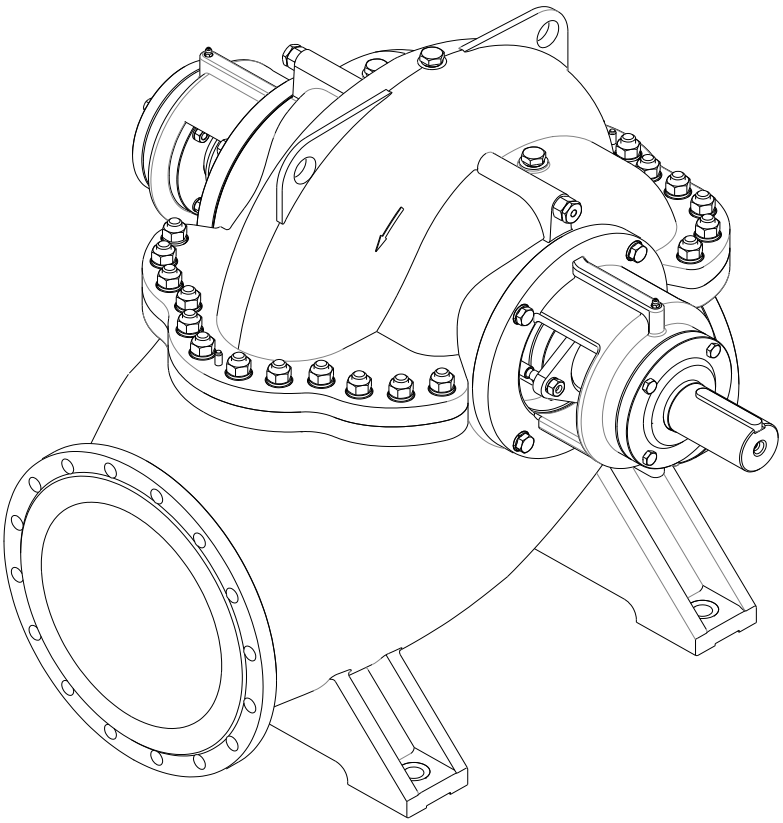
MZT PUMPI

Double suction axially split case pumps series D

Technical catalog



Document No. 4HK.D.R001.EN

CONTENTS:

1. GENERAL INFORMATION

1.1. Introduction

Horizontal split case double Suction centrifugal pumps series D are engineered to pump clean water or low viscosity clean liquids at moderate heads more economically than any other type of pump.
Precision balancing of all factors in their design provides mechanical dependability, efficient operation and low cost maintenance.
Axial split casing for horizontal or vertical installation fitted with a double suction impeller. A comprehensive range of pump sizes and different impeller options maximize the operating economy.
The double-inlet split casing centrifugal pumps range provides reliable performance for applications in district heating systems, thermal power plants, water transfer, energy sector, fire fighting, etc.

1.2. Application

For liquid transfer and circulation of cold clean or slightly polluted water
Typical applications in:

- Municipal water supply
- Power plants
- Industrial plants
- Boiler feed and condensate systems
- Irrigation and dewatering
- General purposes

Capacity:	up to 10.000 [m^3/h]
Differential head:	up to 140 [m]
Design pressure	up to 16 [bar]
Speed:	up to 1800 [rpm]
Temperature range:	up to 120 [^oC]
Ambient temperature:	up to 45 [^oC]

**Oversize pumps available on request*

1.3. Pump type design

Single stage, medium pressure double inlet centrifugal pump with two flanged bearing frame, suitable for flexible coupling to electric motor or internal combustion engine as a driver.
Ample dimensioned shaft guided through roller bearings and hardened shaft sleeve.
Fully-enclosed single piece casting, double inlet impeller practically doesn't produce any axial trust.
High operating reliability due to maintenance and service optimized parts.
Axially split volute casing means easy maintenance without pipe disconnects.

1.4. Pump type key (Designation)

Example: D 30 – 20 – 31

Pump type
Suction diameter DN [cm]
Discharge diameter DN [cm]
Impeller diameter [cm]

2. TECHNICAL DETAILS

2.1. Materials

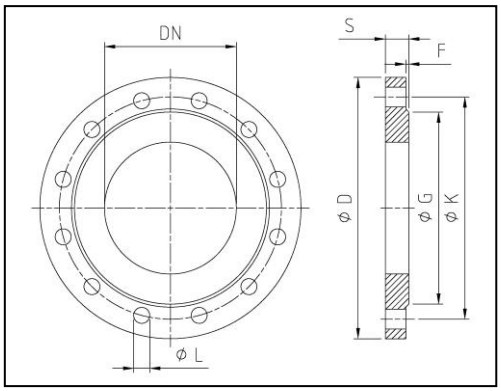
	Pump Part	Material
1	Volute casing	Cast iron / Nodular cast iron / Bronze / Steel / Stainless steel / Duplex
2	Impeller	Cast iron / Nodular cast iron / Bronze / Steel / Stainless steel / Duplex
3	Casing cover	Cast iron / Bronze / Steel / Stainless steel
4	Shaft	Stainless Steel
5	Sleeves	Stainless steel
6	Impeller nut	Steel / Stainless steel
7	Wearing rings	Cast iron / Nodular cast iron / Bronze / Steel / Stainless steel / Duplex
8	Base	Steel welded construction
9	Bearing bracket	Cast iron

2.2. Flange connections

Suction (axial) and discharge (top) flanges are in accordance with EN 1092-1 PN16

SUCTION - PN10	FLANGES MATING DIMENSIONS: EN 1092-2							
DN	D	K	G	F	S	L	HOLES / BOLTS	
							NUMBER	THREAD
200	340	295	268	3	26	23	8	M20
250	395	350	320	3	28	23	12	M20
300	445	400	370	4	28	23	12	M20
350	505	460	430	4	30	23	16	M20
400	565	515	482	4	32	27	16	M24
450	615	565	550	4	34	27	20	M24
500	670	620	585	4	34	27	20	M24
600	780	725	685	5	36	30	20	M27
700	895	840	800	5	40	30	24	M27
800	1015	950	905	5	44	33	24	M30

DISCHARGE - PN16	FLANGES MATING DIMENSIONS: EN 1092-2							
DN	D	K	G	F	S	L	HOLES / BOLTS	
							NUMBER	THREAD
150	285	240	212	3	26	23	8	M20
200	340	295	268	3	30	23	12	M20
250	405	355	320	3	32	28	12	M24
300	460	410	378	4	32	28	12	M24
350	520	470	438	4	36	28	16	M24
400	580	525	490	4	38	31	16	M27
450	640	585	550	4	40	31	20	M27
500	715	650	610	4	42	34	20	M30
600	840	770	725	5	48	37	20	M33
700	910	840	793	5	54	37	24	M33
800	1025	950	900	5	58	41	24	M36



2.3. Direction of rotation

Direction of rotation is clock vice viewed from the motor side.
Direction of air cooling of the electric motor must be toward the pump side.

2.4. Balancing

Axial thrust is completely balanced by back to back impeller design.

2.5. Shaft Sealing

The shaft sealing could be arranged by soft packing, single or double mechanical seal.
In soft packing arrangements the shaft is protected by replaceable, stainless sleeve while the stuffing box can furnished with or without lantern ring.
Single mechanical seals are according EN 12756 (DIN 24960).
On special demand, pumps could be furnished with mechanical seal in accordance with the specific characteristics of the liquid and the operating conditions.

2.7. Flange forces and Moments

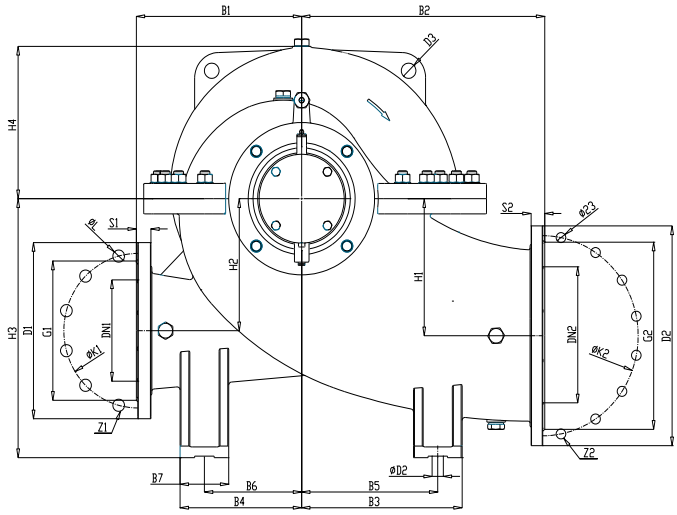
D pumps are designed for handing forces and moments in accordance with ISO 5199

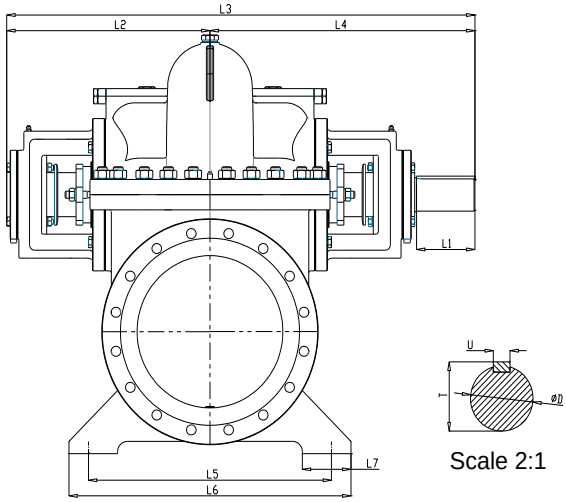
2.8. Testing and Guarantees

Each pump before delivery is tested:

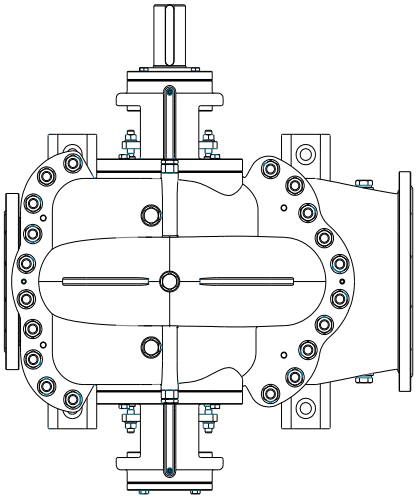
- Hydrostatic test - 150 % over nominal pressure
- Performance tests - in accordance with ISO 9906

3. DIMENSIONS - PUMP BARE SHAFT OUTLINE DRAWING



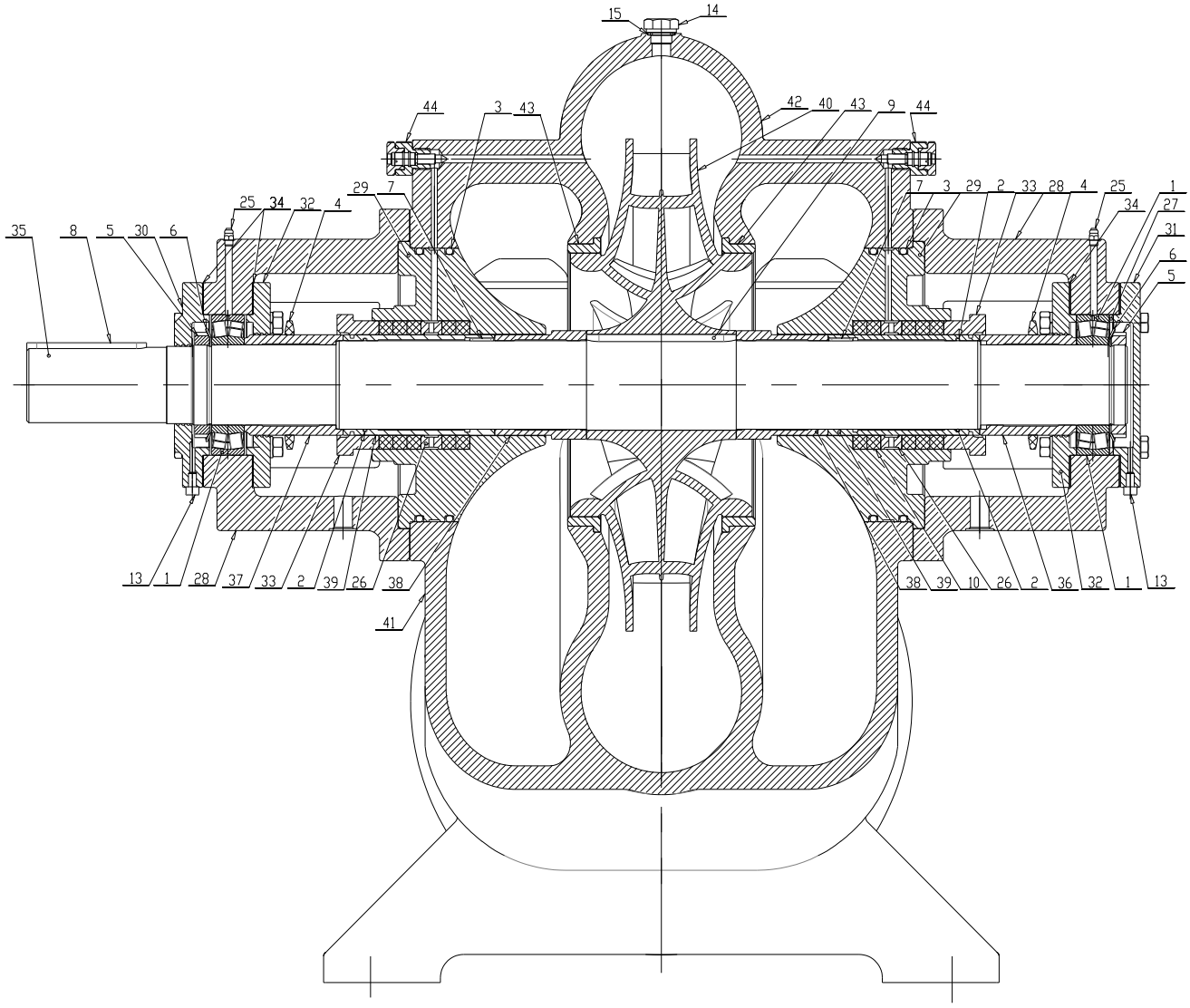


Scale 2:1



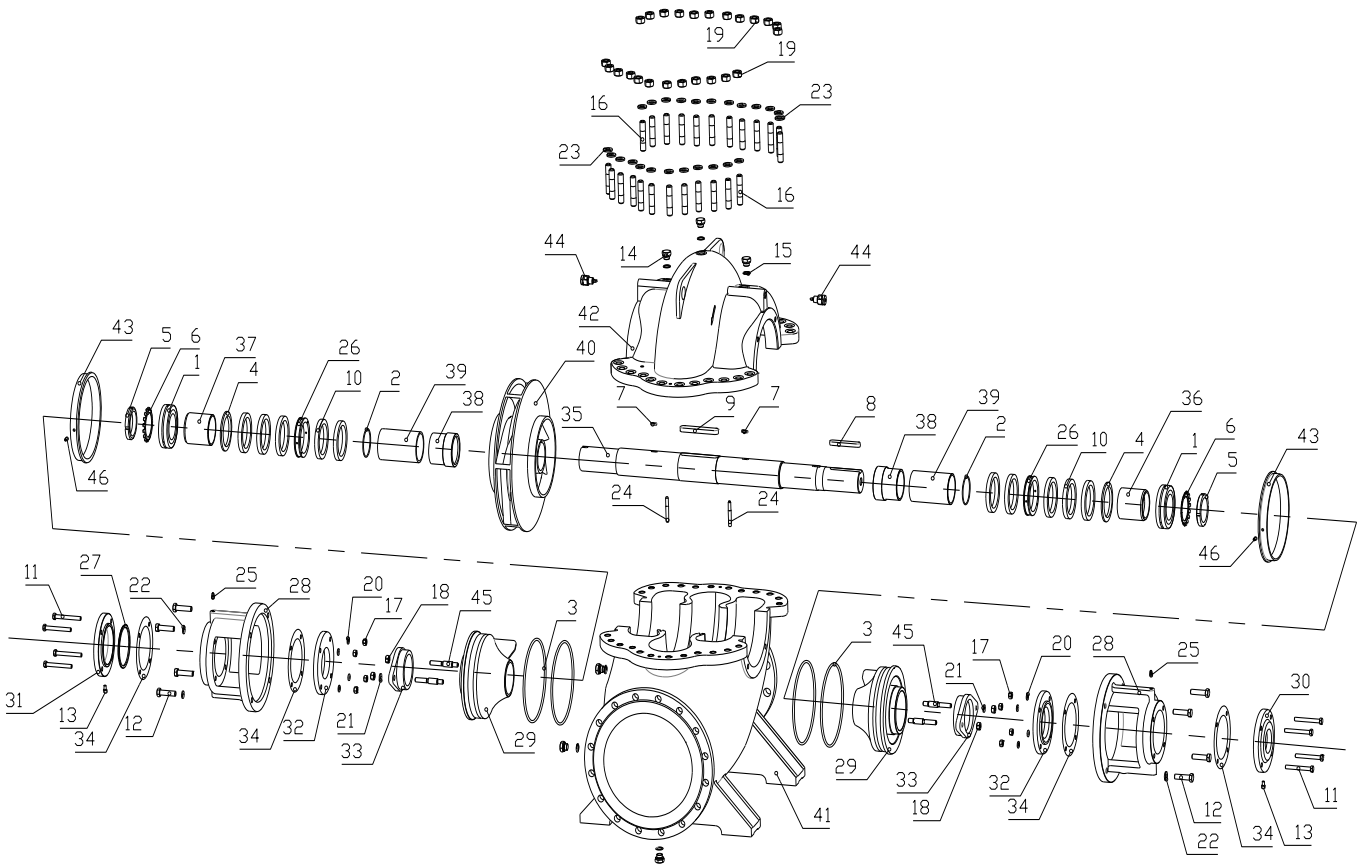
SIZE	Dimensions (mm)																									Weight
	DN1	DN2	L1	L2	L3	L4	L5	L6	L7	B1	B2	B3	B4	B5	B6	B7	H1	H2	H3	H4	D	D2	D3	U	T	S	[kg]
D 20-15-28	200	150	79.8	253.37	592.52	339.2	332.5	385.7	66.5	332.5	226	219.5	166.3	192.9	139.7	66.5	179.6	173	332.5	200	48	24	30	14	51.5	24	205
D 20-15-32	200	150	80	344	774	430	336	464	80	400	300	240	240	200	200	80	176	200	360	342	38	24	24	10	41.0	20	243
D 25-20-35	250	200	140	318	744	426	418	484	84	418	284	276	209	242	175	84	225	217	418	251	60	24	25	18	64.0	20	355
D 25-20-40	250	200	110	430	967	537	420	580	100	500	375	300	300	250	250	100	220	250	450	427	48	24	30	14	51.5	24	361
D 30-20-31	300	200	110	380	880	500	500	580	100	500	300	330	210	290	170	100	250	215	500	250	55	24	30	16	59.0	24	430
D 30-20-42	300	200	120	381	891	510	500	580	100	500	340	330	250	290	210	100	270	260	500	300	75	24	30	20	79.5	24	500
D 30-25-27	300	250	80	353	770	417	375	450	113	450	281	225	225	169	169	113	259	248	454	278	38	24	30	10	41.0	20	440
D 30-25-48	300	250	140	516	1160	644	504	696	120	600	450	360	360	300	300	120	264	300	540	512	60	29	36	18	64.0	29	549
D 35-25-36	350	250	140	433	1003	570	570	661	114	570	342	376	239	331	194	114	285	245	570	285	60	28	34	18	64.0	27	602
D 35-25-49	350	250	170	446	1042	597	585	679	117	585	398	386	293	339	246	117	316	304	585	351	90	28	35	24	95.3	28	801
D 35-30-30	350	300	73	405	883	478	430	516	129	516	323	258	258	194	194	129	297	284	520	318	48	18	30	14	51.5	17	560
D 35-30-56	350	300	140	602	1354	752	588	812	140	700	525	420	420	350	350	140	308	350	630	598	75	34	42	20	79.5	34	991
D 40-25-41	400	250	140	498	1153	655	655	760	131	655	393	432	275	380	223	131	328	282	655	328	75	31	39	20	79.5	31	939
D 40-30-35	400	300	110	471	1027	556	500	600	150	600	375	300	300	225	225	150	345	330	605	370	55	22	35	16	59.0	20	945
D 40-30-56	400	300	210	509	1189	681	668	774	134	668	454	441	334	387	280	134	360	347	668	401	105	32	40	28	109.4	32	1190
D 40-35-64	400	350	170	688	1547	859	672	928	160	800	600	480	480	400	400	160	352	400	720	683	80	38	48	22	85.0	38	1495
D 45-30-46	450	300	170	555	1285	730	730	847	146	730	438	482	307	423	248	146	365	314	730	365	80	35	44	22	85.0	35	1273
D 45-35-39	450	350	140	528	1150	623	560	672	168	672	420	336	336	252	252	168	386	370	678	414	60	24	39	18	64.0	22	1295
D 45-35-63	450	350	210	572	1337	765	750	870	150	750	510	495	375	435	315	150	405	390	750	450	105	36	45	28	109.4	36	2112
D 50-35-53	500	350	170	622	1441	819	819	950	164	819	491	541	344	475	278	164	410	352	819	410	90	39	49	24	95.3	39	1908
D 50-40-44	500	400	140	589	1284	695	625	750	188	750	469	375	375	281	281	188	431	413	756	463	65	27	40	18	69.0	25	1654
D 50-40-70	500	400	250	636	1486	851	834	967	167	834	567	550	417	484	350	167	450	434	834	500	125	40	50	32	131.1	40	2874
D 60-40-60	600	400	210	724	1676	953	953	1105	191	953	572	629	400	552	324	191	476	410	953	476	105	46	57	28	109.4	40	2707
D 60-45-53	600	450	140	707	1541	834	750	900	225	900	563	450	450	338	338	225	518	495	908	555	75	33	55	20	79.5	30	2693
D 60-45-77	600	450	250	701	1639	938	920	1067	184	920	626	607	460	534	386	184	497	478	920	552	145	44	55	36	151.9	40	3300
D 60-50-85	600	500	290	762	1782	1020	1000	1160	200	1000	680	660	500	580	420	200	540	520	1000	600	145	48	60	36	151.9	40	4902
D 70-50-74	700	500	250	885	2050	1165	1165	1351	233	1165	699	769	489	676	396	233	583	501	1165	583	125	56	70	32	131.1	40	4732
D 70-60-62	700	600	170	824	1797	973	875	1050	263	1050	656	525	525	394	394	263	604	578	1059	648	90	37	60	24	95.3	35	4014
D 80-60-71	800	600	170	942	2054	1112	1000	1200	300	1200	750	600	600	450	450	300	690	660	1210	740	90	42	70	24	95.3	40	5600
D 80-60-84	800	600	290	1007	2332	1325	1325	1537	265	1325	795	875	557	769	451	265	663	570	1325	663	145	64	80	36	151.9	40	6800

4. ASSEMBLY DRAWING WITH PART LIST



1	Bearings	13	Screw	25	Greaser	37	Sleeve
2	O-ring	14	Sealing screw	26	Lantern ring	38	Sleeve
3	O-ring	15	Washer	27	Ring	39	Sleeve
4	Rubber ring	16	Two-fold Screw	28	Console	40	Impeller
5	Screw	17	Nut	29	Sealing box	41	Pump body
6	Washer	18	Nut	30	Cover	42	Pump cover
7	Key	19	Nut	31	Cover	43	Sealing ring
8	Key	20	Washer	32	Cover	44	Flow regulator
9	Key	21	Washer	33	Sleeve	45	Two-fold screw
10	Soft packing	22	Washer	34	Gasket	46	Pin
11	Screw	23	Washer	35	Shaft		
12	Screw	24	Pin	36	Sleeve		

5. PUMP EXPLODED VIEW



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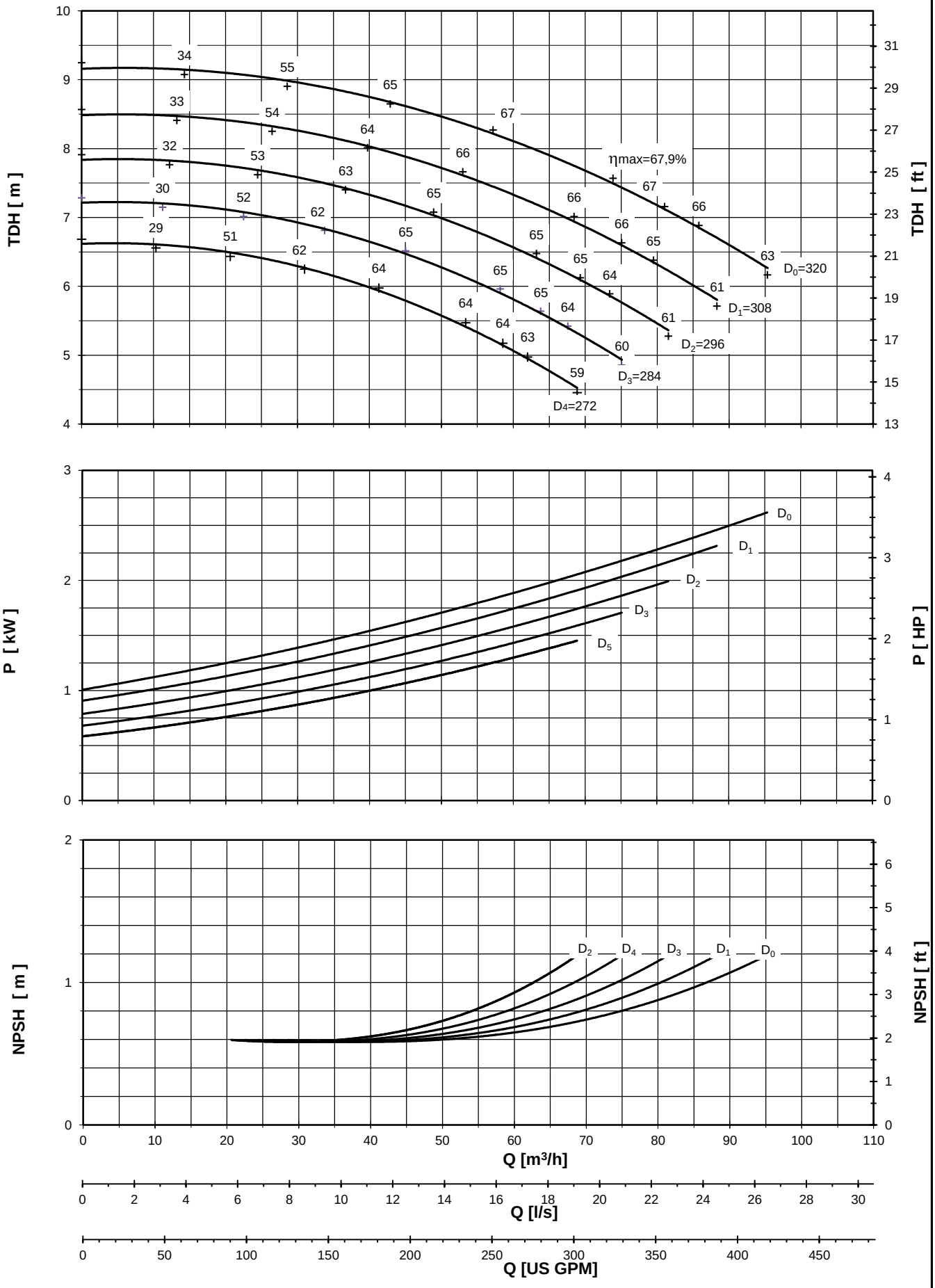
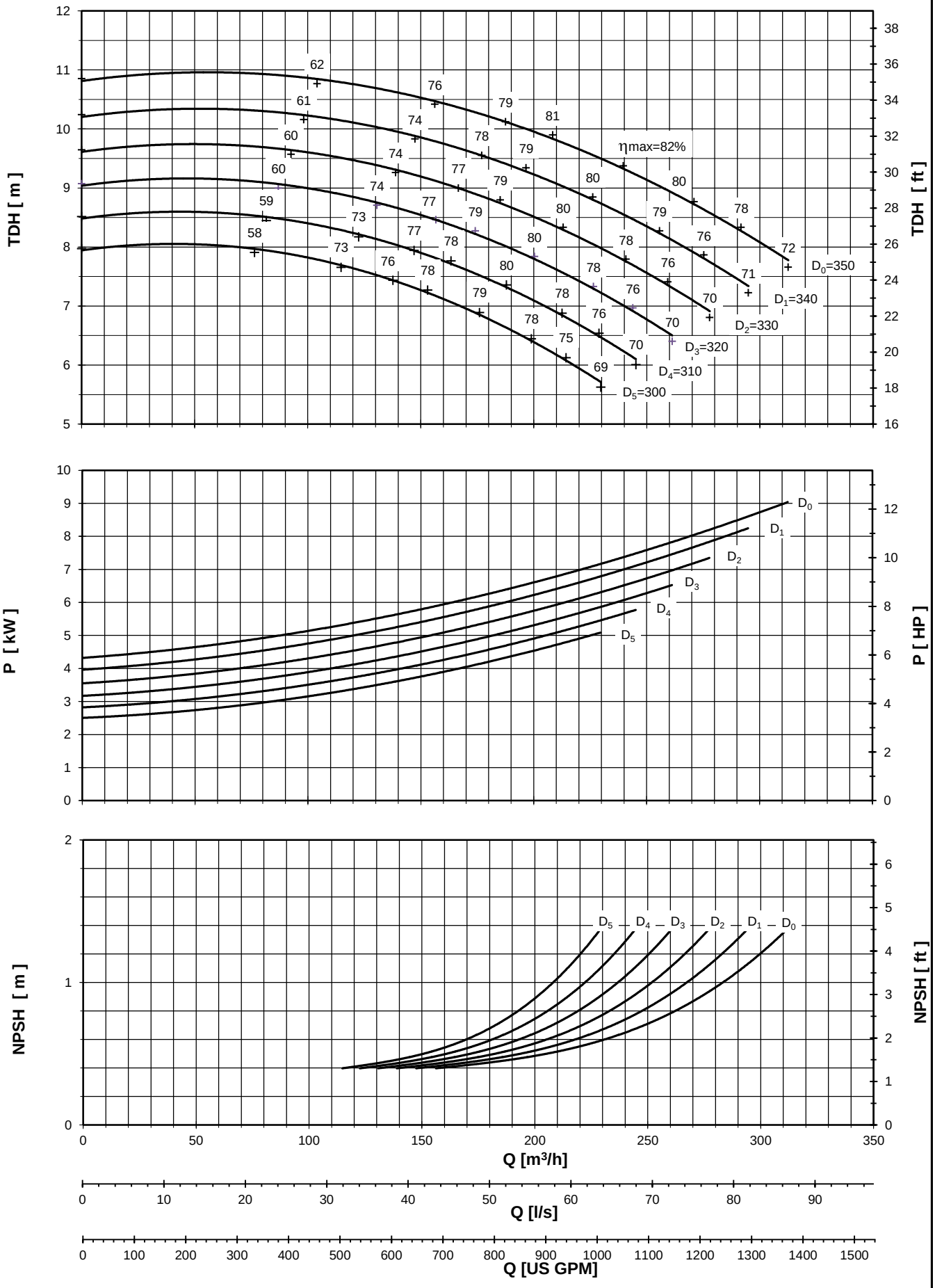
6. PERFORMANCE CURVES

MZT PUMPI	PUMP PERFORMANCE CURVES No. 4HD.0258.08.R01	PUMP TYPE D 20-15-32 750 [rpm]



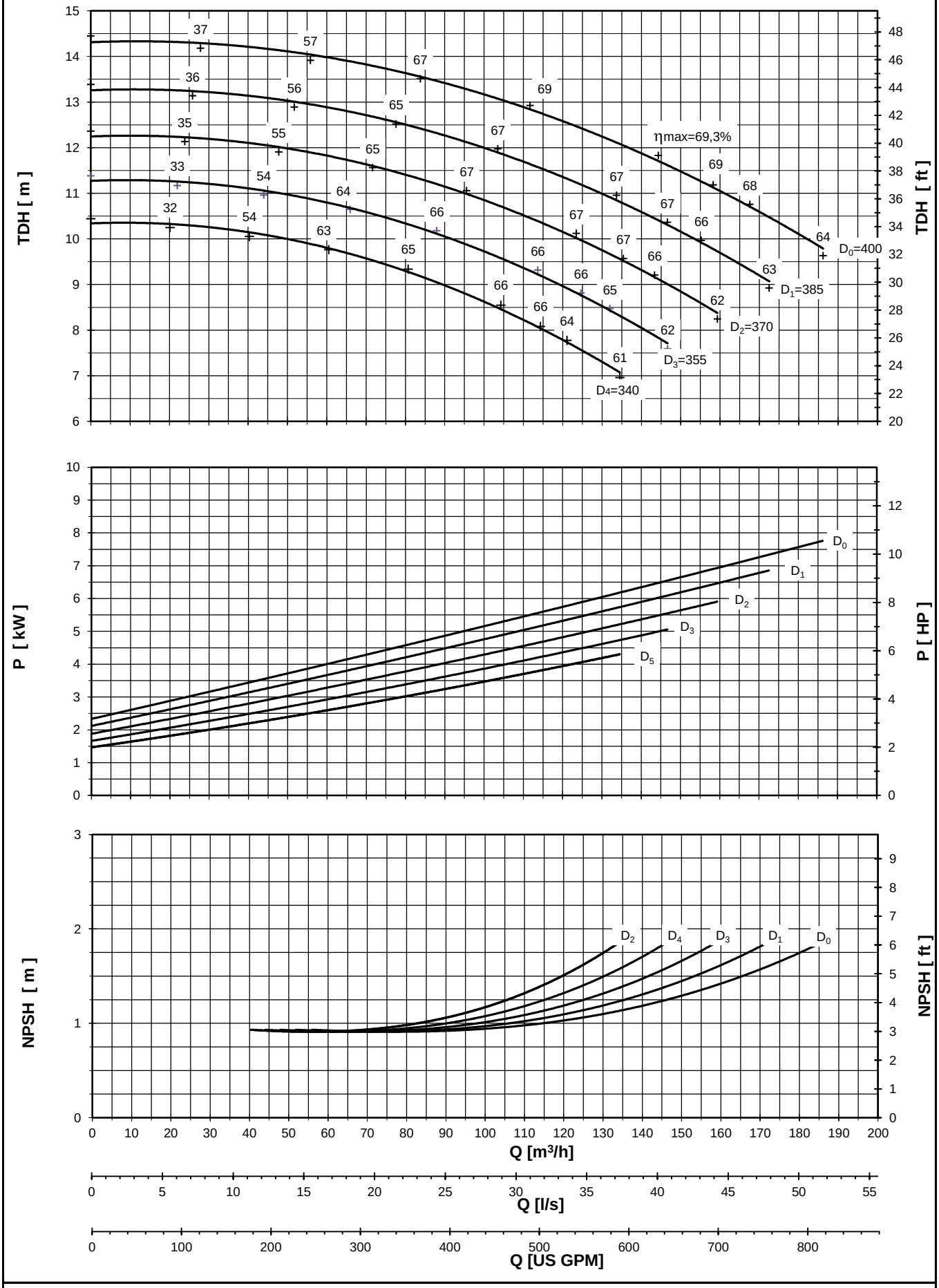
Performance curves are valid for clean cold water-kinematic viscosity 1 [mm^2/s], density 1000 [kg/m^3]. Methods and tolerances of presented performance curves are in accordance with ISO 9906 - Annex A

MZT PUMPI	PUMP PERFORMANCE CURVES No. 4HD.0244.08.R01	PUMP TYPE D 25-20-35 750 [rpm]



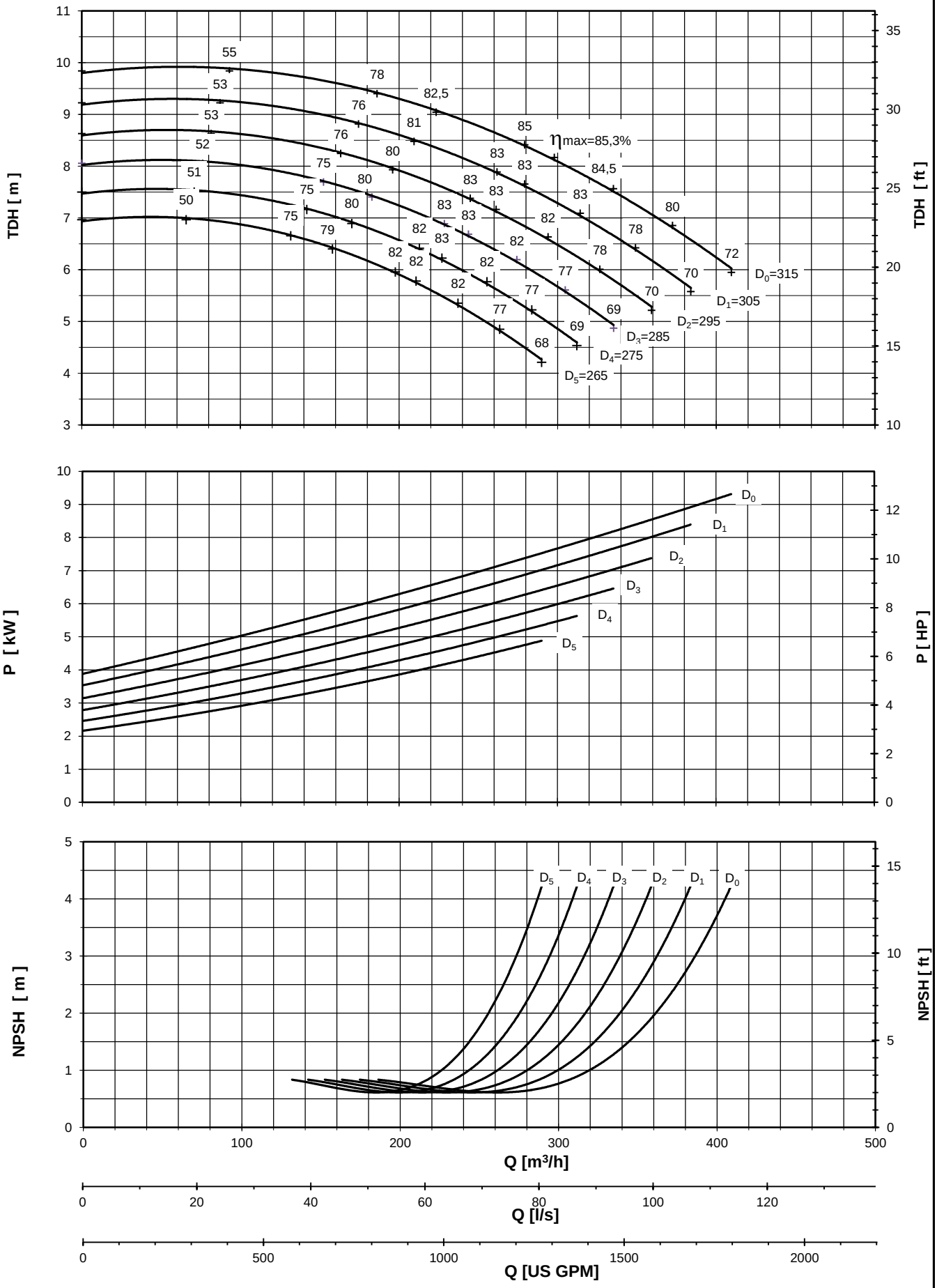
Performance curves are valid for clean cold water-kinematic viscosity 1 [mm^2/s], density 1000 [kg/m^3]. Methods and tolerances of presented performance curves are in accordance with ISO 9906 - Annex A

MZT PUMPI	PUMP PERFORMANCE CURVES No. 4HD.0259.08.R01	PUMP TYPE D 25-20-40 750 [rpm]



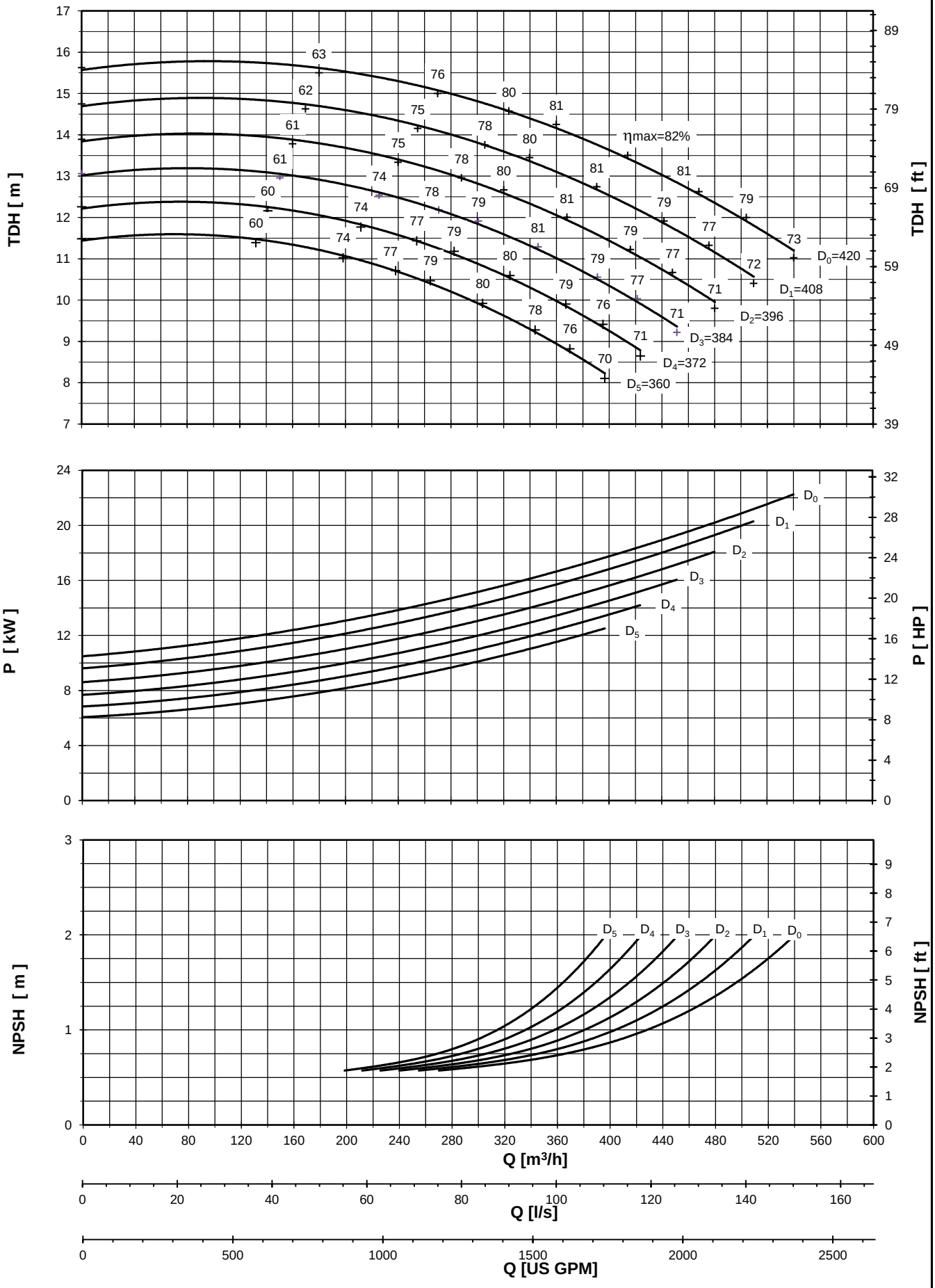
Performance curves are valid for clean cold water-kinematic viscosity 1 [mm^2/s], density 1000 [kg/m^3]. Methods and tolerances of presented performance curves are in accordance with ISO 9906 - Annex A

MZT PUMPI	PUMP PERFORMANCE CURVES No. 4HD.0219.08.R01	PUMP TYPE D 30-20-31 750 [rpm]



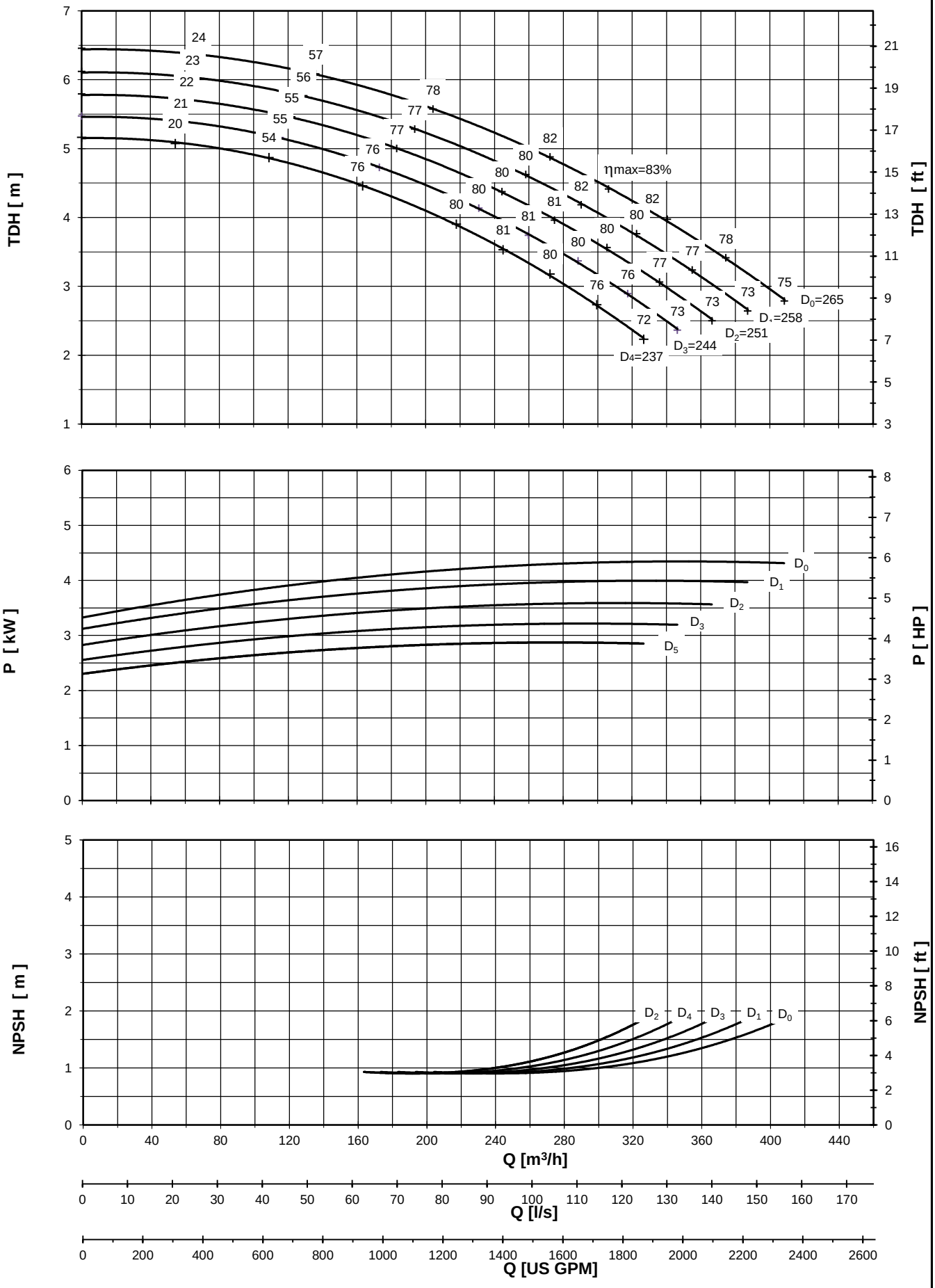
Performance curves are valid for clean cold water-kinematic viscosity 1 [mm^2/s], density 1000 [kg/m^3]. Methods and tolerances of presented performance curves are in accordance with ISO 9906 - Annex A

MZT PUMPI	PUMP PERFORMANCE CURVES No. 4HD.0232.08.R01	PUMP TYPE D 30-20-42 750 [rpm]



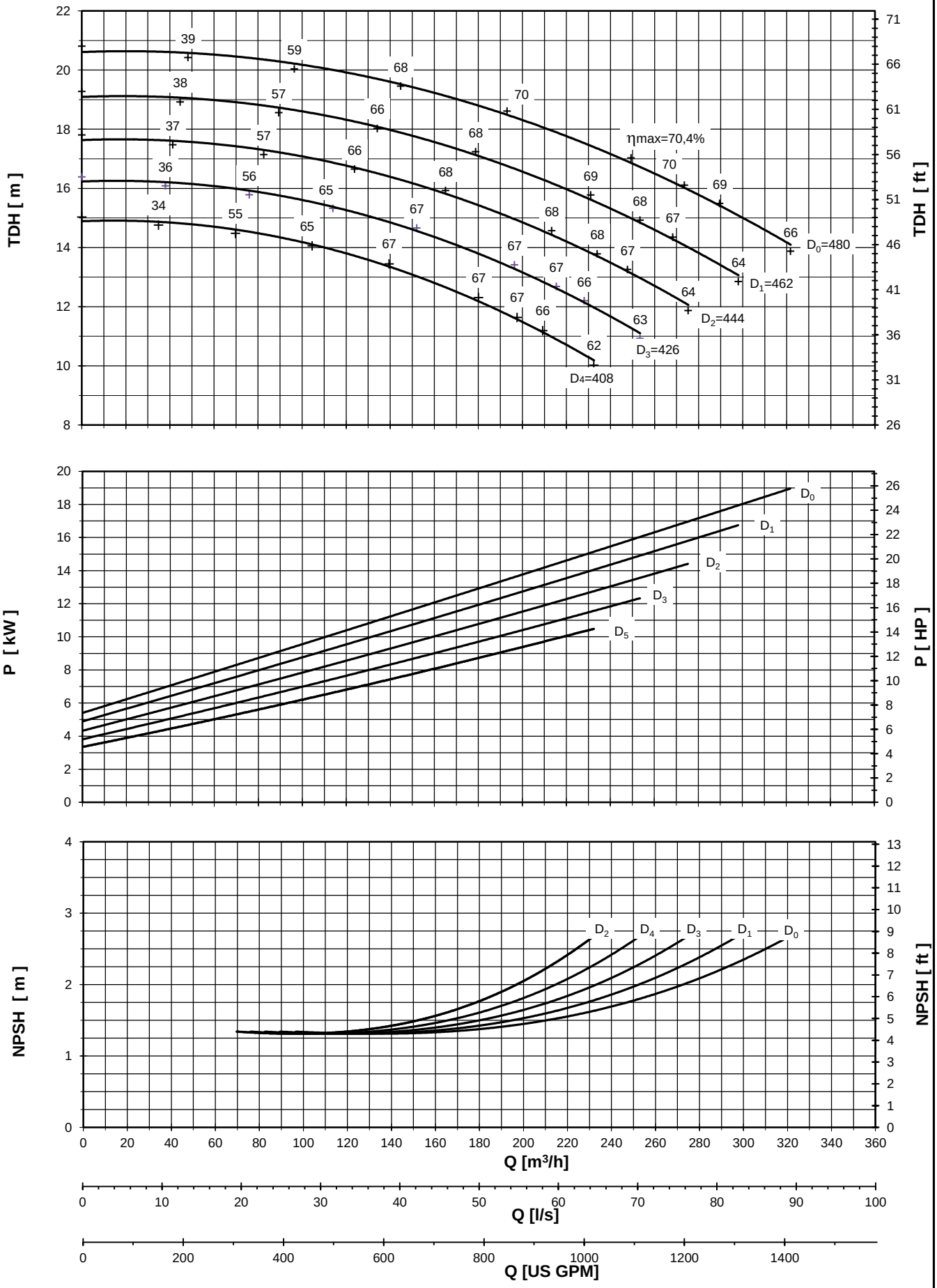
Performance curves are valid for clean cold water-kinematic viscosity 1 [mm^2/s], density 1000 [kg/m^3]. Methods and tolerances of presented performance curves are in accordance with ISO 9906 - Annex A

MZT PUMPI	PUMP PERFORMANCE CURVES No. 4HD.0252.08.R01	PUMP TYPE D 30-25-27 750 [rpm]



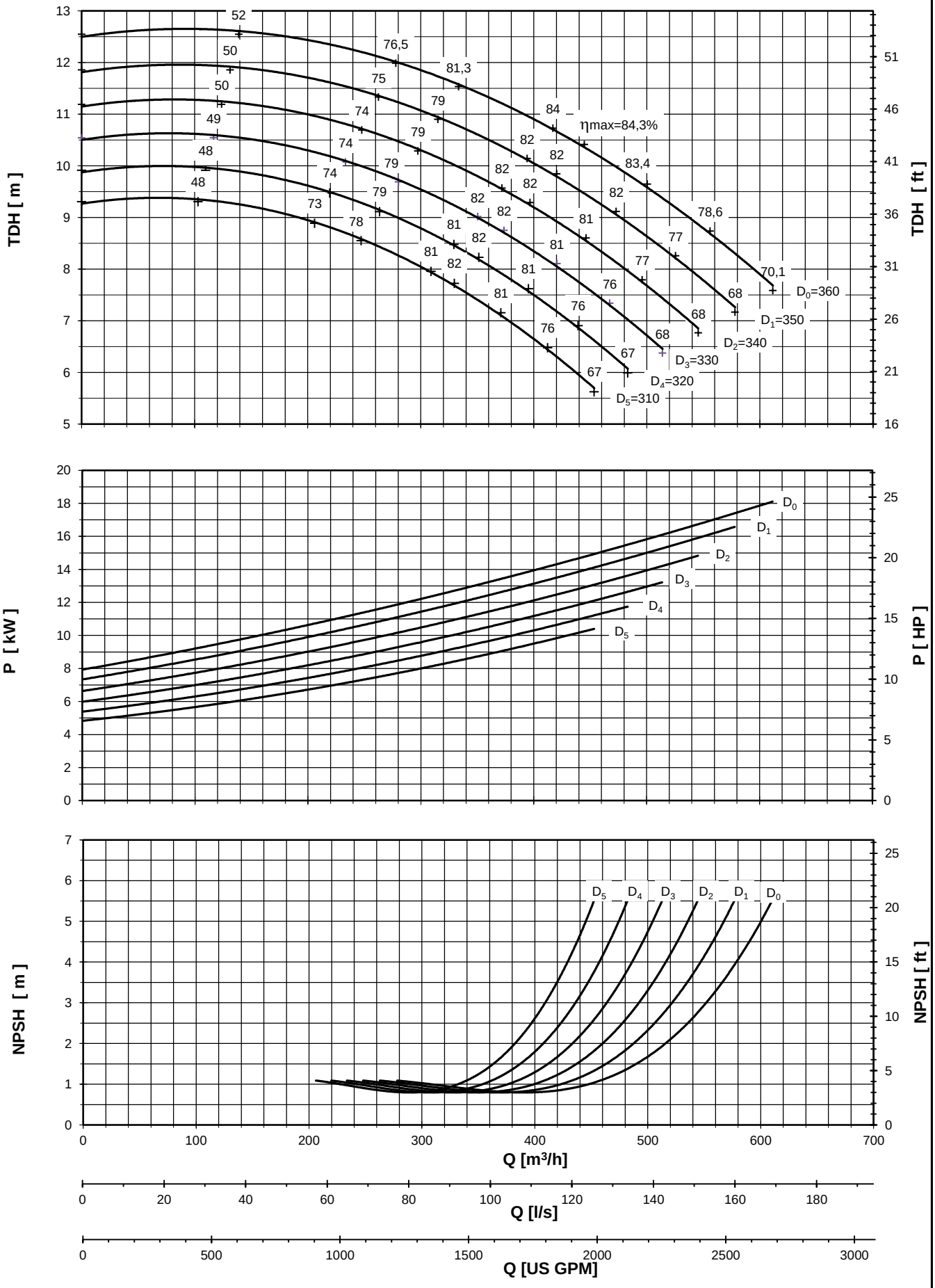
Performance curves are valid for clean cold water-kinematic viscosity 1 [mm^2/s], density 1000 [kg/m^3]. Methods and tolerances of presented performance curves are in accordance with ISO 9906 - Annex A

MZT PUMPI	PUMP PERFORMANCE CURVES No. 4HD.0260.08.R01	PUMP TYPE D 30-25-48 750 [rpm]



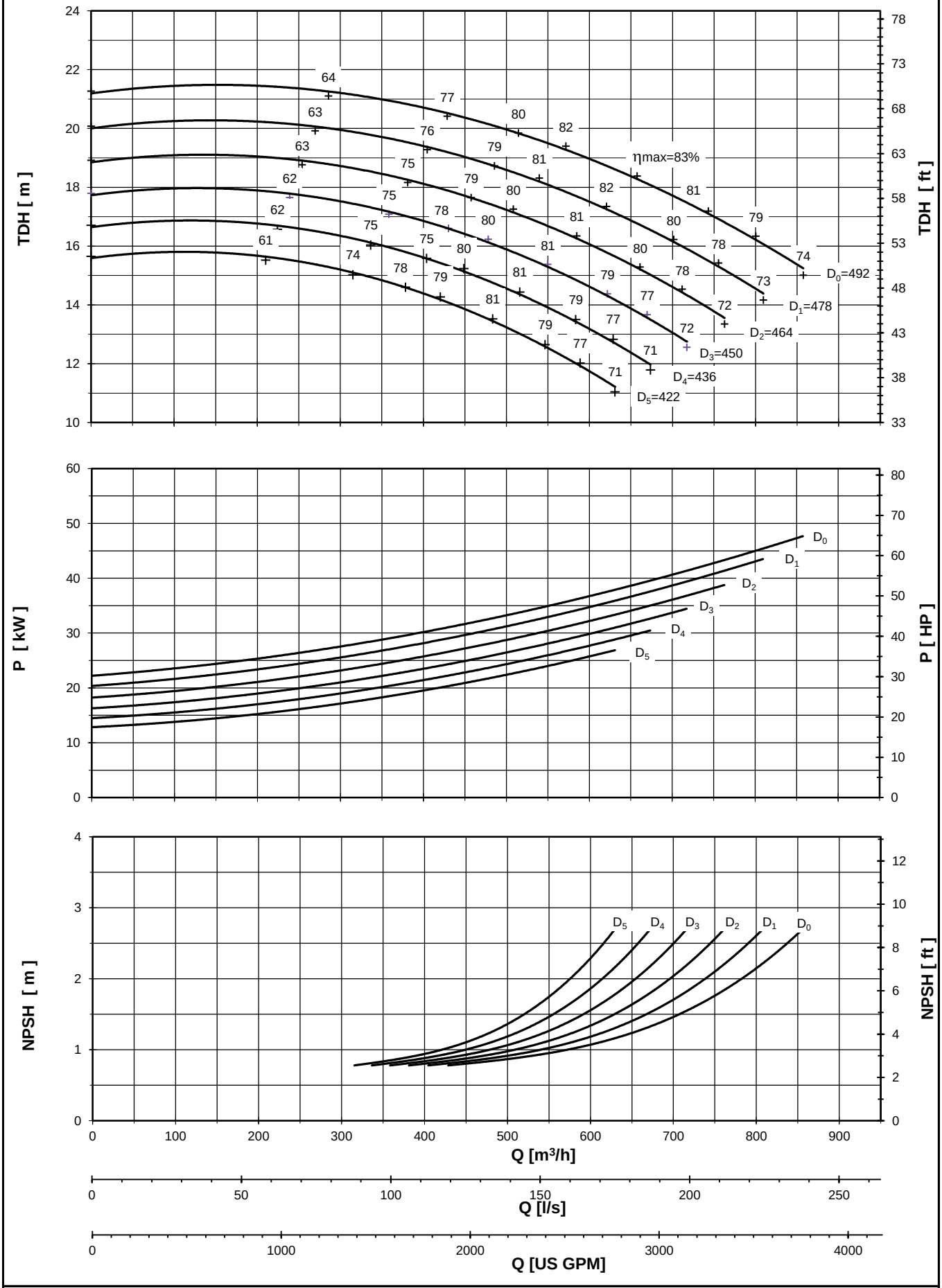
Performance curves are valid for clean cold water-kinematic viscosity 1 [mm^2/s], density 1000 [kg/m^3]. Methods and tolerances of presented performance curves are in accordance with ISO 9906 - Annex A

MZT PUMPI	PUMP PERFORMANCE CURVES No. 4HD.0220.08.R01	PUMP TYPE D 35-25-36 750 [rpm]



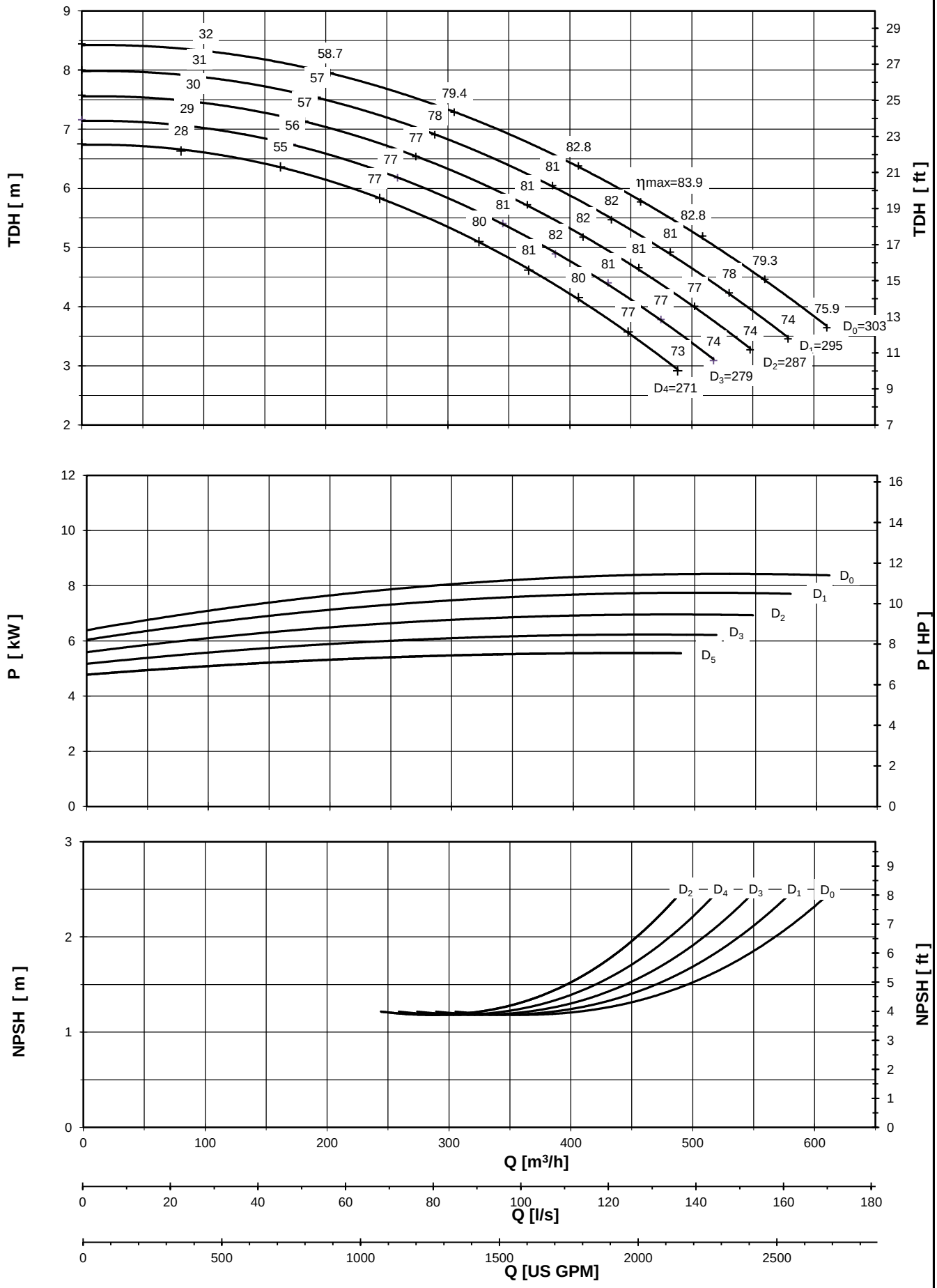
Performance curves are valid for clean cold water-kinematic viscosity 1 [mm^2/s], density 1000 [kg/m^3]. Methods and tolerances of presented performance curves are in accordance with ISO 9906 - Annex A

MZT PUMPI	PUMP PERFORMANCE CURVES No. 4HD.0246.08.R01	PUMP TYPE D 35-25-49 750 [rpm]



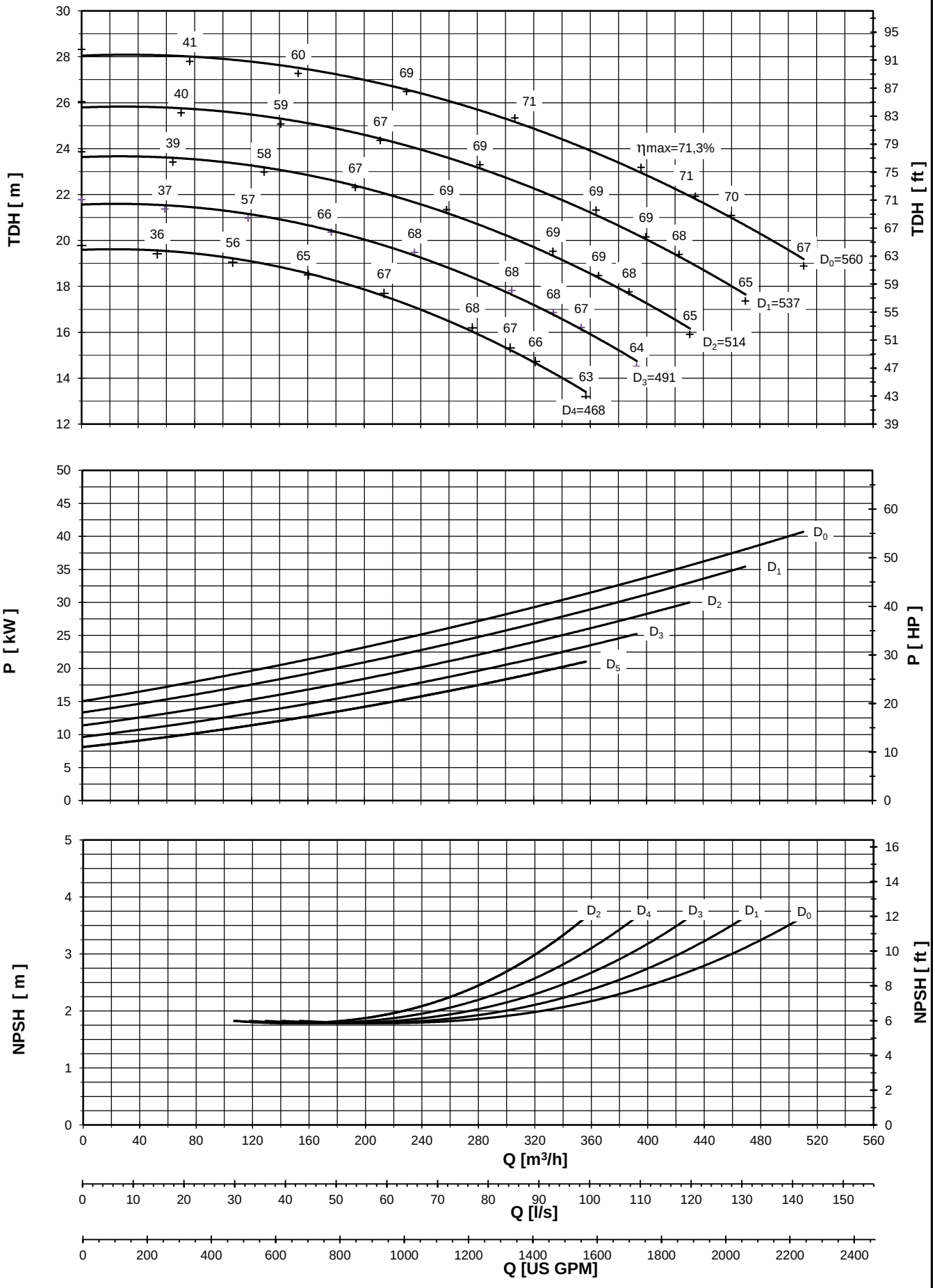
Performance curves are valid for clean cold water-kinematic viscosity 1 [mm^2/s], density 1000 [kg/m^3]. Methods and tolerances of presented performance curves are in accordance with ISO 9906 - Annex A

MZT PUMPI	PUMP PERFORMANCE CURVES No. 4HD.0266.08.R01	PUMP TYPE D 35-30-30 750 [rpm]



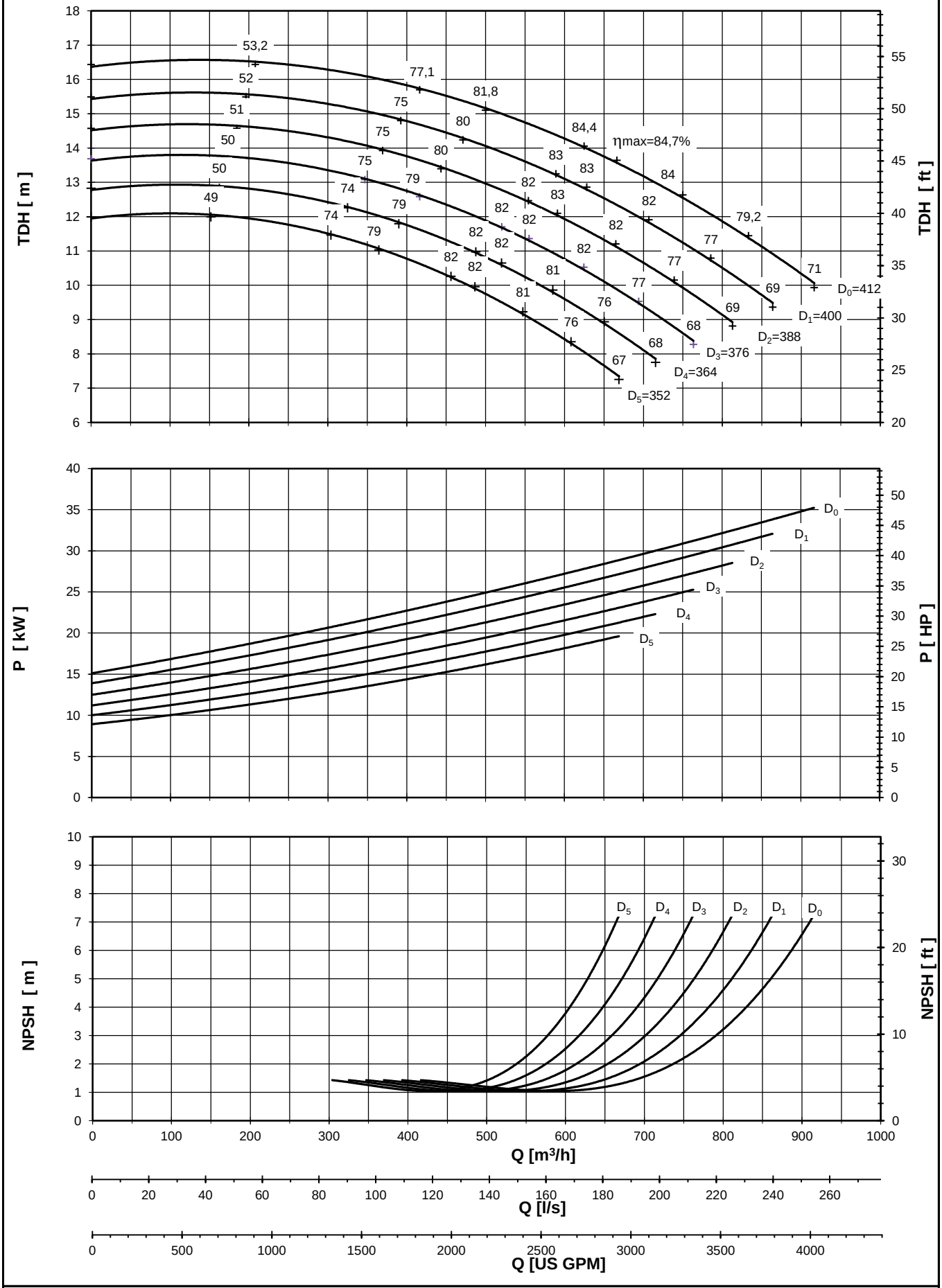
Performance curves are valid for clean cold water-kinematic viscosity 1 [mm^2/s], density 1000 [kg/m^3]. Methods and tolerances of presented performance curves are in accordance with ISO 9906 - Annex A

MZT PUMPI	PUMP PERFORMANCE CURVES No. 4HD.0261.08.R01	PUMP TYPE D 35-30-56 750 [rpm]



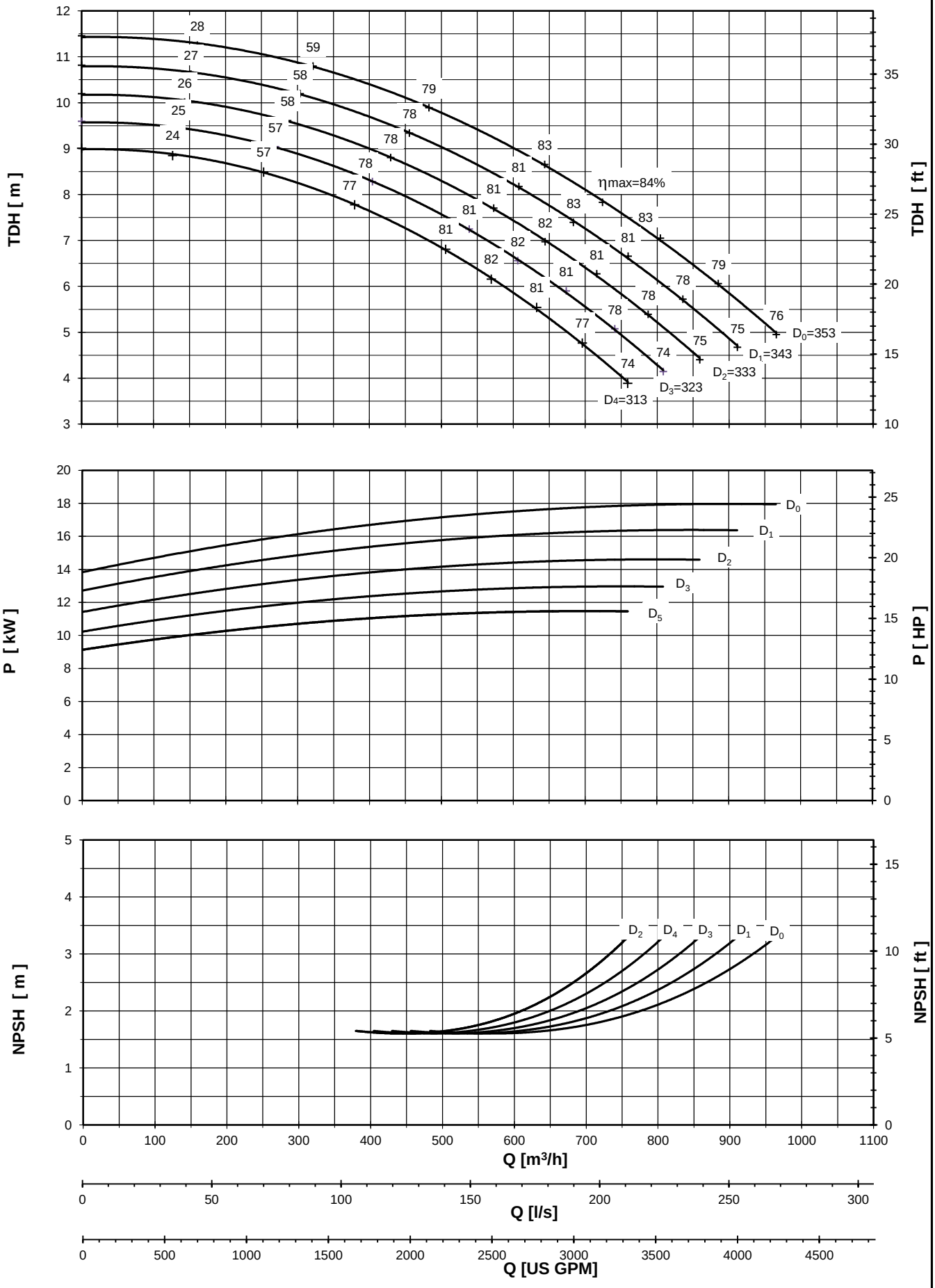
Performance curves are valid for clean cold water-kinematic viscosity 1 [mm^2/s], density 1000 [kg/m^3]. Methods and tolerances of presented performance curves are in accordance with ISO 9906 - Annex A

MZT PUMPI	PUMP PERFORMANCE CURVES No. 4HD.0221.08.R01	PUMP TYPE D 40-25-41 750 [rpm]



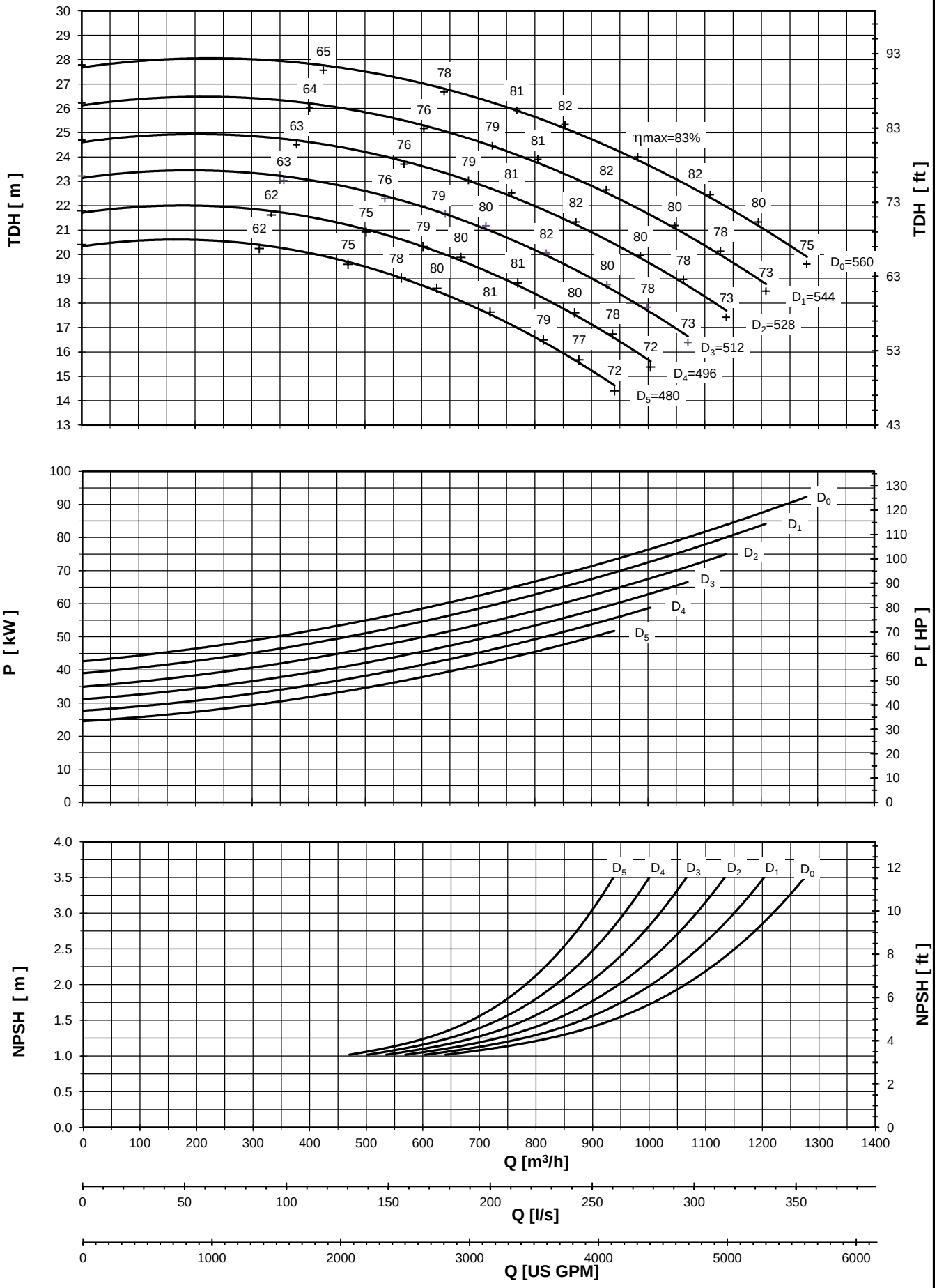
Performance curves are valid for clean cold water-kinematic viscosity 1 [mm^2/s], density 1000 [kg/m^3]. Methods and tolerances of presented performance curves are in accordance with ISO 9906 - Annex A

MZT PUMPI	PUMP PERFORMANCE CURVES No. 4HD.0253.08.R01	PUMP TYPE D 40-30-35 750 [rpm]



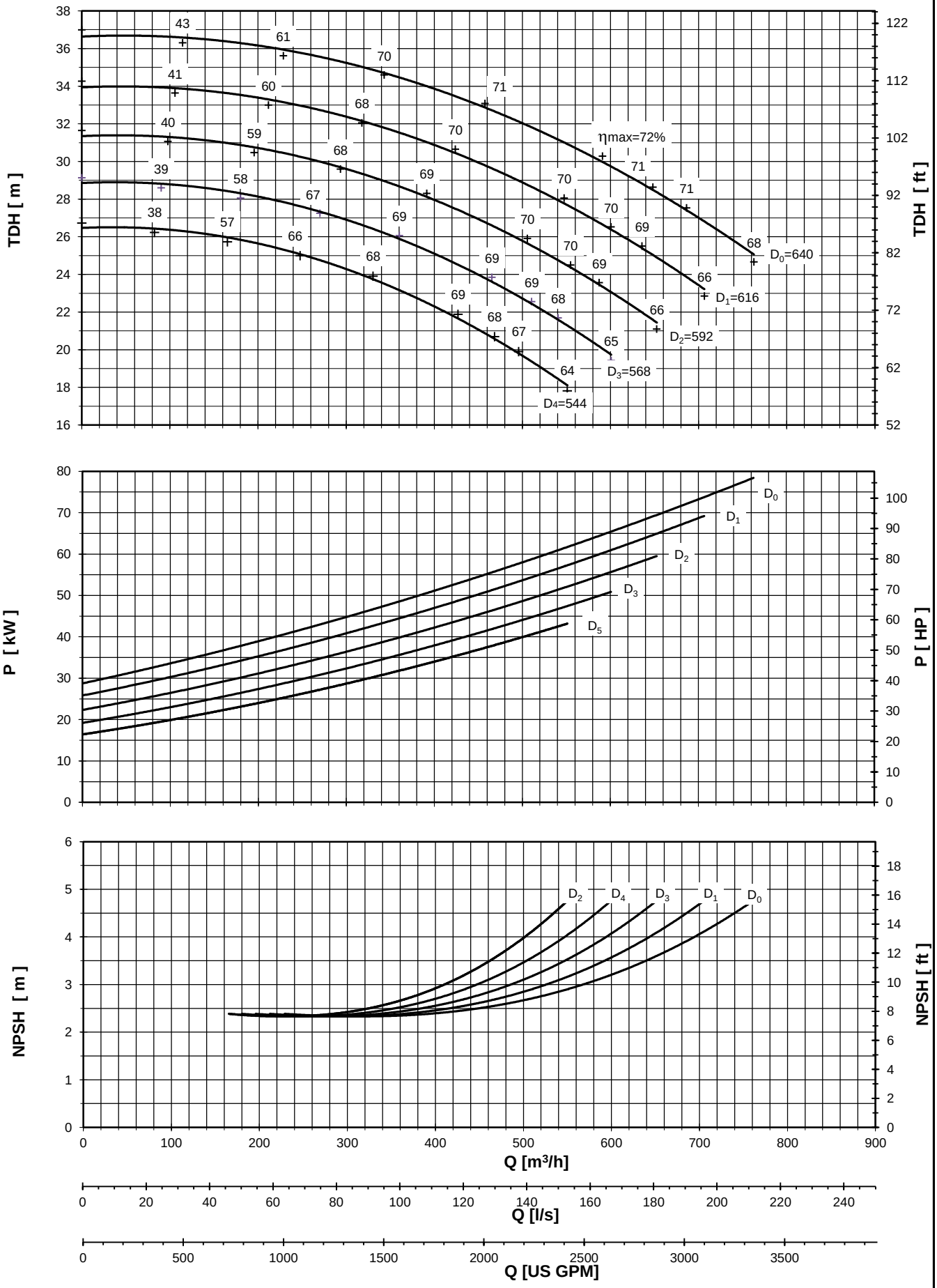
Performance curves are valid for clean cold water-kinematic viscosity 1 [mm^2/s], density 1000 [kg/m^3]. Methods and tolerances of presented performance curves are in accordance with ISO 9906 - Annex A

MZT PUMPI	PUMP PERFORMANCE CURVES No. 4HD.0247.08.R01	PUMP TYPE D 40-30-56 750 [rpm]



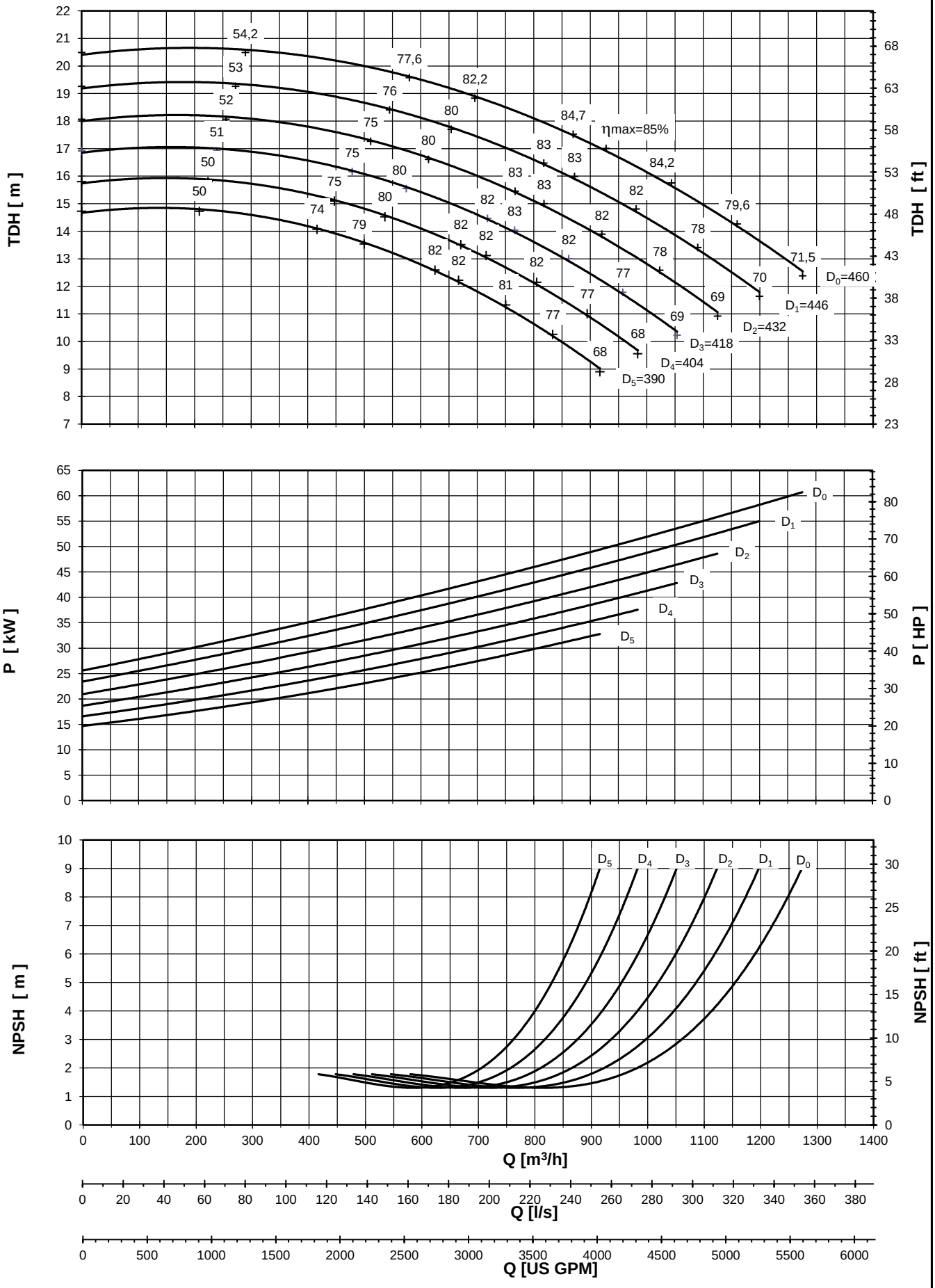
Performance curves are valid for clean cold water-kinematic viscosity 1 [mm^2/s], density 1000 [kg/m^3]. Methods and tolerances of presented performance curves are in accordance with ISO 9906 - Annex A

MZT PUMPI	PUMP PERFORMANCE CURVES No. 4HD.0262.08.R01	PUMP TYPE D 40-35-64 750 [rpm]



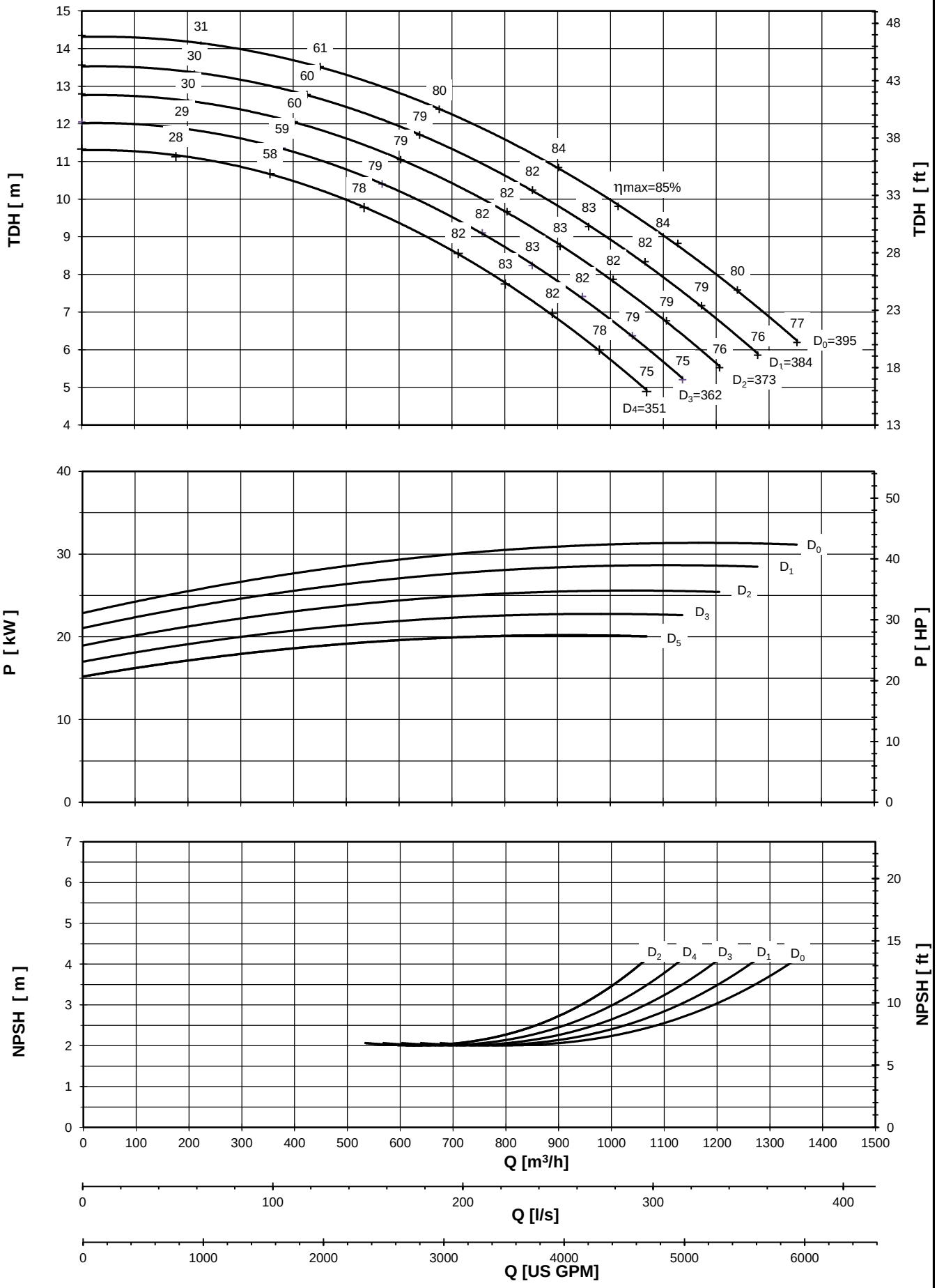
Performance curves are valid for clean cold water-kinematic viscosity 1 [mm^2/s], density 1000 [kg/m^3]. Methods and tolerances of presented performance curves are in accordance with ISO 9906 - Annex A

MZT PUMPI	PUMP PERFORMANCE CURVES No. 4HD.0222.08.R01	PUMP TYPE D 45-30-46 750 [rpm]



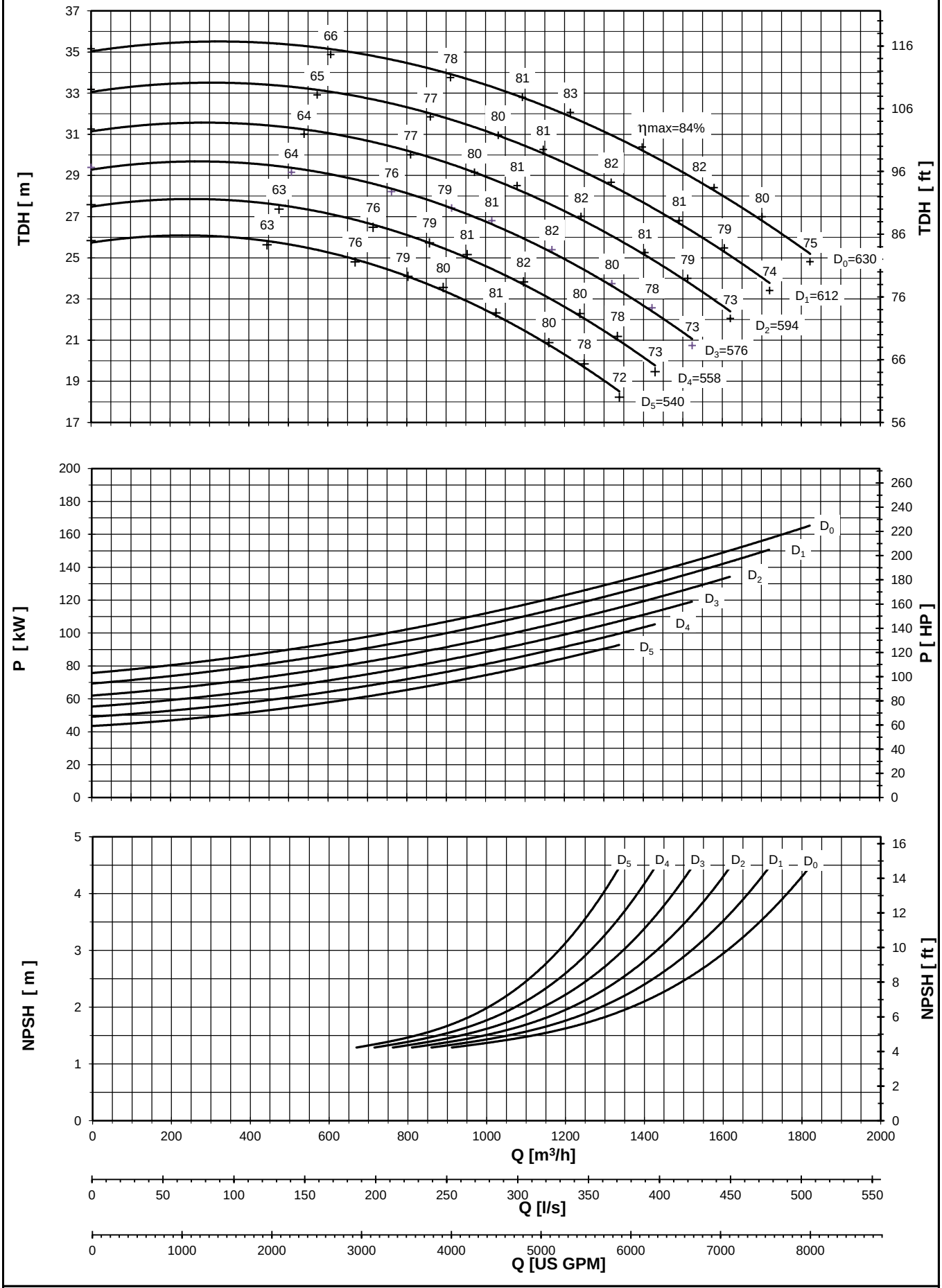
Performance curves are valid for clean cold water-kinematic viscosity 1 [mm^2/s], density 1000 [kg/m^3]. Methods and tolerances of presented performance curves are in accordance with ISO 9906 - Annex A

MZT PUMPI	PUMP PERFORMANCE CURVES No. 4HD.0265.08.R01	PUMP TYPE D 45-35-39 750 [rpm]



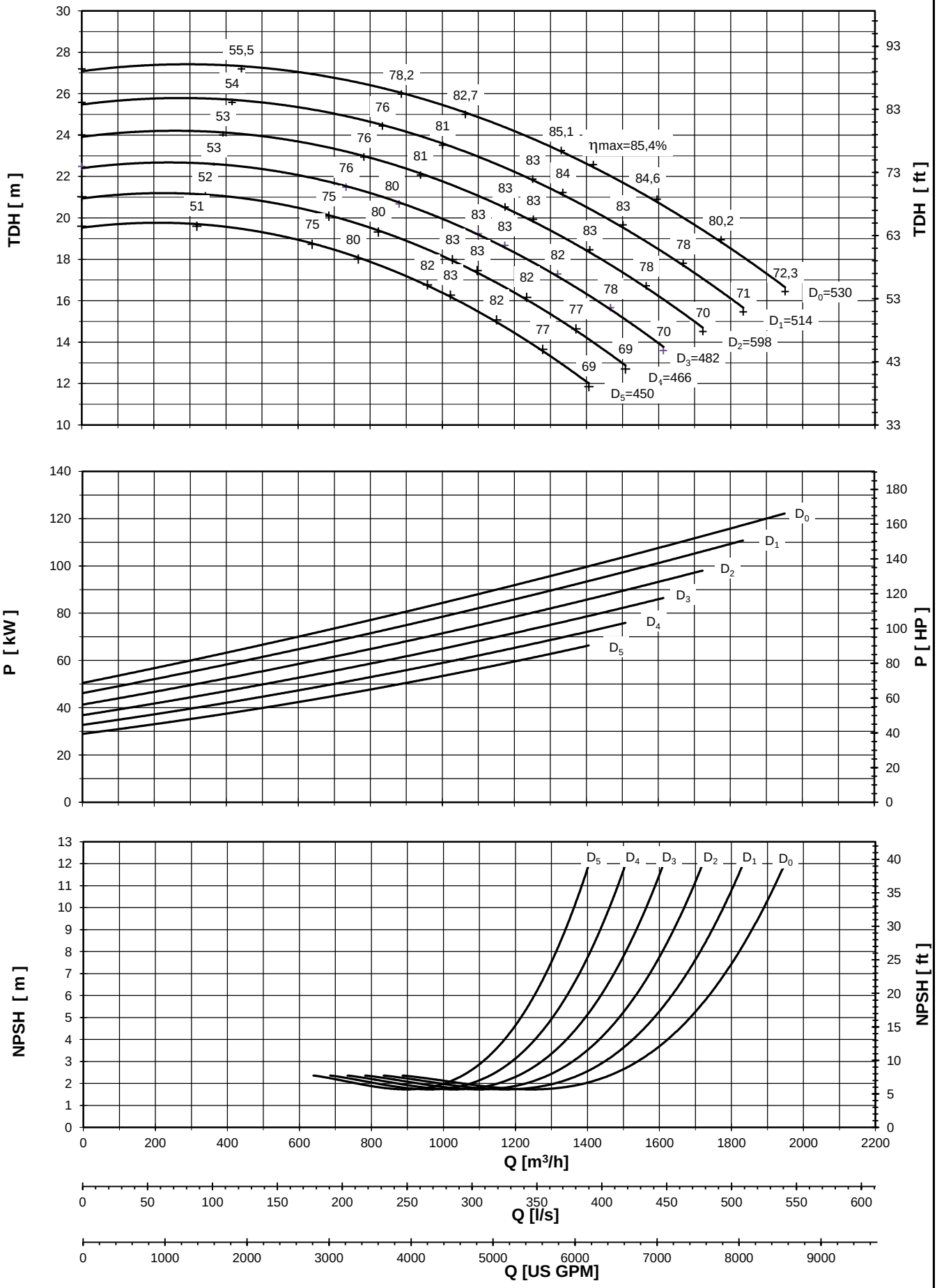
Performance curves are valid for clean cold water-kinematic viscosity 1 [mm^2/s], density 1000 [kg/m^3]. Methods and tolerances of presented performance curves are in accordance with ISO 9906 - Annex A

MZT PUMPI	PUMP PERFORMANCE CURVES No. 4HD.0249.08.R01	PUMP TYPE D 45-35-63 750 [rpm]



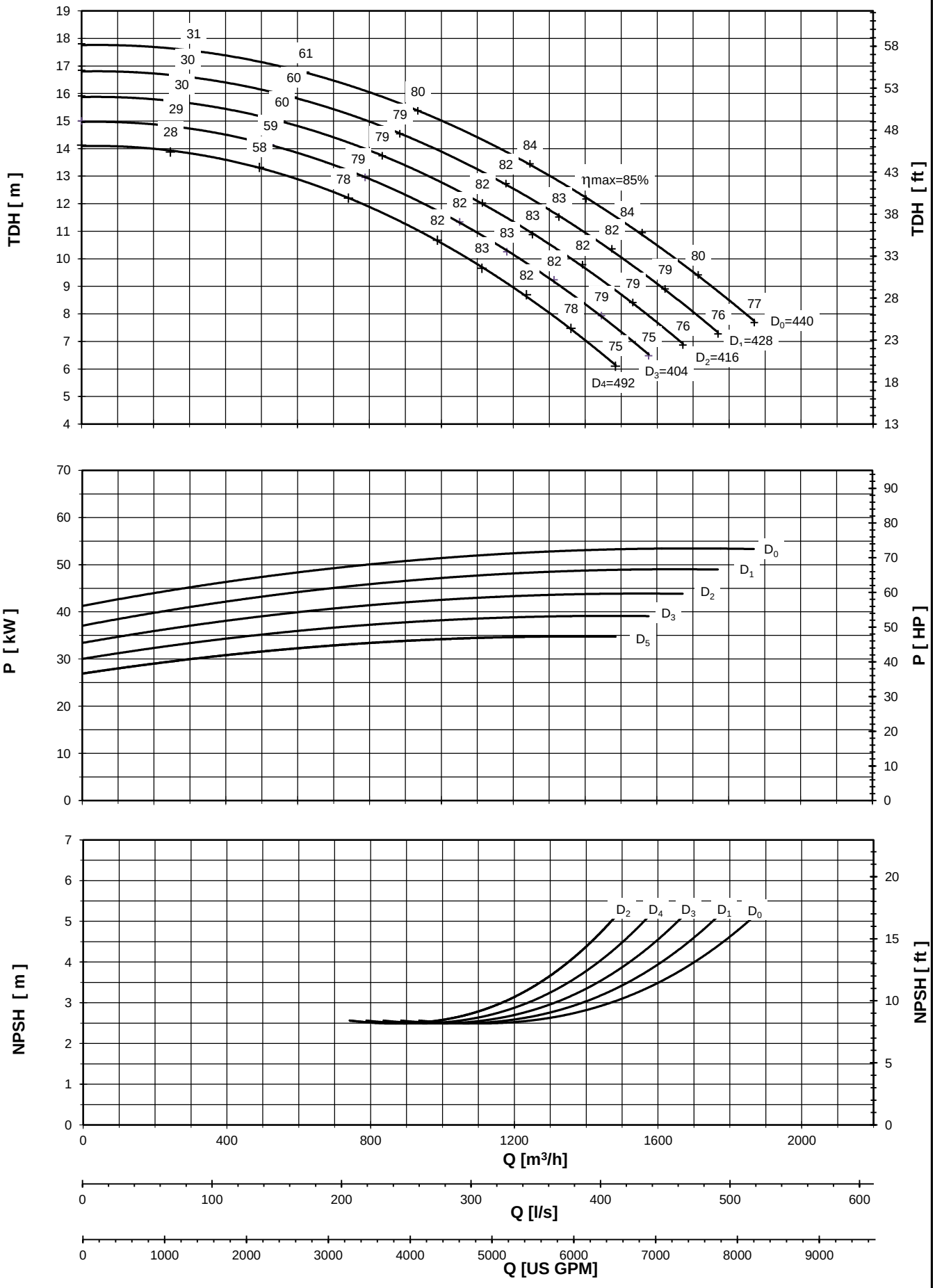
Performance curves are valid for clean cold water-kinematic viscosity 1 [mm^2/s], density 1000 [kg/m^3]. Methods and tolerances of presented performance curves are in accordance with ISO 9906 - Annex A

MZT PUMPI	PUMP PERFORMANCE CURVES No. 4HD.0223.08.R01	PUMP TYPE D 50-35-53 750 [rpm]



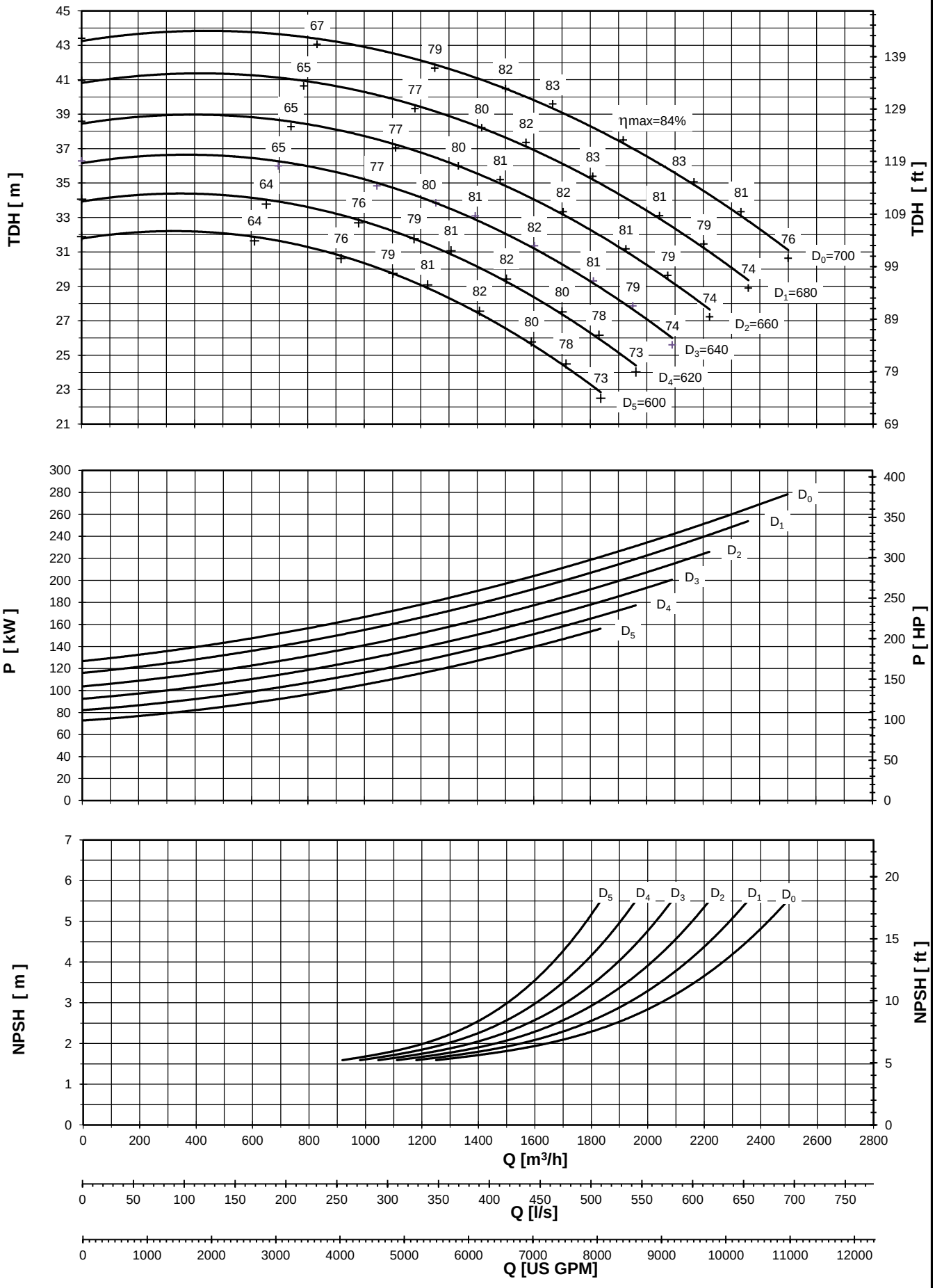
Performance curves are valid for clean cold water-kinematic viscosity 1 [mm^2/s], density 1000 [kg/m^3]. Methods and tolerances of presented performance curves are in accordance with ISO 9906 - Annex A

MZT PUMPI	PUMP PERFORMANCE CURVES No. 4HD.0254.08.R01	PUMP TYPE D 50-40-44 750 [rpm]



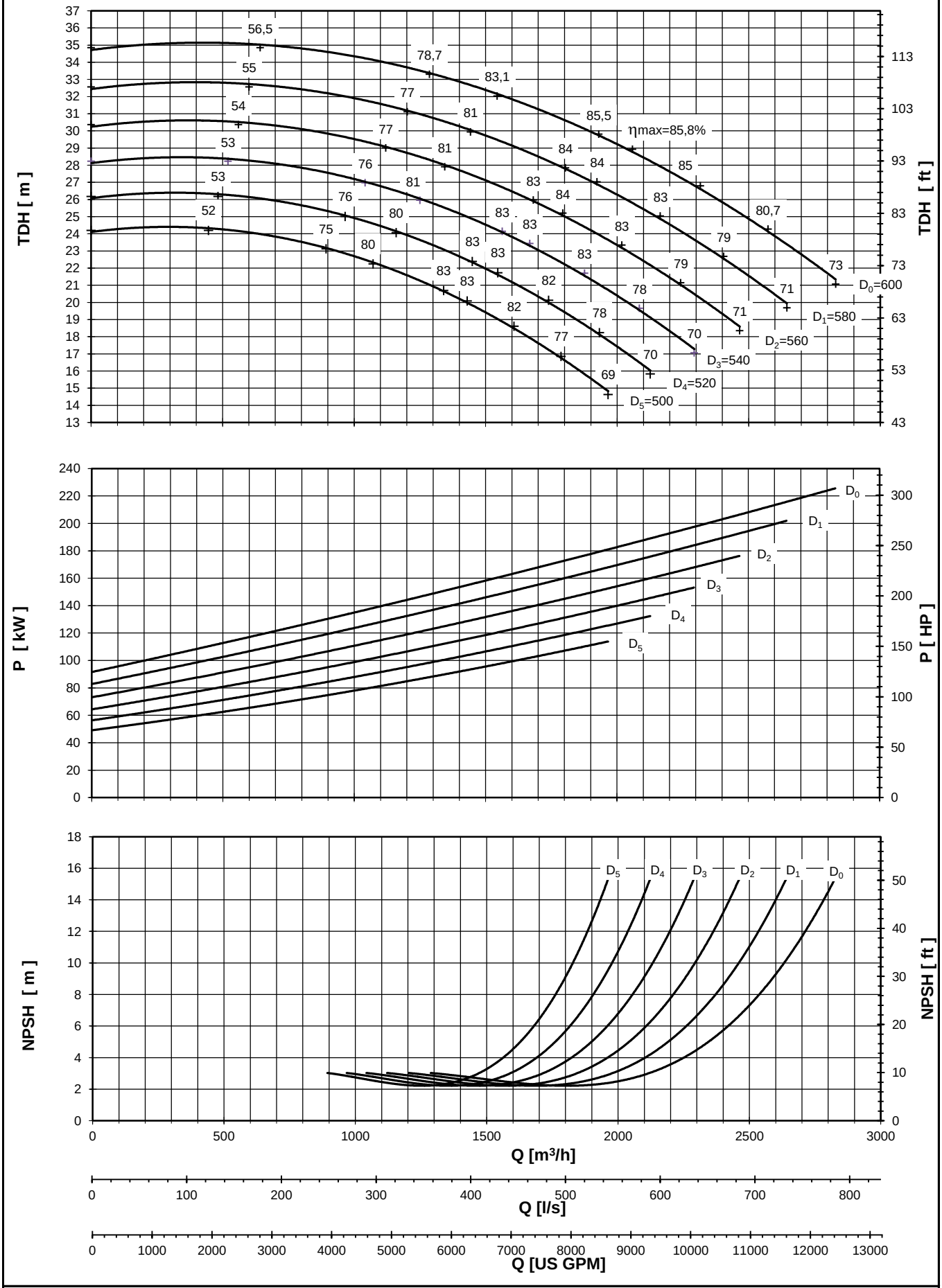
Performance curves are valid for clean cold water-kinematic viscosity 1 [mm^2/s], density 1000 [kg/m^3]. Methods and tolerances of presented performance curves are in accordance with ISO 9906 - Annex A

MZT PUMPI	PUMP PERFORMANCE CURVES No. 4HD.0250.08.R01	PUMP TYPE D 50-40-70 750 [rpm]



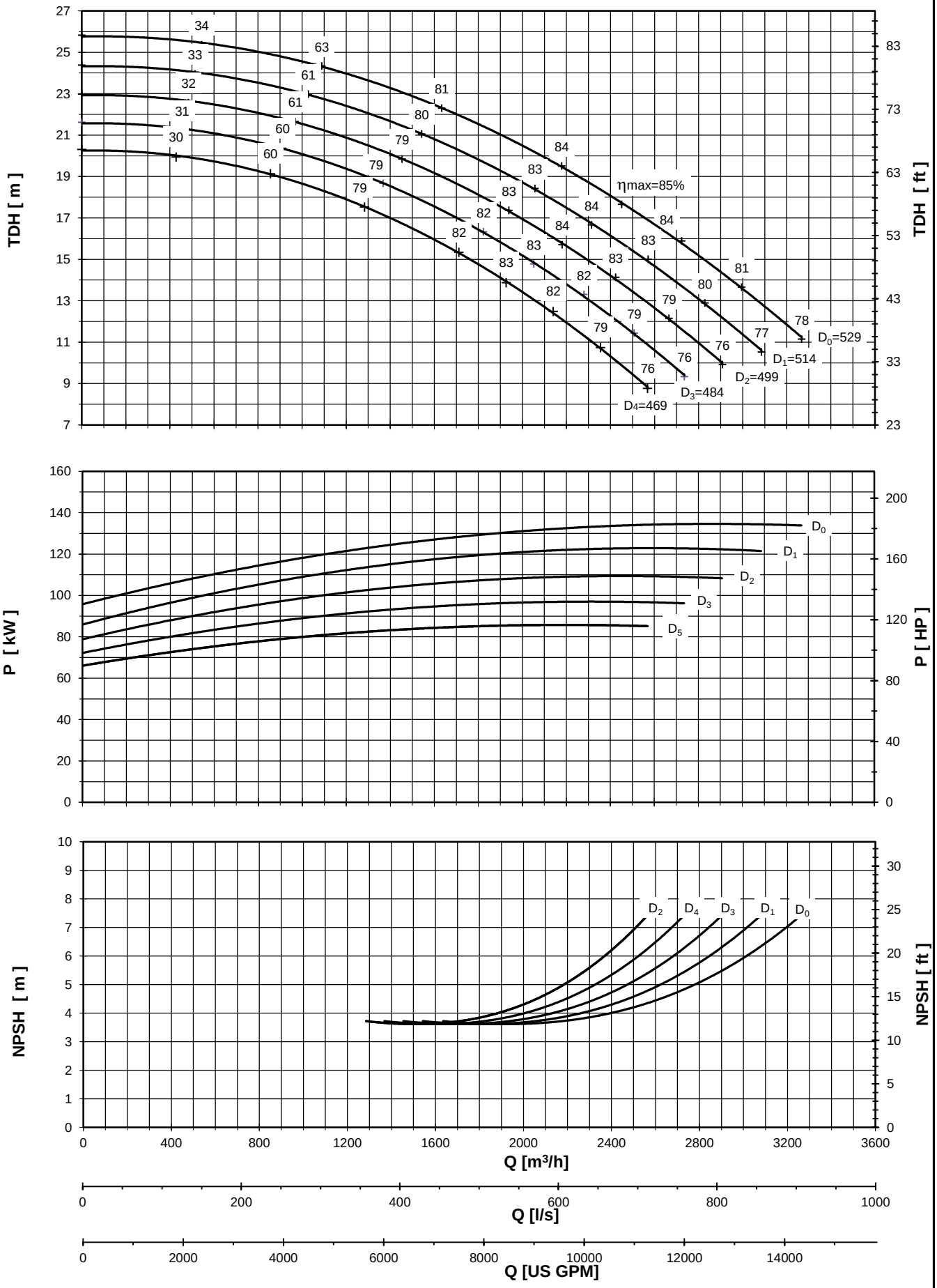
Performance curves are valid for clean cold water-kinematic viscosity 1 [mm^2/s], density 1000 [kg/m^3]. Methods and tolerances of presented performance curves are in accordance with ISO 9906 - Annex A

MZT PUMPI	PUMP PERFORMANCE CURVES No. 4HD.0224.08.R01	PUMP TYPE D 60-40-60 750 [rpm]



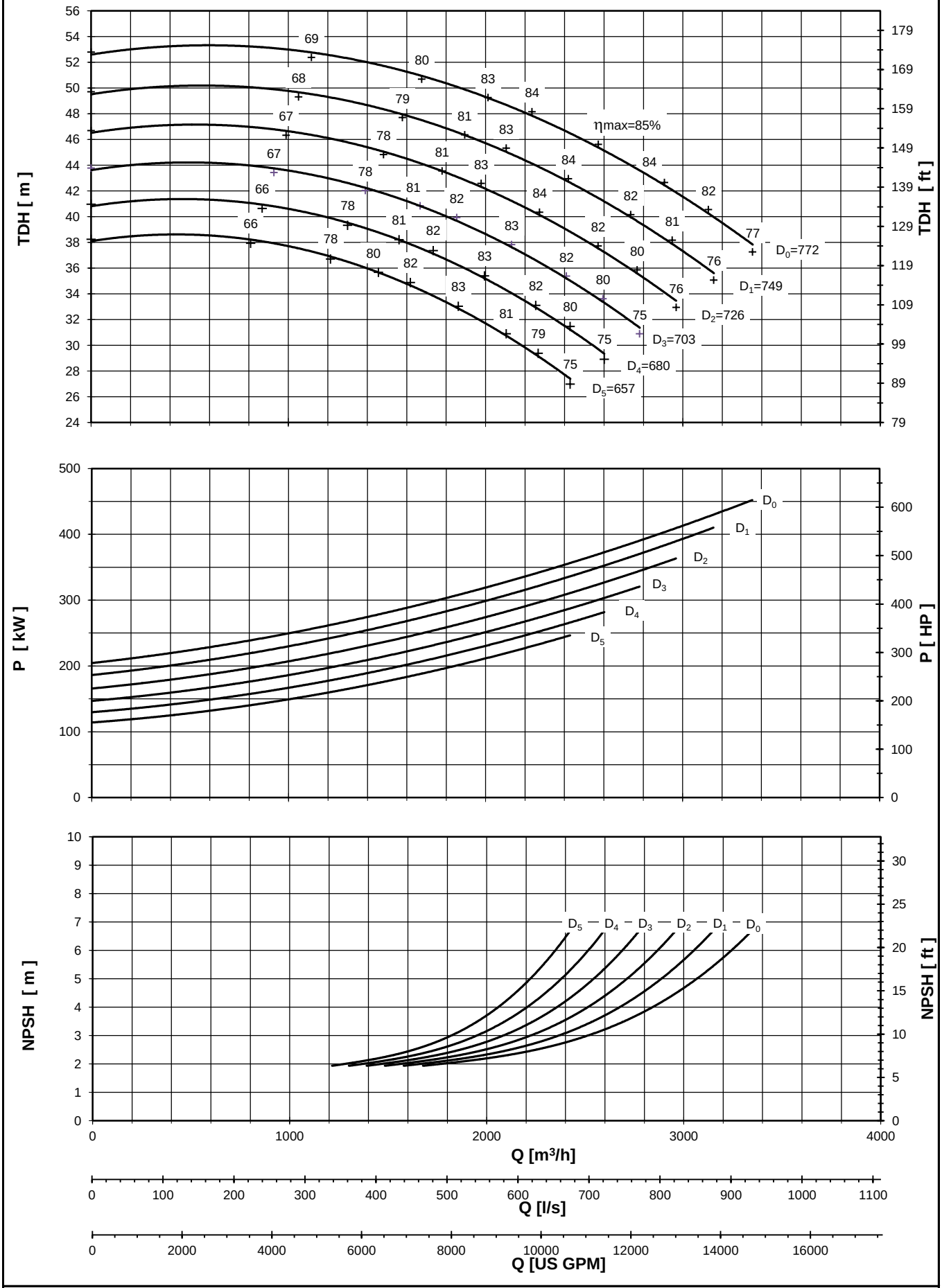
Performance curves are valid for clean cold water-kinematic viscosity 1 [mm^2/s], density 1000 [kg/m^3]. Methods and tolerances of presented performance curves are in accordance with ISO 9906 - Annex A

MZT PUMPI	PUMP PERFORMANCE CURVES No. 4HD.0255.08.R01	PUMP TYPE D 60-45-53 750 [rpm]



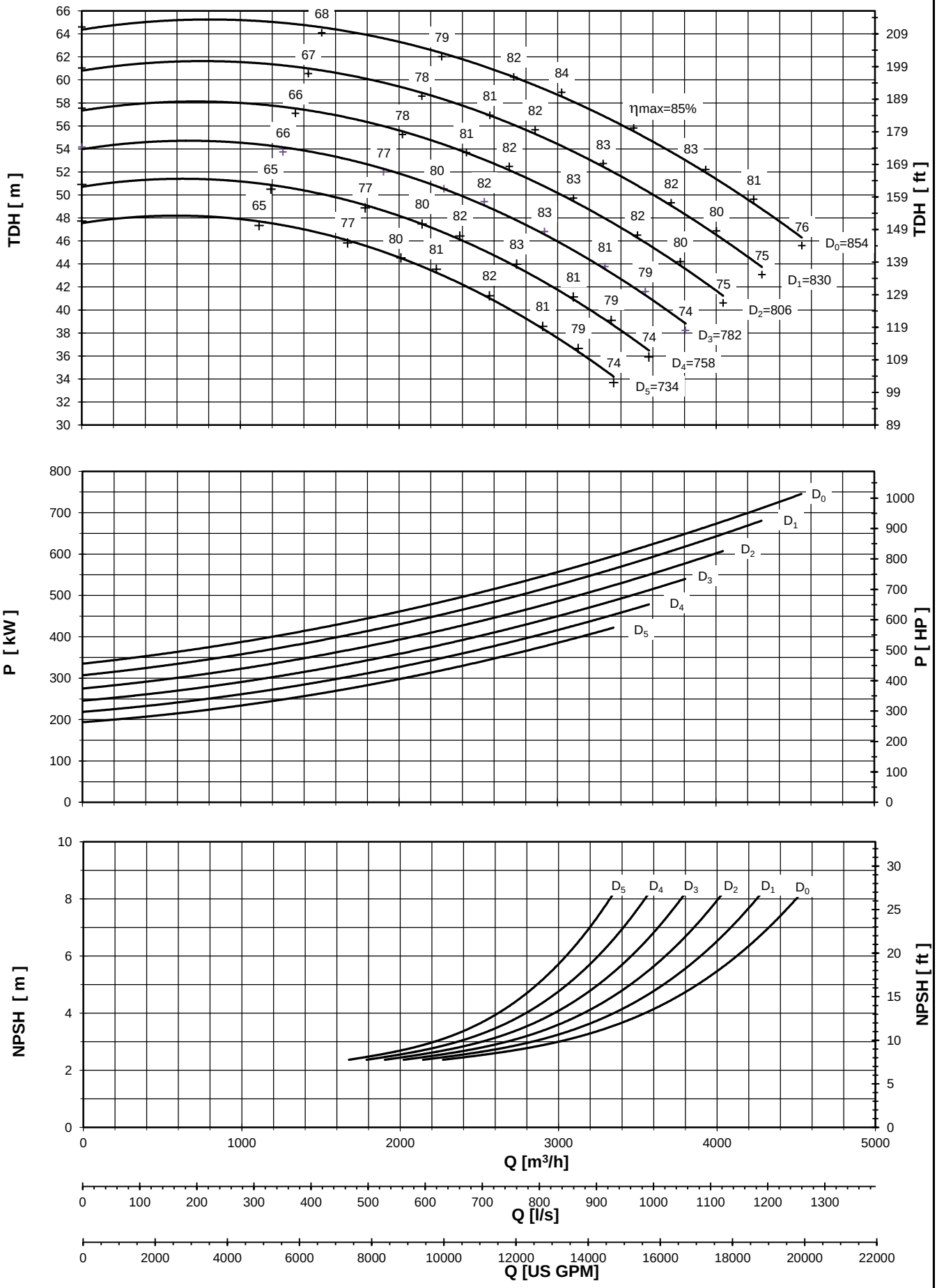
Performance curves are valid for clean cold water-kinematic viscosity 1 [mm^2/s], density 1000 [kg/m^3]. Methods and tolerances of presented performance curves are in accordance with ISO 9906 - Annex A

MZT PUMPI	PUMP PERFORMANCE CURVES No. 4HD.0267.08.R01	PUMP TYPE D 60-45-77 750 [rpm]



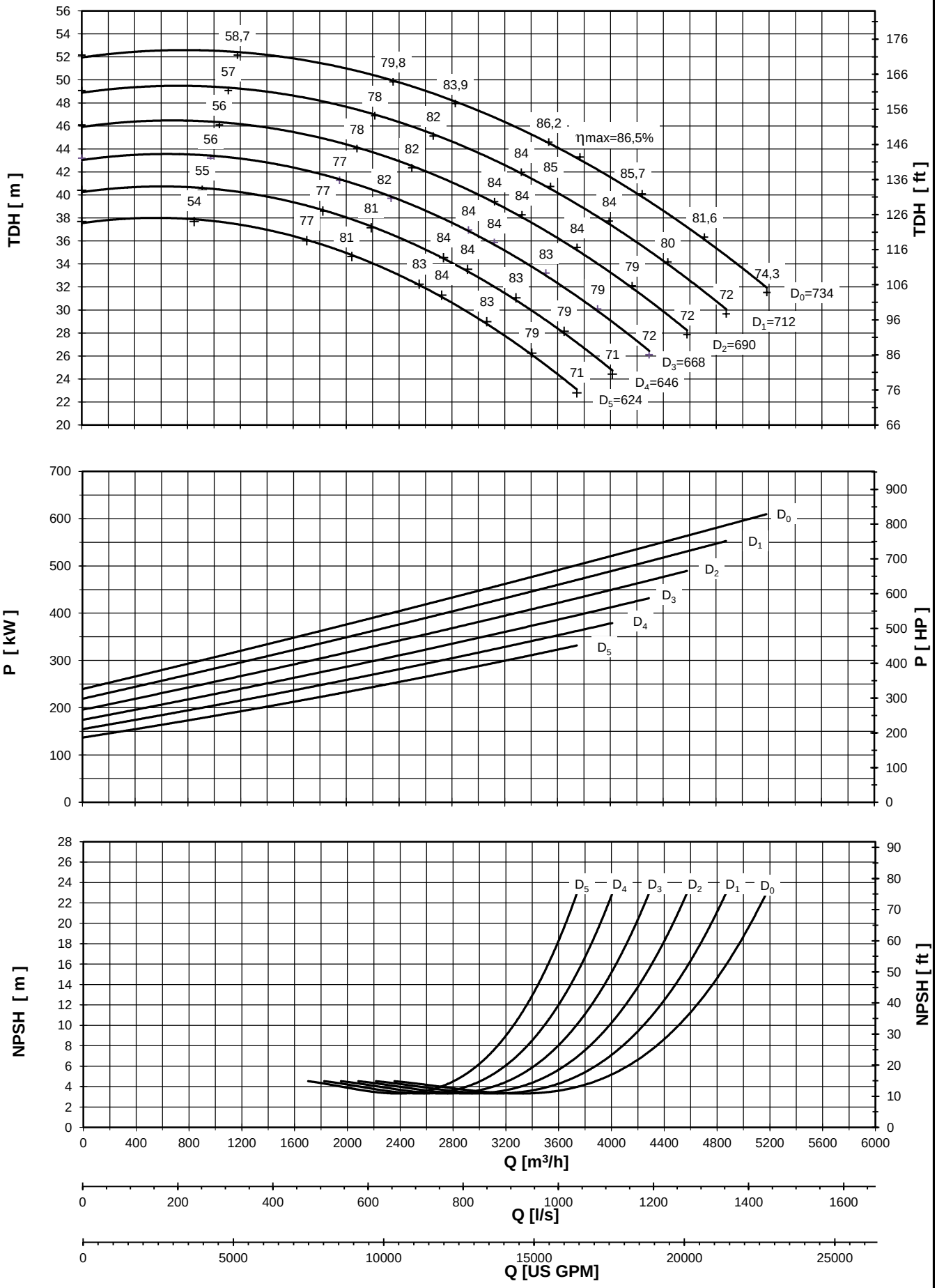
Performance curves are valid for clean cold water-kinematic viscosity 1 [mm^2/s], density 1000 [kg/m^3]. Methods and tolerances of presented performance curves are in accordance with ISO 9906 - Annex A

MZT PUMPI	PUMP PERFORMANCE CURVES No. 4HD.0251.08.R01	PUMP TYPE D 60-50-85 750 [rpm]



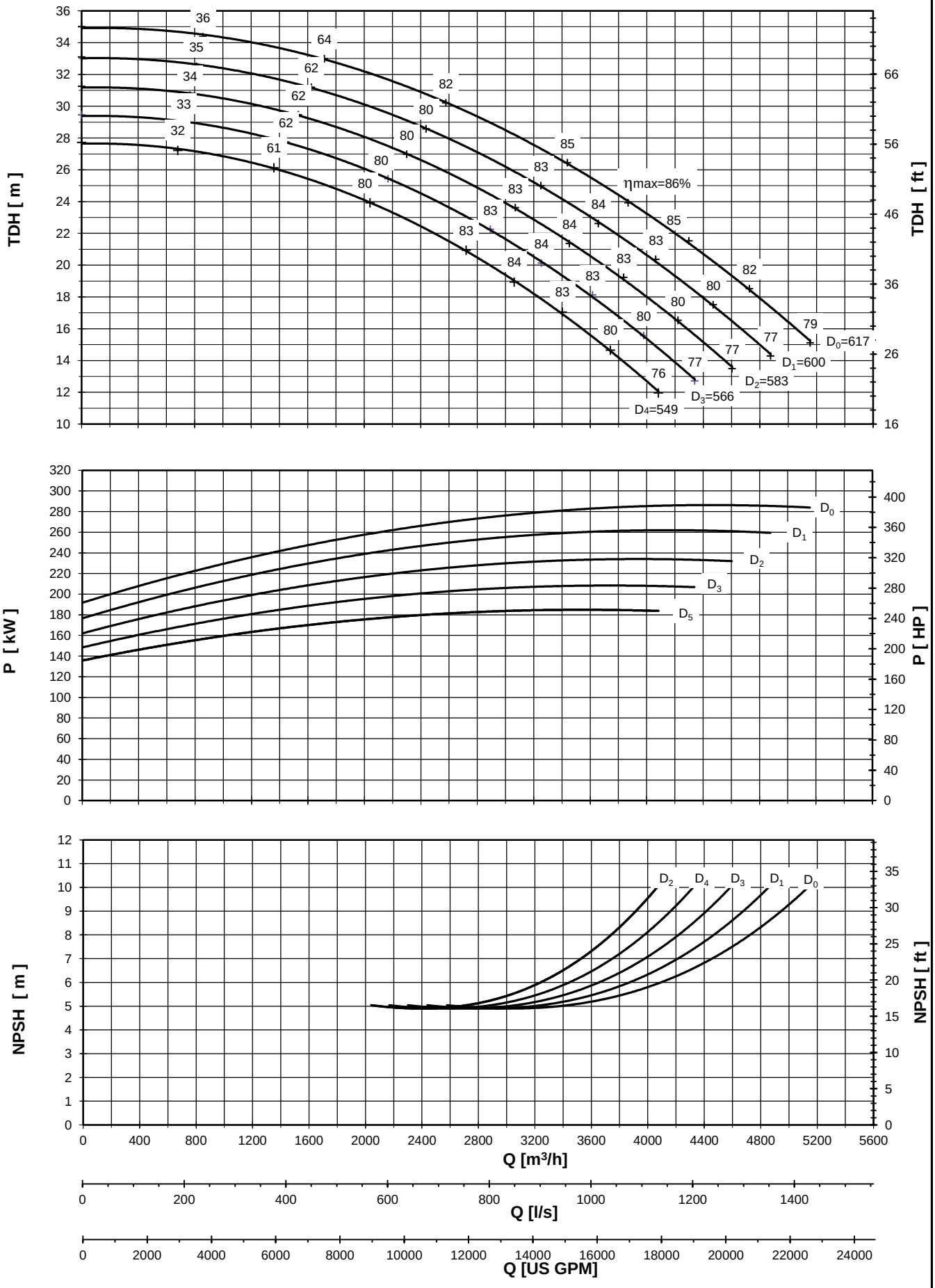
Performance curves are valid for clean cold water-kinematic viscosity 1 [mm^2/s], density 1000 [kg/m^3]. Methods and tolerances of presented performance curves are in accordance with ISO 9906 - Annex A

MZT PUMPI	PUMP PERFORMANCE CURVES No. 4HD.0263.08.R01	PUMP TYPE D 70-50-74 750 [rpm]



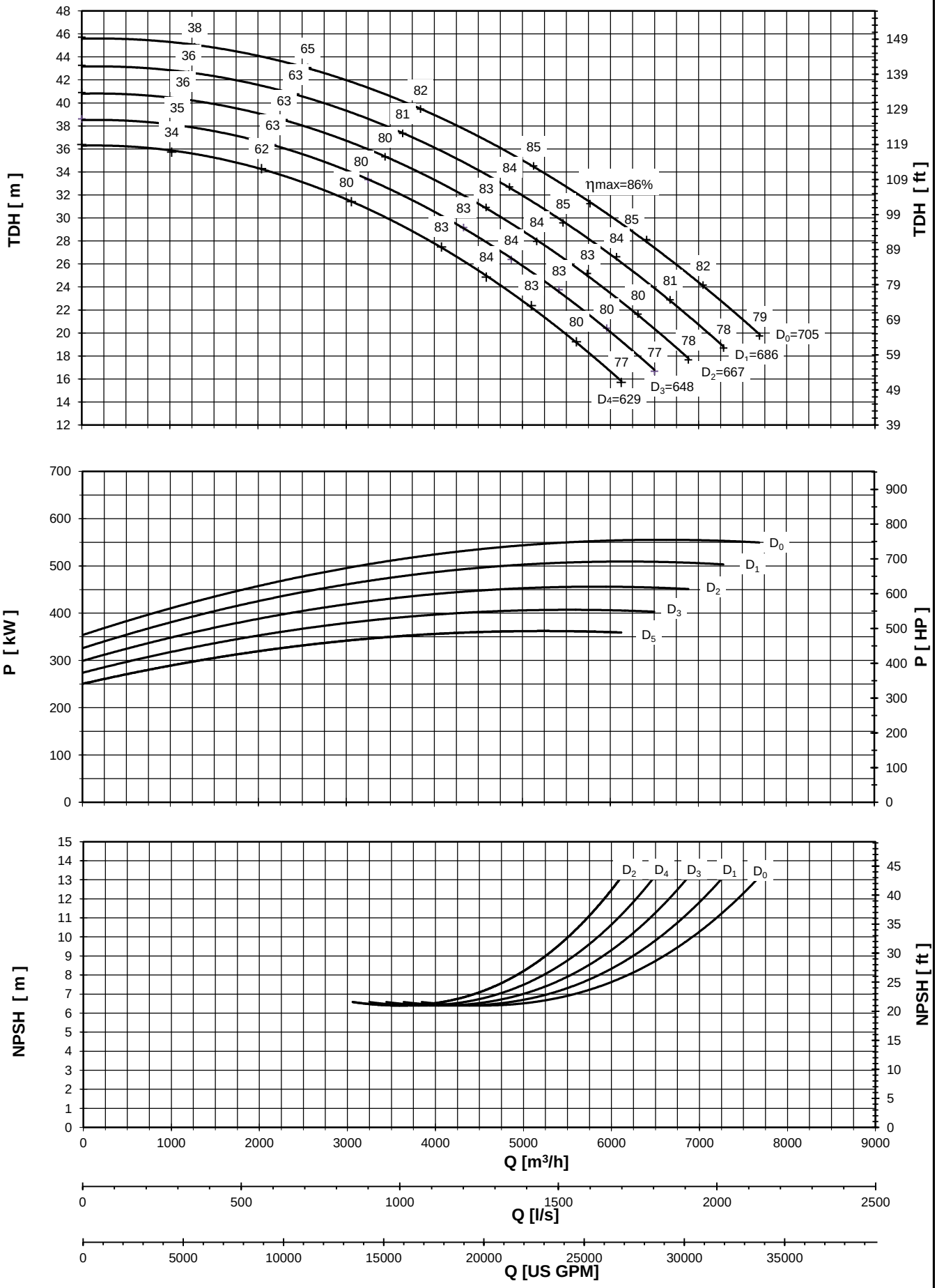
Performance curves are valid for clean cold water-kinematic viscosity 1 [mm^2/s], density 1000 [kg/m^3]. Methods and tolerances of presented performance curves are in accordance with ISO 9906 - Annex A

MZT PUMPI	PUMP PERFORMANCE CURVES No. 4HD.0256.08.R01	PUMP TYPE D 70-60-62 750 [rpm]



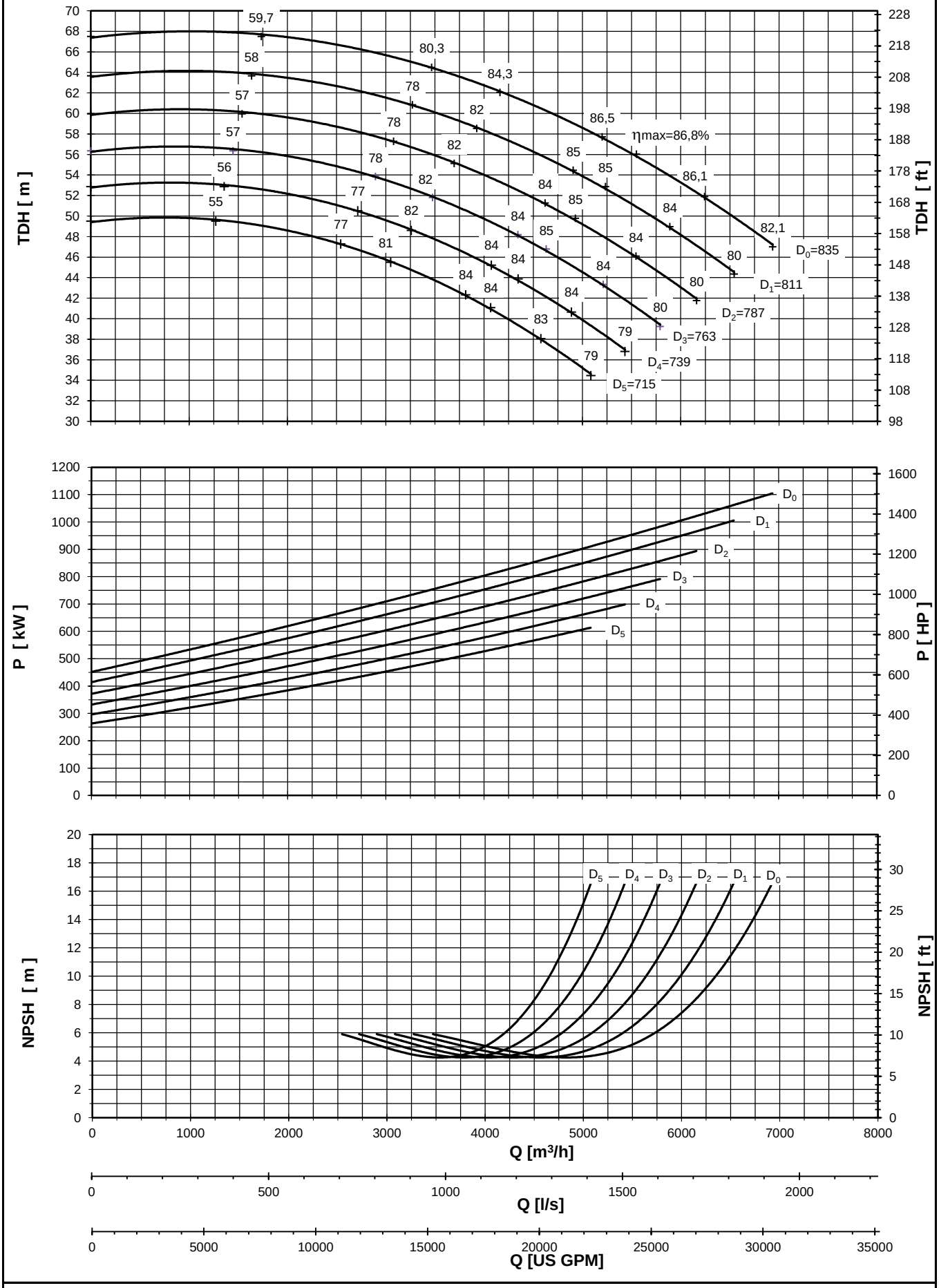
Performance curves are valid for clean cold water-kinematic viscosity 1 [mm^2/s], density 1000 [kg/m^3]. Methods and tolerances of presented performance curves are in accordance with ISO 9906 - Annex A

MZT PUMPI	PUMP PERFORMANCE CURVES No. 4HD.0257.08.R01	PUMP TYPE D 80-60-71 750 [rpm]



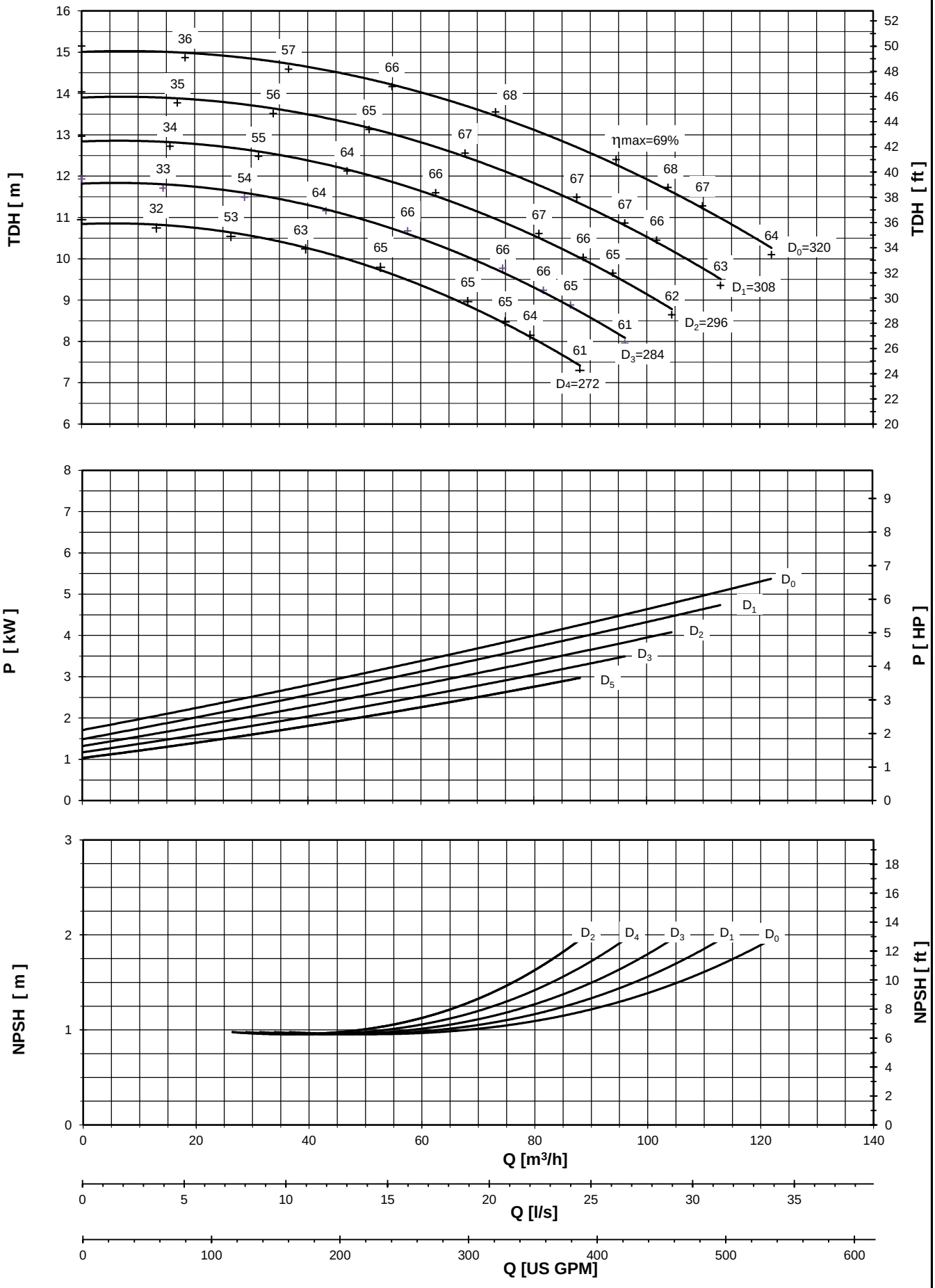
Performance curves are valid for clean cold water-kinematic viscosity 1 [mm^2/s], density 1000 [kg/m^3]. Methods and tolerances of presented performance curves are in accordance with ISO 9906 - Annex A

MZT PUMPI	PUMP PERFORMANCE CURVES No. 4HD.0264.08.R01	PUMP TYPE D 80-60-84 750 [rpm]



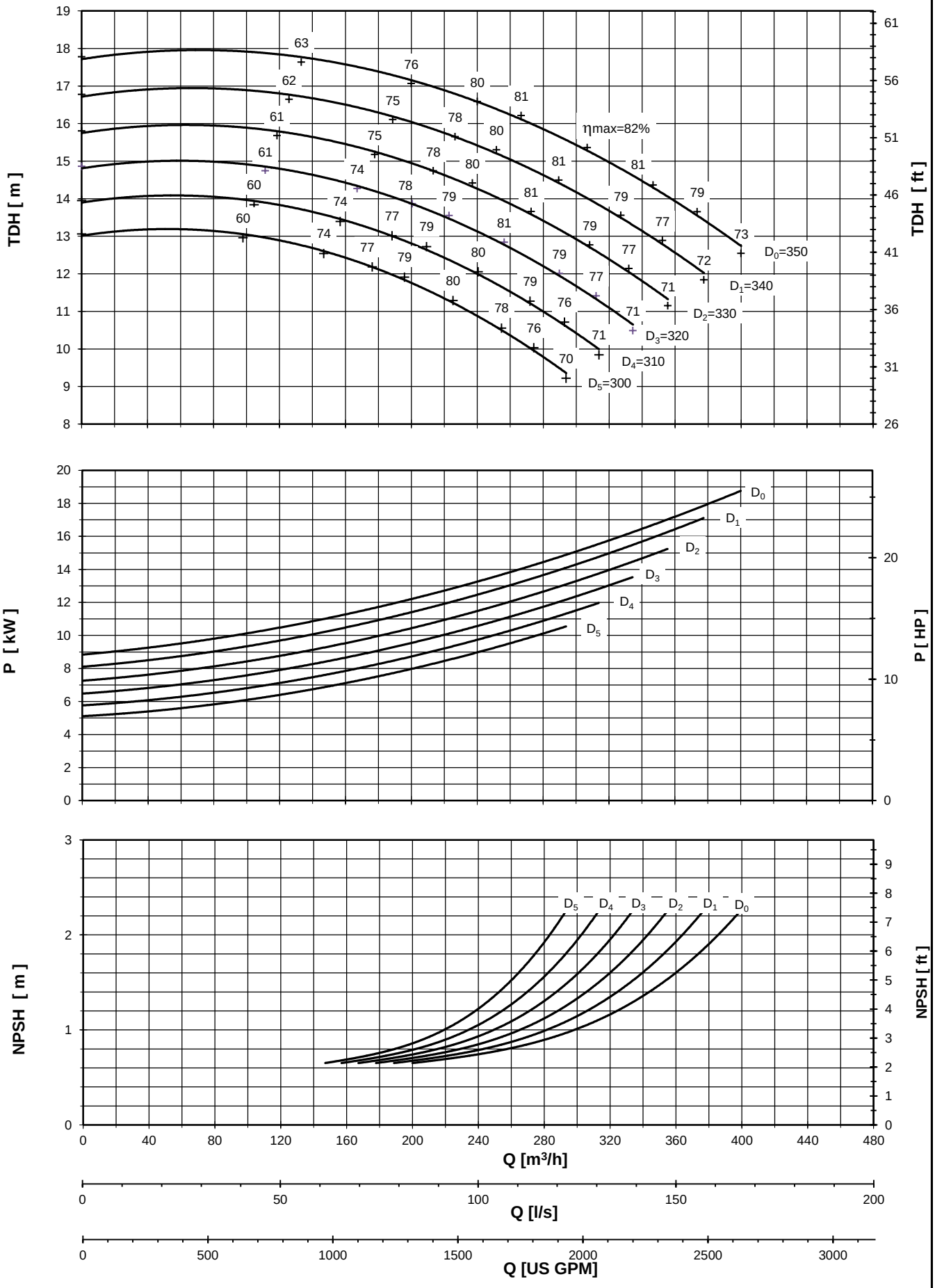
Performance curves are valid for clean cold water-kinematic viscosity 1 [mm^2/s], density 1000 [kg/m^3]. Methods and tolerances of presented performance curves are in accordance with ISO 9906 - Annex A

MZT PUMPI	PUMP PERFORMANCE CURVES No. 4HD.0258.06.R01	PUMP TYPE D 20-15-32 960 [rpm]



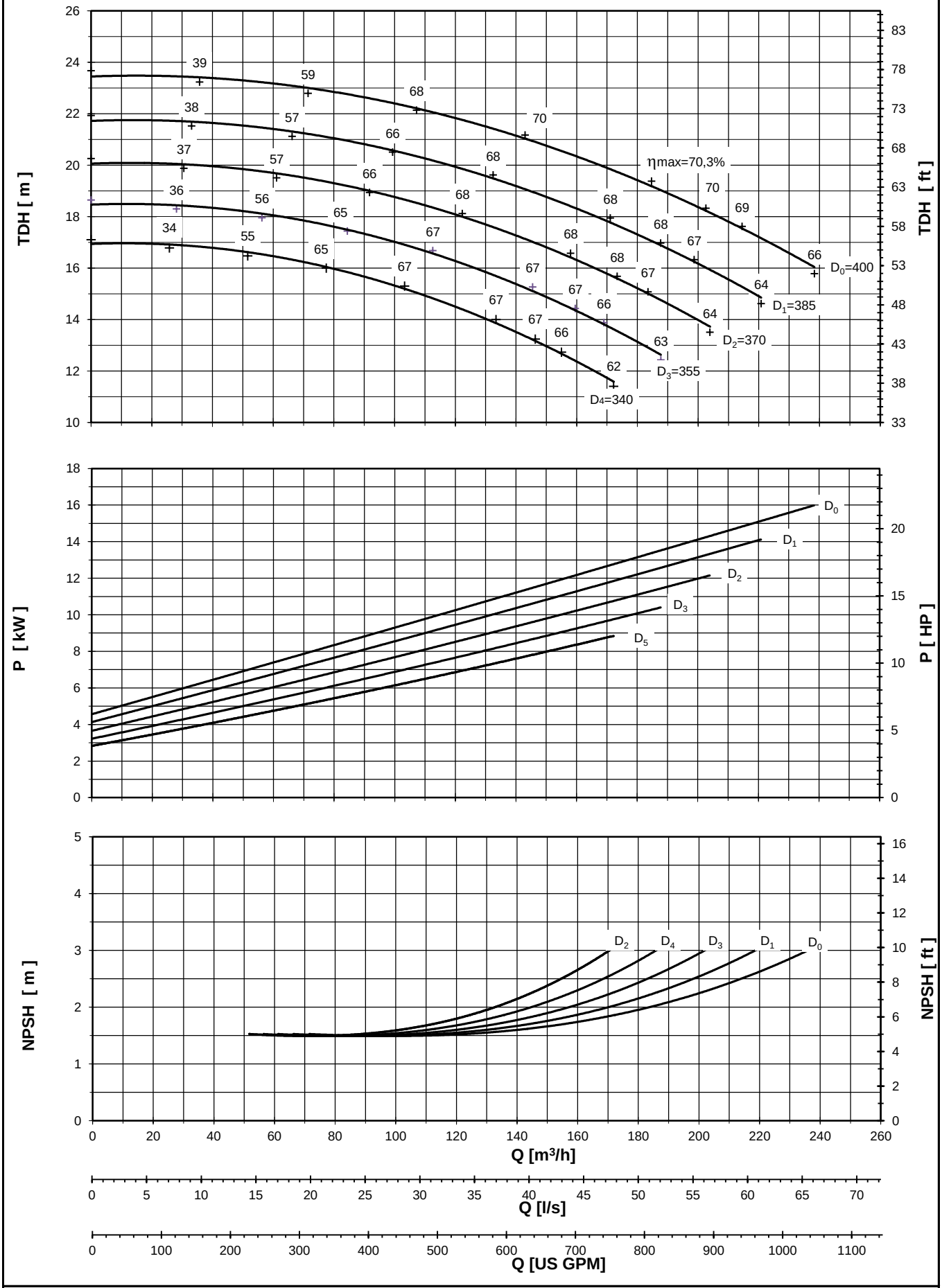
Performance curves are valid for clean cold water-kinematic viscosity 1 [mm^2/s], density 1000 [kg/m^3]. Methods and tolerances of presented performance curves are in accordance with ISO 9906 - Annex A

MZT PUMPI	PUMP PERFORMANCE CURVES No. 4HD.0244.06.R01	PUMP TYPE D 25-20-35 960 [rpm]



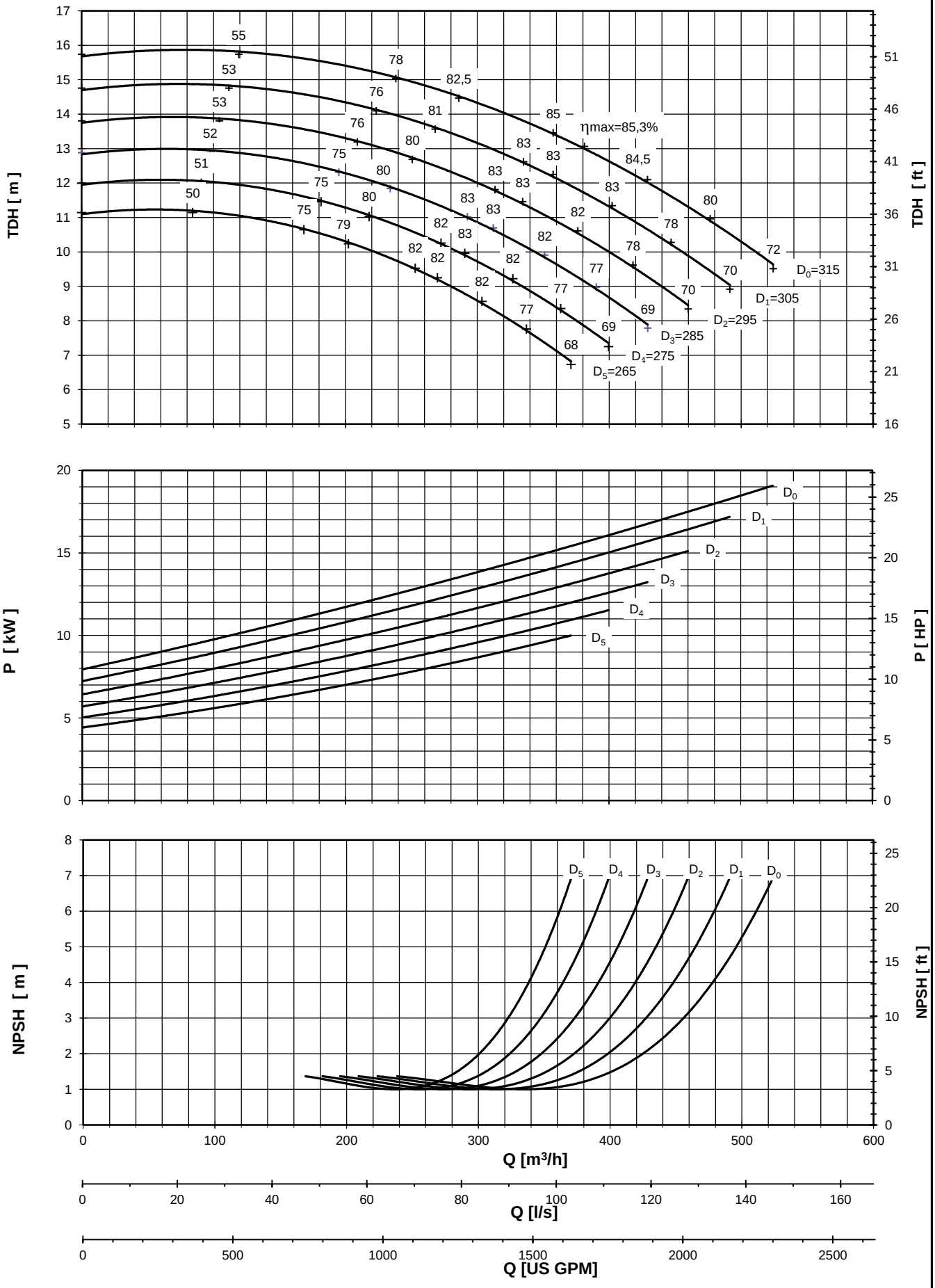
Performance curves are valid for clean cold water-kinematic viscosity 1 [mm^2/s], density 1000 [kg/m^3]. Methods and tolerances of presented performance curves are in accordance with ISO 9906 - Annex A

MZT PUMPI	PUMP PERFORMANCE CURVES No. 4HD.0259.06.R01	PUMP TYPE D 25-20-40 960 [rpm]



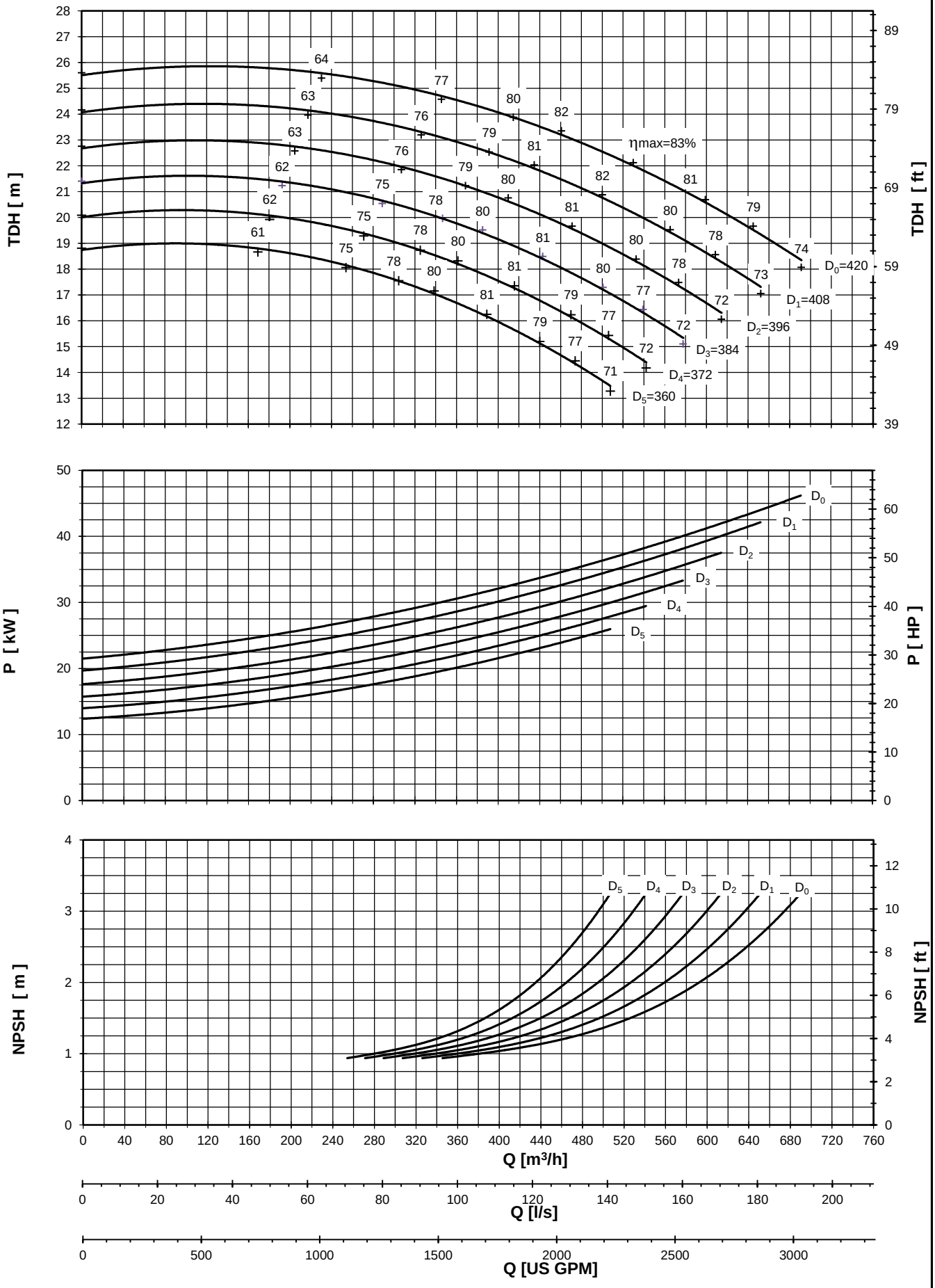
Performance curves are valid for clean cold water-kinematic viscosity 1 [mm^2/s], density 1000 [kg/m^3]. Methods and tolerances of presented performance curves are in accordance with ISO 9906 - Annex A

MZT PUMPI	PUMP PERFORMANCE CURVES No. 4HD.0219.06.R01	PUMP TYPE D 30-20-31 960 [rpm]



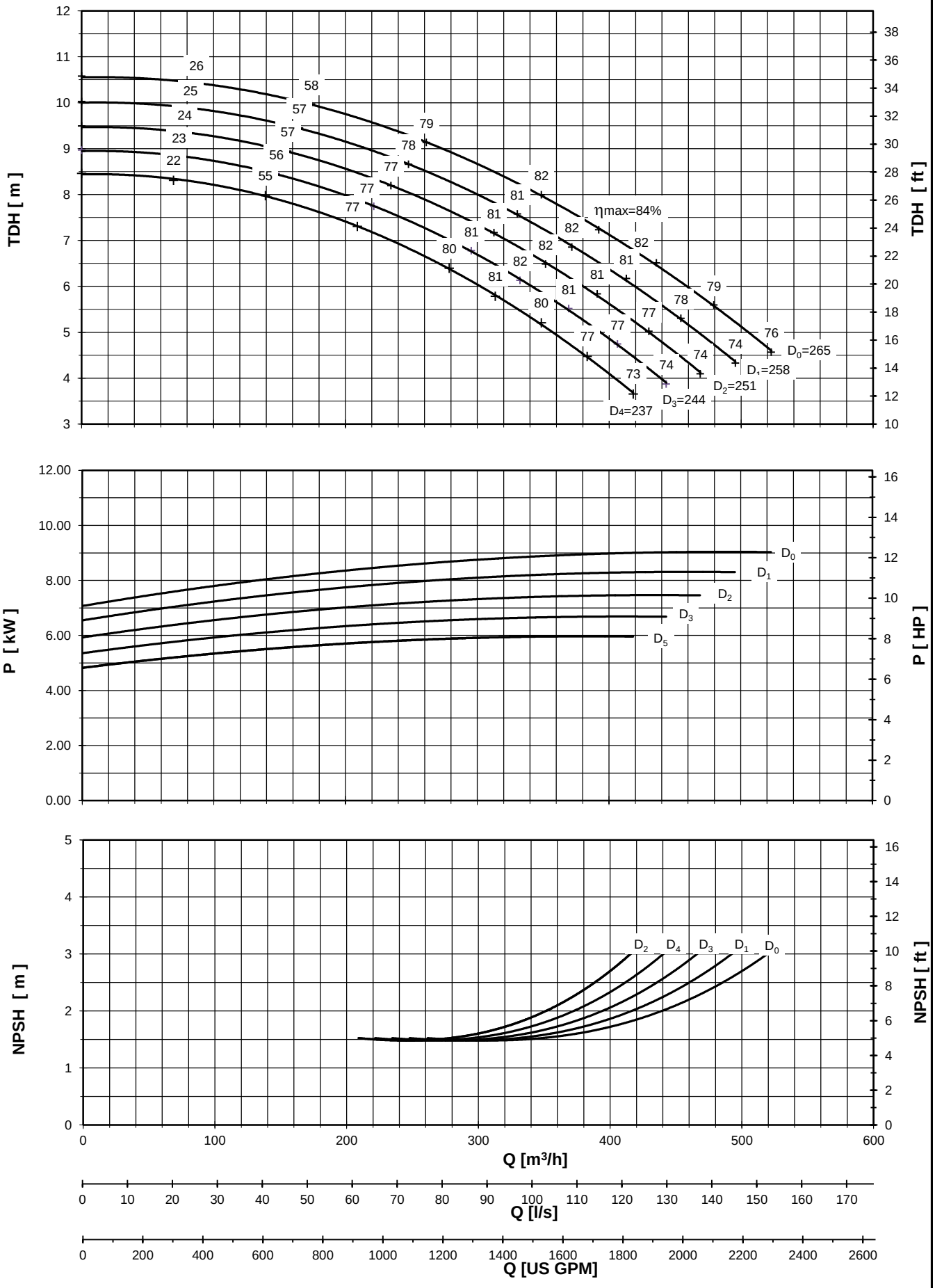
Performance curves are valid for clean cold water-kinematic viscosity 1 [mm^2/s], density 1000 [kg/m^3]. Methods and tolerances of presented performance curves are in accordance with ISO 9906 - Annex A

MZT PUMPI	PUMP PERFORMANCE CURVES No. 4HD.0232.06.R01	PUMP TYPE D 30-20-42 960 [rpm]



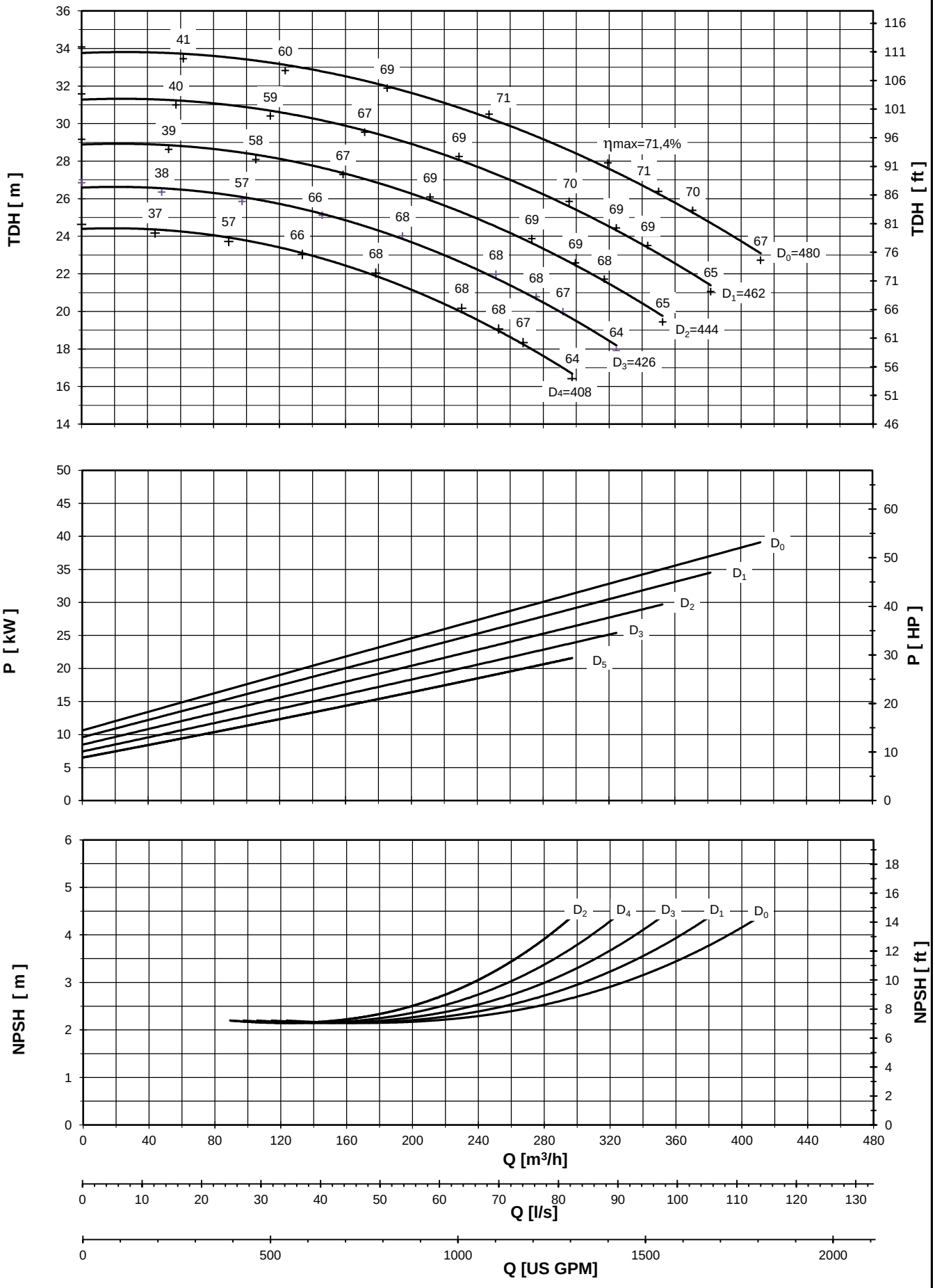
Performance curves are valid for clean cold water-kinematic viscosity 1 [mm^2/s], density 1000 [kg/m^3]. Methods and tolerances of presented performance curves are in accordance with ISO 9906 - Annex A

MZT PUMPI	PUMP PERFORMANCE CURVES No. 4HD.0252.06.R01	PUMP TYPE D 30-25-27 960 [rpm]



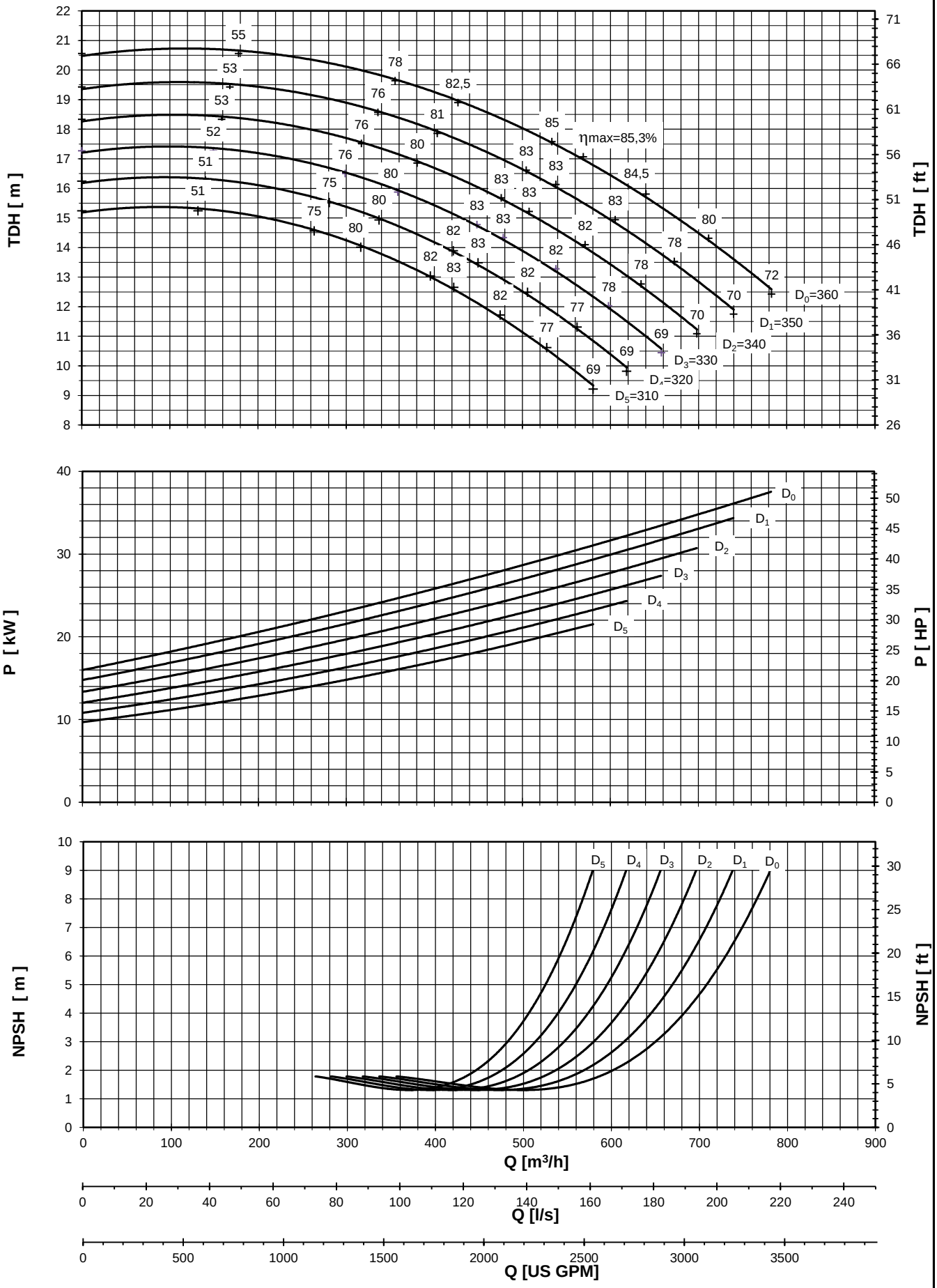
Performance curves are valid for clean cold water-kinematic viscosity 1 [mm^2/s], density 1000 [kg/m^3]. Methods and tolerances of presented performance curves are in accordance with ISO 9906 - Annex A

MZT PUMPI	PUMP PERFORMANCE CURVES No. 4HD.0260.06.R01	PUMP TYPE D 30-25-48 960 [rpm]



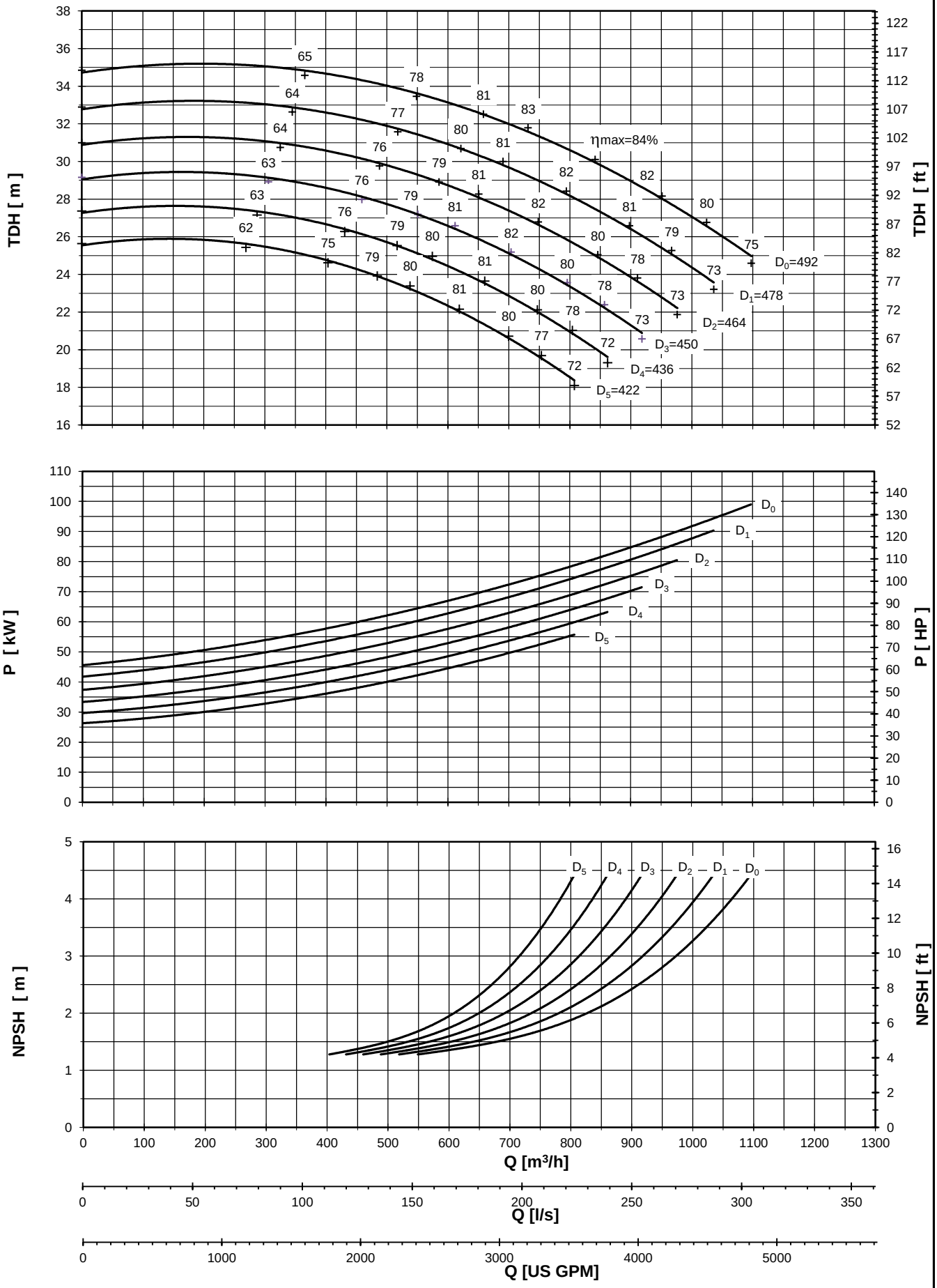
Performance curves are valid for clean cold water-kinematic viscosity 1 [mm^2/s], density 1000 [kg/m^3]. Methods and tolerances of presented performance curves are in accordance with ISO 9906 - Annex A

MZT PUMPI	PUMP PERFORMANCE CURVES No. 4HD.0220.06.R01	PUMP TYPE D 35-25-36 960 [rpm]



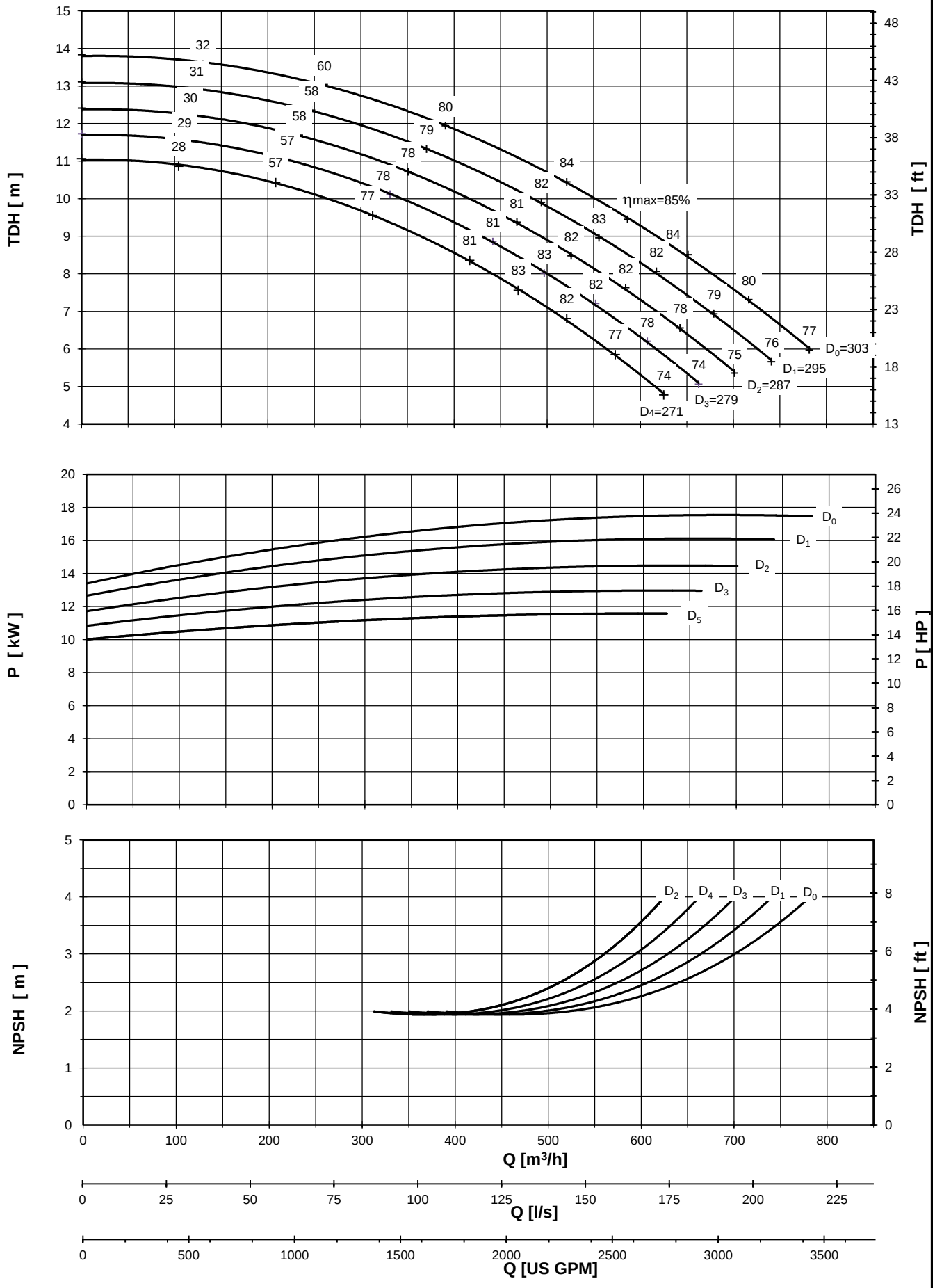
Performance curves are valid for clean cold water-kinematic viscosity 1 [mm^2/s], density 1000 [kg/m^3]. Methods and tolerances of presented performance curves are in accordance with ISO 9906 - Annex A

MZT PUMPI	PUMP PERFORMANCE CURVES No. 4HD.0246.06.R01	PUMP TYPE D 35-25-49 960 [rpm]



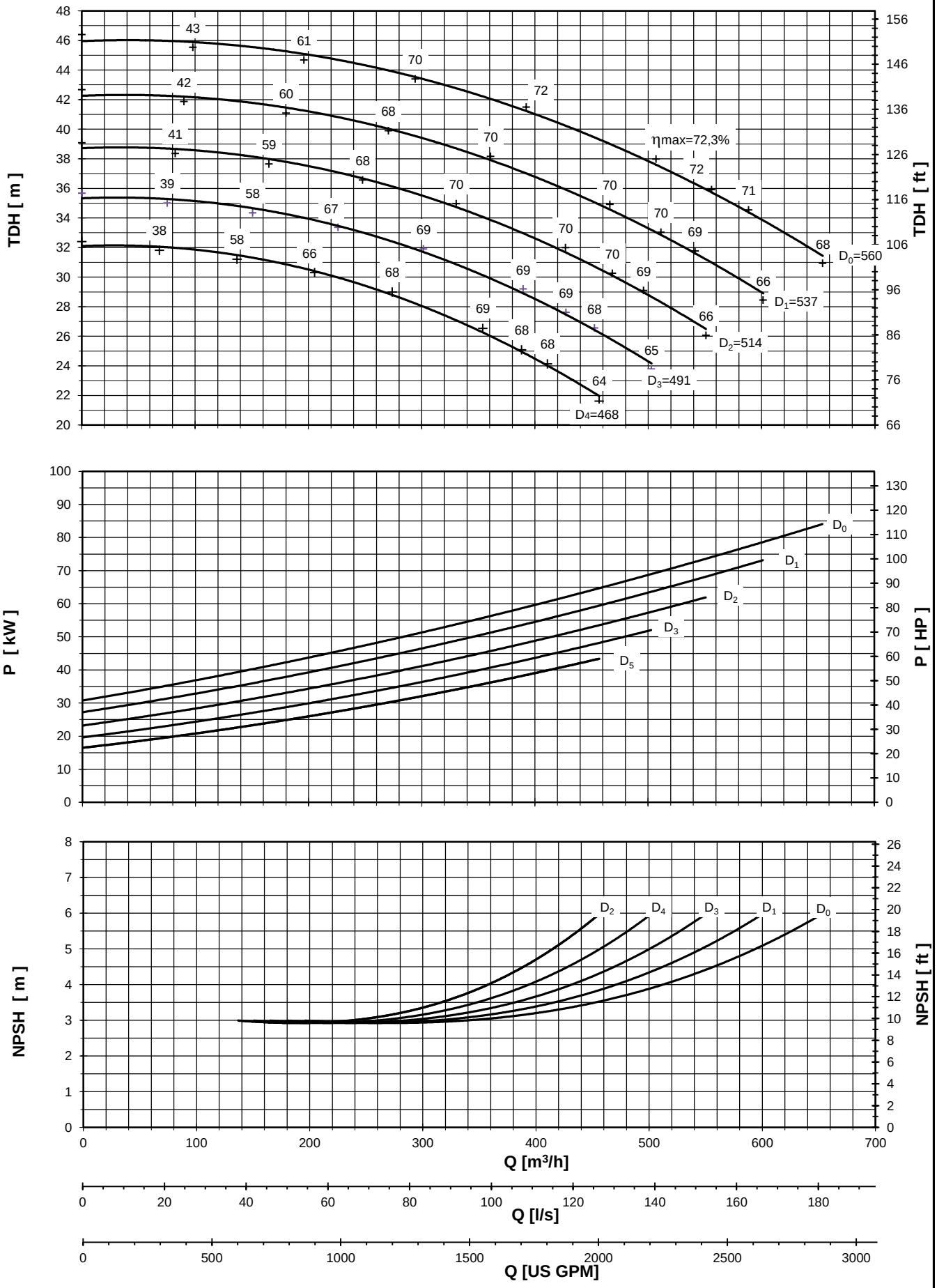
Performance curves are valid for clean cold water-kinematic viscosity 1 [mm^2/s], density 1000 [kg/m^3]. Methods and tolerances of presented performance curves are in accordance with ISO 9906 - Annex A

MZT PUMPI	PUMP PERFORMANCE CURVES No. 4HD.0266.06.R01	PUMP TYPE D 35-30-30 960 [rpm]



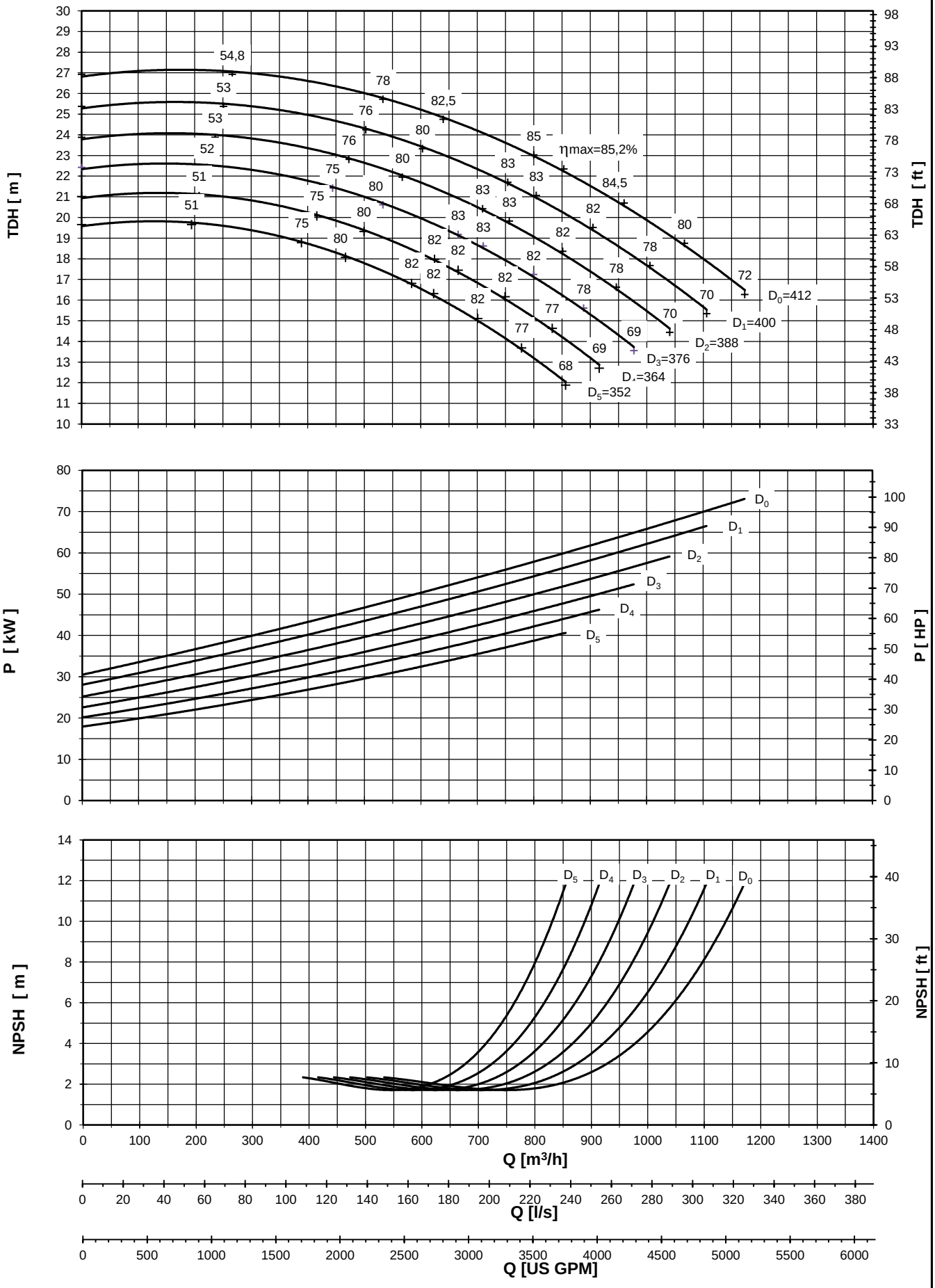
Performance curves are valid for clean cold water-kinematic viscosity 1 [mm^2/s], density 1000 [kg/m^3]. Methods and tolerances of presented performance curves are in accordance with ISO 9906 - Annex A

MZT PUMPI	PUMP PERFORMANCE CURVES No. 4HD.0261.06.R01	PUMP TYPE D 35-30-56 960 [rpm]



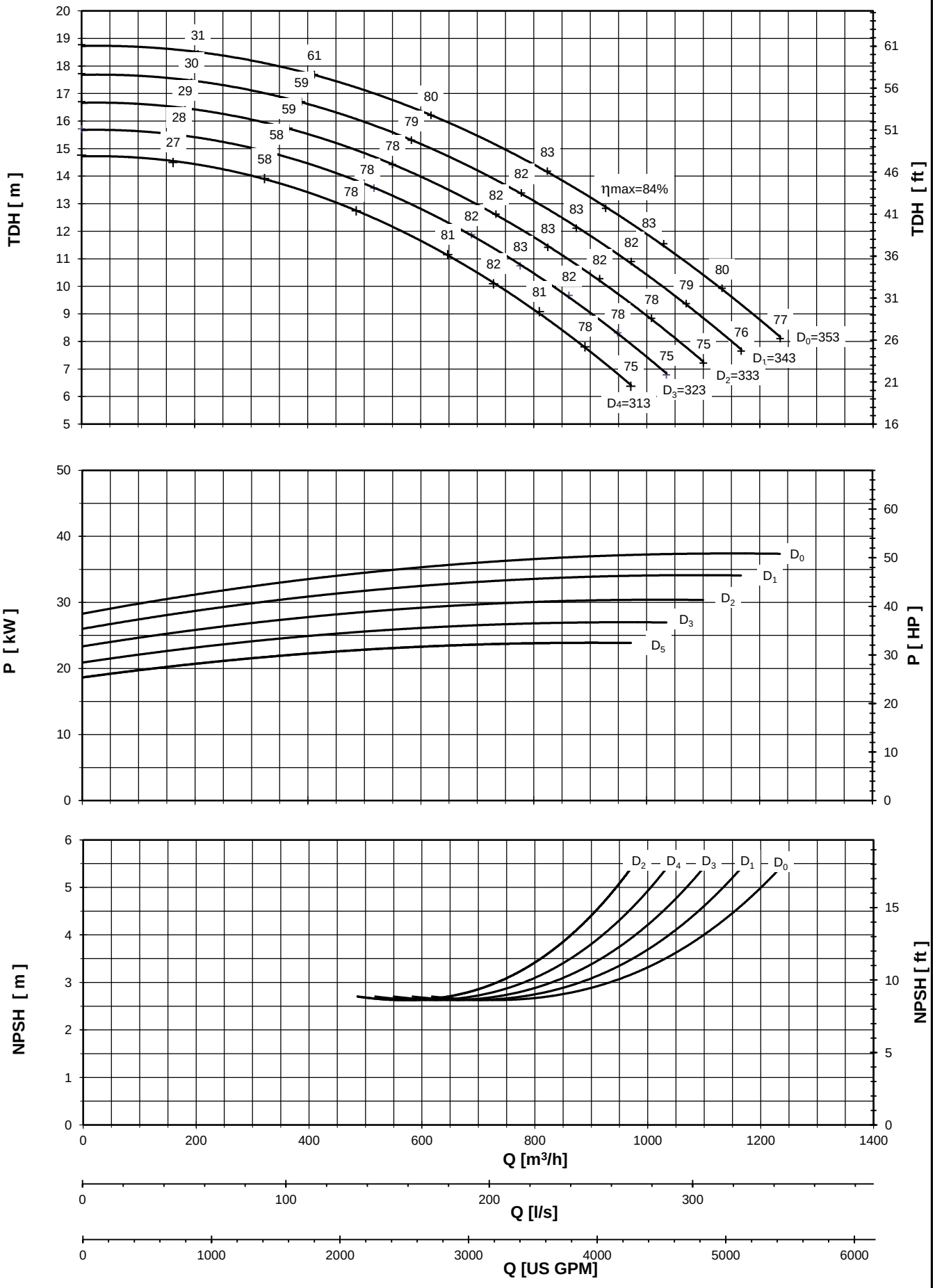
Performance curves are valid for clean cold water-kinematic viscosity 1 [mm^2/s], density 1000 [kg/m^3]. Methods and tolerances of presented performance curves are in accordance with ISO 9906 - Annex A

MZT PUMPI	PUMP PERFORMANCE CURVES No. 4HD.0221.06.R01	PUMP TYPE D 40-25-41 960 [rpm]



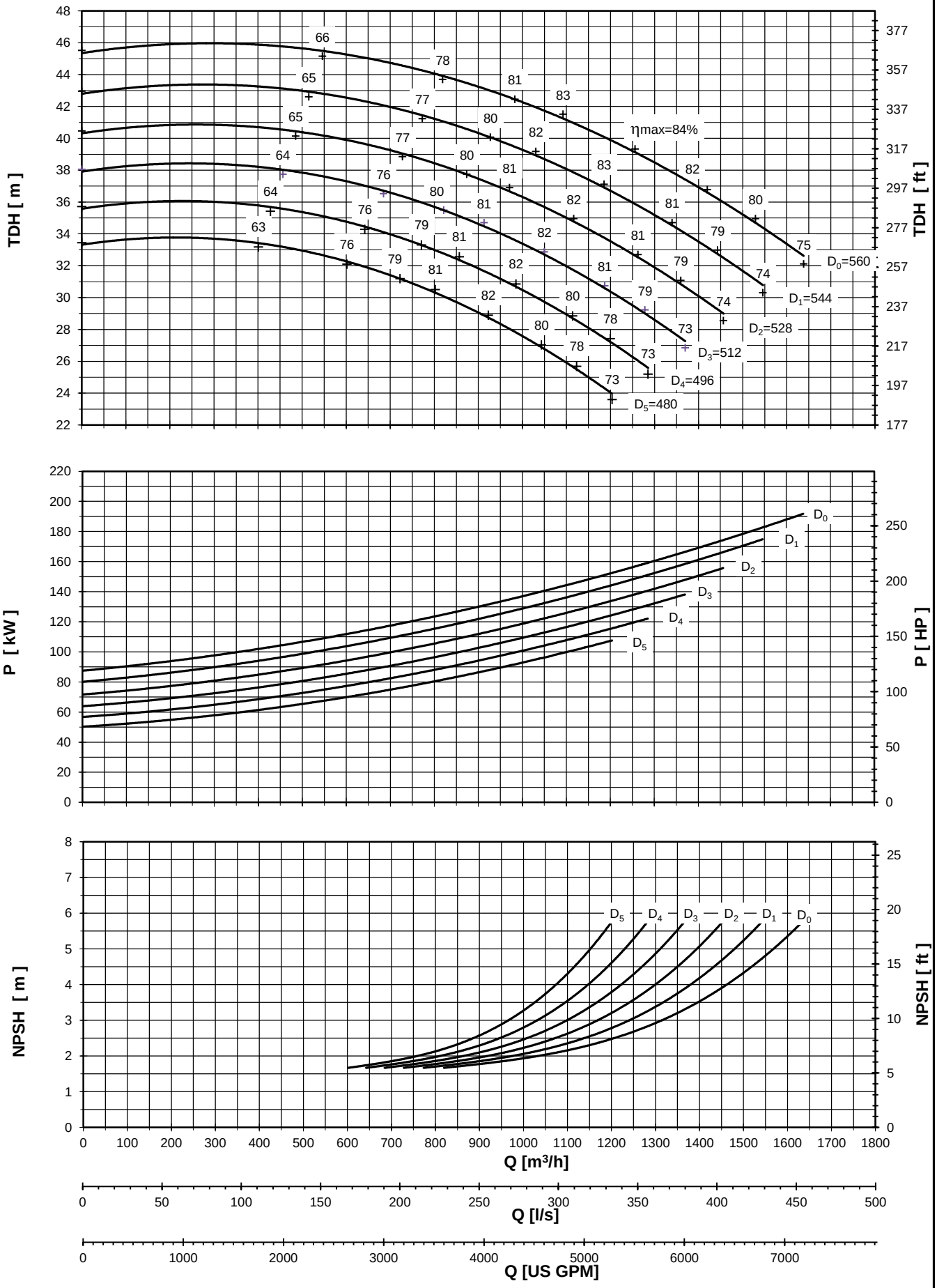
Performance curves are valid for clean cold water-kinematic viscosity 1 [mm^2/s], density 1000 [kg/m^3]. Methods and tolerances of presented performance curves are in accordance with ISO 9906 - Annex A

MZT PUMPI	PUMP PERFORMANCE CURVES No. 4HD.0253.06.R01	PUMP TYPE D 40-30-35 960 [rpm]



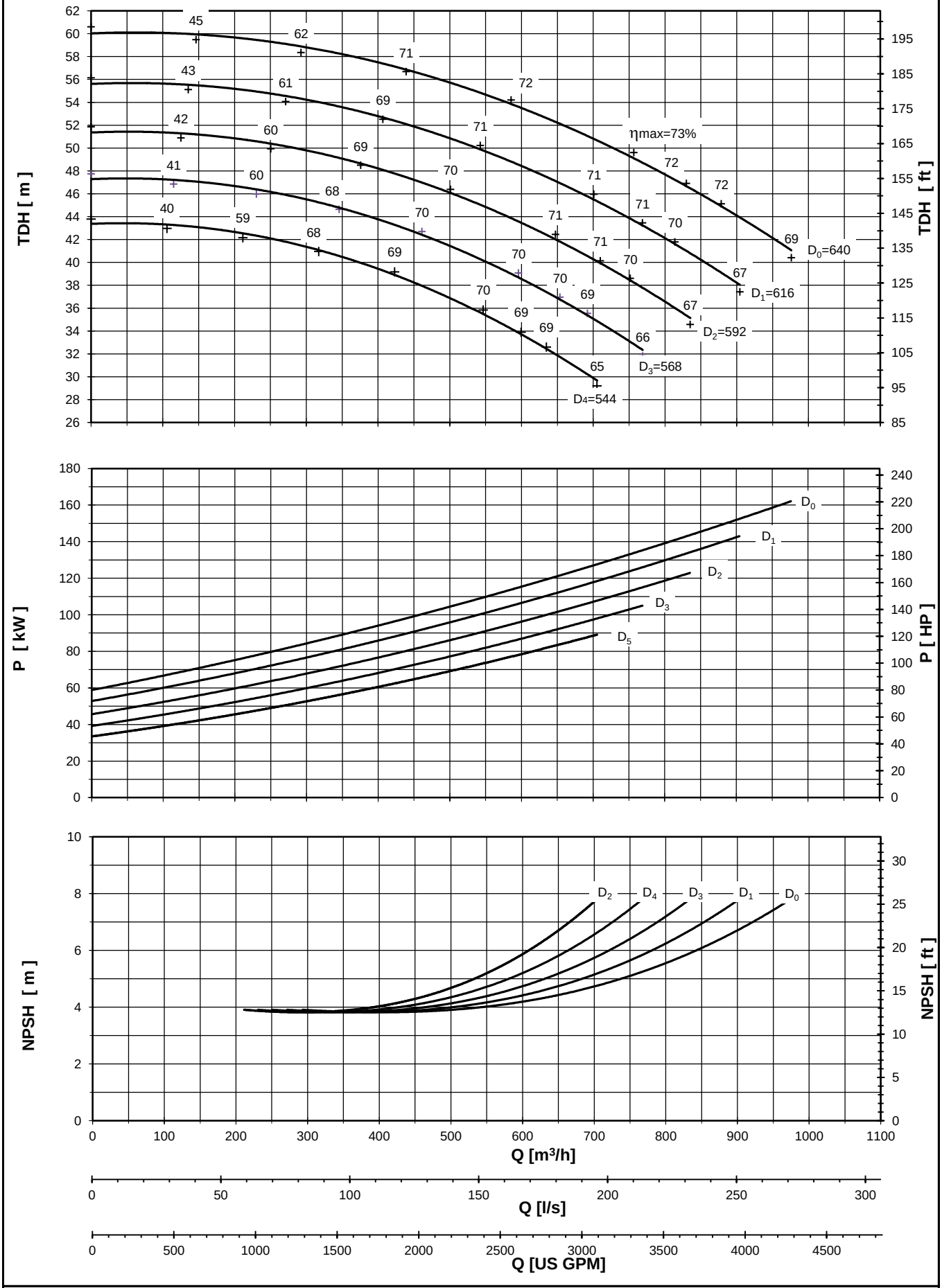
Performance curves are valid for clean cold water-kinematic viscosity 1 [mm^2/s], density 1000 [kg/m^3]. Methods and tolerances of presented performance curves are in accordance with ISO 9906 - Annex A

MZT PUMPI	PUMP PERFORMANCE CURVES No. 4HD.0247.06.R01	PUMP TYPE D 40-30-56 960 [rpm]



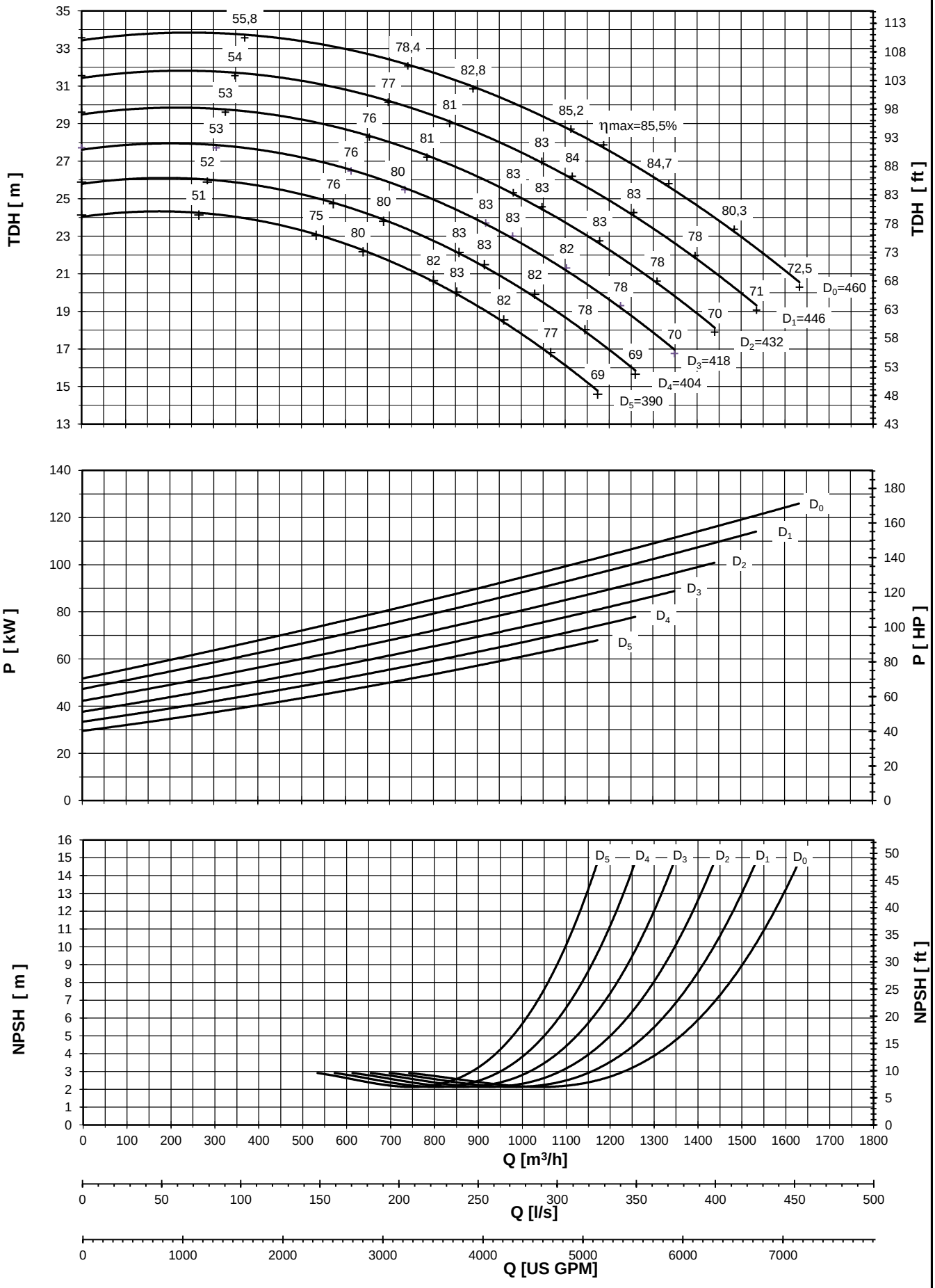
Performance curves are valid for clean cold water-kinematic viscosity 1 [mm^2/s], density 1000 [kg/m^3]. Methods and tolerances of presented performance curves are in accordance with ISO 9906 - Annex A

MZT PUMPI	PUMP PERFORMANCE CURVES No. 4HD.0262.06.R01	PUMP TYPE D 40-35-64 960 [rpm]



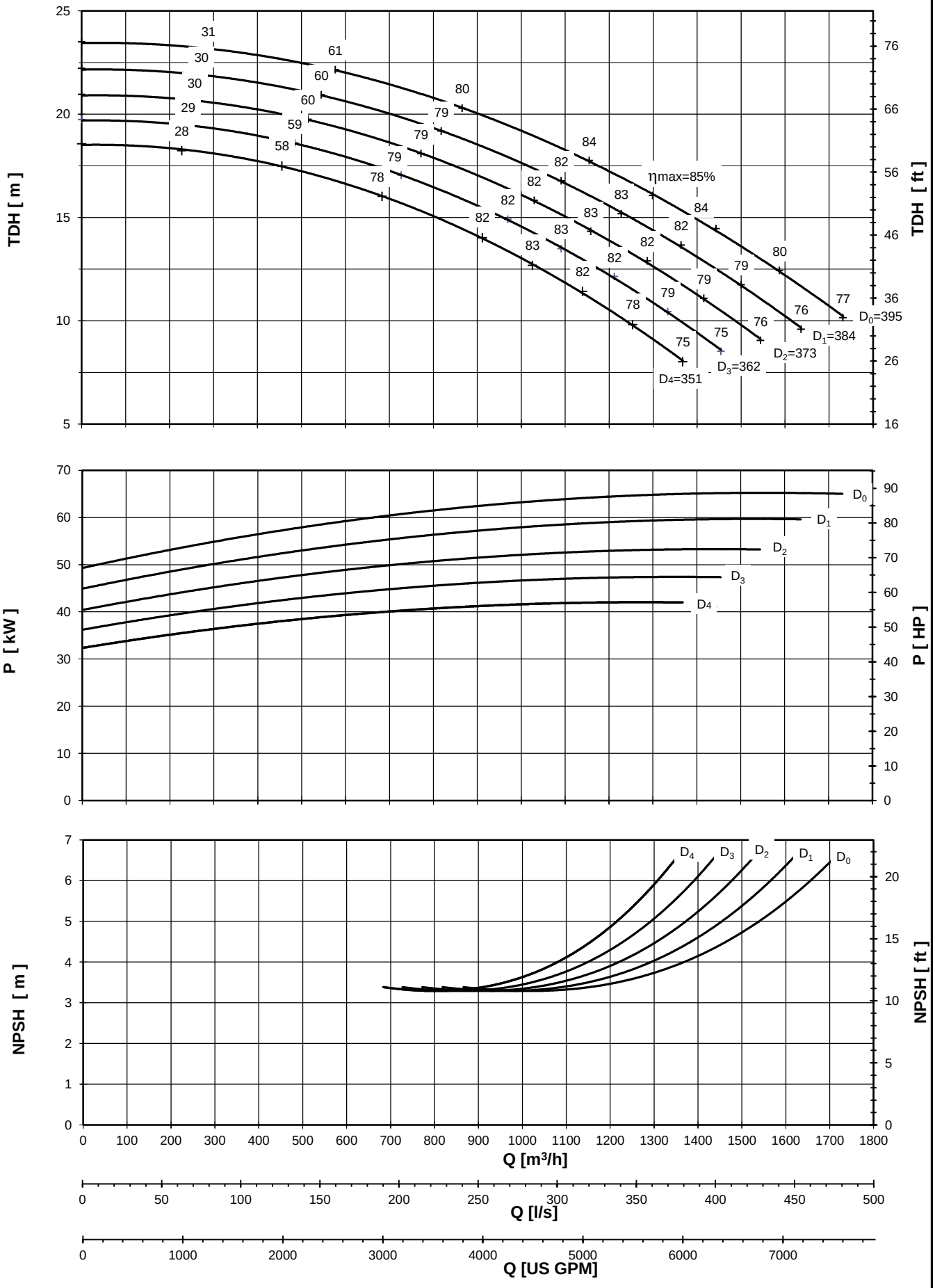
Performance curves are valid for clean cold water-kinematic viscosity 1 [mm^2/s], density 1000 [kg/m^3]. Methods and tolerances of presented performance curves are in accordance with ISO 9906 - Annex A

MZT PUMPI	PUMP PERFORMANCE CURVES No. 4HD.0222.06.R01	PUMP TYPE D 45-30-46 960 [rpm]



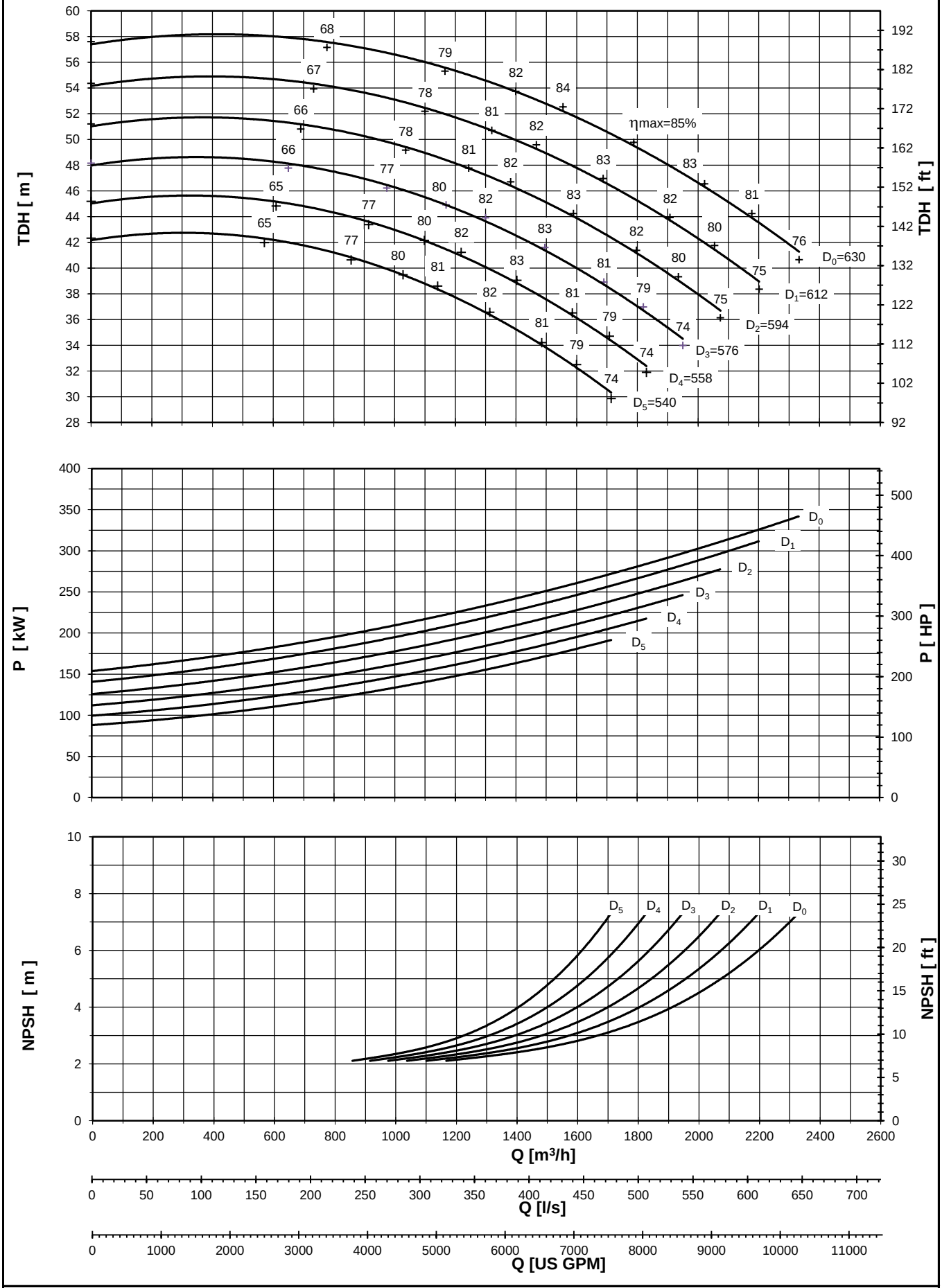
Performance curves are valid for clean cold water-kinematic viscosity 1 [mm^2/s], density 1000 [kg/m^3]. Methods and tolerances of presented performance curves are in accordance with ISO 9906 - Annex A

MZT PUMPI	PUMP PERFORMANCE CURVES No. 4HD.0265.06.R01	PUMP TYPE D 45-35-39 960 [rpm]



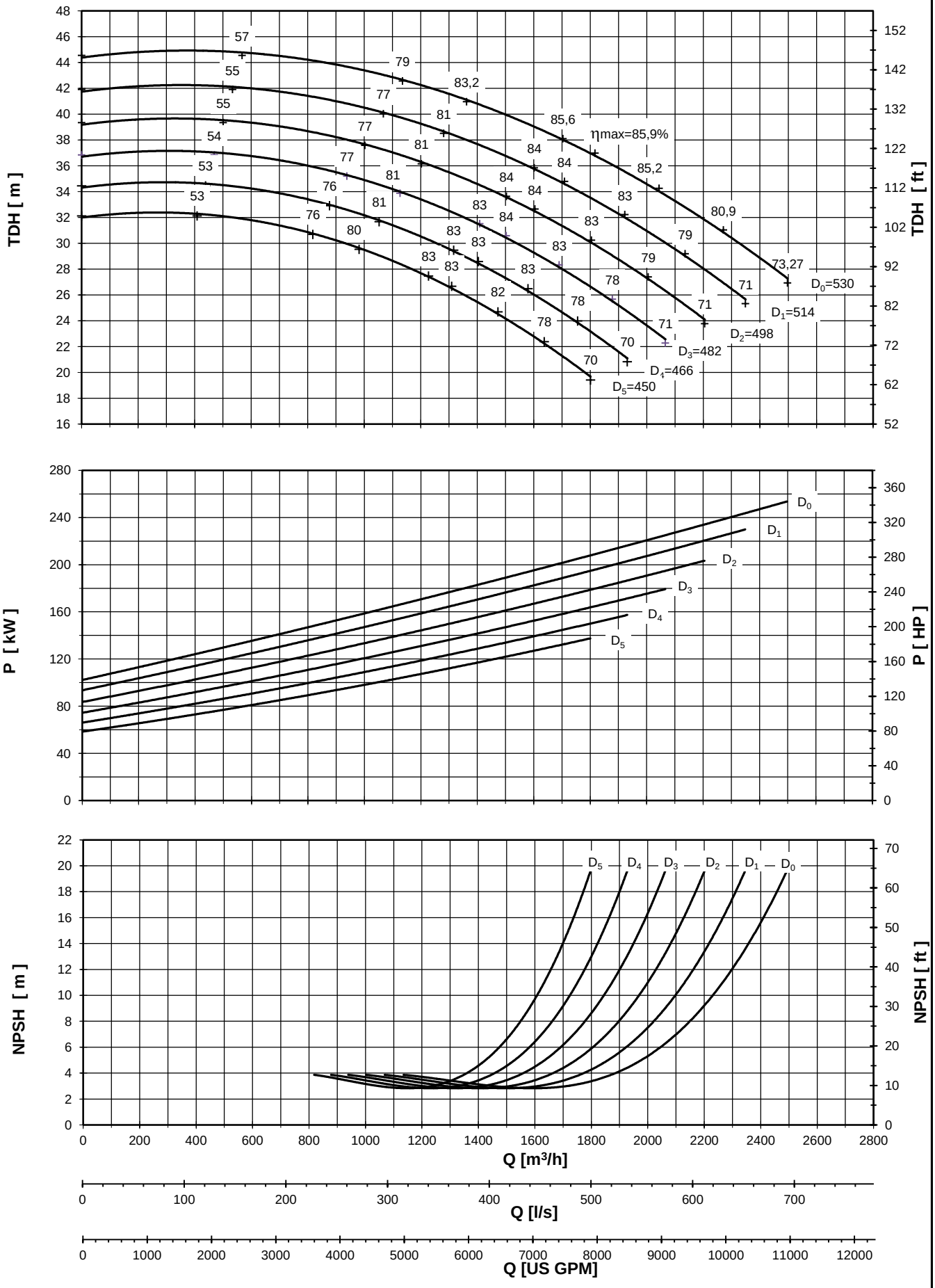
Performance curves are valid for clean cold water-kinematic viscosity 1 [mm^2/s], density 1000 [kg/m^3]. Methods and tolerances of presented performance curves are in accordance with ISO 9906 - Annex A

MZT PUMPI	PUMP PERFORMANCE CURVES No. 4HD.0249.06.R01	PUMP TYPE D 45-35-63 960 [rpm]



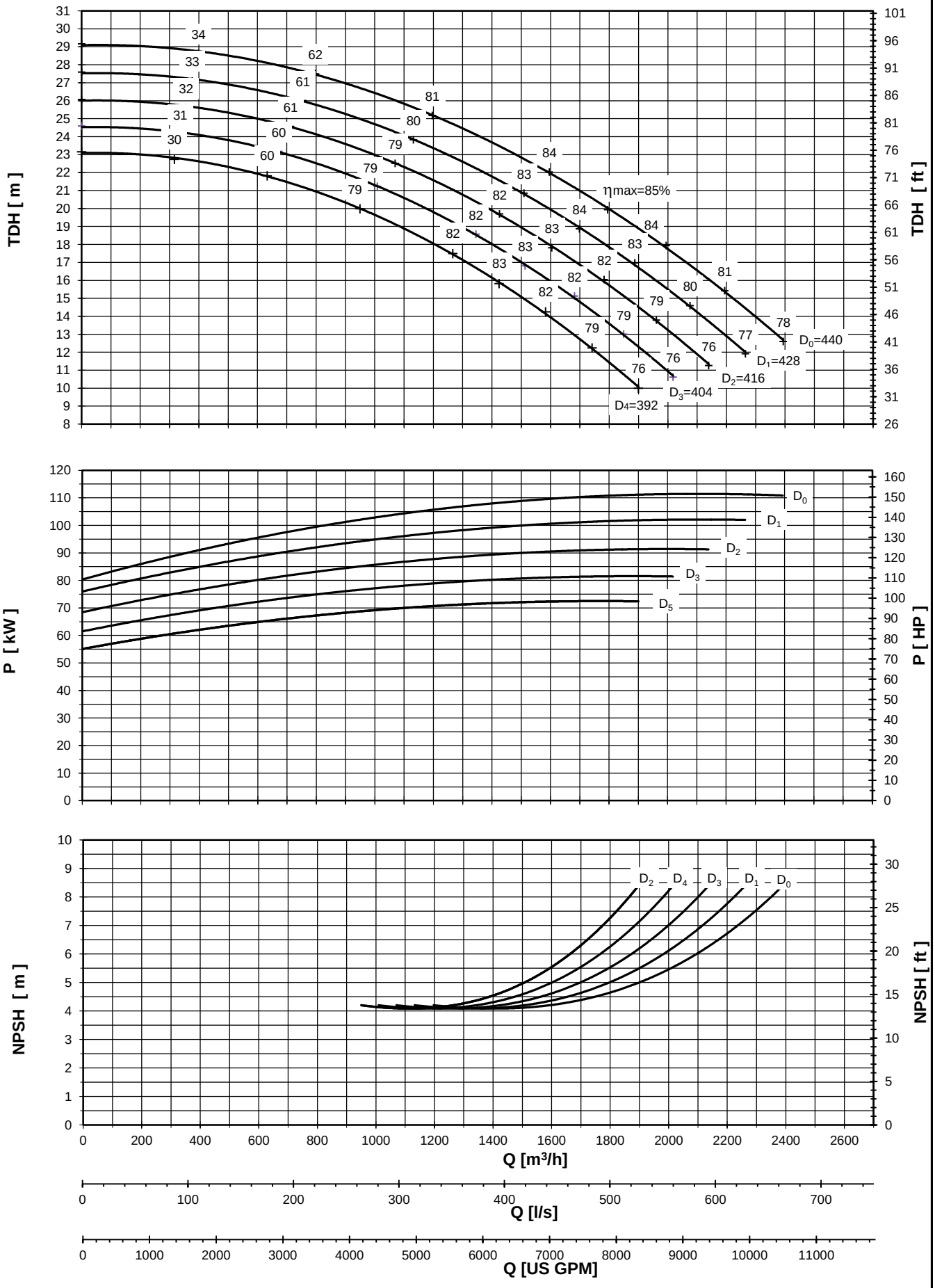
Performance curves are valid for clean cold water-kinematic viscosity 1 [mm^2/s], density 1000 [kg/m^3]. Methods and tolerances of presented performance curves are in accordance with ISO 9906 - Annex A

MZT PUMPI	PUMP PERFORMANCE CURVES No. 4HD.0223.06.R01	PUMP TYPE D 50-35-53 960 [rpm]



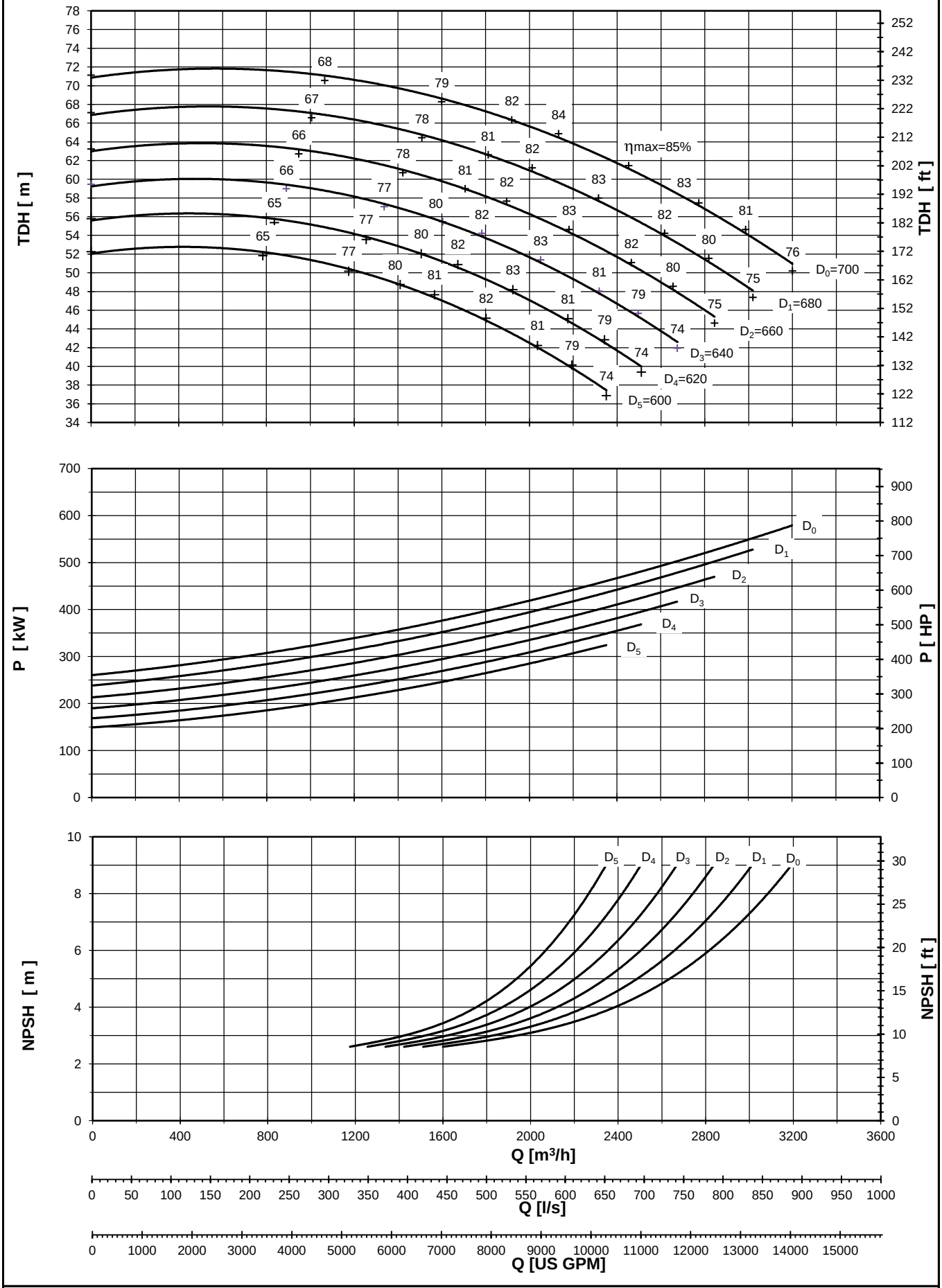
Performance curves are valid for clean cold water-kinematic viscosity 1 [mm^2/s], density 1000 [kg/m^3]. Methods and tolerances of presented performance curves are in accordance with ISO 9906 - Annex A

MZT PUMPI	PUMP PERFORMANCE CURVES No. 4HD.0254.06.R01	PUMP TYPE D 50-40-44 960 [rpm]



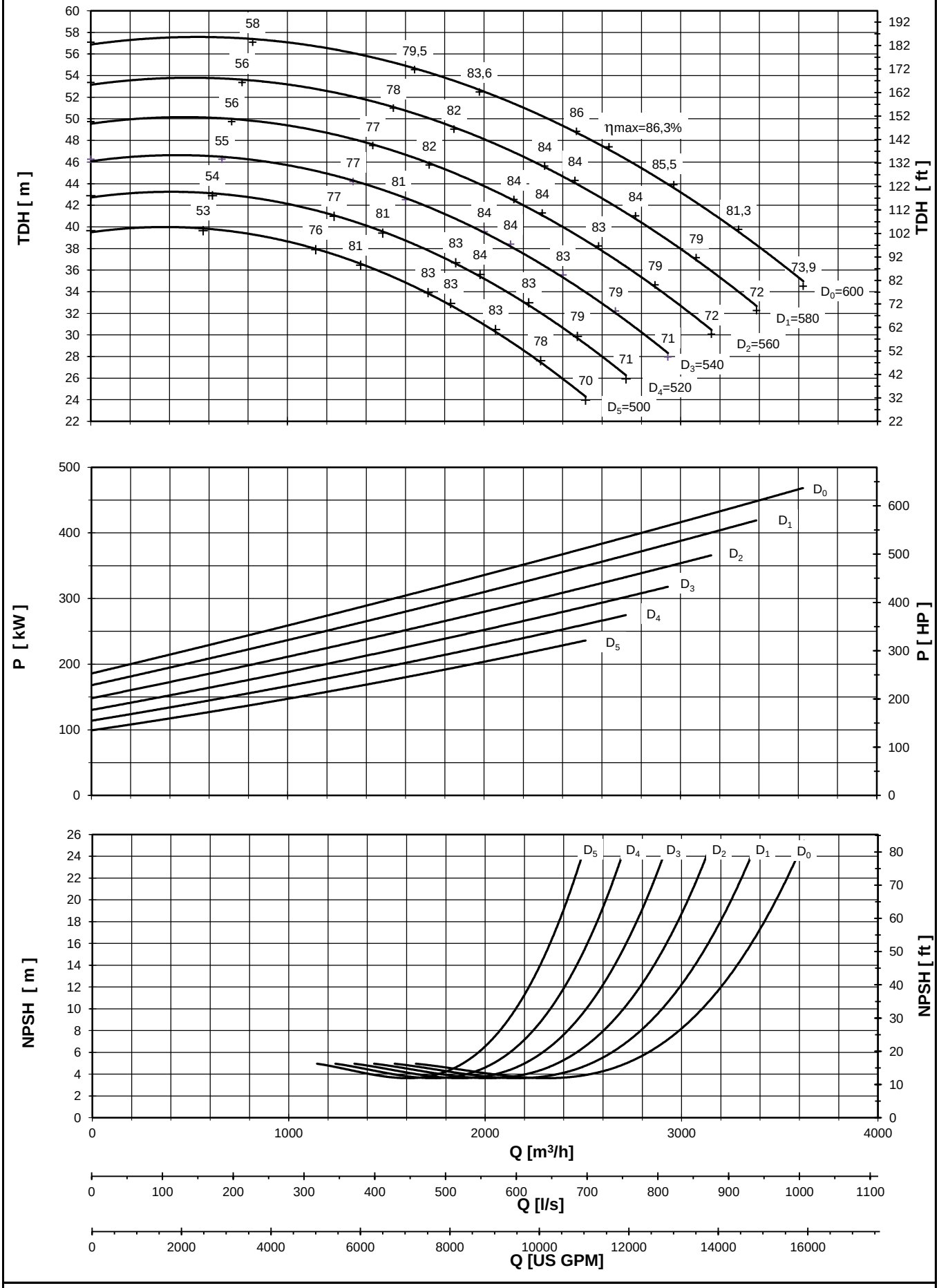
Performance curves are valid for clean cold water-kinematic viscosity 1 [mm^2/s], density 1000 [kg/m^3]. Methods and tolerances of presented performance curves are in accordance with ISO 9906 - Annex A

MZT PUMPI	PUMP PERFORMANCE CURVES No. 4HD.0250.06.R01	PUMP TYPE D 50-40-70 960 [rpm]



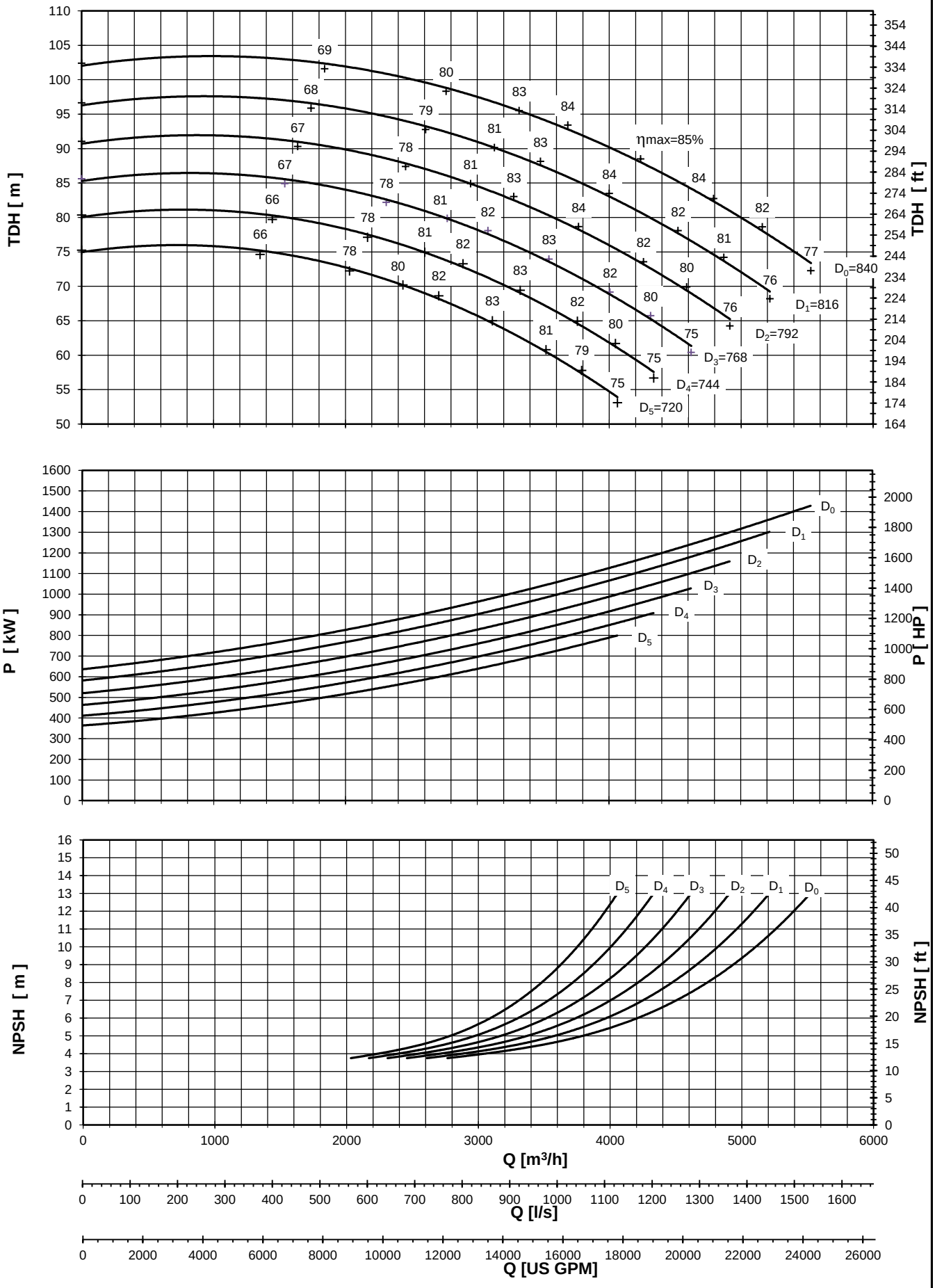
Performance curves are valid for clean cold water-kinematic viscosity 1 [mm^2/s], density 1000 [kg/m^3]. Methods and tolerances of presented performance curves are in accordance with ISO 9906 - Annex A

MZT PUMPI	PUMP PERFORMANCE CURVES No. 4HD.0224.06.R01	PUMP TYPE D 60-40-60 960 [rpm]



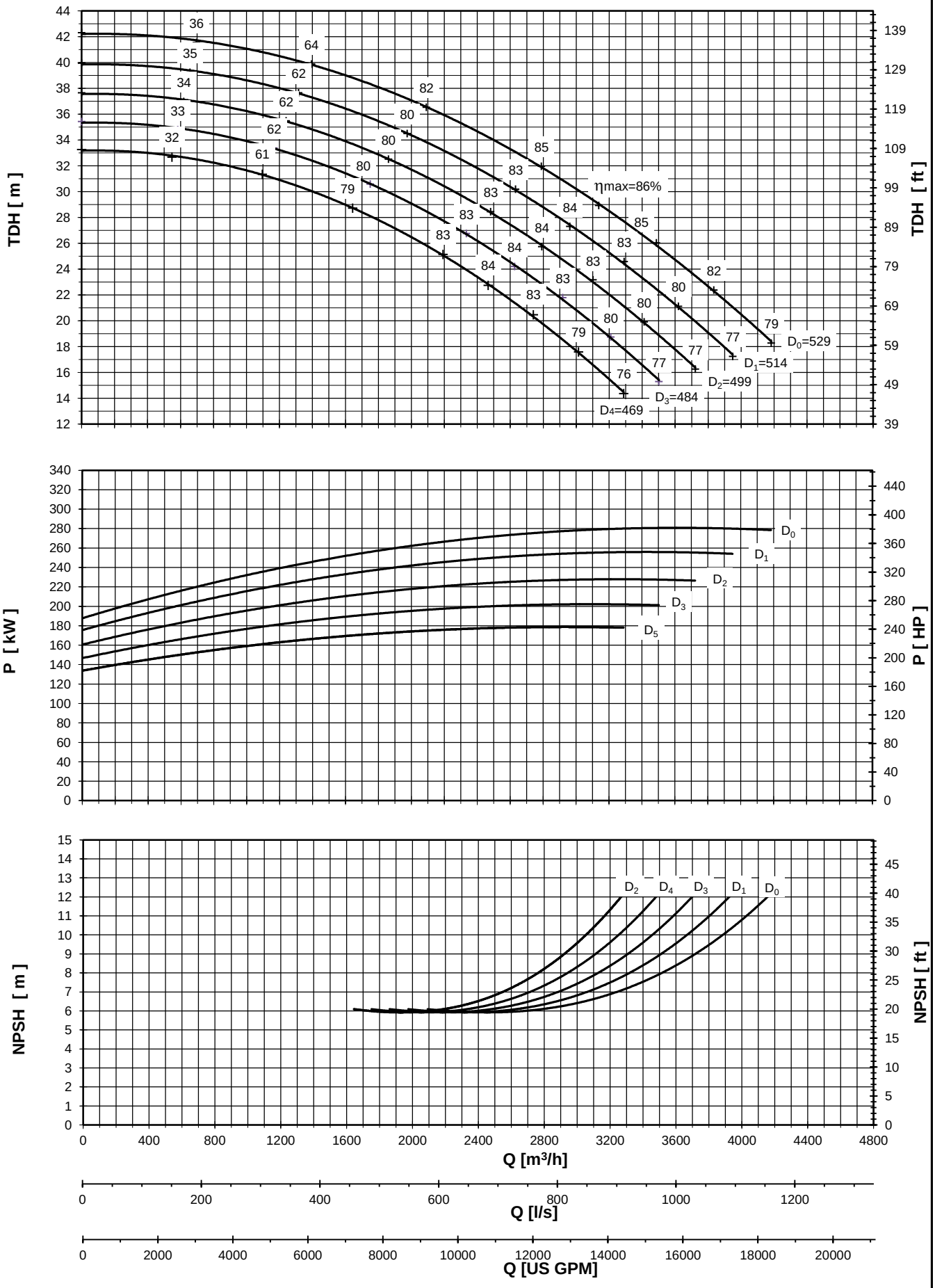
Performance curves are valid for clean cold water-kinematic viscosity 1 [mm^2/s], density 1000 [kg/m^3]. Methods and tolerances of presented performance curves are in accordance with ISO 9906 - Annex A

MZT PUMPI	PUMP PERFORMANCE CURVES No. 4HD.0251.06.R01	PUMP TYPE D 60-40-84 960 [rpm]



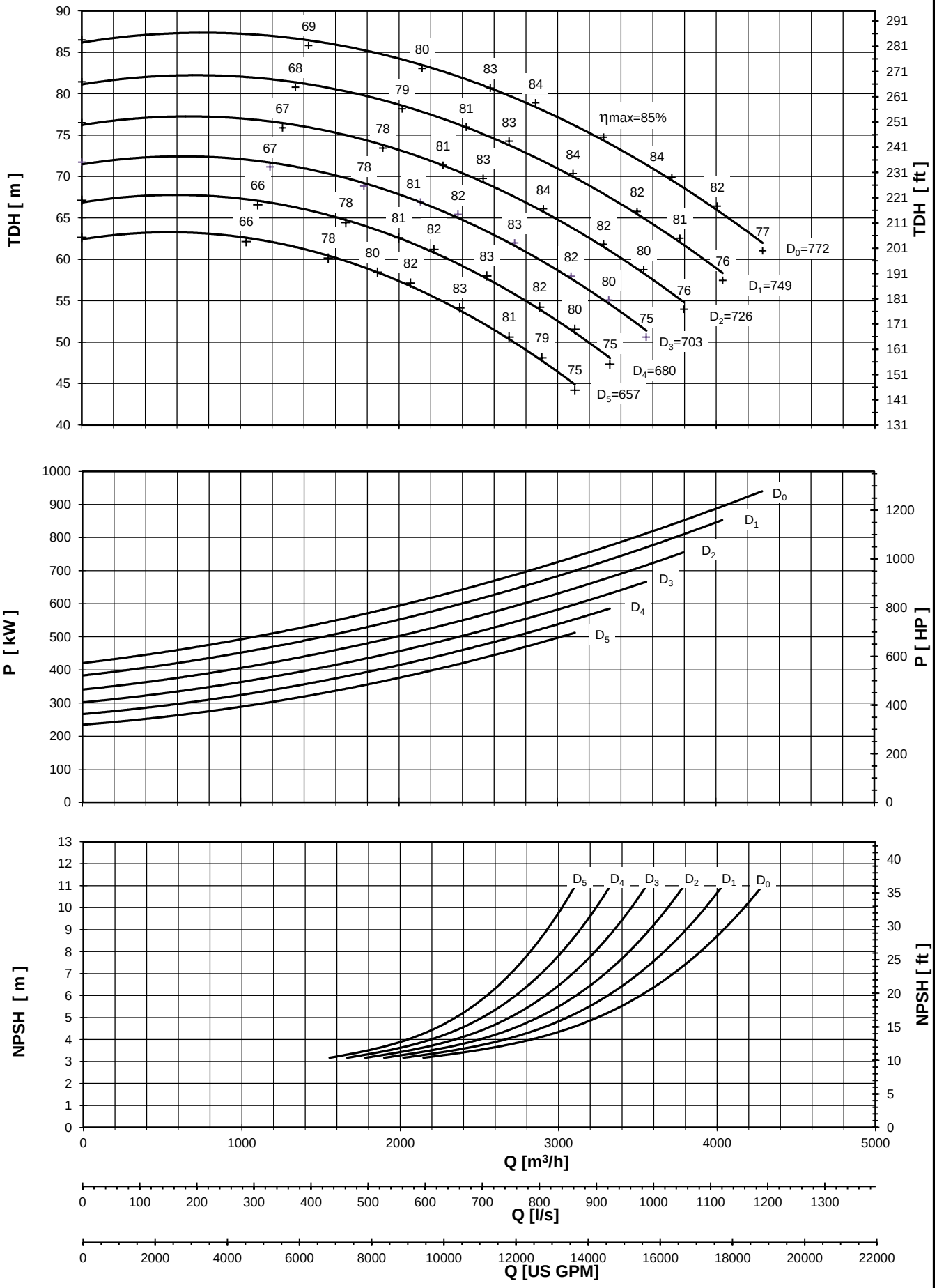
Performance curves are valid for clean cold water-kinematic viscosity 1 [mm^2/s], density 1000 [kg/m^3]. Methods and tolerances of presented performance curves are in accordance with ISO 9906 - Annex A

MZT PUMPI	PUMP PERFORMANCE CURVES No. 4HD.0255.06.R01	PUMP TYPE D 60-45-53 960 [rpm]



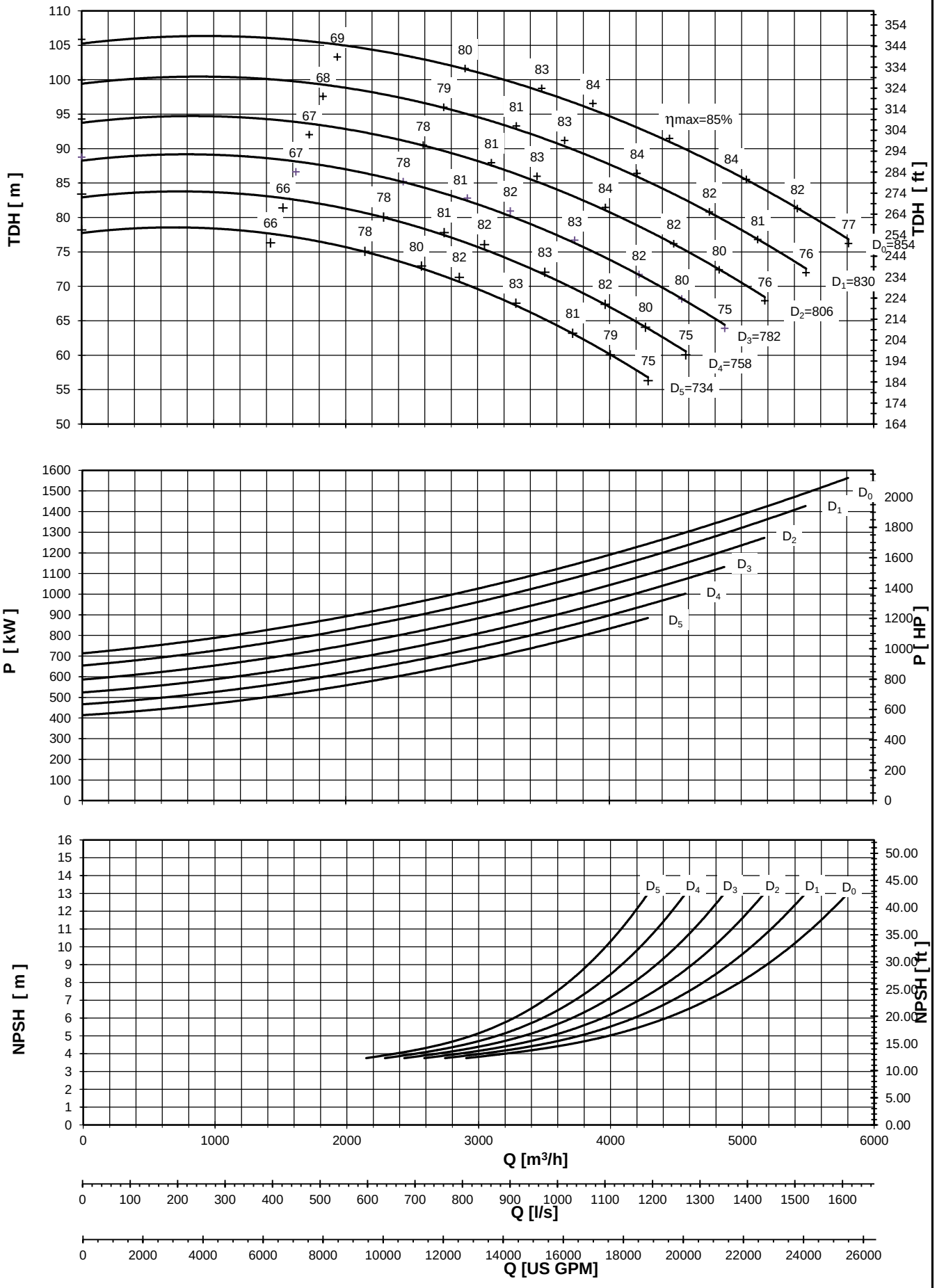
Performance curves are valid for clean cold water-kinematic viscosity 1 [mm^2/s], density 1000 [kg/m^3]. Methods and tolerances of presented performance curves are in accordance with ISO 9906 - Annex A

MZT PUMPI	PUMP PERFORMANCE CURVES No. 4HD.0267.06.R01	PUMP TYPE D 60-45-77 960 [rpm]



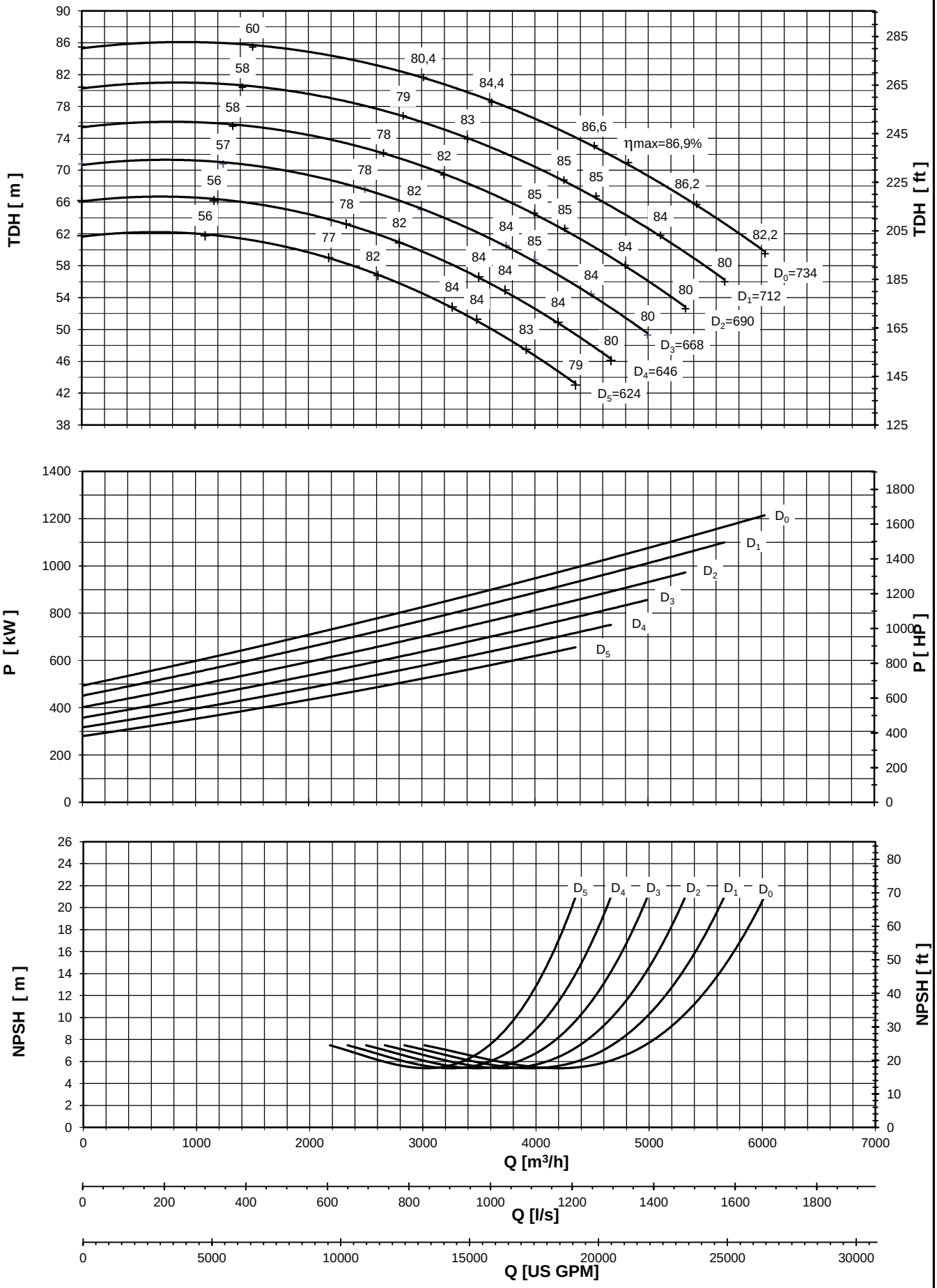
Performance curves are valid for clean cold water-kinematic viscosity 1 [mm^2/s], density 1000 [kg/m^3]. Methods and tolerances of presented performance curves are in accordance with ISO 9906 - Annex A

MZT PUMPI	PUMP PERFORMANCE CURVES No. 4HD.0251.06.R01	PUMP TYPE D 60-50-85 960 [rpm]



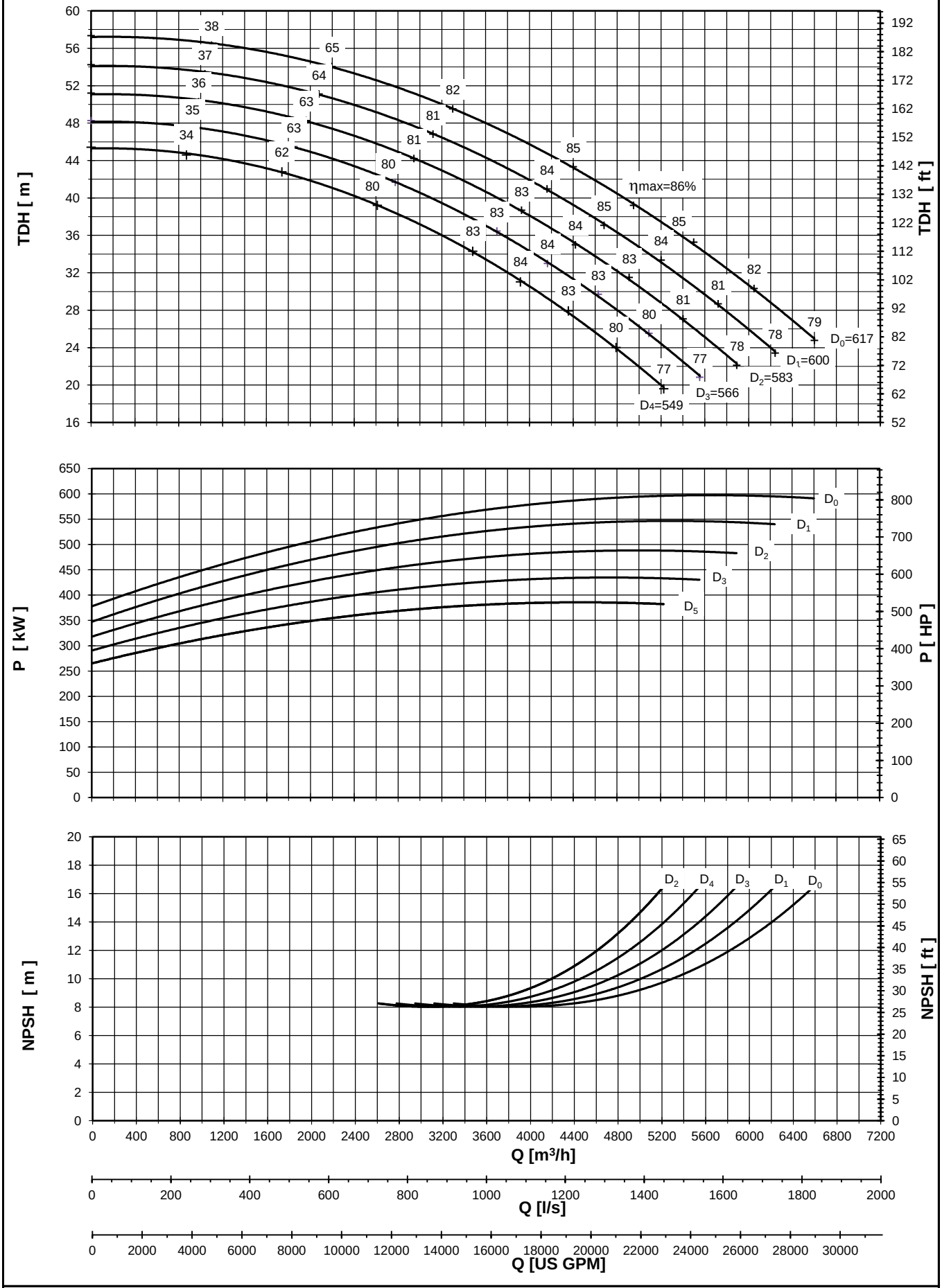
Performance curves are valid for clean cold water-kinematic viscosity 1 [mm^2/s], density 1000 [kg/m^3]. Methods and tolerances of presented performance curves are in accordance with ISO 9906 - Annex A

MZT PUMPI	PUMP PERFORMANCE CURVES No. 4HD.0263.06.R01	PUMP TYPE D 70-50-74 960 [rpm]



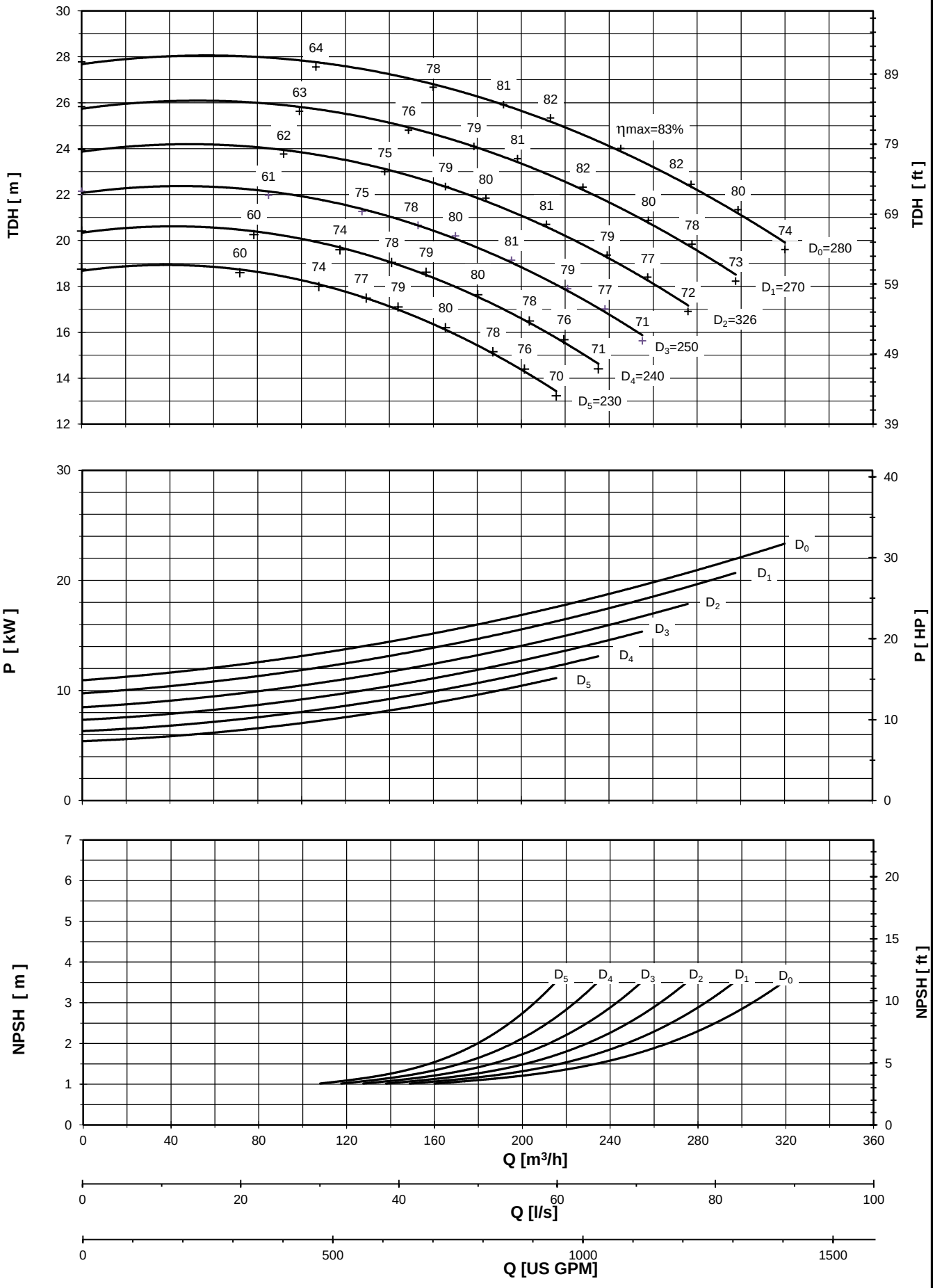
Performance curves are valid for clean cold water-kinematic viscosity 1 [mm^2/s], density 1000 [kg/m^3]. Methods and tolerances of presented performance curves are in accordance with ISO 9906 - Annex A

MZT PUMPI	PUMP PERFORMANCE CURVES No. 4HD.0256.06.R01	PUMP TYPE D 70-60-62 960 [rpm]



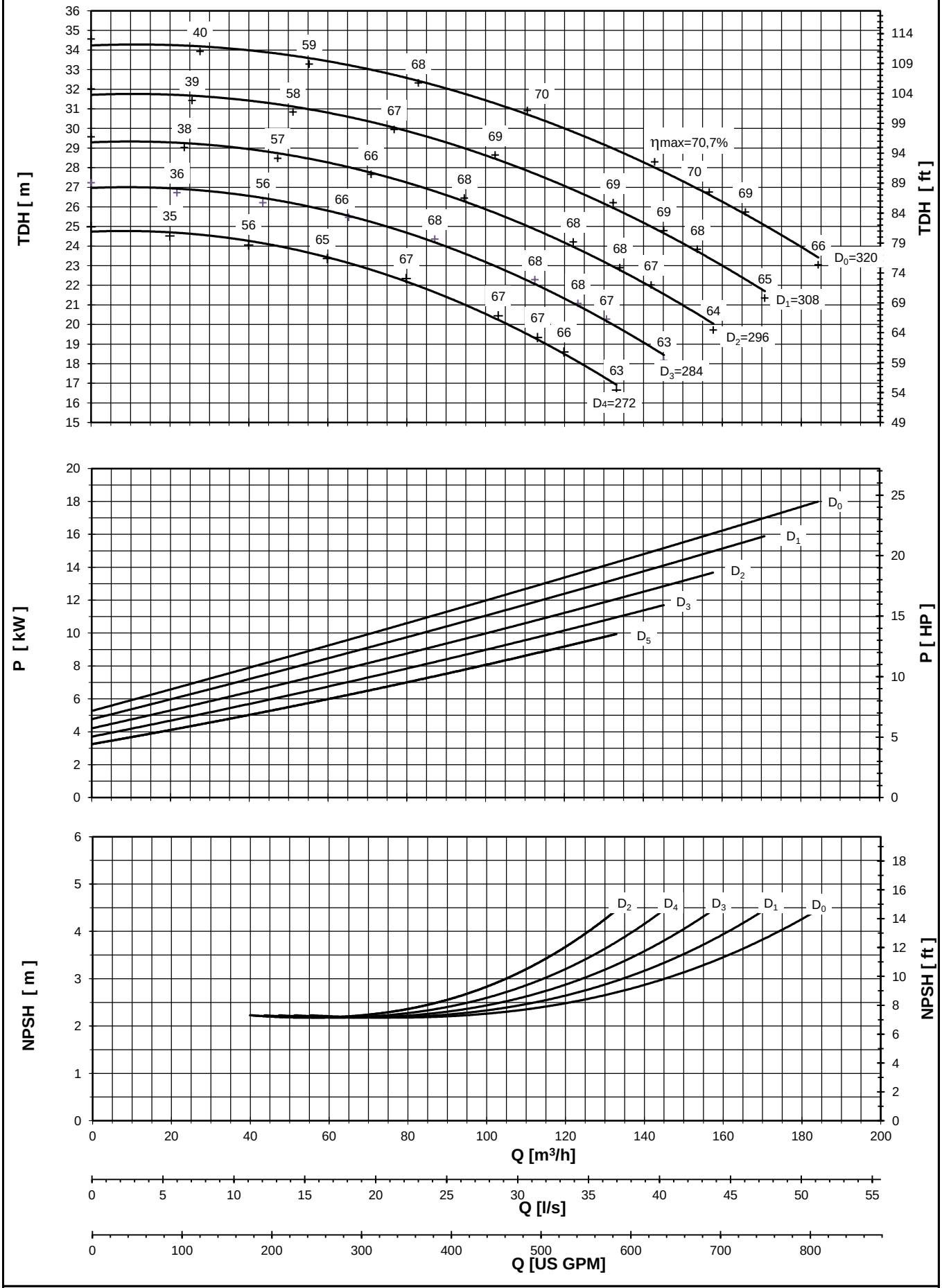
Performance curves are valid for clean cold water-kinematic viscosity 1 [mm^2/s], density 1000 [kg/m^3]. Methods and tolerances of presented performance curves are in accordance with ISO 9906 - Annex A

MZT PUMPI	PUMP PERFORMANCE CURVES No. 4HD.0268.04.R01	PUMP TYPE D 20-15-28 1450 [rpm]



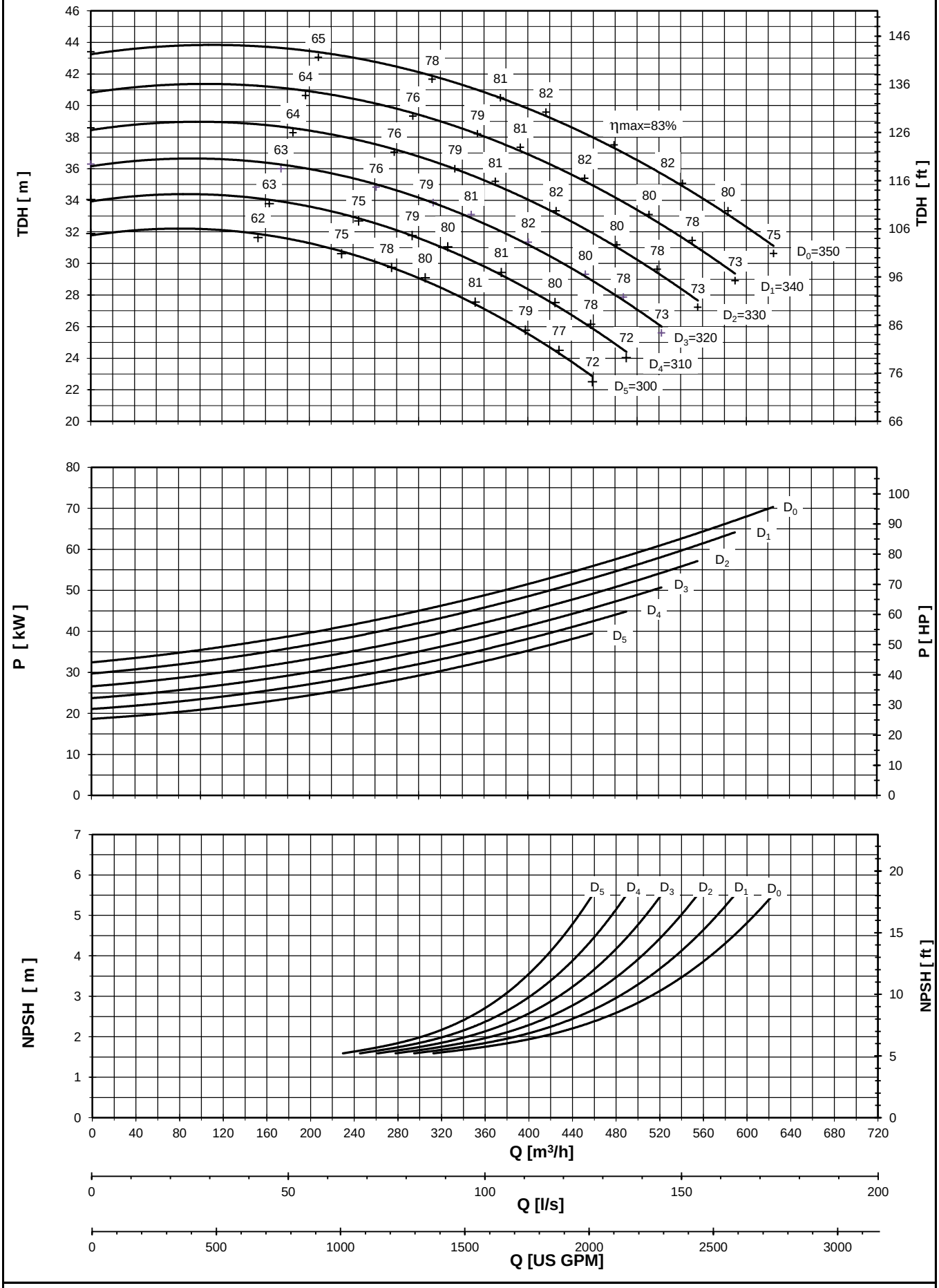
Performance curves are valid for clean cold water-kinematic viscosity 1 [mm^2/s], density 1000 [kg/m^3]. Methods and tolerances of presented performance curves are in accordance with ISO 9906 - Annex A

MZT PUMPI	PUMP PERFORMANCE CURVES No. 4HD.0258.04.R01	PUMP TYPE D 20-15-32 1450 [rpm]



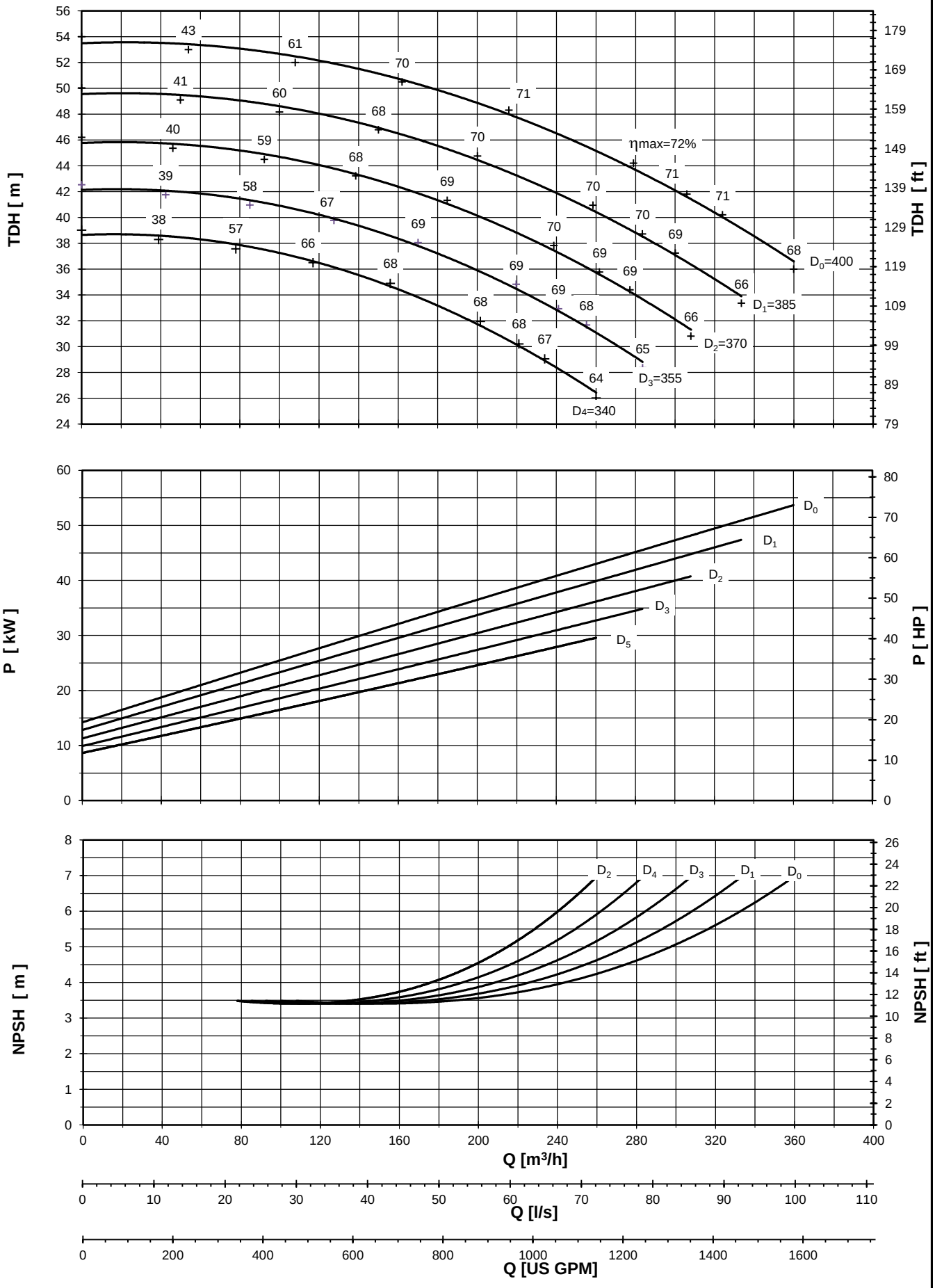
Performance curves are valid for clean cold water-kinematic viscosity 1 [mm^2/s], density 1000 [kg/m^3]. Methods and tolerances of presented performance curves are in accordance with ISO 9906 - Annex A

MZT PUMPI	PUMP PERFORMANCE CURVES No. 4HD.0244.04.R01	PUMP TYPE D 25-20-35 1450 [rpm]



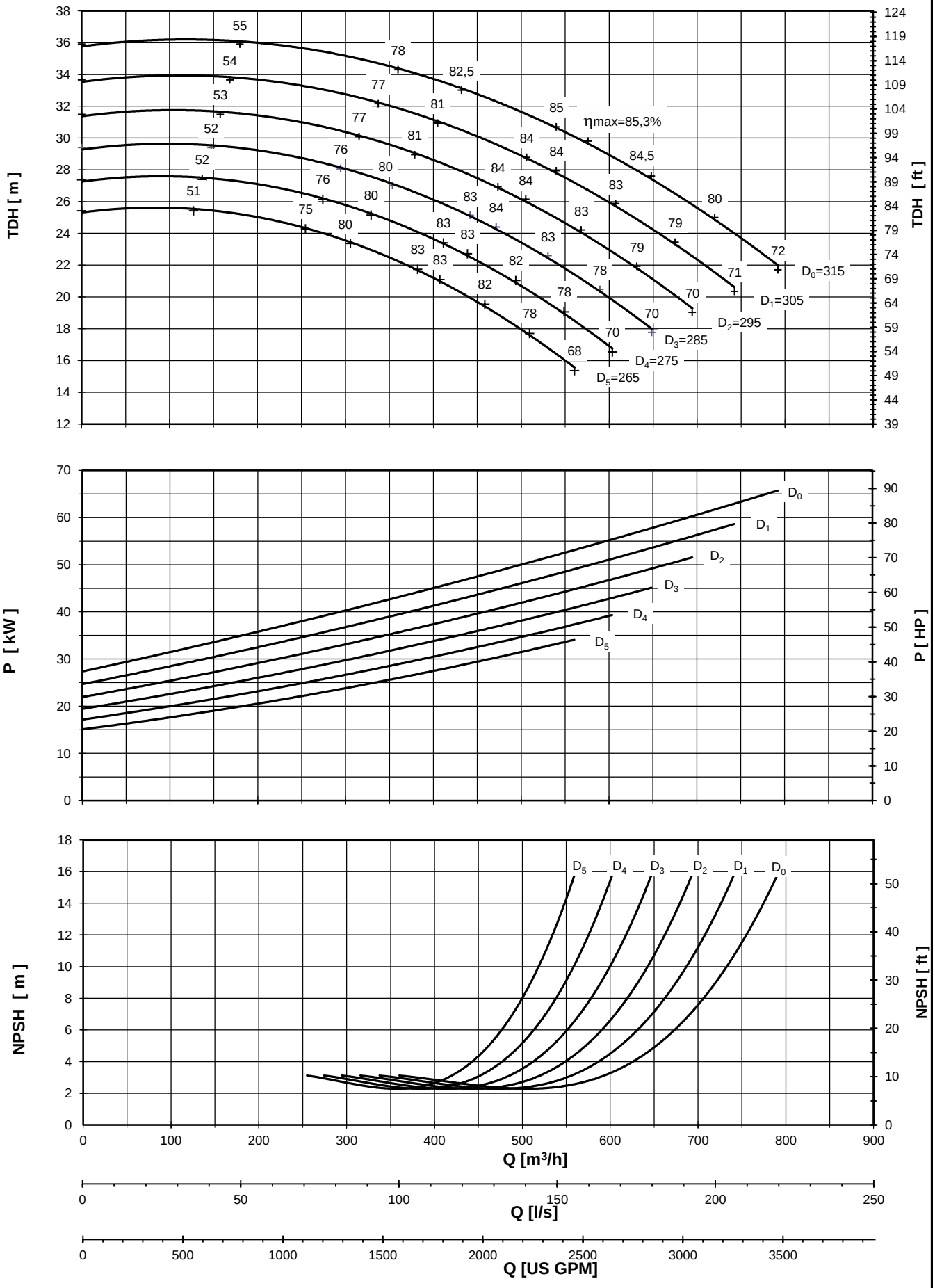
Performance curves are valid for clean cold water-kinematic viscosity 1 [mm^2/s], density 1000 [kg/m^3]. Methods and tolerances of presented performance curves are in accordance with ISO 9906 - Annex A

MZT PUMPI	PUMP PERFORMANCE CURVES No. 4HD.0259.04.R01	PUMP TYPE D 25-20-40 1450 [rpm]



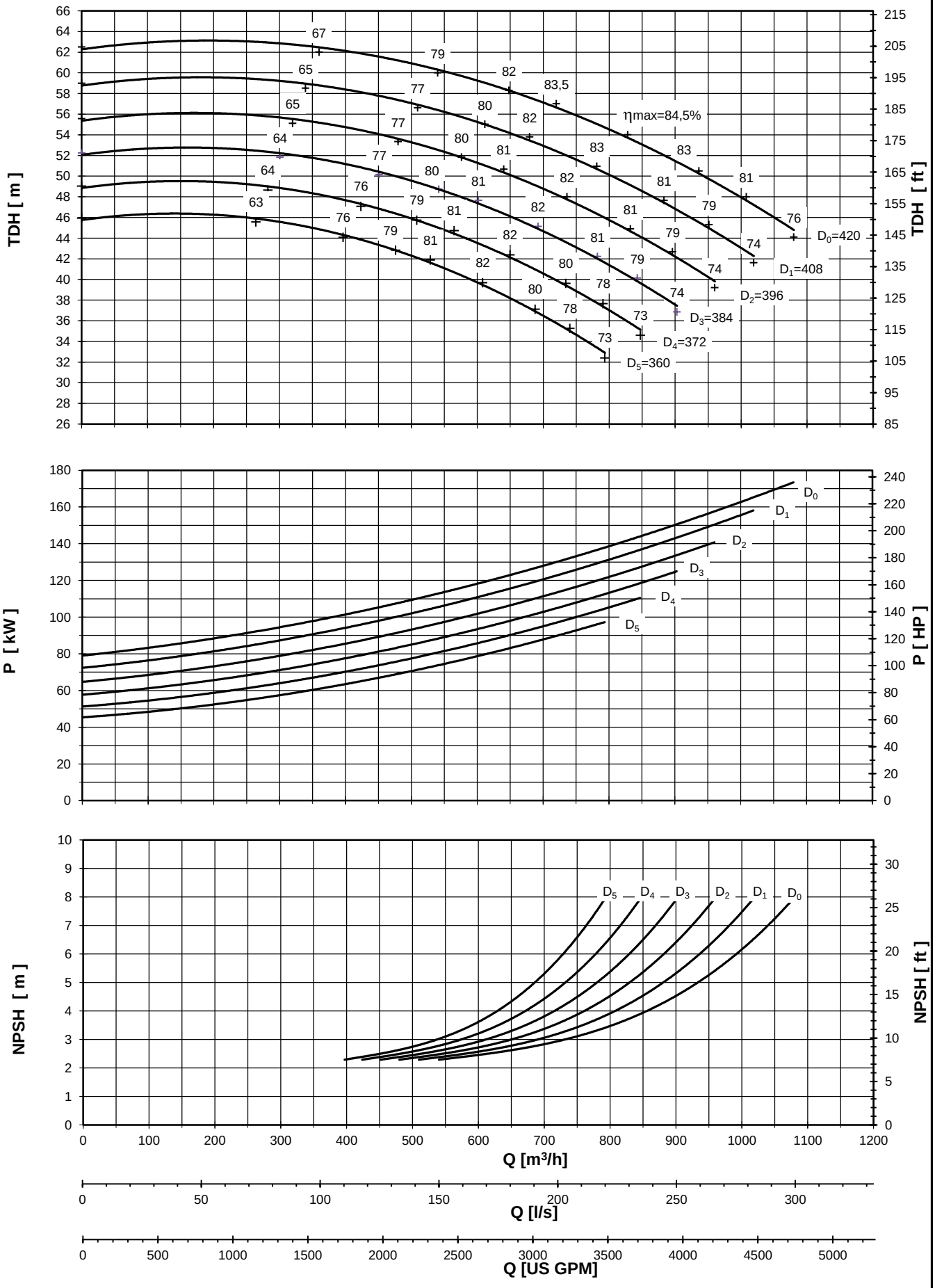
Performance curves are valid for clean cold water-kinematic viscosity 1 [mm^2/s], density 1000 [kg/m^3]. Methods and tolerances of presented performance curves are in accordance with ISO 9906 - Annex A

MZT PUMPI	PUMP PERFORMANCE CURVES No. 4HD.0219.04.R01	PUMP TYPE D 30-20-31 1450 [rpm]



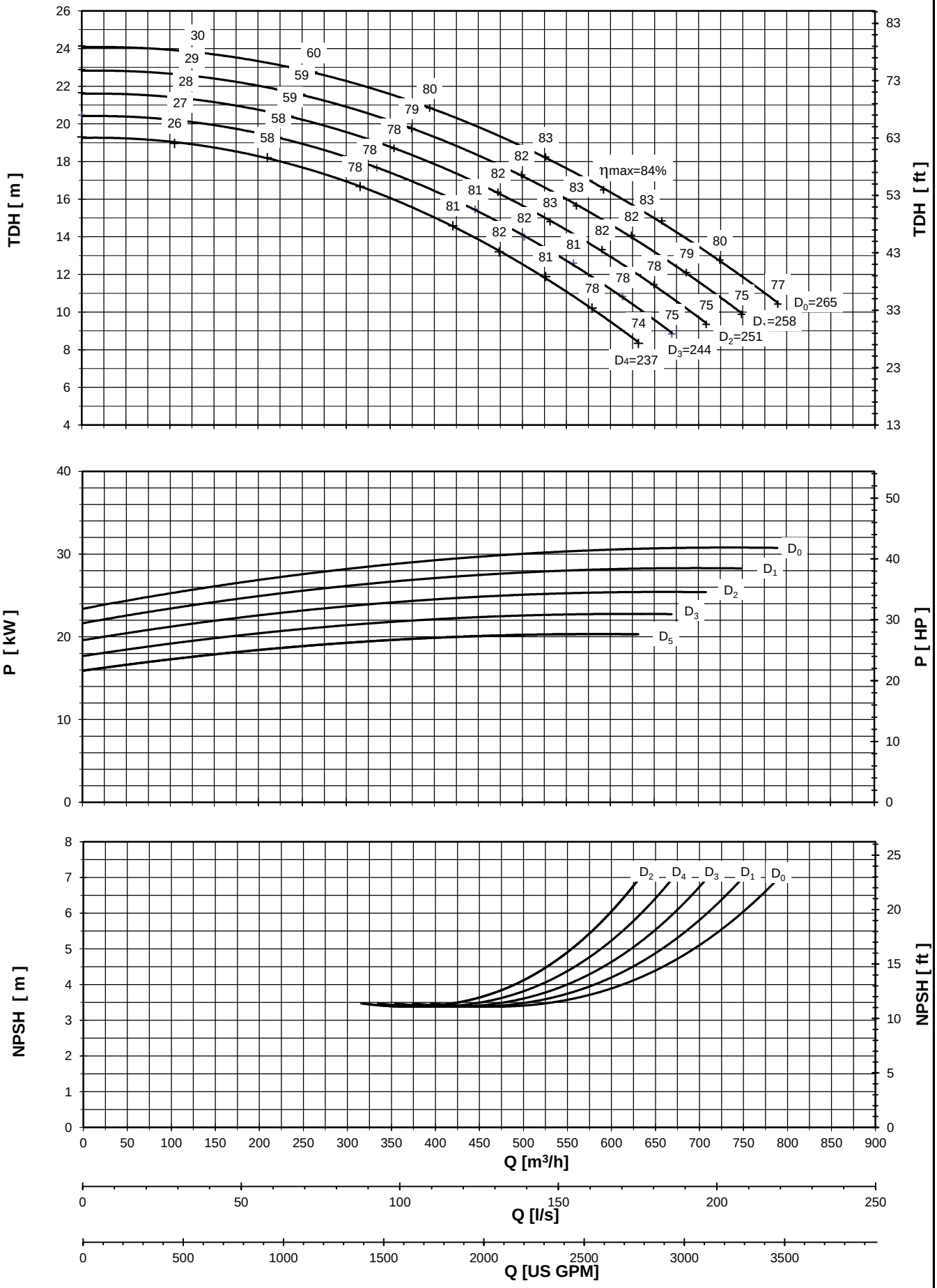
Performance curves are valid for clean cold water-kinematic viscosity 1 [mm^2/s], density 1000 [kg/m^3]. Methods and tolerances of presented performance curves are in accordance with ISO 9906 - Annex A

MZT PUMPI	PUMP PERFORMANCE CURVES No. 4HD.0232.04.R01	PUMP TYPE D 30-20-42 1450 [rpm]



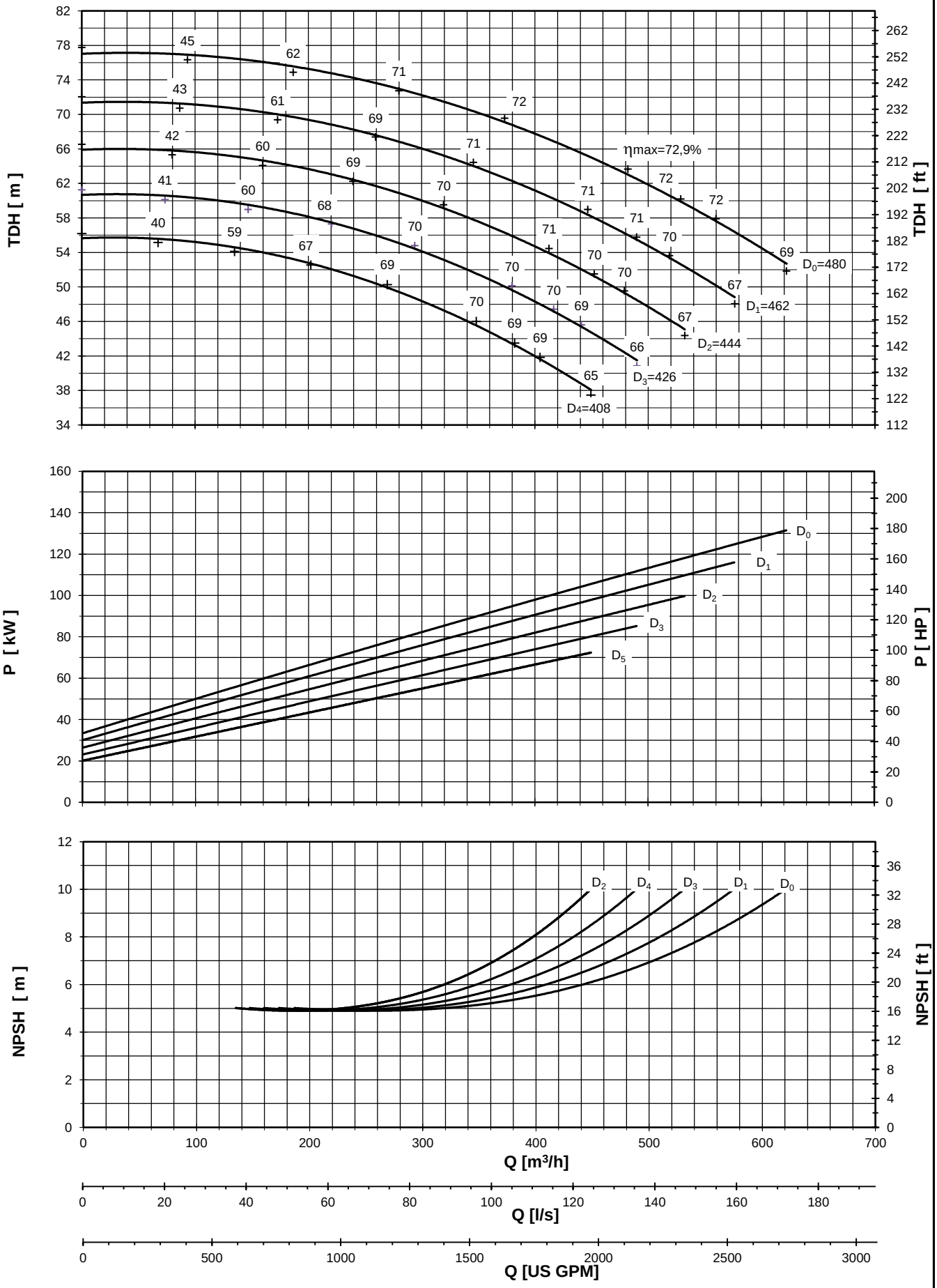
Performance curves are valid for clean cold water-kinematic viscosity 1 [mm^2/s], density 1000 [kg/m^3]. Methods and tolerances of presented performance curves are in accordance with ISO 9906 - Annex A

MZT PUMPI	PUMP PERFORMANCE CURVES No. 4HD.0252.04.R01	PUMP TYPE D 30-25-27 1450 [rpm]



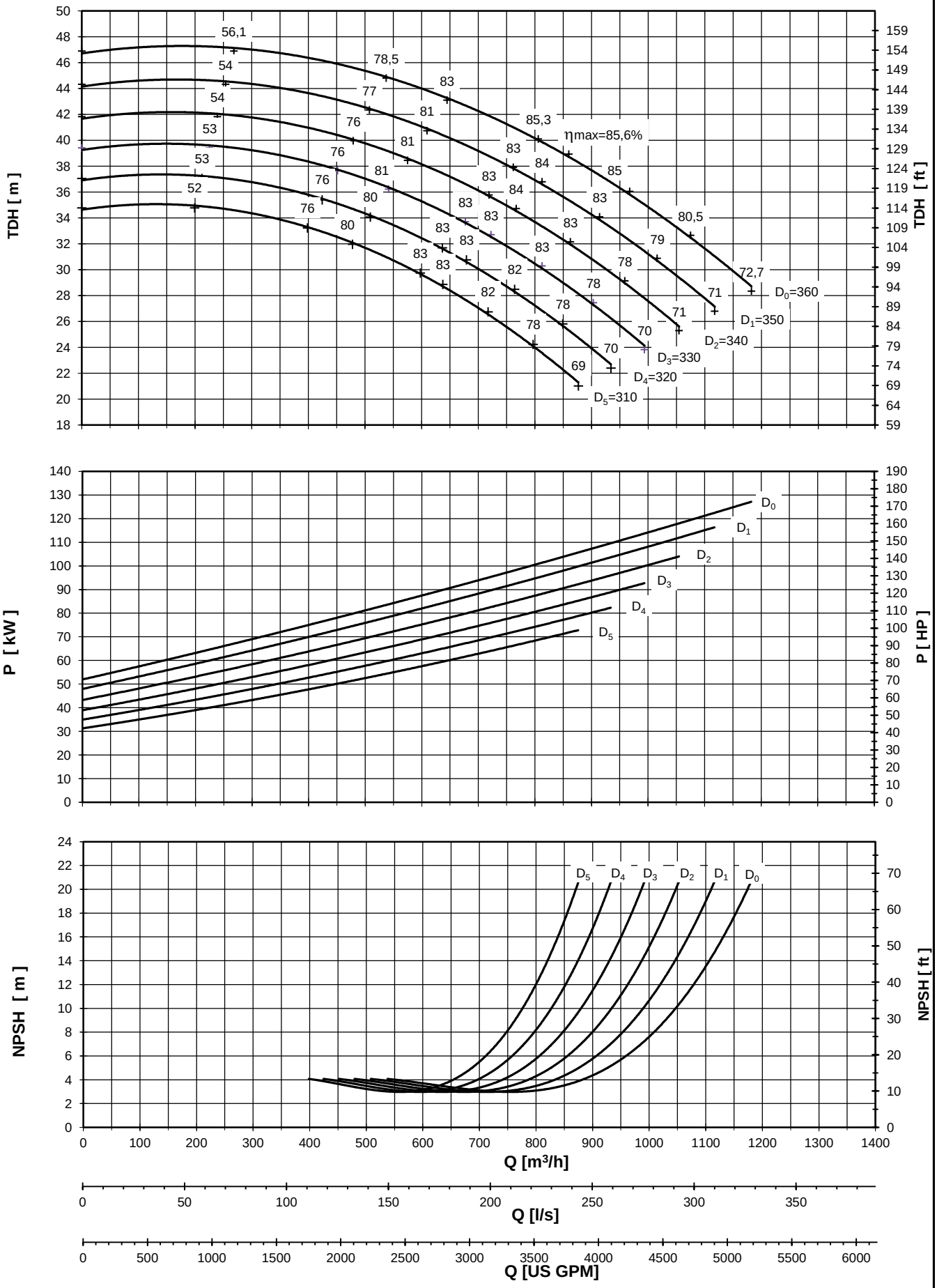
Performance curves are valid for clean cold water-kinematic viscosity 1 [mm^2/s], density 1000 [kg/m^3]. Methods and tolerances of presented performance curves are in accordance with ISO 9906 - Annex A

MZT PUMPI	PUMP PERFORMANCE CURVES No. 4HD.0260.04.R01	PUMP TYPE D 30-25-48 1450 [rpm]



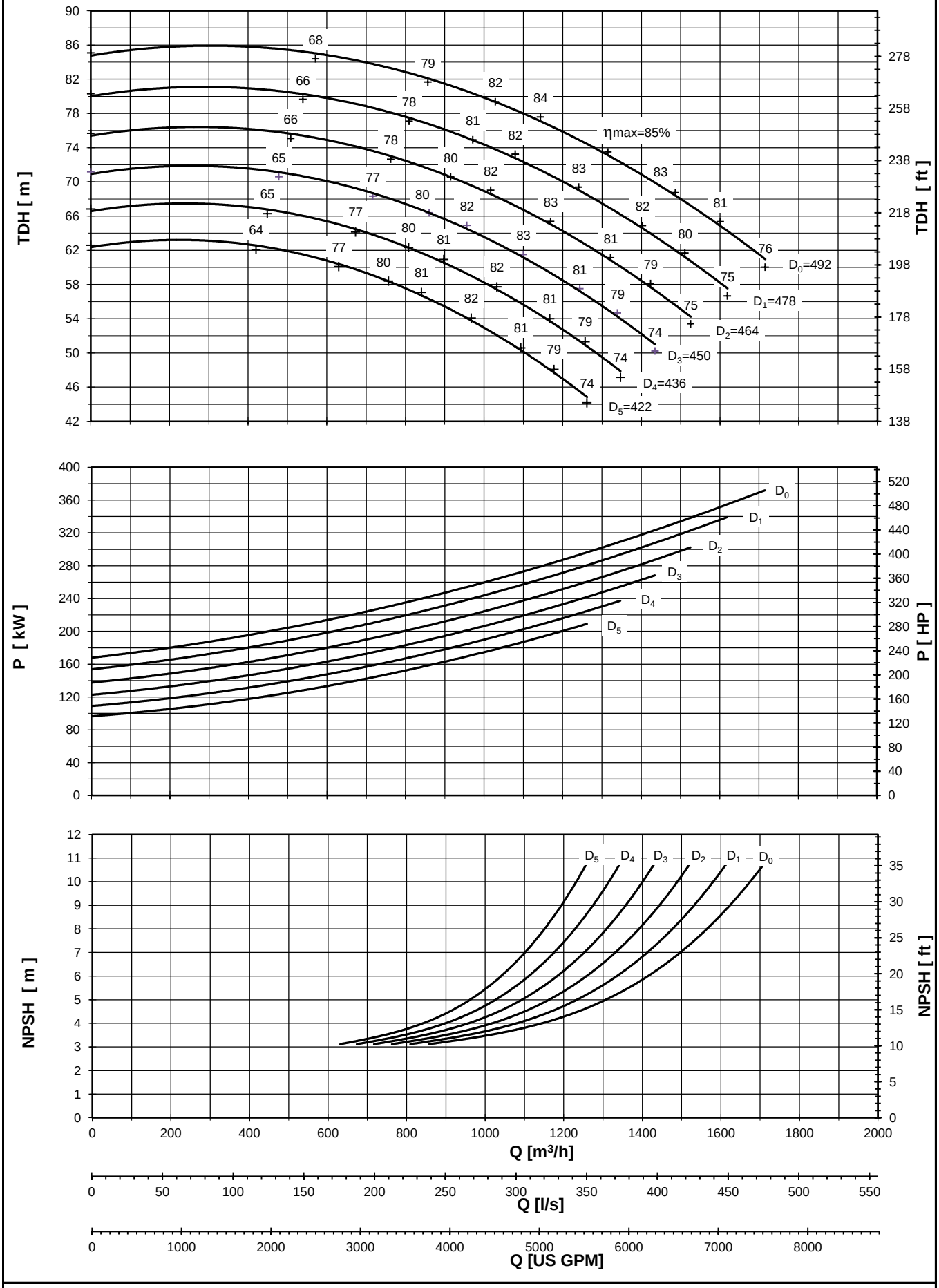
Performance curves are valid for clean cold water-kinematic viscosity 1 [mm^2/s], density 1000 [kg/m^3]. Methods and tolerances of presented performance curves are in accordance with ISO 9906 - Annex A

MZT PUMPI	PUMP PERFORMANCE CURVES No. 4HD.0220.04.R01	PUMP TYPE D 35-25-36 1450 [rpm]



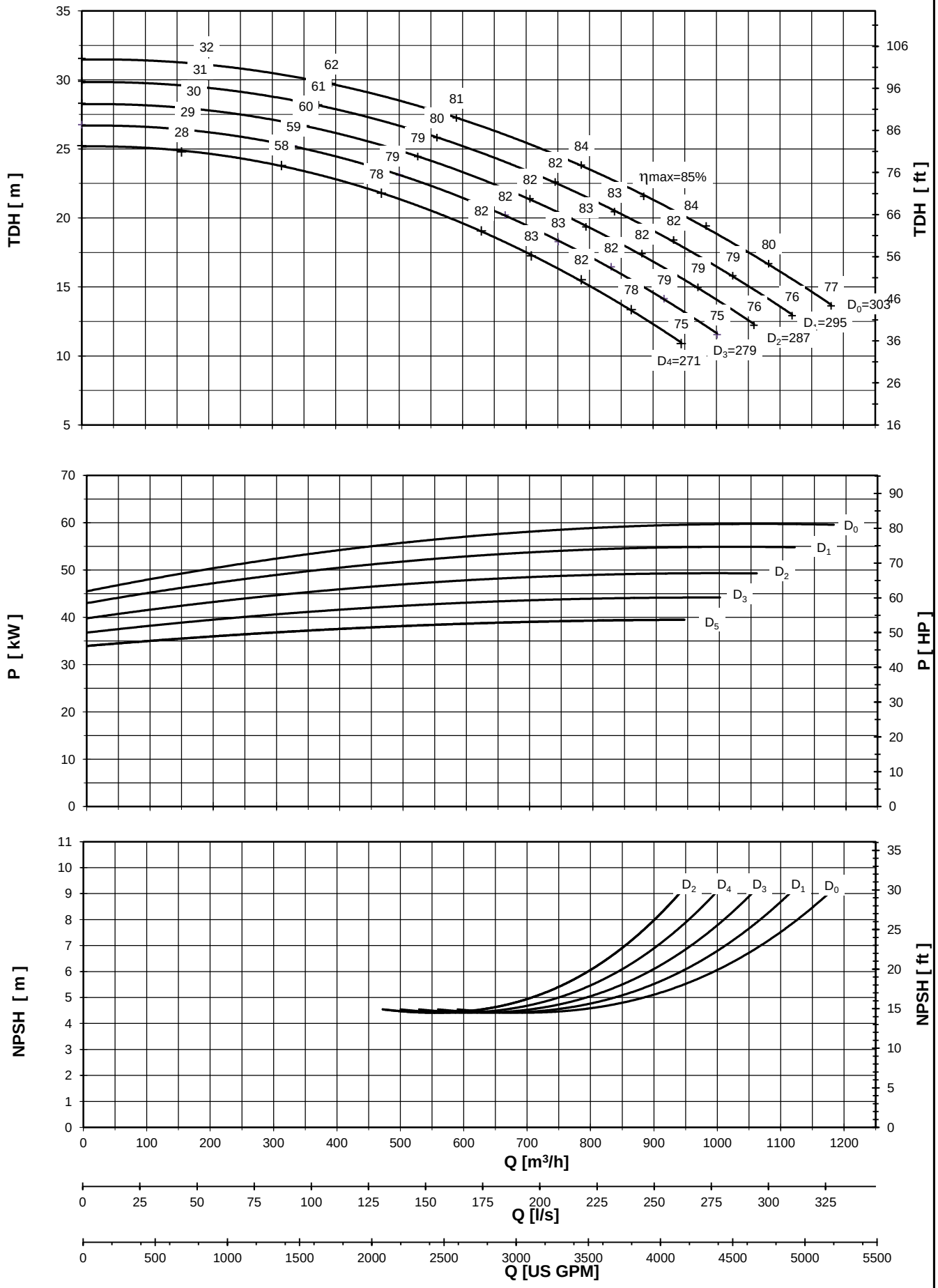
Performance curves are valid for clean cold water-kinematic viscosity 1 [mm^2/s], density 1000 [kg/m^3]. Methods and tolerances of presented performance curves are in accordance with ISO 9906 - Annex A

MZT PUMPI	PUMP PERFORMANCE CURVES No. 4HD.0246.04.R01	PUMP TYPE D 35-25-49 1450 [rpm]



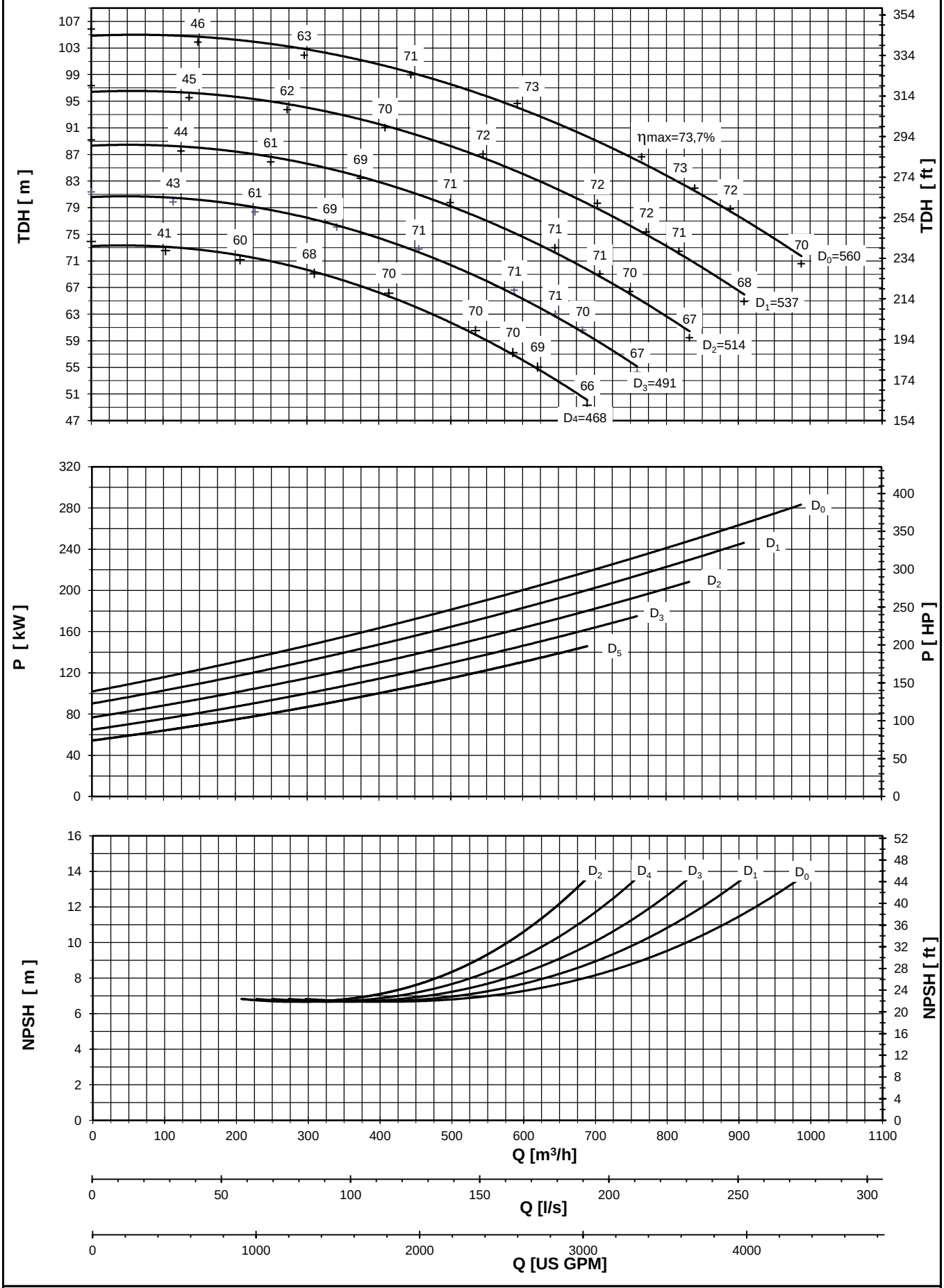
Performance curves are valid for clean cold water-kinematic viscosity 1 [mm^2/s], density 1000 [kg/m^3]. Methods and tolerances of presented performance curves are in accordance with ISO 9906 - Annex A

MZT PUMPI	PUMP PERFORMANCE CURVES No. 4HD.0266.04.R01	PUMP TYPE D 35-30-30 1450 [rpm]



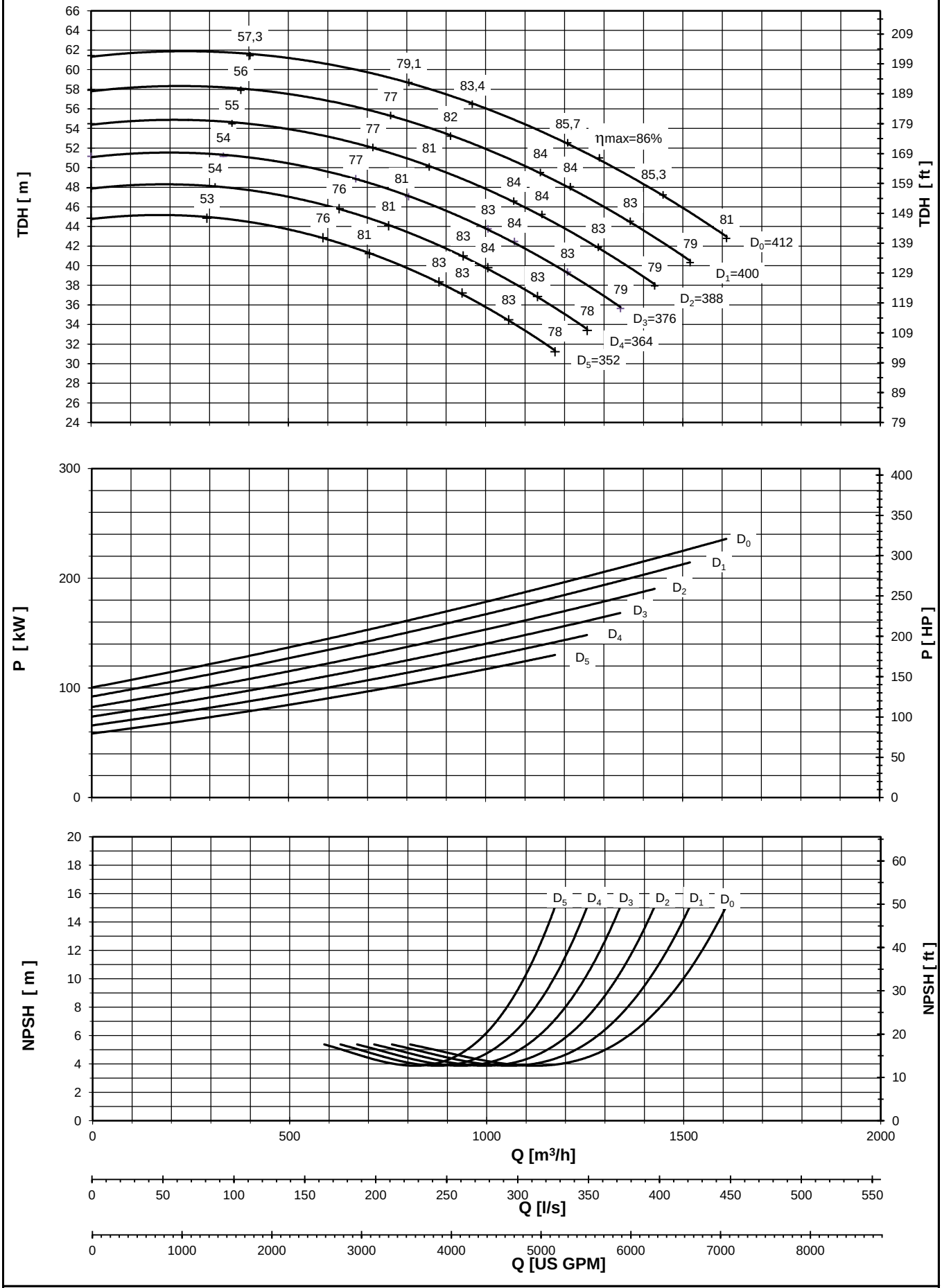
Performance curves are valid for clean cold water-kinematic viscosity 1 [mm^2/s], density 1000 [kg/m^3]. Methods and tolerances of presented performance curves are in accordance with ISO 9906 - Annex A

MZT PUMPI	PUMP PERFORMANCE CURVES No. 4HD.0261.04.R01	PUMP TYPE D 35-30-56 1450 [rpm]



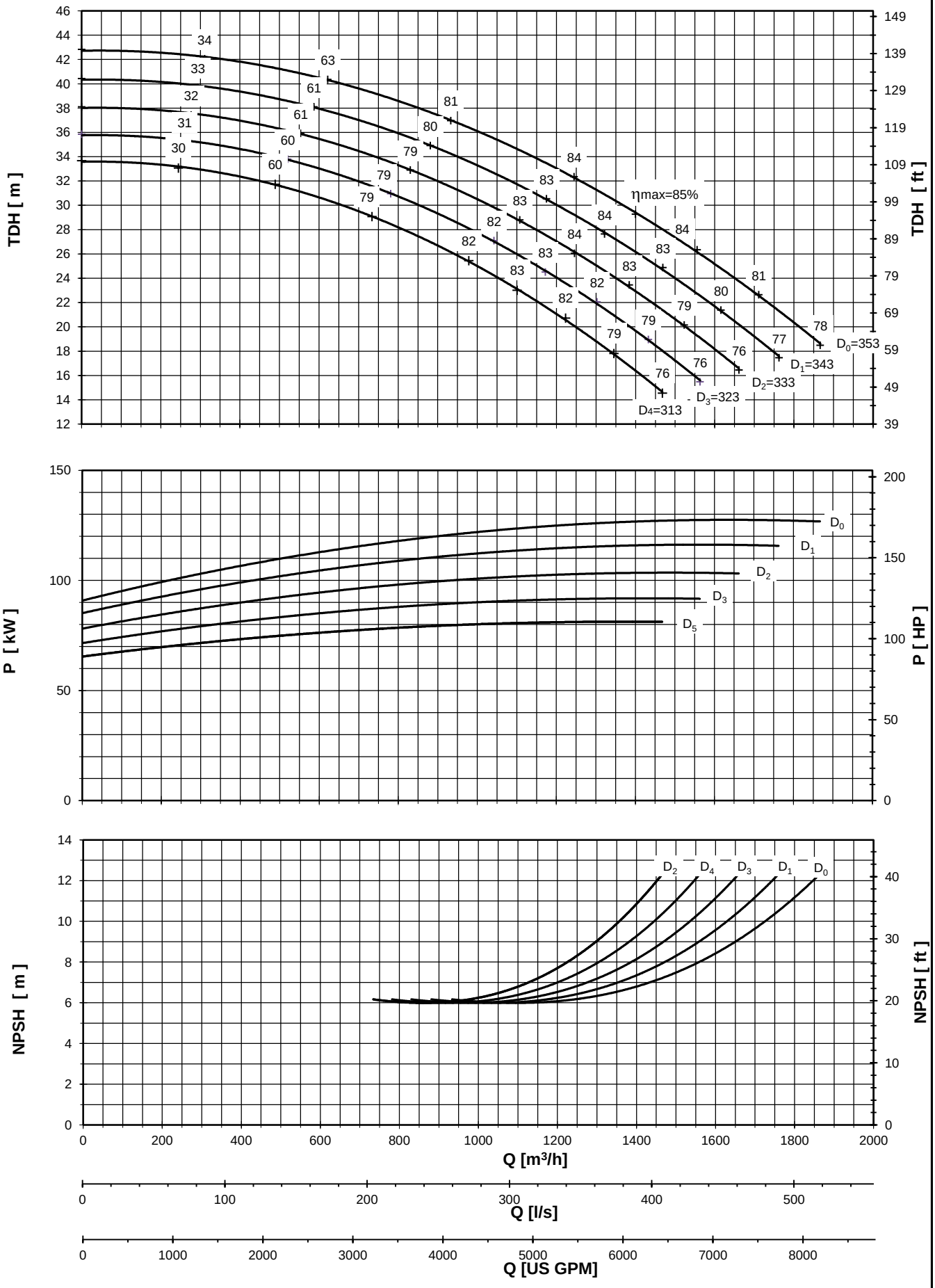
Performance curves are valid for clean cold water-kinematic viscosity 1 [mm^2/s], density 1000 [kg/m^3]. Methods and tolerances of presented performance curves are in accordance with ISO 9906 - Annex A

MZT PUMPI	PUMP PERFORMANCE CURVES No. 4HD.0221.04.R01	PUMP TYPE D 40-25-41 1450 [rpm]



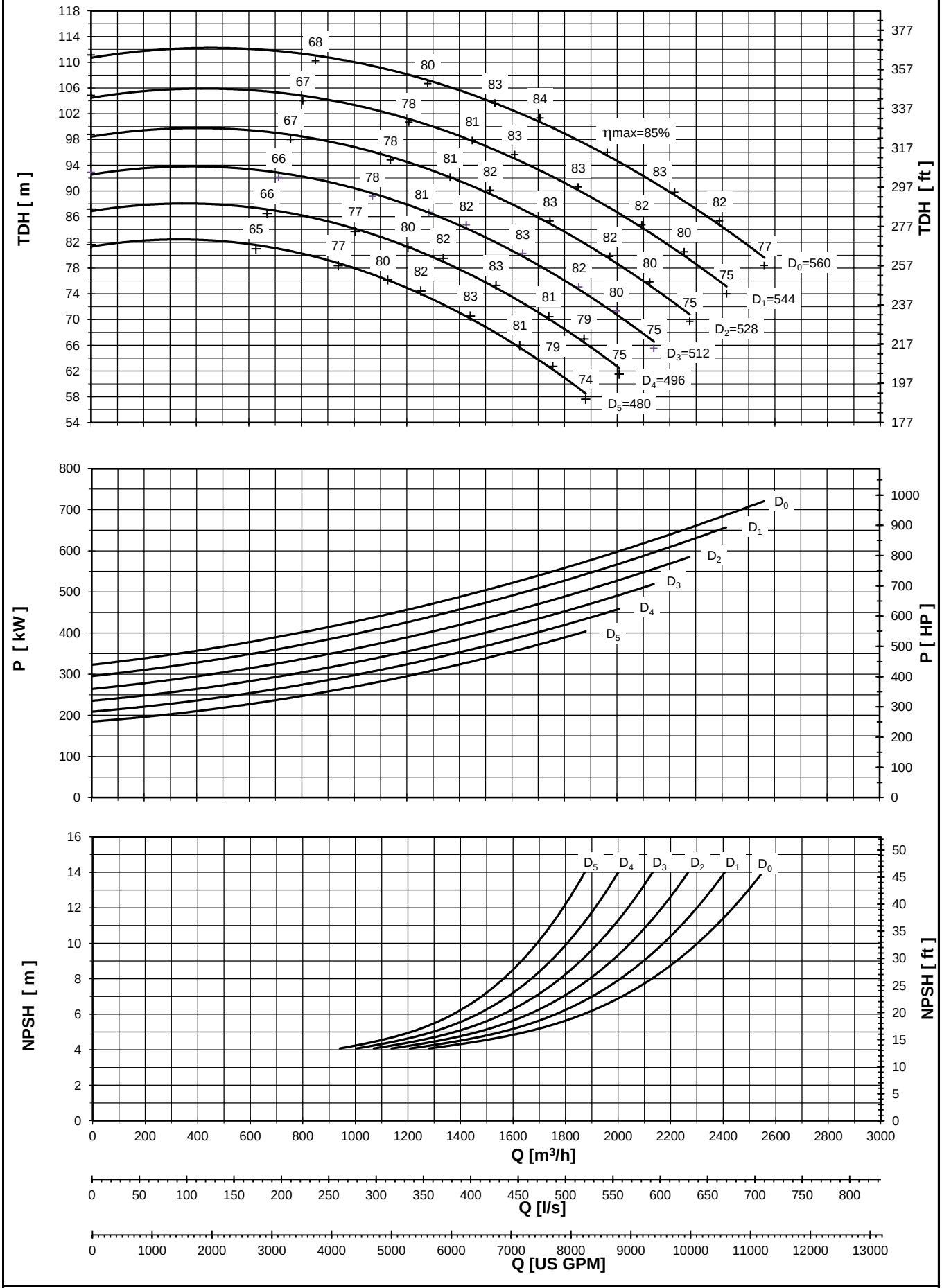
Performance curves are valid for clean cold water-kinematic viscosity 1 [mm^2/s], density 1000 [kg/m^3]. Methods and tolerances of presented performance curves are in accordance with ISO 9906 - Annex A

MZT PUMPI	PUMP PERFORMANCE CURVES No. 4HD.0253.04.R01	PUMP TYPE D 40-30-35 1450 [rpm]



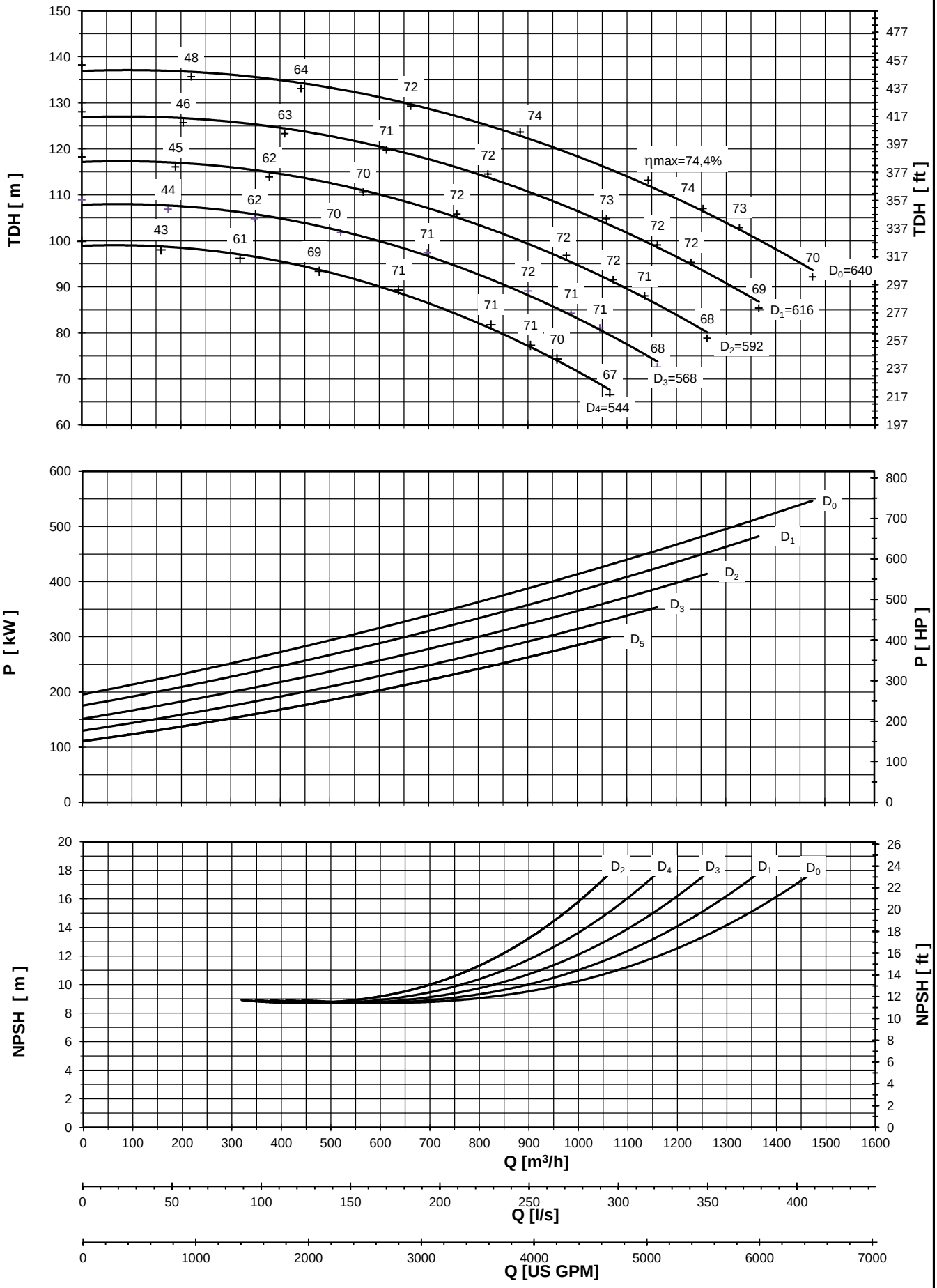
Performance curves are valid for clean cold water-kinematic viscosity 1 [mm^2/s], density 1000 [kg/m^3]. Methods and tolerances of presented performance curves are in accordance with ISO 9906 - Annex A

MZT PUMPI	PUMP PERFORMANCE CURVES No. 4HD.0247.04.R01	PUMP TYPE D 40-30-56 1450 [rpm]



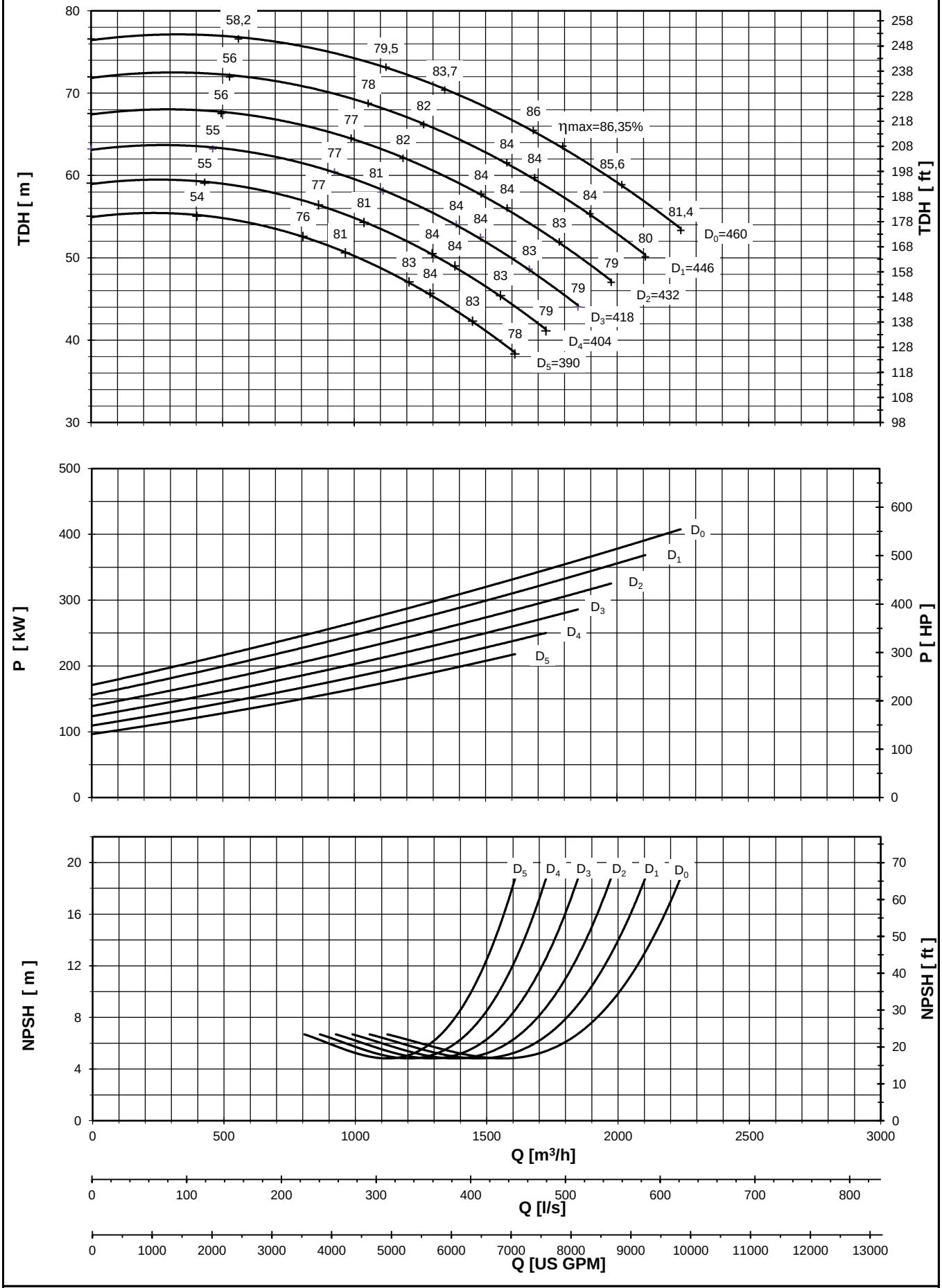
Performance curves are valid for clean cold water-kinematic viscosity 1 [mm^2/s], density 1000 [kg/m^3]. Methods and tolerances of presented performance curves are in accordance with ISO 9906 - Annex A

MZT PUMPI	PUMP PERFORMANCE CURVES No. 4HD.0262.04.R01	PUMP TYPE D 40-35-64 1450 [rpm]



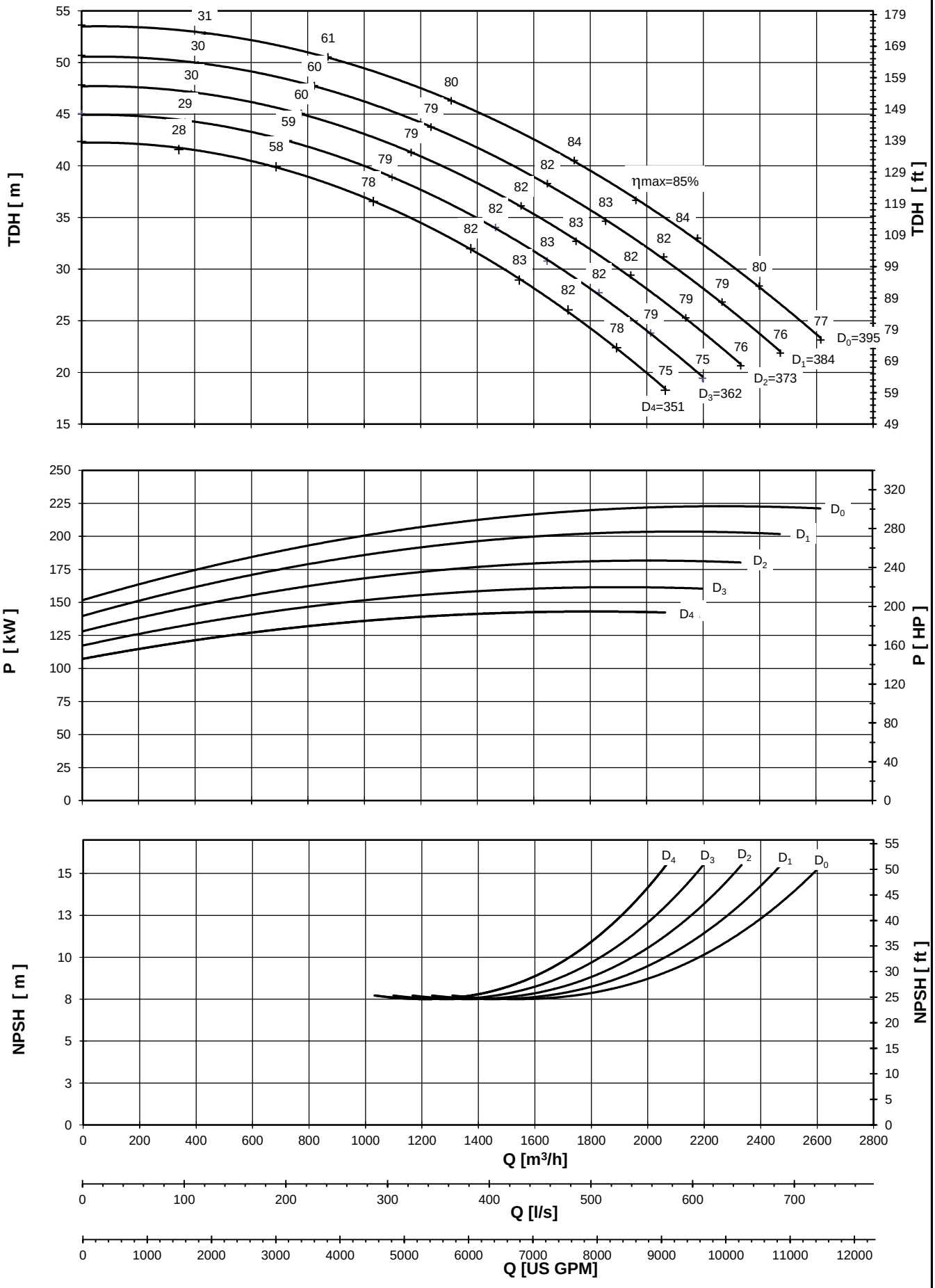
Performance curves are valid for clean cold water-kinematic viscosity 1 [mm^2/s], density 1000 [kg/m^3]. Methods and tolerances of presented performance curves are in accordance with ISO 9906 - Annex A

MZT PUMPI	PUMP PERFORMANCE CURVES No. 4HD.0222.04.R01	PUMP TYPE D 45-30-46 1450 [rpm]



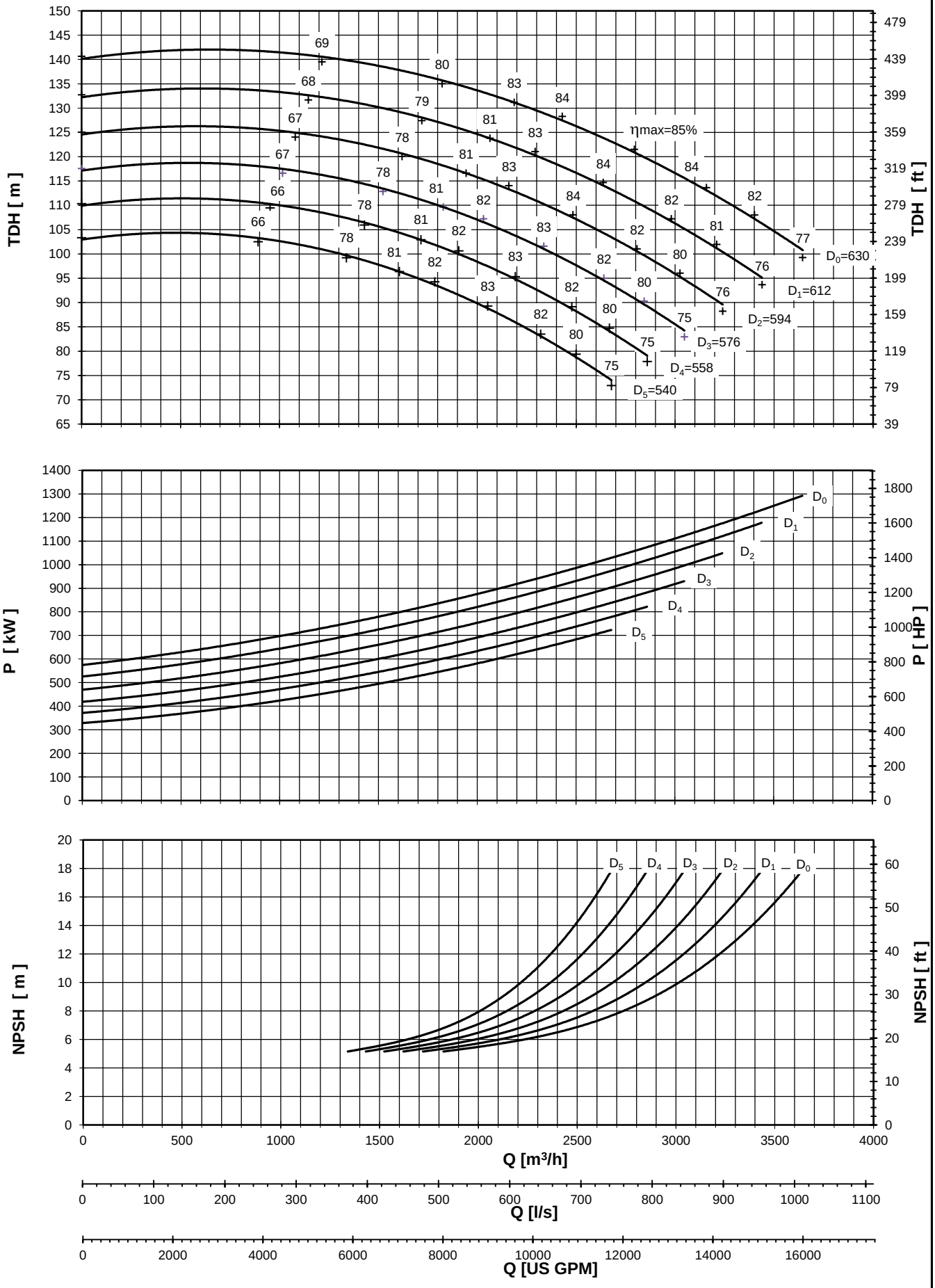
Performance curves are valid for clean cold water-kinematic viscosity 1 [mm^2/s], density 1000 [kg/m^3]. Methods and tolerances of presented performance curves are in accordance with ISO 9906 - Annex A

MZT PUMPI	PUMP PERFORMANCE CURVES No. 4HD.0265.04.R01	PUMP TYPE D 45-35-39 1450 [rpm]



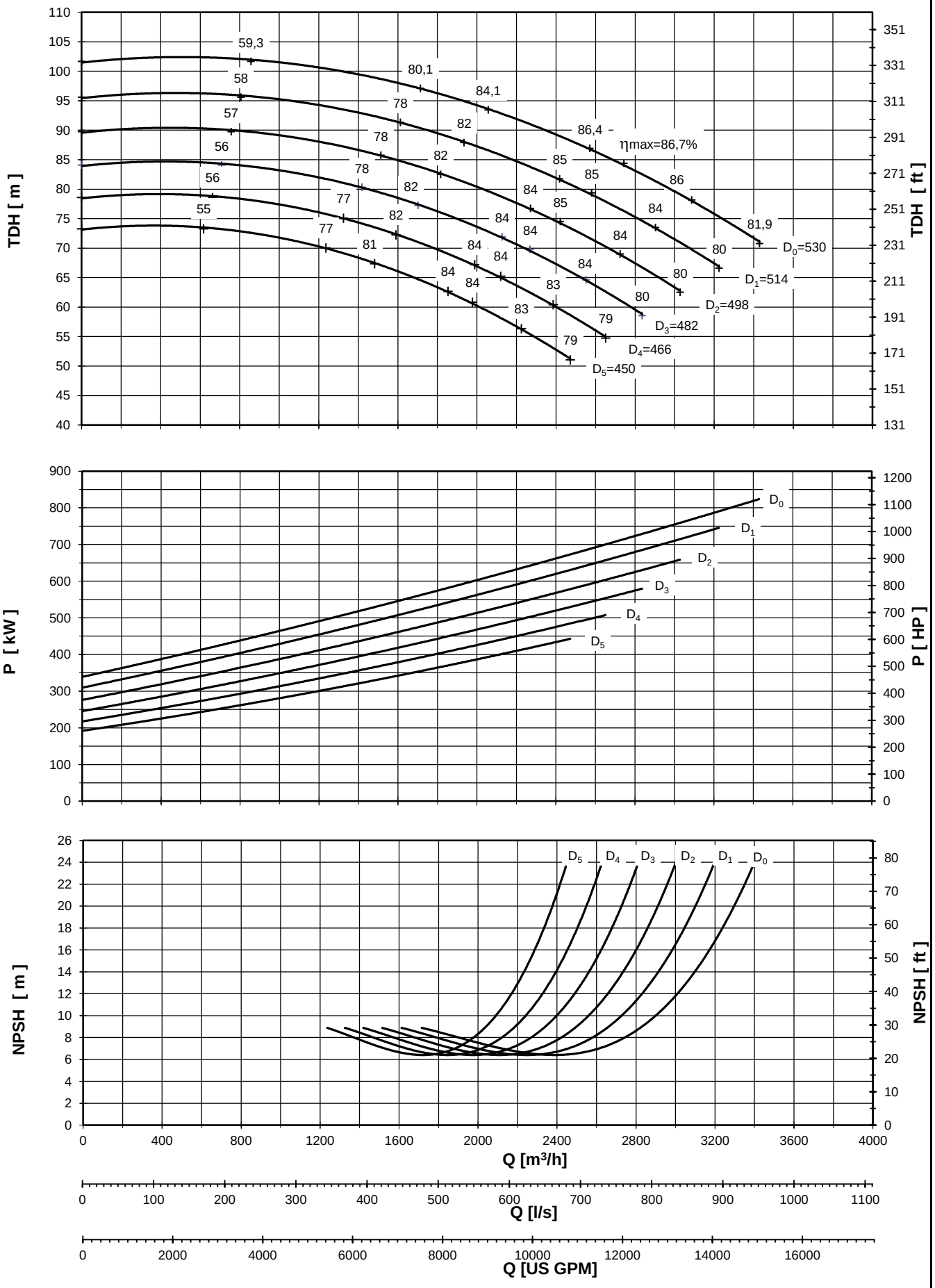
Performance curves are valid for clean cold water-kinematic viscosity 1 [mm^2/s], density 1000 [kg/m^3]. Methods and tolerances of presented performance curves are in accordance with ISO 9906 - Annex A

MZT PUMPI	PUMP PERFORMANCE CURVES No. 4HD.0249.04.R01	PUMP TYPE D 45-35-63 1450 [rpm]



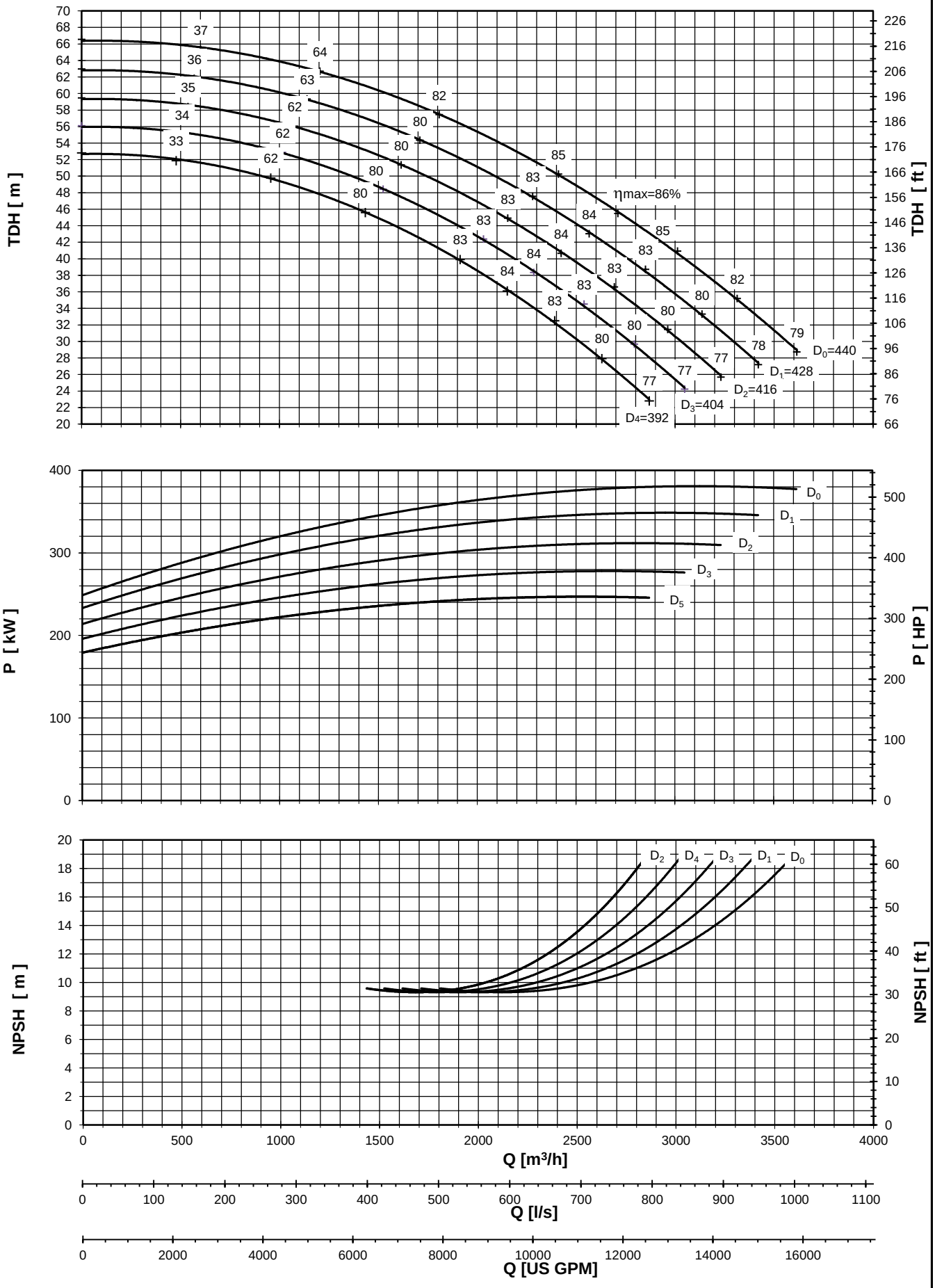
Performance curves are valid for clean cold water-kinematic viscosity 1 [mm^2/s], density 1000 [kg/m^3]. Methods and tolerances of presented performance curves are in accordance with ISO 9906 - Annex A

MZT PUMPI	PUMP PERFORMANCE CURVES No. 4HD.0223.04.R01	PUMP TYPE D 50-35-53 1450 [rpm]



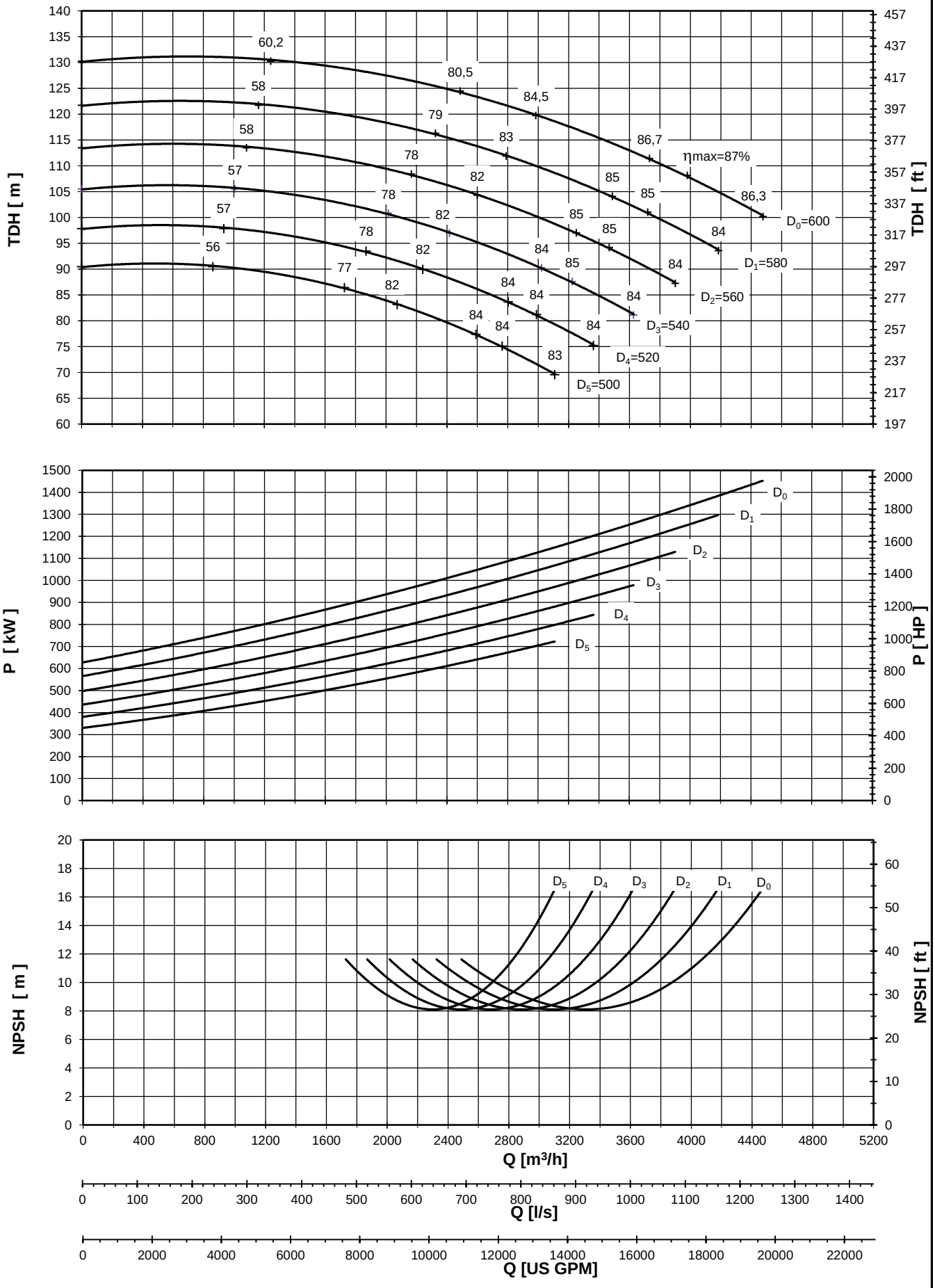
Performance curves are valid for clean cold water-kinematic viscosity 1 [mm^2/s], density 1000 [kg/m^3]. Methods and tolerances of presented performance curves are in accordance with ISO 9906 - Annex A

MZT PUMPI	PUMP PERFORMANCE CURVES No. 4HD.0254.04.R01	PUMP TYPE D 50-40-44 1450 [rpm]



Performance curves are valid for clean cold water-kinematic viscosity 1 [mm^2/s], density 1000 [kg/m^3]. Methods and tolerances of presented performance curves are in accordance with ISO 9906 - Annex A

MZT PUMPI	PUMP PERFORMANCE CURVES No. 4HD.0224.04.R01	PUMP TYPE D 60-40-60 1450 [rpm]



Performance curves are valid for clean cold water-kinematic viscosity 1 [mm^2/s], density 1000 [kg/m^3]. Methods and tolerances of presented performance curves are in accordance with ISO 9906 - Annex A

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