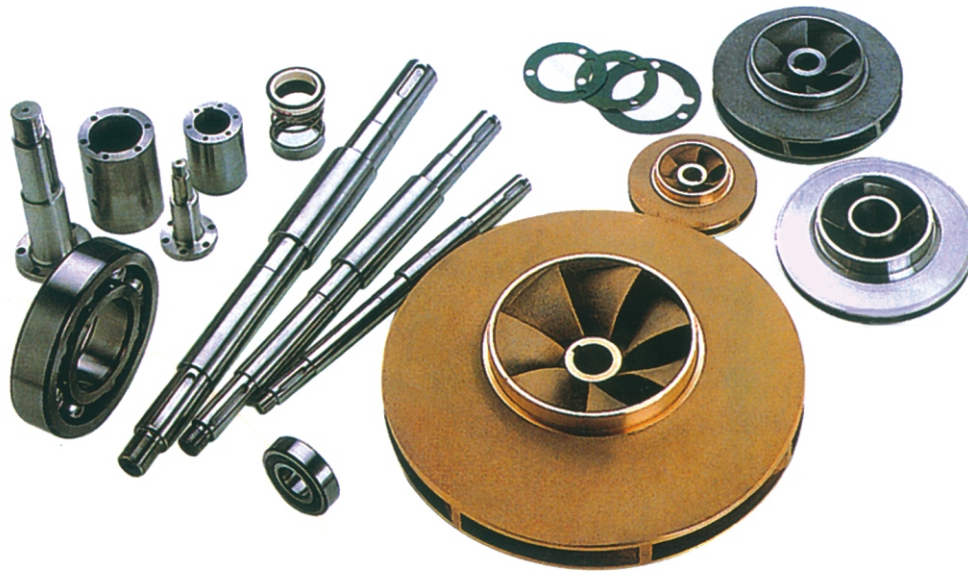


*easyflow*

*PAZ Close Coupled Centrifugal Pump*





Design

PAZ single stage close coupled centrifugal pump is supplied complete with a standard pump with performance and key dimensions in accordance with DIN24255 standard, for horizontal installation. The back-pull-out construction allows the pump to be disassembled without disturbing the suction and discharge pipework.

Electric motor

The pump is supplied complete with a standard flange or face mounted TEFC IP55 electric motor to IEC dimensions. NEMA, Eexd, Ex(N), single phase and Energy Efficient motors are readily available as options.

Operating data

Discharge flanges:  
 Flange standard:  
 Optional flanges:  
 Flowrate:  
 Total head  
 Max working pressure  
 Maximum temperature  
 Maximum temperature

32 mm to 150 mm  
 BS 4504 PN 16  
 ANSI 150 RF  
 Up to 550 m<sup>3</sup>/hr  
 Up to 150 meters  
 16 bar standard  
 100 deg C  
 -20 deg C

Material

Casing  
 Cast iron  
 Ductile iron  
 Impeller  
 Cast iron  
 bronze  
 Shaft  
 Stainless steel  
 Casing wear ring  
 Cast iron  
 bronze

Applications

- Water supply
- Cooling water
- Air conditioning
- Heating circulation
- Industrial fluids

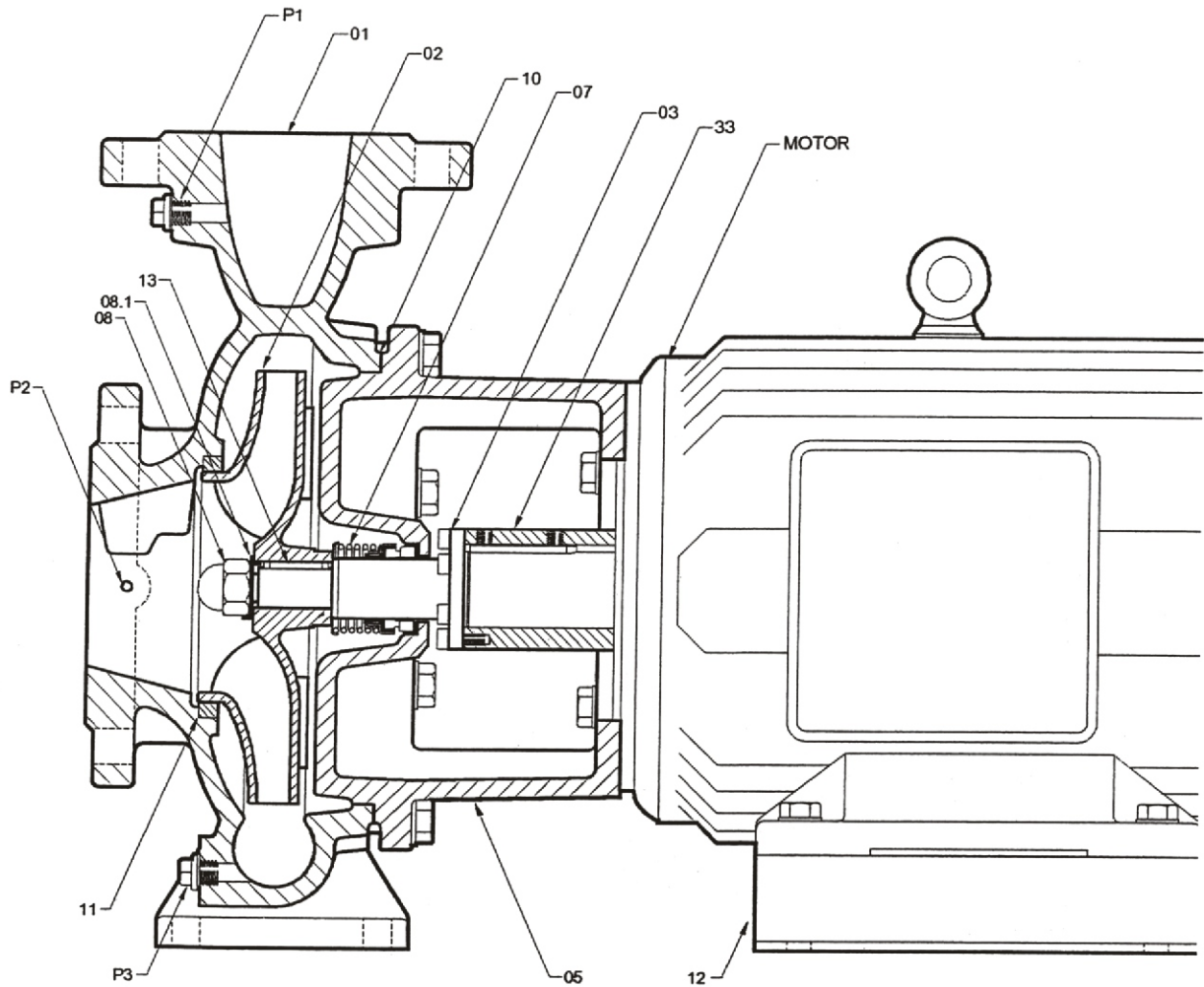
Shaft seal

Single carbon vv Ceramic mechanical seal with Nitrile elastomers as standard. Pumps can be fitted with a wide variety of single and double mechanical seals or packed gland as required.

Pump and motor combinations

Only the common pump and motor combinations for 50 hz operation on water are included within this publication. For dimensions and performance of other pump and motor combinations,

Typical cross section

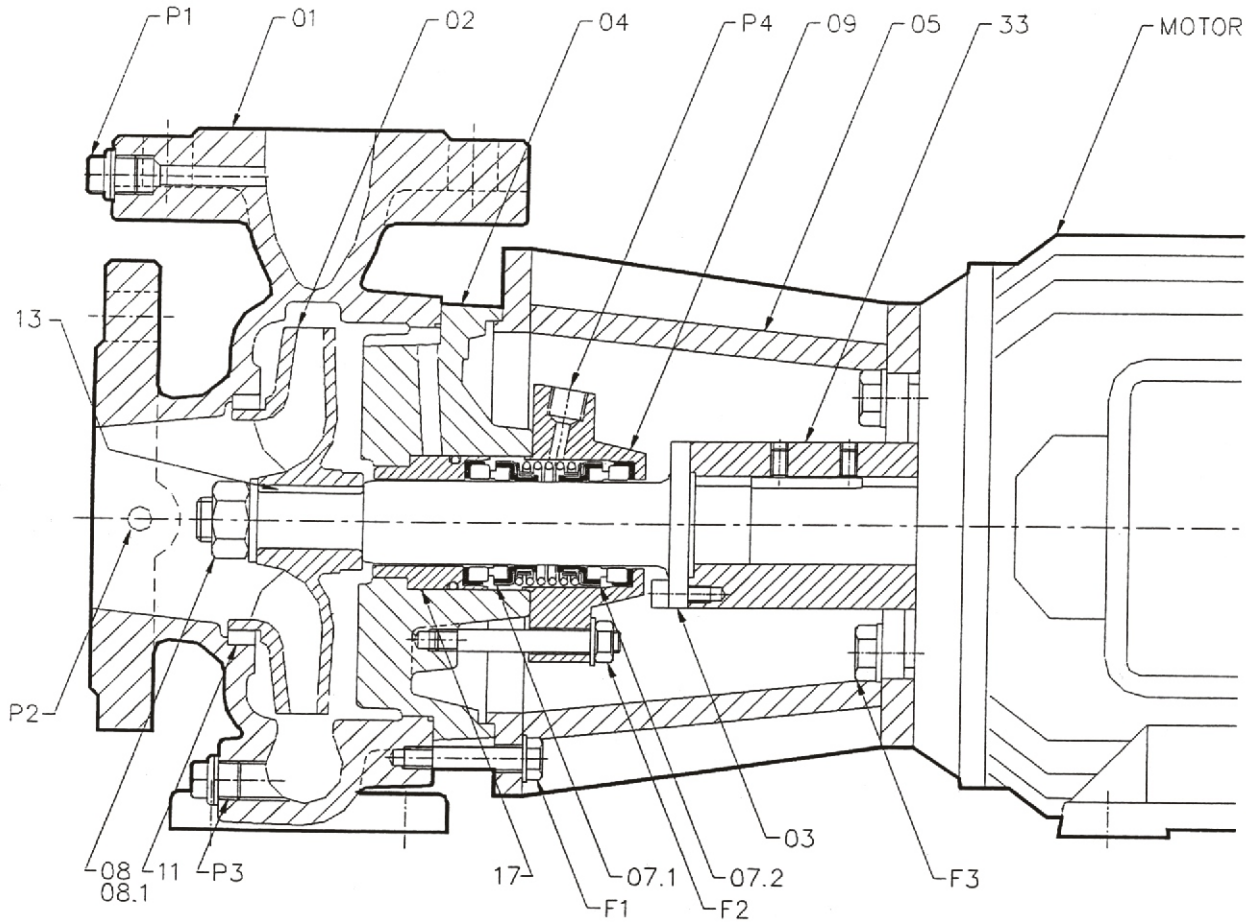


Item ref	Part	Code C
01	Casing	Cast iron
02	Impeller	Cast iron
03	Stubshaft	Stainless steel
05	Adaptor	Cast iron
07	Mechanical seal	Carbon/ceramic
08	Impeller nut	Steel
08.1	Impeller washer	Steel
10	Casing gasket	Gasket paper
11	Casing wear ring	Cast iron
12	Support foot	Mild steel
13	Impeller key	Key steel
33	Motor sleeve	Steel
P1	Vent/gauge plug	Steel
P2	Suction gauge plug	Steel
P3	Drain plug	Steel

Code B
Cast iron
Cast iron
LG4 Bronze
Stainless steel
Cast iron
Carbon/ceramic
Bronze
Bronze
Gasket paper
Cast iron
Mild steel
Key steel
Steel
Steel
Steel
Steel

For power 5.5kw and below

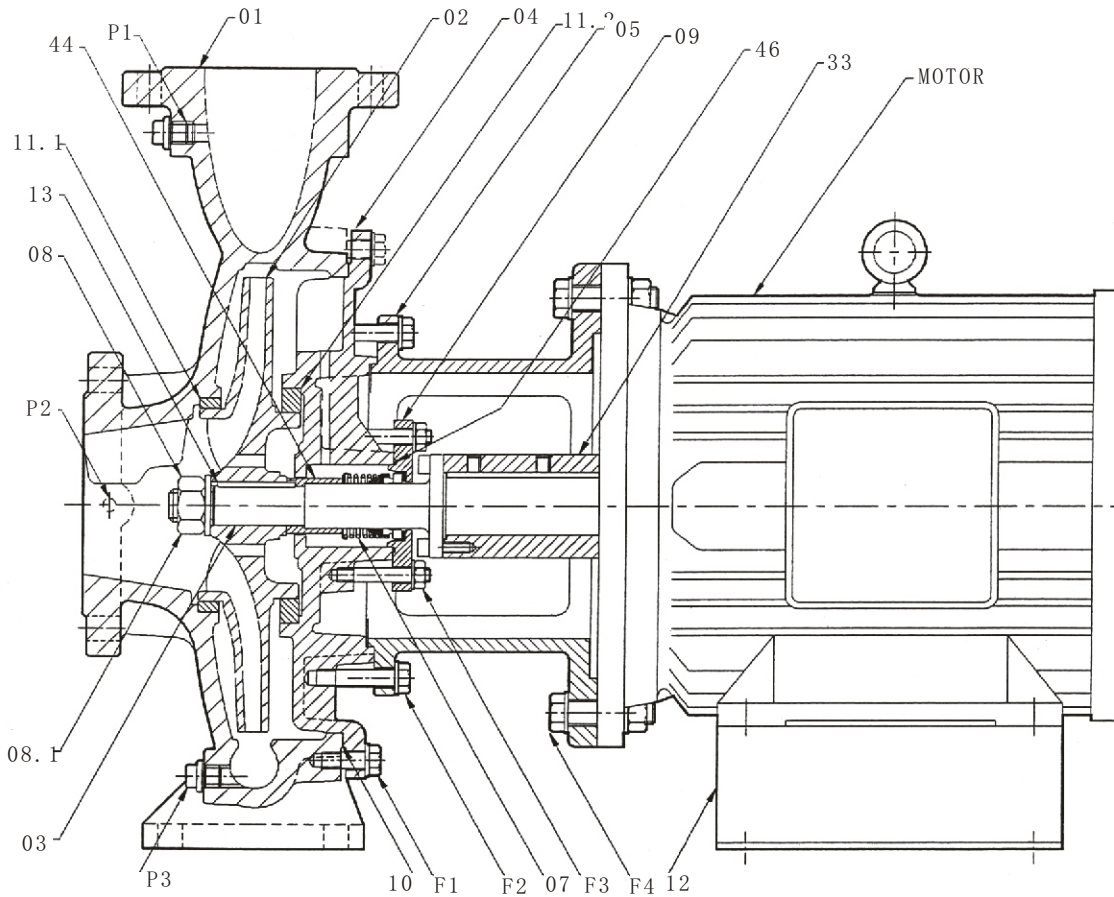
Typical cross section



Em ref	Part	Code C	Code B
01	Casing	Cast iron	Cast iron
02	Impeller	Cast iron	LG4 Bronze
03	Stubshaft	Stainless steel	Stainless steel
04	Backcover	Cast iron	Cast iron
05	Adaptor	Mild steel	Mild steel
07.1	Primary mechanical seal	SiC/SiC/Viton	SiC/SiC/Viton
07.2	Secondary mechanical seal	Carbon/ceramic	Carbon/ceramic
08	Impeller nut	Steel	Bronze
08.1	Impeller washer	Steel	Bronze
09	Glandplate	Stainless steel	Stainless steel
10	Casing gasket	Gasket paper	Gasket paper
11	Casing wear ring	Cast iron	Cast iron
13	Impeller key	Key steel	Key steel
17	Primary seal carrier	Stainless steel	Stainless steel
33	Motor sleeve	Steel	Steel
P1	Vent/gauge plug	Steel	Steel
P2	Suction gauge plug	Steel	Steel
P3	Drain plug	Steel	Steel
P4	Seal flush connections		

For power 7.5kw to 15kw

Typical cross section



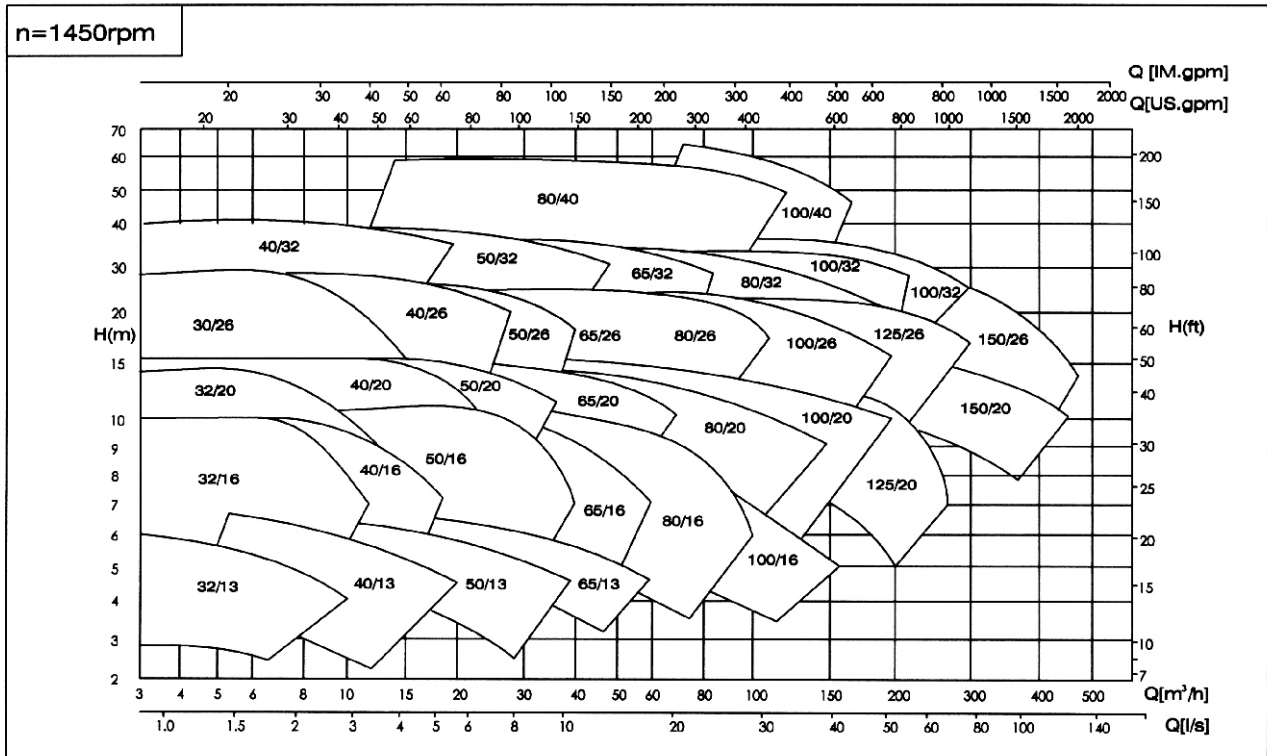
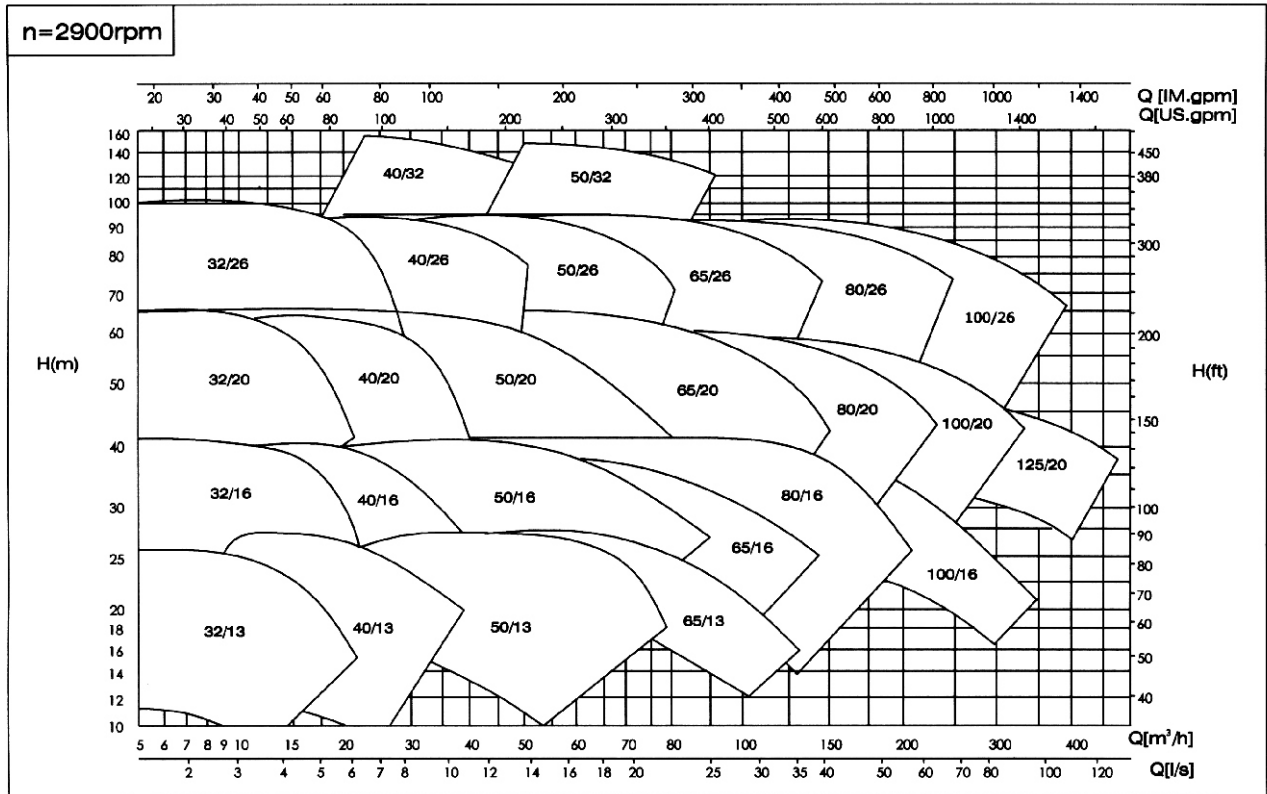
Item ref	Part	Code C
01	Casing	Cast iron
02	Impeller	Cast iron
03	Stubshaft	Stainless steel
04	Backcover	Cast iron
05	Adapter	Cast iron
07	Mechanical seal	Carbon/ceramic
08	Impeller nut	Steel
08.1	Impeller washer	Steel
09	Glandplate	Cast iron
10	Casing gasket	Gasket paper
11.1	Casing wear ring	Cast iron
11.2	Backcover wear ring	Cast iron
12	Support foot	Mild steel
13	Impeller key	Key steel
33	Motor sleeve	Steel
44	Spacer sleeve	Stainless steel
46	Glandplate O ring	Nitrile
P1	Vent/gauge plug	Steel
P2	Suction gauge plug	Steel
P3	Drain plug	Steel
F1	Casing bolts	Steel
F2	Backcover bolts	Steel
F3	Gland studs	Steel
F4	Motor flange bolts	Steel

Code B
Cast iron
LG4 Bronze
Stainless steel
Cast iron
Cast iron
Carbon/ceramic
Bronze
Bronze
Cast iron
Gasket paper
Cast iron
Cast iron
Mild steel
Key steel
Steel
Stainless steel
Nitrile
Steel
Steel
Steel
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Steel
Steel

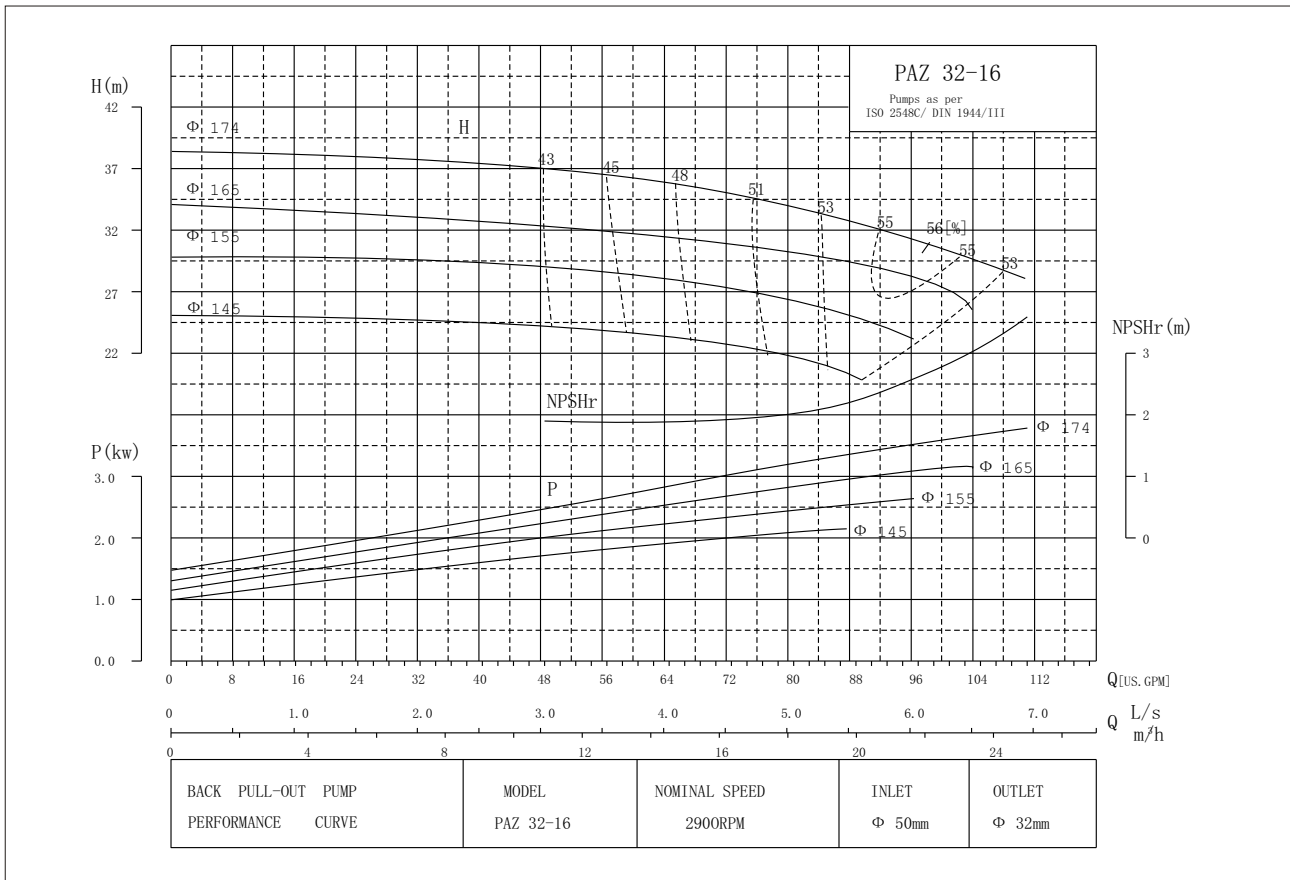
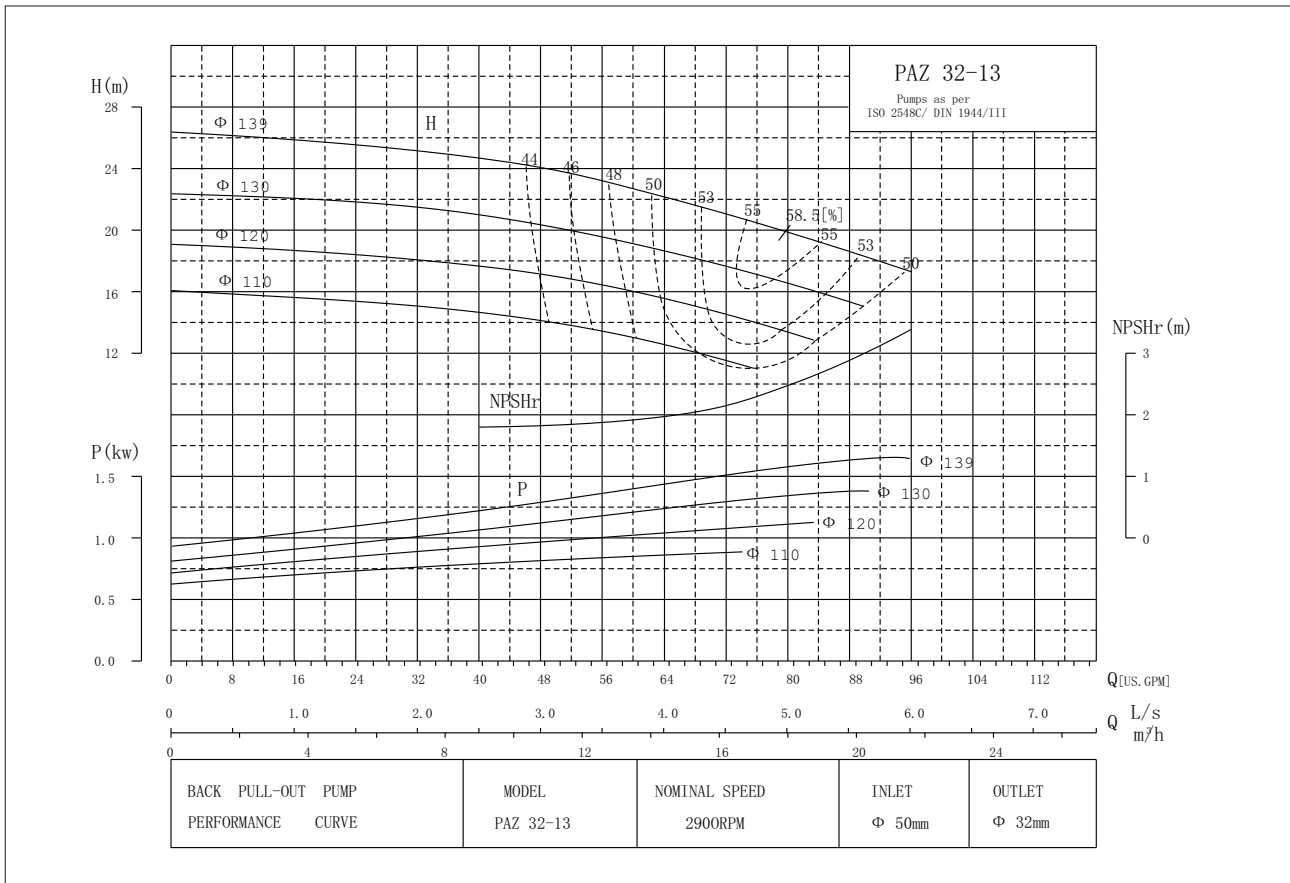
For power 18.5kw and above



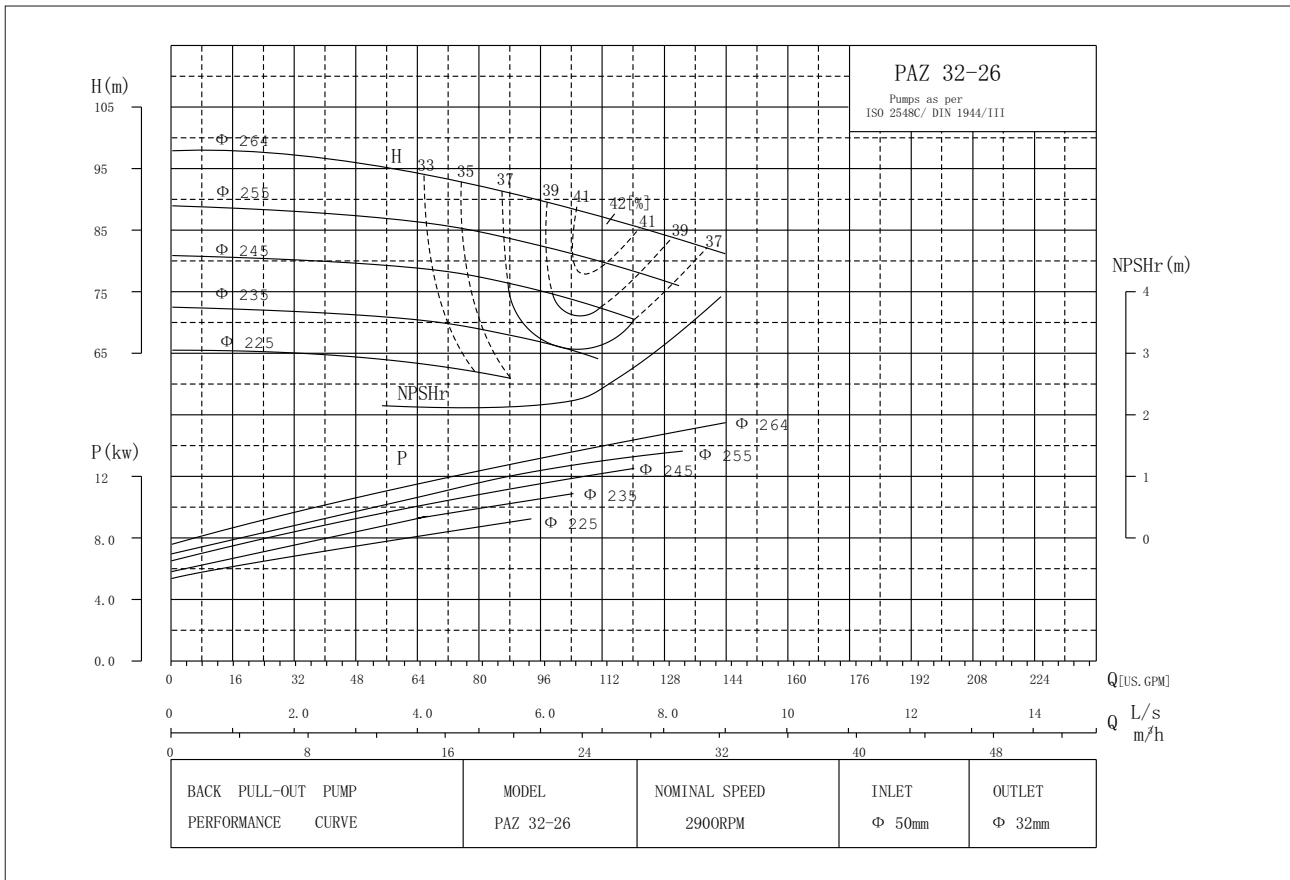
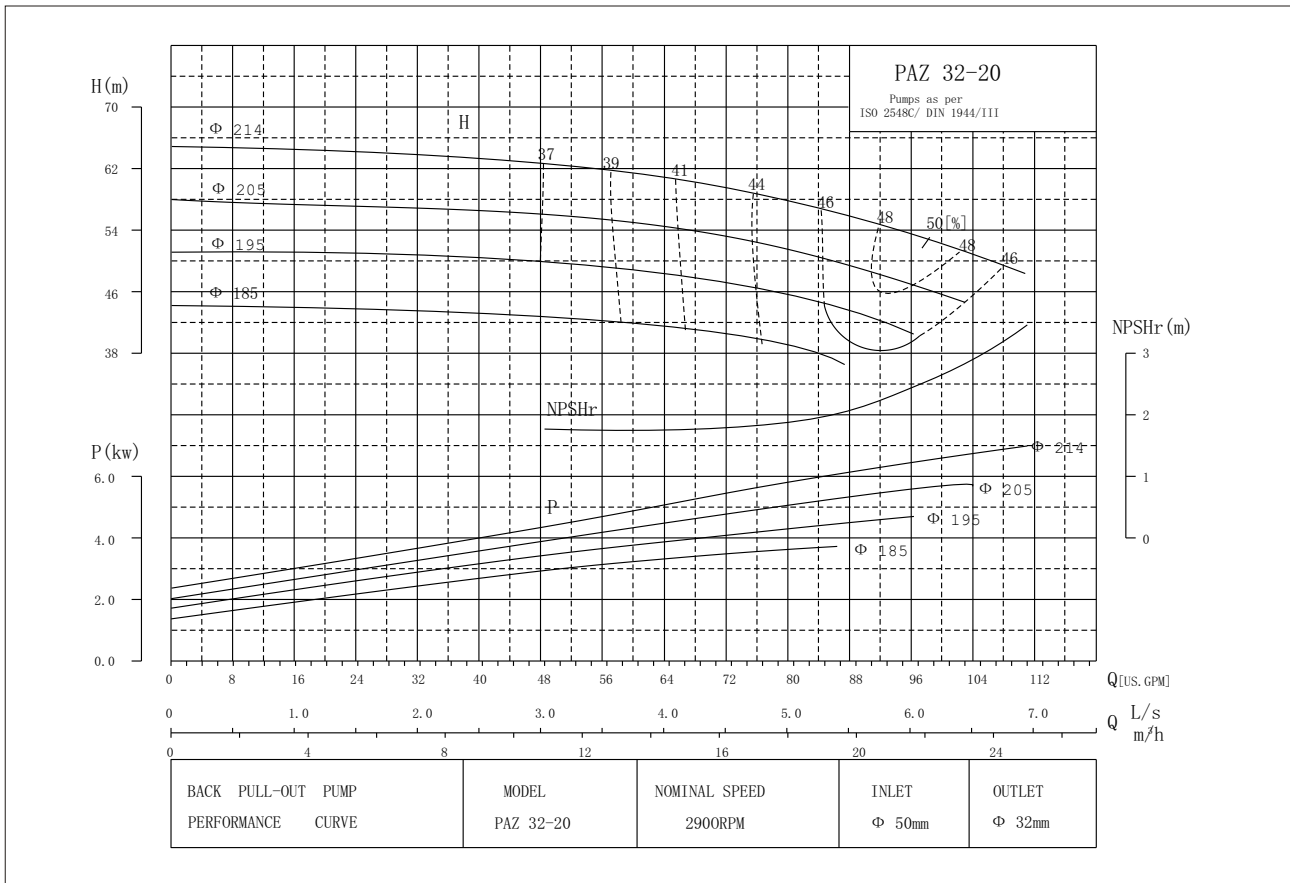
# Selection Charts



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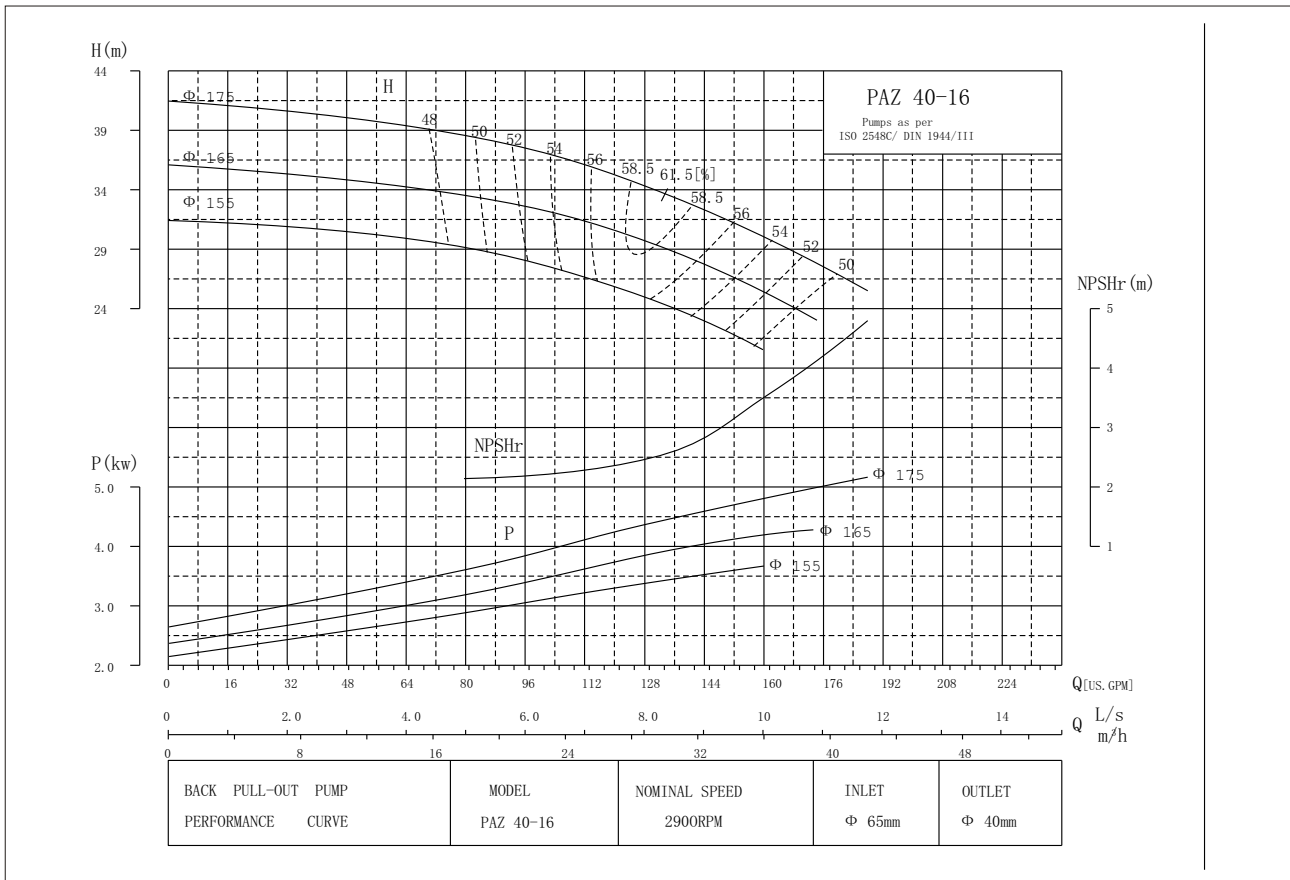
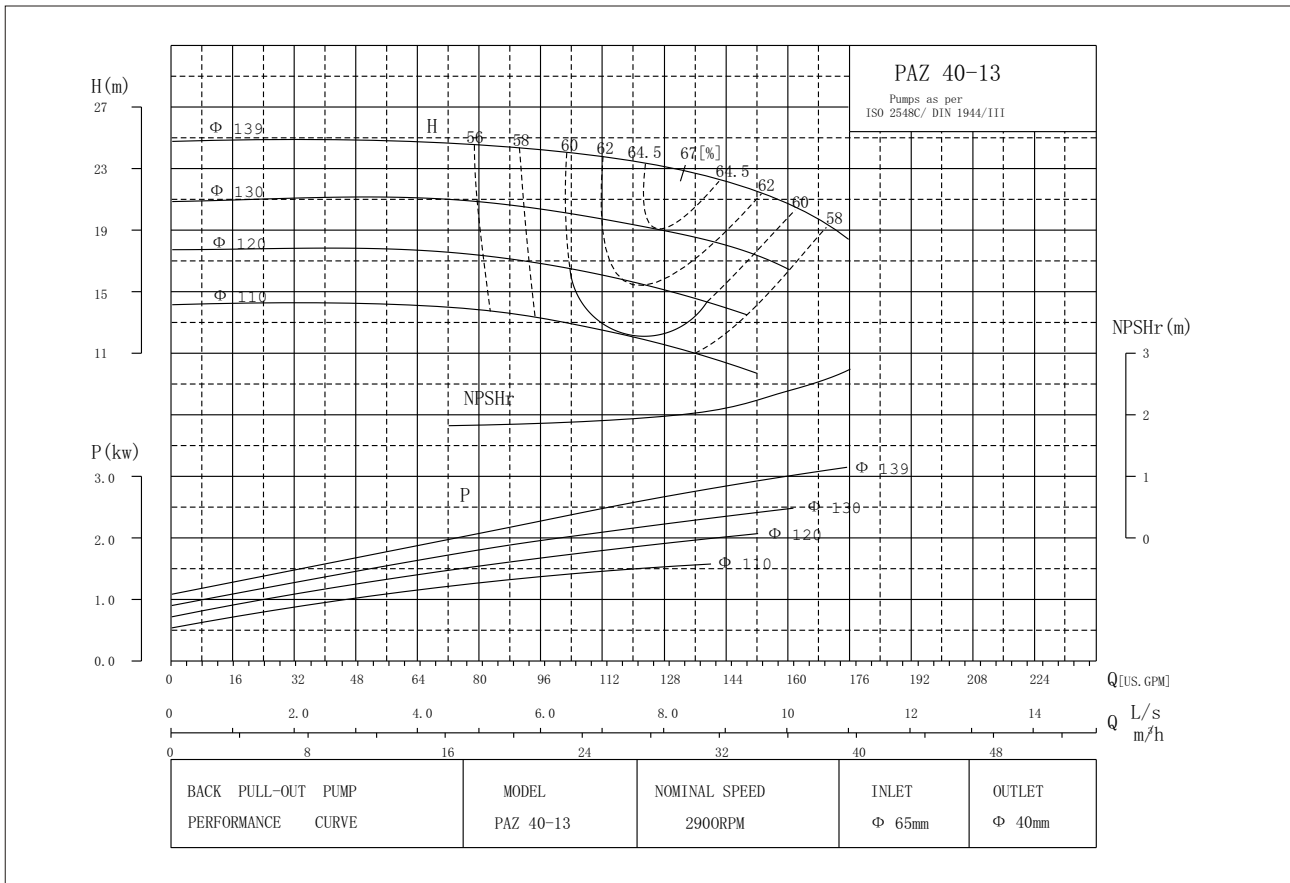


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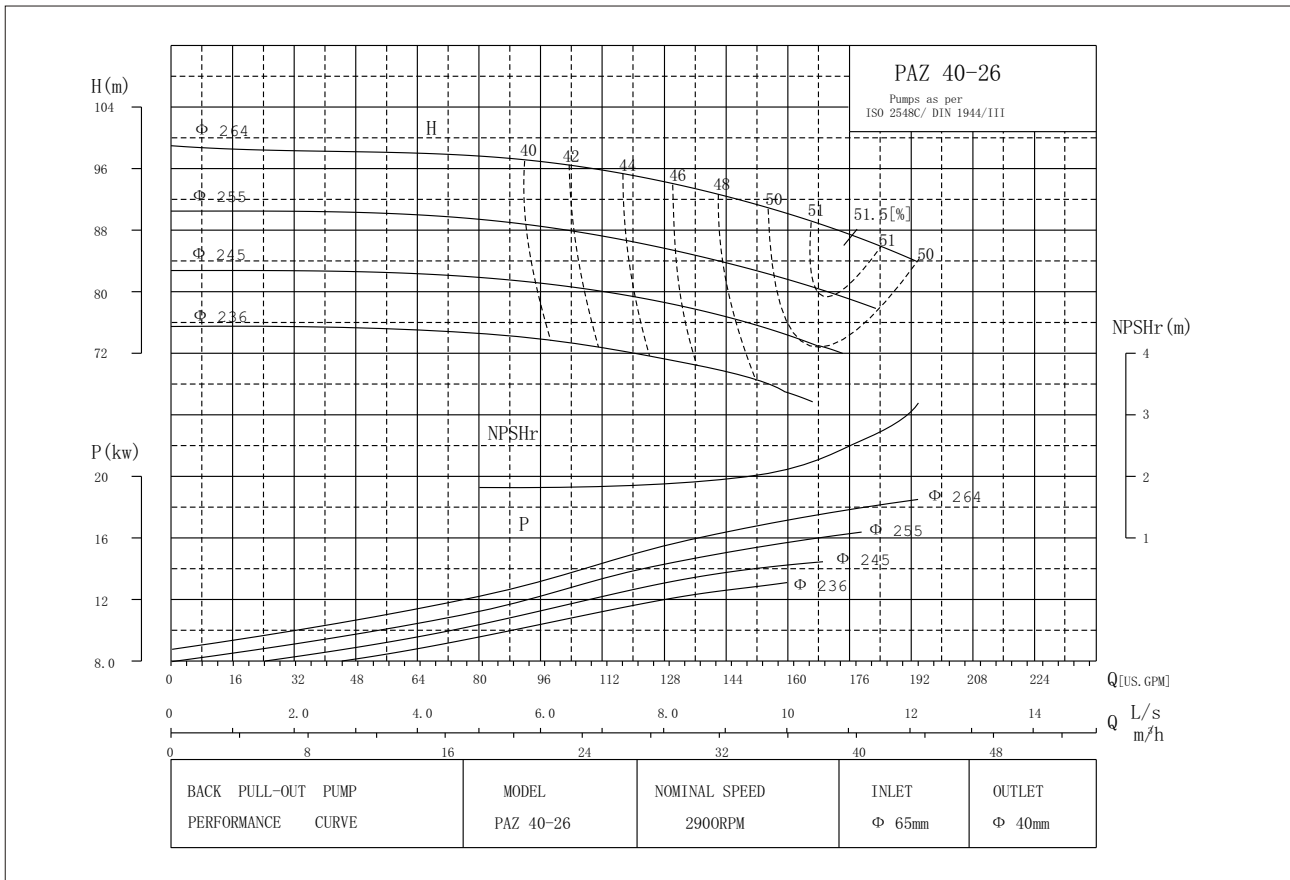
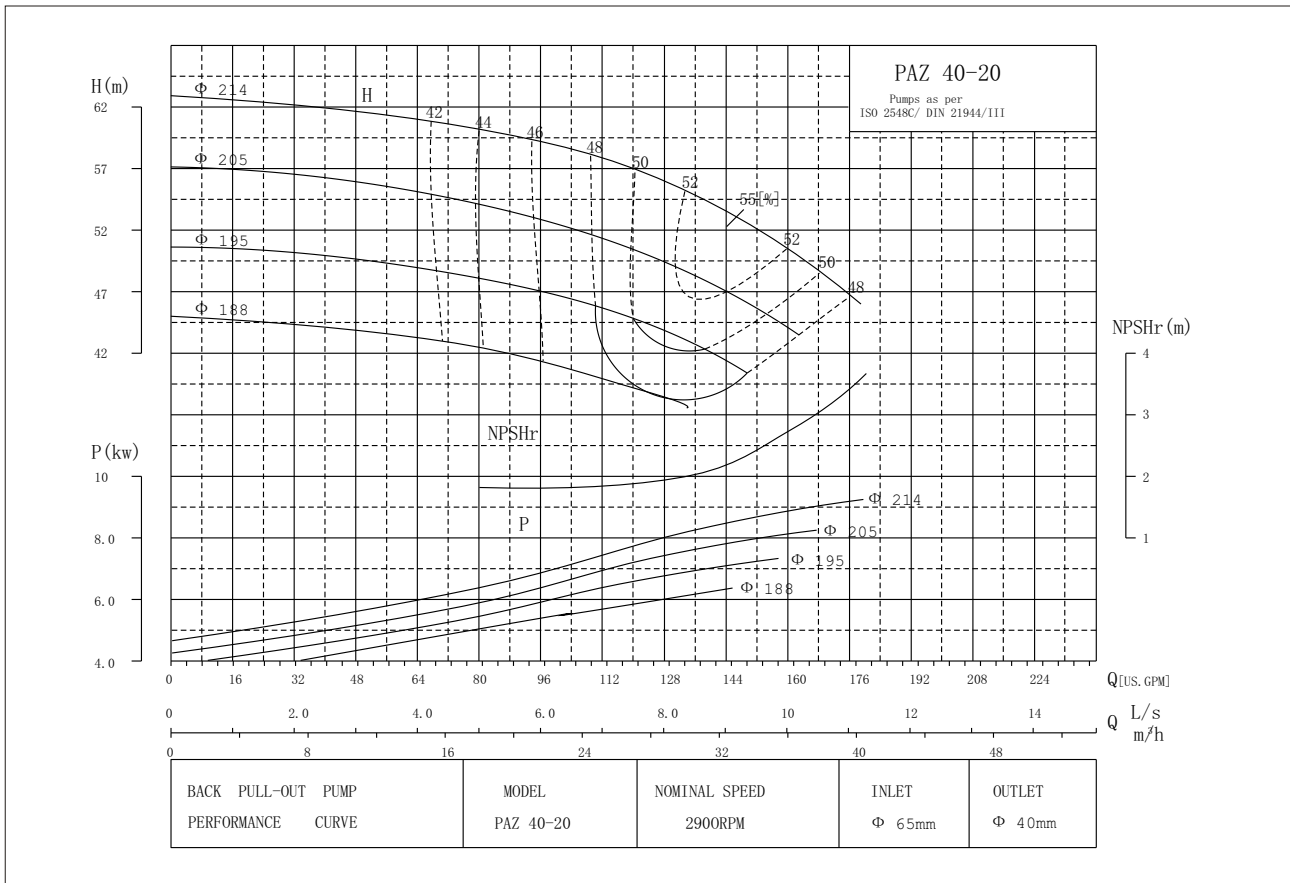




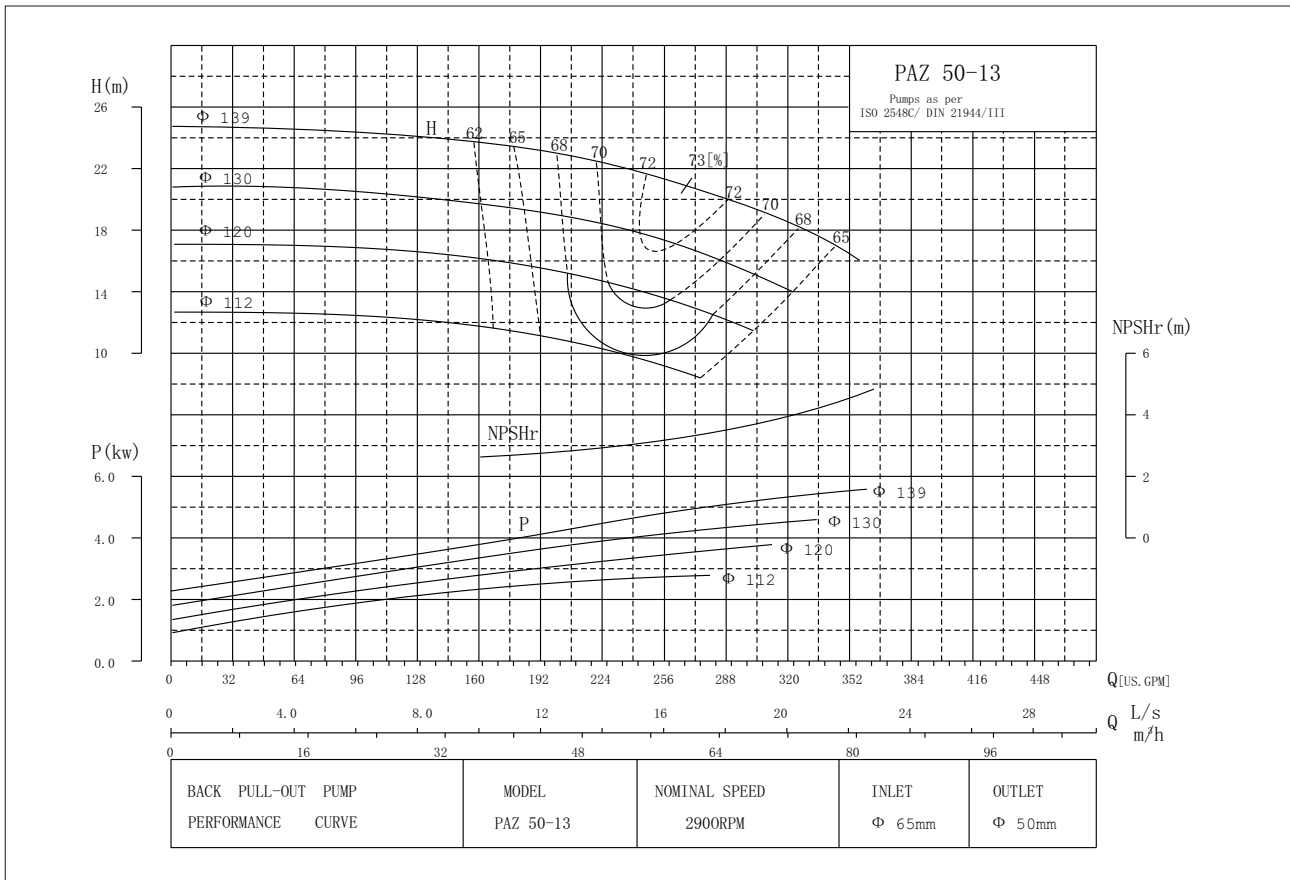
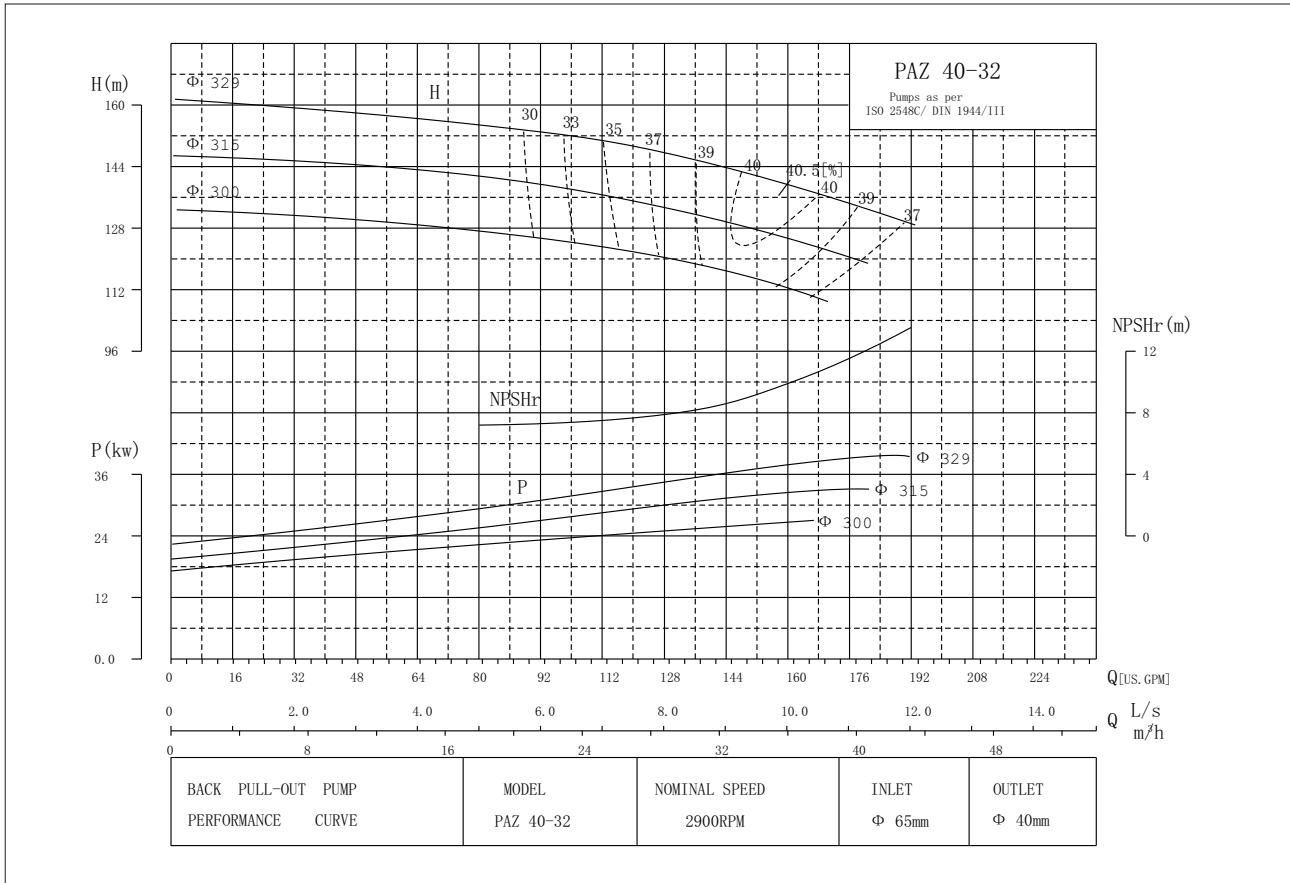
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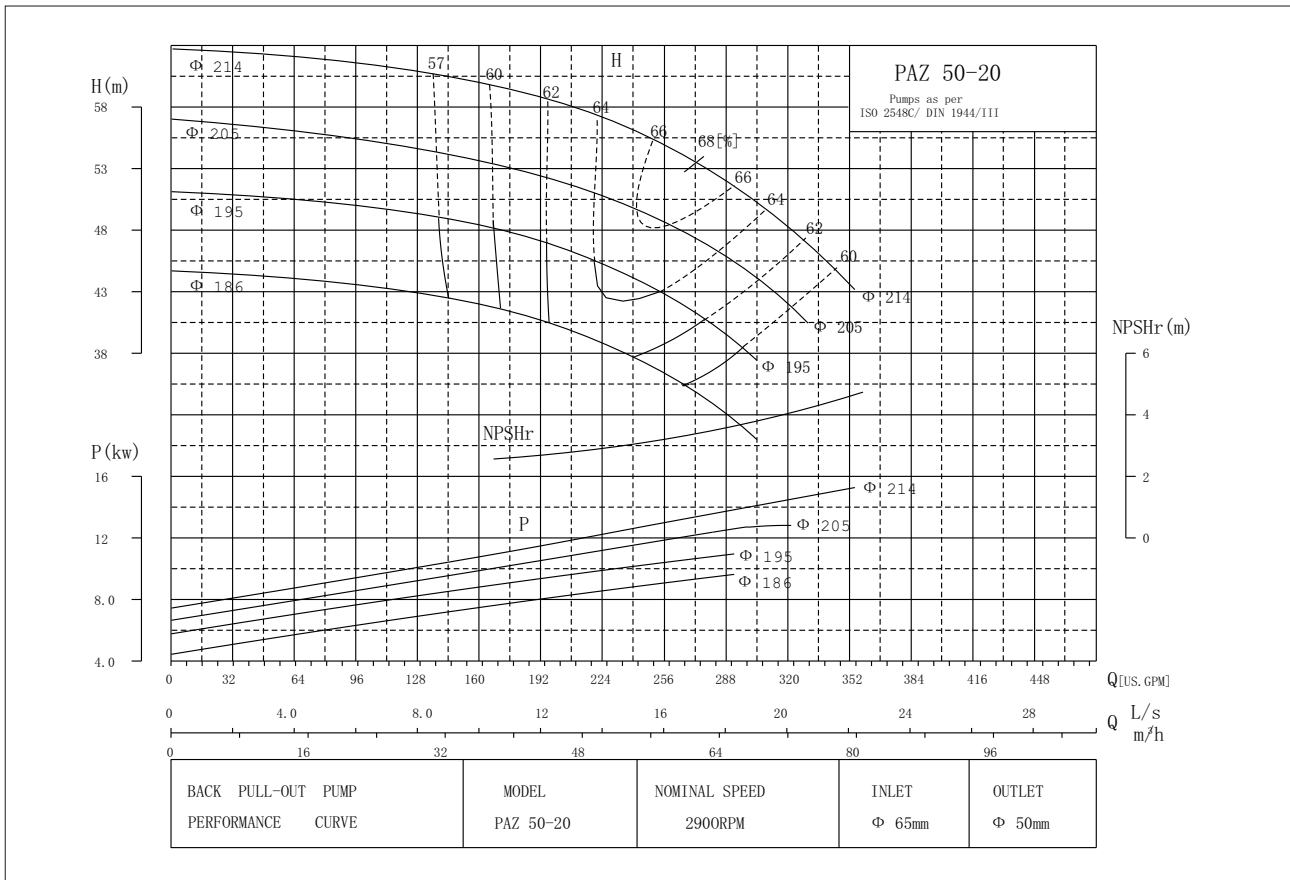
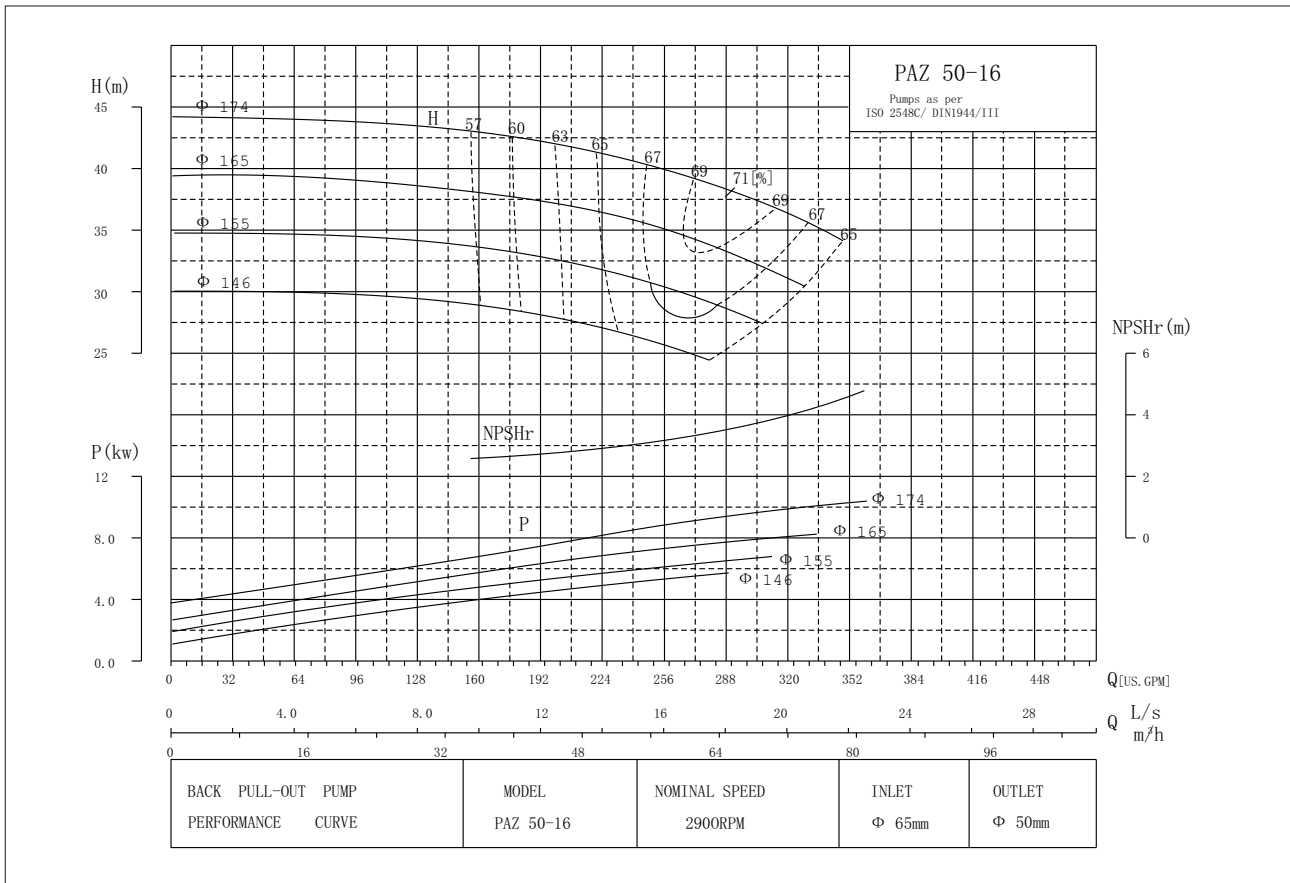
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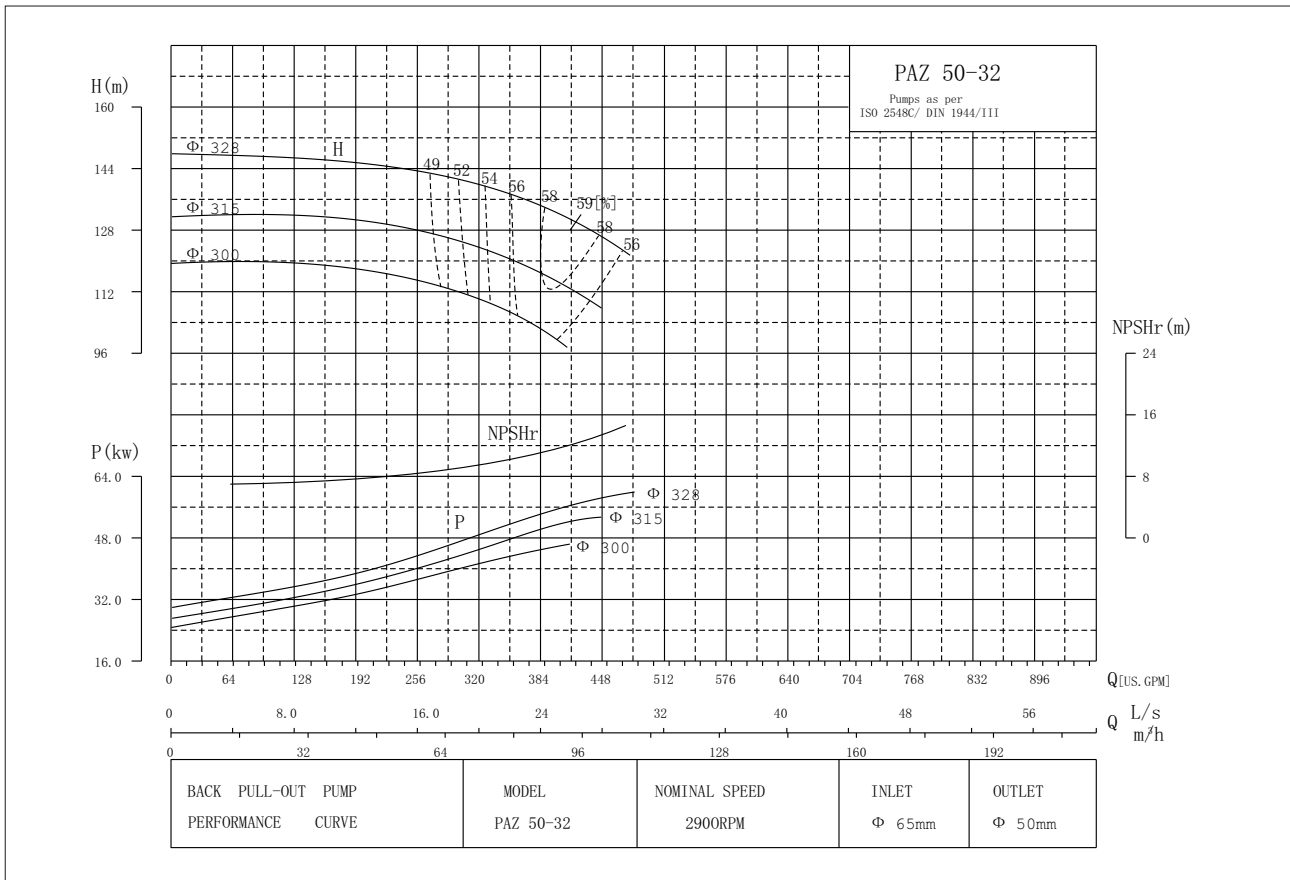
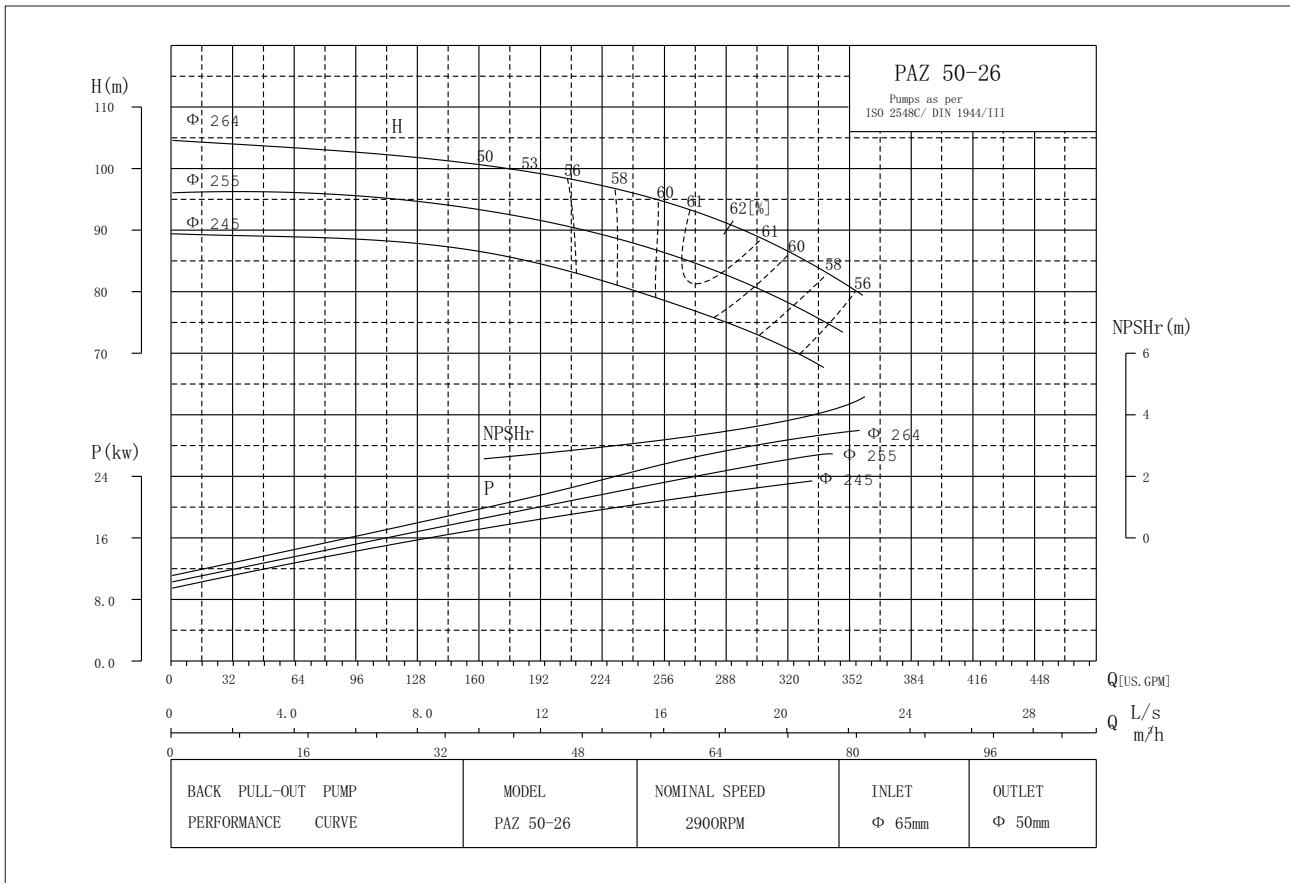
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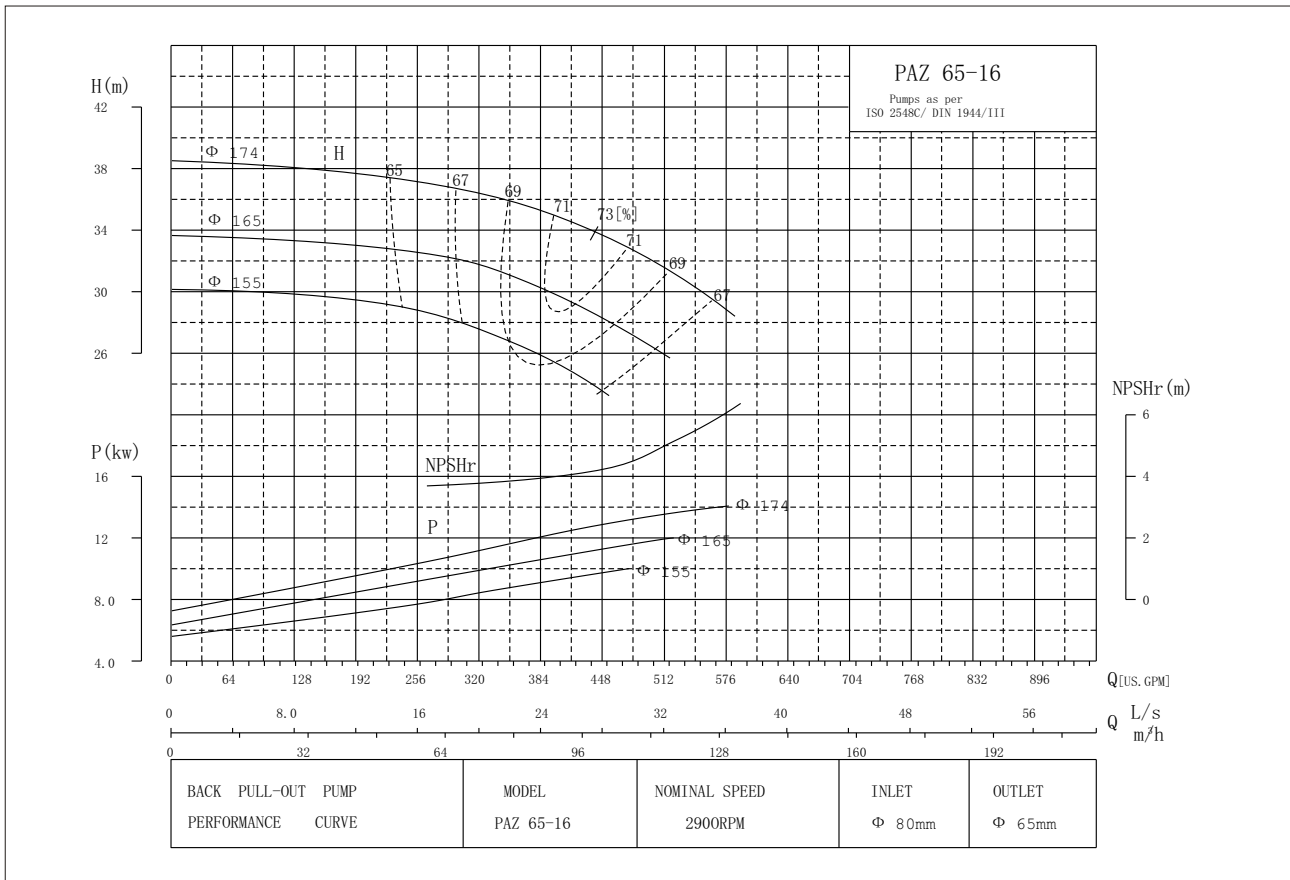
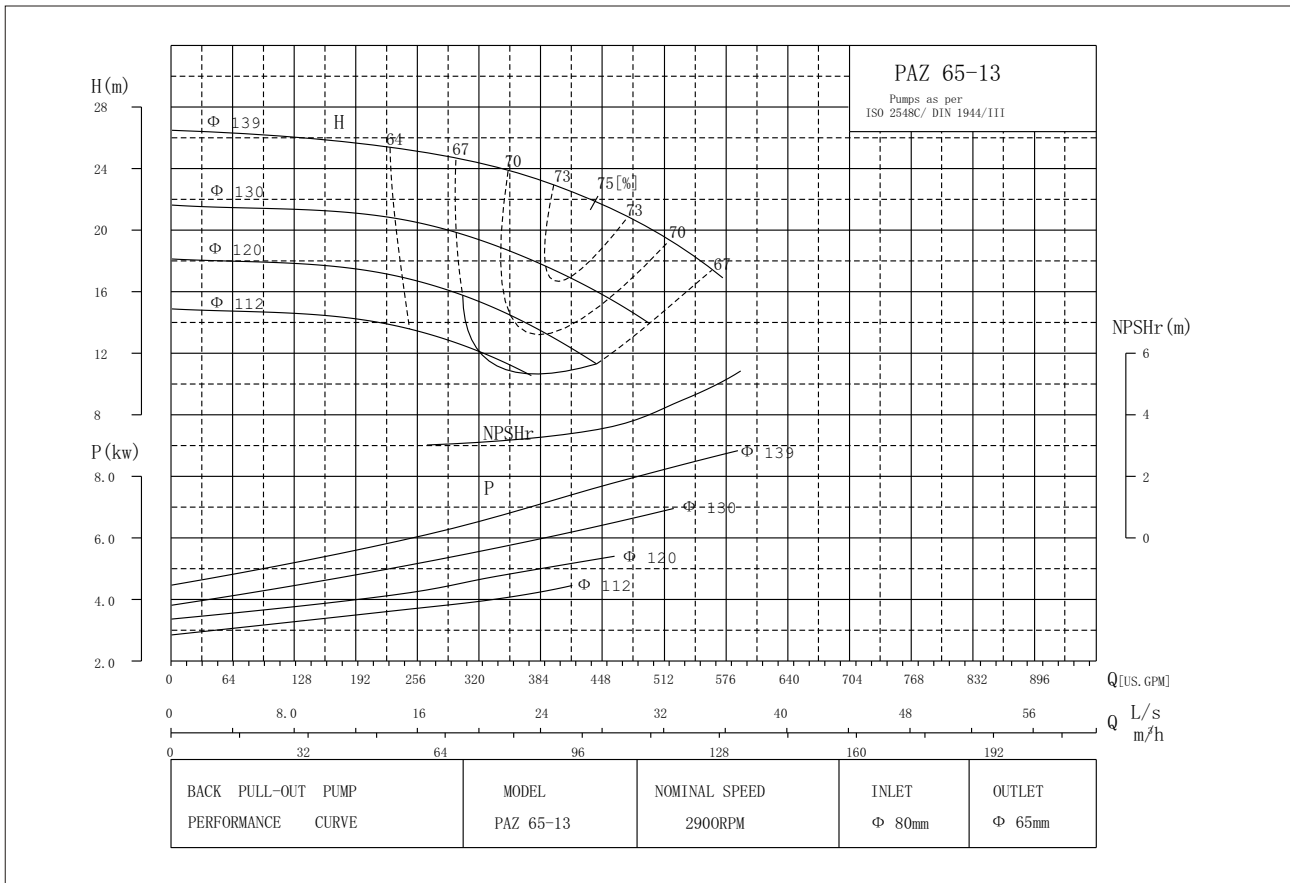


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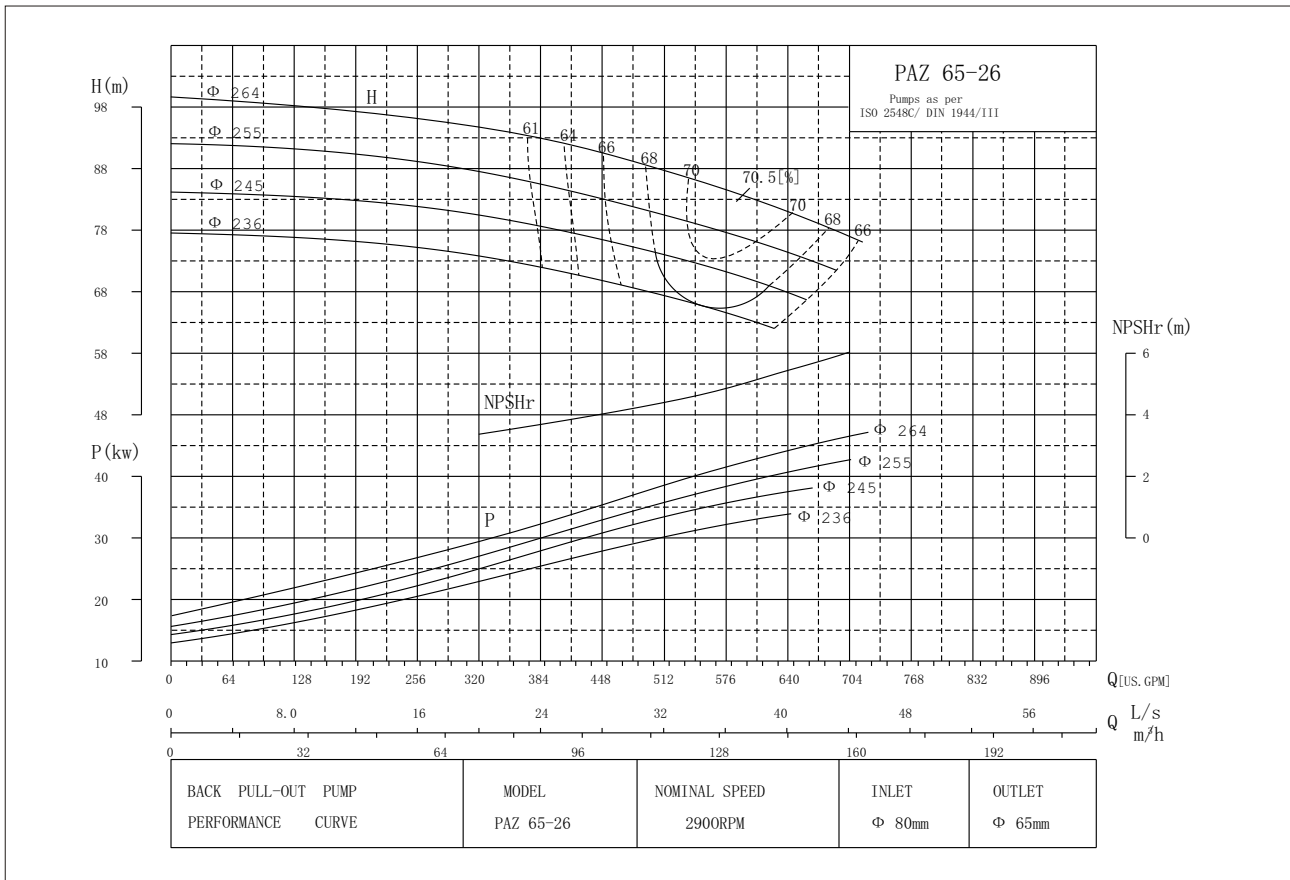
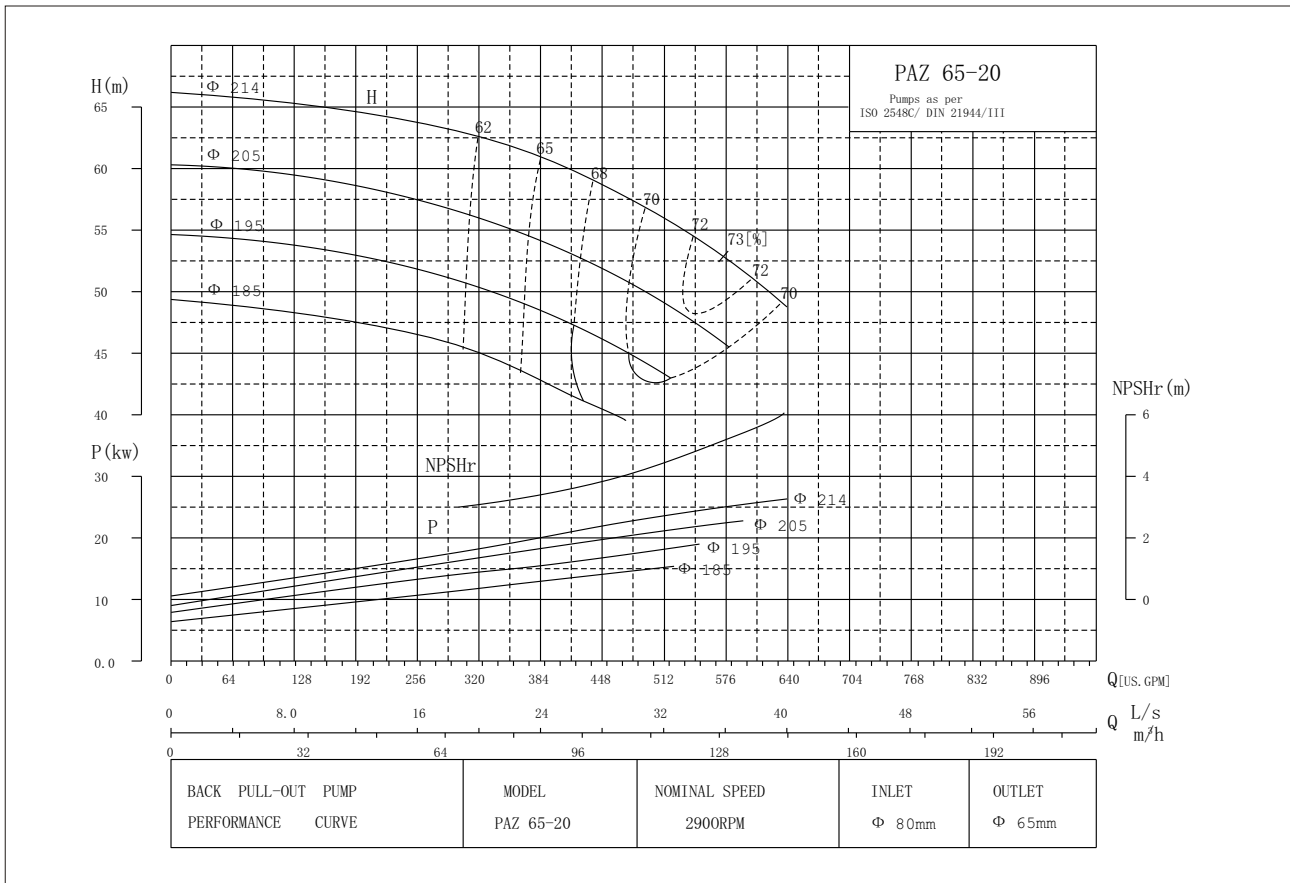




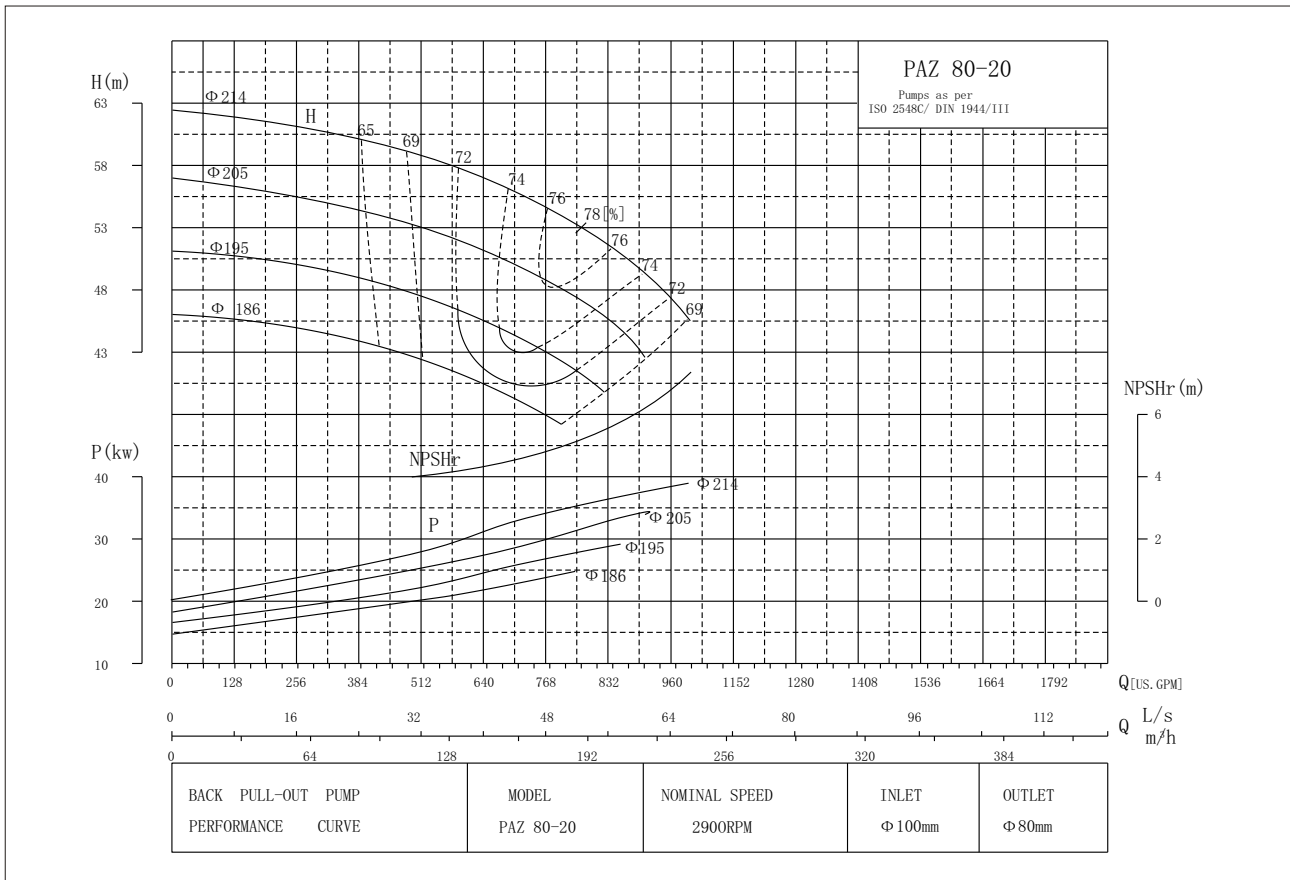
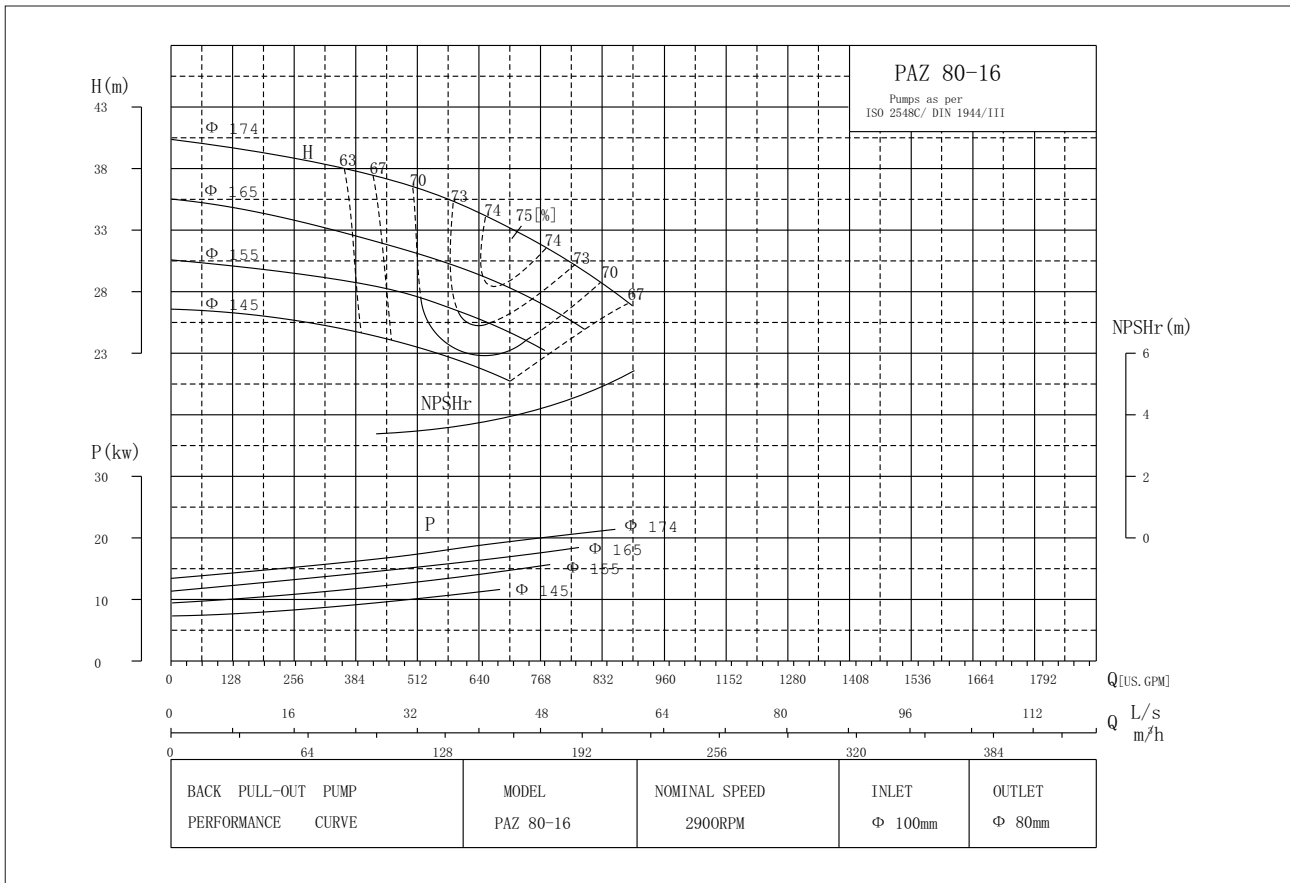
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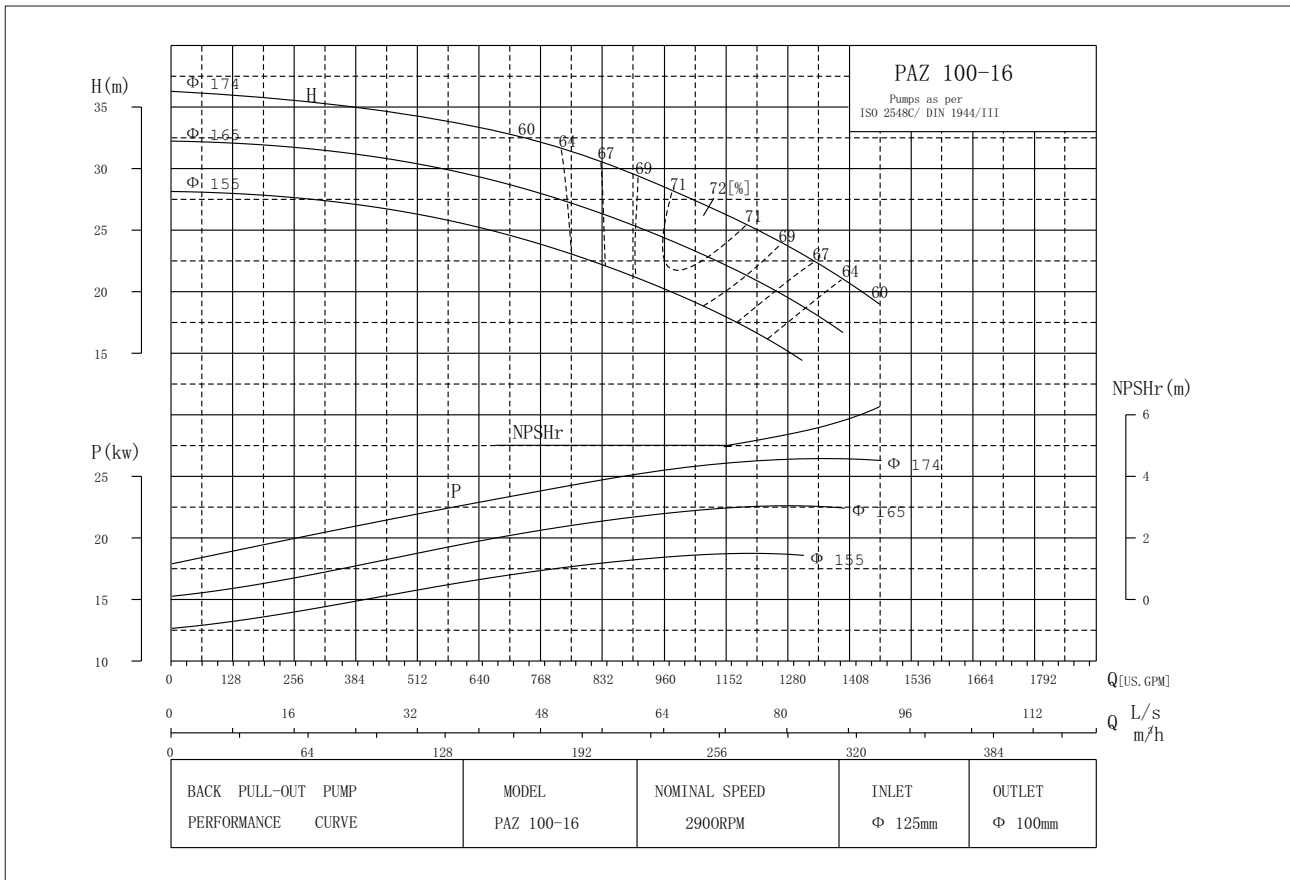
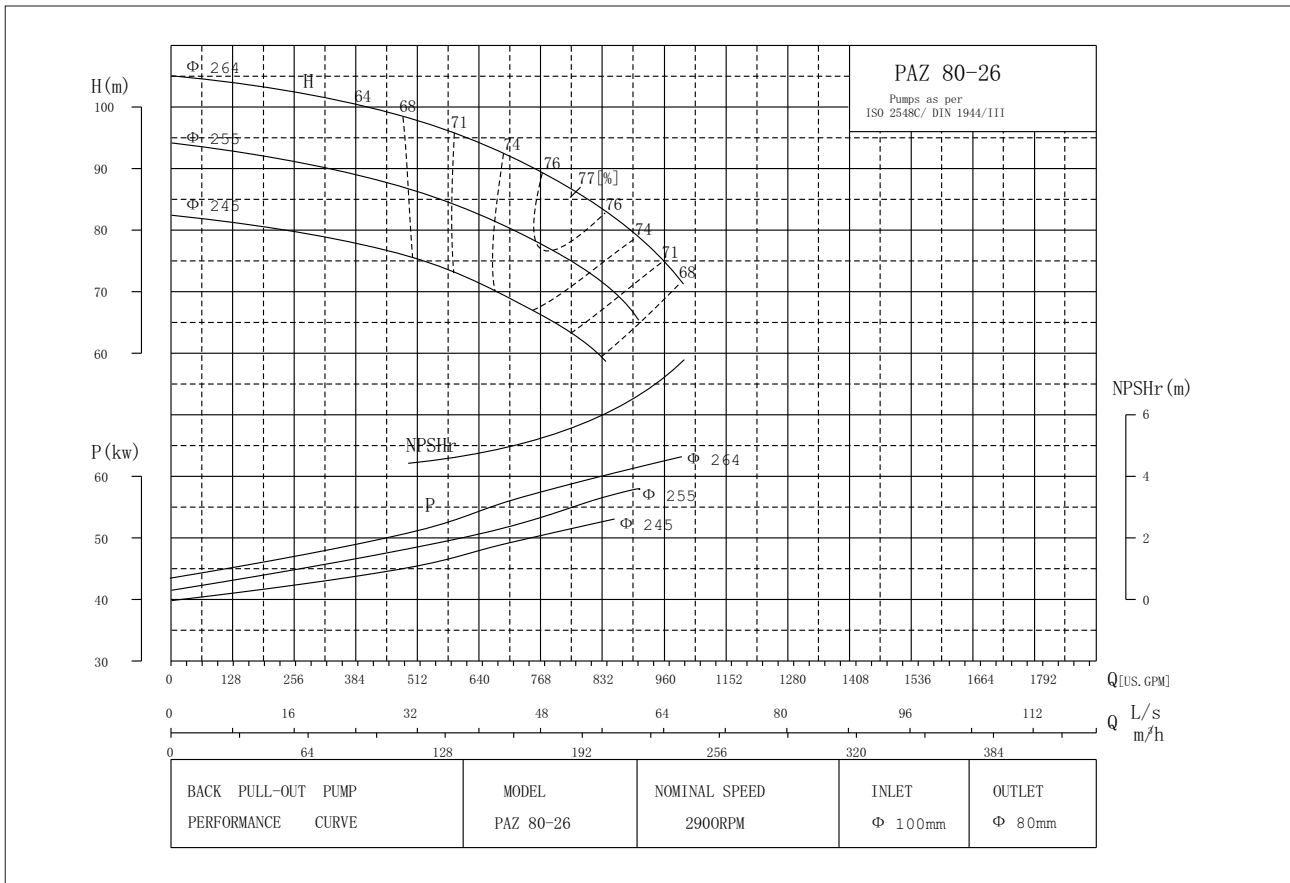
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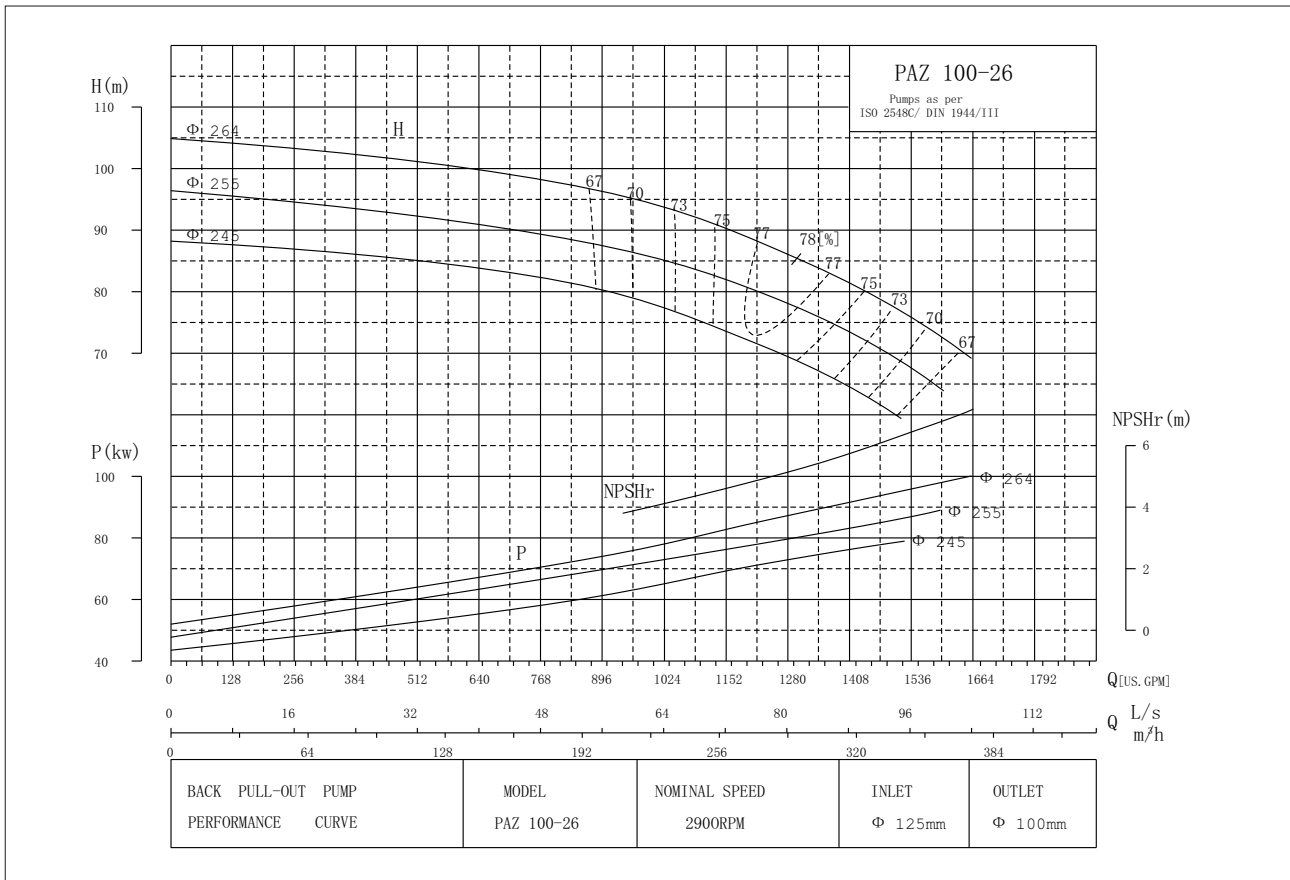
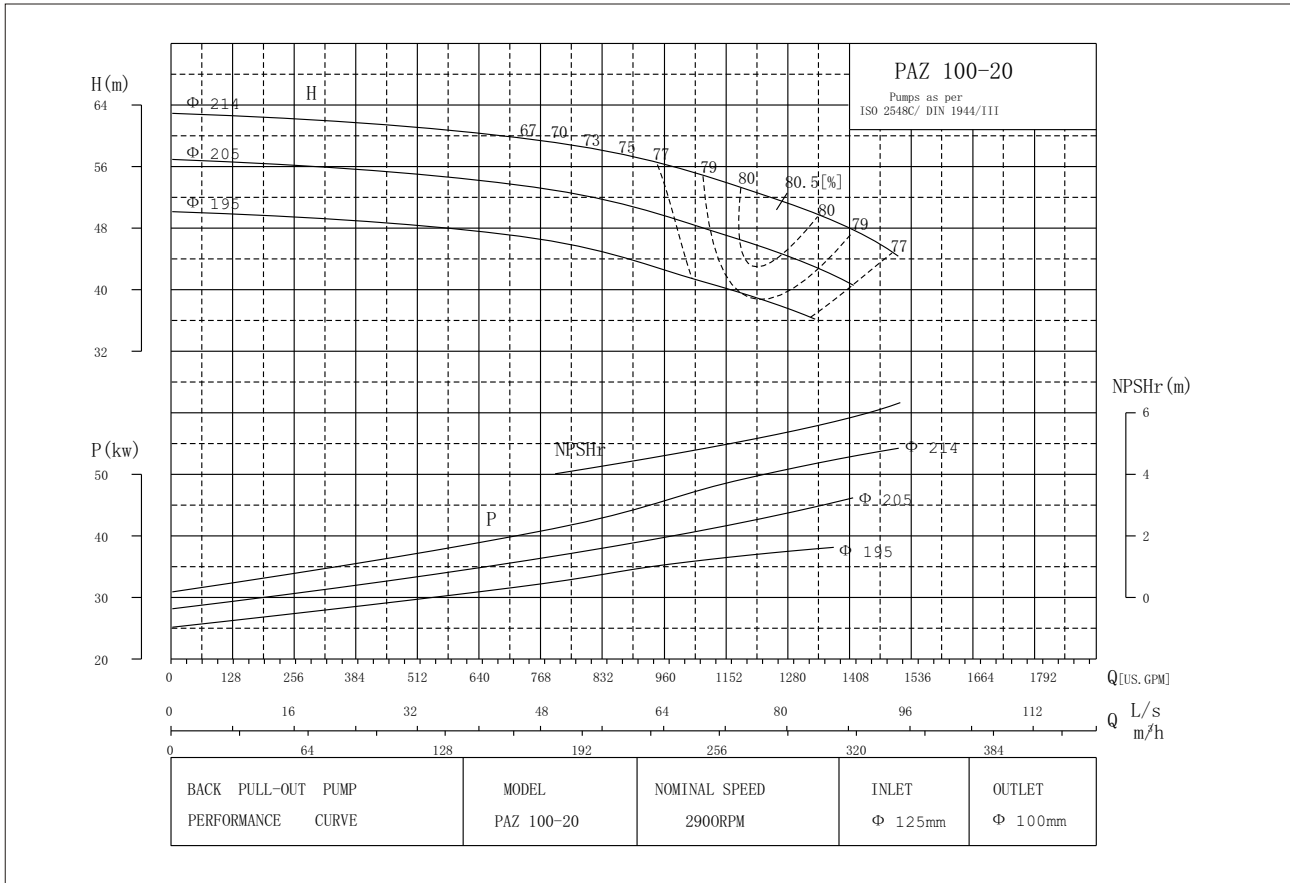
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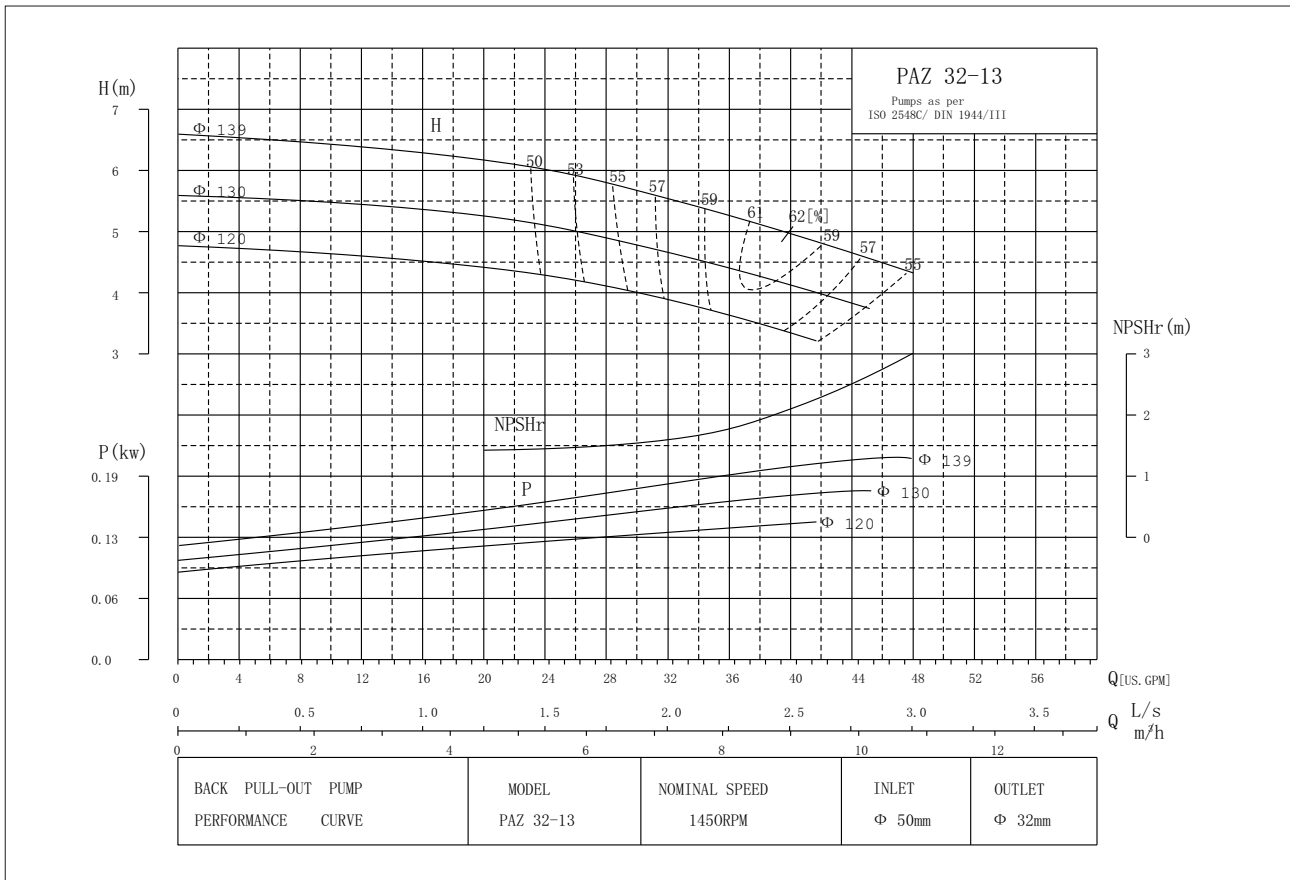
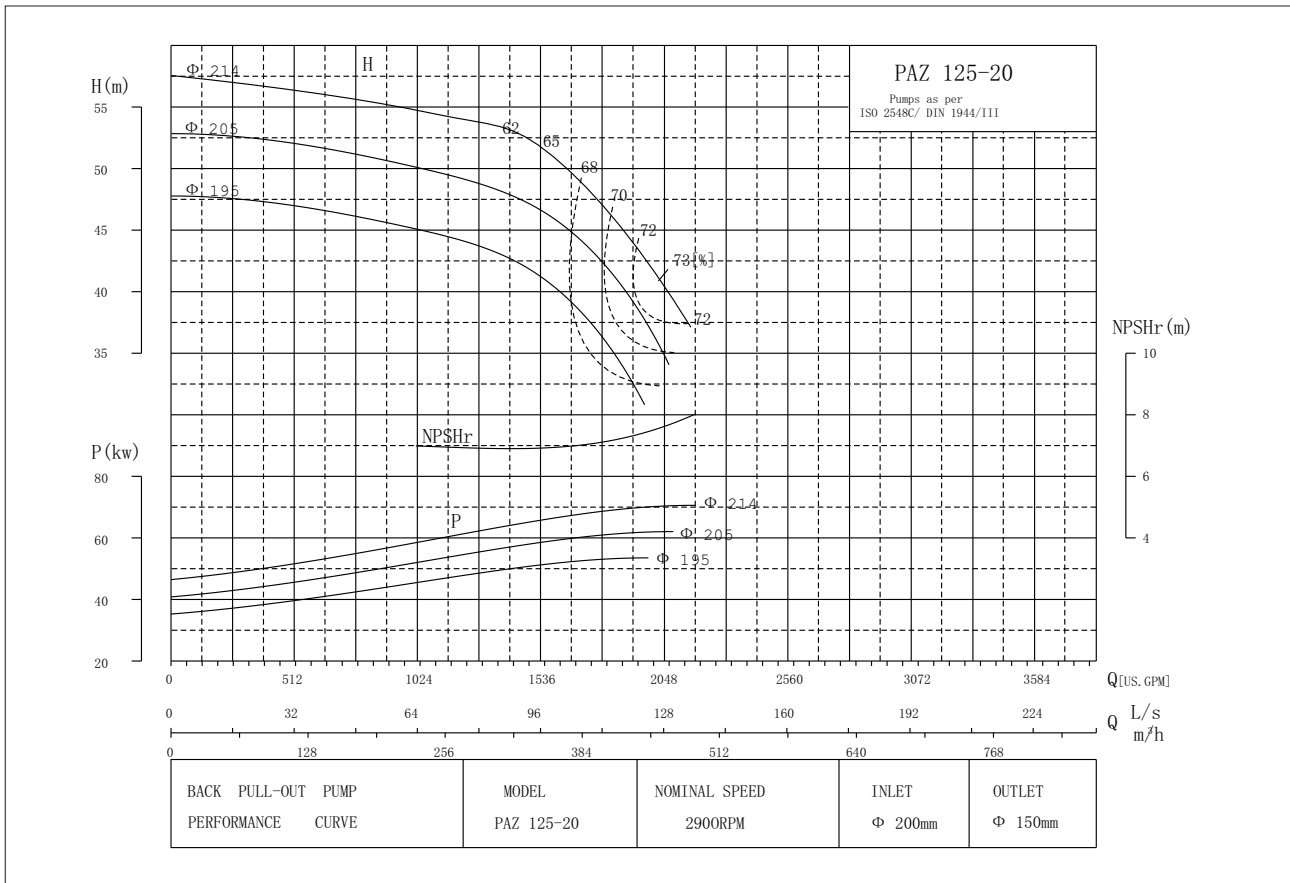


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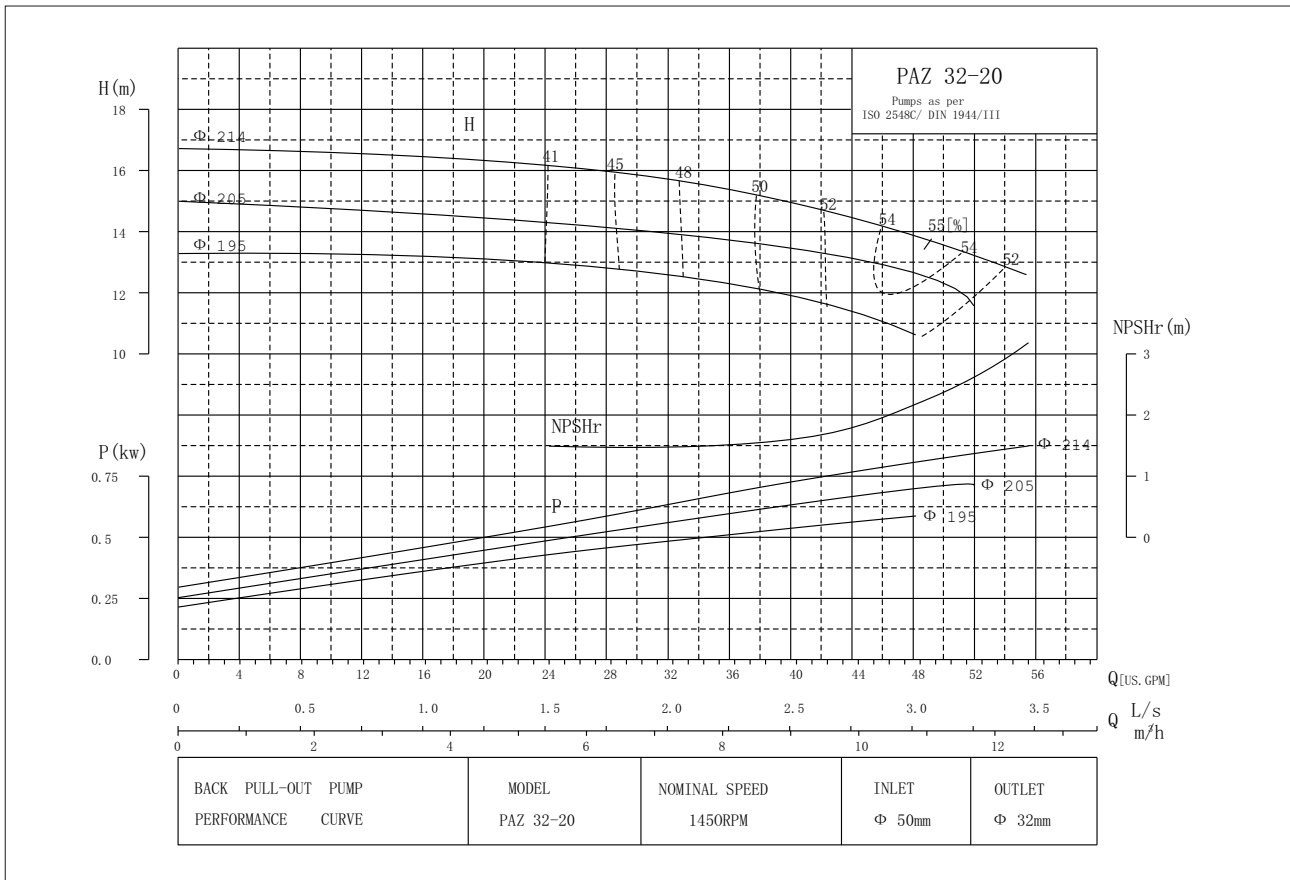
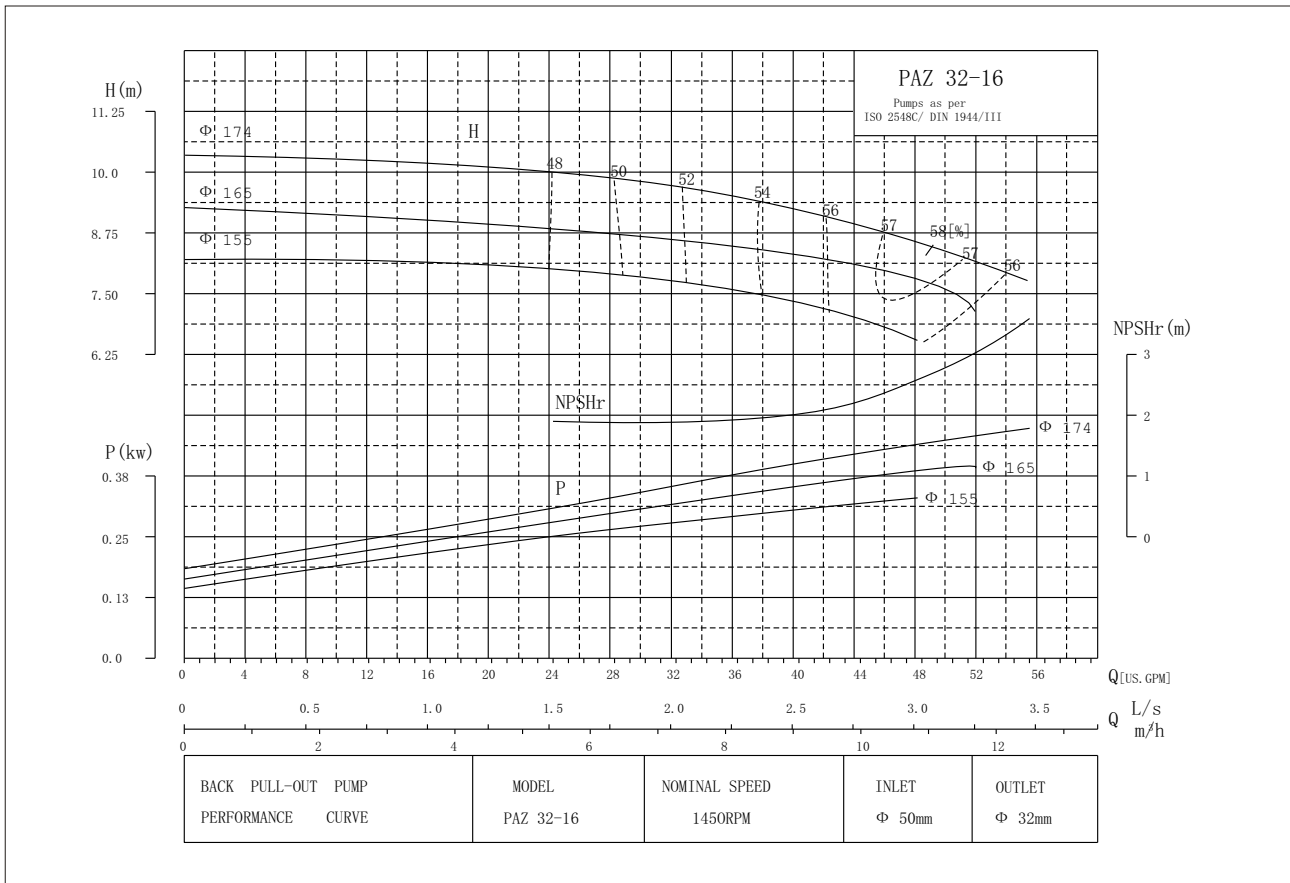




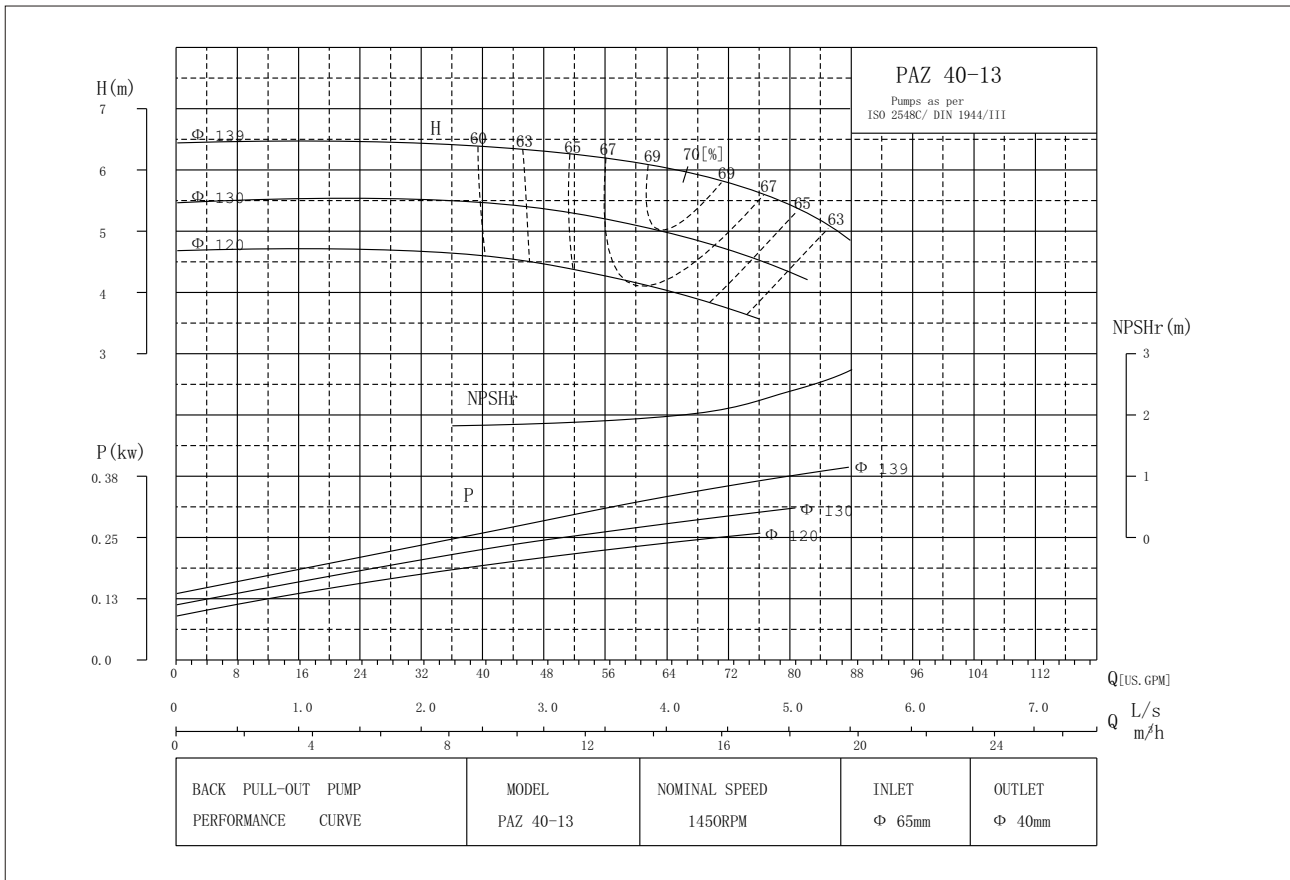
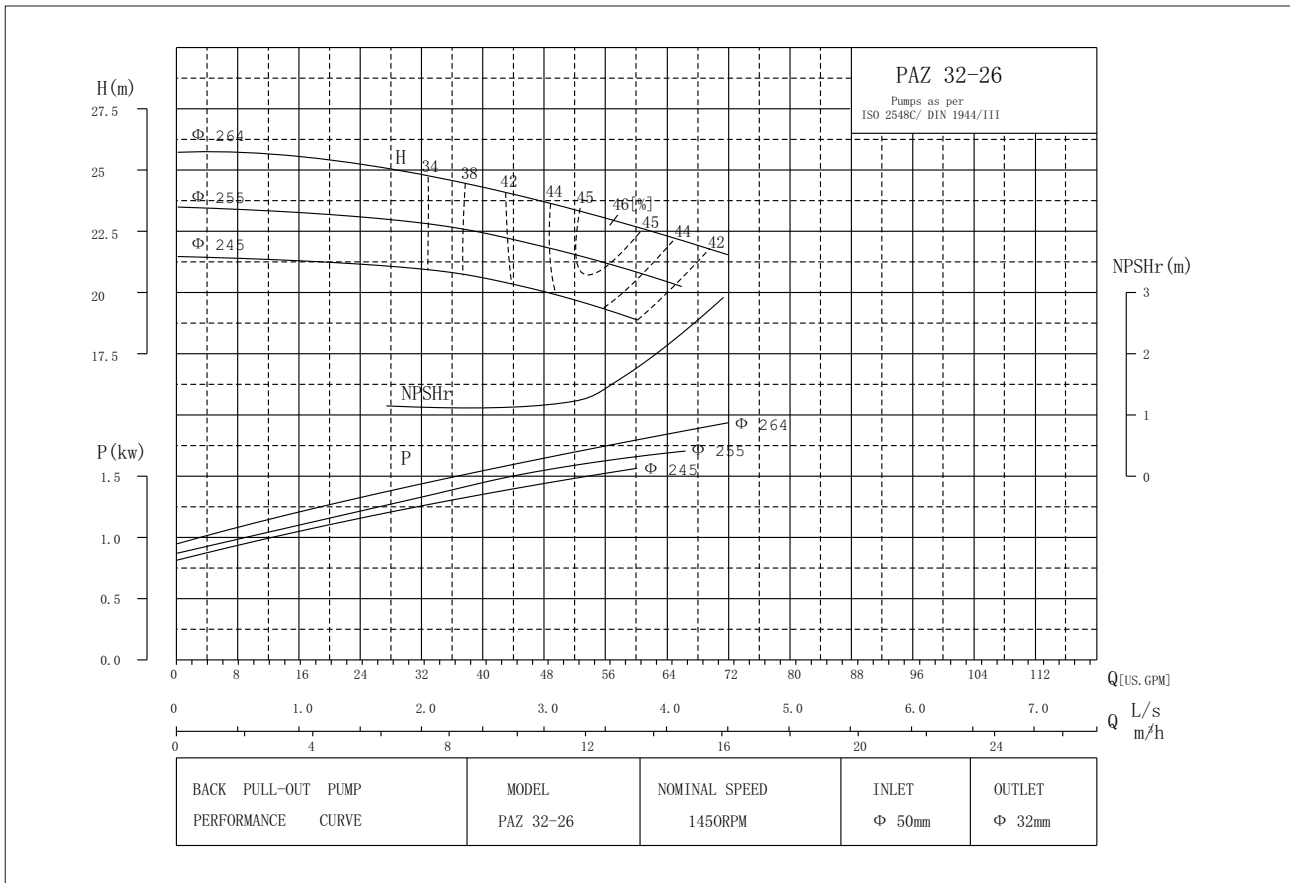
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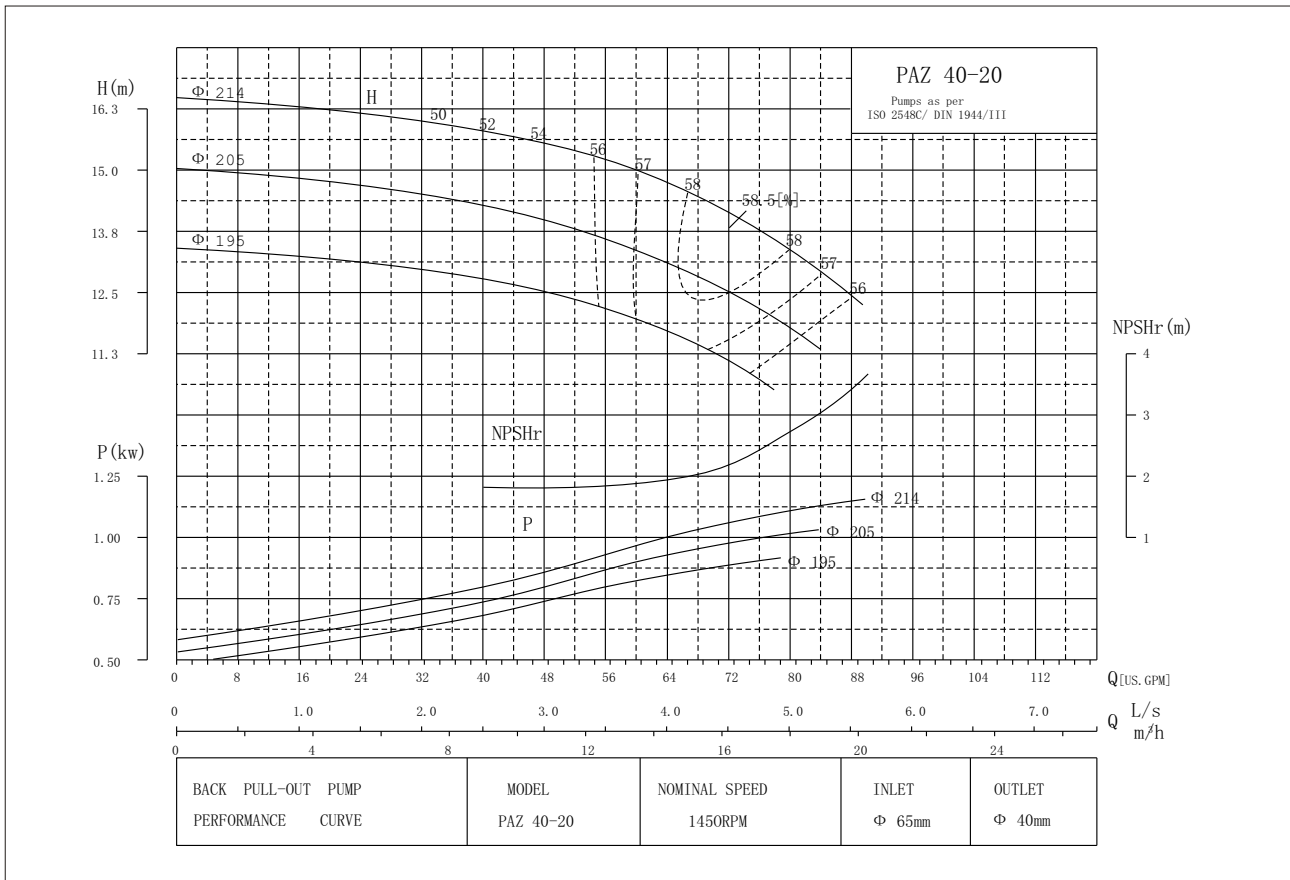
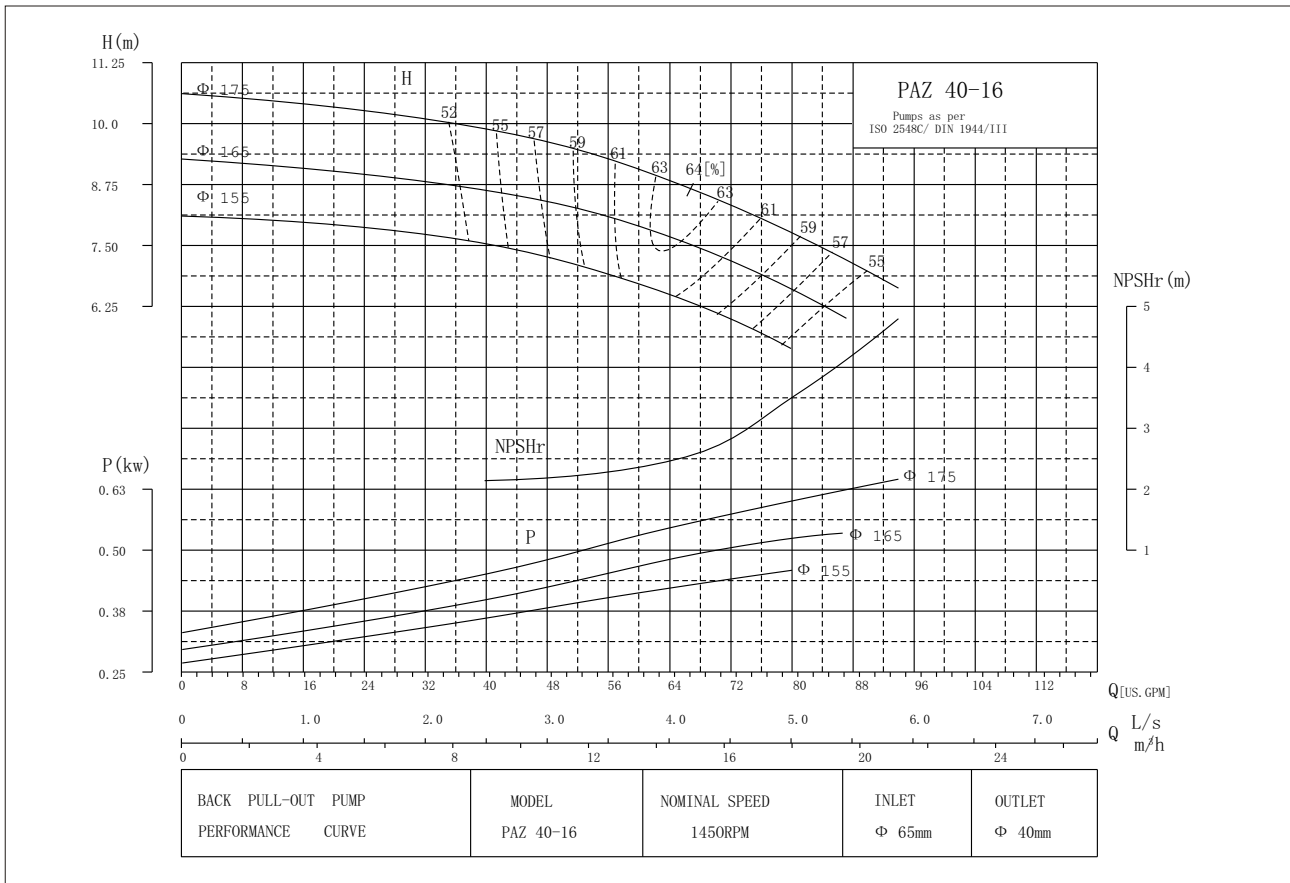
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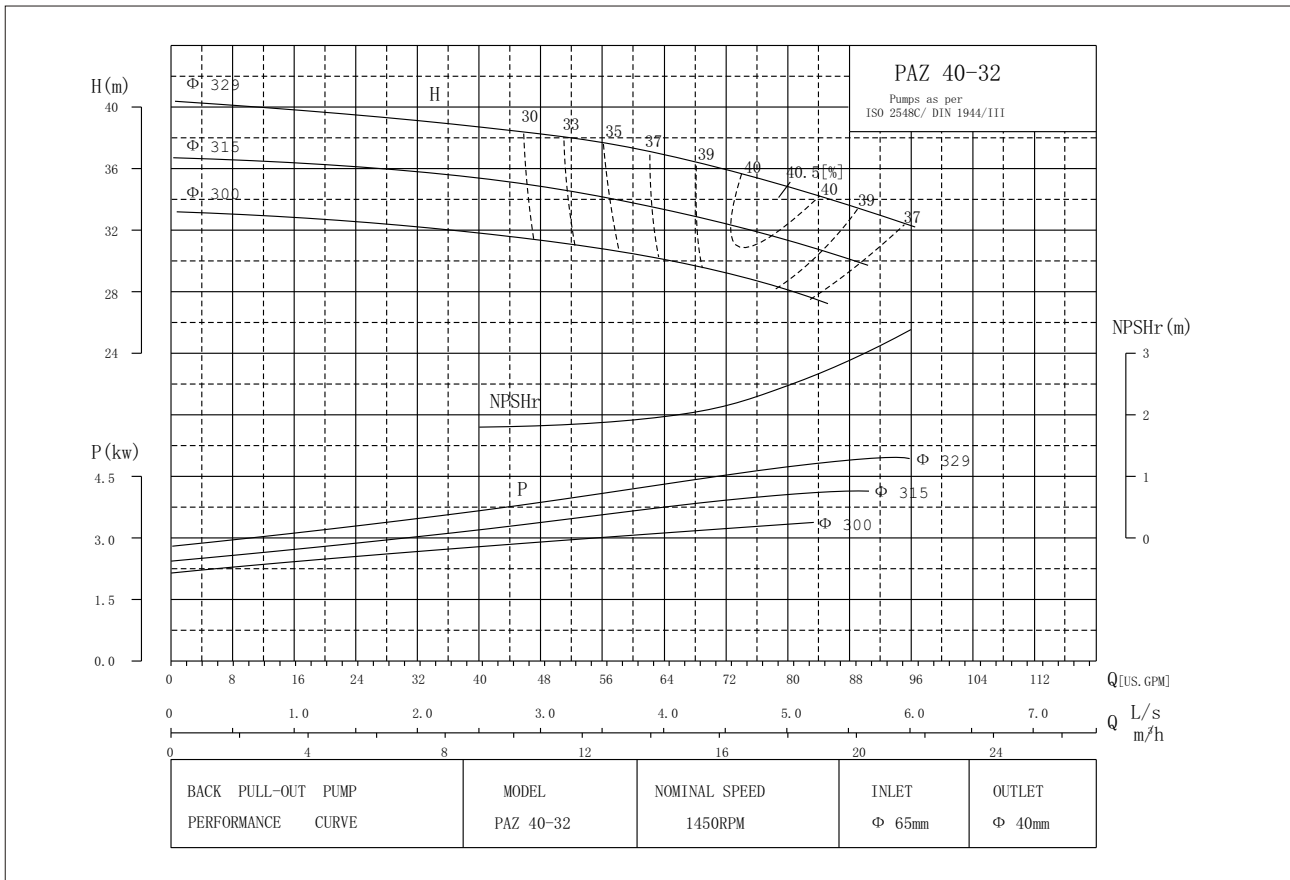
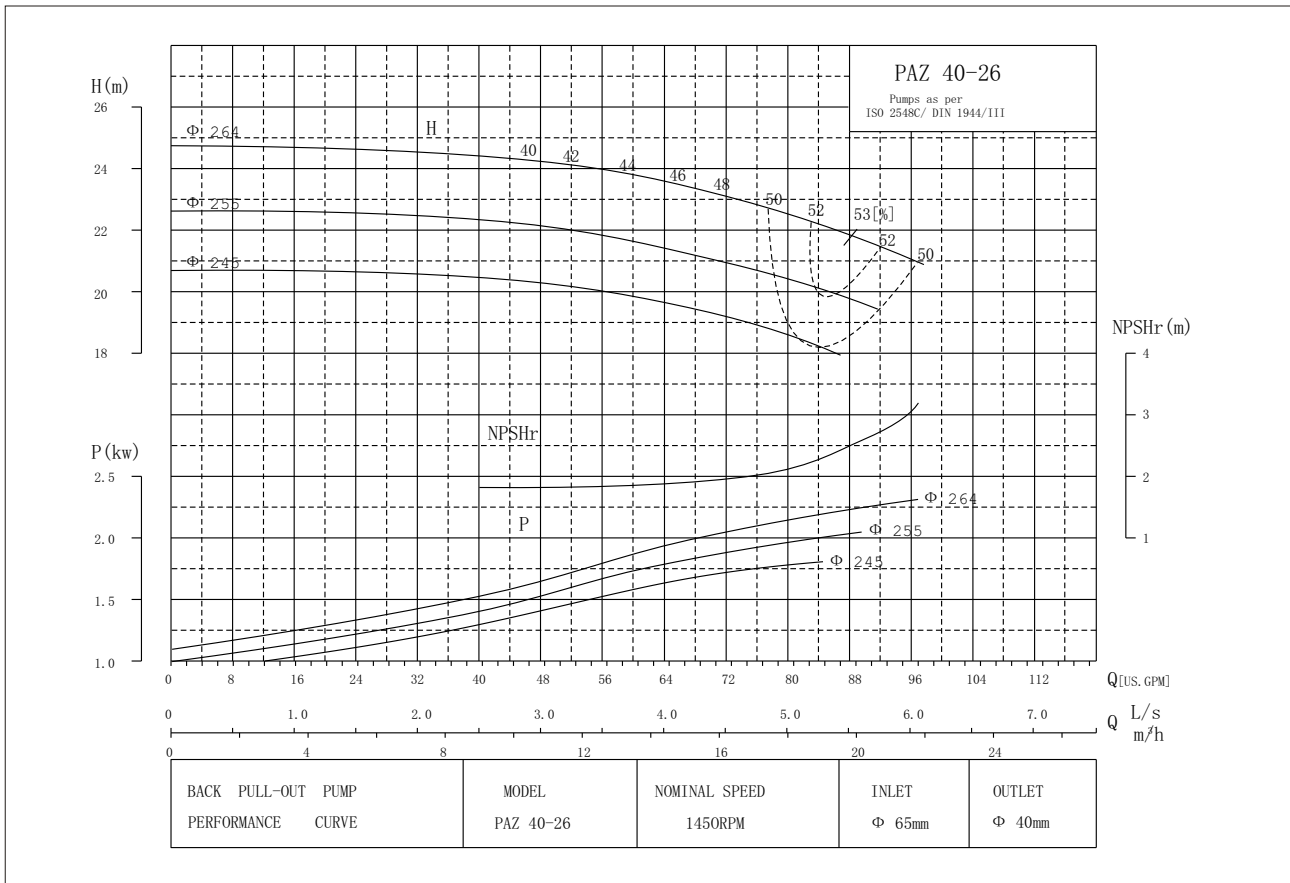
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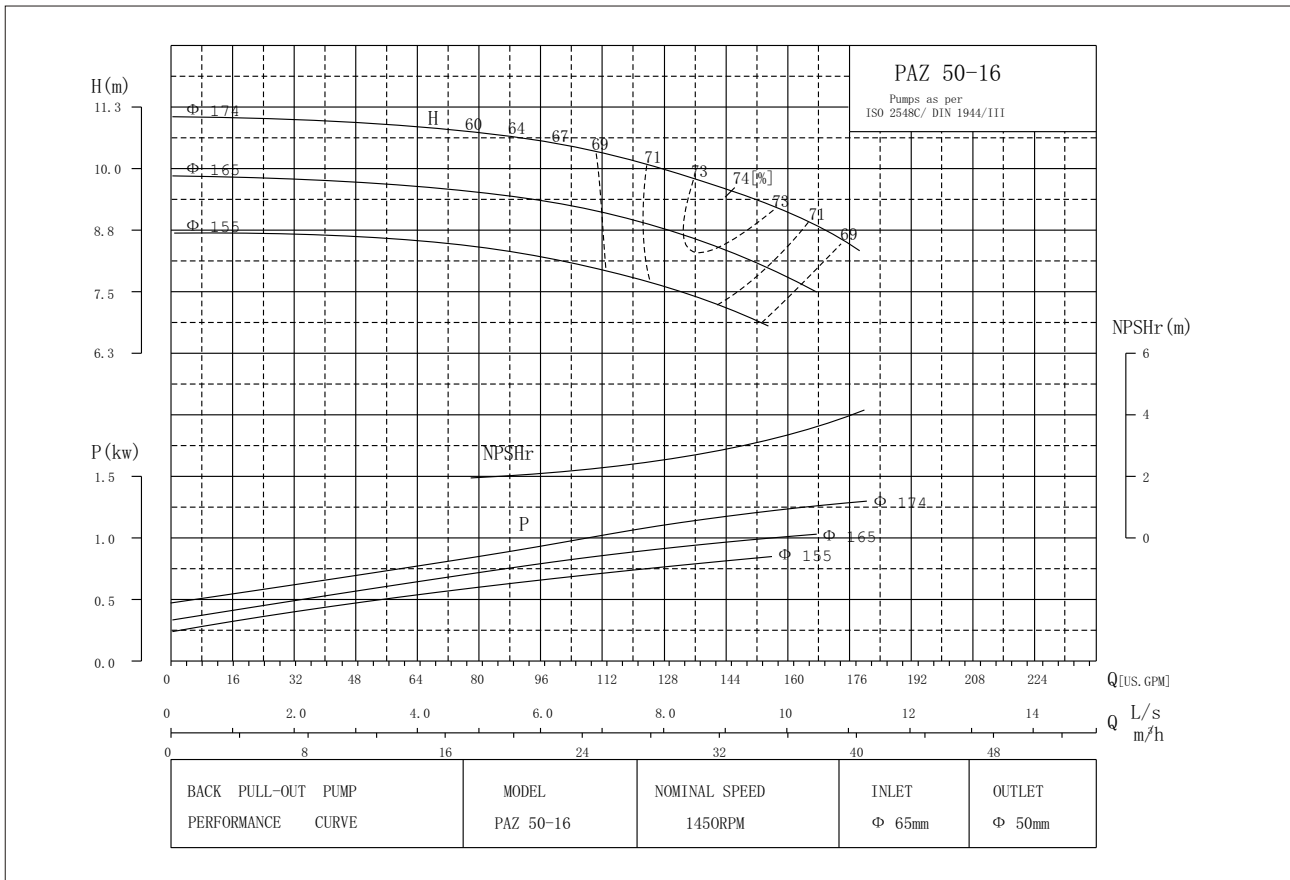
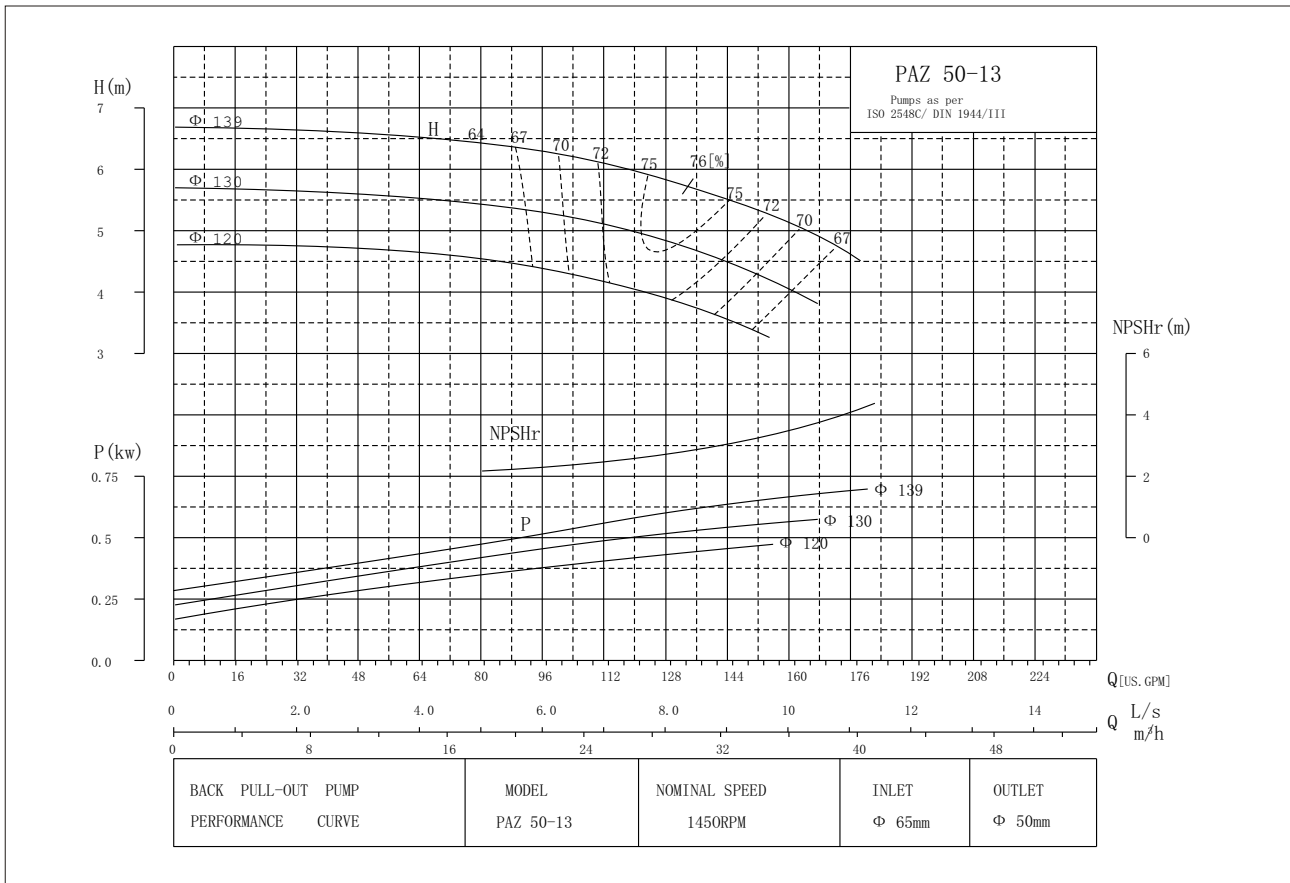


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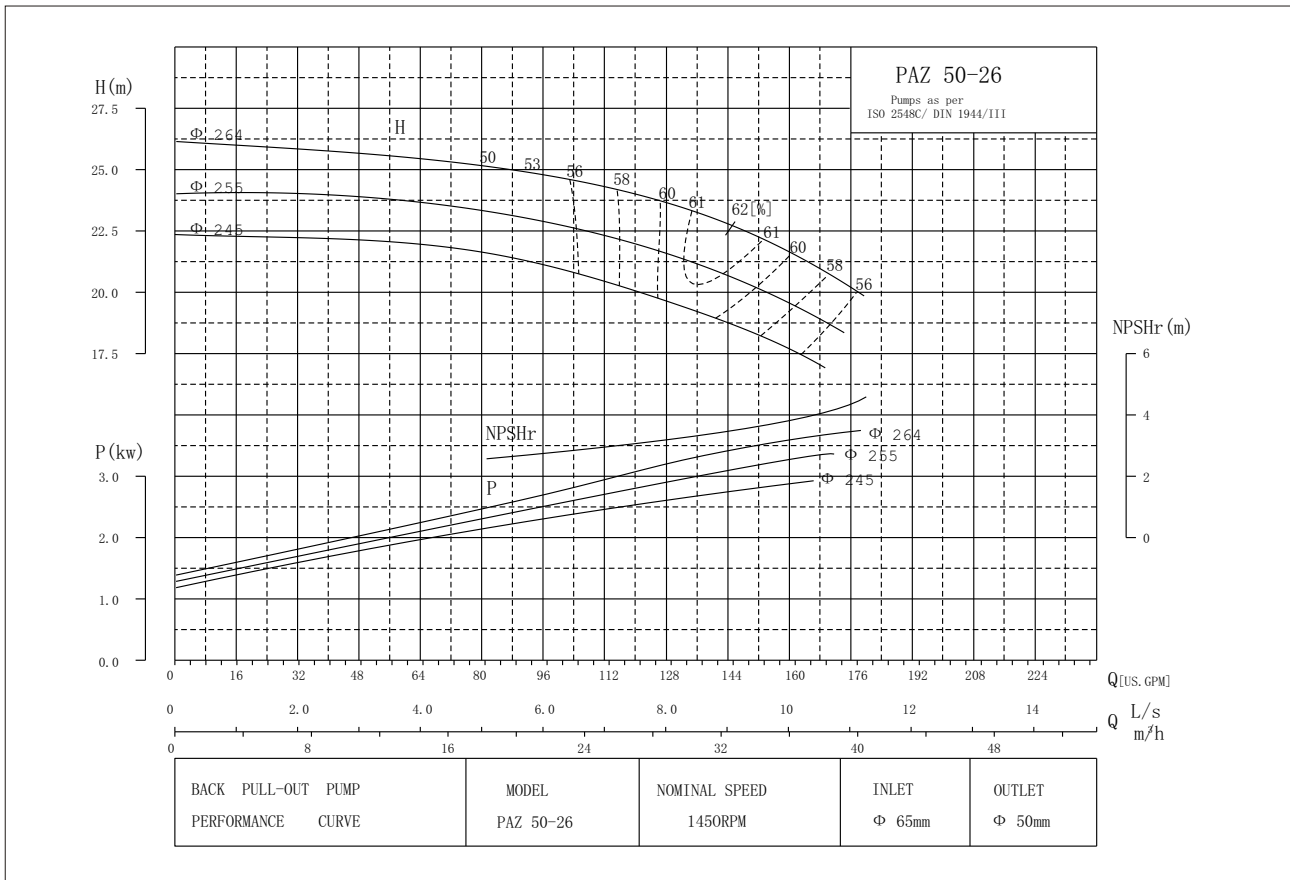
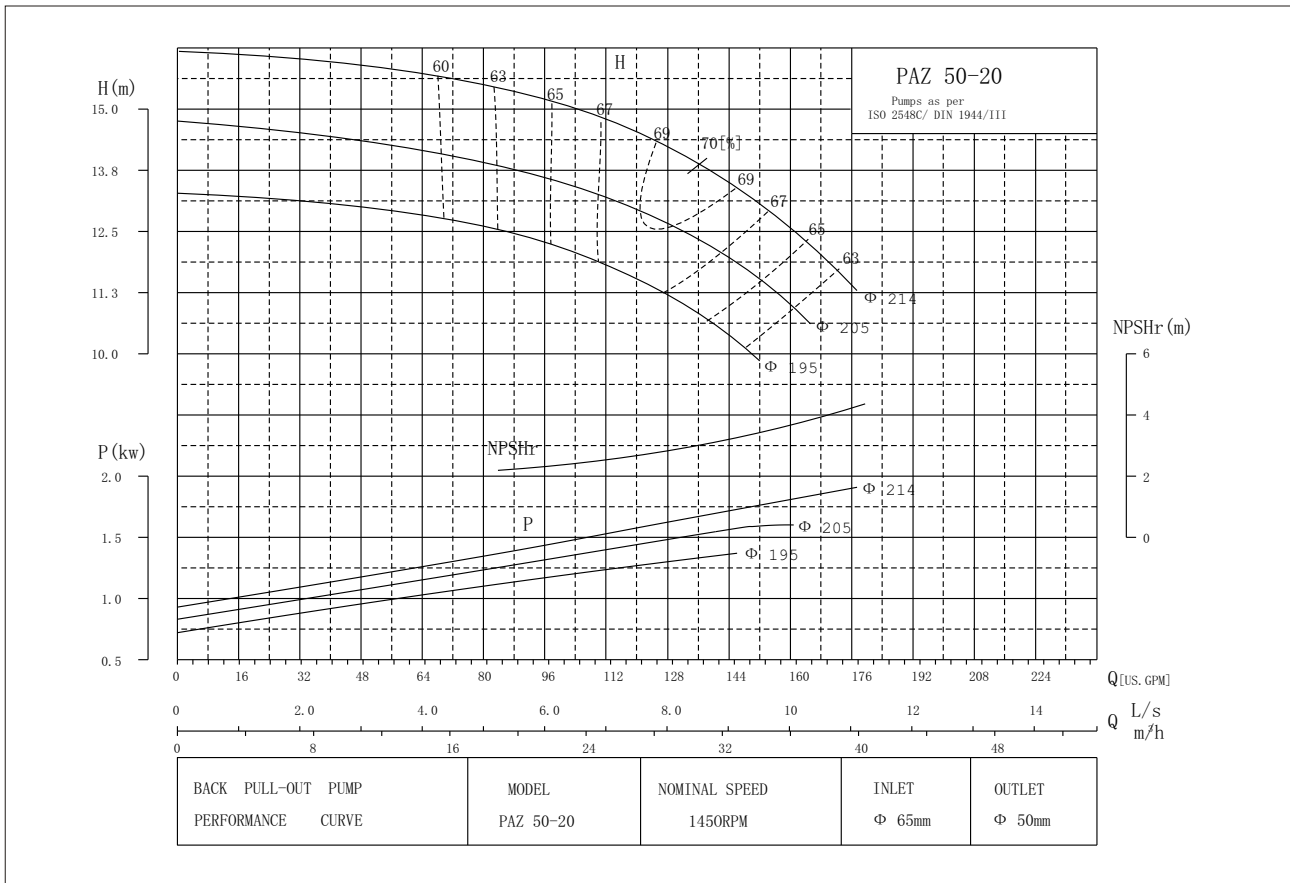




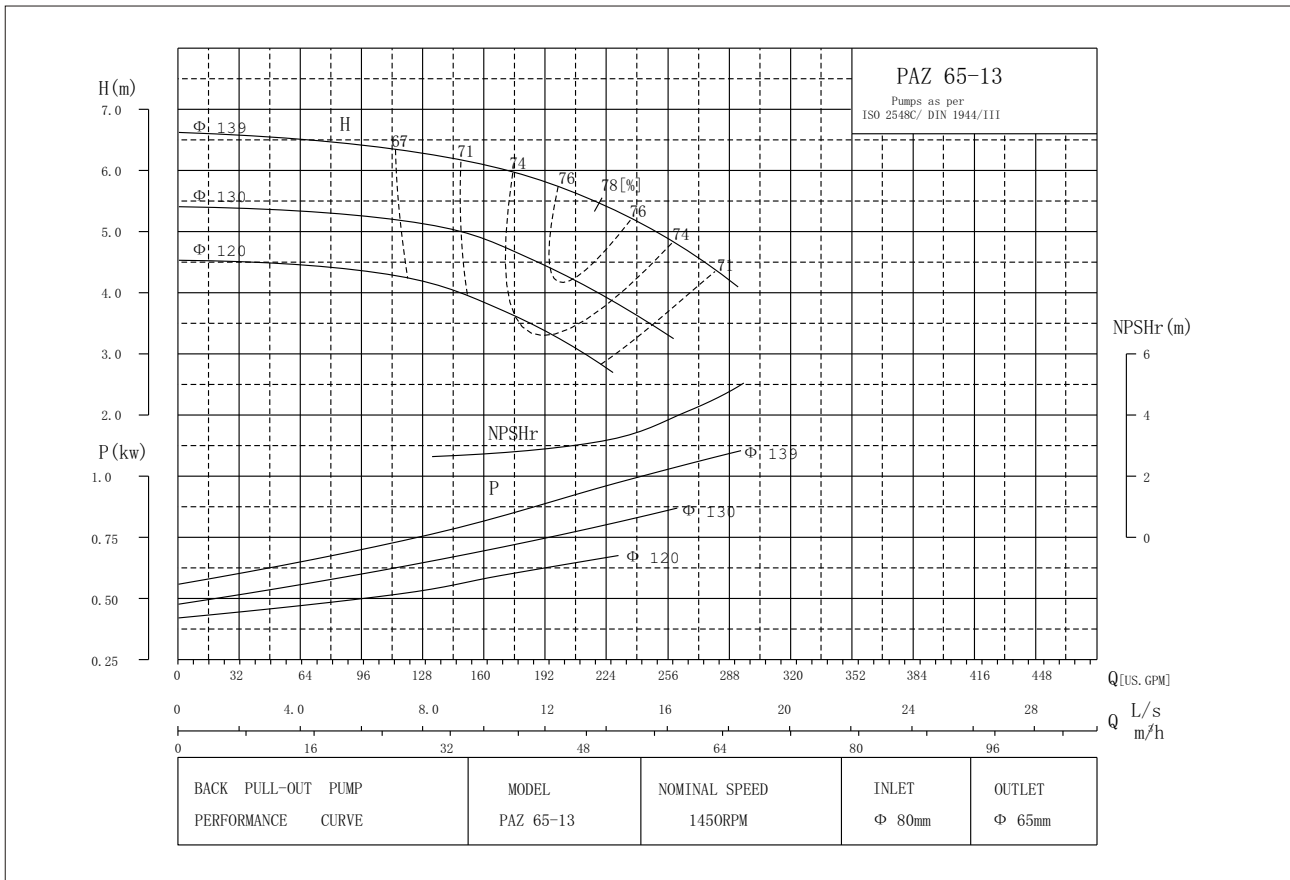
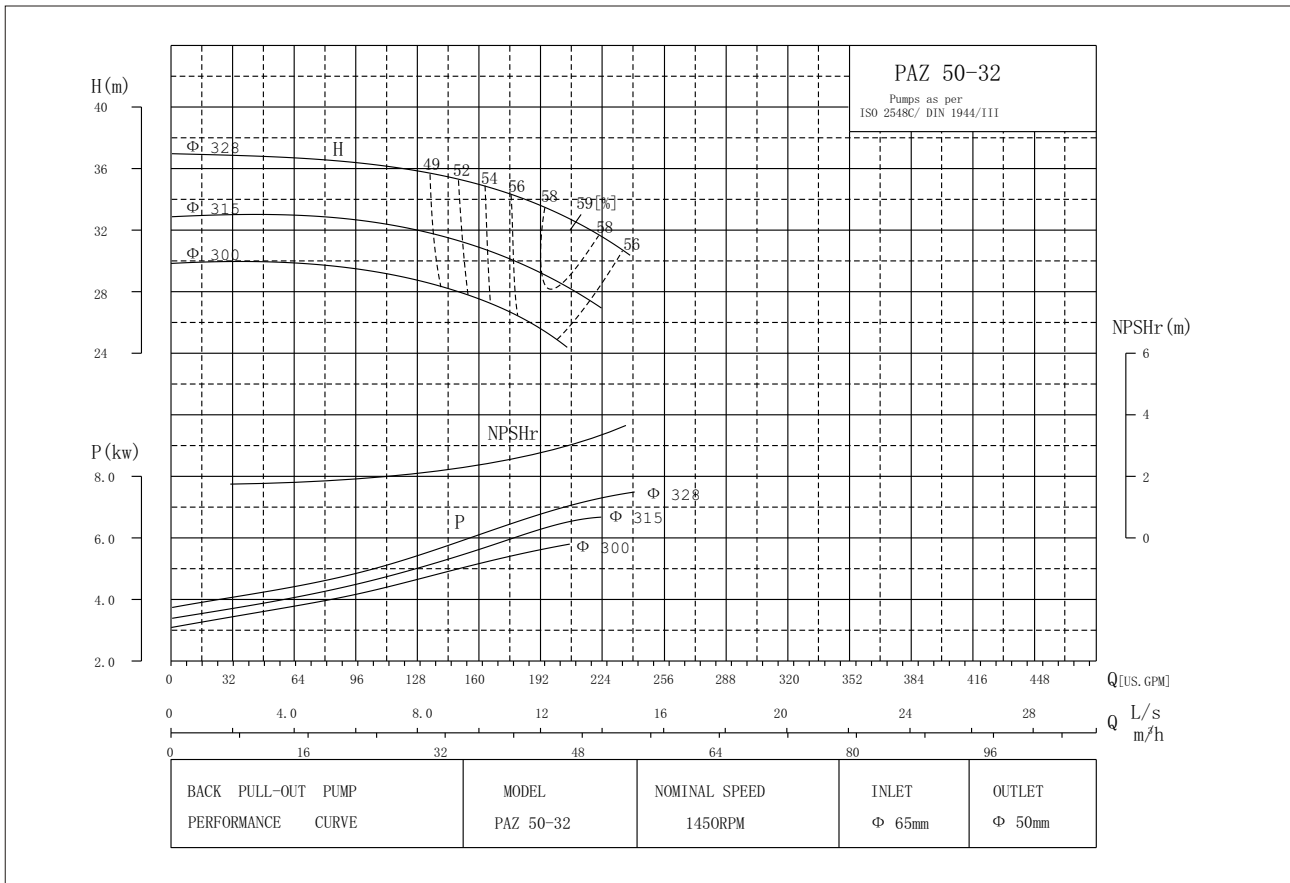
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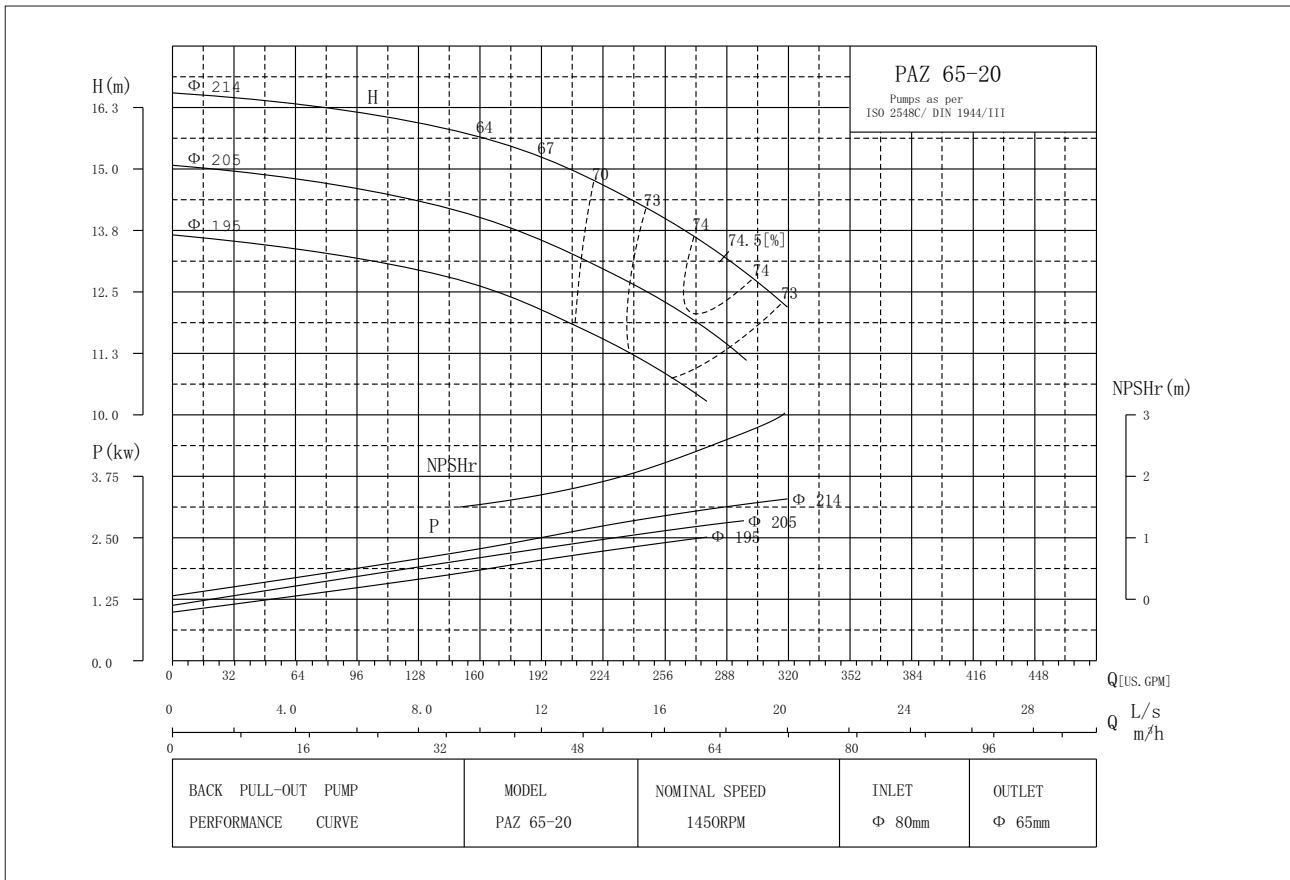
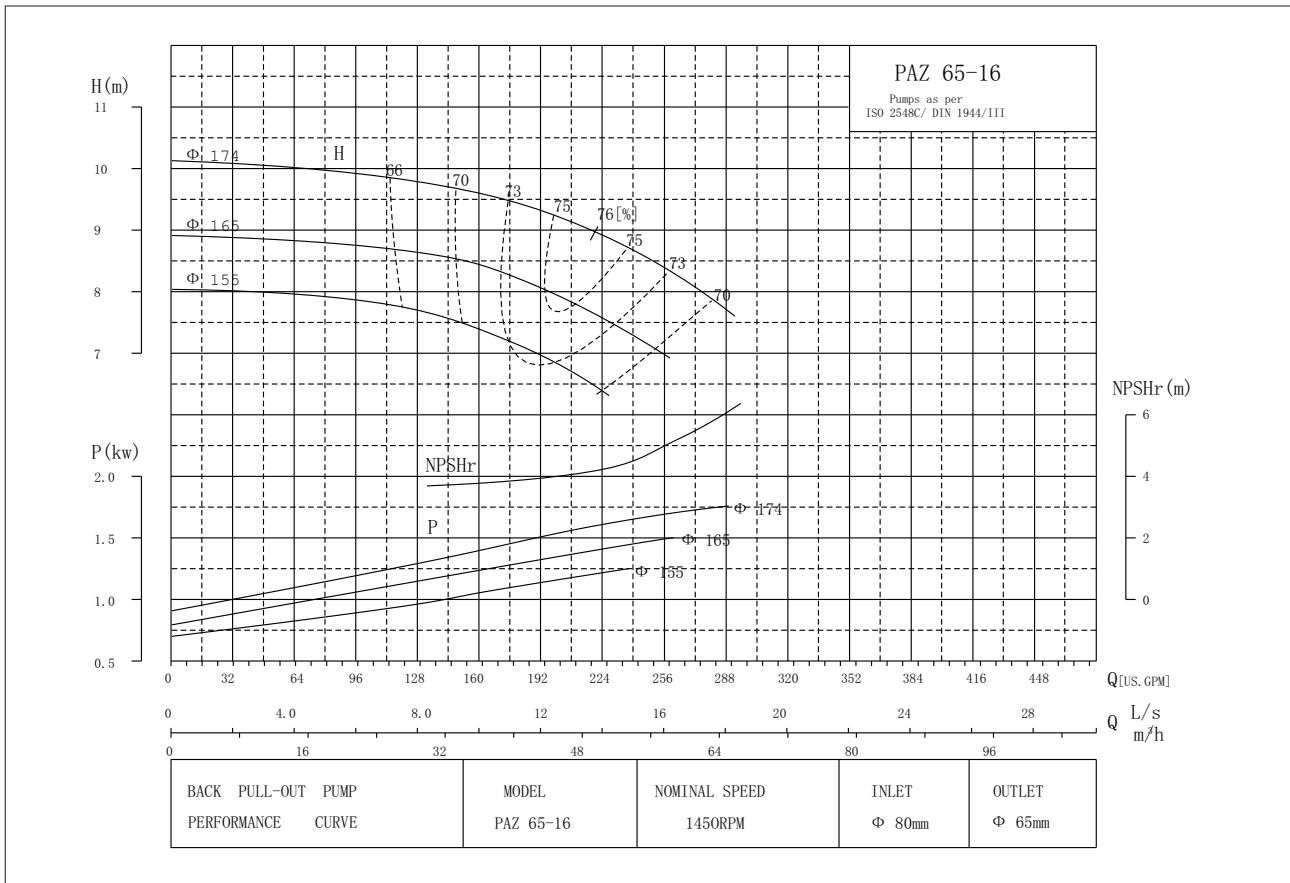
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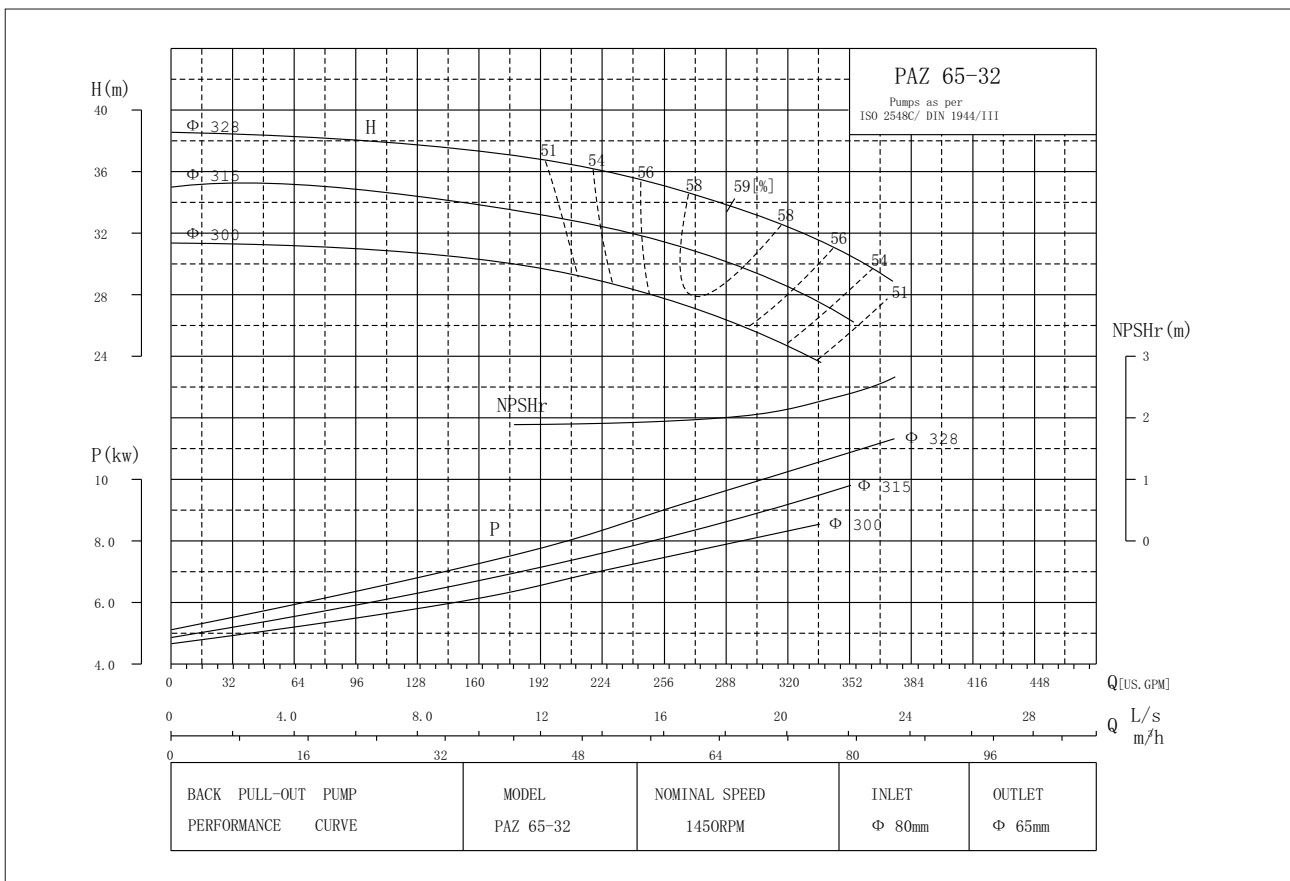
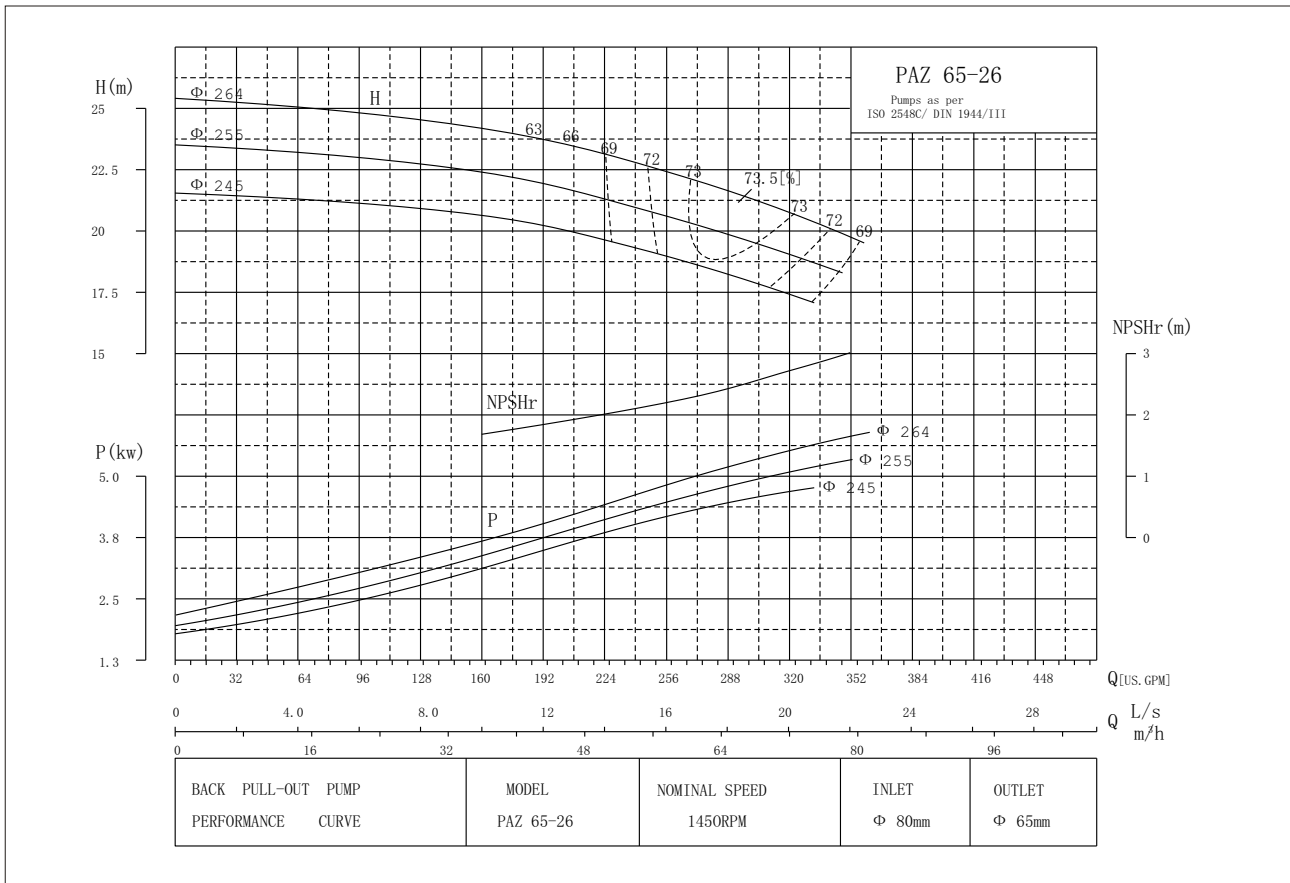
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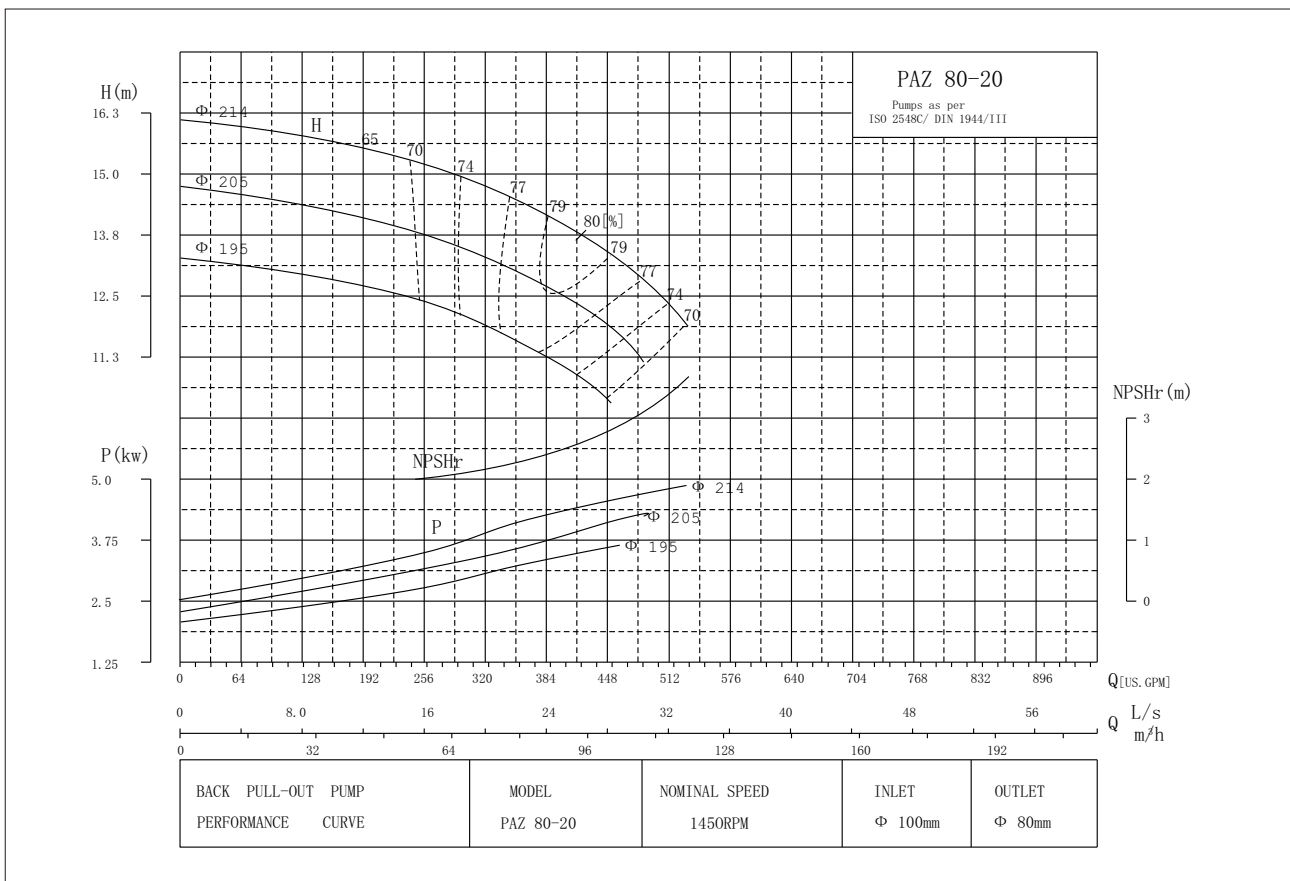
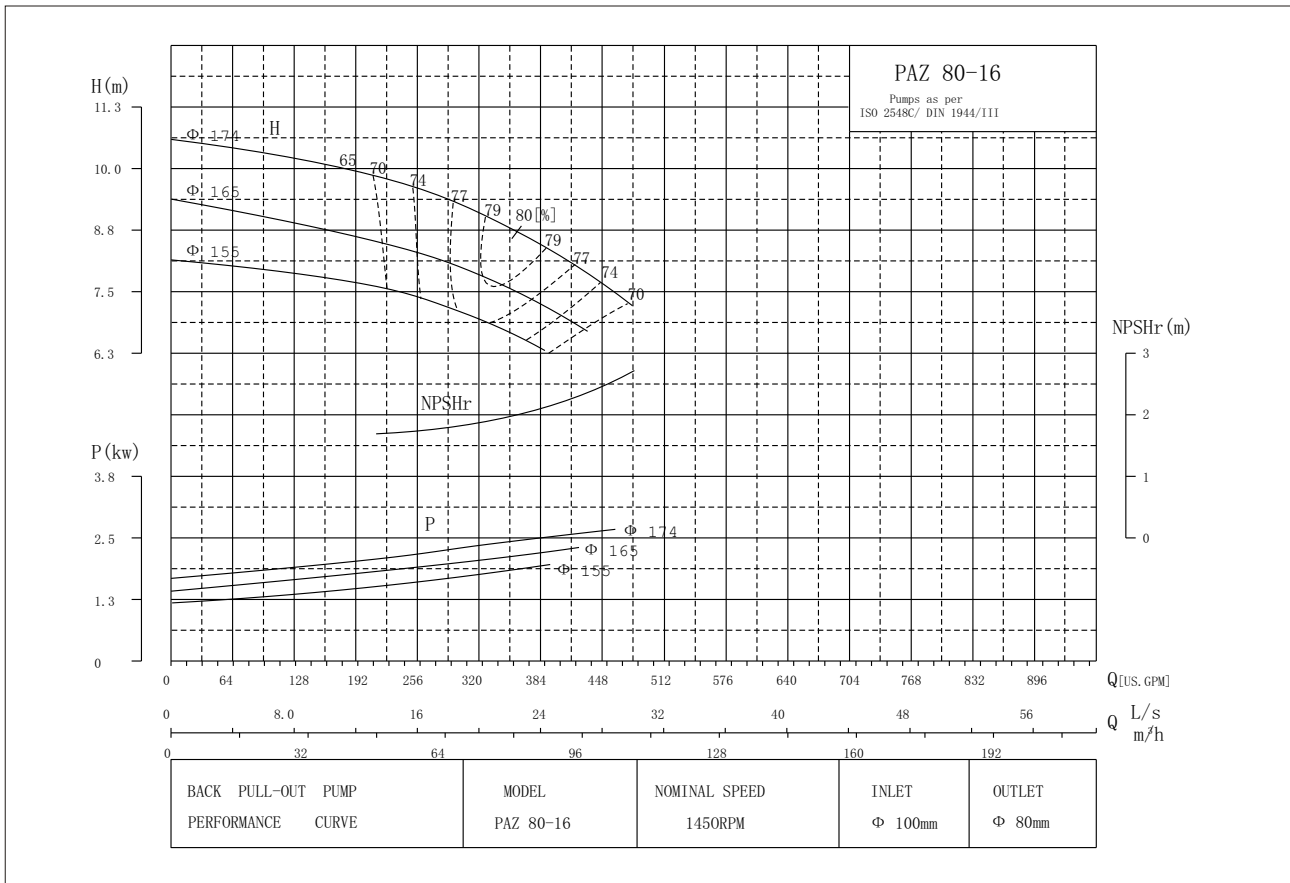
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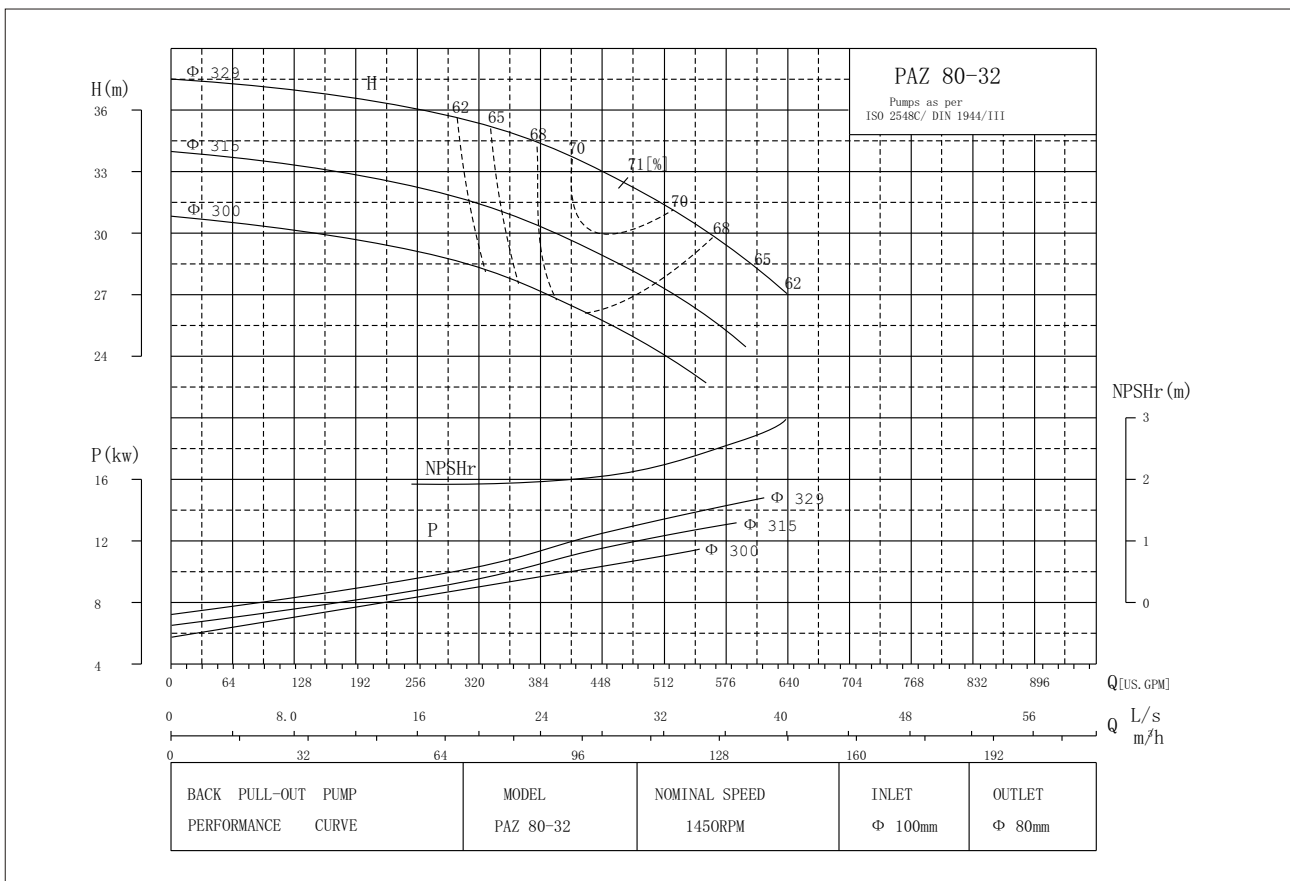
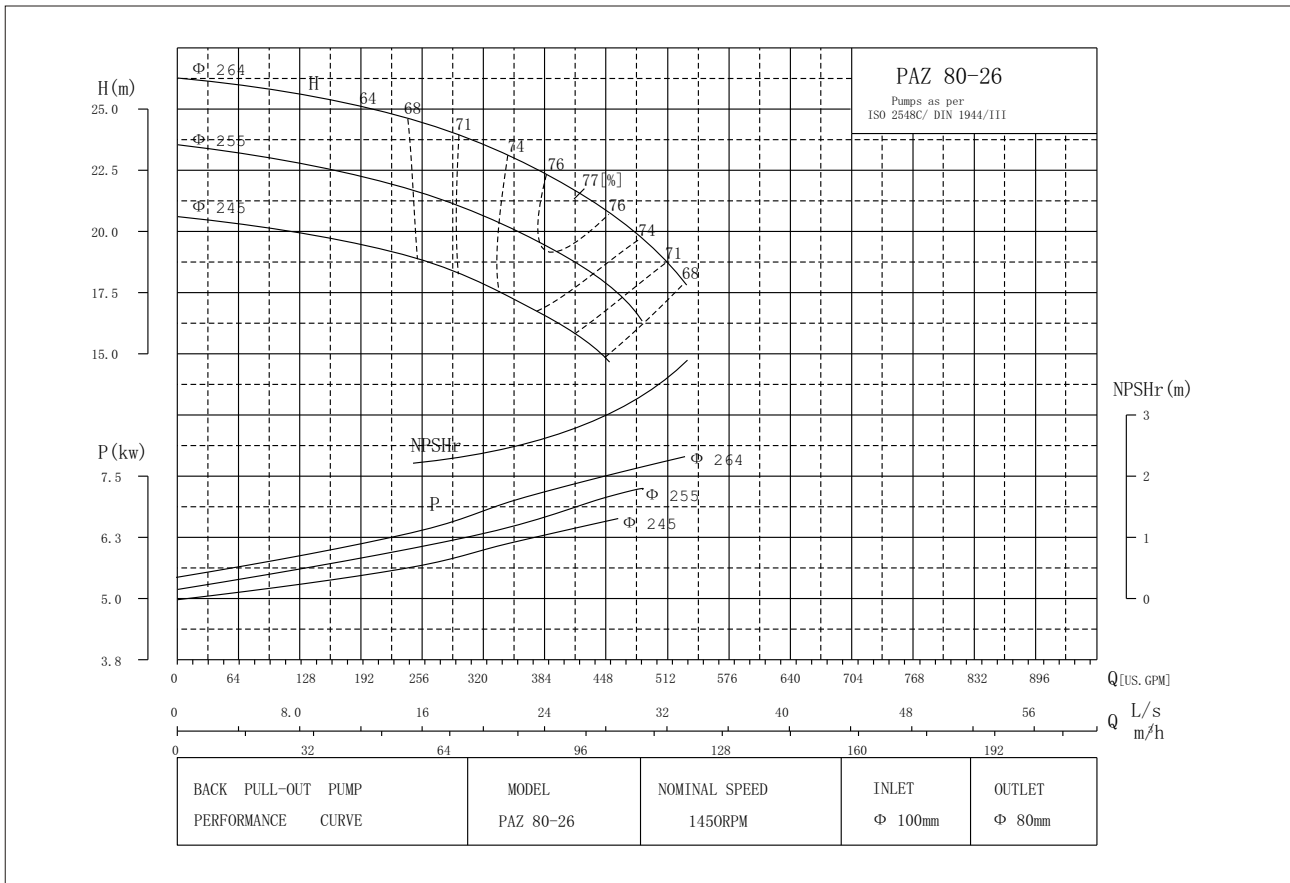
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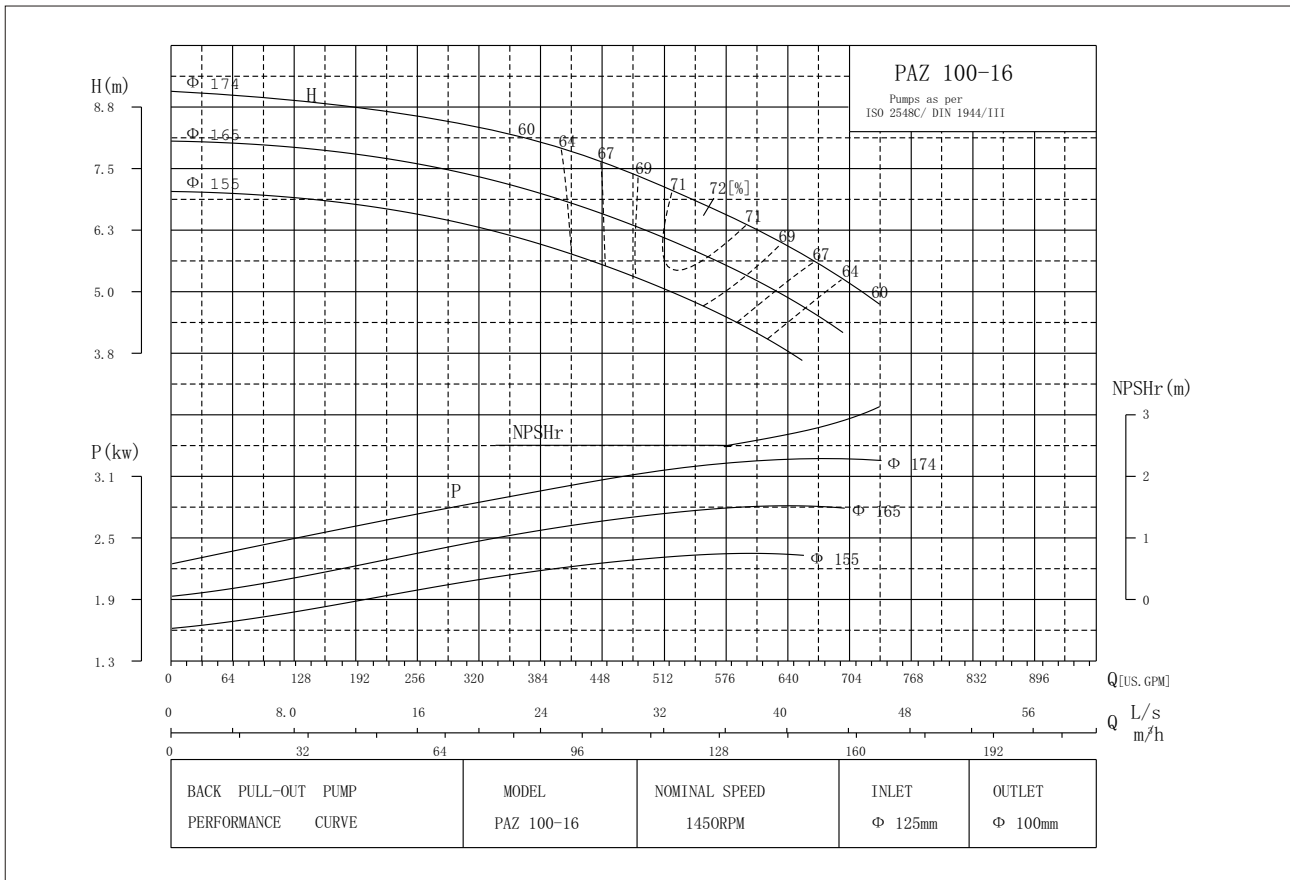
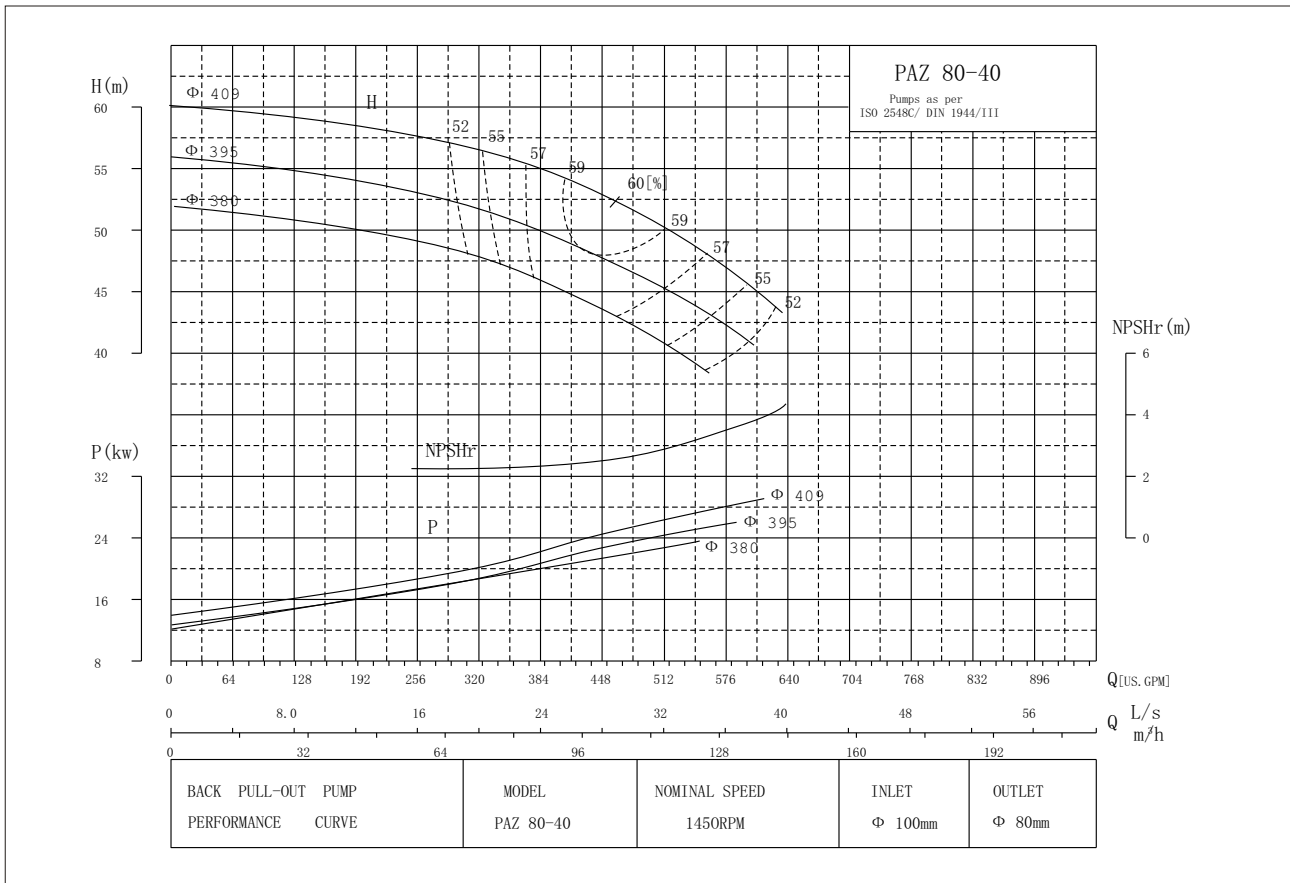
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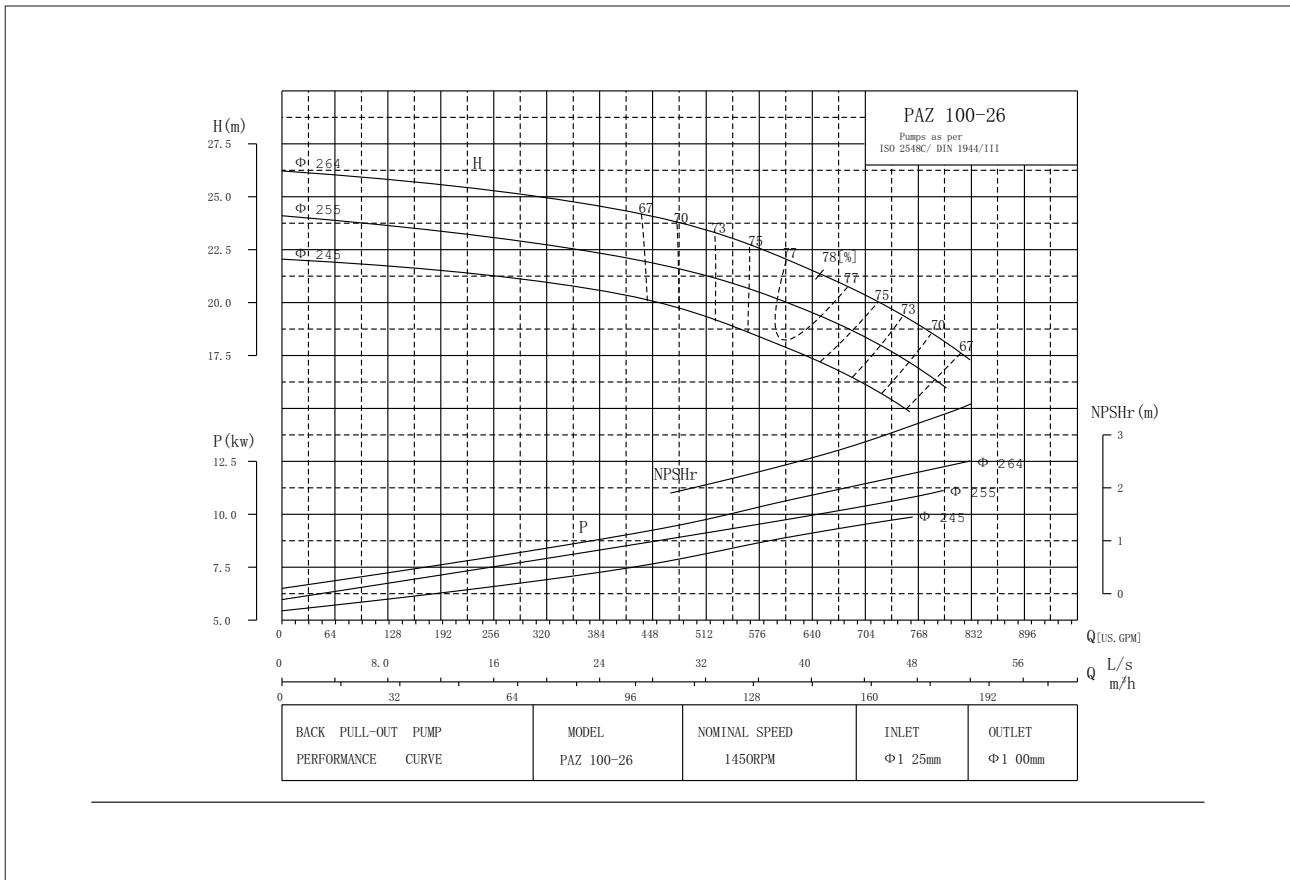
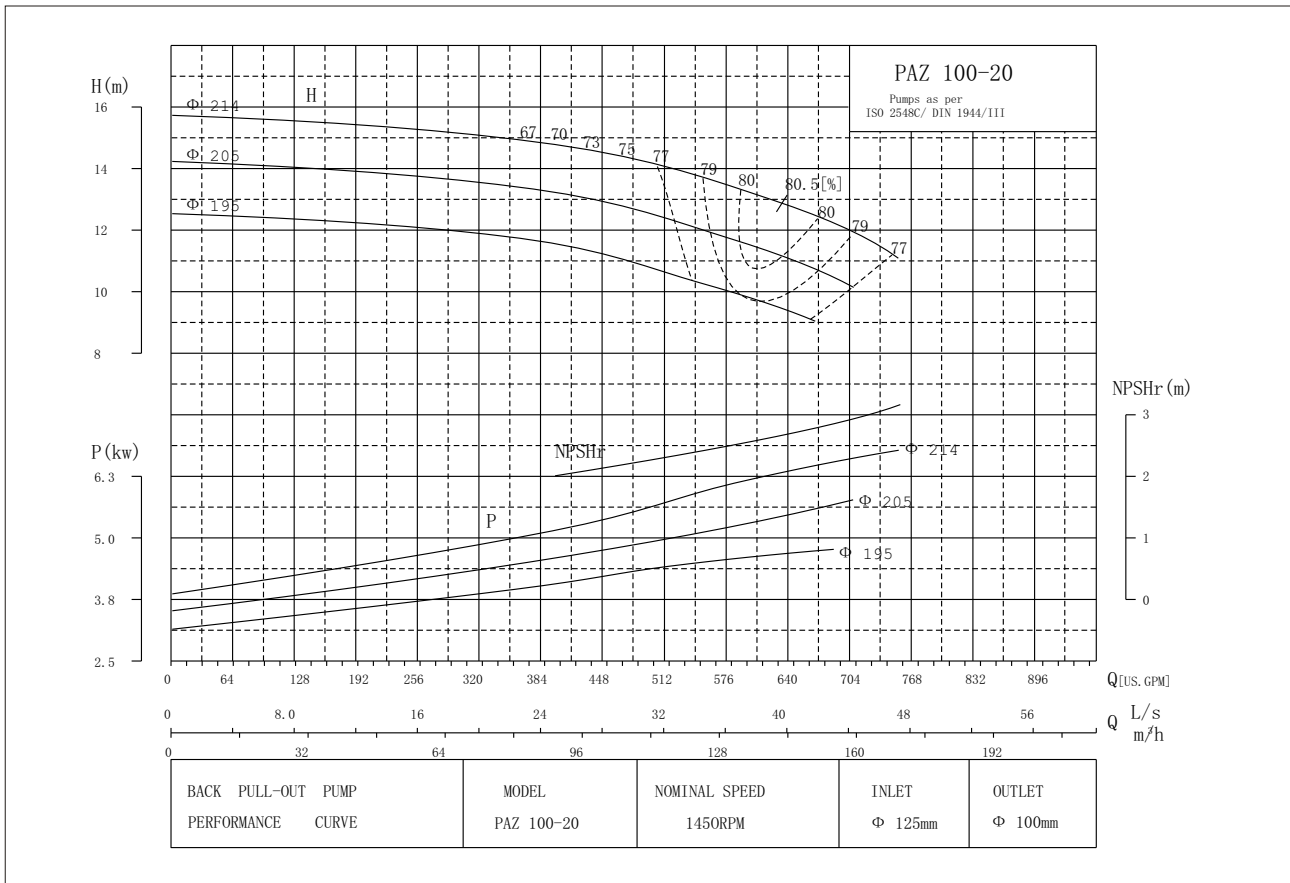


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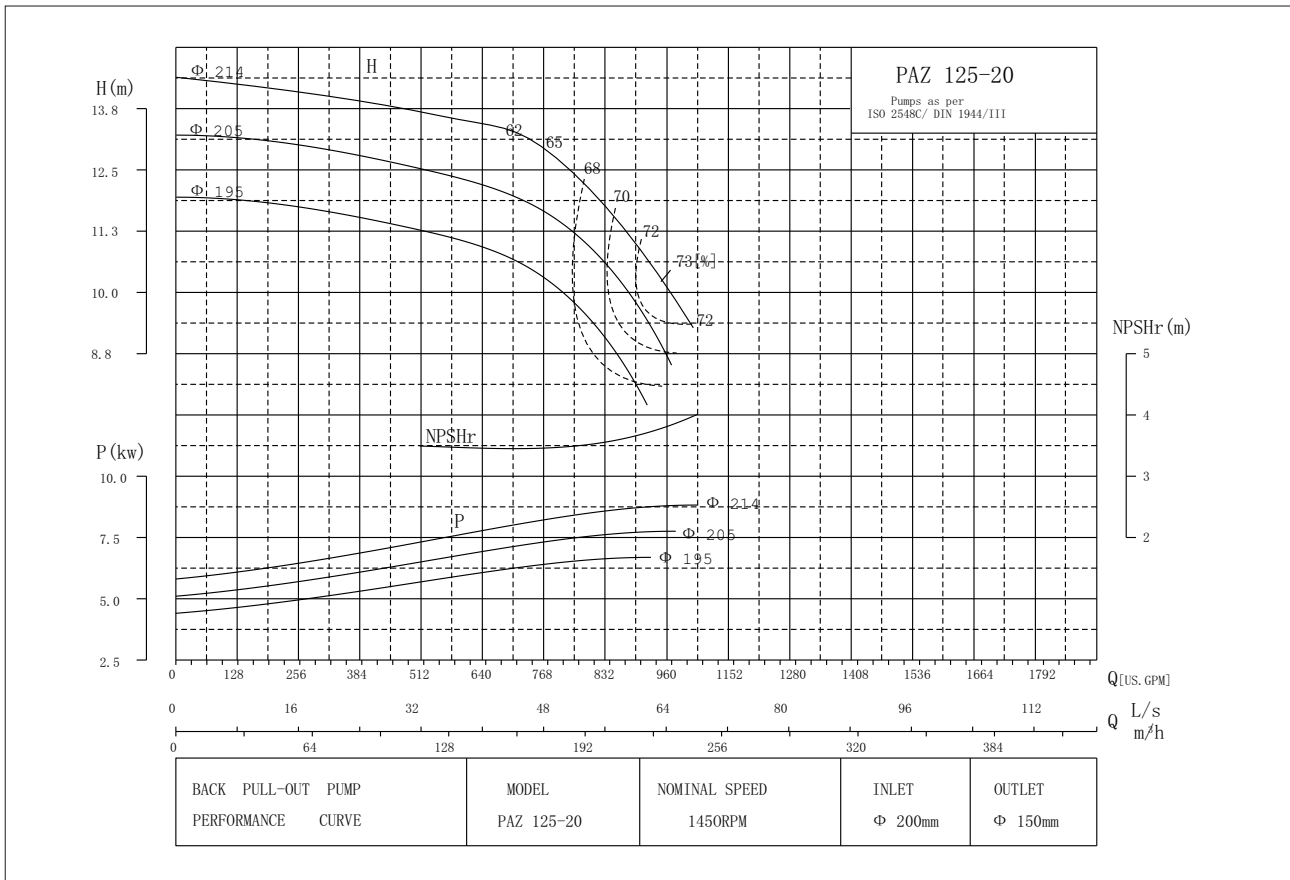
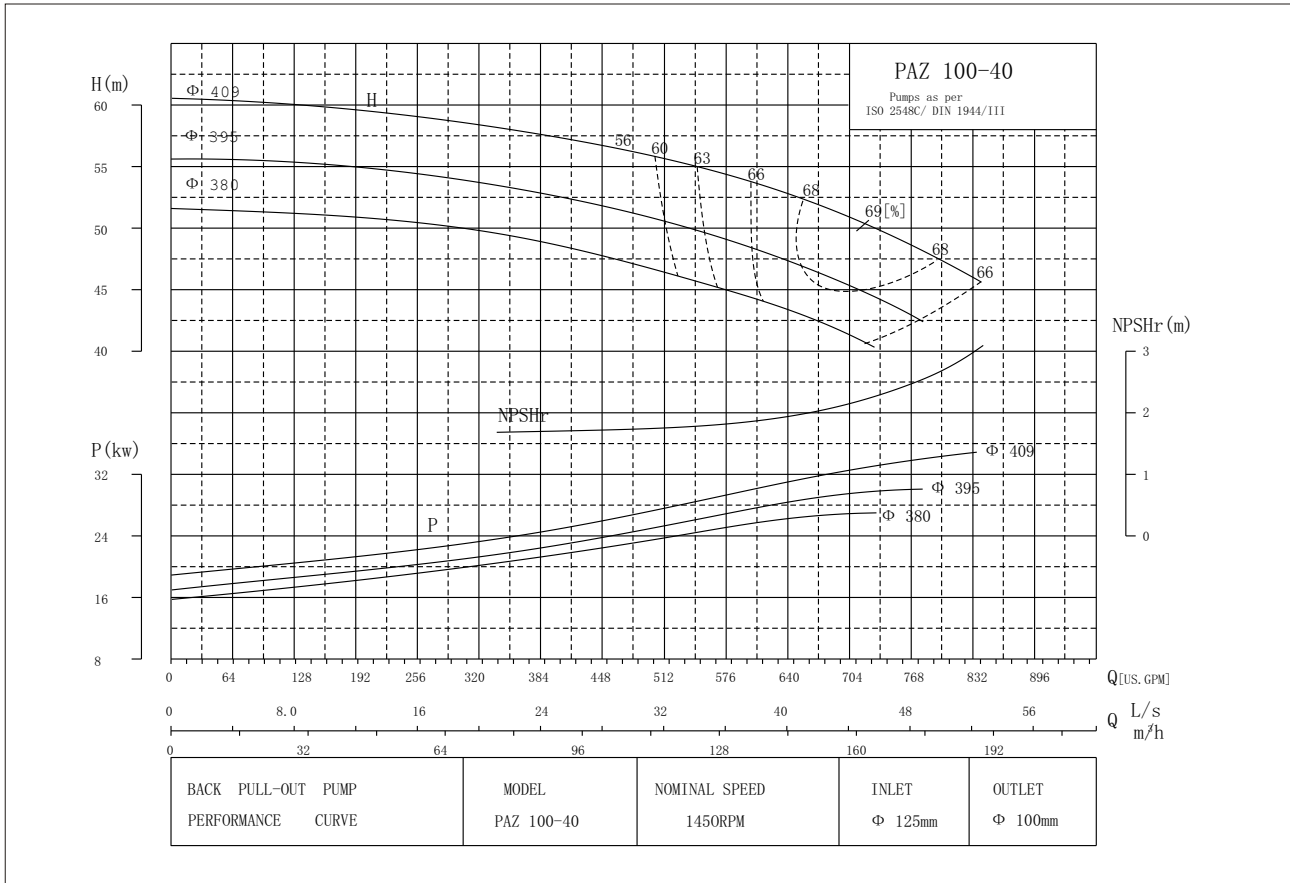




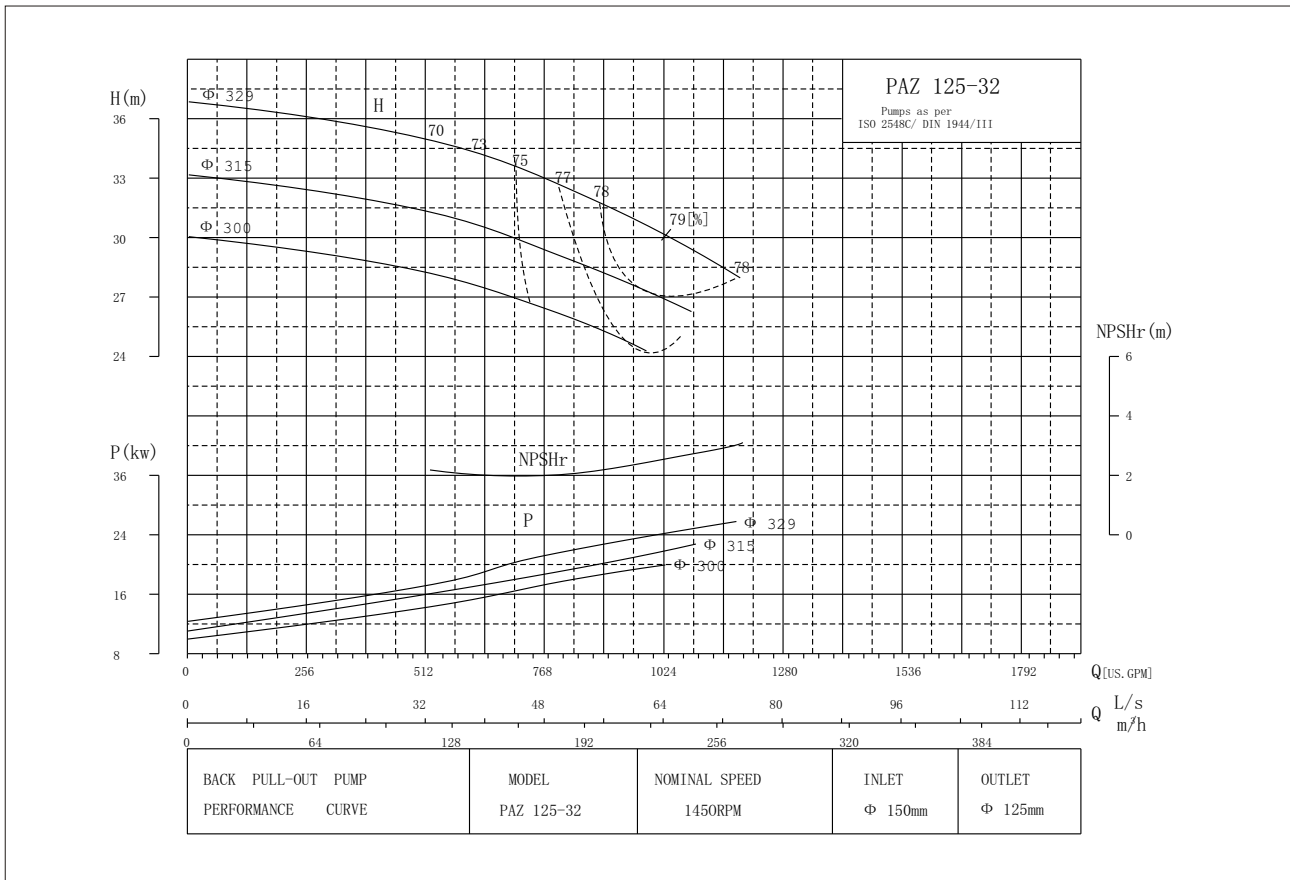
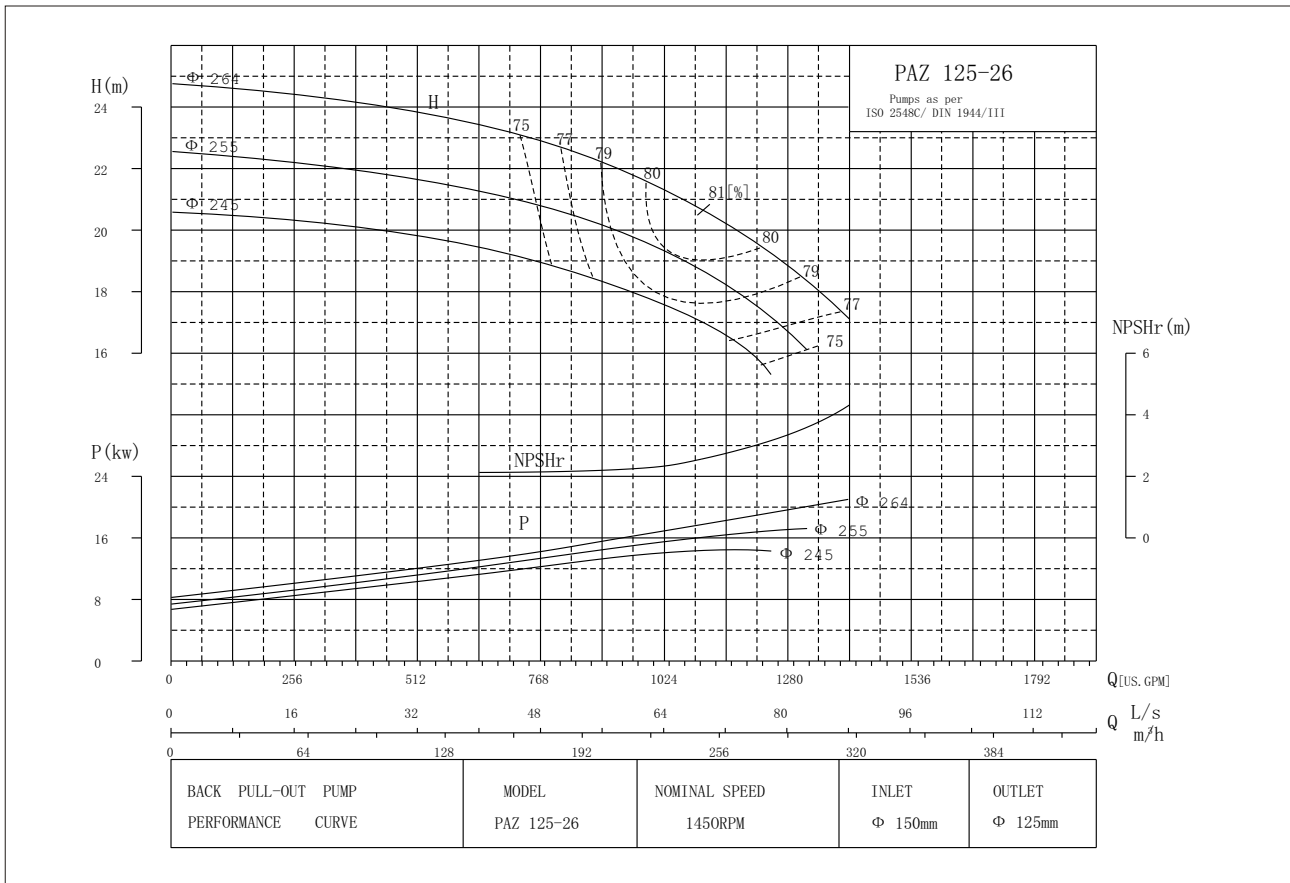
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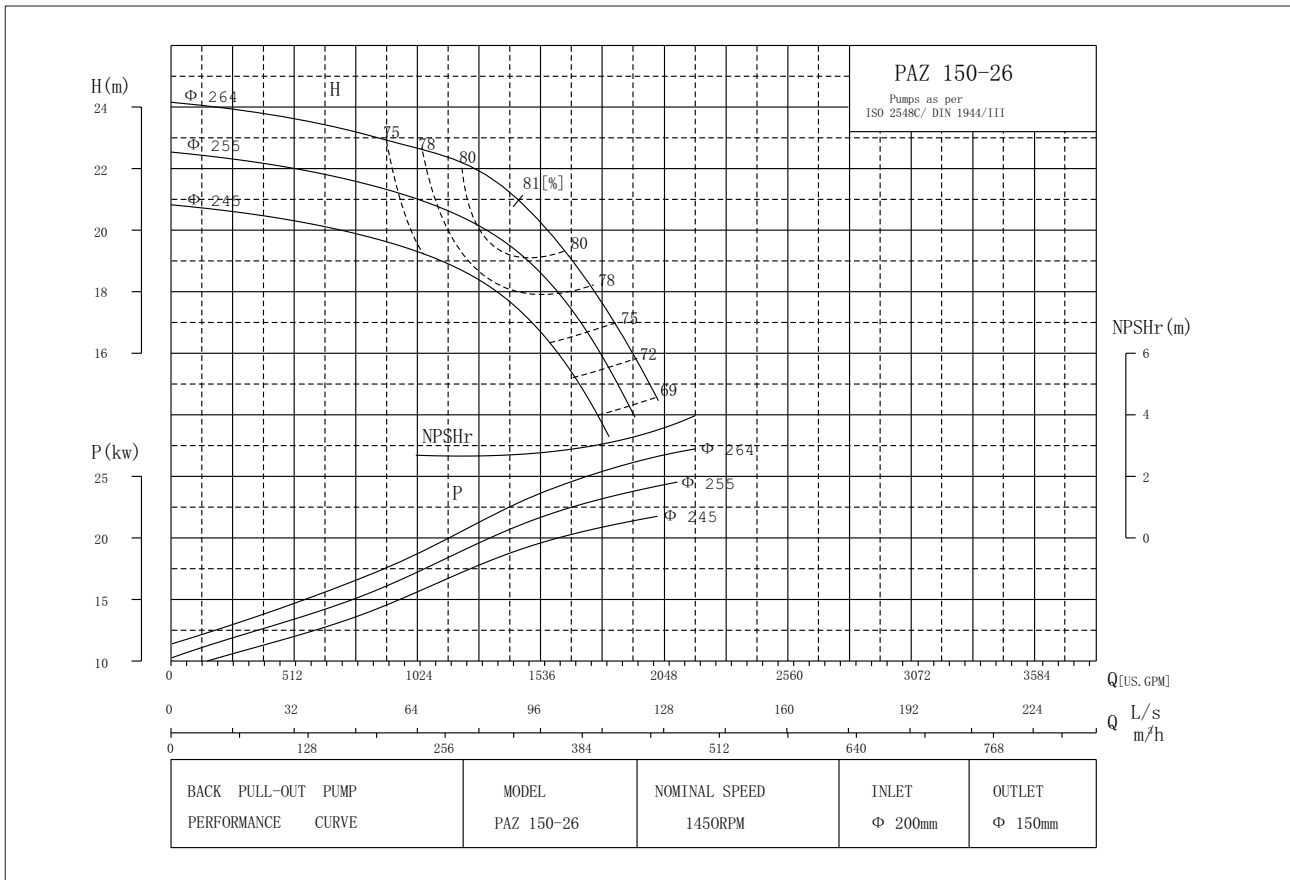
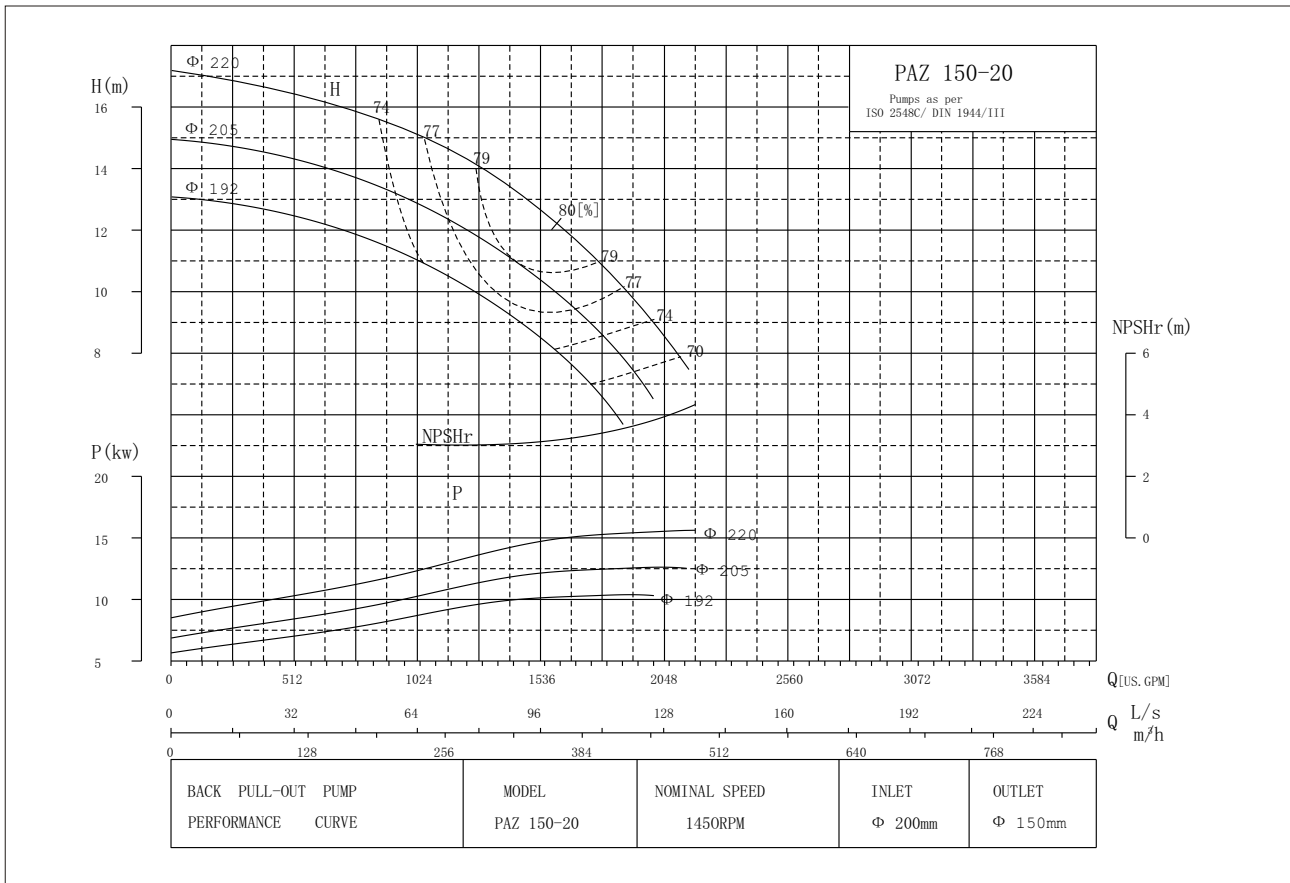
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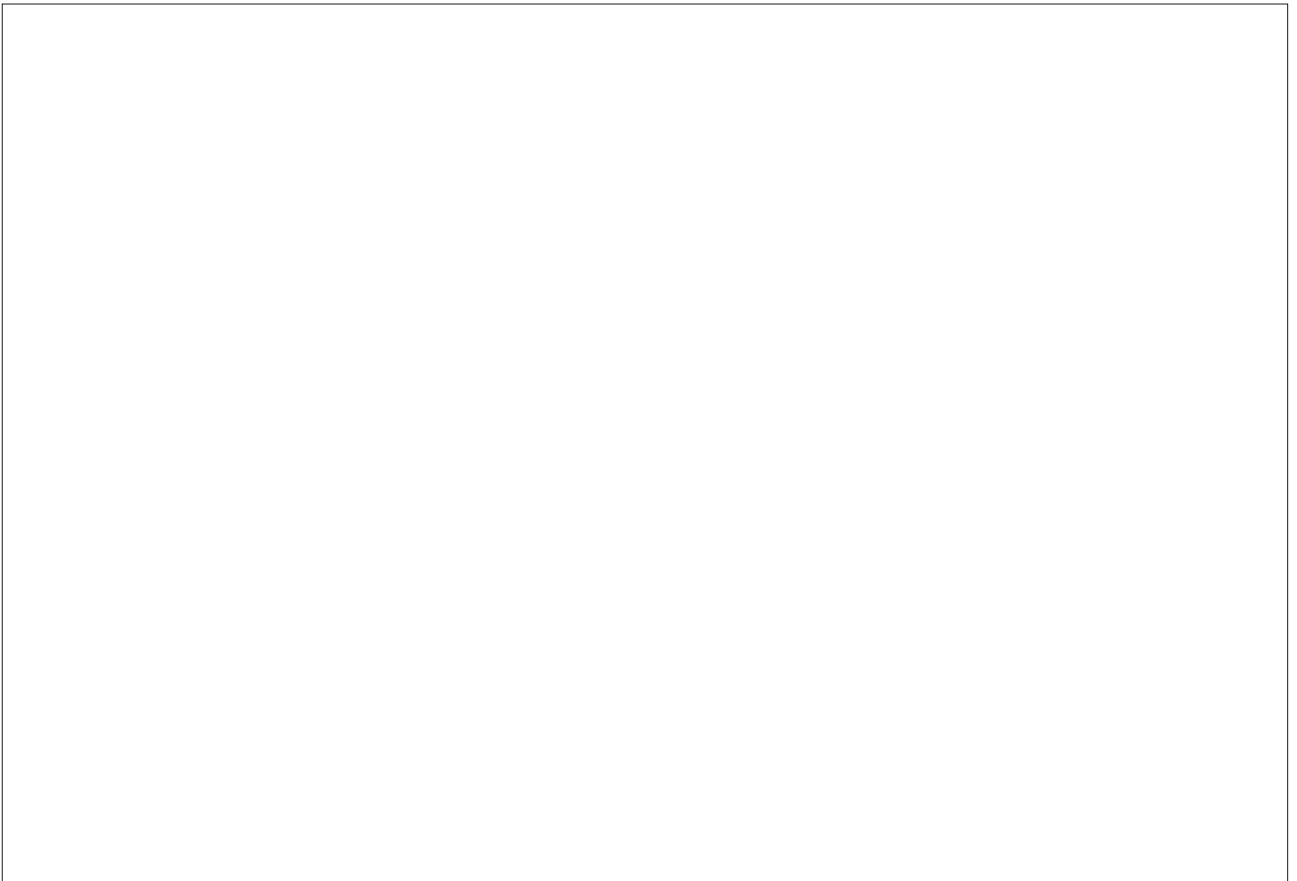
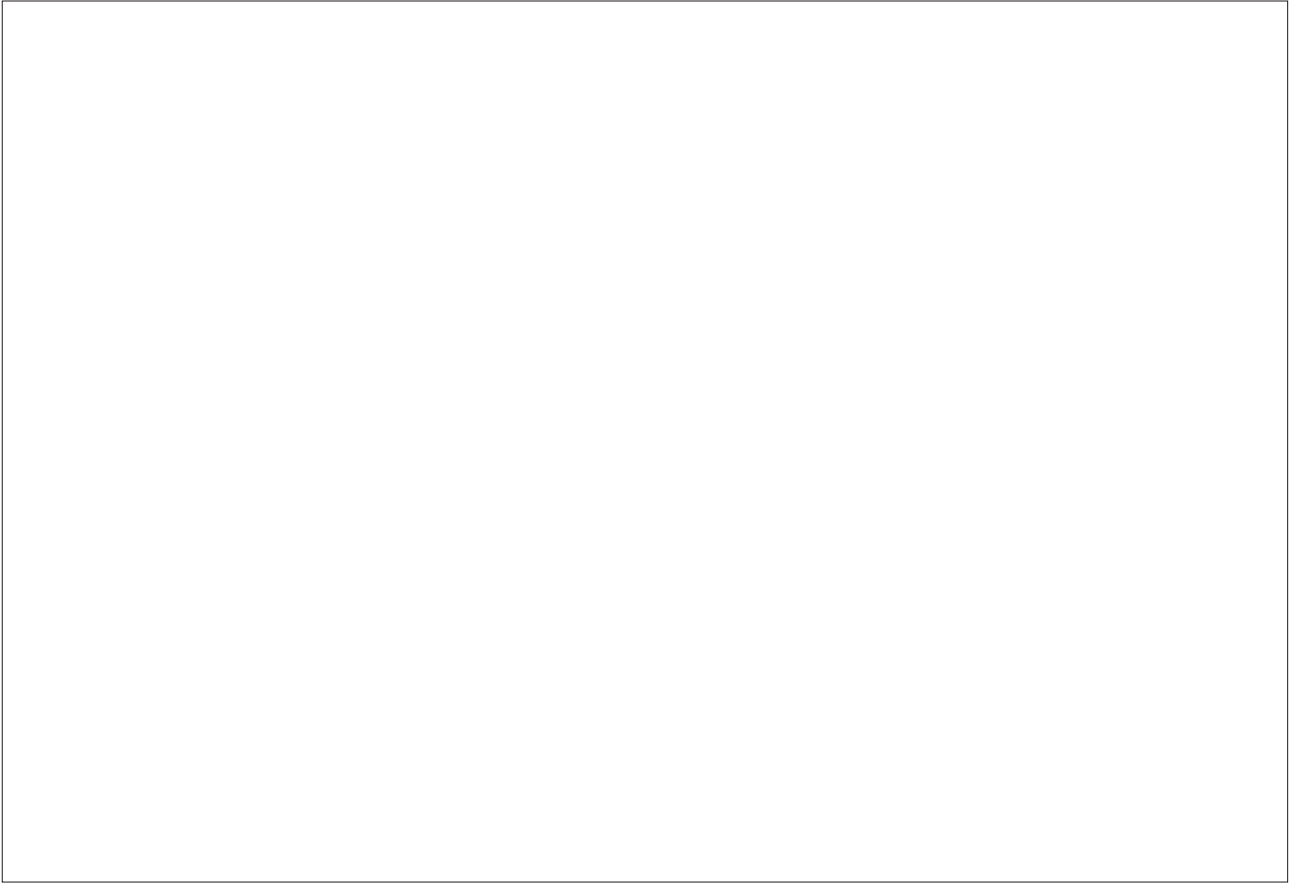


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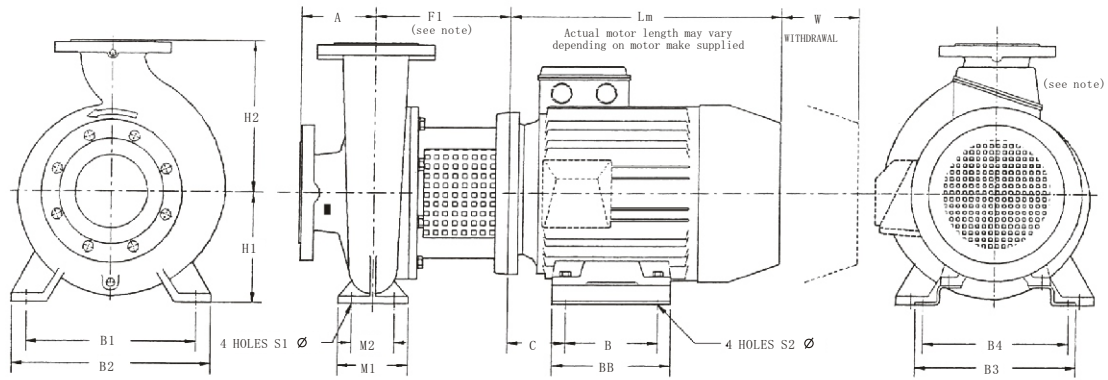


PAZ CLOSE COUPLED CENTRIFUGAL PUMPS





PAZ CLOSE COUPLED CENTRIFUGAL PUMPS



Pump Dimensions

PUMP MODEL	MOTOR FRAME	FLANGES IN	OUT	PUMP DIMENSIONS											MOTOR DIMENSIONS		
				A	F1	H1	H2	B1	B2	M1	M2	W	S1	B3	B4	Lm	B
32-13	0.75/2	D80	50 32	80	170	112	140	140	190	100	70	100	14	207	189	345	
32-13	1.1/2	D80	50 32	80	170	112	140	140	190	100	70	100	14	207	189	345	
32-13	1.5/2	D90S	50 32	80	170	112	140	140	190	100	70	100	14	222	204	260	
32-13	2.2/2	D90L	50 32	80	170	112	140	140	190	100	70	100	14	222	204	285	
32-16	3.0/2	D100L	50 32	80	169	132	160	190	240	100	70	100	14	264	244	320	
32-16	4.0/2	D112M	50 32	80	169	132	160	190	240	100	70	100	14	294	274	335	
32-16	5.5/2	D132S	50 32	80	169	132	160	190	240	100	70	100	14	294	274	385	
32-20	5.5/2	D132S	50 32	80	169	160	180	190	240	100	70	100	14	320	300	385	
32-20	7.5/2	D132S	50 32	80	169	160	180	190	240	100	70	100	14	320	300	385	
32-20	11.0/2	D160M	50 32	80	169	160	180	190	240	100	70	100	14	320	300	510	
32-26	11.0/2	D160M	50 32	100	212	180	225	250	320	125	95	120	14	384	354	510	
32-26	15.0/2	D160M	50 32	100	212	180	225	250	320	125	95	120	14	384	354	510	
32-26	18.5/2	D160L	50 32	100	212	180	225	250	320	125	95	120	14	384	354	555	
40-13	1.5/2	D90S	65 40	80	170	112	140	160	210	100	70	100	14	222	204	260	
40-13	2.2/2	D90L	65 40	80	170	112	140	160	210	100	70	100	14	222	204	285	
40-13	3.0/2	D100L	65 40	80	150	112	140	160	210	100	70	100	14	264	244	320	
40-13	4.0/2	D112M	65 40	80	150	112	140	160	210	100	70	100	14	294	284	335	
40-16	4.0/2	D112M	65 40	80	169	132	160	190	240	100	70	100	14	294	284	335	
40-16	5.5/2	D132S	65 40	80	169	132	160	190	240	100	70	100	14	260	216	385	
40-16	7.5/2	D132S2	65 40	80	169	132	160	190	240	100	70	100	14	320	300	385	
40-20	7.5/2	D132S2	65 40	100	165	160	180	212	265	100	70	100	14	320	300	385	
40-20	11.0/2	D160M	65 40	100	205	160	180	212	265	100	70	100	14	384	354	510	
40-26	15.0/2	D160M	65 40	100	212	180	225	250	320	125	95	120	14	384	354	510	
40-26	18.5/2	D160L	65 40	100	212	180	225	250	320	125	95	120	14	384	354	555	
40-26	22.0/2	D180M	65 40	100	212	180	225	250	320	125	95	120	14	407	385	560	
40-32	18.5/2	D160L	65 40	125	250	200	250	280	345	125	95	140	14	384	354	555	
40-32	22.0/2	D180M	65 40	125	250	200	250	280	345	125	95	140	14	407	383	560	
50-13	3.0/2	D100L	65 50	100	150	132	160	190	240	100	70	100	14	264	244	320	
50-13	4.0/2	D112M	65 50	100	150	132	160	190	240	100	70	100	14	294	274	335	
50-13	5.5/2	D132S	65 50	100	170	132	160	190	240	100	70	100	14	320	300	385	
50-13	7.5/2	D132S	65 50	100	170	132	160	190	240	100	70	100	14	320	200	385	
50-16	7.5/2	D132S	65 50	100	169	160	180	212	265	100	70	100	14	320	300	385	
50-16	11.0/2	D160M	65 50	100	209	160	180	212	265	100	70	100	14	384	354	510	
50-16	15/2	D160M	65 50	100	209	160	180	212	265	100	70	100	14	384	354	510	

Pump Dimensions

PUMP MODEL	MOTOR FRAME	FLANGES IN OUT	PUMP DIMENSIONS									MOTOR DIMENSIONS							
			A	F1	H1	H2	B1	B2	M1	M2	W	S1	B3	B4	Lm	B	BB	C	S2
50-20	15.0/2	D160M	65	50	100	211	160	200	212	265	100	70	100	14	384	354	510		
50-20	18.5/2	D160L	65	50	100	211	160	200	212	265	100	70	100	14	384	354	555		
50-26	22.0/2	D180M	65	50	100	212	180	225	250	320	125	95	120	14	407	383	560		
50-32	30.0/2	D200L	65	50	125	250	225	280	280	345	125	95	140	14	529	479	660		
50-32	37.0/2	D200L	65	50	125	250	225	280	280	345	125	95	140	14	529	479	660		
50-32	45.0/2	D225M	65	50	125	250	225	280	280	345	125	95	140	14	529	479	705		
65-13	5.5/2	D132S	80	65	100	170	160	180	212	280	125	95	100	14	320	300	384		
65-13	7.5/2	D132S	80	65	100	170	160	180	212	280	125	95	100	14	320	300	384		
65-16	11.0/2	D160M	80	65	100	209	160	200	212	280	125	95	100	14	384	354	510		
65-16	15.0/2	D160M	80	65	100	209	160	200	212	280	125	95	100	14	384	354	510		
65-16	18.5/2	D160L	80	65	100	209	160	200	212	280	125	95	100	14	384	354	555		
65-16	22.0/2	D180M	80	65	100	209	180	200	212	280	125	95	100	14	407	383	560		
65-20	18.5/2	D160L	80	65	100	209	180	225	250	320	125	95	100	14	384	354	555		
65-20	22.0/2	D180M	80	65	100	209	180	225	250	320	125	95	100	14	407	383	560		
65-20	30.0/2	D200L	80	65	100	209	180	225	250	320	125	95	100	14	407	383	660		
65-26	30.0/2	D200L	80	65	100	210	200	250	280	360	160	120	100	18	407	383	660		
65-26	37.0/2	D200L	80	65	100	210	200	250	280	360	160	120	100	18	407	383	660		
65-26	45.0/2	D225M	80	65	100	210	225	250	280	360	160	120	100	18	407	383	705		
80-16	11.0/2	D160M	100	80	125	207	180	225	250	320	125	95	100	14	384	354	510		
80-16	15.0/2	D160M	100	80	125	207	180	225	250	320	125	95	100	14	384	354	510		
80-16	18.5/2	D160L	100	80	125	207	180	225	250	320	125	95	100	14	384	354	555		
80-16	22.0/2	D180M	100	80	125	167	180	225	250	320	125	95	100	14	407	383	560		
80-16	30.0/2	D200L	100	80	125	167	180	225	250	320	125	95	100	14	407	383	660		
80-20	30.0/2	D200L	100	80	125	226	200	250	280	345	125	95	120	14	407	383	660		
80-20	37.0/2	D200L	100	80	125	226	200	250	280	345	125	95	120	14	407	383	660		
80-20	45.0/2	D225M	100	80	125	226	225	250	280	345	125	95	120	14	407	383	705		
100-16	18.5/2	D160L	125	100	125	255	200	250	280	360	160	120	140	18	384	354	555	2	
100-16	22.0/2	D180M	125	100	125	255	200	250	280	360	160	120	140	18	407	383	560	24	
100-16	30.0/2	D200L	125	100	125	255	200	250	280	360	160	120	140	18	407	383	660		
100-20	30.0/2	D200L	125	100	125	226	200	280	280	360	160	120	140	18	407	383	660	3	
100-20	37.0/2	D200L	125	100	125	226	200	280	280	360	160	120	140	18	407	383	660	3	
100-20	45.0/2	D225M	125	100	125	226	225	280	280	360	160	120	140	18	407	383	705	31	
32-13	0.55/4	D80	50	32	80	170	112	140	140	190	100	70	100	14	207	189	245		
32-16	0.55/4	D80	50	32	80	169	132	160	190	240	100	70	100	14	207	189	245		
32-20	0.75/4	D80	50	32	80	169	160	180	190	240	100	70	100	14	207	189	245		
32-20	1.1/4	D90S	50	32	80	169	160	180	190	240	100	70	100	14	222	204	260	1	
32-26	1.5/4	D90L	50	32	100	172	180	225	250	320	125	95	120	14	222	204	285	1	
32-26	2.2/4	D100L	50	32	100	172	180	225	250	320	125	95	120	14	264	244	320	1	
40-13	0.55/4	D80	65	40	80	170	112	140	160	210	100	70	100	14	207	189	245	1	
40-16	0.75/4	D80	65	40	80	169	132	160	190	240	100	70	100	14	207	189	245	1	
40-20	1.1/4	D90S	65	40	100	165	160	180	212	265	100	70	100	14	222	204	260	1	
40-20	1.5/4	D90L	65	40	100	165	160	180	212	265	100	70	100	14	222	204	285	1	
40-26	2.2/4	D100L	65	40	100	172	180	225	250	320	125	95	120	14	264	244	320	1	
40-26	3.0/4	D100L	65	40	100	172	180	225	250	320	125	95	120	14	264	244	320	1	
40-32	4.0/4	D112M	65	40	125	210	200	250	280	345	125	95	140	14	294	274	335	1	

Pump Dimensions

PUMP MODEL	MOTOR FRAME	FLANGES IN OUT	PUMP DIMENSIONS									MOTOR DIMENSIONS						
			A	F1	H1	H2	B1	B2	M1	M2	W	S1	B3	B4	Lm	B	BB	C
50-13	0.55/4	D80	65	50	100	170	132	160	190	240	100	70	100	14	207	189	245	1
50-13	0.75/4	D80	65	50	100	170	132	160	190	240	100	70	100	14	207	189	245	1
50-16	1.1/4	D90S	65	50	100	169	160	180	212	265	100	70	100	14	222	204	260	1
50-16	1.5/4	D90L	65	50	100	169	160	180	212	265	100	70	100	14	222	204	285	1
50-20	1.5/4	D90L	65	50	100	171	160	200	212	265	100	70	100	14	222	204	285	1
50-20	2.2/4	D100L	65	50	100	171	160	200	212	265	100	70	100	14	264	244	320	1
50-26	3.0/4	D100L	65	50	100	172	180	225	250	320	125	95	120	14	264	244	320	1
50-26	4.0/4	D112M	65	50	100	172	180	225	250	320	125	95	120	14	294	274	335	14
50-32	5.5/4	D132S	65	50	125	250	225	280	280	345	125	95	140	14	320	300	385	14
50-32	7.5/4	D132M	65	50	125	250	225	280	280	345	125	95	140	14	320	300	425	17
D																		
55-13	0.75/4	D80	80	65	100	170	160	180	212	280	125	95	100	14	207	189	245	1
55-13	1.1/4	90S	80	65	100	170	160	180	212	280	125	95	100	14	222	204	260	1
65-13	1.5/4	D90L	80	65	100	170	160	180	212	280	125	95	100	14	222	204	285	1
65-16	1.5/4/	D90L	80	65	100	169	160	200	212	280	125	95	100	14	222	204	285	1
65-16	2.2/4	D100L	80	65	100	169	160	200	212	280	125	95	100	14	264	244	320	14
65-20	3.0/4	D100L	80	65	100	169	180	225	250	320	125	95	100	14	264	244	320	14
65-20	4.0/4	D112M	80	65	100	169	180	225	250	320	125	95	100	14	294	274	335	14
65-26	5.5/4	D132S	80	65	100	170	200	250	280	360	160	120	100	18	320	300	385	14
65-26	7.5/4	D132M	80	65	100	170	200	250	280	360	160	120	100	18	320	300	425	17
65-32	7.5/4	D132M	80	65	125	235	225	280	315	400	160	120	100	18	320	300	425	17
65-32	11.0/4	D160M	80	65	125	265	225	280	315	400	160	120	100	18	384	354	510	21
80-16	1.5/4	D90L	100	80	125	167	180	225	250	320	125	95	100	14	222	204	285	14
80-16	2.2/4	D100L	100	80	125	167	180	225	250	320	125	95	100	14	264	244	320	14
80-16	3.0/4	D100L	100	80	125	167	180	225	250	320	125	95	100	14	264	244	320	14
80-20	4.0/4	D112M	100	80	125	186	180	250	280	345	125	95	120	14	294	274	335	14
80-20	5.5/4	D132S	100	80	125	186	180	250	280	345	125	95	120	14	320	300	385	14
80-20	7.5/4	D132M	100	80	125	186	180	250	280	345	125	95	120	14	320	300	425	17
80-26	7.5/4	D132M	100	80	125	170	200	280	315	400	160	120	120	18	320	300	425	17
80-26	11.0/4	D160M	100	80	125	210	200	280	315	400	160	120	120	18	384	354	510	21
80-32	11.0/4	D160M	100	80	125	250	250	315	315	400	160	120	120	18	384	354	510	21
80-32	15.0/4	D160L	100	80	125	250	250	315	315	400	160	120	120	18	384	354	555	25
80-40	18.5/4	D180M	100	80	125	255	280	355	340	440	160	120	120	18	407	383	560	24
80-40	22.0/4	D180L	100	80	125	255	280	355	340	440	160	120	120	18	437	394	600	27
80-40	30.0/4	D200L	100	80	125	255	280	355	340	440	160	120	120	18	529	479	660	30
D																		
100-16	2.2/4	D100L	125	100	125	225	200	250	280	360	160	120	140	18	264	244	320	14
100-16	3.0/4	D112M	125	100	125	225	200	250	280	360	160	120	140	18	294	274	335	14
100-20	4.0/4	D112M	125	100	125	186	200	280	280	360	160	120	120	18	294	274	335	14
100-20	5.5/4	D132S	125	100	125	186	200	280	280	360	160	120	120	18	320	300	385	14
100-20	7.5/4	D132M	125	100	125	186	200	280	280	360	160	120	120	18	320	300	425	17



Pump Dimensions

PUMP MODEL	MOTOR FRAME	FLANGES IN OUT	PUMP DIMENSIONS									MOTOR DIMENSIONS						
			A	F1	H1	H2	B1	B2	M1	M2	W	S1	B3	B4	Lm	B	BB	C
100-26	15/4	D160L	125	100	125	250	225	280	315	400	160	120	120	18	384	354	555	
100-32	18.5/4	D180M	125	100	125	255	250	315	315	400	160	120	120	18	407	383	560	2
125-20	11/4	D160M	150	125	140	250	250	315	315	400	160	120	100	18	384	354	510	2
125-26	22/4	D180L	150	125	140	255	250	315	315	400	160	120	120	18	437	394	600	
125-26	18.5/4	D180M	150	125	140	255	250	355	315	400	160	120	120	18	407	383	560	2
125-32	30/4	D200L	150	125	140	255	280	355	400	500	200	150	120	23	529	479	660	
125-32	22/4	D180L	150	125	140	255	280	355	400	500	200	150	120	23	437	394	600	
150-20	18.5/4	D180M	200	150	160	255	280	400	450	550	200	150	120	23	407	383	560	2
150-26	30/4	D200L	200	150	160	255	280	400	450	550	200	150	120	23	529	479	660	