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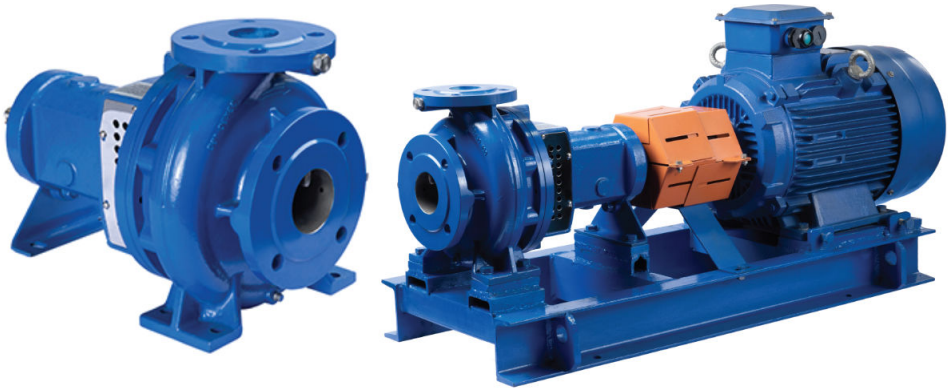
Let's Solve Water

EN

Technical Specification

90037201_1.0



Series 1710

60Hz

GOULDS WATER TECHNOLOGY
a xylem brand

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1 Product Description

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1.1 General description

1710 Series is foot mounted, single stage and end suction pump with back pull-out design and is in accordance with the international standard ISO 2858.

It comes in frame mounted series applicable for flexible coupling (optional Flexible spacer coupling) and Stub shaft coupling. Bare shaft option to be coupled to any standard IEC motor to substitute an existing ISO 2858 pump.

1.2 Pump application

Designed for non-combustible, low viscosity liquids, free of solids, abrasive materials, and fibers. Different chemical compositions are capable of being pumped by using different construction and seal options.

This highly efficient and flexible design makes the 1710 Series pump ideal for a wide range of pumping applications, including non-listed fire pump, HVAC, Industrial secondary process, Water transfer and more.

Operating conditions:

- Flowrate: max 2100 m³/h
- Pump head: max 160 m
- Fluid temp: -15°C to 120°C
- Max rating: 355 kW

For other applications, contact your local sales and service representative.

Improper use



WARNING:

Improper use of the pump may create dangerous conditions and cause personal injury and damage to property.

An improper use of the product leads to the loss of the warranty.

Examples of improper use:

- Liquids not compatible with the pump construction materials
- Hazardous liquids (such as toxic, explosive, flammable, or corrosive liquids)
- Potable liquids other than water (for example, wine or milk)
- Liquids that are generated by gases that are not classified as IIB explosion group as listed in Annex B of IEC 60079-20-1:2010.

Examples of improper installation:

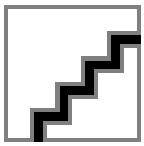
- Hazardous locations (such as explosive, or corrosive atmospheres).
- Location where the air temperature is very high or there is poor ventilation.
- Outdoor installations where there is no protection against rain or freezing temperatures.
- Locations where the water temperature is very high.



DANGER:

Do not use this pump to handle flammable and/or explosive liquids.

Cut hazard. During operation, do not put your hands in the lower part of the pump.



Other:

Do NOT install this pump in swimming pools or marine areas. Failure to follow these instructions could result in serious personal injury, death and/or property damage.

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NOTICE:

- Do not use this pump to handle liquids containing abrasive, solid, or fibrous substances.
- Do not use the pump for flow rates beyond the specified flow rates on the data plate.

Special applications

Contact the local sales and service representative in the following cases:

- If the density and/or viscosity value of the pumped liquid exceeds the value of water, such as water with glycol; as it may require a more powerful motor.
- If the pumped liquid is chemically treated (for example softened, deionized, demineralized etc.).
- If the pump will be installed horizontally, a special version and mounting brackets must be requested.
- Any situation that is different from the ones that is described and relate to the nature of the liquid.

Contact the local sales and service representative.

1.3 Pump denomination and construction features

Identification Code

1	2	3 4 5	6	7	8	9	10	11	12	13	14	15	16	17	18
1710	F	125 - 100 - 200	G	45kW	2P	/A	3	F	A	A	A	C	T	4	N

1. Pump Type (4 digits)
   1710= Series name
2. Coupling (1 digit)
   [F] = Flexible coupling frame mounted
   [C] = Flexible spacer coupling frame mounted
   [S] = Stub Shaft Coupling
   [ ] = Bare Shaft
3. Suction Size in mm (2~3 digits)
4. Discharge Size in mm (2~3 digits)
5. Nominal Impeller Size in mm (3 digits)
6. Lubrication (1 digit)
   [G]* = Greased Lubricated
   [O]* = Oil Lubricated
   [ ]** = NA
7. Motor rating kW (3~6 digits)
8. Number of Motor Poles (2 digits)
   2P
   4P
   6P*
9. Motor brand (1 digit)
   [A] = Siemens
   [B] = Other
   [C]*** = NA
10. Motor efficiency class (1 digit)
    [3] = IE3
    [4] = IE4
    [0]*** = NA
11. Motor Insulation class (1 digit)
    [F] = F Class
    [H] = H Class
    [X]*** = NA
12. Motor winding protection code (1 digit)
    [A] = No
    [B] = PTC
    [C] = PT100
    [X]*** = NA
13. Motor Anticondensation heater (1 digit)
    [A] = No
    [B] = Yes
    [X]*** = NA
14. Motor Separately Driver Fan (1 digit)
    [A] = No
    [B] = Yes
    [X]*** = NA
15. Casing Material (1 digit)
    [C] = Cast Iron
    [D] = Ductile Iron
    [N] = SS316
    [T] = SS304
    [R] = Super Duplex
16. Impeller Material (1 digit)
    [B] = Bronze
    [N] = SS316
    [T] = SS304
    [R] = Super Duplex
17. Seal material (1 digit)
    [4] = Carbon/Ceramic/FPM
    [Z] = SiC/SiC/FPM
    [P]* = Gland Packing
18. Working Pressure (1 digit)
    [N] = PN16
    [H] = PN25

* Available for Coupling option [F] & [C]

** Available for Coupling option [S]

***Available for Coupling option [ ]

COMPONENT	STANDARD OPTION	OTHER AVAILABLE OPTION			
Casing	Cast Iron	Ductile Iron	304 SS	316 SS	Super Duplex
Shaft (seal on shaft)	420 SS	Duplex SS			
Shaft (seal on sleeve)*	420 SS	4135			
Impeller	304 SS	Bronze C87600	316 SS	Super Duplex	
Casing Wear Rings	Bronze C90300	304 SS	316 SS	Super Duplex	
Mechanical Seal	Carbon/ Ceramic/FPM	SiC/SiC/FPM			
Shaft Sleeves*	304 SS	316 SS		Duplex SS	
Shaft sleeve nuts*	304 SS	316 SS		Duplex SS	
Packing*	PTFE	—			
Lantern ring*	304 SS	—			
Seal flush lines*	304 SS	316 SS			

Large choice of casing and impeller material combinations, both PN16 and PN25, wide range of shaft sealing solutions to solve different needs in the industrial market.

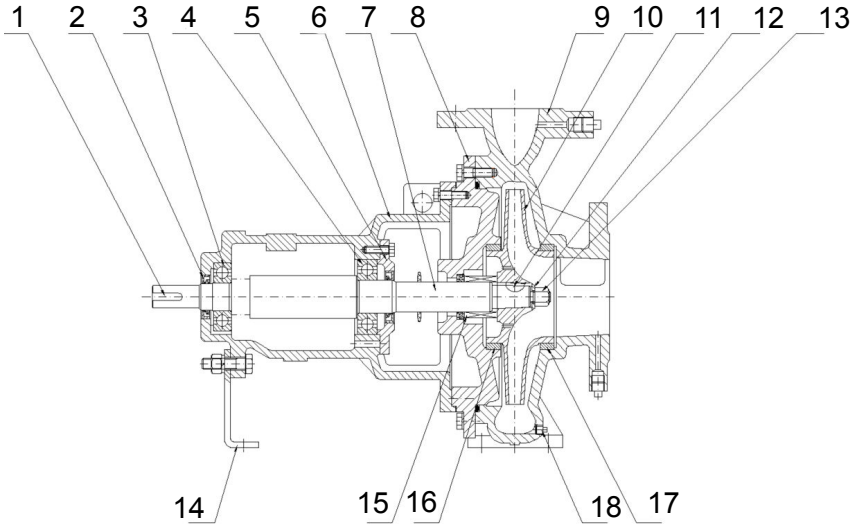
Flanges

The flanges are drilled to EN1092/ISO7005, PN16. To enhance versatility, we can deliver PN25 drilled flanges and ASME B16.5 compatible drilled flanges, Class 150 and 300.

Bearing Housing and Bearings

1710 Standard features include a removable bearing cap on the non-drive end and lip seals fitted to both drive and non-drive ends in order to minimize the ingress of foreign liquids and materials. Bearings are normal bearings with pre-packed grease. Alternative bearing manufacturers and lubrication methods are available upon request.

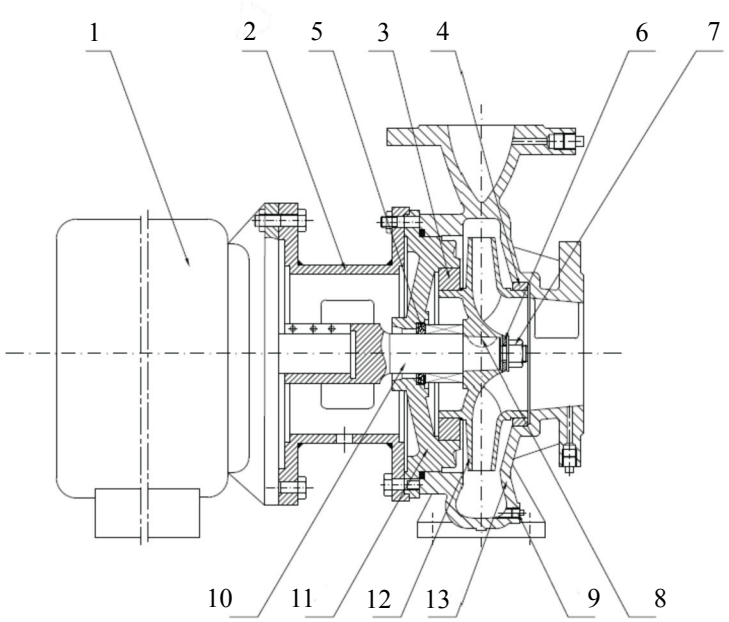
1710 - Pump End Only Construction



1. Coupling Key	10. Impeller
2. Oil Seal-Drive End	11. Half Round Key
3. Bearing-Drive End	12. Impeller Washer
4. Bearing-Impeller End	13. Impeller Nut
5. Bearing Cover	14. Foot Support
6. Bearing Housing	15. Mechanical Seal
7. Shaft	16. Rear Wear Ring*
8. Back Plate	17. Front Wear Ring
9. Pump Casing	18. Drain Plug

*Note: Group 4, 1710 has no rear wear ring.

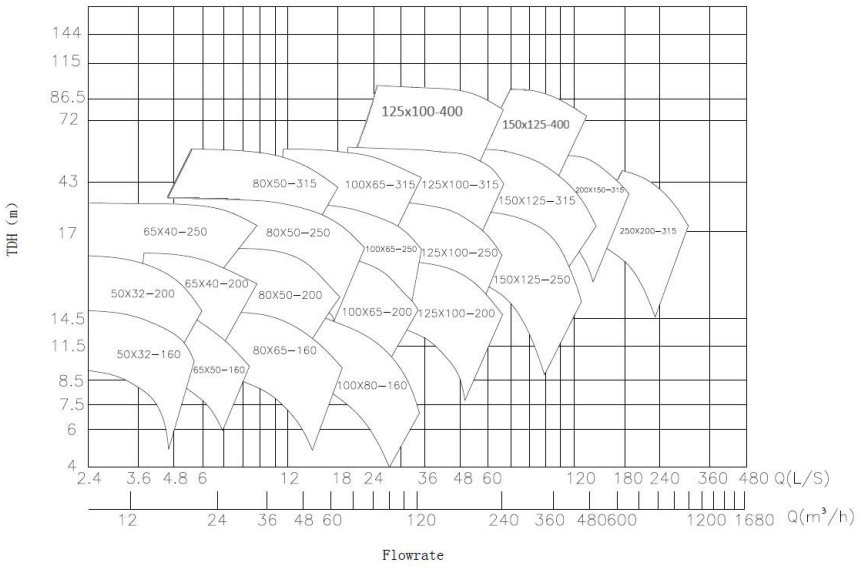
Stub Shaft Construction



1. Motor	8. Impeller Key
2. Motor Adaptor	9. Drain Plug
3. Rear Wear Ring	10. Stub Shaft
4. Front Wear Ring	11. Back Plate
5. Mechanical Seal	12. Impeller
6. Impeller Washer	13. Pump Casing
7. Impeller Nut	

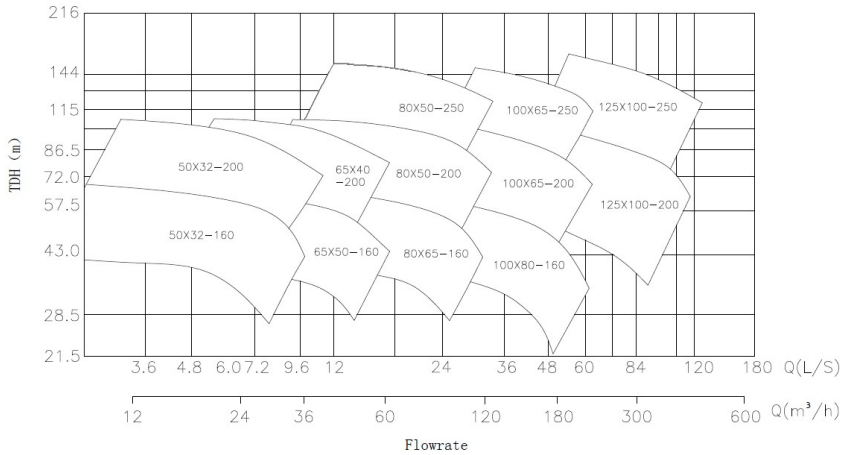
2 1710 End suction centrifugal pump - 60Hz performance range

1710	1750 rpm	ISO 9906:2012 - Grade 3B



WS014695A

1710	3500 rpm	ISO 9906:2012 - Grade 3B



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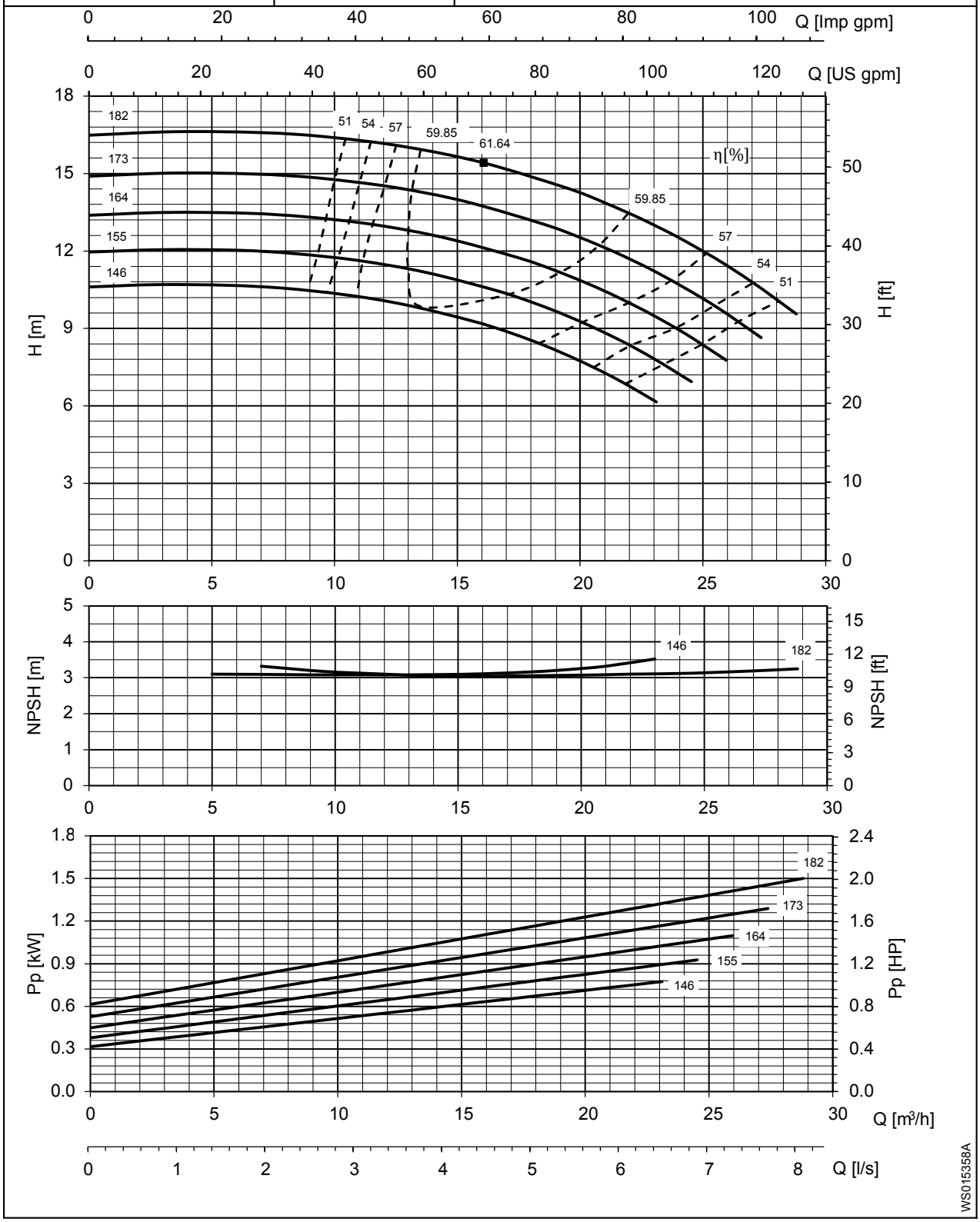
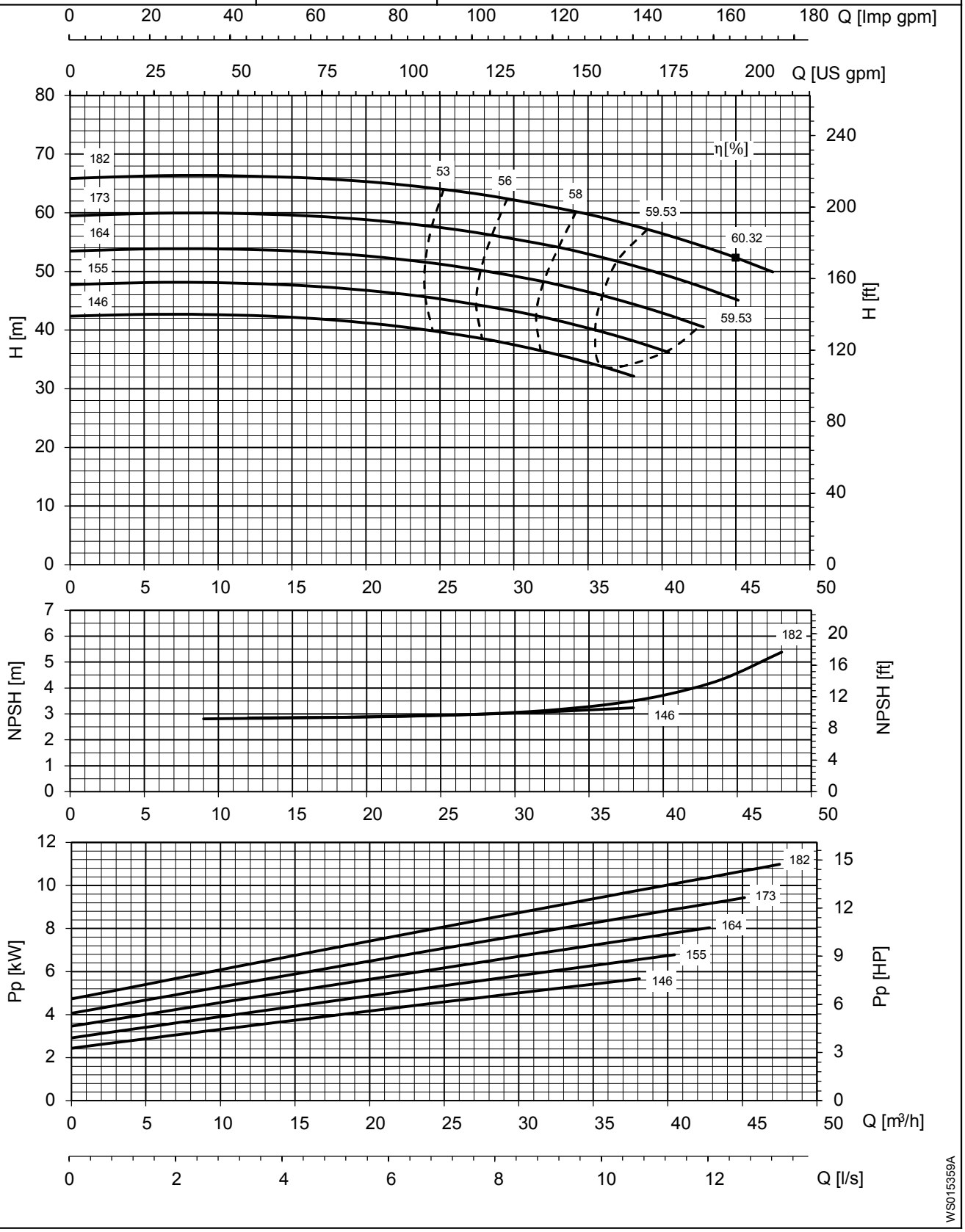
1710 End suction centrifugal pump - pump performance curves

1710 50x32-160	1750 rpm; 60 Hz	ISO 9906:2012 - Grade 3B



The NPSH values are laboratory values, it is suggested to increase the values by 0.5 m for practical use.
These performance curves are valid for liquids with density = 0.1 kg/dm^3 and kinematic viscosity = 1 mm^2/sec.

1710 50x32-160	3500 rpm; 60 Hz	ISO 9906:2012 - Grade 3B



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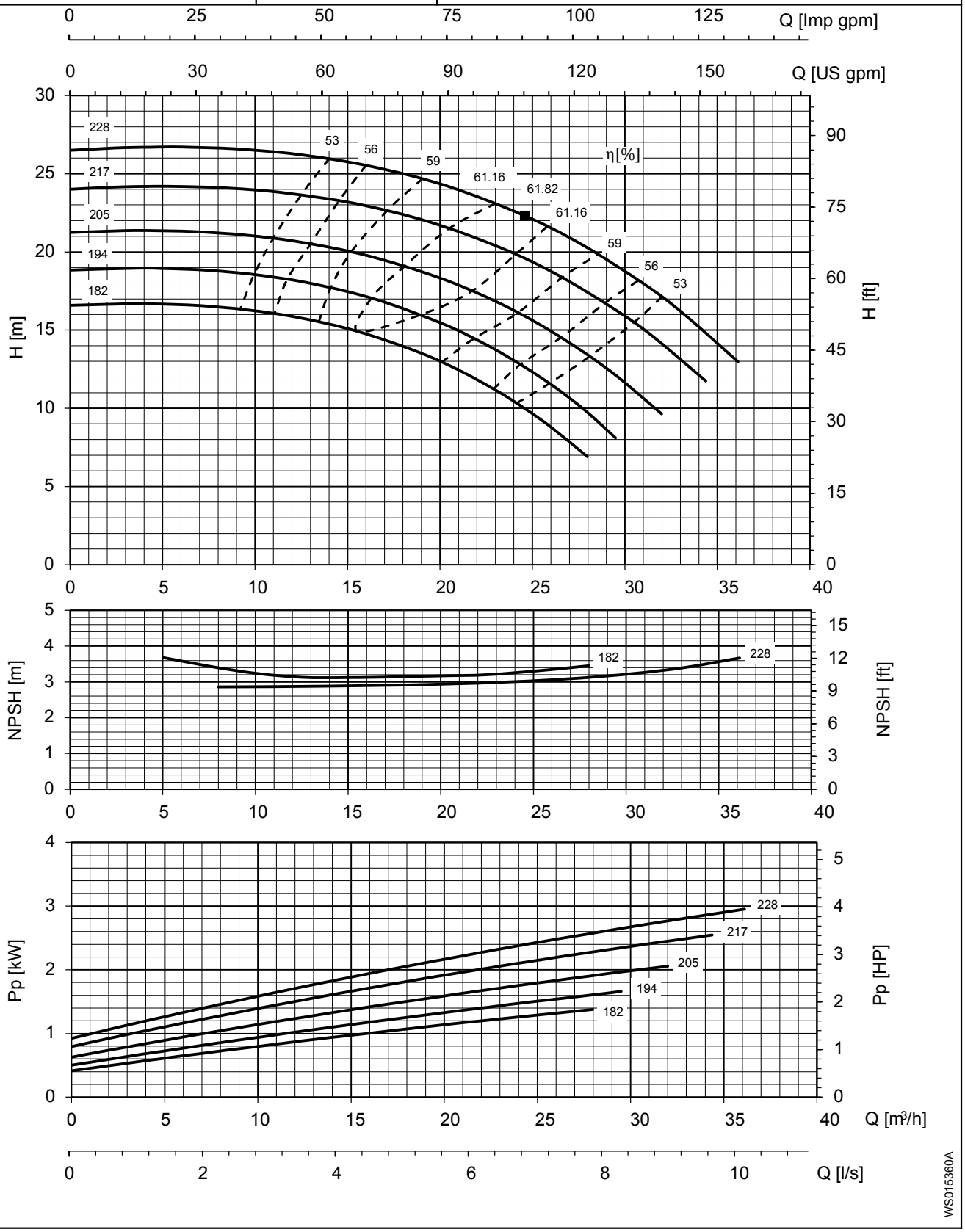
1710 50x32-200	1750 rpm; 60 Hz	ISO 9906:2012 - Grade 3B



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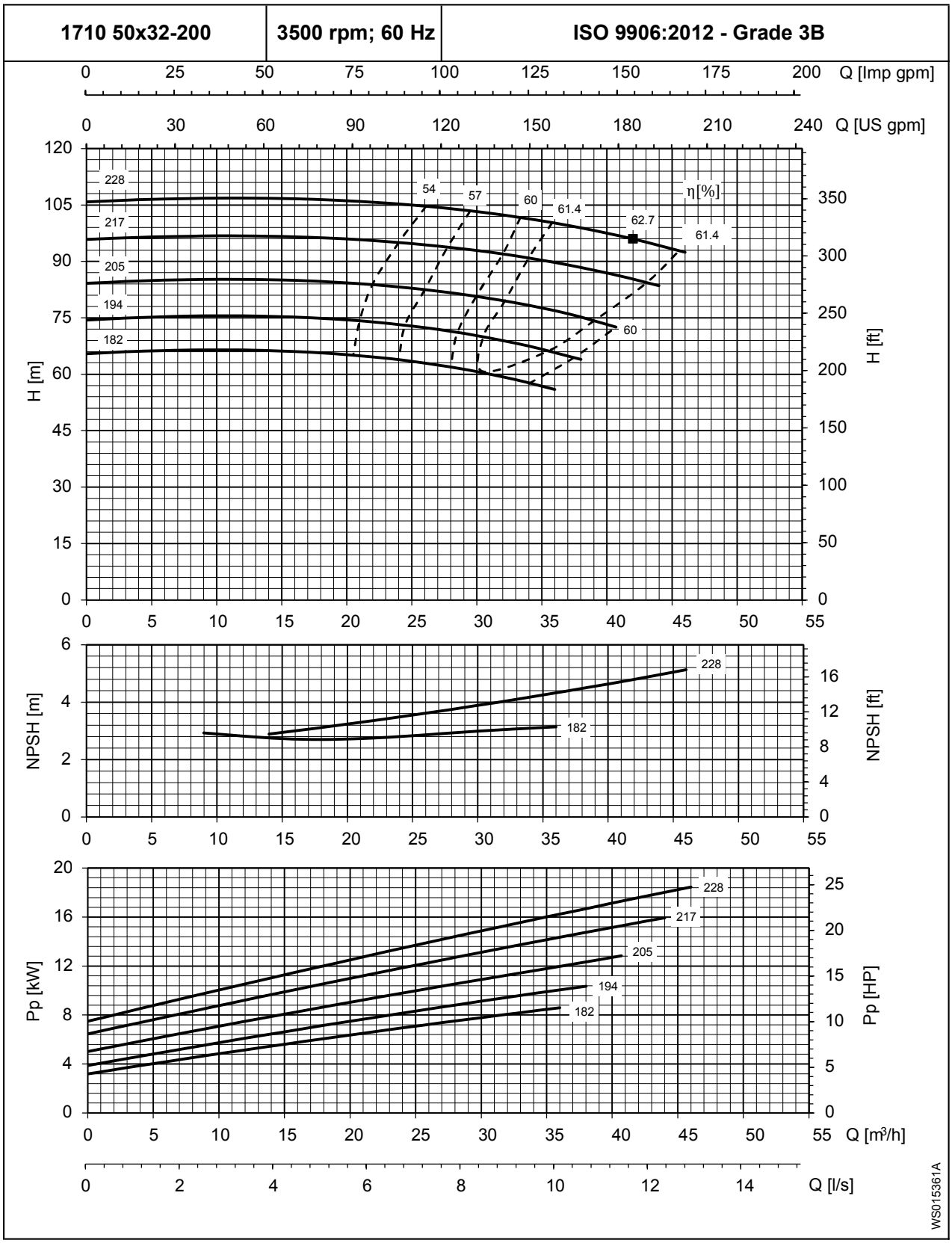
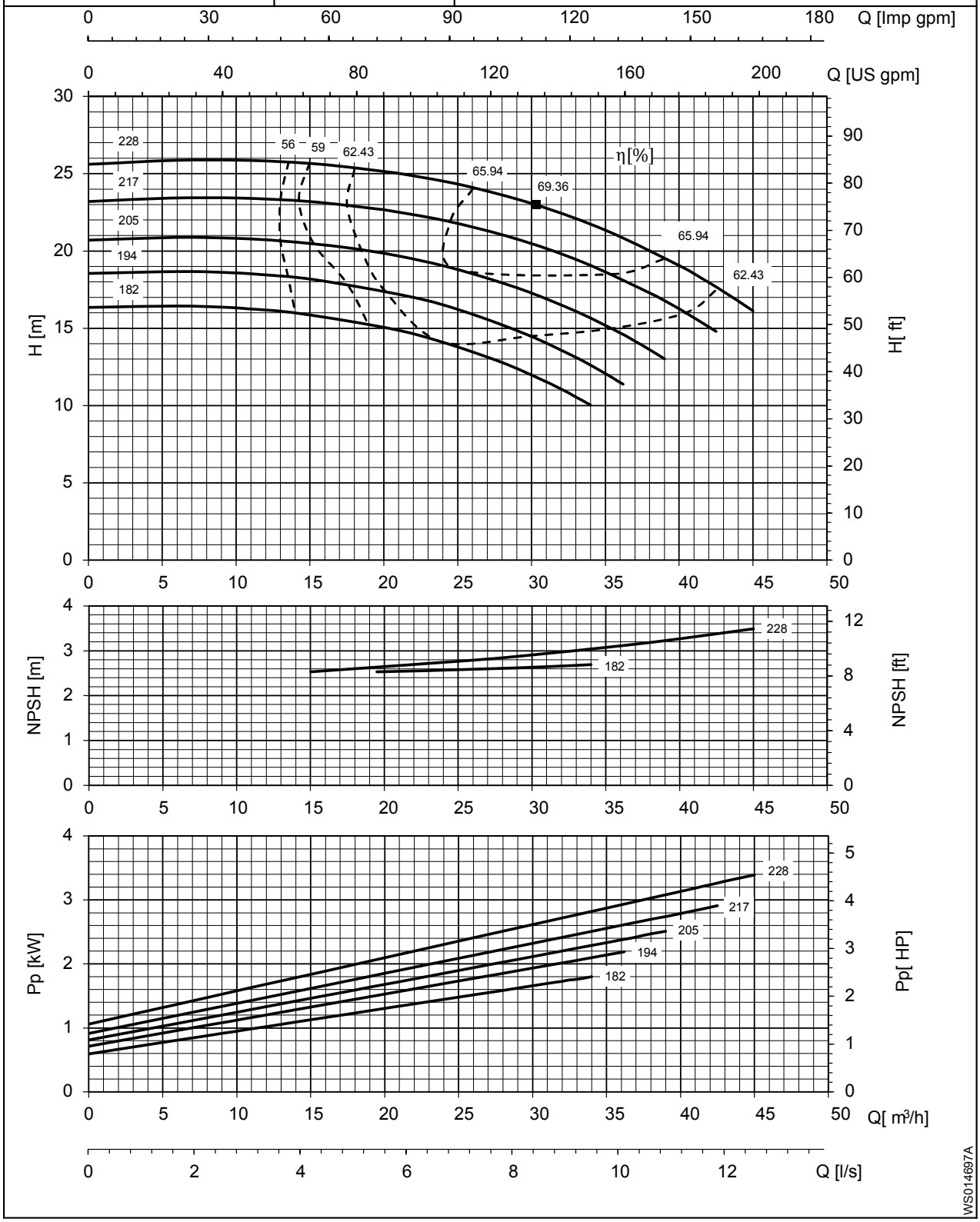


The NPSH values are laboratory values, it is suggested to increase the values by 0.5 m for practical use.
These performance curves are valid for liquids with density = 0.1 kg/dm^3 and kinematic viscosity = 1 mm^2/sec.

1710 65x40-200	1750 rpm; 60 Hz	ISO 9906:2012 - Grade 3B



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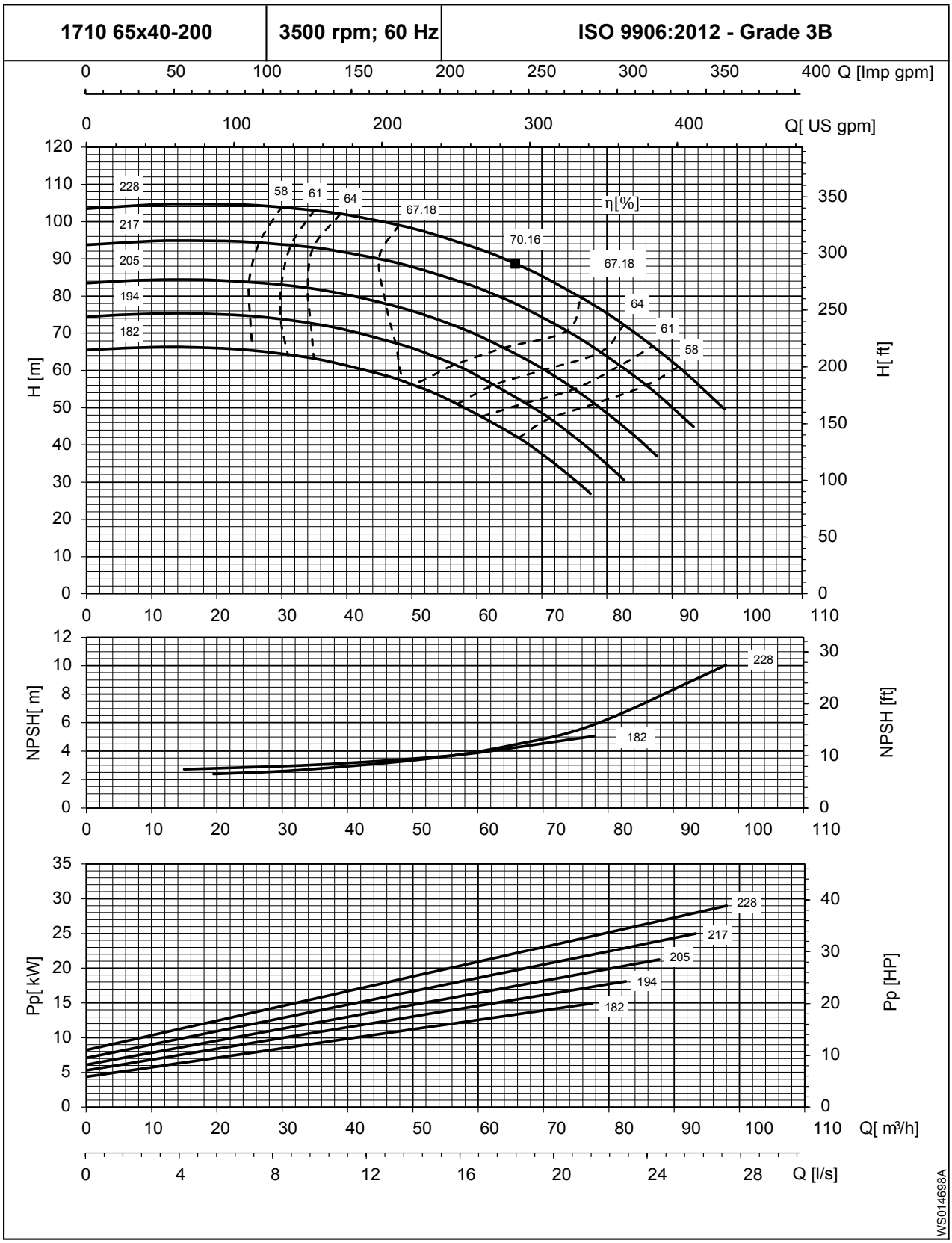
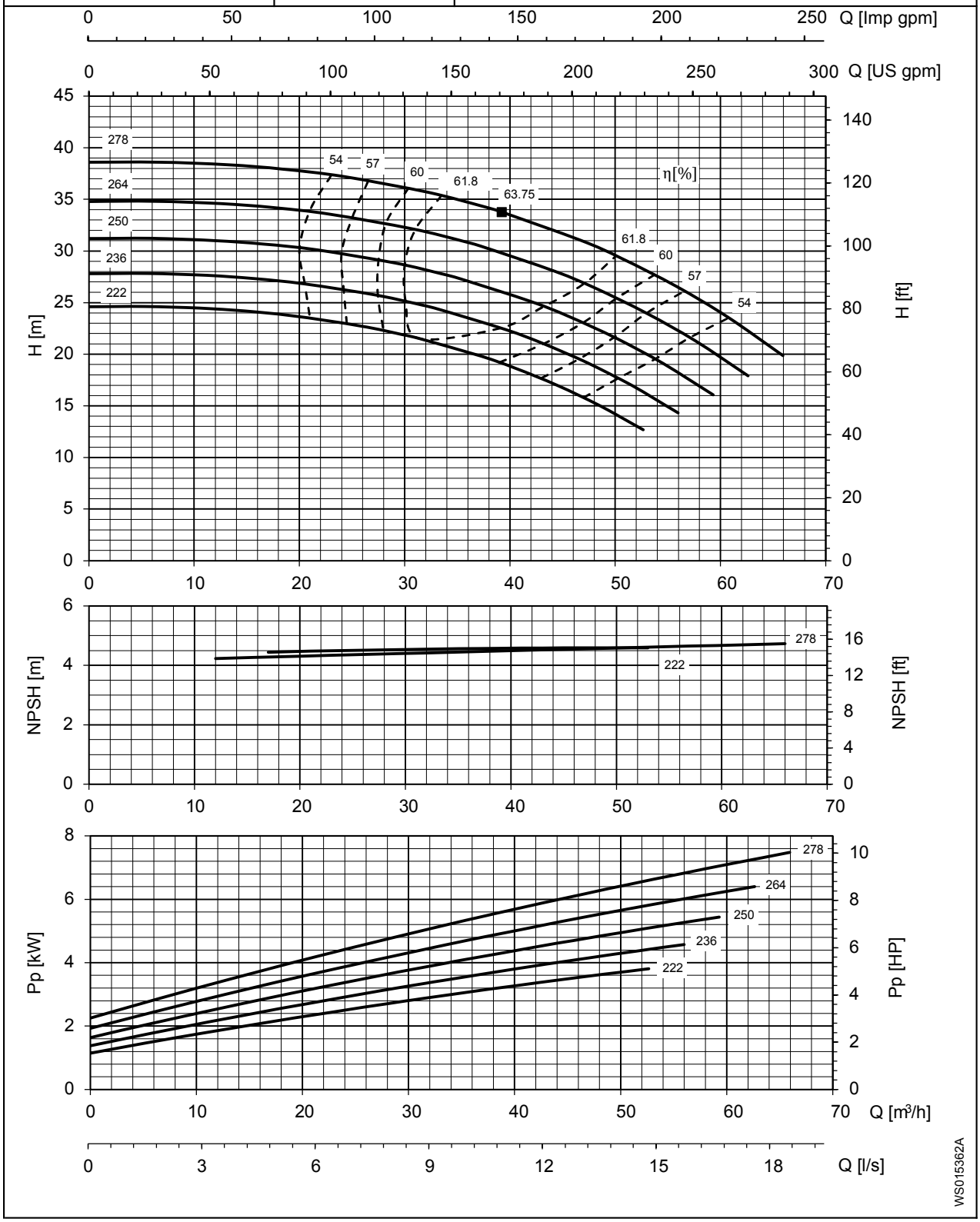
These performance curves are valid for liquids with density = 0.1 kg/dm^3 and kinematic viscosity = 1 mm^2/sec.



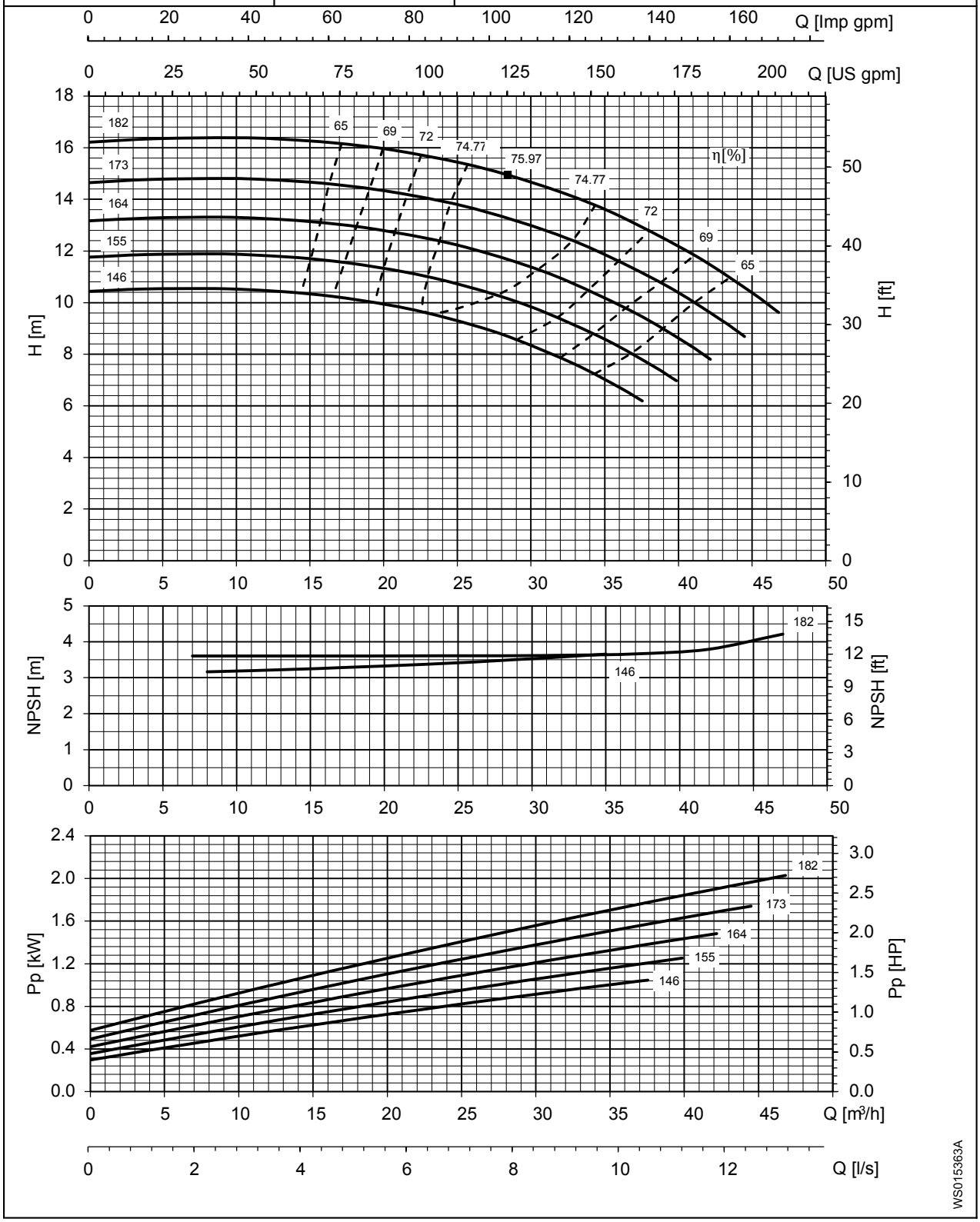
The NPSH values are laboratory values, it is suggested to increase the values by 0.5 m for practical use.
These performance curves are valid for liquids with density = 0.1 kg/dm^3 and kinematic viscosity = 1 mm^2/sec.

1710 65x40-250	1750 rpm; 60 Hz	ISO 9906:2012 - Grade 3B



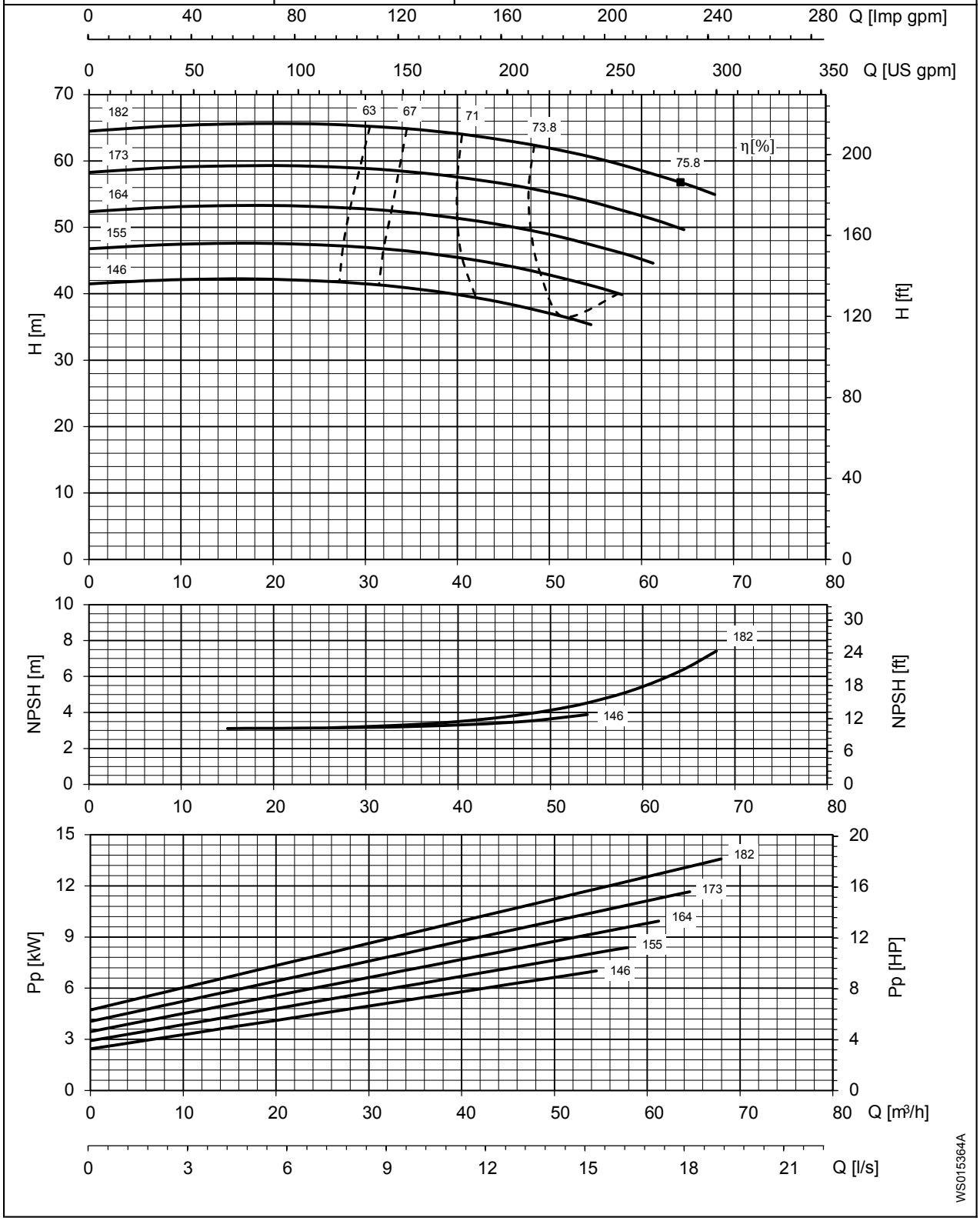
The NPSH values are laboratory values, it is suggested to increase the values by 0.5 m for practical use.
These performance curves are valid for liquids with density = 0.1 kg/dm^3 and kinematic viscosity = 1 mm^2/sec.

1710 65x50-160	1750 rpm; 60 Hz	ISO 9906:2012 - Grade 3B



The NPSH values are laboratory values, it is suggested to increase the values by 0.5 m for practical use.
These performance curves are valid for liquids with density = 0.1 kg/dm^3 and kinematic viscosity = 1 mm^2/sec.

1710 65x50-160	3500 rpm; 60 Hz	ISO 9906:2012 - Grade 3B



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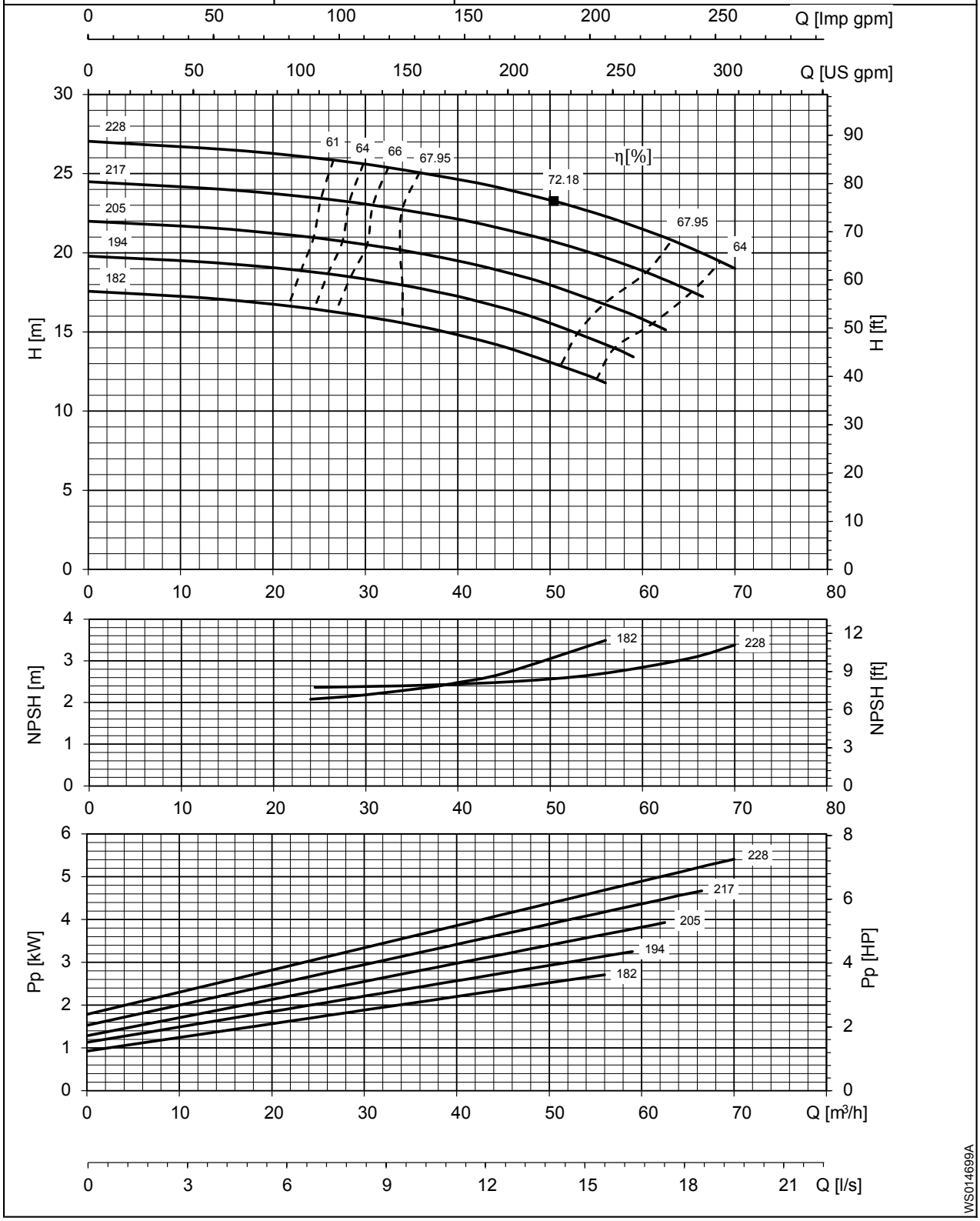
These performance curves are valid for liquids with density = 0.1 kg/dm^3 and kinematic viscosity = 1 mm^2/sec.

1710 80x50-200	1750 rpm; 60 Hz	ISO 9906:2012 - Grade 3B



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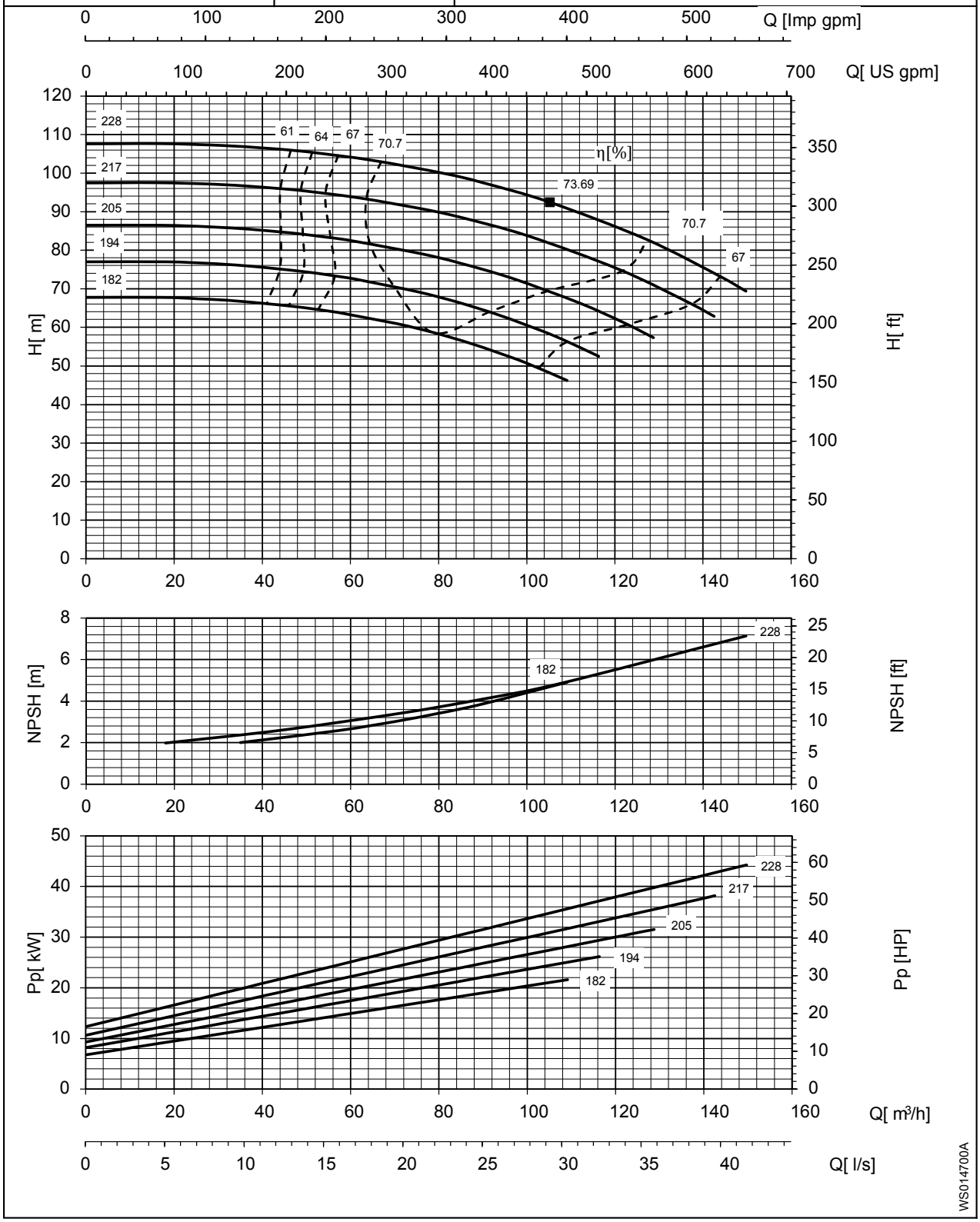
These performance curves are valid for liquids with density = 0.1 kg/dm^3 and kinematic viscosity = 1 mm^2/sec.

1710 80x50-200	3500 rpm; 60 Hz	ISO 9906:2012 - Grade 3B



The NPSH values are laboratory values, it is suggested to increase the values by 0.5 m for practical use.
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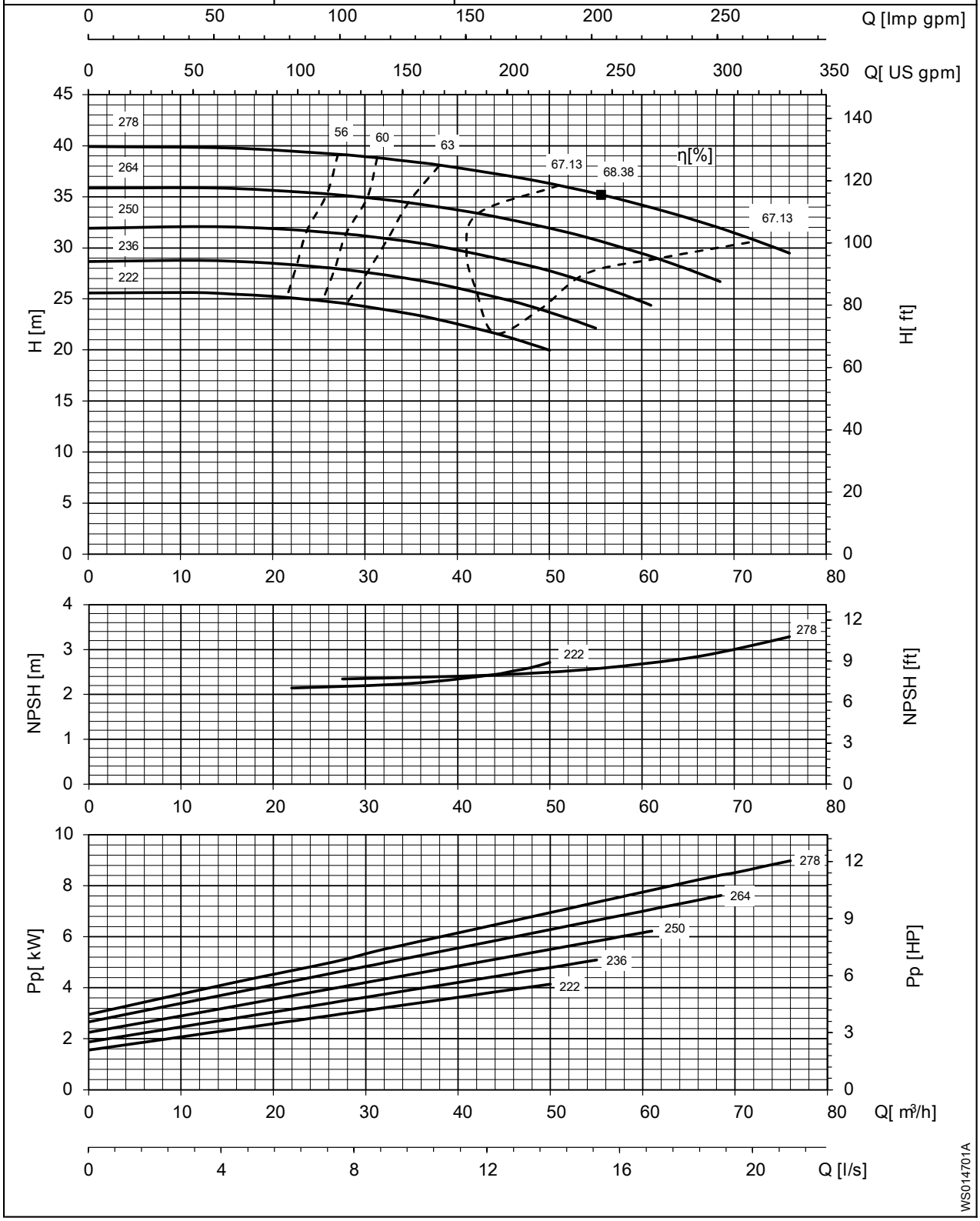
1710 80x50-250	1750 rpm; 60 Hz	ISO 9906:2012 - Grade 3B



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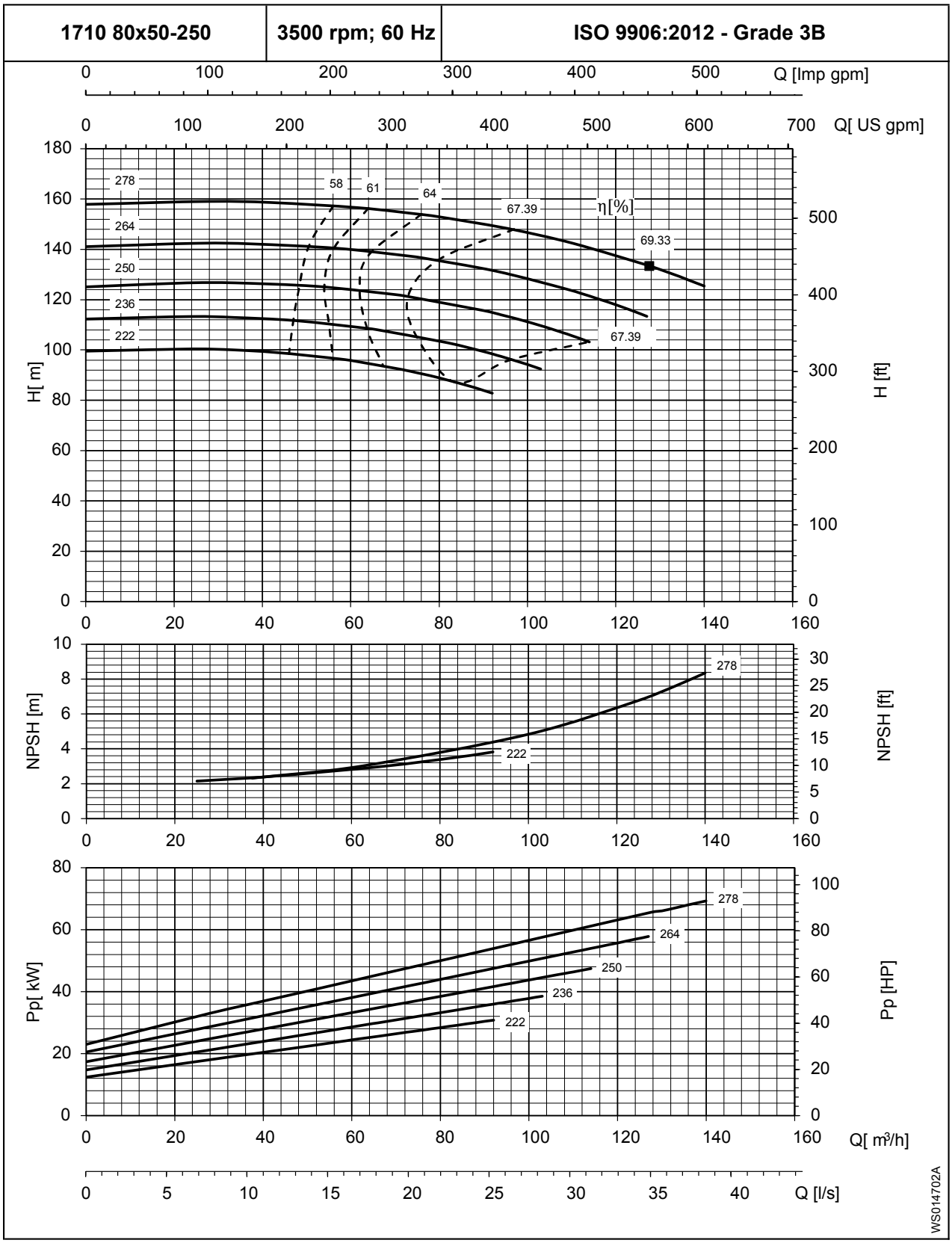
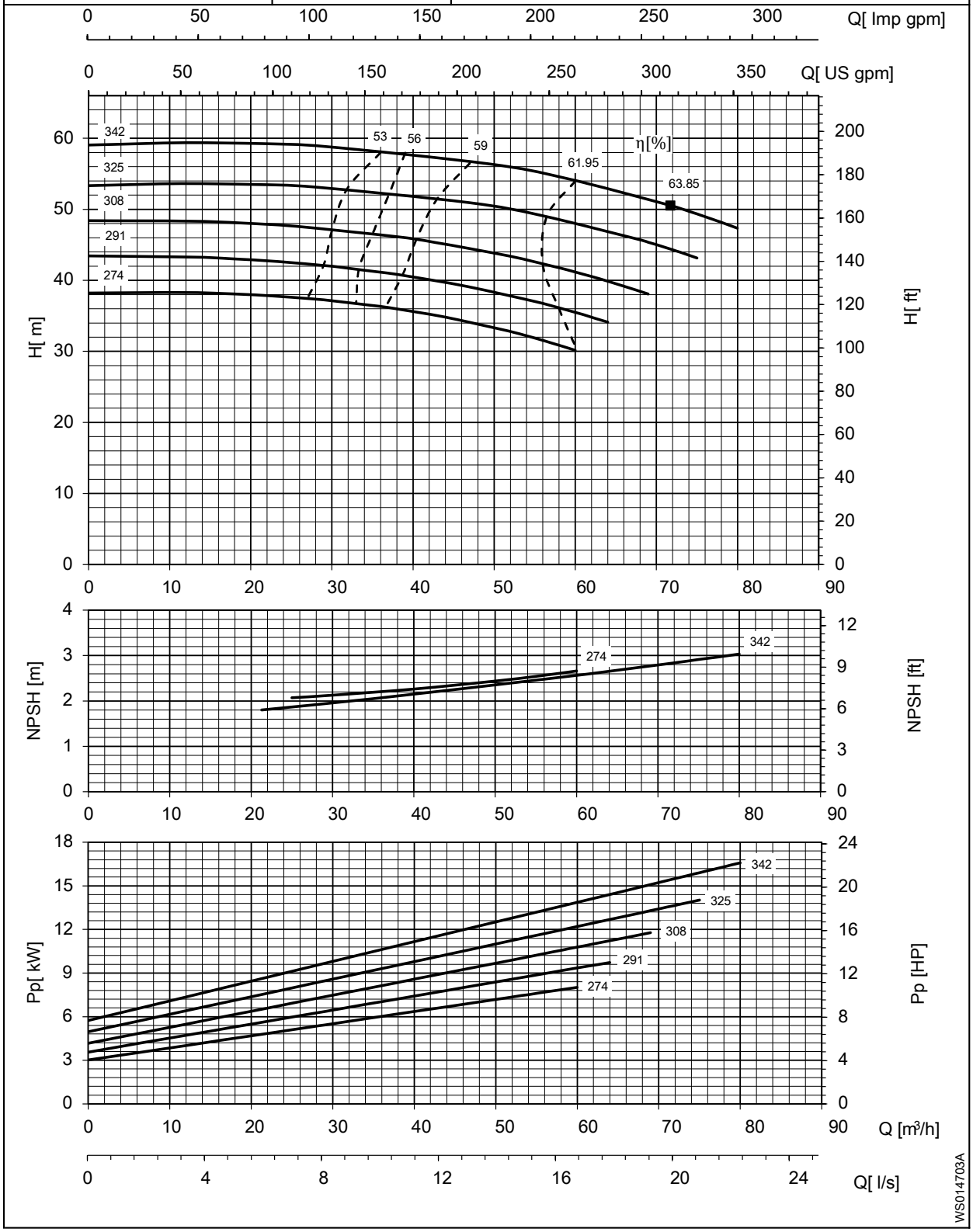
These performance curves are valid for liquids with density = 0.1 kg/dm^3 and kinematic viscosity = 1 mm^2/sec.



The NPSH values are laboratory values, it is suggested to increase the values by 0.5 m for practical use.
These performance curves are valid for liquids with density = 0.1 kg/dm^3 and kinematic viscosity = 1 mm^2/sec.

1710 80x50-315	1750 rpm; 60 Hz	ISO 9906:2012 - Grade 3B



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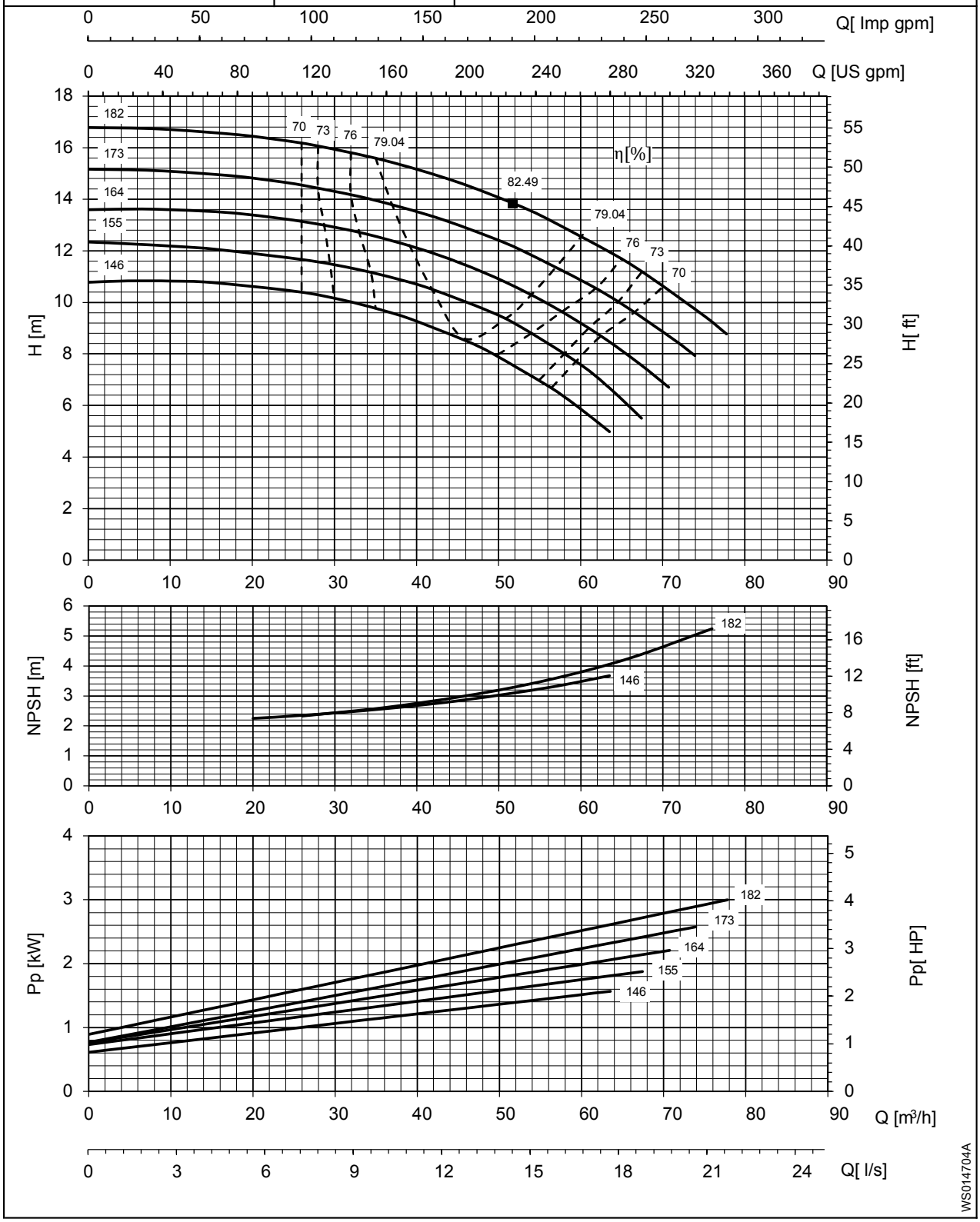
These performance curves are valid for liquids with density = 0.1 kg/dm^3 and kinematic viscosity = 1 mm^2/sec.

1710 80x65-160	1750 rpm; 60 Hz	ISO 9906:2012 - Grade 3B



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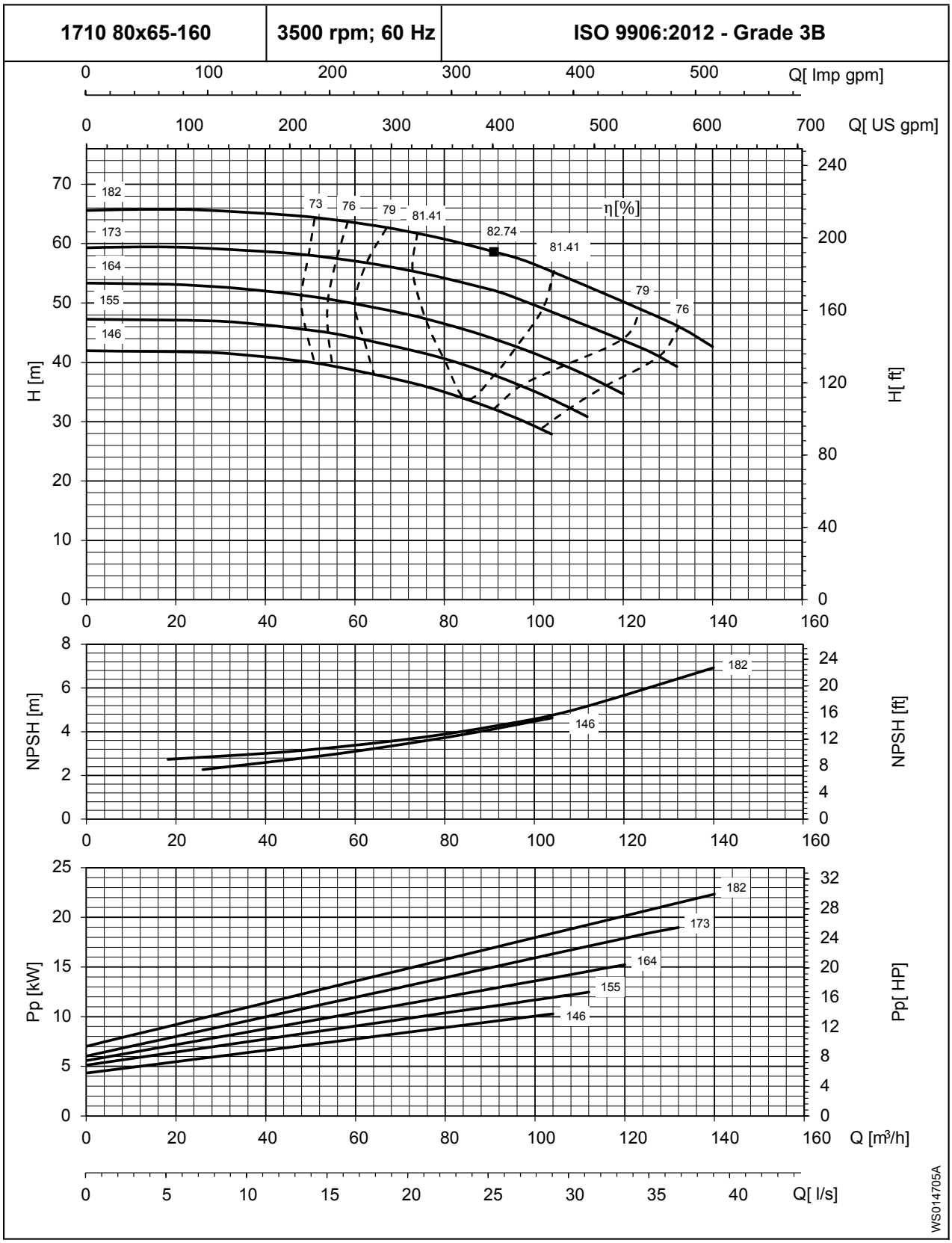
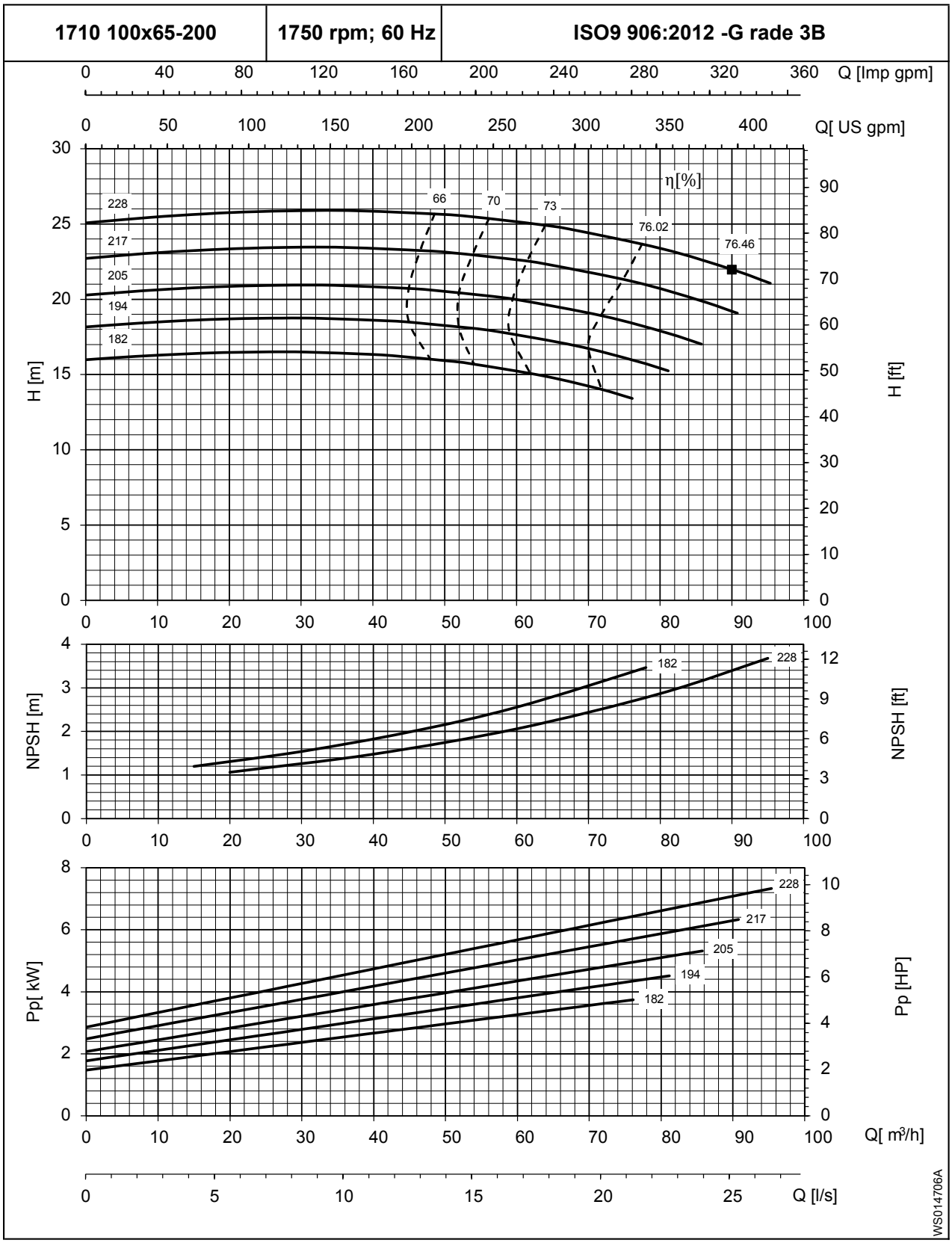
These performance curves are valid for liquids with density = 0.1 kg/dm^3 and kinematic viscosity = 1 mm^2/sec.



The NPSH values are laboratory values, it is suggested to increase the values by 0.5 m for practical use.
These performance curves are valid for liquids with density = 0.1 kg/dm^3 and kinematic viscosity = 1 mm^2/sec.

1710 100x65-200	1750 rpm; 60 Hz	ISO9 906:2012 -G rade 3B



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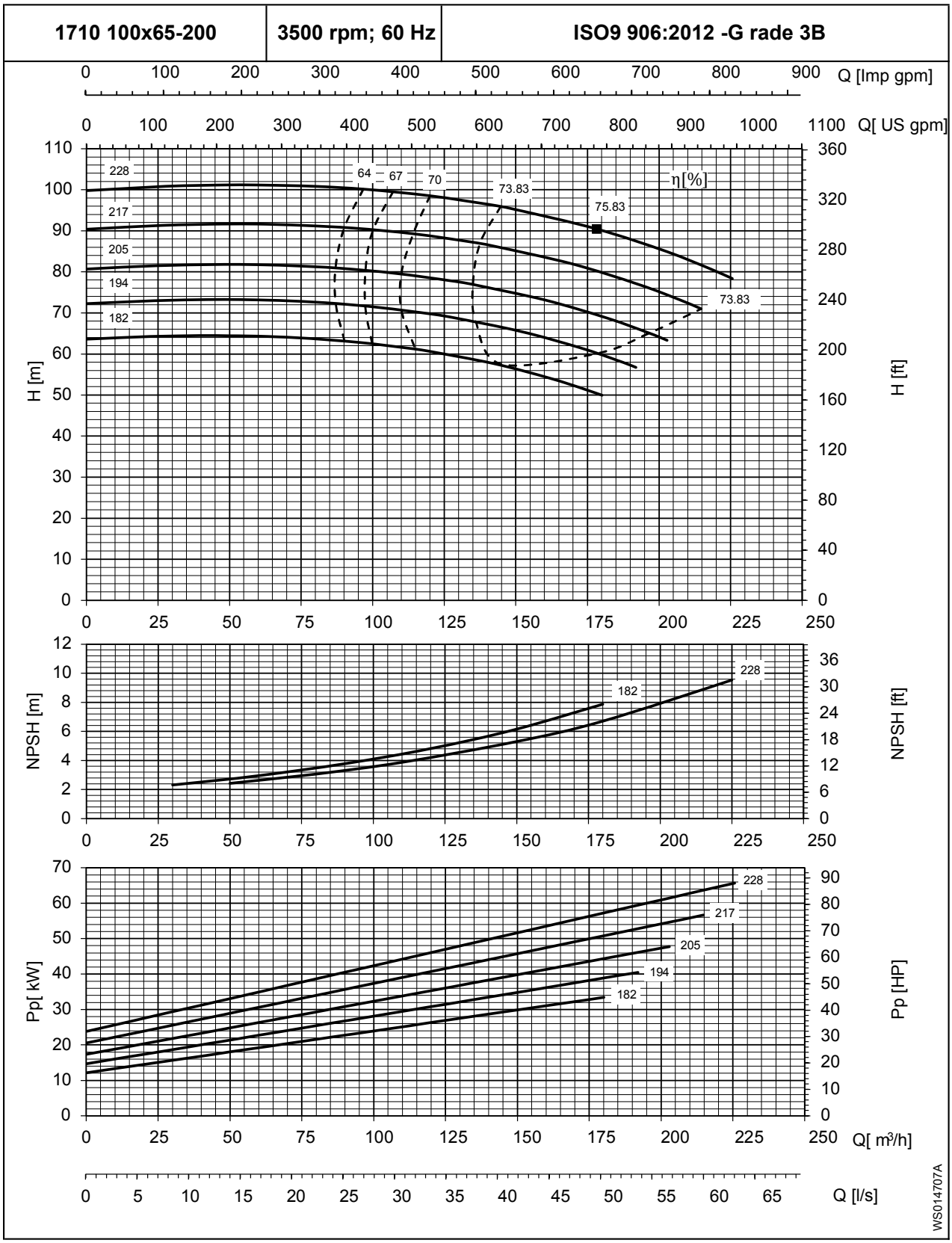
These performance curves are valid for liquids with density = 0.1 kg/dm^3 and kinematic viscosity = 1 mm^2/sec.



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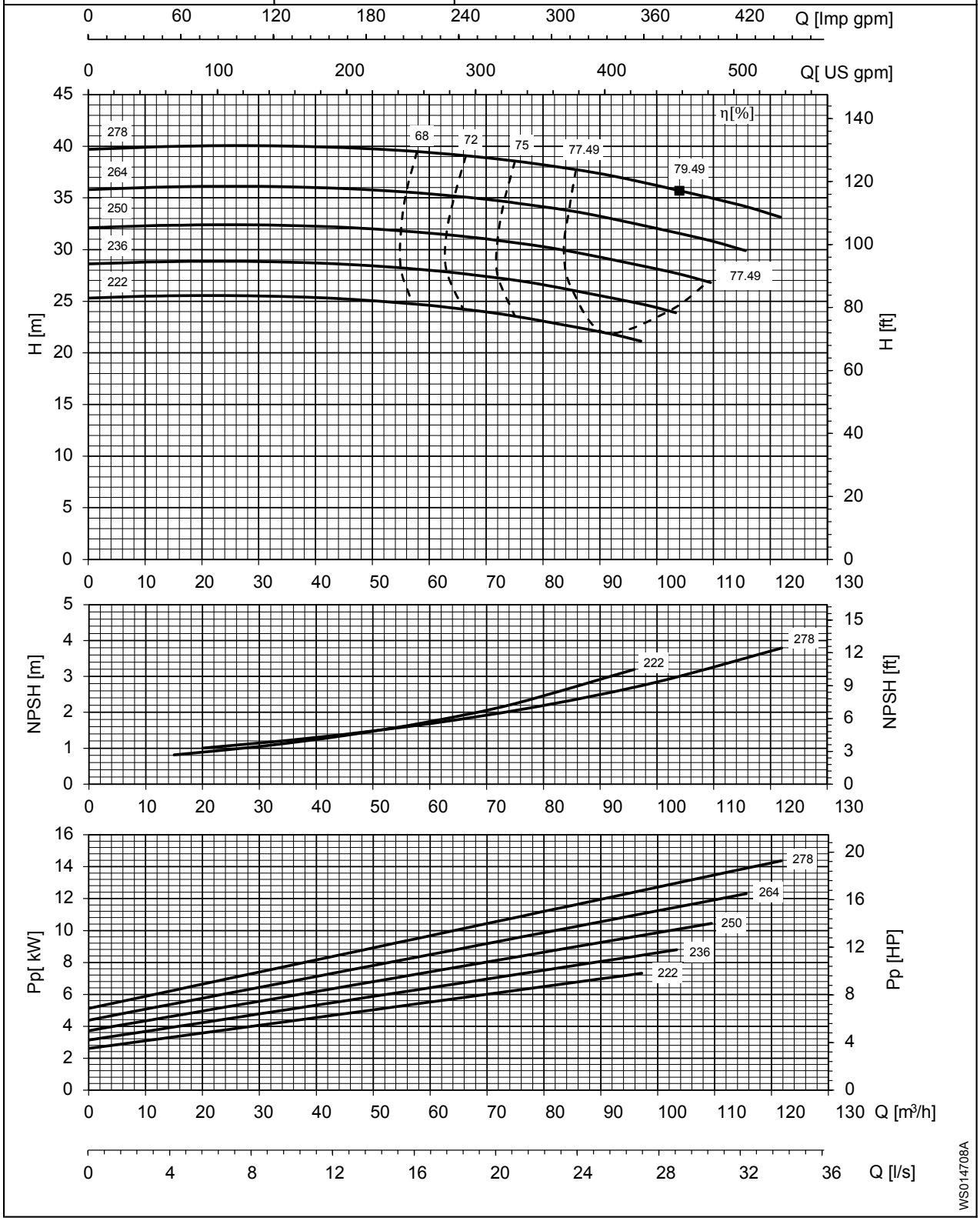
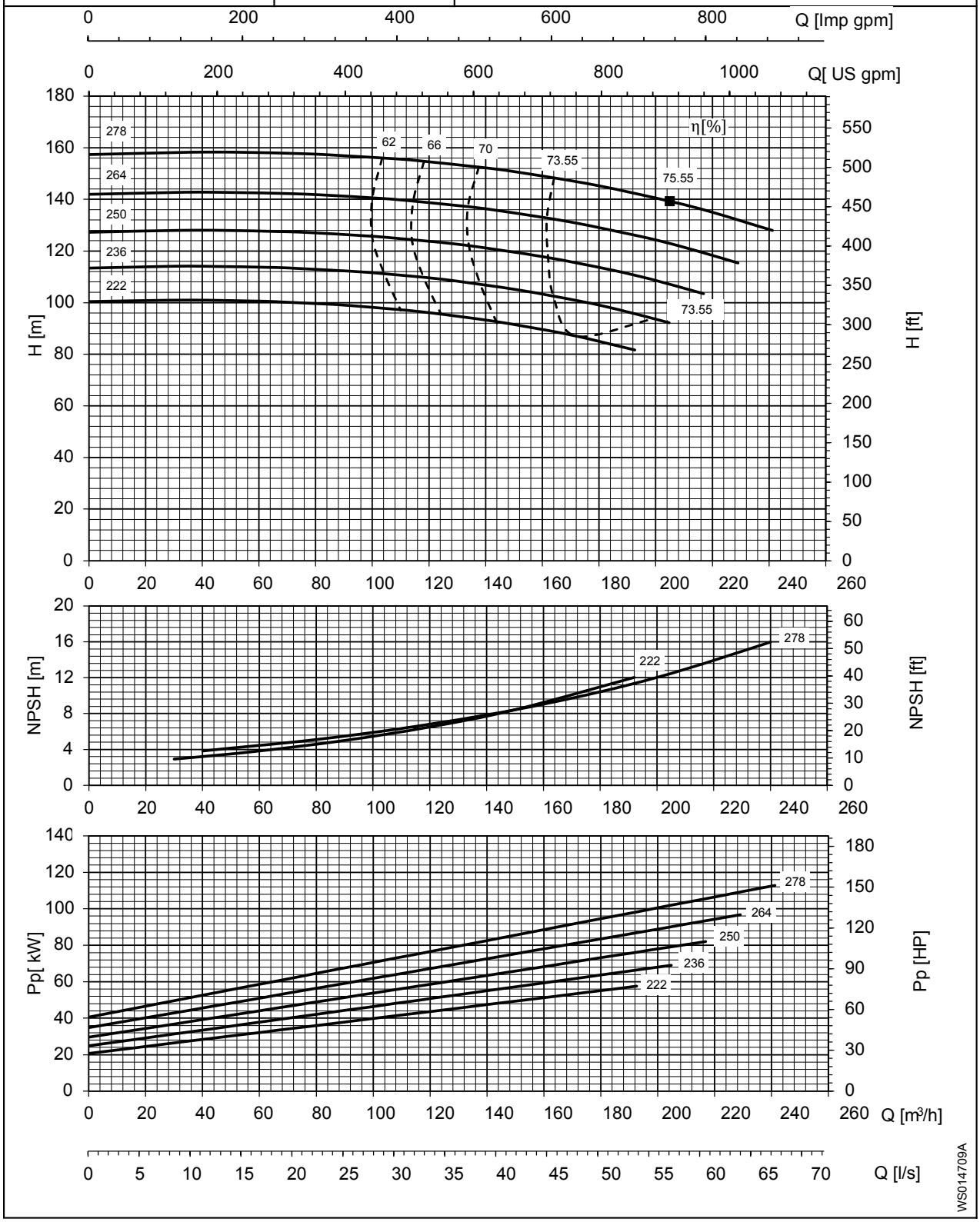
These performance curves are valid for liquids with density = 0.1 kg/dm^3 and kinematic viscosity = 1 mm^2/sec.

1710 100x65-250	1750 rpm; 60 Hz	ISO9 906:2012 -G rade 3B



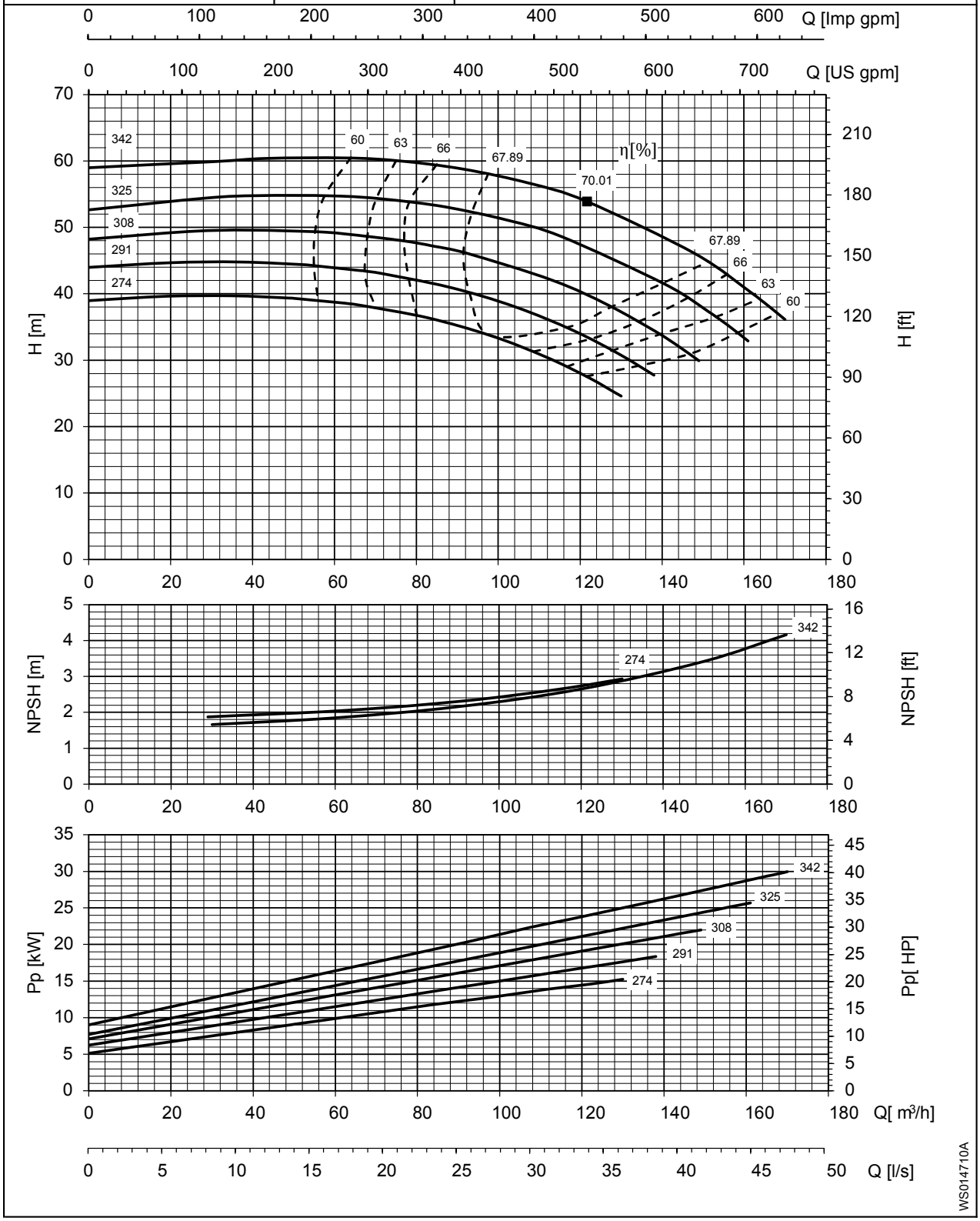
The NPSH values are laboratory values, it is suggested to increase the values by 0.5 m for practical use.
These performance curves are valid for liquids with density = 0.1 kg/dm^3 and kinematic viscosity = 1 mm^2/sec.

1710 100x65-250	3500 rpm; 60 Hz	ISO9 906:2012 -G rade 3B



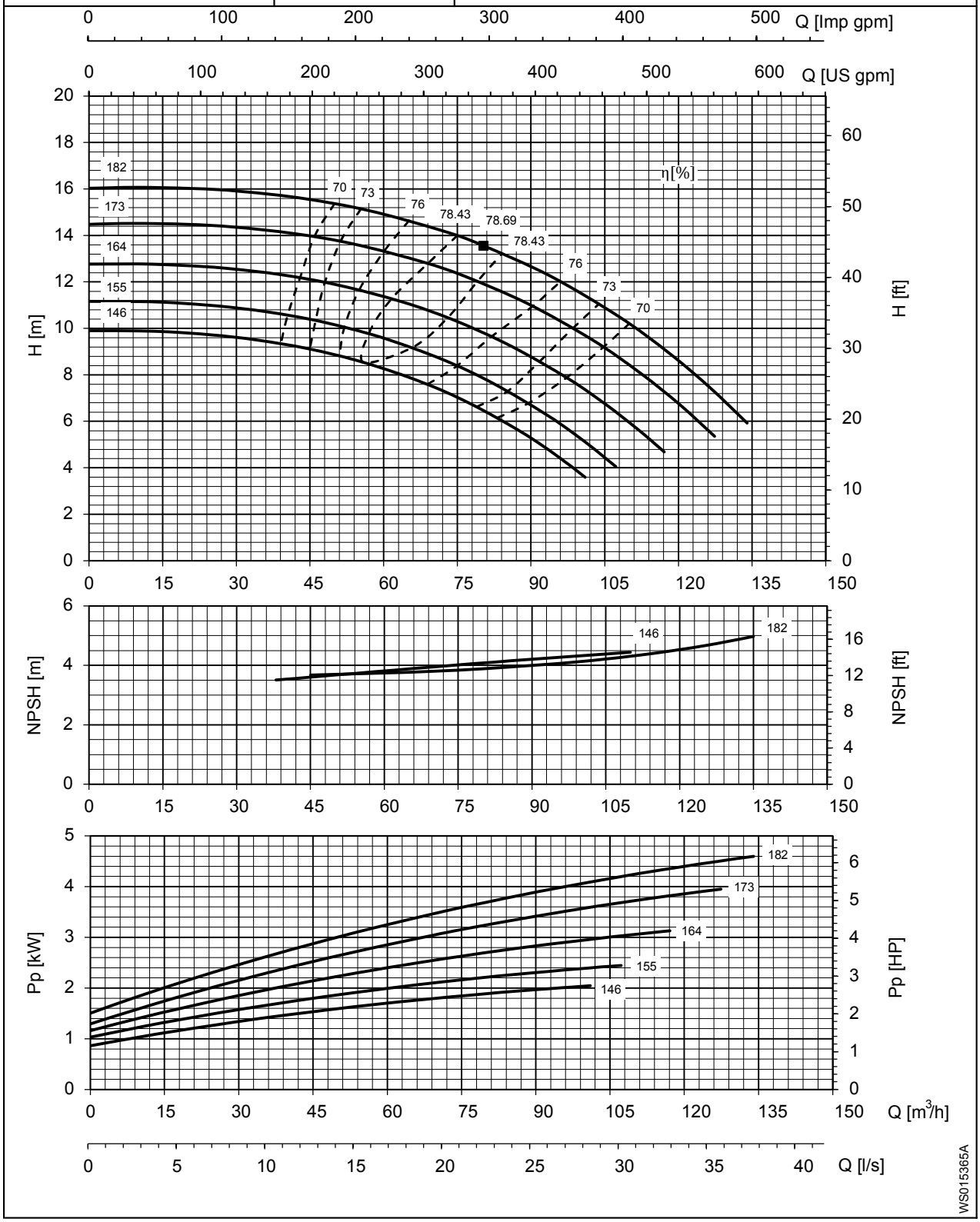
The NPSH values are laboratory values, it is suggested to increase the values by 0.5 m for practical use.
These performance curves are valid for liquids with density = 0.1 kg/dm^3 and kinematic viscosity = 1 mm^2/sec.

1710 100x65-315	1750 rpm; 60 Hz	ISO9 906:2012 -G rade 3B



The NPSH values are laboratory values, it is suggested to increase the values by 0.5 m for practical use.
These performance curves are valid for liquids with density = 0.1 kg/dm^3 and kinematic viscosity = 1 mm^2/sec.

1710 100x80-160	1750 rpm; 60 Hz	ISO 9906:2012 - Grade 3B



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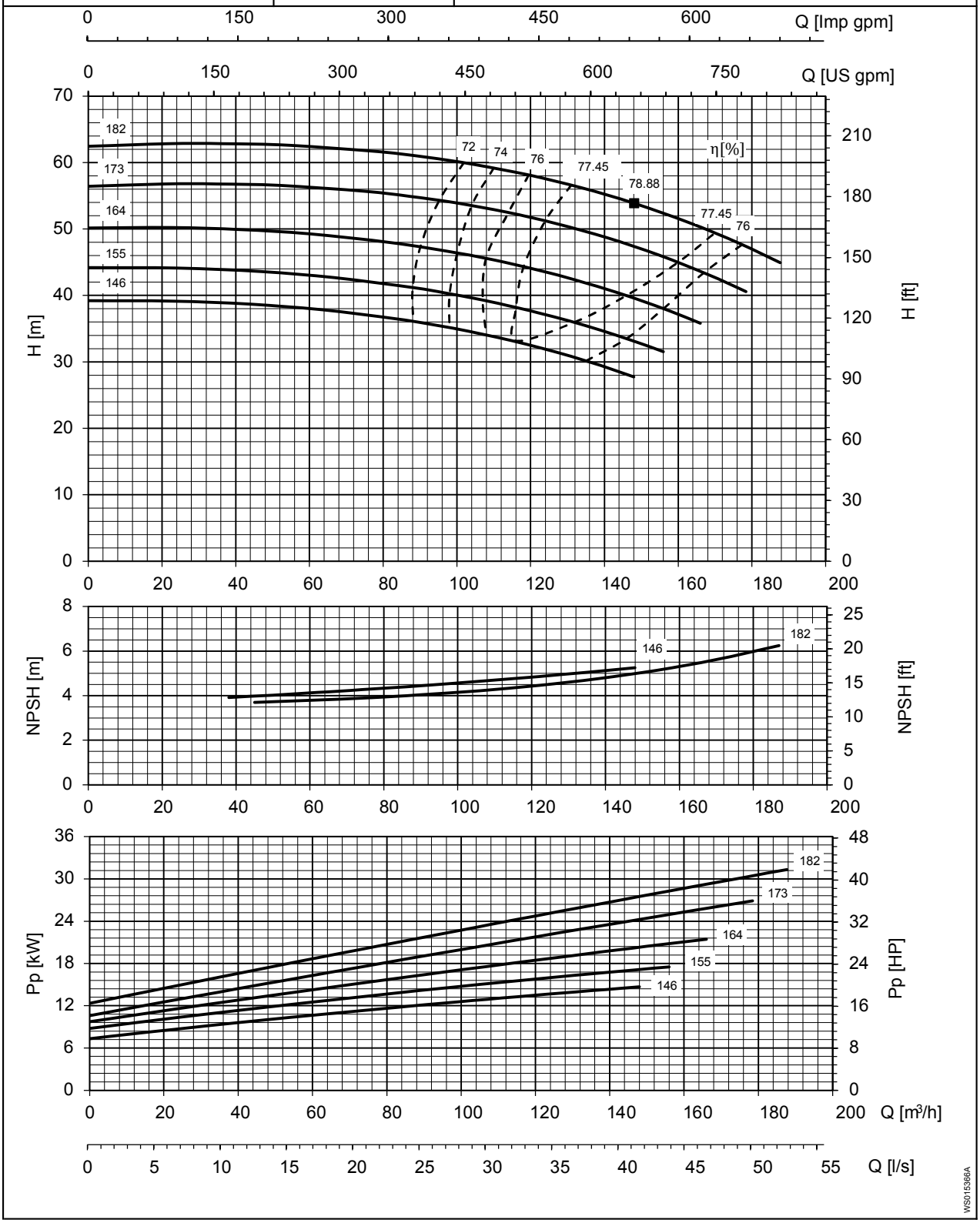
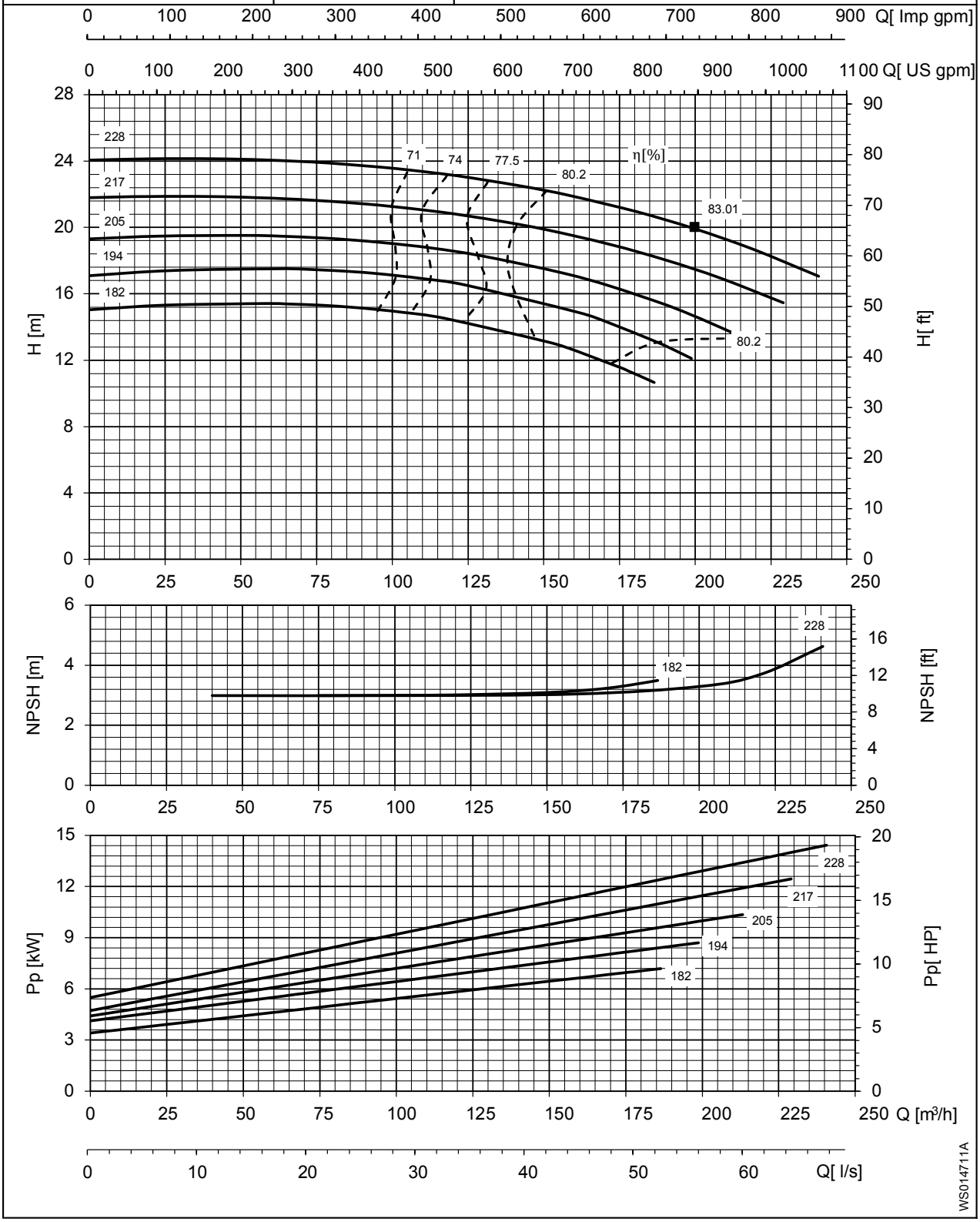
These performance curves are valid for liquids with density = 0.1 kg/dm^3 and kinematic viscosity = 1 mm^2/sec.

1710 100x80-160	3500 rpm; 60 Hz	ISO 9906:2012 - Grade 3B

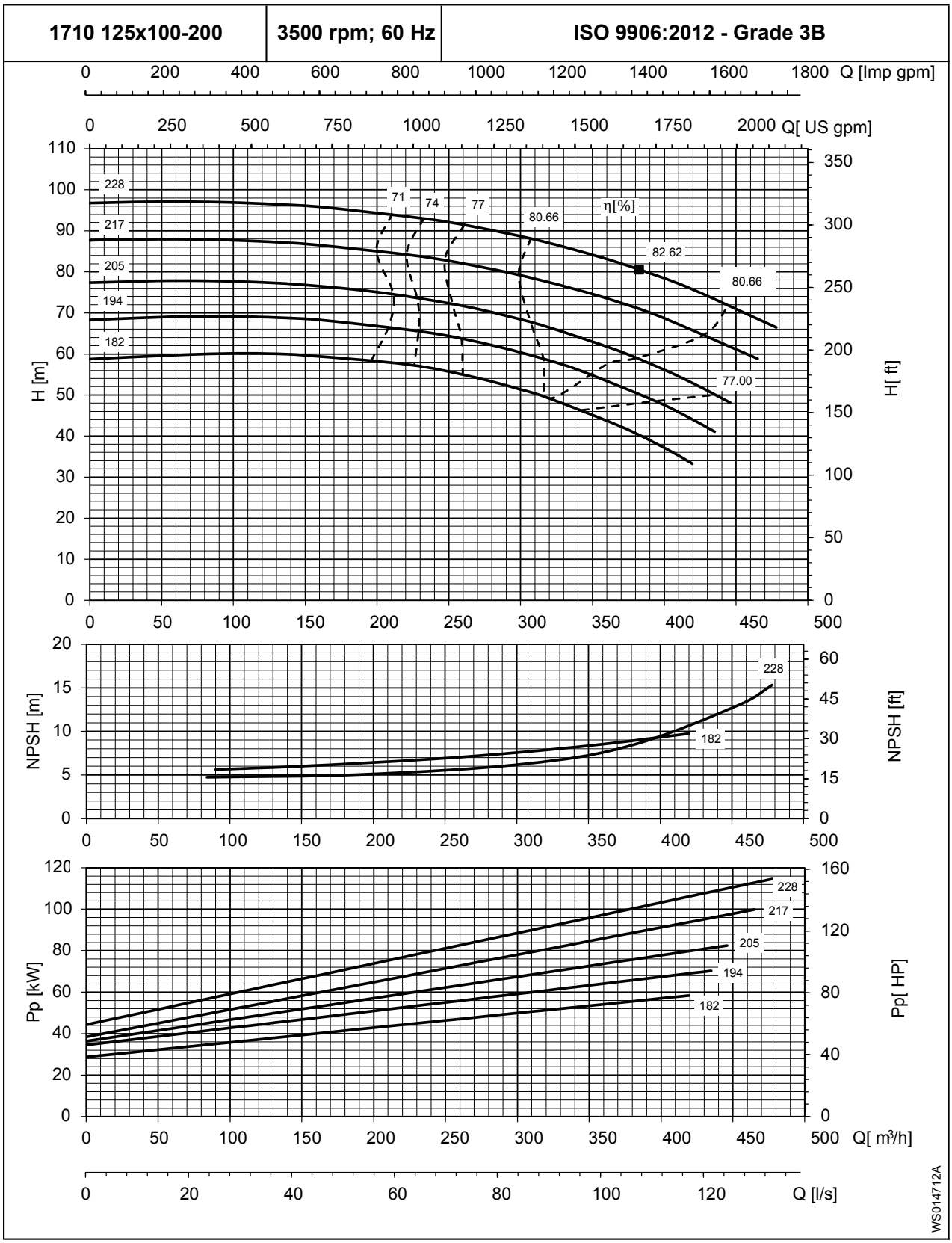


The NPSH values are laboratory values, it is suggested to increase the values by 0.5 m for practical use.
These performance curves are valid for liquids with density = 0.1 kg/dm^3 and kinematic viscosity = 1 mm^2/sec.

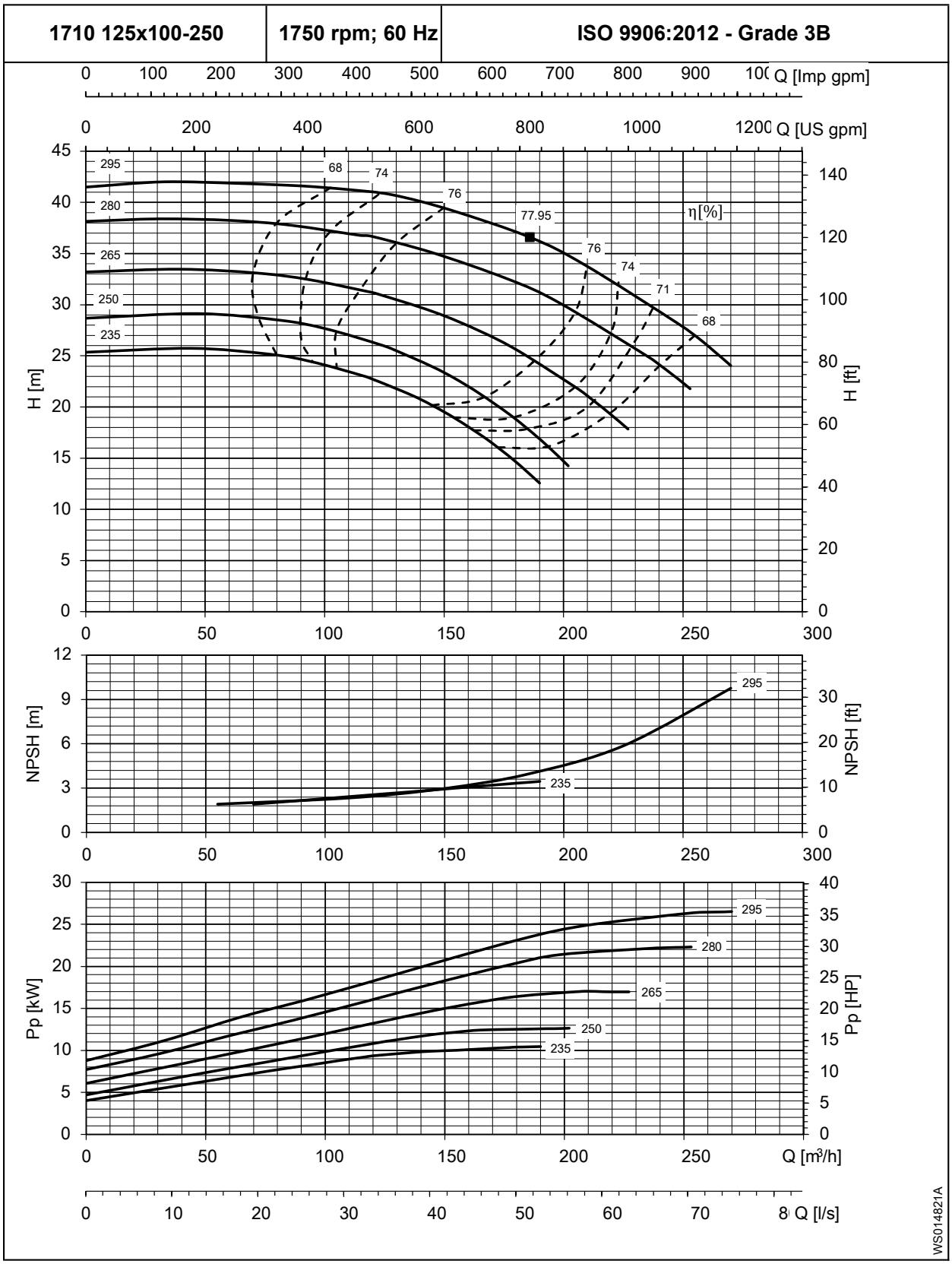
1710 125x100-200	1750 rpm; 60 Hz	ISO 9906:2012 - Grade 3B



The NPSH values are laboratory values, it is suggested to increase the values by 0.5 m for practical use.
These performance curves are valid for liquids with density = 0.1 kg/dm^3 and kinematic viscosity = 1 mm^2/sec.

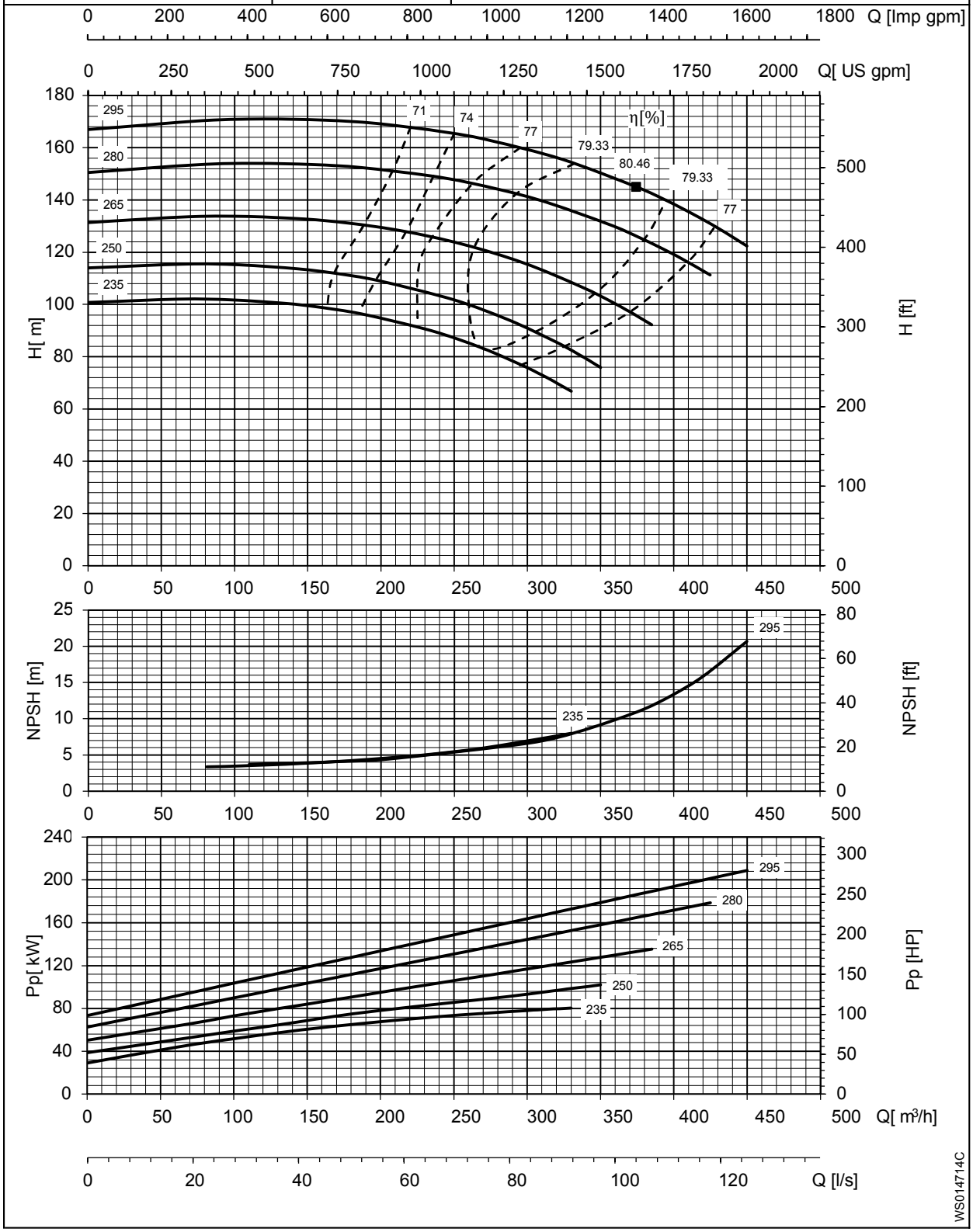


The NPSH values are laboratory values, it is suggested to increase the values by 0.5 m for practical use.
These performance curves are valid for liquids with density = 0.1 kg/dm^3 and kinematic viscosity = 1 mm^2/sec.

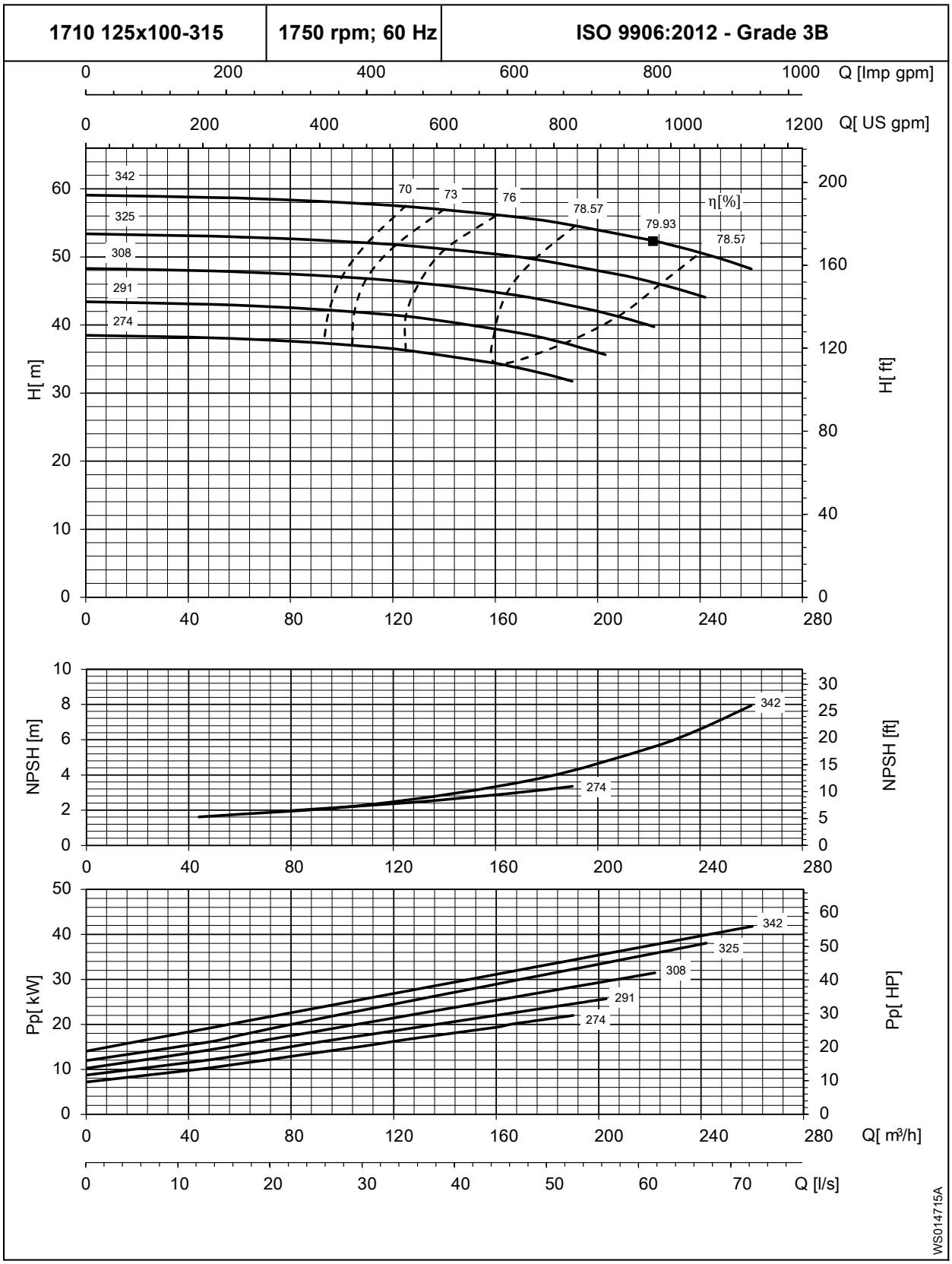


The NPSH values are laboratory values, it is suggested to increase the values by 0.5 m for practical use.
These performance curves are valid for liquids with density = 0.1 kg/dm^3 and kinematic viscosity = 1 mm^2/sec.

1710 125x100-250	3500 rpm; 60 Hz	ISO 9906:2012 - Grade 3B

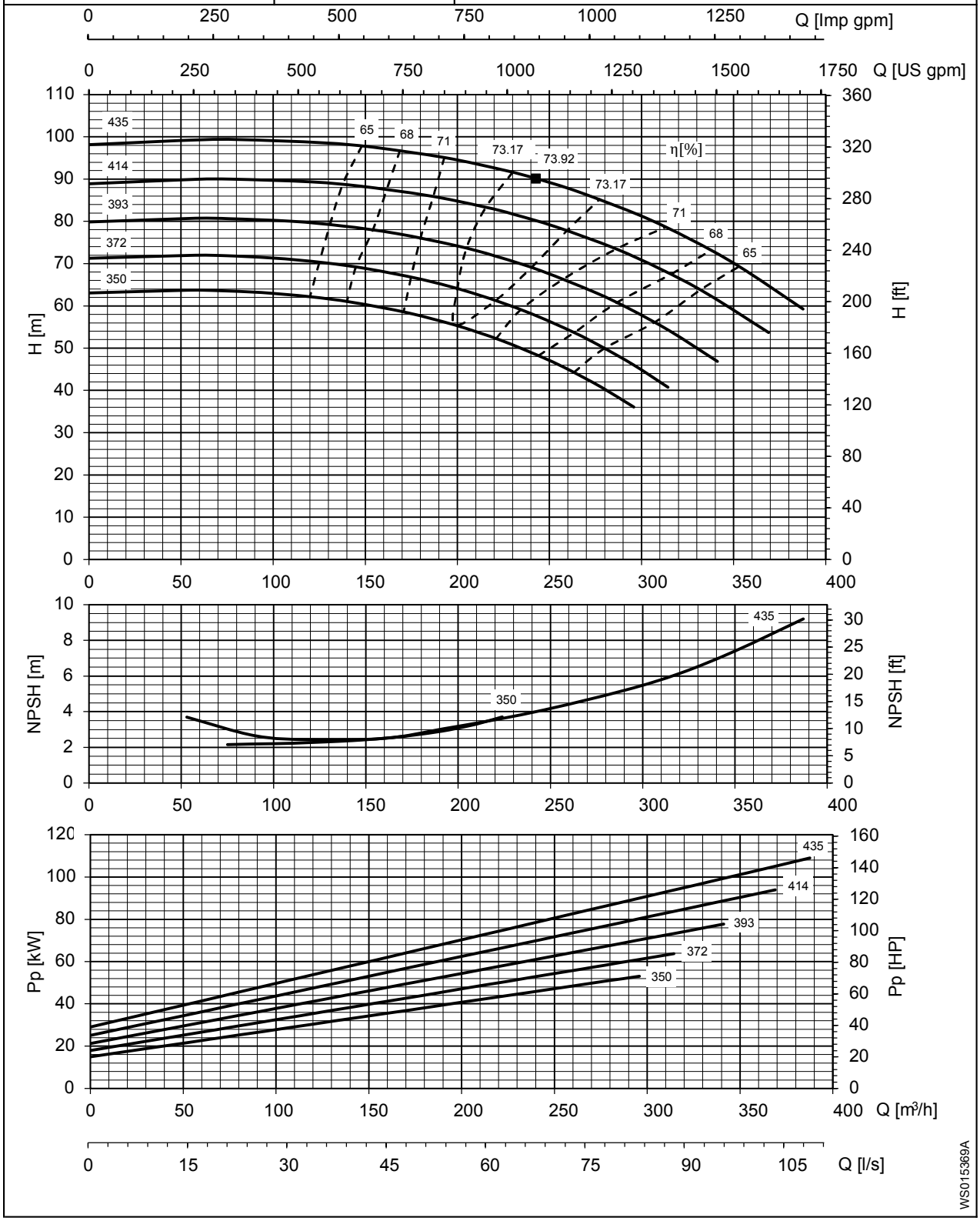


The NPSH values are laboratory values, it is suggested to increase the values by 0.5 m for practical use.
These performance curves are valid for liquids with density = 0.1 kg/dm^3 and kinematic viscosity = 1 mm^2/sec.



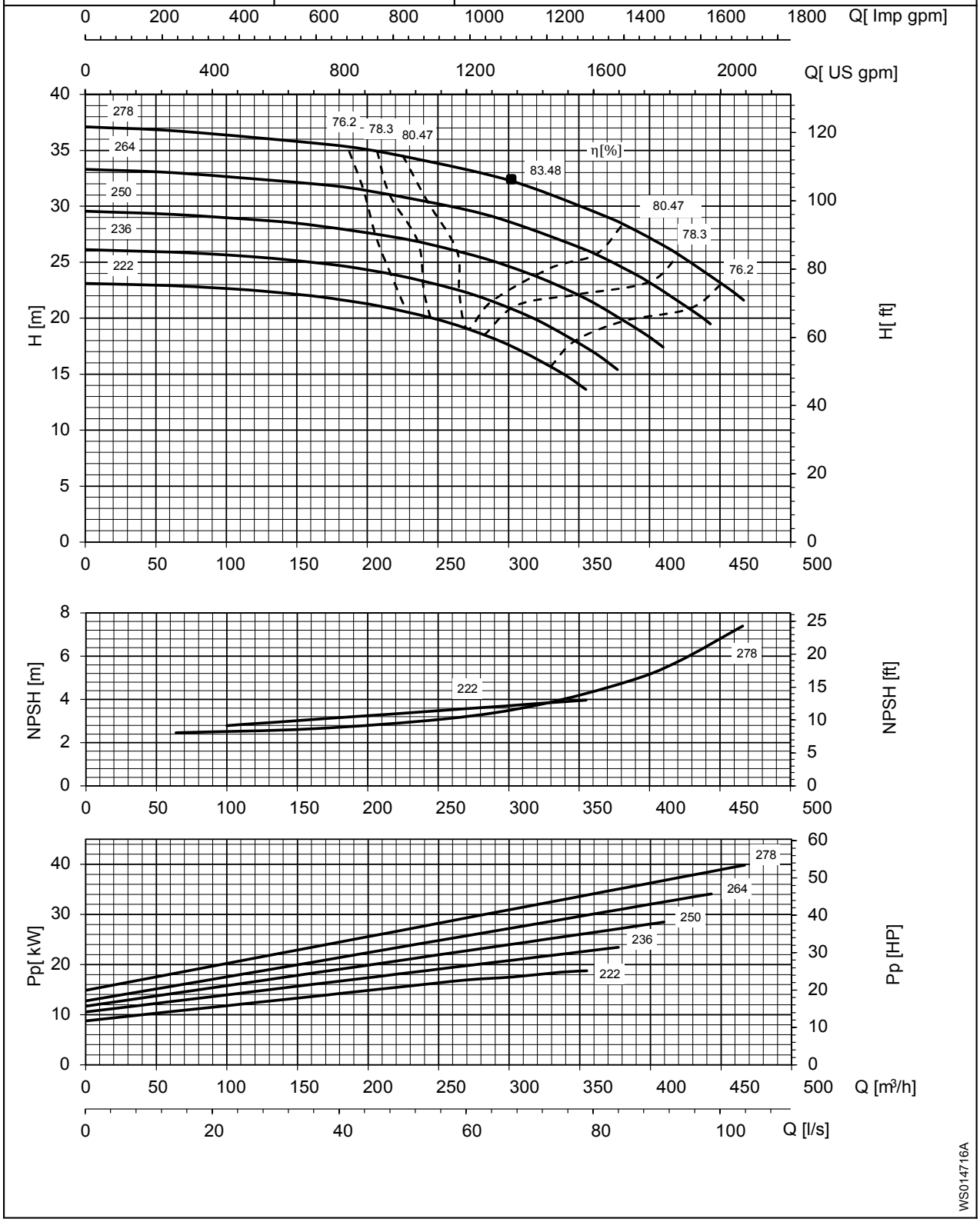
The NPSH values are laboratory values, it is suggested to increase the values by 0.5 m for practical use.
These performance curves are valid for liquids with density = 0.1 kg/dm^3 and kinematic viscosity = 1 mm^2/sec.

1710 125x100-400	1750 rpm; 60 Hz	ISO 9906:2012 - Grade 3B

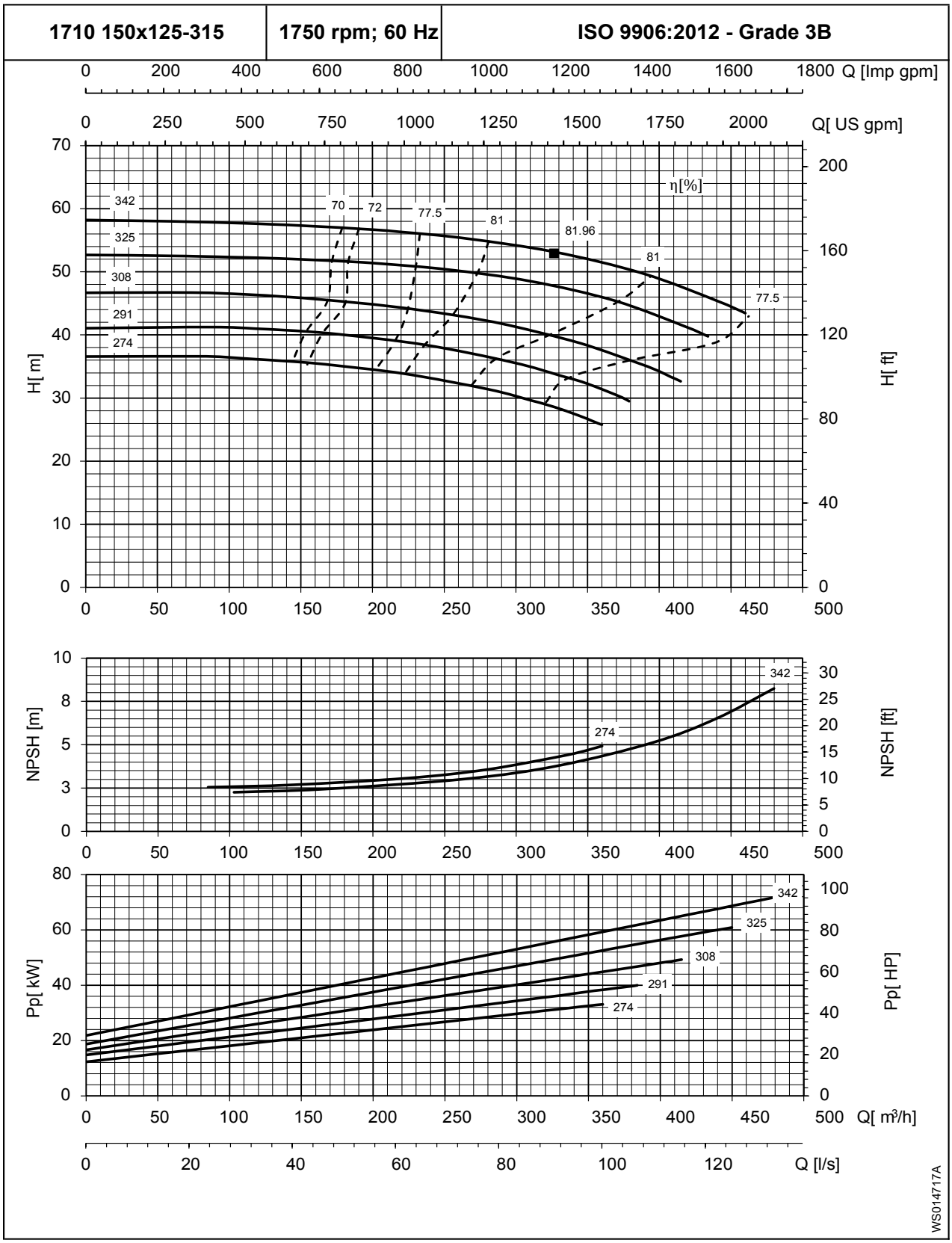


The NPSH values are laboratory values, it is suggested to increase the values by 0.5 m for practical use.
These performance curves are valid for liquids with density = 0.1 kg/dm^3 and kinematic viscosity = 1 mm^2/sec.

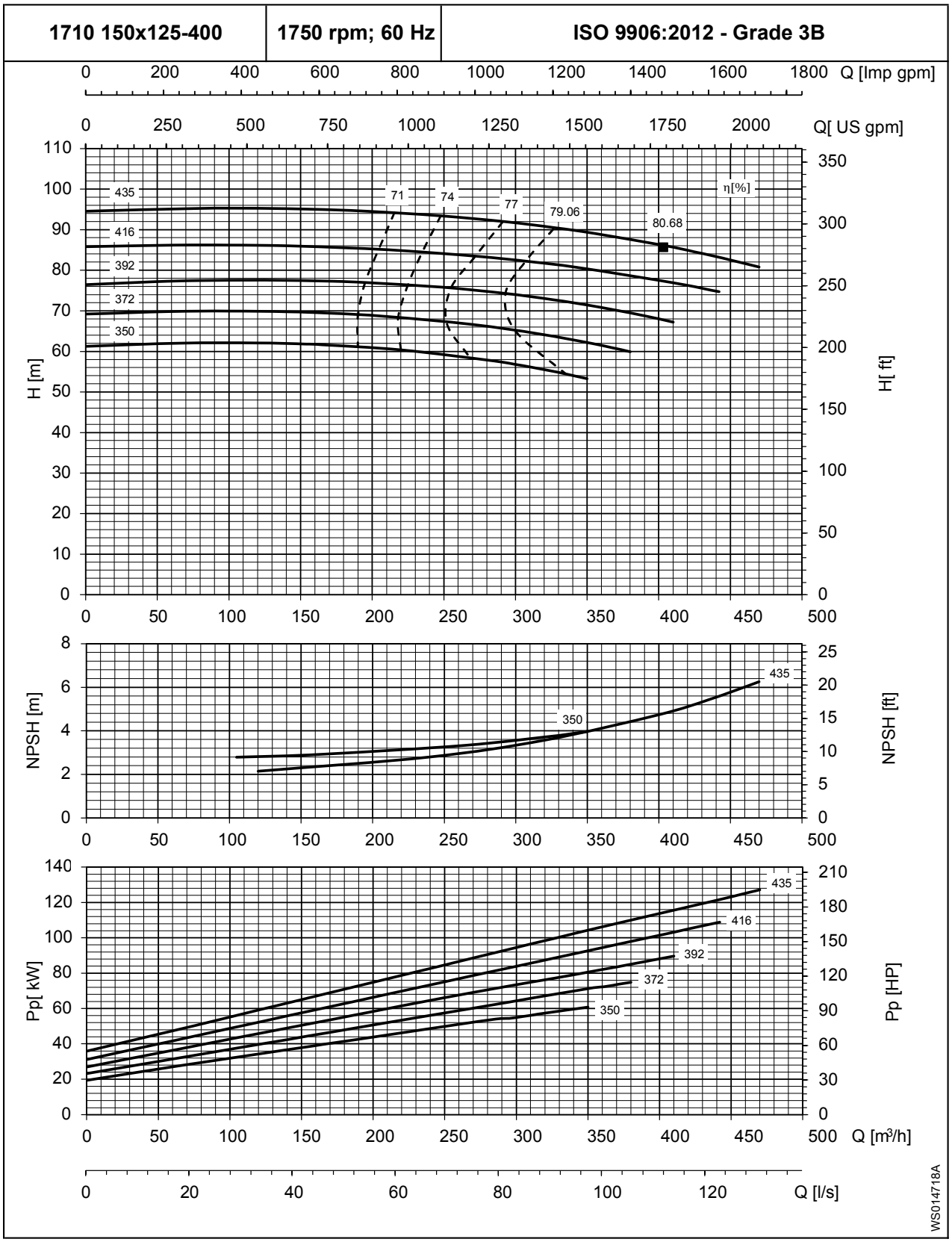
1710 150x125-250	1750 rpm; 60 Hz	ISO 9906:2012 - Grade 3B



The NPSH values are laboratory values, it is suggested to increase the values by 0.5 m for practical use.
These performance curves are valid for liquids with density = 0.1 kg/dm^3 and kinematic viscosity = 1 mm^2/sec.

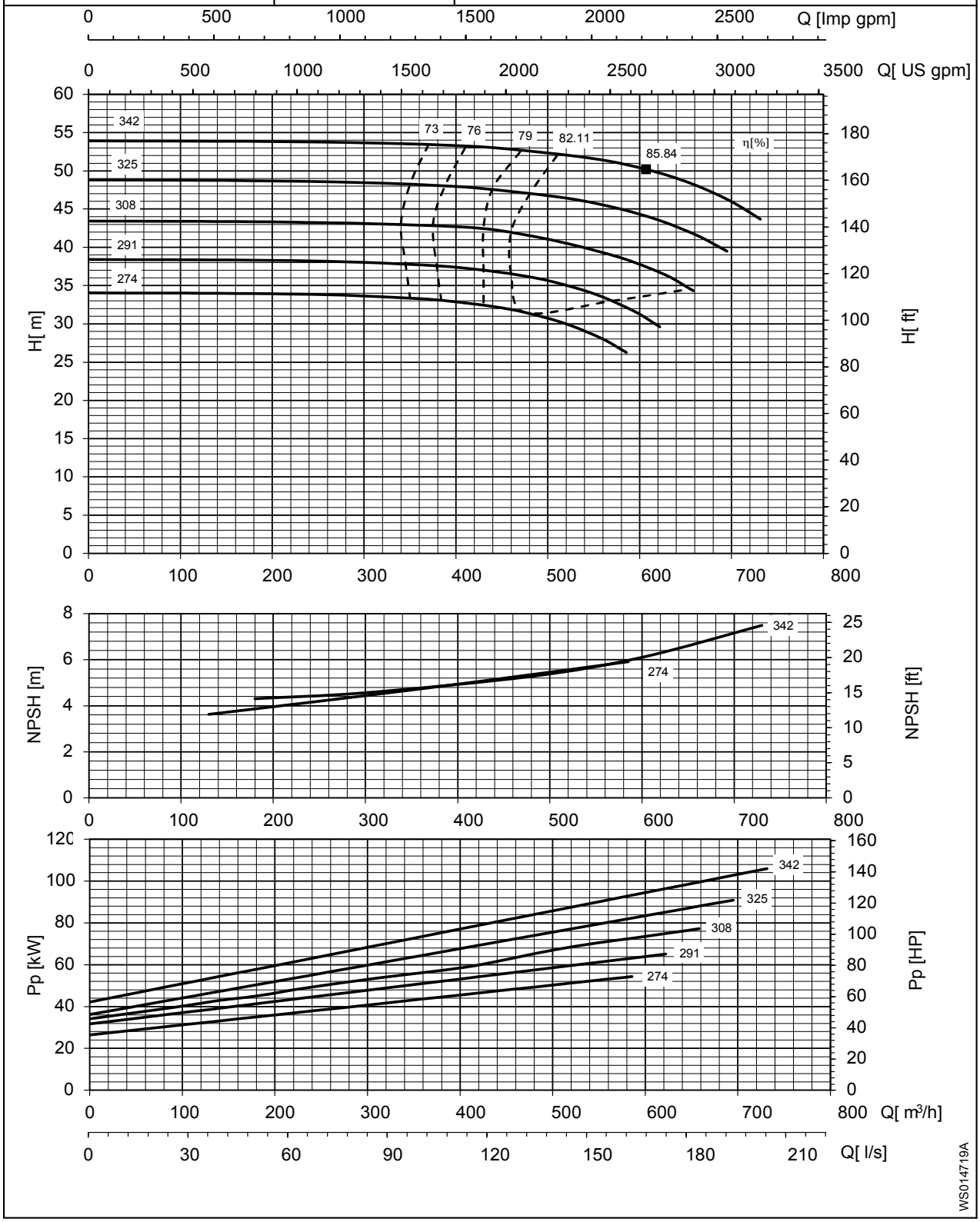


The NPSH values are laboratory values, it is suggested to increase the values by 0.5 m for practical use.
These performance curves are valid for liquids with density = 0.1 kg/dm^3 and kinematic viscosity = 1 mm^2/sec.

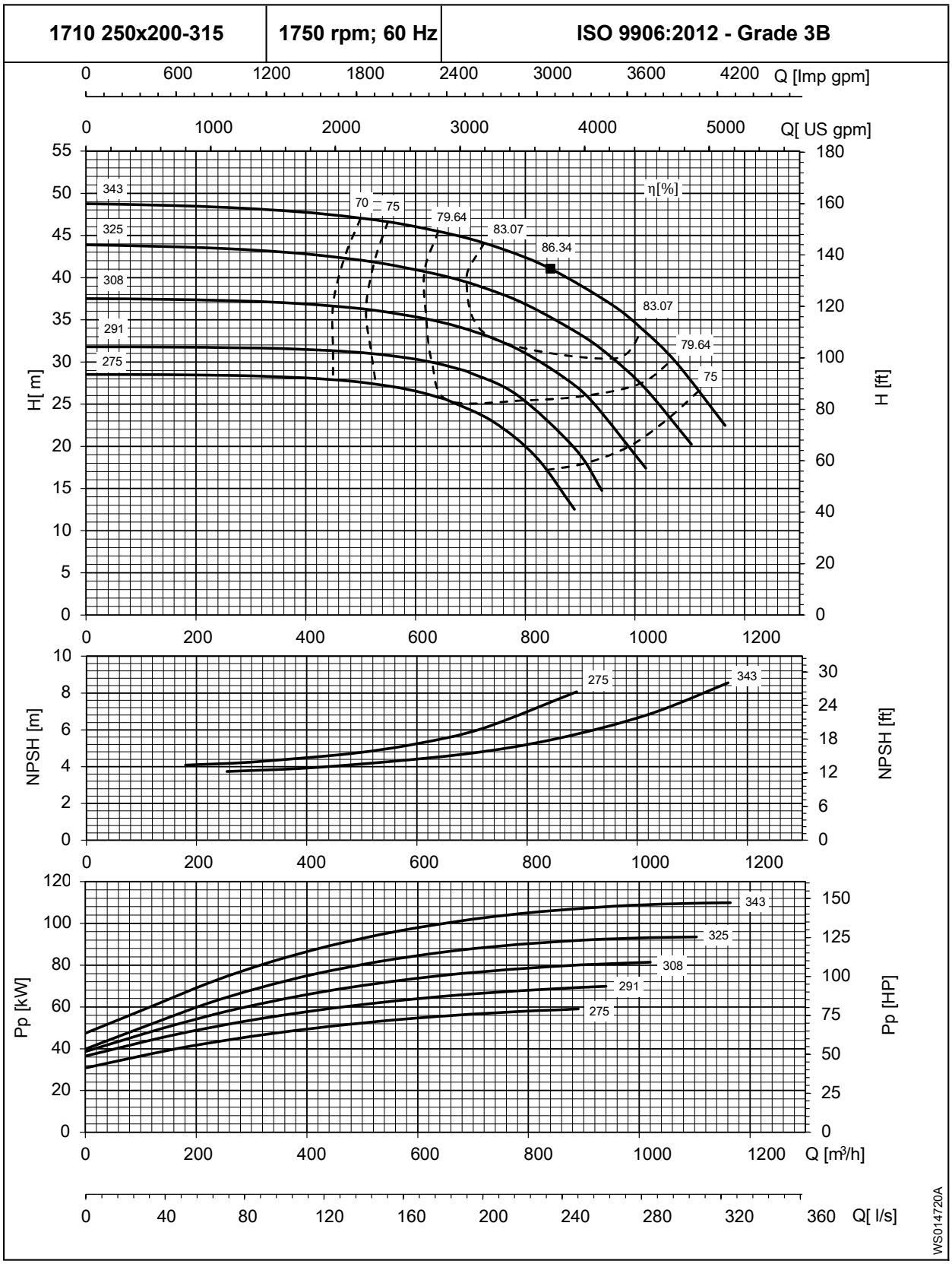


The NPSH values are laboratory values, it is suggested to increase the values by 0.5 m for practical use.
These performance curves are valid for liquids with density = 0.1 kg/dm^3 and kinematic viscosity = 1 mm^2/sec.

1710 200x150-315	1750 rpm; 60 Hz	ISO 9906:2012 - Grade 3B

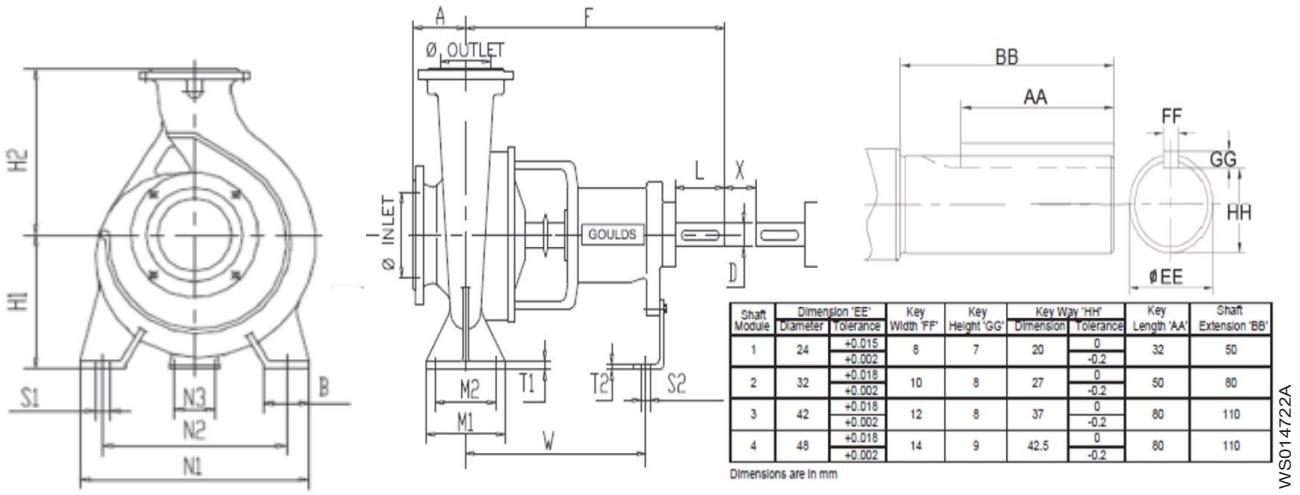


The NPSH values are laboratory values, it is suggested to increase the values by 0.5 m for practical use.
These performance curves are valid for liquids with density = 0.1 kg/dm^3 and kinematic viscosity = 1 mm^2/sec.



The NPSH values are laboratory values, it is suggested to increase the values by 0.5 m for practical use.
These performance curves are valid for liquids with density = 0.1 kg/dm^3 and kinematic viscosity = 1 mm^2/sec.

1710 End suction centrifugal pump – pump dimension (bare pump)



Shaft Module	Dimension 'EE' Diameter	Dimension 'EE' Tolerance	Key Width 'FF'	Key Height 'GG'	Key Way 'HH' Dimension	Key Way 'HH' Tolerance	Key Length 'AA'	Shaft Extension 'BB'
1	24	+0.015 +0.002	8	7	20	0 -0.2	32	50
2	32	+0.018 +0.002	10	8	27	0 -0.2	50	80
3	42	+0.018 +0.002	12	8	37	0 -0.2	80	110
4	48	+0.018 +0.002	14	9	42.5	0 -0.2	80	110

Dimensions are in mm

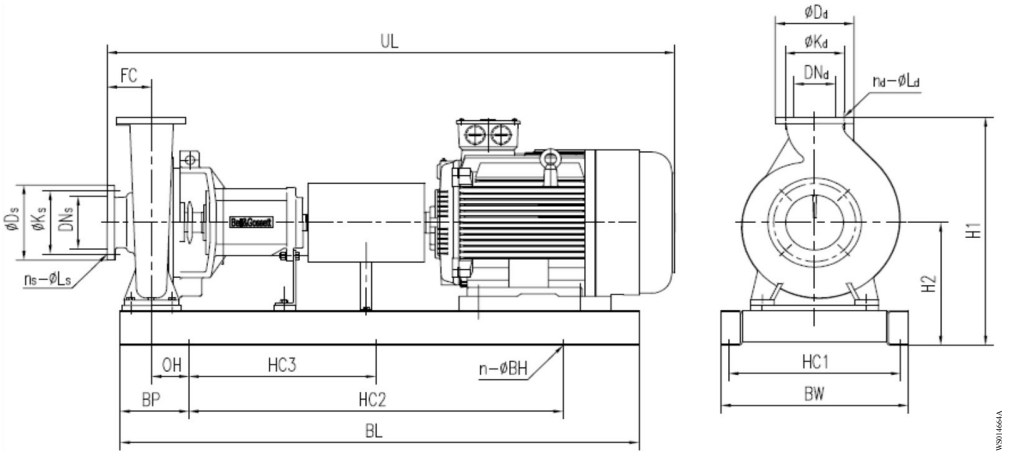
1710 Pump size	Shaft No.	Pump Dimension				Mounting Dimension								
		A	F	H1	H2	B	M1	M2	N1	N2	N3	T1	T2	W
50x32-160	1	80	385	132	160	50	100	70	240	190	110	12	6	285
50x32-200	1	80	385	160	180	50	100	70	240	190	110	12	6	285
65X40-200	1	100	365	160	180	50	100	70	265	212	110	13	6	285
65x40-250	2	100	500	180	225	65	125	95	320	250	110	14	6	370
65x50-160	1	80	385	132	160	50	100	70	240	190	110	12	6	285
80X50-200	1	100	385	160	200	50	100	70	265	212	110	13	6	285
80X50-250	2	125	500	180	225	65	125	95	320	250	110	15	6	370
80X50-315	2	125	500	225	280	65	125	95	345	280	110	18	6	370
80X65-160	1	100	385	160	180	50	100	70	265	212	110	13	6	285
100X65-200	2	100	500	180	225	65	125	95	320	250	110	14	6	370
100X65-250	2	125	500	200	250	80	160	120	360	280	110	16	6	370
100X65-315	3	125	530	225	280	80	160	120	400	315	110	18	6	370
100x80-160	2	100	500	160	200	65	125	95	280	212	110	14	6	370
125X100-200	2	125	500	200	280	80	160	120	360	280	110	17	6	370
125X100-250	3	140	530	225	280	80	160	120	400	315	110	18	6	370
125X100-315	3	140	530	250	315	80	160	120	400	315	110	19	6	370
125x100-400	3	140	530	280	355	100	200	150	500	400	110	20	6	370
150X125-250	3	140	530	250	355	80	160	120	400	315	110	19	6	370
150X125-315	3	140	530	280	355	100	200	150	500	400	110	20	6	370
150X125-400	3	140	530	315	400	100	200	150	500	400	110	21	6	370
200X150-315	4	160	670	315	400	100	200	150	550	450	140	25	10	500
250X200-315	4	180	670	315	450	100	200	150	550	450	140	25	10	500

Note: All dimensions are in mm.

1710 Pump size	Shaft No.	Bolt Holes		Shaft End		Gap	Weight
		S1	S2	D	L	X	Kg.
50x32-160	1	M12	M12	24	50	100	38
50x32-200	1	M12	M12	24	50	100	46
65X40-200	1	M12	M12	24	50	100	48
65x40-250	2	M12	M12	32	80	100	70
65x50-160	1	M12	M12	24	50	100	40
80X50-200	1	M12	M12	24	50	100	52
80X50-250	2	M12	M12	32	80	100	72
80X50-315	2	M12	M12	32	80	100	87
80X65-160	1	M12	M12	24	50	100	46
100X65-200	2	M12	M12	32	80	140	70
100X65-250	2	M16	M12	32	80	140	80
100X65-315	3	M16	M12	42	110	140	118
100x80-160	2	M12	M12	32	80	100	68
125X100-200	2	M16	M12	32	80	140	85
125X100-250	3	M16	M12	42	110	140	126
125X100-315	3	M16	M12	42	110	140	135
125x100-400	3	M20	M12	42	110	140	175
150X125-250	3	M16	M12	42	110	140	140
150X125-315	3	M20	M12	42	110	140	150
150X125-400	3	M20	M12	42	110	140	186
200X150-315	4	M20	M16	48	110	180	222
250X200-315	4	M20	M16	48	110	180	277

Note: All dimensions are in mm.

1710 End suction centrifugal pump - 1710 pump dimensions (pumpset)



1710 Pump size	Motor Power in kW		Motor frame size	H1	H2	HC1	HC2	HC3	BW	BL	BP	OH	UL	n
	2P	4P												
50X32-160		0.75	80M	367	207	270	430	NA	310	710	125	67	771	4
50X32-160		1.1	90S	367	207	270	430	NA	310	765	130	73	825	4
50X32-160		1.5	90L	367	207	270	430	NA	310	765	130	73	850	4
50X32-160	5.5		132S	369	209	310	500	NA	350	810	155	98	960	4
50X32-160	7.5		132S	369	209	310	500	NA	350	810	155	98	960	4
50X32-160	11		160M	435	275	350	580	NA	390	975	175	117	1094	4
50X32-200		1.1	90S	415	235	270	430	NA	310	765	145	86	796	4
50X32-200		1.5	90L	415	235	270	430	NA	310	765	145	86	821	4
50X32-200		2.2	100L	415	235	270	430	NA	310	750	160	103	863	4
50X32-200		3	100L	415	235	270	430	NA	310	750	160	103	863	4
50X32-200	7.5		132S	415	235	310	500	NA	350	810	155	98	960	4
50X32-200	11		160M	455	275	350	580	NA	390	1005	175	117	1094	4
50X32-200	15		160M	455	275	350	580	NA	390	1005	175	117	1094	4
50X32-200	18.5		160L	455	275	350	580	NA	390	1005	175	117	1138	4
65x40-200		1.5	90L	415	235	270	430	NA	310	765	145	86	841	4
65x40-200		2.2	100L	415	235	270	430	NA	310	805	160	103	883	4
65x40-200		3	100L	415	235	270	430	NA	310	805	160	103	883	4
65x40-200		4	112M	415	235	270	430	NA	310	750	160	103	883	4
65x40-200	11		160M	455	275	350	580	NA	390	1010	200	140	1114	4
65x40-200	15		160M	455	275	350	580	NA	390	1010	200	140	1114	4
65x40-200	18.5		160L	432	252	350	580	NA	390	1010	200	140	1158	4
65x40-200	22		180M	475	295	350	580	NA	390	1025	205	145	1158	4
65x40-200	30		200L	495	315	400	680	NA	450	1090	205	145	1258	4
65X40-250		3	100L	500	275	350	580	NA	390	935	150	79	998	4
65X40-250		4	112M	500	275	350	580	NA	390	960	155	85	1018	4
65X40-250		5.5	132S	520	295	400	630	NA	440	980	155	84.5	1084	4
65X40-250		7.5	132M	520	295	400	630	NA	440	980	155	84.5	1122	4
65X50-160		0.75	80M	367	207	270	430	NA	310	710	125	67	771	4
65X50-160		1.1	90S	367	207	270	430	NA	310	765	130	73	796	4

Note: All dimensions are in mm.

1710 Pump size	Motor Power in kW		Motor frame size	H1	H2	HC1	HC2	HC3	BW	BL	BP	OH	UL	n
	2P	4P												
65X50-160		1.5	90L	367	207	270	430	NA	310	765	130	73	850	4
65X50-160		2.2	100L	367	207	270	430	NA	310	805	160	103	904	4
65X50-160	7.5		132S	369	209	310	500	NA	350	810	155	98	960	4
65X50-160	11		160M	435	275	350	580	NA	390	975	175	117	1094	4
65X50-160	15		160M	435	275	350	580	NA	390	975	175	117	1094	4
80x50-200		3	100L	435	235	270	430	NA	310	805	160	103	883	4
80x50-200		4	112M	435	235	270	430	NA	310	750	160	103	898	4
80x50-200		5.5	132S	435	235	310	500	NA	350	810	155	98	964	4
80x50-200		7.5	132M	450	250	310	535	NA	350	850	155	98	1002	4
80x50-200	18.5		160L	475	275	350	580	NA	390	1010	200	140	1159	4
80x50-200	22		180M	495	295	350	580	NA	390	1025	205	145	1181	4
80x50-200	30		200L	535	335	400	660	NA	450	1070	205	145	1293	4
80x50-200	37		200L	535	335	400	660	NA	450	1070	205	145	1293	4
80x50-200	45		225M	560	360	450	685	NA	490	1110	215	150	1338	4
80x50-250		5.5	132S	520	295	400	630	NA	440	980	155	84.5	1120	4
80x50-250		7.5	132M	520	295	400	630	NA	440	980	155	84.5	1158	4
80x50-250		11	160M	520	295	400	750	NA	440	1130	175	105	1173	4
80x50-250	30		200L	560	335	400	780	NA	450	1205	205	134	1426	4
80x50-250	37		200L	560	335	400	780	NA	450	1205	205	134	1426	4
80x50-250	45		225M	585	360	450	800	NA	490	1225	215	143	1471	4
80x50-250	55		250M	630	405	500	870	NA	550	1340	235	145	1600	4
80x50-250	75		280S	660	435	550	900	NA	600	1440	255	165	1700	4
80x50-315		7.5	132M	620	340	400	630	NA	440	980	175	103	1160	4
80x50-315		11	160M	620	340	400	750	NA	440	1130	190	104	1284	4
80x50-315		15	160L	620	340	400	750	NA	440	1130	190	104	1326	4
80x65-160		1.5	90L	415	235	270	430	NA	310	765	145	86	841	4
80x65-160		2.2	100L	415	235	270	430	NA	310	805	160	103	895	4
80x65-160		3	100L	415	235	270	430	NA	310	805	160	103	895	4
80x65-160	11		160M	455	275	350	580	NA	390	1010	200	140	1114	4
80x65-160	15		160M	455	275	350	580	NA	390	1010	200	140	1114	4
80x65-160	18.5		160L	432	252	350	580	NA	390	1010	200	140	1159	4
80x65-160	22		180M	455	275	350	580	NA	390	1025	205	145	1181	4
100x65-200		5.5	132S	520	295	400	630	NA	440	980	155	84.5	1095	4
100x65-200		7.5	132M	520	295	400	630	NA	440	980	155	84.5	1133	4
100x65-200		11	160M	520	295	400	750	NA	440	1130	175	105	1248	4
100x65-200	30		200L	560	335	400	780	NA	450	1205	205	134	1401	4
100x65-200	37		200L	560	335	400	780	NA	450	1205	205	134	1401	4
100x65-200	45		225M	585	360	450	800	NA	490	1225	215	143	1446	4
100x65-200	55		250M	630	405	500	870	NA	550	1340	235	145	1575	4
100x65-200	75		280S	660	435	550	900	NA	600	1440	255	165	1675	4
100x65-250		7.5	132M	565	315	400	630	NA	440	990	180	94	1160	4
100x65-250		11	160M	565	315	400	750	NA	440	1150	190	104	1269	4

Note: All dimensions are in mm.

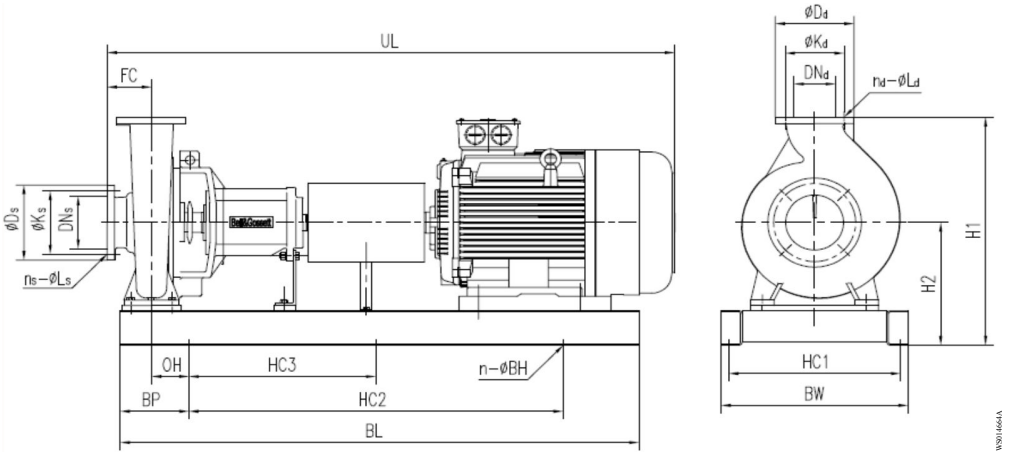
1710 Pump size	Motor Power in kW		Motor frame size	H1	H2	HC1	HC2	HC3	BW	BL	BP	OH	UL	n
	2P	4P												
100x65-250		15	160L	565	315	400	750	NA	440	1150	190	104	1311	4
100x65-250	55		250M	660	410	500	870	NA	550	1340	235	145	1583	4
100x65-250	75		280S	690	440	550	880	NA	600	1440	255	165	1655	4
100x65-250	90		280M	690	440	550	880	NA	600	1440	255	165	1704	4
100x65-250	110		315S	720	470	630	1020	NA	680	1580	280	190	1894	4
100x65-250	132		315M	720	470	630	1020	NA	680	1580	280	190	2004	4
100x65-315		15	160L	620	340	400	750	NA	440	1180	205	118	1329	4
100x65-315		18.5	180M	620	340	400	750	NA	440	1200	225	135	1371	4
100x65-315		22	180L	620	340	400	750	NA	440	1200	225	135	1409	4
100x65-315		30	200L	635	355	500	820	NA	540	1240	210	120	1409	4
100X80-160		2.2	100L	455	255	350	580	NA	390	935	150	79	998	4
100X80-160		3	100L	455	255	350	580	NA	390	935	150	79	998	4
100X80-160		4	112M	455	255	320	580	NA	360	890	155	85	998	4
100X80-160		5.5	132S	470	270	360	650	NA	400	980	155	85	1064	4
100X80-160	18.5		160L	475	275	400	750	NA	440	1130	175	105	1274	4
100X80-160	22		180M	495	295	400	750	NA	440	1150	185	114	1296	4
100X80-160	30		200L	515	315	400	780	NA	450	1190	205	134	1401	4
100X80-160	37		200L	515	315	400	780	NA	450	1190	205	134	1401	4
125x100-200		7.5	132M	595	315	400	630	NA	440	990	180	94	1160	4
125x100-200		11	160M	595	315	400	750	NA	440	1150	190	104	1269	4
125x100-200		15	160L	595	315	400	750	NA	440	1150	190	104	1313	4
125x100-200		18.5	180M	595	315	400	790	NA	440	1165	190	104	1350	4
125x100-200	55		250M	690	410	500	870	NA	550	1340	235	145	1583	4
125x100-200	75		280S	720	440	550	880	NA	600	1440	255	165	1655	4
125x100-200	90		280M	720	440	550	880	NA	600	1440	255	165	1707	4
125x100-200	110		315S	720	440	630	1020	NA	680	1580	280	190	1932	4
125x100-200	132		315M	720	440	630	1020	NA	680	1580	280	190	2012	4
125x100-250		11	160M	620	340	400	750	NA	440	1160	205	118	1394	4
125x100-250		15	160L	620	340	400	750	NA	440	1160	205	118	1445	4
125x100-250		18.5	180M	620	340	400	750	NA	440	1200	225	135	1520	4
125x100-250		22	180L	620	340	400	750	NA	440	1200	225	135	1558	4
125x100-250		30	200L	635	355	500	820	NA	540	1240	210	120	1460	4
125x100-250	90		280M	720	440	550	880	NA	600	1470	295	205	1759	4
125x100-250	110		315S	760	480	620	950	475	670	1620	280	187	1949	6
125x100-250	132		315M	760	480	620	950	475	670	1620	280	187	2059	6
125x100-250	160		315L	760	480	620	950	475	670	1620	280	187	2059	6
125x100-250	200		315L	760	480	620	950	475	670	1620	280	187	2059	6
125x100-315		18.5	180M	680	365	400	750	NA	440	1235	225	137	1366	4
125x100-315		22	180L	680	365	400	750	NA	440	1235	225	137	1406	4
125x100-315		30	200L	705	390	500	820	NA	540	1255	210	120	1471	4
125x100-315		37	225S	725	410	500	880	NA	540	1310	210	120	1522	4
125x100-315		45	225M	725	410	500	880	NA	540	1310	210	120	1549	4

Note: All dimensions are in mm.

1710 Pump size	Motor Power in kW		Motor frame size	H1	H2	HC1	HC2	HC3	BW	BL	BP	OH	UL	n
	2P	4P												
125X100-400		37	225S	795	440	500	820	NA	550	1325	250	140	1518	4
125X100-400		45	225M	795	440	500	820	NA	550	1325	250	140	1543	4
125X100-400		55	250M	795	440	500	870	NA	550	1390	260	150	1631	4
125X100-400		75	280S	795	440	550	951	NA	600	1490	255	145	1710	4
125X100-400		90	280M	795	440	550	951	NA	600	1490	255	145	1765	4
150x125-250		18.5	180M	720	365	400	750	NA	440	1235	225	137	1366	4
150x125-250		22	180L	720	365	400	750	NA	440	1235	225	137	1406	4
150x125-250		30	200L	745	390	500	820	NA	540	1255	210	120	1478	4
150x125-250		37	225S	765	410	500	880	NA	540	1310	210	120	1522	4
150x125-250		45	225M	765	410	500	880	NA	540	1310	210	120	1549	4
150x125-315		30	200L	775	420	500	820	NA	540	1275	220	110	1478	4
150x125-315		37	225S	795	440	500	820	NA	550	1325	255	145	1522	4
150x125-315		45	225M	795	440	500	820	NA	550	1325	255	145	1549	4
150x125-315		55	250M	795	440	500	870	NA	550	1410	260	150	1631	4
150x125-315		75	280S	795	440	550	951	NA	600	1510	255	145	1705	4
150x125-400		55	250M	875	475	500	870	NA	550	1390	260	150	1628	4
150x125-400		75	280S	875	475	550	880	NA	600	1490	280	172	1705	4
150x125-400		90	280M	875	475	550	880	NA	600	1490	280	172	1761	4
150x125-400		110	315S	875	475	630	1010	NA	680	1570	280	170	1925	4
150x125-400		132	315M	875	475	630	1010	NA	680	1570	280	170	1980	4
200x150-315		45	225M	875	475	550	880	NA	600	1465	300	190	1703	4
200x150-315		55	250M	875	475	550	1050	525	600	1530	240	130	1790	6
200x150-315		75	280S	875	475	550	1050	525	600	1635	300	190	1865	6
200x150-315		90	280M	875	475	550	1050	525	600	1635	300	190	1926	6
200x150-315		110	315S	880	480	630	1140	570	680	1815	285	175	2085	6
250X200-315		55	250M	950	500	550	1050	525	600	1530	240	130	1810	6
250X200-315		75	280S	950	500	550	1050	525	600	1635	300	190	1885	6
250X200-315		90	280M	950	500	550	1050	525	600	1635	300	190	1946	6
250X200-315		110	315S	955	505	630	1140	570	680	1815	285	175	2105	6

Note: All dimensions are in mm.

1710 End suction centrifugal pump - 1710 pump dimensions (pumpset)



1710 Pump size	Motor Power in kW		Motor frame size	Øbh	FC	DNs	DN d	Ds	Ks	Ls	ns	Dd	Kd	Ld	nd	n-MdxL6	Weight (Kg.)
	2P	4P															
50X32-160		0.75	80M	14	80	50	32	165	125	18	4	140	100	18	4	4-M12x300	98
50X32-160		1.1	90S	14	80	50	32	165	125	18	4	140	100	18	4	4-M12x300	102
50X32-160		1.5	90L	14	80	50	32	165	125	18	4	140	100	18	4	4-M12x300	105
50X32-160	5.5		132S	14	80	50	32	165	125	18	4	140	100	18	4	4-M12x300	144
50X32-160	7.5		132S	14	80	50	32	165	125	18	4	140	100	18	4	4-M12x300	194
50X32-160	11		160M	14	80	50	32	165	125	18	4	140	100	18	4	4-M12x300	244
50X32-200		1.1	90S	14	80	50	32	165	125	18	4	140	100	18	4	4-M12x300	104
50X32-200		1.5	90L	14	80	50	32	165	125	18	4	140	100	18	4	4-M12x300	108
50X32-200		2.2	100L	14	80	50	32	165	125	18	4	140	100	18	4	4-M12x300	117
50X32-200		3	100L	14	80	50	32	165	125	18	4	140	100	18	4	4-M12x300	125
50X32-200	7.5		132S	14	80	50	32	165	125	18	4	140	100	18	4	4-M12x300	194
50X32-200	11		160M	14	80	50	32	165	125	18	4	140	100	18	4	4-M12x300	246
50X32-200	15		160M	14	80	50	32	165	125	18	4	140	100	18	4	4-M12x300	257
50X32-200	18.5		160L	14	80	50	32	165	125	18	4	140	100	18	4	4-M12x300	277
65x40-200		1.5	90L	14	100	65	40	185	145	18	4	150	110	18	4	4-M12x300	121
65x40-200		2.2	100L	14	100	65	40	185	145	18	4	150	110	18	4	4-M12x300	130
65x40-200		3	100L	14	100	65	40	185	145	18	4	150	110	18	4	4-M12x300	145
65x40-200		4	112M	14	100	65	40	185	145	18	4	150	110	18	4	4-M12x300	151
65x40-200	11		160M	14	100	65	40	185	145	18	4	150	110	18	4	4-M12x300	258
65x40-200	15		160M	14	100	65	40	185	145	18	4	150	110	18	4	4-M12x300	269
65x40-200	18.5		160L	14	100	65	40	185	145	18	4	150	110	18	4	4-M12x300	290
65x40-200	22		180M	14	100	65	40	185	145	18	4	150	110	18	4	4-M12x300	320
65x40-200	30		200L	14	100	65	40	185	145	18	4	150	110	18	4	4-M12x300	420
65X40-250		3	100L	14	100	65	40	185	145	18	4	150	110	18	4	4-M12x300	142
65X40-250		4	112M	14	100	65	40	185	145	18	4	150	110	18	4	4-M12x300	151
65X40-250		5.5	132S	14	100	65	40	185	145	18	4	150	110	18	4	4-M12x300	171
65X40-250		7.5	132M	14	100	65	40	185	145	18	4	150	110	18	4	4-M12x300	191
65X50-160		0.75	80M	14	80	65	50	185	145	18	4	165	125	18	4	4-M12x300	106
65X50-160		1.1	90S	14	80	65	50	185	145	18	4	165	125	18	4	4-M12x300	108

Note: All dimensions are in mm.

1710 Pump size	Motor Power in kW		Motor frame size	Øbh	FC	DNs	DN d	Ds	Ks	Ls	ns	Dd	Kd	Ld	nd	n-MdxL6	Weight (Kg.)
	2P	4P															
65X50-160		1.5	90L	14	80	65	50	185	145	18	4	165	125	18	4	4-M12x300	118
65X50-160		2.2	100L	14	80	65	50	185	145	18	4	165	125	18	4	4-M12x300	130
65X50-160	7.5		132S	14	80	65	50	185	145	18	4	165	125	18	4	4-M12x300	116
65X50-160	11		160M	14	80	65	50	185	145	18	4	165	125	18	4	4-M12x300	168
65X50-160	15		160M	14	80	65	50	185	145	18	4	165	125	18	4	4-M12x300	178
80x50-200		3	100L	14	100	80	50	200	160	18	8	165	125	18	4	4-M12x300	187
80x50-200		4	112M	14	100	80	50	200	160	18	8	165	125	18	4	4-M12x300	243
80x50-200		5.5	132S	14	100	80	50	200	160	18	8	165	125	18	4	4-M12x300	273
80x50-200		7.5	132M	14	100	80	50	200	160	18	8	165	125	18	4	4-M12x300	290
80x50-200	18.5		160L	14	100	80	50	200	160	18	8	165	125	18	4	4-M12x300	303
80x50-200	22		180M	14	100	80	50	200	160	18	8	165	125	18	4	4-M12x300	333
80x50-200	30		200L	22	100	80	50	200	160	18	8	165	125	18	4	4-M20x400	422
80x50-200	37		200L	22	100	80	50	200	160	18	8	165	125	18	4	4-M20x400	442
80x50-200	45		225M	22	100	80	50	200	160	18	8	165	125	18	4	4-M20x400	512
80x50-250		5.5	132S	18	125	80	50	200	160	18	8	165	125	18	4	4-M16x400	258
80x50-250		7.5	132M	18	125	80	50	200	160	18	8	165	125	18	4	4-M16x400	270
80x50-250		11	160M	18	125	80	50	200	160	18	8	165	125	18	4	4-M16x400	300
80x50-250	30		200L	22	125	80	50	200	160	18	8	165	125	18	4	4-M20x400	422
80x50-250	37		200L	22	125	80	50	200	160	18	8	165	125	18	4	4-M20x400	442
80x50-250	45		225M	22	125	80	50	200	160	18	8	165	125	18	4	4-M20x400	520
80x50-250	55		250M	22	125	80	50	200	160	18	8	165	125	18	4	4-M20x400	585
80x50-250	75		280S	22	125	80	50	200	160	18	8	165	125	18	4	4-M20x400	705
80x50-315		7.5	132M	18	125	80	50	200	160	18	8	165	125	18	4	4-M16x400	257
80x50-315		11	160M	18	125	80	50	200	160	18	8	165	125	18	4	4-M16x400	300
80x50-315		15	160L	18	125	80	50	200	160	18	8	165	125	18	4	4-M16x400	340
80x65-160		1.5	90L	14	100	80	65	200	160	18	8	185	145	18	4	4-M12x300	176
80x65-160		2.2	100L	14	100	80	65	200	160	18	8	185	145	18	4	4-M12x300	180
80x65-160		3	100L	14	100	80	65	200	160	18	8	185	145	18	4	4-M12x300	190
80x65-160	11		160M	14	100	80	65	200	160	18	8	185	145	18	4	4-M12x300	225
80x65-160	15		160M	14	100	80	65	200	160	18	8	185	145	18	4	4-M12x300	235
80x65-160	18.5		160L	14	100	80	65	200	160	18	8	185	145	18	4	4-M12x300	255
80x65-160	22		180M	14	100	80	65	200	160	18	8	185	145	18	4	4-M12x300	322
100x65-200		5.5	132S	18	100	100	65	220	180	18	8	185	145	18	4	4-M16x400	232
100x65-200		7.5	132M	18	100	100	65	220	180	18	8	185	145	18	4	4-M16x400	237
100x65-200		11	160M	18	100	100	65	220	180	18	8	185	145	18	4	4-M16x400	287
100x65-200	30		200L	22	100	100	65	220	180	18	8	185	145	18	4	4-M20x400	416
100x65-200	37		200L	22	100	100	65	220	180	18	8	185	145	18	4	4-M20x400	436
100x65-200	45		225M	22	100	100	65	220	180	18	8	185	145	18	4	4-M20x400	516
100x65-200	55		250M	22	100	100	65	220	180	18	8	185	145	18	4	4-M20x400	576
100x65-200	75		280S	22	100	100	65	220	180	18	8	185	145	18	4	4-M20x400	696
100x65-250		7.5	132M	18	125	100	65	220	180	18	8	185	145	18	4	4-M16x400	306

Note: All dimensions are in mm.

1710 Pump size	Motor Power in kW		Motor frame size	Øbh	FC	DNs	DN d	Ds	Ks	Ls	ns	Dd	Kd	Ld	nd	n-MdxL6	Weight (Kg.)
	2P	4P															
100x65-250		11	160M	18	125	100	65	220	180	18	8	185	145	18	4	4-M16x400	350
100x65-250		15	160L	18	125	100	65	220	180	18	8	185	145	18	4	4-M16x400	378
100x65-250	55		250M	28	125	100	65	220	180	18	8	185	145	18	4	4-M24x500	595
100x65-250	75		280S	28	125	100	65	220	180	18	8	185	145	18	4	4-M24x500	715
100x65-250	90		280M	28	125	100	65	220	180	18	8	185	145	18	4	4-M24x500	775
100x65-250	110		315S	28	125	100	65	220	180	18	8	185	145	18	4	4-M24x500	1075
100x65-250	132		315M	28	125	100	65	220	180	18	8	185	145	18	4	4-M24x500	1175
100x65-315		15	160L	18	125	100	65	220	180	18	8	185	145	18	4	4-M16x400	350
100x65-315		18.5	180M	18	125	100	65	220	180	18	8	185	145	18	4	4-M16x400	390
100x65-315		22	180L	18	125	100	65	220	180	18	8	185	145	18	4	4-M16x400	440
100x65-315		30	200L	18	125	100	65	220	180	18	8	185	145	18	4	4-M16x400	460
100X80-160		2.2	100L	14	100	100	80	220	180	18	8	200	160	18	8	4-M12x300	301
100X80-160		3	100L	14	100	100	80	220	180	18	8	200	160	18	8	4-M12x300	306
100X80-160		4	112M	14	100	100	80	220	180	18	8	200	160	18	8	4-M12x300	320
100X80-160		5.5	132S	14	100	100	80	220	180	18	8	200	160	18	8	4-M12x300	330
100X80-160	18.5		160L	18	100	100	80	220	180	18	8	200	160	18	8	4-M16x400	239
100X80-160	22		180M	18	100	100	80	220	180	18	8	200	160	18	8	4-M16x400	308
100X80-160	30		200L	18	100	100	80	220	180	18	8	200	160	18	8	4-M16x400	378
100X80-160	37		200L	18	100	100	80	220	180	18	8	200	160	18	8	4-M16x400	398
125x100-200		7.5	132M	18	125	125	100	250	210	18	8	220	180	18	8	4-M16x400	306
125x100-200		11	160M	18	125	125	100	250	210	18	8	220	180	18	8	4-M16x400	351
125x100-200		15	160L	18	125	125	100	250	210	18	8	220	180	18	8	4-M16x400	371
125x100-200		18.5	180M	18	125	125	100	250	210	18	8	220	180	18	8	4-M16x400	400
125x100-200	55		250M	28	125	125	100	250	210	18	8	220	180	18	8	4-M24x500	594
125x100-200	75		280S	28	125	125	100	250	210	18	8	220	180	18	8	4-M24x500	714
125x100-200	90		280M	28	125	125	100	250	210	18	8	220	180	18	8	4-M24x500	774
125x100-200	110		315S	28	125	125	100	250	210	18	8	220	180	18	8	4-M24x500	1190
125x100-200	132		315M	28	125	125	100	250	210	18	8	220	180	18	8	4-M24x500	1300
125x100-250		11	160M	18	124	125	100	250	210	18	8	220	180	18	8	4-M16x400	239
125x100-250		15	160L	18	124	125	100	250	210	18	8	220	180	18	8	4-M16x400	361
125x100-250		18.5	180M	18	124	125	100	250	210	18	8	220	180	18	8	4-M16x400	390
125x100-250		22	180L	18	124	125	100	250	210	18	8	220	180	18	8	4-M16x400	405
125x100-250		30	200L	18	124	125	100	250	210	18	8	220	180	18	8	4-M16x400	430
125x100-250	90		280M	28	140	125	100	250	210	18	8	220	180	18	8	4-M24x500	805
125x100-250	110		315S	28	140	125	100	250	210	18	8	220	180	18	8	6-M24x500	1176
125x100-250	132		315M	28	140	125	100	250	210	18	8	220	180	18	8	6-M24x500	1281
125x100-250	160		315L	28	140	125	100	250	210	18	8	220	180	18	8	6-M24x500	1350
125x100-250	200		315L	28	140	125	100	250	210	18	8	220	180	18	8	6-M24x500	1450
125x100-315		18.5	180M	18	140	125	100	250	210	18	8	220	180	18	8	4-M16x400	419
125x100-315		22	180L	18	140	125	100	250	210	18	8	220	180	18	8	4-M16x400	438
125x100-315		30	200L	22	140	125	100	250	210	18	8	220	180	18	8	4-M20x400	509

Note: All dimensions are in mm.

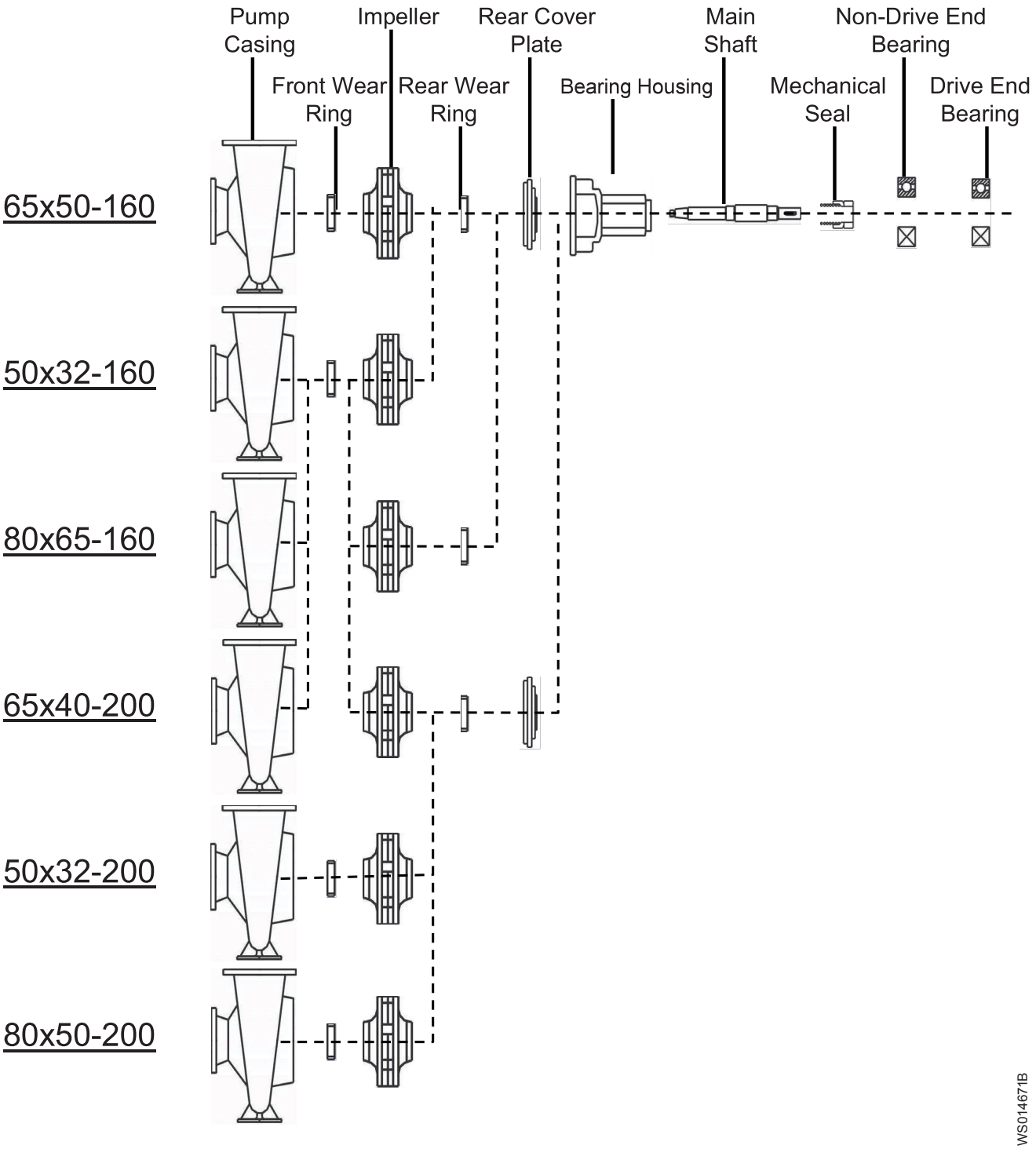
1710 Pump size	Motor Power in kW		Motor frame size	Øbh	FC	DNs	DN d	Ds	Ks	Ls	ns	Dd	Kd	Ld	nd	n-MdxL6	Weight (Kg.)
	2P	4P															
125x100-315		37	225S	22	140	125	100	250	210	18	8	220	180	18	8	4-M20x400	560
125x100-315		45	225M	22	140	125	100	250	210	18	8	220	180	18	8	4-M20x400	610
125X100-400		37	225S	28	140	125	100	250	210	18	8	220	180	18	8	4-M24x500	646
125X100-400		45	225M	28	140	125	100	250	210	18	8	220	180	18	8	4-M24x500	683
125X100-400		55	250M	28	140	125	100	250	210	18	8	220	180	18	8	4-M24x500	770
125X100-400		75	280S	28	140	125	100	250	210	18	8	220	180	18	8	4-M24x500	810
125X100-400		90	280M	28	140	125	100	250	210	18	8	220	180	18	8	4-M24x500	880
150x125-250		18.5	180M	18	140	150	125	285	240	22	8	250	210	18	8	4-M16x400	407
150x125-250		22	180L	18	140	150	125	285	240	22	8	250	210	18	8	4-M16x400	426
150x125-250		30	200L	18	140	150	125	285	240	22	8	250	210	18	8	4-M16x400	506
150x125-250		37	225S	18	140	150	125	285	240	22	8	250	210	18	8	4-M16x400	560
150x125-250		45	225M	18	140	150	125	285	240	22	8	250	210	18	8	4-M16x400	590
150x125-315		30	200L	22	140	150	125	285	240	22	8	250	210	18	8	4-M20x400	570
150x125-315		37	225S	28	140	150	125	285	240	22	8	250	210	18	8	4-M24x500	627
150x125-315		45	225M	28	140	150	125	285	240	22	8	250	210	18	8	4-M24x500	655
150x125-315		55	250M	28	140	150	125	285	240	22	8	250	210	18	8	4-M24x500	725
150x125-315		75	280S	28	140	150	125	285	240	22	8	250	210	18	8	4-M24x500	775
150x125-400		55	250M	28	140	150	125	285	240	22	8	250	210	18	8	4-M24x500	785
150x125-400		75	280S	28	140	150	125	285	240	22	8	250	210	18	8	4-M24x500	939
150x125-400		90	280M	28	140	150	125	285	240	22	8	250	210	18	8	4-M24x500	1000
150x125-400		110	315S	28	140	150	125	285	240	22	8	250	210	18	8	4-M24x500	1350
150x125-400		132	315M	28	140	150	125	285	240	22	8	250	210	18	8	4-M24x500	1495
200x150-315		45	225M	28	160	200	150	340	295	22	12	285	240	22	8	4-M24x500	708
200x150-315		55	250M	28	160	200	150	340	295	22	12	285	240	22	8	6-M24x500	789
200x150-315		75	280S	28	160	200	150	340	295	22	12	285	240	22	8	6-M24x500	877
200x150-315		90	280M	28	160	200	150	340	295	22	12	285	240	22	8	6-M24x500	920
200x150-315		110	315S	28	160	200	150	340	295	22	12	285	240	22	8	6-M24x500	1220
250X200-315		55	250M	28	180	250	200	405	355	28	12	340	295	22	12	6-M24x500	919
250X200-315		75	280S	28	180	250	200	405	355	28	12	340	295	22	12	6-M24x500	1050
250X200-315		90	280M	28	180	250	200	405	355	28	12	340	295	22	12	6-M24x500	1100
250X200-315		110	315S	28	180	250	200	405	355	28	12	340	295	22	12	6-M24x500	1400

Note: All dimensions are in mm.

3 1710 End suction centrifugal pump – 1710 pump component interchangeability group

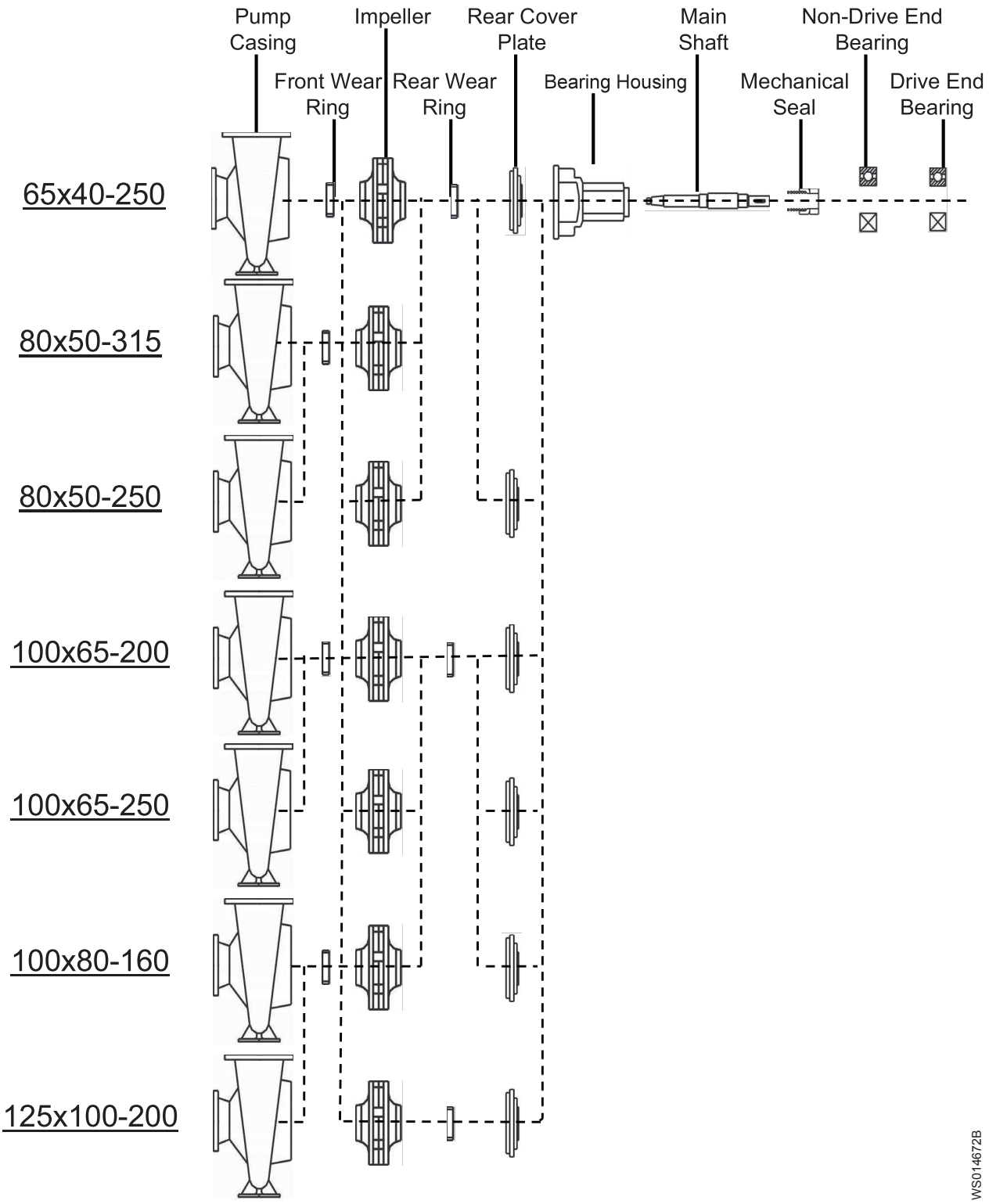
EN

Group 1

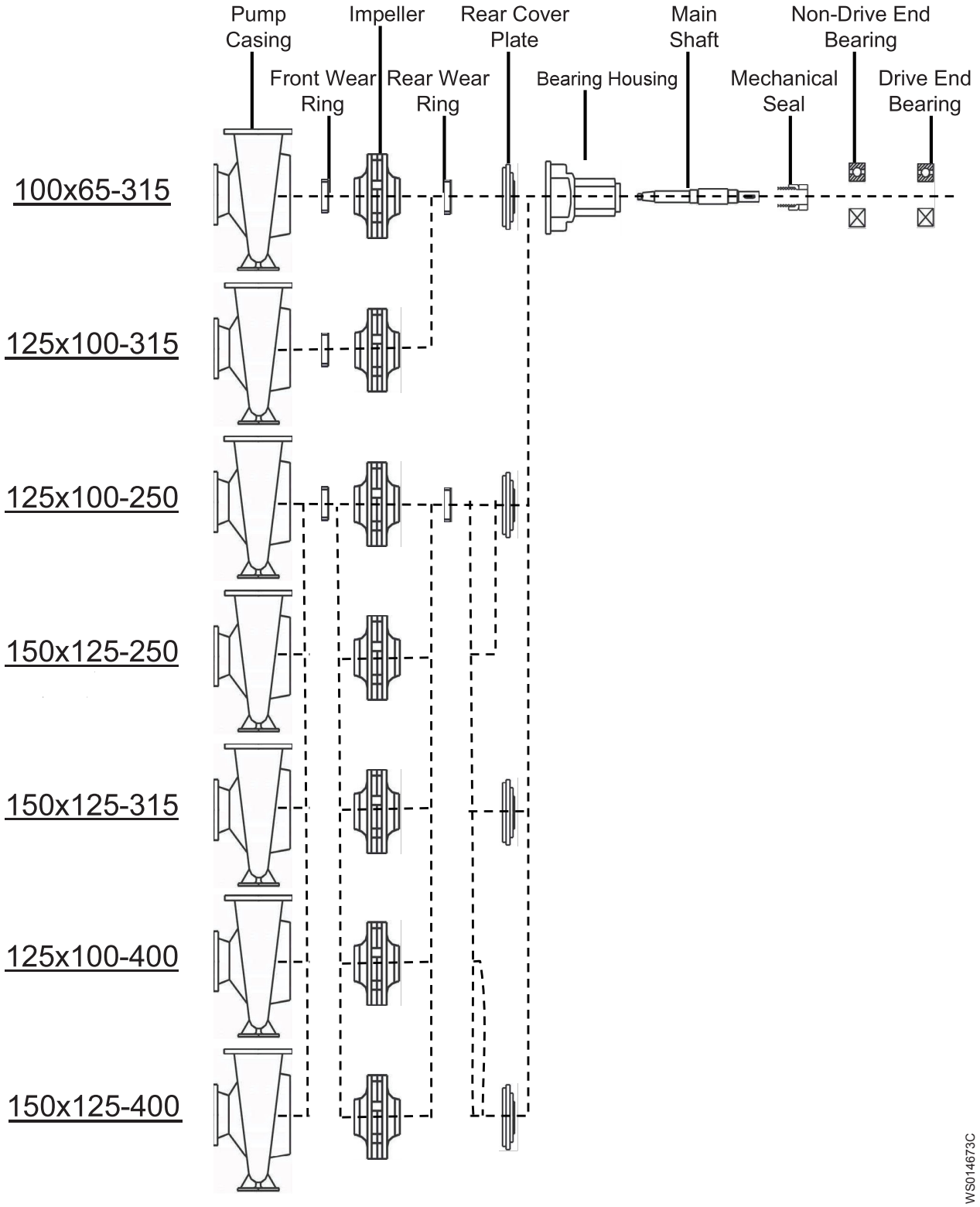


EN

Group 2

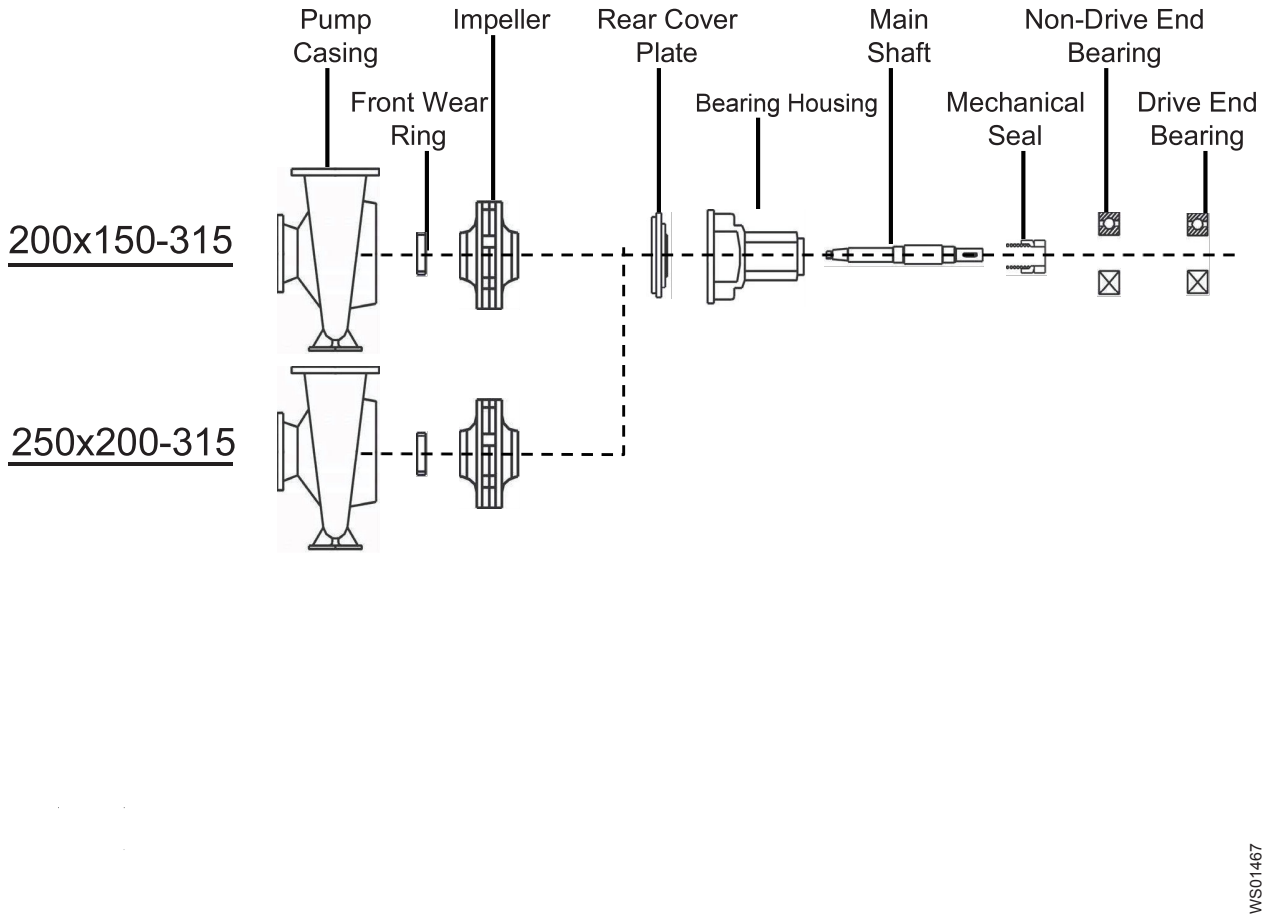

Pump Casing
Impeller
Rear Cover Plate
Main Shaft
Non-Drive End Bearing
Front Wear Ring
Rear Wear Ring
Bearing Housing
Mechanical Seal
Drive End Bearing
65x40-250
80x50-315
80x50-250
100x65-200
100x65-250
100x80-160
125x100-200
WS014672B

Group 3


Pump Casing
Impeller
Rear Cover Plate
Main Shaft
Non-Drive End Bearing
Front Wear Ring
Rear Wear Ring
Bearing Housing
Mechanical Seal
Drive End Bearing
100x65-315
125x100-315
125x100-250
150x125-250
150x125-315
125x100-400
150x125-400
WS014673C

EN

Group 4


Pump Casing
Impeller
Rear Cover Plate
Main Shaft
Non-Drive End Bearing
Front Wear Ring
Bearing Housing
Mechanical Seal
Drive End Bearing
200x150-315
250x200-315
WS01467

4 1710 End suction centrifugal pump – technical data (standard construction)

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A. Pump	Unit	50–32–160	50–32–200	65–40–250	65-40–315	65–50–160
1. Water outlet	mm	32	32	40	40	50
2. Water inlet	mm	50	50	65	65	65
3. Flange hole		AS2129–1982 label " E "PN16 standard				
4. Impeller structure		Single-suction double seal ring type				
5. Mean thickness of pump casing	mm	8	8	9	10	8
6. Pole number of pump		1	1	1	1	1
7. Pump casing structure		Radial split back pulling type				
8. Weight of pump head	kg	38	46	70	80	40
9. Total delivery quantity	m^3	0.0326	0.038	0.0778	0.0971	0.0326
10. Bearing type		1	1	2	2	1

B. Impeller	Unit	50–32–160	50–32–200	65–40–250	65-40–315	65–50–160
1. Max. impeller diameter	mm	182	228	278	342	182
2. Weight of impeller (Bronze)	kg	5.5	6.5	9.8	18	5.4
Weight of impeller (SS304)	kg	5.1	6.0	9.0	16.6	5.0
3. Weight of bearing	kg	0.464	0.464	0.829	0.829	0.464
4. Max. redundancy of friction ring	mm	0.3054	0.3054	0.3054	0.3054	0.3054
Min. redundancy of friction ring	mm	0.3	0.3	0.3	0.3	0.3
5. Max. rotation inertia (Bronze)	$kg.m^2$	0.0149	0.0292	0.0725	0.1901	0.0166
Max. rotation inertia (SS304)	$kg.m^2$	0.0131	0.0258	0.0639	0.1677	0.0146

Shaft and bearing	Unit	50–32–160	50–32–200	65–40–250	65-40–315	65–50–160
1. Shaft diameter (at impeller)	mm	25	25	35	35	25

EN

Shaft and bearing	Unit	50–32–160	50–32–200	65–40–250	65-40–315	65–50–160
2. Shaft diameter (at coupling)	mm	24	24	32	32	24
3. Bearing center distance	mm	154	154	224	224	154
4. The 1st critical rotation speed	RPM	8.76×10^2	8.28×10^2	5.07×10^4	4.35×10^4	8.53×10^2
5. Bearing type (drive end)		6306ZZ (30x72x19)		630877 (40x90x23)		6306ZZ (30x72x19)
6. Bearing type (pump head end)		6306ZZ (35x80x21)		630944 (40x100x25)		6306ZZ (35x80x21)

Mechanical seal	Unit	50–32–160	50–32–200	65–40–250	65-40–315	65–50–160
1. Material of mechanical seal		Carbon / ceramic / fluorine rubber (dynamic / static ring / rubber)				
2. Specification of mechanical seal	mm	32		43		32

Operation limits	Unit	50–32–160	50–32–200	65–40–250	65-40–315	65–50–160
1. Max. operating pressure	Bar	16	16	16	16	16
2. Max. water flow pressure	Bar	24	24	24	24	24
3. Max. intake water pressure	Bar	7.5	6	3.5	2	7.5
4. Service life of bearing (calculated)	Hours	44385	43125	39285	35670	44000
5. Max. temperature of mechanical seal	Deg C	100	100	100	100	100
6. Max. speed (drive end)	RPM	3600	3600	3600	3000	3600

A. Pump	Unit	100–80–160	125–80–400	125-100–400
1. Water outlet	mm	60	80	100
2. Water inlet	mm	100	125	125
3. Flange hole		AS2129–1982 label " E "PN16 standard		
4. Impeller structure		Single-suction double-seal-ring type		
5. Mean thickness of pump casing	mm	9	15	15
6. Pole number of pump		1	1	1
7. Pump casing structure		Radial split back pulling type		
8. Weight of pump head	kg	68	165	175
9. Total delivery quantity	m^3	0.0605	0.181	0.2128
10. Bearing type		2	3	3

B. Impeller	Unit	100–80–160	125–80–400	125-100–400
1. Max. impeller diameter	mm	182	438	438
2. Weight of impeller (Bronze)	kg	7.4	28	28
Weight of impeller (SS304)	kg	6.6	25.8	25.8
3. Weight of bearing	kg	0.829	1.37	1.37
4. Max. redundancy of friction ring	mm	0.413	0.522	0.522
Min. redundancy of friction ring	mm	0.35	0.45	0.45
5. Max. rotation inertia (Bronze)	$kg.m^2$	0.0232	0.6235	0.5995
Max. rotation inertia (SS304)	$kg.m^2$	0.0205	0.5499	0.5288

Shaft and bearing	Unit	100–80–160	125–80–400	125-100–400
1. Shaft diameter (at impeller)	mm	35	45	45
2. Shaft diameter (at coupling)	mm	32	42	42
3. Bearing center distance	mm	224	192	192
4. The 1st critical rotation speed	RPM	5.42×10^4	8.24×10^4	6.32×10^4
5. Bearing type (drive end)		6308ZZ (40x90x23)	6310ZZ (50x110x27)	6313ZZ (65x140x33)
6. Bearing type (pump head end)		6309ZZ (45x100x25)	6311ZZ (55x120x28)	6313ZZ (65x140x33)

Mechanical seal	Unit	100–80–160	125–80–400	125-100–400
1. Material of mechanical seal		Carbon / ceramic / fluorine rubber (dynamic / static ring / rubber)		
2. Specification of mechanical seal	mm	43	53	60

Operation limits	Unit	100–80–160	125–80–400	125-100–400
1. Max. operating pressure	Bar	16	16	16
2. Max. water flow pressure	Bar	24	24	24
3. Max. intake water pressure	Bar	7.7	2	7
4. Service life of bearing (calculated)	Hours	43056	38150	35450
5. Max. temperature of mechanical seal	Deg C	100	100	100
6. Max. speed (drive end)	RPM	3600	2350	2350

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A. Pump	Unit	65–40–200
1. Water outlet	mm	40
2. Water inlet	mm	65
3. Flange hole		AS2129–1982 label " E "PN16 standard
4. Impeller structure		Single-suction double-seal-ring type
5. Mean thickness of pump casing	mm	8
6. Pole number of pump		1
7. Pump casing structure		Radial split back pulling type
8. Weight of pump head	kg	48
9. Total delivery quantity	m^3	0.0437
10. Bearing type		1

B. Impeller	Unit	65–40–200
1. Max. impeller diameter	mm	228
2. Weight of impeller (Bronze)	kg	8.4
Weight of impeller (SS304)	kg	7.8
3. Weight of bearing	kg	0.464
4. Max. redundancy of friction ring	mm	0.3054
Min. redundancy of friction ring	mm	0.3
5. Max. rotation inertia (Bronze)	$kg.m^2$	0.0325
Max. rotation inertia (SS304)	$kg.m^2$	0.0287

Shaft and bearing	Unit	65–40–200
1. Shaft diameter (at impeller)	mm	25
2. Shaft diameter (at coupling)	mm	24
3. Bearing center distance	mm	154
4. The 1st critical rotation speed	RPM	8.04×10^2
5. Bearing type (drive end)		6306ZZ (30x72x19)
6. Bearing type (pump head end)		6306ZZ (35x80x21)

Mechanical seal	Unit	65–40–200
1. Material of mechanical seal		Carbon / ceramic / fluorine rubber (dynamic / static ring / rubber)
2. Specification of mechanical seal	mm	32

Operation limits	Unit	65–40–200
1. Max. operating pressure	Bar	16
2. Max. water flow pressure	Bar	24
3. Max. intake water pressure	Bar	6
4. Service life of bearing (calculated)	Hours	42560
5. Max. temperature of mechanical seal	Deg C	100
6. Max. speed (drive end)	RPM	3600

A. Pump	Unit	80–65–160	80–50–200
1. Water outlet	mm	65	50
2. Water inlet	mm	80	80
3. Flange hole		AS2129–1982 label " E "PN16 standard	

A. Pump	Unit	80–65–160	80–50–200
4. Impeller structure		Single-suction double-seal-ring type	
5. Mean thickness of pump casing	mm	9	9
6. Pole number of pump		1	1
7. Pump casing structure		Radial split back pulling type	
8. Weight of pump head	kg	46	52
9. Total delivery quantity	m^3	0.0437	0.0463
10. Bearing type		1	1

B. Impeller	Unit	80–65–160	80–50–200
1. Max. impeller diameter	mm	162	228
2. Weight of impeller (Bronze)	kg	5.4	8.4
Weight of impeller (SS304)	kg	5.0	7.8
3. Weight of bearing	kg	0.464	0.464
4. Max. redundancy of friction ring	mm	0.3	0.3
Min. redundancy of friction ring	mm	0.0149	0.0325
5. Max. rotation inertia (Bronze)	$kg.m^2$	0.0149	0.0325
Max. rotation inertia (SS304)	$kg.m^2$	0.0131	0.0287

Shaft and bearing	Unit	80–65–160	80–50–200
1. Shaft diameter (at impeller)	mm	35	35
2. Shaft diameter (at coupling)	mm	32	32
3. Bearing center distance	mm	154	154
4. The 1st critical rotation speed	RPM	8.75×10^4	8.75×10^4
5. Bearing type (drive end)		6306ZZ (30x72x19)	
6. Bearing type (pump head end)		6307ZZ (35x80x21)	

Mechanical seal	Unit	80–65–160	80–50–200
1. Material of mechanical seal		Carbon / ceramic / fluorine rubber (dynamic / static ring / rubber)	
2. Specification of mechanical seal	mm	32	

Operation limits	Unit	80–65–160	80–50–200
1. Max. operating pressure	Bar	16	16
2. Max. water flow pressure	Bar	24	24
3. Max. intake water pressure	Bar	7.5	6
4. Service life of bearing (calculated)	Hours	41550	42560
5. Max. temperature of mechanical seal	Deg C	100	100
6. Max. speed (drive end)	RPM	3600	3600

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A. Pump	Unit	80–50–250	80–50–315	100–65–200
1. Water outlet	mm	50	50	65
2. Water inlet	mm	80	80	100
3. Flange hole		AS2129–1982 label " E "PN16 standard		
4. Impeller structure		Single-suction double-seal-ring type		
5. Mean thickness of pump casing	mm	9	12	9
6. Pole number of pump		1	1	1
7. Pump casing structure		Radial split back pulling type		
8. Weight of pump head	kg	72	67	70
9. Total delivery quantity	m^3	0.061	0.1089	0.0778
10. Bearing type		2	2	2

B. Impeller	Unit	80–50–250	80–50–315	100–65–200
1. Max. impeller diameter	mm	278	342	228
2. Weight of impeller (Bronze)	kg	12.5	14	10.5
Weight of impeller (SS304)	kg	11.5	12.9	9.7
3. Weight of bearing	kg	0.829	0.829	0.829
4. Max. redundancy of friction ring	mm	0.404	0.404	0.413
Min. redundancy of friction ring	mm	0.35	0.35	0.35
5. Max. rotation inertia (Bronze)	$kg.m^2$	0.0734	0.1842	0.0448
Max. rotation inertia (SS304)	$kg.m^2$	0.0647	0.1625	0.0395

Shaft and bearing	Unit	80–50–250	80–50–315	100–65–200
1. Shaft diameter (at impeller)	mm	35	35	35
2. Shaft diameter (at coupling)	mm	32	32	32
3. Bearing center distance	mm	224	224	224
4. The 1st critical rotation speed	RPM	8.75×10^4		8.75×10^4
5. Bearing type (drive end)		6308ZZ (40x90x23)		
6. Bearing type (pump head end)		6309ZZ (45x100x25)		

Mechanical seal	Unit	80–50–250	80–50–315	100–65–200
1. Material of mechanical seal		Carbon / ceramic / fluorine rubber (dynamic / static ring / rubber)		
2. Specification of mechanical seal	mm	43		

Operation limits	Unit	80–50–250	80–50–315	100–65–200
1. Max. operating pressure	Bar	16	16	16
2. Max. water flow pressure	Bar	24	24	24
3. Max. intake water pressure	Bar	3.5	2	6
4. Service life of bearing (calculated)	Hours	36578	30867	38057
5. Max. temperature of mechanical seal	Deg C	100	100	100
6. Max. speed (drive end)	RPM	3600	3600	3600

A. Pump	Unit	100–65–250	100–65–315	125-100–200
1. Water outlet	mm	65	65	100
2. Water inlet	mm	100	100	125
3. Flange hole		AS2129–1982 label " E "PN16 standard		
4. Impeller structure		Single-suction double-seal-ring type		
5. Mean thickness of pump casing	mm	10	12	12
6. Pole number of pump		1	1	1
7. Pump casing structure		Radial split back pulling type		
8. Weight of pump head	kg	80	118	85
9. Total delivery quantity	m^3	0.1013	0.1324	0.106
10. Bearing type		2	3	2

B. Impeller	Unit	100–65–250	100–65–315	125-100–200
1. Max. impeller diameter	mm	278	342	228
2. Weight of impeller (Bronze)	kg	10.2	16.6	9.2
Weight of impeller (SS304)	kg	9.4	15.3	8.5
3. Weight of bearing	kg	0.829	1.37	0.829
4. Max. redundancy of friction ring	mm	0.413	0.463	0.463
Min. redundancy of friction ring	mm	0.35	0.4	0.4
5. Max. rotation inertia (Bronze)	$kg.m^2$	0.0734	0.2047	0.0533
Max. rotation inertia (SS304)	$kg.m^2$	0.0647	0.1806	0.0470

Shaft and bearing	Unit	100–65–250	100–65–315	125-100–200
1. Shaft diameter (at impeller)	mm	35	45	35
2. Shaft diameter (at coupling)	mm	32	42	32

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Shaft and bearing	Unit	100–65–250	100–65–315	125-100–200
3. Bearing center distance	mm	224	192	224
4. The 1st critical rotation speed	RPM	5.05 x 10^4	7.51 x 10^4	4.96 x 10^4
5. Bearing type (drive end)		6308ZZ (40x90x23)		
6. Bearing type (pump head end)		6309ZZ (45x100x25)		

Mechanical seal	Unit	100–65–250	100–65–315	125-100–200
1. Material of mechanical seal		Carbon / ceramic / fluorine rubber (dynamic / static ring / rubber)		
2. Specification of mechanical seal	mm	43		

Operation limits	Unit	100–65–250	100–65–315	125-100–200
1. Max. operating pressure	Bar	16	16	16
2. Max. water flow pressure	Bar	24	24	24
3. Max. intake water pressure	Bar	3.5	2	6
4. Service life of bearing (calculated)	Hours	28557	18000	28345
5. Max. temperature of mechanical seal	Deg C	100	100	100
6. Max. speed (drive end)	RPM	3600	3600	3600

A. Pump	Unit	125–100–250	125–100–315
1. Water outlet	mm	100	100
2. Water inlet	mm	125	125
3. Flange hole		AS2129–1982 label " E "PN16 standard	
4. Impeller structure		Single-suction double-seal-ring type	
5. Mean thickness of pump casing	mm	11	15
6. Pole number of pump		1	1
7. Pump casing structure		Radial split back pulling type	
8. Weight of pump head	kg	126	135
9. Total delivery quantity	m^3	0.1354	0.1515
10. Bearing type		3	3

B. Impeller	Unit	125–100–250	125–100–315
1. Max. impeller diameter	mm	278	274
2. Weight of impeller (Bronze)	kg	15.2	19.8
Weight of impeller (SS304)	kg	14.0	18.3
3. Weight of bearing	kg	1.37	1.37
4. Max. redundancy of friction ring	mm	0.522	0.463

B. Impeller	Unit	125–100–250	125–100–315
Min. redundancy of friction ring	mm	0.45	0.4
5. Max. rotation inertia (Bronze)	$kg.m^2$	0.1256	0.1314
Max. rotation inertia (SS304)	$kg.m^2$	0.1108	0.1159

Shaft and bearing	Unit	125–100–250	125–100–315
1. Shaft diameter (at impeller)	mm	45	45
2. Shaft diameter (at coupling)	mm	42	42
3. Bearing center distance	mm	192	192
4. The 1st critical rotation speed	RPM	7.65×10^4	7.51×10^4
5. Bearing type (drive end)		6310ZZ (50x120x27)	
6. Bearing type (pump head end)		6309ZZ (55x120x29)	

Mechanical seal	Unit	125–100–250	125–100–315
1. Material of mechanical seal		Carbon / ceramic / fluorine rubber (dynamic / static ring / rubber)	
2. Specification of mechanical seal	mm	53	

Operation limits	Unit	125–100–250	125–100–315
1. Max. operating pressure	Bar	16	16
2. Max. water flow pressure	Bar	24	24
3. Max. intake water pressure	Bar	3.5	2
4. Service life of bearing (calculated)	Hours	18122	17500
5. Max. temperature of mechanical seal	Deg C	100	100
6. Max. speed (drive end)	RPM	3000	3000

A. Pump	Unit	150–125–250	150-125-315	150–125–400	150–125–500
1. Water outlet	mm	125	125	115	125
2. Water inlet	mm	150	150	150	150
3. Flange hole		AS2129–1982 label " L "PN16 standard			
4. Impeller structure		Single-suction double-seal-ring type		Single-suction single seal ring type	
5. Mean thickness of pump casing	mm	14	15	16	20
6. Pole number of pump		1	1	1	1
7. Pump casing structure		Radial split back pulling type			
8. Weight of pump head	kg	140	150	196	336
9. Total delivery quantity	m^3	0.1622	0.2128	0.2396	03675
10. Bearing type		3	3	3	4

EN

B. Impeller	Unit	150–125–250	150-125-315	150–125–400	150–125–500
1. Max. impeller diameter	mm	278	342	438	438
2. Weight of impeller (Bronze)	kg	15.2	20.2	28.5	42.5
Weight of impeller (SS304)	kg	14.0	18.6	26.3	39.2
3. Weight of bearing	kg	1.37	1.37	1.37	2.11
4. Max. redundancy of friction ring	mm	0.522	0.522	0.522	0.522
Min. redundancy of friction ring	mm	0.45	0.45	0.45	0.45
5. Max. rotation inertia (Bronze)	$kg.m^2$	0.1159	0.2396	0.5516	0.9592
Max. rotation inertia (SS304)	$kg.m^2$	0.1022	0.2113	0.4865	0.8460

Shaft and bearing	Unit	150–125–250	150-125-315	150–125–400	150–125–500
1. Shaft diameter (at impeller)	mm	45	45	45	53
2. Shaft diameter (at coupling)	mm	42	42	42	48
3. Bearing center distance	mm	192	192	192	258
4. The 1st critical rotation speed	RPM	7.81×10^4	7.19×10^1	8.5×10^2	4.11×10^2
5. Bearing type (drive end)		6310ZZ (50x110x27)		6313ZZ (65x140x33)	
6. Bearing type (pump head end)		6309ZZ (55x120x29)		6313ZZ (65x140x33)	

Mechanical seal	Unit	150–125–250	150-125-315	150–125–400	150–125–500
1. Material of mechanical seal		Carbon / ceramic / fluorine rubber (dynamic / static ring / rubber)			
2. Specification of mechanical seal	mm	53		60	

Operation limits	Unit	150–125–250	150-125-315	150–125–400	150–125–500
1. Max. operating pressure	Bar	16	16	16	16
2. Max. water flow pressure	Bar	24	24	24	24
3. Max. intake water pressure	Bar	3.5	2	7	4.5
4. Service life of bearing (calculated)	Hours	42000	39235	32000	24538
5. Max. temperature of mechanical seal	Deg C	100	100	100	100
6. Max. speed (drive end)	RPM	2350	2350	2350	1800

A. Pump	Unit	200–150–315	200–150–400	200–150–500	250-200–315	250–200–400
1. Water outlet	mm	150	150	150	200	200
2. Water inlet	mm	200	200	220	250	250
3. Flange hole		AS2129–1982 label " E "PN16 standard				
4. Impeller structure		Single-suction single seal ring type				
5. Mean thickness of pump casing	mm	16	18	22	17	19
6. Pole number of pump		1	1	1	1	1
7. Pump casing structure		Radial split back pulling type				
8. Weight of pump head	kg	222	300	382	277	340
9. Total delivery quantity	m^3	0.3264	0.3493	0.4109	0.3577	0.3998
10. Bearing type		4	4	4	4	4

B. Impeller	Unit	200–150–315	200–150–400	200–150–500	250-200–315	250–200–400
1. Max. impeller diameter	mm	342	438	547	342	438
2. Weight of impeller (Bronze)	kg	23.2	42	51.6	34.6	37.6
Weight of impeller (SS304)	kg	21.4	38.8	47.6	31.9	37.6
3. Weight of bearing	kg	2.11	2.11	2.11	2.11	2.11
4. Max. redundancy of friction ring	mm	0.572	0.572	0.572	0.581	0.581
Min. redundancy of friction ring	mm	0.5	0.5	0.5	0.5	0.5
5. Max. rotation inertia (Bronze)	$kg.m^2$	0.2924	0.7434	1.5333	0.3655	0.7554
Max. rotation inertia (SS304)	$kg.m^2$	0.2579	0.6557	1.3521	0.3224	0.6663

Shaft and bearing	Unit	200–150–315	200–150–400	200–150–500	250-200–315	250–200–400
1. Shaft diameter (at impeller)	mm	53	53	53	53	53
2. Shaft diameter (at coupling)	mm	48	48	48	48	48
3. Bearing center distance	mm	258	258	258	258	258
4. The 1st critical rotation speed	RPM	5.01×10^4	4.45×10^2	4.08×10^2	4.74×10^4	4.43×10^4
5. Bearing type (drive end)		6313ZZ (65x140x33)				
6. Bearing type (pump head end)		6313ZZ (65x140x33)				

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Mechanical seal	Unit	200–150–315	200–150–400	200–150–500	250-200–315	250–200–400
1. Material of mechanical seal		Carbon / ceramic / fluorine rubber (dynamic / static ring / rubber)				
2. Specification of mechanical seal	mm	60				

Operation limits	Unit	200–150–315	200–150–400	200–150–500	250-200–315	250–200–400
1. Max. operating pressure	Bar	16	16	16	16	16
2. Max. water flow pressure	Bar	24	24	24	24	24
3. Max. intake water pressure	Bar	2	7	4.5	2	7
4. Service life of bearing (calculated)	Hours	28588	28676	21559	27689	23129
5. Max. temperature of mechanical seal	Deg C	100	100	100	100	100
6. Max. speed (drive end)	RPM	2350	2350	2350	1800	1800

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