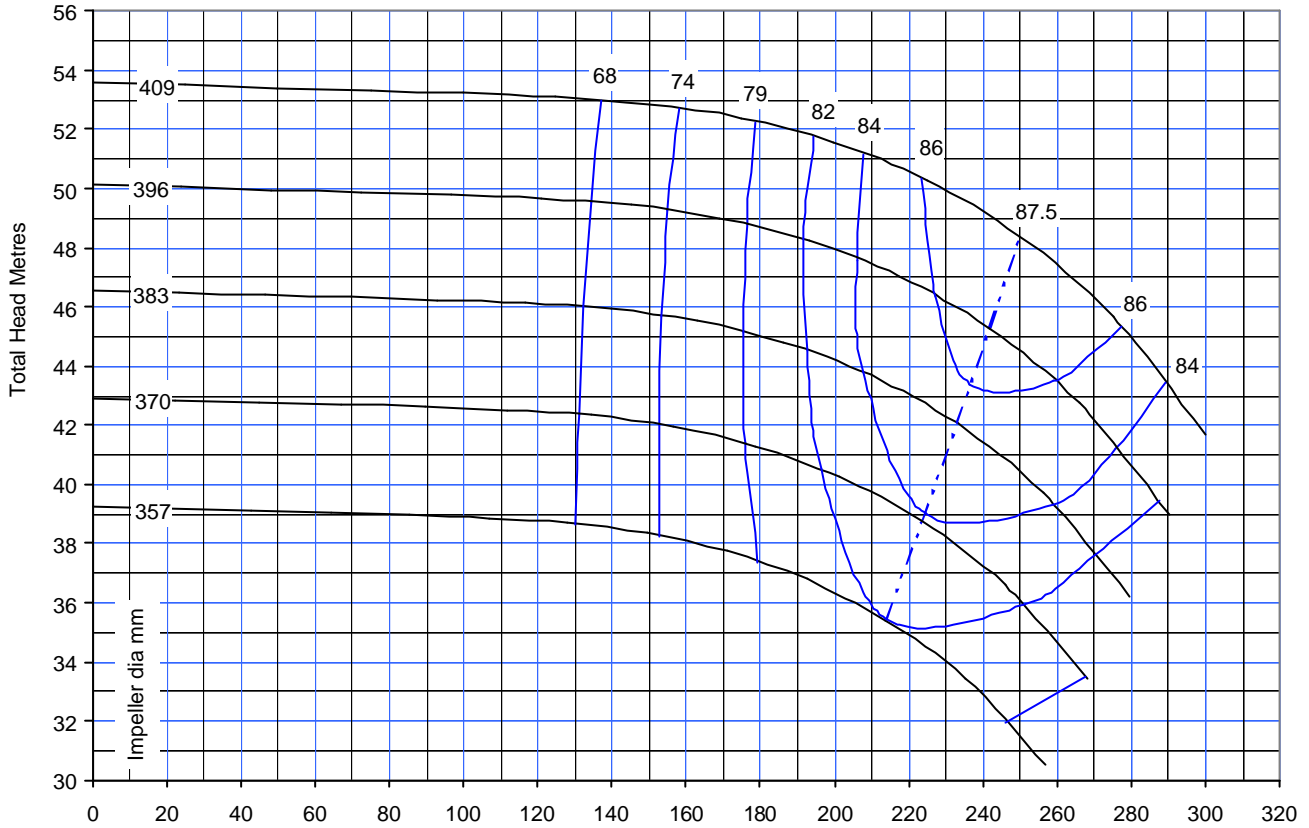
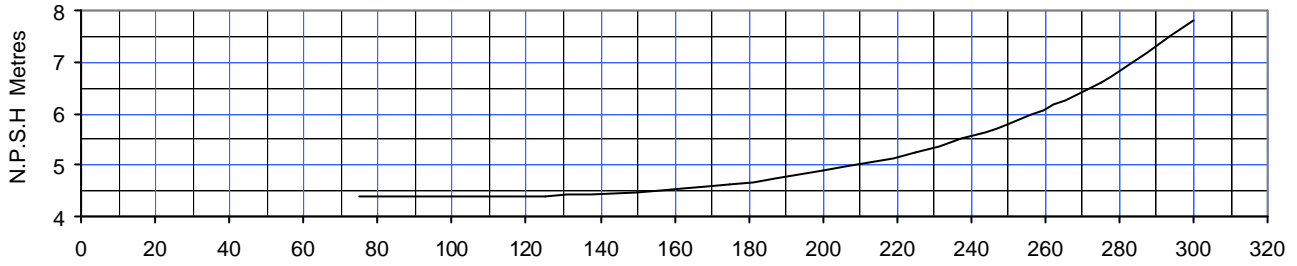
SUCTION DIA 250	DISCHARGE DIA 250	MAX PRESSURE 12 bar	PUMP MODEL GC 250-315	SPEED 1475
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SUCTION DIA 250	DISCHARGE DIA 250	MAX PRESSURE 12 bar	PUMP MODEL GC 250-400	SPEED 1480
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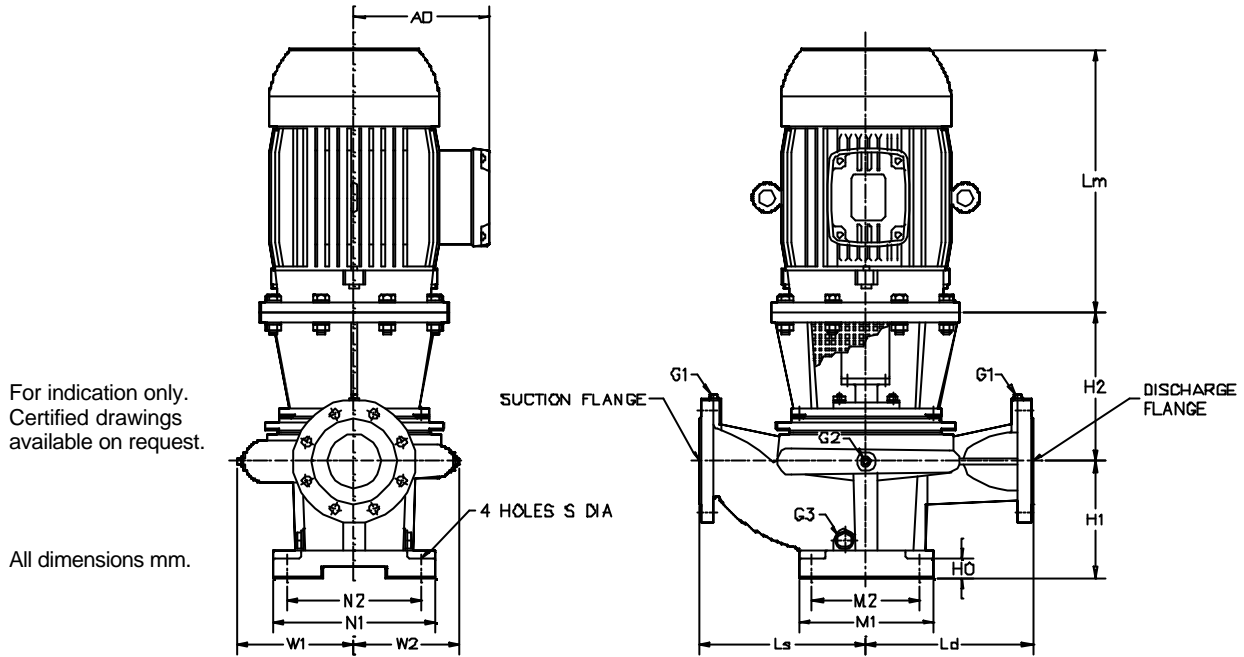
SUCTION DIA 300	DISCHARGE DIA 300	MAX PRESSURE 12 bar	PUMP MODEL GC 300-315	SPEED 1475
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SUCTION DIA 300	DISCHARGE DIA 300	MAX PRESSURE 12 bar	PUMP MODEL GC 300-400	SPEED 1480
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Apex GC pumpsets

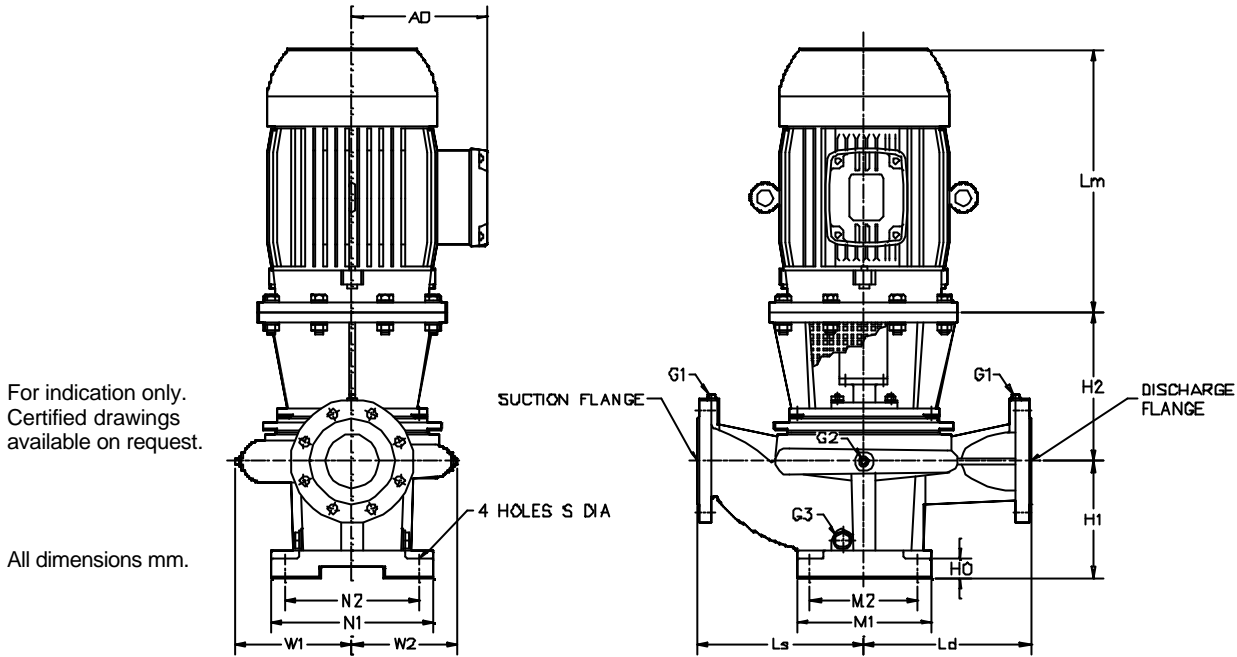
Outline dimensions



PUMP MODEL	MOTOR FRAME	FLANGES		PUMP DIMENSIONS							FOOT DIMENSIONS					PLUGS			MOTOR		KG
		IN	OUT	Ls	Ld	H0	H1	H2	W1	W2	N1	N2	M1	M2	S	G1	G2	G3	Lm	AD	
40-125 0.75/2	N80	40	40	150	150	5	150	167	120	108	270	230	180	140	14	1/4	1/4	1/4	255	129	36
40-125 1.1/2	N80	40	40	150	150	5	150	167	120	108	270	230	180	140	14	1/4	1/4	1/4	255	129	37
40-125 1.5/2	A90S	40	40	150	150	5	150	167	120	108	270	230	180	140	14	1/4	1/4	1/4	244	148	40
40-125 2.2/2	A90L	40	40	150	150	5	150	167	120	108	270	230	180	140	14	1/4	1/4	1/4	269	148	43
50-160 1.5/2	A90S	50	50	190	190	5	155	165	130	125	270	230	180	140	14	1/4	1/4	1/4	244	148	48
50-160 2.2/2	A90L	50	50	190	190	5	155	165	130	125	270	230	180	140	14	1/4	1/4	1/4	269	148	51
50-160 3.0/2	A100L	50	50	190	190	5	155	165	130	125	270	230	180	140	14	1/4	1/4	1/4	303	155	58
50-160 4.0/2	A112M	50	50	190	190	5	155	165	130	125	270	230	180	140	14	1/4	1/4	1/4	320	168	64
50-200 4.0/2	A112M	50	50	210	210	5	150	169	145	145	270	230	180	140	14	1/4	1/4	1/4	320	168	72
50-200 5.5/2	A132S	50	50	210	210	5	150	169	145	145	270	230	180	140	14	1/4	1/4	1/4	405	193	93
50-200 7.5/2	A132S	50	50	210	210	5	150	169	145	145	270	230	180	140	14	1/4	1/4	1/4	405	193	99
50-250 11/2	A160M	50	50	230	230	5	150	207	180	170	270	230	180	140	14	1/4	1/4	1/4	517	250	136
50-250 15/2	A160M	50	50	230	230	5	150	207	180	170	270	230	180	140	14	1/4	1/4	1/4	517	250	152
50-250 18.5/2	A160L	50	50	230	230	5	150	207	180	170	270	230	180	140	14	1/4	1/4	1/4	517	250	168
65-125 1.5/2	A90S	65	65	185	175	5	160	168	125	116	270	230	180	140	14	1/4	1/4	1/4	244	148	45
65-125 2.2/2	A90L	65	65	185	175	5	160	168	125	116	270	230	180	140	14	1/4	1/4	1/4	269	148	48
65-125 3.0/2	A100L	65	65	185	175	5	160	148	125	116	270	230	180	140	14	1/4	1/4	1/4	303	155	55
65-125 4.0/2	A112M	65	65	185	175	5	160	148	125	116	270	230	180	140	14	1/4	1/4	1/4	320	168	61
65-160 3.0/2	A100L	65	65	220	220	5	175	166	145	135	270	230	180	140	14	1/4	1/4	1/4	303	155	61
65-160 4.0/2	A112M	65	65	220	220	5	175	166	145	135	270	230	180	140	14	1/4	1/4	1/4	320	168	67
65-160 5.5/2	A132S	65	65	220	220	5	175	166	145	135	270	230	180	140	14	1/4	1/4	1/4	405	193	88
65-160 7.5/2	A132S	65	65	220	220	5	175	166	145	135	270	230	180	140	14	1/4	1/4	1/4	405	193	94
65-200 5.5/2	A132S	65	65	240	240	5	175	165	150	145	270	230	180	140	14	1/4	1/4	1/4	405	193	96
65-200 7.5/2	A132S	65	65	240	240	5	175	165	150	145	270	230	180	140	14	1/4	1/4	1/4	405	193	102
65-200 11/2	A160M	65	65	240	240	5	175	205	150	145	270	230	180	140	14	1/4	1/4	1/4	517	250	121
65-250 11/2	A160M	65	65	260	260	5	170	210	180	180	270	230	180	140	14	1/4	1/4	1/4	517	250	138
65-250 15/2	A160M	65	65	260	260	5	170	210	180	180	270	230	180	140	14	1/4	1/4	1/4	517	250	154
65-250 18.5/2	A160L	65	65	260	260	5	170	210	180	180	270	230	180	140	14	1/4	1/4	1/4	517	250	170
65-250 22/2	A180M	65	65	260	260	5	170	210	180	180	270	230	180	140	14	1/4	1/4	1/4	578	291	192
65-160A 5.5/2	A132S	65	65	220	220	5	175	166	150	135	270	230	180	140	14	1/4	1/4	1/4	405	193	88
65-160A 7.5/2	A132S	65	65	220	220	5	175	166	150	135	270	230	180	140	14	1/4	1/4	1/4	405	193	94
65-160A 11/2	A160M	65	65	220	220	5	175	206	150	135	270	230	180	140	14	1/4	1/4	1/4	517	250	113

Apex GC pumpsets

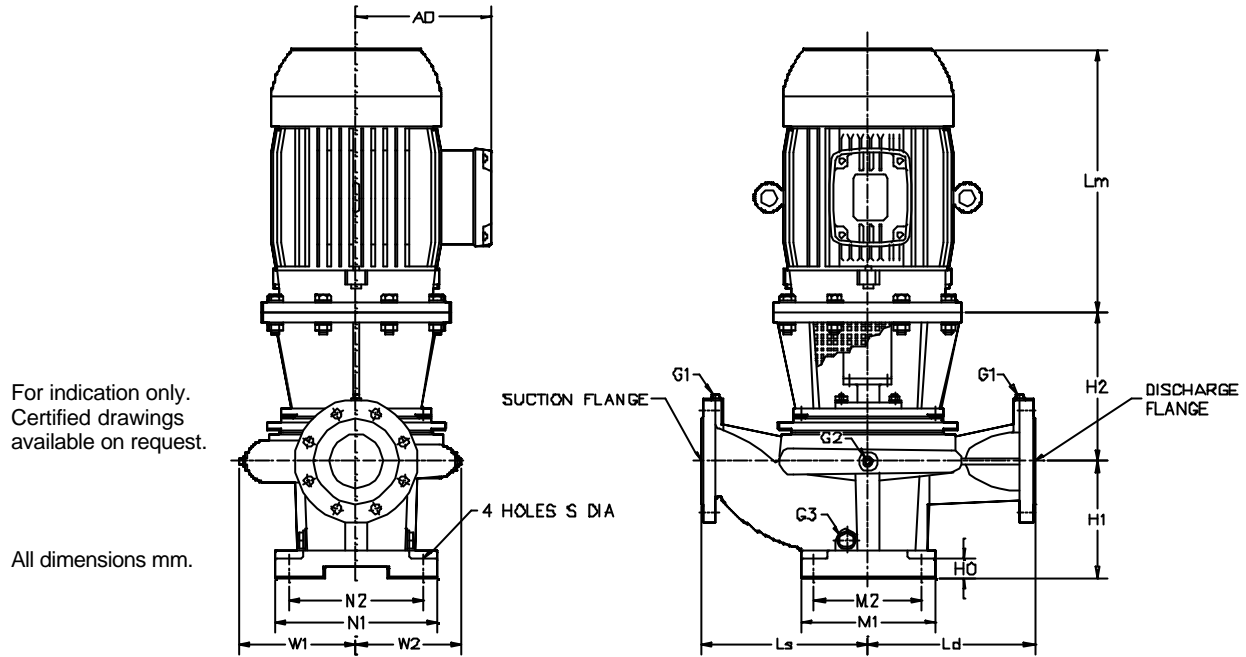
Outline dimensions



PUMP MODEL	MOTOR FRAME	FLANGES		PUMP DIMENSIONS							FOOT DIMENSIONS					PLUGS			MOTOR		
		IN	OUT	Ls	Ld	H0	H1	H2	W1	W2	N1	N2	M1	M2	S	G1	G2	G3	Lm	AD	KG
65-200A 7.5/2	A132S	65	65	240	240	5	166	172	175	155	270	230	180	140	14	1/4	1/4	1/4	405	193	102
65-200A 11/2	A160M	65	65	240	240	5	166	212	175	155	270	230	180	140	14	1/4	1/4	1/4	517	250	121
65-200A 15/2	A160M	65	65	240	240	5	166	212	175	155	270	230	180	140	14	1/4	1/4	1/4	517	250	137
65-200A 18.5/2	A160L	65	65	240	240	5	166	212	175	155	270	230	180	140	14	1/4	1/4	1/4	517	250	153
65-250A 15/2	A160M	65	65	260	260	5	170	209	185	170	270	230	180	140	14	1/4	1/4	1/4	517	250	154
65-250A 18.5/2	A160L	65	65	260	260	5	170	209	185	170	270	230	180	140	14	1/4	1/4	1/4	517	250	170
65-250A 22/2	A180M	65	65	260	260	5	170	209	185	170	270	230	180	140	14	1/4	1/4	1/4	578	291	192
65-250A 30/2	200L	65	65	260	260	5	170	240	185	170	270	230	180	140	14	1/4	1/4	1/4	657	294	308
80-160 7.5/2	A132S	80	80	240	240	6	190	178	170	140	270	230	190	140	14	1/4	1/4	1/4	405	193	101
80-160 11/2	A160M	80	80	240	240	6	190	218	170	140	270	230	190	140	14	1/4	1/4	1/4	517	250	120
80-160 15/2	A160M	80	80	240	240	6	190	218	170	140	270	230	190	140	14	1/4	1/4	1/4	517	250	136
80-160 18.5/2	A160L	80	80	240	240	6	190	218	170	140	270	230	190	140	14	1/4	1/4	1/4	517	250	152
80-200 15/2	A160M	80	80	260	260	6	190	213	178	155	270	230	190	140	14	1/4	1/4	1/4	517	250	145
80-200 18.5/2	A160L	80	80	260	260	6	190	213	178	155	270	230	190	140	14	1/4	1/4	1/4	517	250	161
80-200 22/2	A180M	80	80	260	260	6	190	213	178	155	270	230	190	140	14	1/4	1/4	1/4	578	291	183
80-200 30/2	200L	80	80	260	260	6	190	226	178	155	270	230	190	140	14	1/4	1/4	1/4	657	294	299
80-250 22/2	A180M	80	80	290	290	6	200	210	200	180	270	230	190	140	14	1/4	1/4	1/4	578	291	215
80-250 30/2	200L	80	80	290	290	6	200	271	200	180	270	230	190	140	14	1/4	1/4	1/4	657	294	331
80-250 37/2	200L	80	80	290	290	6	200	271	200	180	270	230	190	140	14	1/4	1/4	1/4	657	294	346
80-250 45/2	225S/M	80	80	290	290	6	200	301	200	180	270	230	190	140	14	1/4	1/4	1/4	707	368	471
80-250 55/2	250S/M	80	80	290	290	6	200	301	200	180	270	230	190	140	14	1/4	1/4	1/4	783	368	536
100-160 15/2	A160M	100	100	260	260	6	220	217	183	145	270	230	190	140	14	1/4	1/4	1/4	517	250	145
100-160 18.5/2	A160L	100	100	260	260	6	220	217	183	145	270	230	190	140	14	1/4	1/4	1/4	517	250	161
100-160 22/2	A180M	100	100	260	260	6	220	217	183	145	270	230	190	140	14	1/4	1/4	1/4	578	291	183
100-160 30/2	200L	100	100	260	260	6	220	230	183	145	270	230	190	140	14	1/4	1/4	1/4	657	294	299
100-200 22/2	A180M	100	100	290	290	6	220	218	210	170	270	230	190	140	14	1/4	1/4	1/4	578	291	200
100-200 30/2	200L	100	100	290	290	6	220	270	210	170	270	230	190	140	14	1/4	1/4	1/4	657	294	316
100-200 37/2	200L	100	100	290	290	6	220	270	210	170	270	230	190	140	14	1/4	1/4	1/4	657	294	331
100-200 45/2	225S/M	100	100	290	290	6	220	270	210	170	270	230	190	140	14	1/4	1/4	1/4	707	368	456
100-250 37/2	200L	100	100	310	310	37	200	271	210	185	300	250	250	200	18	1/4	1/4	1/4	657	294	351
100-250 45/2	225S/M	100	100	310	310	37	200	271	210	185	300	250	250	200	18	1/4	1/4	1/4	707	368	476
100-250 55/2	250S/M	100	100	310	310	37	200	301	210	185	300	250	250	200	18	1/4	1/4	1/4	783	368	541
100-250 75/2	250S/M	100	100	310	310	37	200	301	210	185	300	250	250	200	18	1/4	1/4	1/4	783	368	561
125-200 37/2	200L	125	125	330	330	35	226	268	210	170	300	250	250	200	18	1/4	1/4	1/4	657	294	348
125-200 45/2	225S/M	125	125	330	330	35	226	268	210	170	300	250	250	200	18	1/4	1/4	1/4	707	368	473
125-200 55/2	250S/M	125	125	330	330	35	226	298	210	170	300	250	250	200	18	1/4	1/4	1/4	783	368	538
125-200 75/2	250S/M	125	125	330	330	35	226	298	210	170	300	250	250	200	18	1/4	1/4	1/4	783	368	558
125-250 75/2	250S/M	125	125	350	350	30	240	180	225	195	300	250	250	200	18	1/4	1/4	1/4	783	368	580
125-250 90/2	280S/M	125	125	350	350	30	240	180	225	195	300	250	250	200	18	1/4	1/4	1/4	896	463	815
125-250 110/2	280S/M	125	125	350	350	30	240	220	225	195	300	250	250	200	18	1/4	1/4	1/4	896	463	850

Apex GC pumpsets

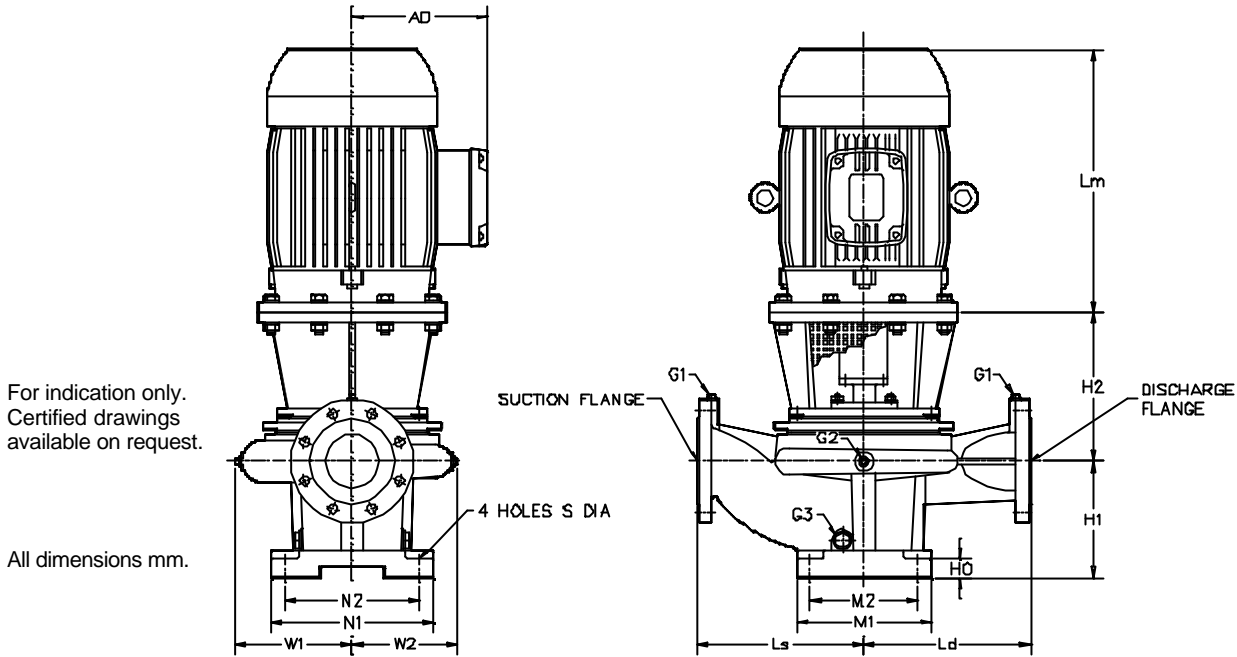
Outline dimensions



PUMP MODEL	MOTOR FRAME	FLANGES		PUMP DIMENSIONS							FOOT DIMENSIONS					PLUGS			MOTOR		KG
		IN	OUT	Ls	Ld	H0	H1	H2	W1	W2	N1	N2	M1	M2	S	G1	G2	G3	Lm	AD	
40-125 0.55/4	N80	40	40	150	150	5	150	166	120	108	270	230	180	140	14	1/4	1/4	1/4	255	129	36
50-160 0.55/4	N80	50	50	190	190	5	155	165	130	125	270	230	180	140	14	1/4	1/4	1/4	255	129	44
50-200 0.55/4	N80	50	50	210	210	5	150	169	145	145	270	230	180	140	14	1/4	1/4	1/4	255	129	52
50-200 0.75/4	N80	50	50	210	210	5	150	169	145	145	270	230	180	140	14	1/4	1/4	1/4	255	129	53
50-200 1.1/4	A90S	50	50	210	210	5	150	169	145	145	270	230	180	140	14	1/4	1/4	1/4	244	148	56
50-250 1.1/4	A90S	50	50	230	230	5	150	167	180	170	270	230	180	140	14	1/4	1/4	1/4	244	148	74
50-250 1.5/4	A90L	50	50	230	230	5	150	167	180	170	270	230	180	140	14	1/4	1/4	1/4	269	148	77
50-250 2.2/4	A100L	50	50	230	230	5	150	167	180	170	270	230	180	140	14	1/4	1/4	1/4	303	155	82
65-125 0.55/4	N80	65	65	185	175	5	160	168	125	116	270	230	180	140	14	1/4	1/4	1/4	255	129	41
65-160 0.55/4	N80	65	65	220	220	5	175	166	145	135	270	230	180	140	14	1/4	1/4	1/4	255	129	47
65-160 0.75/4	N80	65	65	220	220	5	175	166	145	135	270	230	180	140	14	1/4	1/4	1/4	255	129	48
65-200 0.75/4	N80	65	65	240	240	5	175	165	150	145	270	230	180	140	14	1/4	1/4	1/4	255	129	56
65-200 1.1/4	A90S	65	65	240	240	5	175	165	150	145	270	230	180	140	14	1/4	1/4	1/4	244	148	59
65-200 1.5/4	A90L	65	65	240	240	5	175	165	150	145	270	230	180	140	14	1/4	1/4	1/4	269	148	62
65-250 1.5/4	A90L	65	65	260	260	5	170	170	180	180	270	230	180	140	14	1/4	1/4	1/4	269	148	79
65-250 2.2/4	A100L	65	65	260	260	5	170	170	180	180	270	230	180	140	14	1/4	1/4	1/4	303	155	84
65-250 3.0/4	A100L	65	65	260	260	5	170	170	180	180	270	230	180	140	14	1/4	1/4	1/4	303	155	87
65-315 2.2/4	A100L	65	65	290	290	5	170	230	210	210	270	230	180	140	14	1/4	1/4	1/4	303	155	115
65-315 3.0/4	A100L	65	65	290	290	5	170	230	210	210	270	230	180	140	14	1/4	1/4	1/4	303	155	118
65-315 4.0/4	A112M	65	65	290	290	5	170	230	210	210	270	230	180	140	14	1/4	1/4	1/4	320	168	124
65-315 5.5/4	A132S	65	65	290	290	5	170	230	210	210	270	230	180	140	14	1/4	1/4	1/4	405	193	141
65-160A 0.75/4	N80	65	65	220	220	5	175	166	150	135	270	230	180	140	14	1/4	1/4	1/4	255	129	48
65-160A 1.1/4	A90S	65	65	220	220	5	175	166	150	135	270	230	180	140	14	1/4	1/4	1/4	244	148	51
65-160A 1.5/4	A90L	65	65	220	220	5	175	166	150	135	270	230	180	140	14	1/4	1/4	1/4	269	148	54
65-200A 1.1/4	A90S	65	65	240	240	5	166	172	175	155	270	230	180	140	14	1/4	1/4	1/4	244	148	59
65-200A 1.5/4	A90L	65	65	240	240	5	166	172	175	155	270	230	180	140	14	1/4	1/4	1/4	269	148	62
65-200A 2.2/4	A100L	65	65	240	240	5	166	172	175	155	270	230	180	140	14	1/4	1/4	1/4	303	155	67
65-250A 2.2/4	A100L	65	65	260	260	5	170	170	185	170	270	230	180	140	14	1/4	1/4	1/4	303	155	84
65-250A 3.0/4	A100L	65	65	260	260	5	170	170	185	170	270	230	180	140	14	1/4	1/4	1/4	303	155	87

Apex GC pumpsets

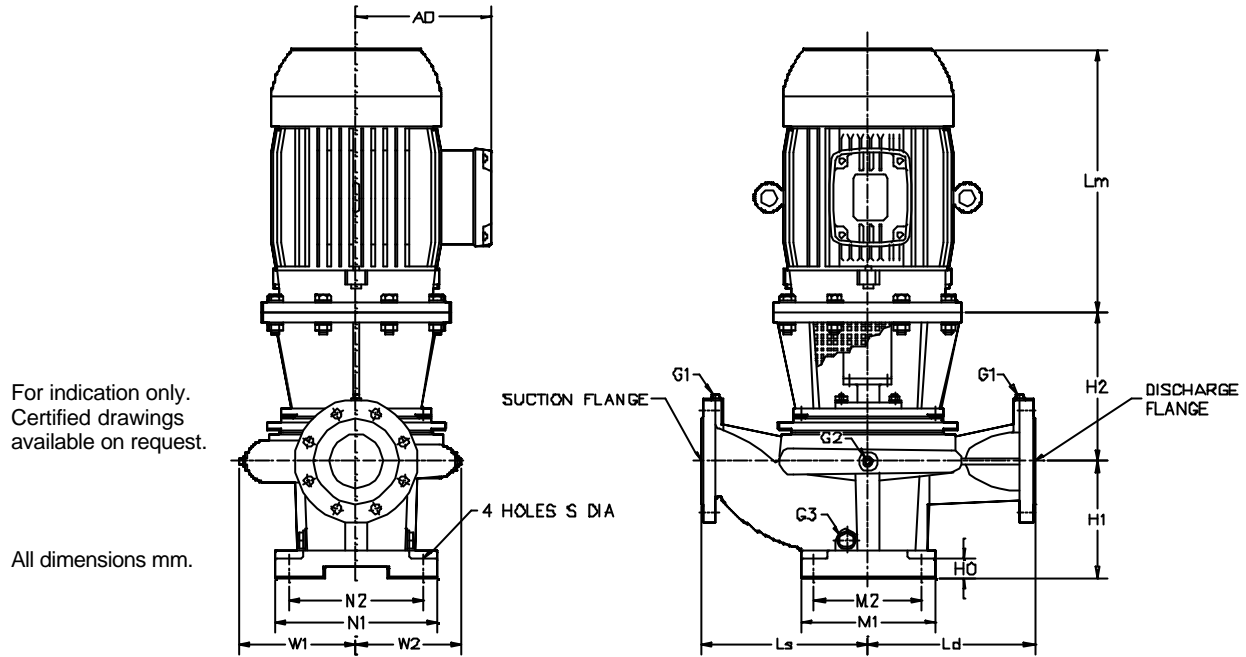
Outline dimensions



PUMP MODEL	MOTOR FRAME	FLANGES		PUMP DIMENSIONS							FOOT DIMENSIONS					PLUGS			MOTOR		
		IN	OUT	Ls	Ld	H0	H1	H2	W1	W2	N1	N2	M1	M2	S	G1	G2	G3	Lm	AD	KG
65-250A 4.0/4	A112M	65	65	260	260	5	170	170	185	170	270	230	180	140	14	1/4	1/4	1/4	320	168	93
65-250A 5.5/4	A132S	65	65	260	260	5	170	170	185	170	270	230	180	140	14	1/4	1/4	1/4	405	193	110
65-315A 4.0/4	A112M	65	65	290	290	6	170	230	215	215	270	230	180	140	14	1/4	1/4	1/4	320	168	126
65-315A 5.5/4	A132S	65	65	290	290	6	170	230	215	215	270	230	180	140	14	1/4	1/4	1/4	405	193	143
65-315A 7.5/4	A132M	65	65	290	290	6	170	230	215	215	270	230	180	140	14	1/4	1/4	1/4	405	193	152
65-315A 11/4	A160M	65	65	290	290	6	170	270	215	215	270	230	180	140	14	1/4	1/4	1/4	517	250	178
80-160 1.1/4	A90S	80	80	240	240	6	190	178	170	140	270	230	190	140	14	1/4	1/4	1/4	244	148	58
80-160 1.5/4	A90L	80	80	240	240	6	190	178	170	140	270	230	190	140	14	1/4	1/4	1/4	269	148	61
80-160 2.2/4	A100L	80	80	240	240	6	190	178	170	140	270	230	190	140	14	1/4	1/4	1/4	303	155	66
80-200 1.5/4	A90L	80	80	260	260	6	190	172	178	155	270	230	190	140	14	1/4	1/4	1/4	269	148	70
80-200 2.2/4	A100L	80	80	260	260	6	190	172	178	155	270	230	190	140	14	1/4	1/4	1/4	303	155	75
80-200 3.0/4	A100L	80	80	260	260	6	190	172	178	155	270	230	190	140	14	1/4	1/4	1/4	303	155	78
80-200 4.0/4	A112M	80	80	260	260	6	190	172	178	155	270	230	190	140	14	1/4	1/4	1/4	320	168	84
80-250 3.0/4	A100L	80	80	290	290	6	200	170	200	180	270	230	190	140	14	1/4	1/4	1/4	303	155	110
80-250 4.0/4	A112M	80	80	290	290	6	200	170	200	180	270	230	190	140	14	1/4	1/4	1/4	320	168	116
80-250 5.5/4	A132S	80	80	290	290	6	200	170	200	180	270	230	190	140	14	1/4	1/4	1/4	405	193	133
80-250 7.5/4	A132M	80	80	290	290	6	200	170	200	180	270	230	190	140	14	1/4	1/4	1/4	405	193	142
80-315 7.5/4	A132M	80	80	310	310	30	200	225	300	215	300	250	250	200	18	1/4	1/4	1/4	405	193	160
80-315 11/4	A160M	80	80	310	310	30	200	255	300	215	300	250	250	200	18	1/4	1/4	1/4	517	250	186
100-160 1.5/4	A90L	100	100	260	260	6	220	170	183	145	270	230	190	140	14	1/4	1/4	1/4	269	148	70
100-160 2.2/4	A100L	100	100	260	260	6	220	170	183	145	270	230	190	140	14	1/4	1/4	1/4	303	155	75
100-160 3.0/4	A100L	100	100	260	260	6	220	170	183	145	270	230	190	140	14	1/4	1/4	1/4	303	155	78
100-200 3.0/4	A100L	100	100	290	290	6	220	177	210	170	270	230	190	140	14	1/4	1/4	1/4	303	155	95
100-200 4.0/4	A112M	100	100	290	290	6	220	177	210	170	270	230	190	140	14	1/4	1/4	1/4	320	168	101
100-200 5.5/4	A132S	100	100	290	290	6	220	177	210	170	270	230	190	140	14	1/4	1/4	1/4	405	193	118
100-250 4.0/4	A112M	100	100	310	310	37	216	168	210	185	300	250	250	200	18	1/4	1/4	1/4	320	168	121
100-250 5.5/4	A132S	100	100	310	310	37	216	168	210	185	300	250	250	200	18	1/4	1/4	1/4	405	193	138
100-250 7.5/4	A132M	100	100	310	310	37	216	168	210	185	300	250	250	200	18	1/4	1/4	1/4	405	193	147
100-250 11/4	A160M	100	100	310	310	37	216	208	210	185	300	250	250	200	18	1/4	1/4	1/4	517	250	173

Apex GC pumpsets

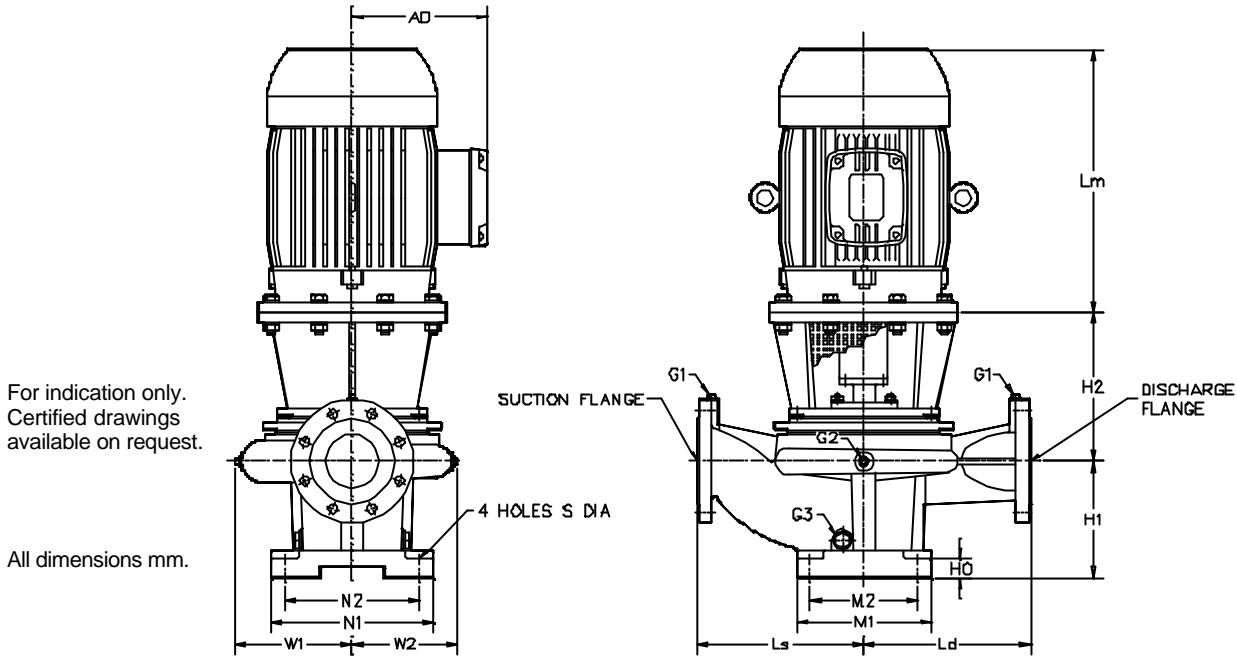
Outline dimensions



PUMP MODEL	MOTOR FRAME	FLANGES		PUMP DIMENSIONS							FOOT DIMENSIONS					PLUGS			MOTOR		KG
		IN	OUT	Ls	Ld	H0	H1	H2	W1	W2	N1	N2	M1	M2	S	G1	G2	G3	Lm	AD	
100-315 7.5/4	A132M	100	100	340	340	37	220	225	250	220	300	250	250	200	18	1/4	1/4	1/4	405	193	160
100-315 11/4	A160M	100	100	340	340	37	220	255	250	220	300	250	250	200	18	1/4	1/4	1/4	517	250	186
100-315 15/4	A160L	100	100	340	340	37	220	255	250	220	300	250	250	200	18	1/4	1/4	1/4	517	250	207
100-315 18.5/4	A180M	100	100	340	340	37	220	255	250	220	300	250	250	200	18	1/4	1/4	1/4	578	291	229
125-200 4.0/4	A112M	125	125	330	330	35	226	176	210	170	300	250	250	200	18	1/4	1/4	1/4	320	168	118
125-200 5.5/4	A132S	125	125	330	330	35	226	176	210	170	300	250	250	200	18	1/4	1/4	1/4	405	193	135
125-200 7.5/4	A132M	125	125	330	330	35	226	176	210	170	300	250	250	200	18	1/4	1/4	1/4	405	193	144
125-250 5.5/4	A132S	125	125	350	350	30	240	180	225	195	300	250	250	200	18	1/4	1/4	1/4	405	193	157
125-250 7.5/4	A132M	125	125	350	350	30	240	180	225	195	300	250	250	200	18	1/4	1/4	1/4	405	193	166
125-250 11/4	A160M	125	125	350	350	30	240	220	225	195	300	250	250	200	18	1/4	1/4	1/4	517	250	192
125-250 15/4	A160L	125	125	350	350	30	240	220	225	195	300	250	250	200	18	1/4	1/4	1/4	517	250	213
125-315 7.5/4	A132M	125	125	360	360	35	250	230	260	235	300	250	250	200	18	1/4	1/4	1/4	405	193	176
125-315 11/4	A160M	125	125	360	360	35	250	260	260	235	300	250	250	200	18	1/4	1/4	1/4	517	250	202
125-315 15/4	A160L	125	125	360	360	35	250	260	260	235	300	250	250	200	18	1/4	1/4	1/4	517	250	223
125-315 18.5/4	A180M	125	125	360	360	35	250	260	260	235	300	250	250	200	18	1/4	1/4	1/4	578	291	245
125-315 22/4	A180L	125	125	360	360	35	250	260	260	235	300	250	250	200	18	1/4	1/4	1/4	578	291	260
125-400 22/4	A180L	125	125	420	390	23	250	270	290	260	300	250	250	200	18	3/8	3/8	3/8	578	291	262
125-400 30/4	200L	125	125	420	390	23	250	270	290	260	300	250	250	200	18	3/8	3/8	3/8	657	294	362
125-400 37/4	200L	125	125	420	390	23	250	300	290	260	300	250	250	200	18	3/8	3/8	3/8	657	294	392
150-200 5.5/4	A132S	150	150	370	370	35	270	182	245	200	300	250	250	200	18	1/4	1/4	1/4	405	193	145
150-200 7.5/4	A132M	150	150	370	370	35	270	182	245	200	300	250	250	200	18	1/4	1/4	1/4	405	193	154
150-200 11/4	A160M	150	150	370	370	35	270	222	245	200	300	250	250	200	18	1/4	1/4	1/4	517	250	180
150-250 11/4	A160M	150	150	400	360	35	335	216	260	220	300	250	250	200	18	1/4	1/4	1/4	517	250	197
150-250 15/4	A160L	150	150	400	360	35	335	216	260	220	300	250	250	200	18	1/4	1/4	1/4	517	250	218
150-250 18.5/4	A180M	150	150	400	360	35	335	216	260	220	300	250	250	200	18	1/4	1/4	1/4	578	291	240
150-250 22/4	A180L	150	150	400	360	35	335	216	260	220	300	250	250	200	18	1/4	1/4	1/4	578	291	255
150-315 15/4	A160L	150	150	420	380	23	270	270	265	225	300	250	250	200	18	3/8	3/8	3/8	517	250	258
150-315 18.5/4	A180M	150	150	420	380	23	270	270	265	225	300	250	250	200	18	3/8	3/8	3/8	578	291	280
150-315 22/4	A180L	150	150	420	380	23	270	270	265	225	300	250	250	200	18	3/8	3/8	3/8	578	291	295
150-315 30/4	200L	150	150	420	380	23	270	270	265	225	300	250	250	200	18	3/8	3/8	3/8	657	294	395

Apex GC pumpsets

Outline dimensions



PUMP MODEL	MOTOR FRAME	FLANGES		PUMP DIMENSIONS							FOOT DIMENSIONS					PLUGS			MOTOR		KG
		IN	OUT	Ls	Ld	H0	H1	H2	W1	W2	N1	N2	M1	M2	S	G1	G2	G3	Lm	AD	
150-400 30/4	200L	150	150	450	400	28	260	270	295	270	300	250	250	200	24	3/8	3/8	3/8	657	294	429
150-400 37/4	200L	150	150	450	400	28	260	300	295	270	300	250	250	200	24	3/8	3/8	3/8	657	294	459
150-400 45/4	225S/M	150	150	450	400	28	260	300	295	270	300	250	250	200	24	3/8	3/8	3/8	707	368	569
150-400 55/4	250S/M	150	150	450	400	28	260	300	295	270	300	250	250	200	24	3/8	3/8	3/8	783	368	649
200-250 18.5/4	A180M	200	200	450	385	30	280	270	260	210	350	300	300	250	18	1/4	1/4	1/4	578	291	275
200-250 22/4	A180L	200	200	450	385	30	280	270	260	210	350	300	300	250	18	1/4	1/4	1/4	578	291	290
200-250 30/4	200L	200	200	450	385	30	280	270	260	210	350	300	300	250	18	1/4	1/4	1/4	657	294	390
200-315 22/4	A180L	200	200	450	430	30	290	270	280	225	350	300	300	250	18	1/4	1/4	3/8	578	291	315
200-315 30/4	200L	200	200	450	430	30	290	270	280	225	350	300	300	250	18	1/4	1/4	3/8	657	294	415
200-315 37/4	200L	200	200	450	430	30	290	300	280	225	350	300	300	250	18	1/4	1/4	3/8	657	294	445
200-315 45/4	225S/M	200	200	450	430	30	290	300	280	225	350	300	300	250	18	1/4	1/4	3/8	707	368	555
200-315 55/4	250S/M	200	200	450	430	30	290	300	280	225	350	300	300	250	18	1/4	1/4	3/8	783	368	635
200-400 37/4	200L	200	200	500	450	30	290	270	330	290	420	340	360	280	24	3/8	3/8	3/8	657	294	470
200-400 45/4	225S/M	200	200	500	450	30	290	300	330	290	420	340	360	280	24	3/8	3/8	3/8	707	368	580
200-400 55/4	250S/M	200	200	500	450	30	290	300	330	290	420	340	360	280	24	3/8	3/8	3/8	783	368	660
200-400 75/4	250S/M	200	200	500	450	30	290	300	330	290	420	340	360	280	24	3/8	3/8	3/8	783	368	710
250-250 37/4	200L	250	250	520	480	30	350	286	240	215	500	420	420	340	28	1/4	1/4	3/8	657	294	500
250-250 45/4	225S/M	250	250	520	480	30	350	316	240	215	500	420	420	340	28	1/4	1/4	3/8	707	368	610
250-250 55/4	250S/M	250	250	520	480	30	350	316	240	215	500	420	420	340	28	1/4	1/4	3/8	783	368	690
250-315 45/4	225S/M	250	250	525	475	34	333	352	325	255	420	340	360	280	28	3/8	3/8	3/8	707	368	631
250-315 55/4	250S/M	250	250	525	475	34	333	352	325	255	420	340	360	280	28	3/8	3/8	3/8	783	368	711
250-315 75/4	250S/M	250	250	525	475	34	333	352	325	255	420	340	360	280	28	3/8	3/8	3/8	783	368	761
250-400 75/4	250S/M	250	250	560	520	34	334	346	360	350	500	420	400	320	28	3/8	3/8	3/8	783	368	805
250-400 90/4	280S/M	250	250	560	520	34	334	346	360	350	500	420	400	320	28	3/8	3/8	3/8	896	463	1090
250-400 110/4	280S/M	250	250	560	520	34	334	346	360	350	500	420	400	320	28	3/8	3/8	3/8	896	463	1075
250-400 132/4	280S/M	250	250	560	520	34	334	346	360	350	500	420	400	320	28	3/8	3/8	3/8	896	463	1235
300-315 45/4	225S/M	300	300	580	500	34	365	352	370	290	500	420	400	320	26	1/4	1/4	1/4	707	368	691
300-315 55/4	250S/M	300	300	580	500	34	365	352	370	290	500	420	400	320	26	1/4	1/4	1/4	783	368	771
300-315 75/4	250S/M	300	300	580	500	34	365	352	370	290	500	420	400	320	26	1/4	1/4	1/4	783	368	821
300-400 110/4	280S/M	300	300	620	540	34	365	361	420	340	500	420	400	320	28	1/4	1/4	1/4	896	463	1170
300-400 132/4	280S/M	300	300	620	540	34	365	361	420	340	500	420	400	320	28	1/4	1/4	1/4	896	463	1330
300-400 160/4	315S/M	300	300	620	540	34	365	391	420	340	500	420	400	320	28	1/4	1/4	1/4	986	492	1400