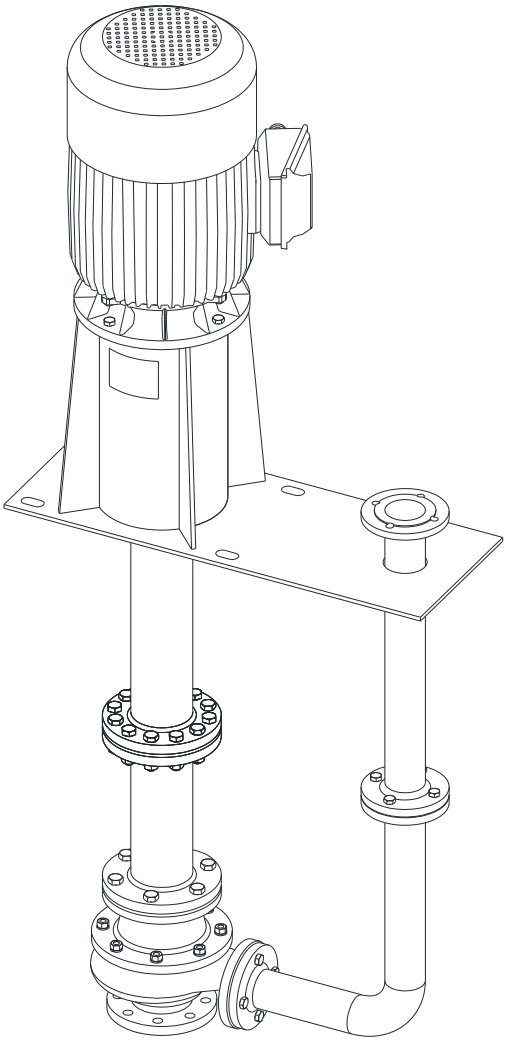
MZT PUMPI

Vertical line shaft, volute casing sump pumps series SCPV

Technical catalog



Document No. 4HK.SCPV.R001.EN

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1. GENERAL INFORMATION

1.1. Introduction

SCPV series pumps are vertical, single stage, end suction, radially split volute casing, line shaft pumps for transport of liquids from pits and tanks.

1.2. Application

SCPV series pumps can be applied for transport of water, chemical solutions, oil products and other liquids without abrasive solid particles. General application is in:

- water supplying
- energy sector
- chemical industry
- food industry
- iron and steel industry
- mining industry
- general service industry etc.

➢ Capacity:	up to 1000 [m^3/h]
➢ Differential head:	up to 130 [m]
➢ Design pressure	up to 16 [bar]
➢ Speed:	up to 3000 [rpm]
➢ Temperature range:	up to 120 [^oC]
➢ Ambient temperature:	up to 45 [^oC]

**Oversize pumps available on request*

1.3. Pump type design

SCPV type of pump is end suction centrifugal type of pump where following design solutions are applied:

- Vertical design
- Sump pumps
- Single volute pump casing
- Closed impeller
- Line shaft design
- Ratings and volute casing connections according ISO 2858 or EN733

1.4. Pump type key (Designation)

Example: **SCPV - 50 - 200 - 2000**

Type series

Discharge flange nominal diameter [mm]

Impeller nominal diameter

Pump length-from suction flange to base plate [mm]

2. TECHNICAL DETAILS

2.1. Materials

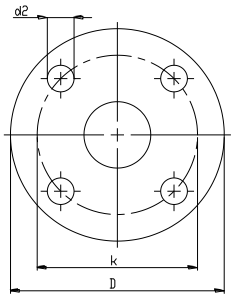
	Pump Part	Material
1	Volute casing	Gray cast iron / Nodular cast iron / Bronze / Steel / Stainless steel / Duplex
2	Impeller	Gray cast iron / Nodular cast iron / Bronze / Steel / Stainless steel / Duplex
3	Casing cover	Gray cast iron / Bronze / Steel / Stainless steel
4	Shaft	Stainless Steel
5	Intermediate bearing	NBR / Composite / Bronze / Graphite
6	Impeller nut	Steel / Stainless steel
7	Wearing rings	Gray cast iron / Nodular cast iron / Bronze / Steel / Stainless steel / Duplex
8	Base	Steel welded construction
9	Column pipes	Steel / Stainless steel / Duplex

**Other materials available on request*

2.2. Flange connections

Discharge (top) flanges are in accordance with EN 1092-1 PN16

Suction Flange Nominal Diameter DN	Outside Diameter D	Bolt circle K	Bolt Number n	Bolt Holes d_2
32	140	100	4	18
40	150	110	4	18
50	165	125	4	18
65	185	145	8	18
80	200	160	8	18
100	220	180	8	18
125	250	210	8	18
125	250	210	8	18
150	285	240	8	23
200	340	295	12	23
250	405	355	12	27
300	460	410	12	27



Note: Different flange connections than presented can be provided on request.

2.4. Bearings & Lubrication

Thrust bearings: ball type, angular contact pair, grease lubricated. Oil lubrication on request.
Guide bearing: sleeve type, working medium lubricated or forced lubricated.

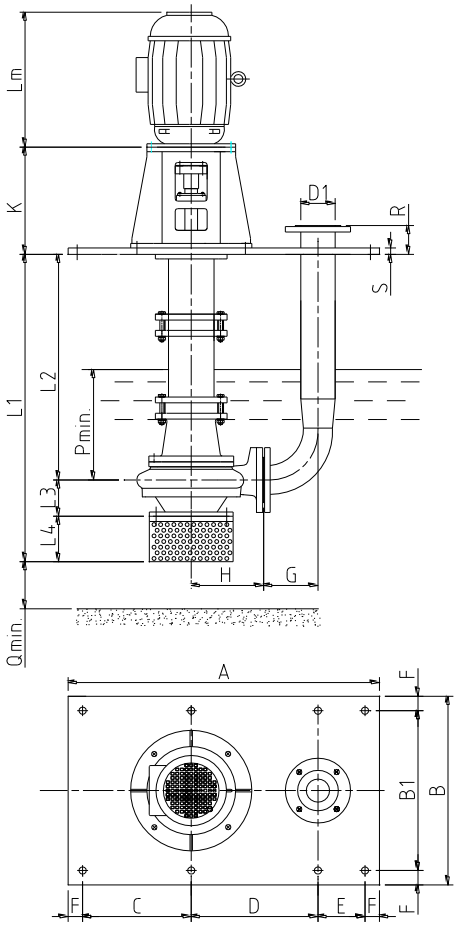
2.5. Shaft sealing

Shaft sealing for pumps series SCPV is performed with single mechanical seal, unbalanced type as a standard design. Lip seal, soft packing or double mechanical seal available depends of application.

2.6. Direction of rotation

Direction of rotation is clock vice viewed from the motor side.

2. DIMENSIONS - PUMP OUTLINE DRAWING

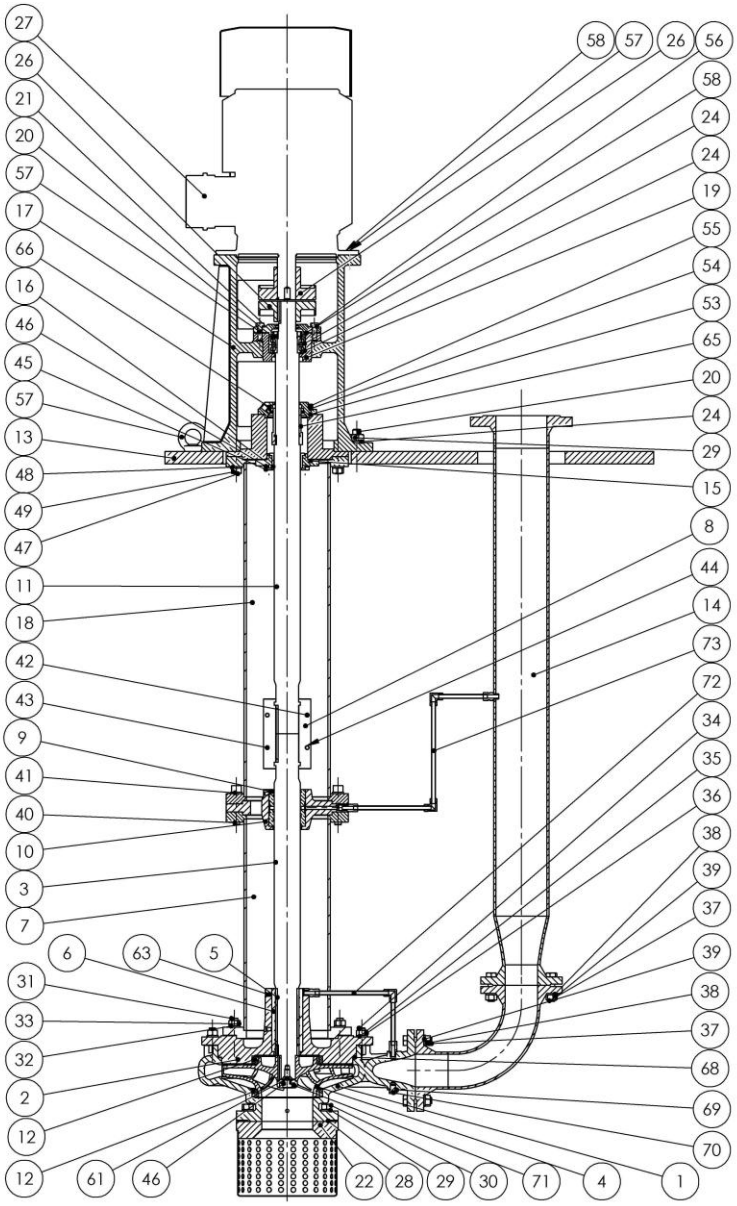


Outlet flanges according EN 1092-1 / PN16

Dimension L1 or L2 should be defined by customer

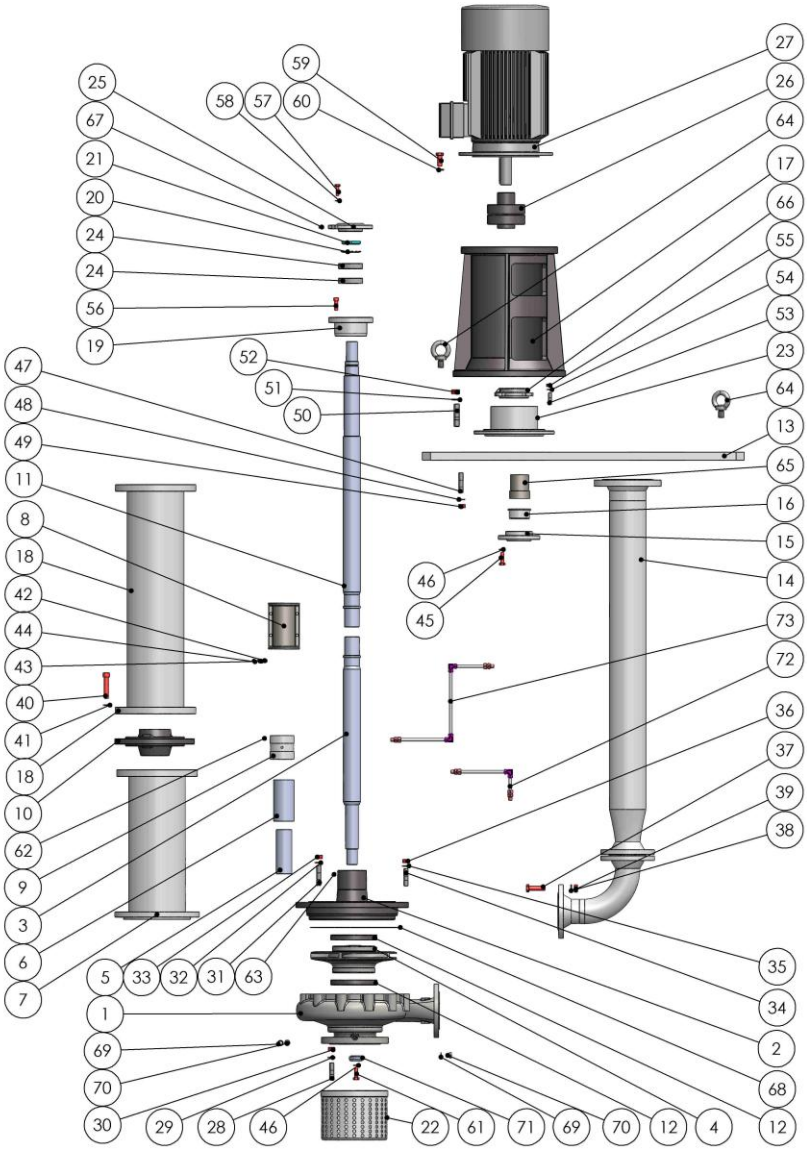
SIZE	Dimensions (mm)																
	D1	A	B	B1	C	D	E	F	G	H	K	L3	L4	P	Q	R	S
SCPV 32-160	40	700	500	440	220	250	170	30	90	160	500	80	100	150	100	50	20
SCPV 32-200	40	700	500	440	220	270	150	30	90	180	500	80	100	200	100	50	20
SCPV 32-250	40	800	500	440	220	315	205	30	90	225	500	100	100	200	100	50	20
SCPV 40-160	50	800	500	440	220	265	255	30	105	160	500	80	100	150	100	50	20
SCPV 40-200	50	700	500	440	220	285	135	30	105	180	500	100	100	200	100	50	20
SCPV 40-250	50	800	500	440	220	330	190	30	105	225	500	100	100	200	100	50	20
SCPV 40-315	50	900	600	540	270	355	215	30	105	250	600	125	100	220	100	50	20
SCPV 50-160	65	800	500	440	220	305	215	30	125	180	500	100	100	150	100	50	20
SCPV 50-200	65	800	500	440	220	325	195	30	125	200	500	100	100	150	100	50	20
SCPV 50-250	65	800	500	440	220	350	170	30	125	225	500	125	100	220	100	50	20
SCPV 50-315	65	900	600	540	270	405	165	30	125	280	600	125	100	220	125	50	20
SCPV 65-160	80	900	500	440	220	345	275	30	145	200	500	100	100	220	125	80	20
SCPV 65-200	80	900	600	540	270	370	200	30	145	225	500	100	100	220	125	80	20
SCPV 65-250	80	900	600	540	220	395	225	30	145	250	600	125	100	220	125	80	20
SCPV 65-315	80	1000	600	540	320	425	195	30	145	280	500	125	100	220	125	80	20
SCPV 80-160	100	900	500	440	220	395	225	30	170	225	500	125	100	220	125	80	25
SCPV 80-200	100	900	500	440	220	420	200	30	170	250	600	125	100	220	125	80	25
SCPV 80-250	100	1000	600	540	270	450	220	30	170	280	600	125	100	250	125	80	25
SCPV 80-315	100	1000	700	640	320	485	135	30	170	315	600	125	100	250	125	80	25
SCPV 80-400	100	1100	700	640	320	525	195	30	170	355	600	125	100	250	125	80	25
SCPV 100-200	125	1000	600	540	270	490	180	30	210	280	600	125	150	250	125	100	25
SCPV 100-250	125	1000	600	540	270	490	180	30	210	280	600	140	15	250	125	100	25
SCPV 100-315	125	1100	700	640	320	525	195	30	210	315	600	140	150	250	125	100	25
SCPV 100-400	125	1200	800	740	370	565	205	30	210	355	600	140	150	250	125	100	25
SCPV 125-250	150	1100	700	640	270	605	165	30	250	355	600	140	150	250	150	100	30
SCPV 125-315	150	1200	700	640	370	605	165	30	250	355	600	140	150	250	150	100	30
SCPV 125-400	150	1300	700	640	370	650	220	30	250	400	600	140	150	250	150	100	30
SCPV 150-250	200	1300	700	640	320	665	255	30	290	375	600	160	200	250	150	125	30
SCPV 150-315	200	1300	700	640	320	690	230	30	290	400	600	160	200	250	150	125	30
SCPV 150-400	200	1400	800	740	370	740	230	30	290	450	600	160	200	250	150	125	30
SCPV 200-250	250	1500	800	740	420	795	225	30	370	425	600	180	250	270	150	125	30
SCPV 200-315	250	1500	900	840	420	820	200	30	370	450	600	200	250	300	150	125	30
SCPV 200-400	250	1600	900	840	420	870	250	30	370	500	650	180	250	300	150	125	30
SCPV 250-400	300	1900	1000	940	470	1060	310	30	460	600	650	200	300	400	300	150	30
SCPV 300-400	350	1900	1000	940	470	1030	340	30	530	500	650	300	350	500	350	150	30

4. ASSEMBLY DRAWING WITH PART LIST



1	Volute casing	19	Bearing support	37	Bolt	55	Nut
2	Pump cover	20	Bearing washer MB	38	Flat washer	56	Bolt
3	Pump shaft 1	21	Bearing nut KM	39	Nut	57	Bolt
4	Impeller	22	Suction strainer	40	Bolt	58	Flat washer
5	Shaft sleeve	23	Cover	41	Flat washer	59	Bolt
6	Friction bearing bush	24	Bearing	42	Bolt	60	Flat washer
7	Intermediate pipe 1	25	Bearing cover	43	Flat washer	61	Bolt
8	Rigid coupling	26	Coupling	44	Nut	62	Setscrew
9	Friction bearing bush	27	Motor	45	Bolt	63	Setscrew
10	Intermediate bearing	28	Bolt	46	Flat washer	64	Screw
11	Pump shaft 2	29	Flat washer	47	Bolt	65	Sleeve
12	wear ring	30	Nut	48	Flat screew	66	Sealing cover
13	Base plate	31	Bolt	49	Nut	67	Grease niple
14	Discharge pipe	32	Flat washer	50	Bolt	68	Gasket
15	Lower sealing cover	33	Nut	51	Flat screew	69	plug washer
16	Lower sealing sleeve	34	Bolt	52	Nut	70	plug
17	Pedestal	35	Flat washer	53	Bolt	71	Impeller nut
18	Intermediate pipe 2	36	Nut	54	Flat Screew	72/73	Cooling pipe set

5. PUMP EXPLODED VIEW



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6	Friction bearing bush	24	Bearing	42	Bolt	60	Flat washer
7	Intermediate pipe 1	25	Bearing cover	43	Flat washer	61	Bolt
8	Rigid coupling	26	Coupling	44	Nut	62	Setscrew
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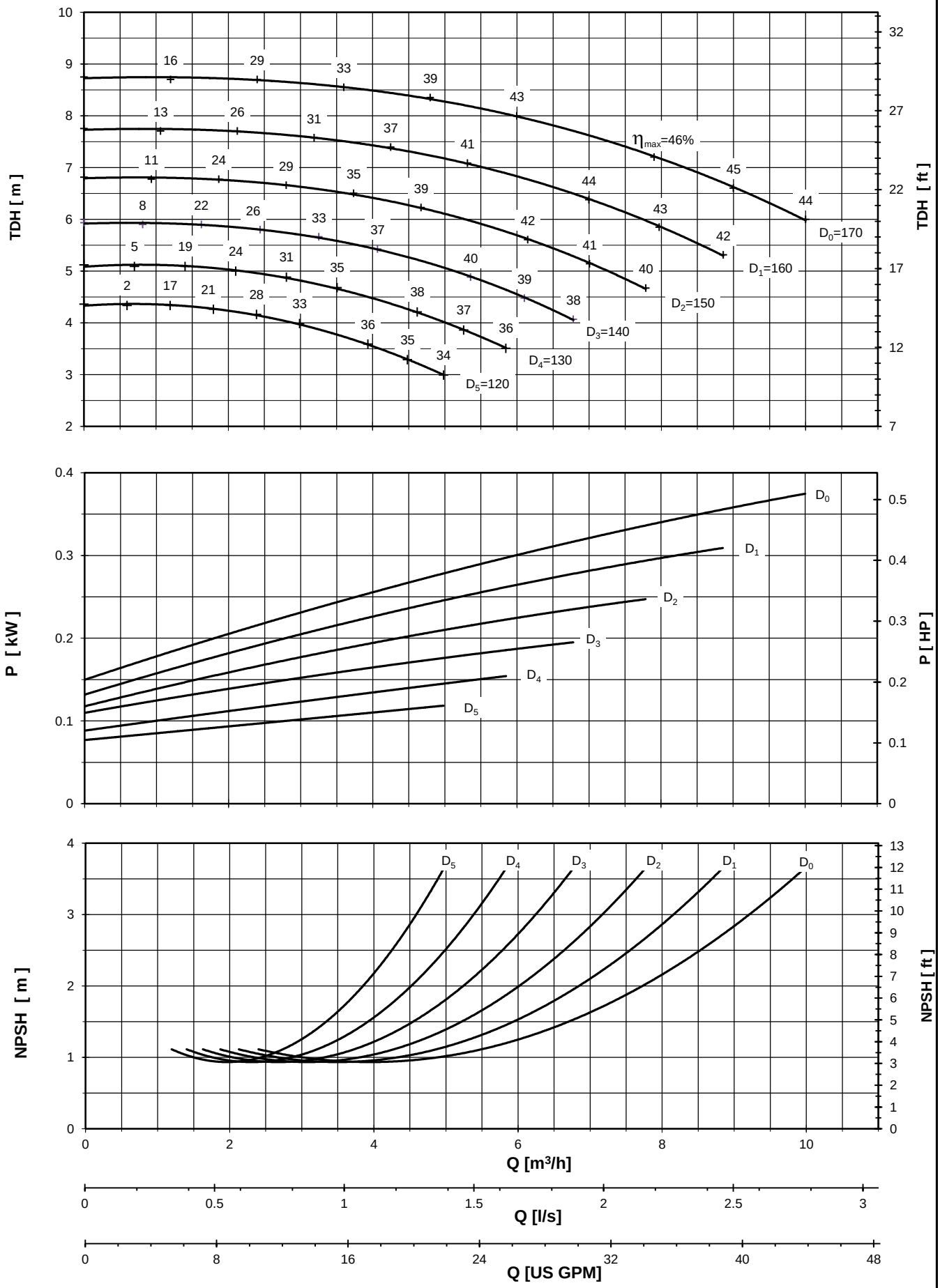
16	Lower sealing sleeve	34	Bolt	52	Nut	70	plug
17	Pedestal	35	Flat washer	53	Bolt	71	Impeller nut
18	Intermediate pipe 2	36	Nut	54	Flat Screew	72/73	Cooling pipe set

MZT PUMPI reserves the right to make changes without prior notice

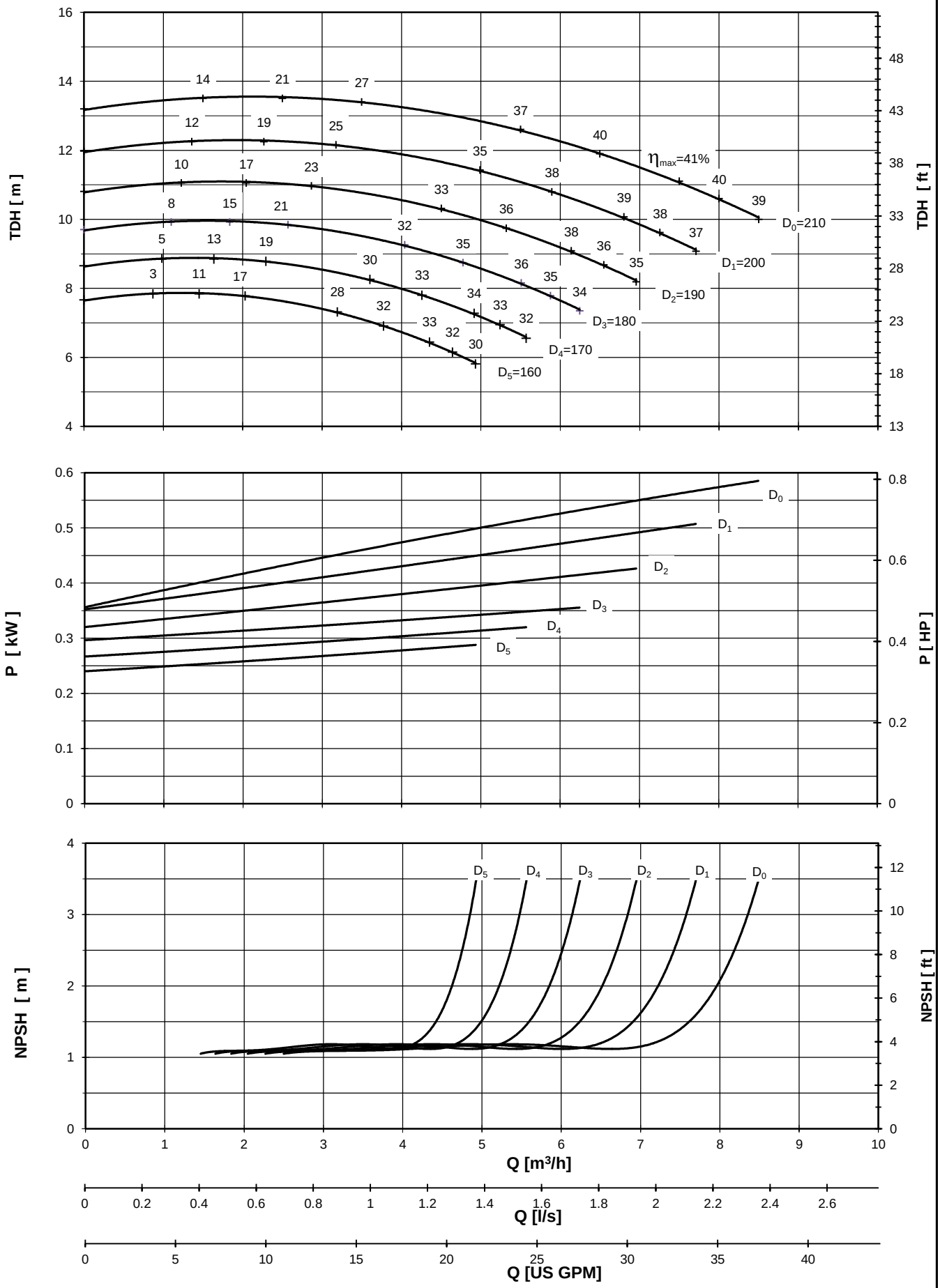
6. PERFORMANCE CURVES

MZT PUMPI	PUMP PERFORMANCE CURVES No. 4HD.0142.03	PUMP TYPE SCPV 32 - 160 1450 [rpm]



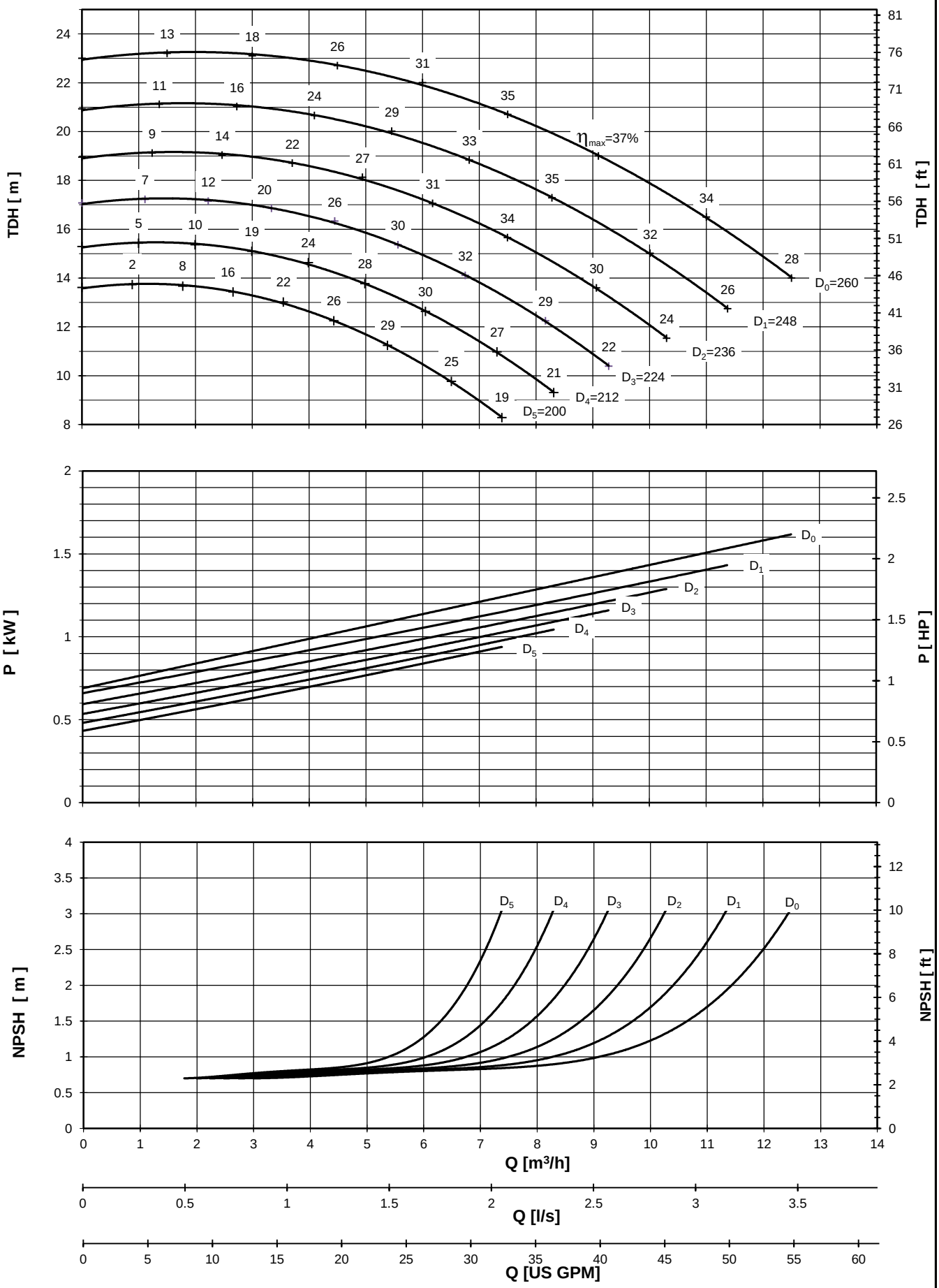
Performance curves are valid for clean cold water-kinematic viscosity 1 [mm^2/s], density 1000 [kg/m^3]. Methods and tolerances of presented performance curves are in accordance with ISO 9906 - Annex A

MZT PUMPI	PUMP PERFORMANCE CURVES No. 4HD.0143.03	PUMP TYPE SCPV 32 - 200 1450 [rpm]



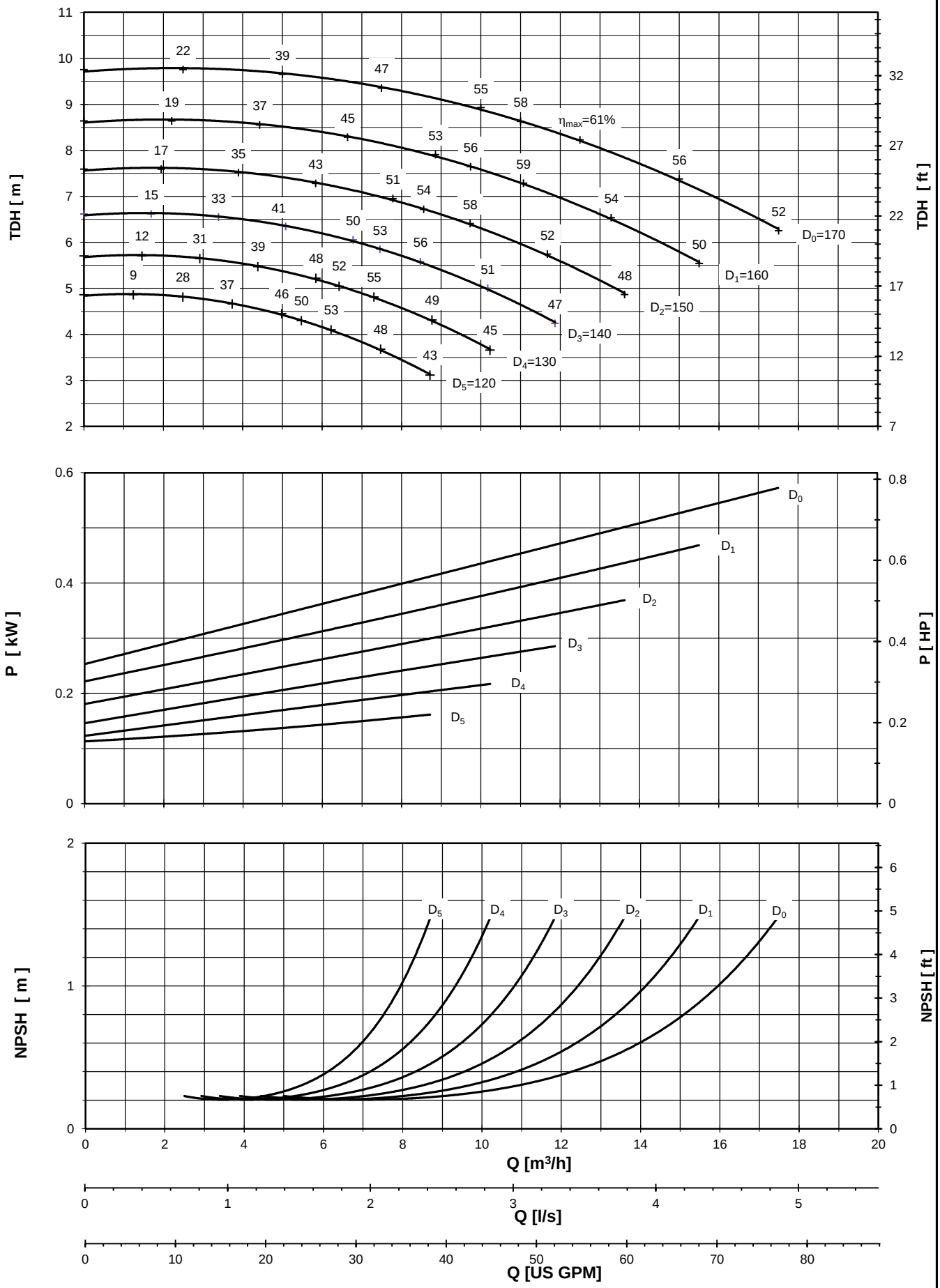
Performance curves are valid for clean cold water-kinematic viscosity 1 [mm^2/s], density 1000 [kg/m^3]. Methods and tolerances of presented performance curves are in accordance with ISO 9906 - Annex A

MZT PUMPI	PUMP PERFORMANCE CURVES No. 4HD.0144.03	PUMP TYPE SCPV 32 - 250 1450 [rpm]



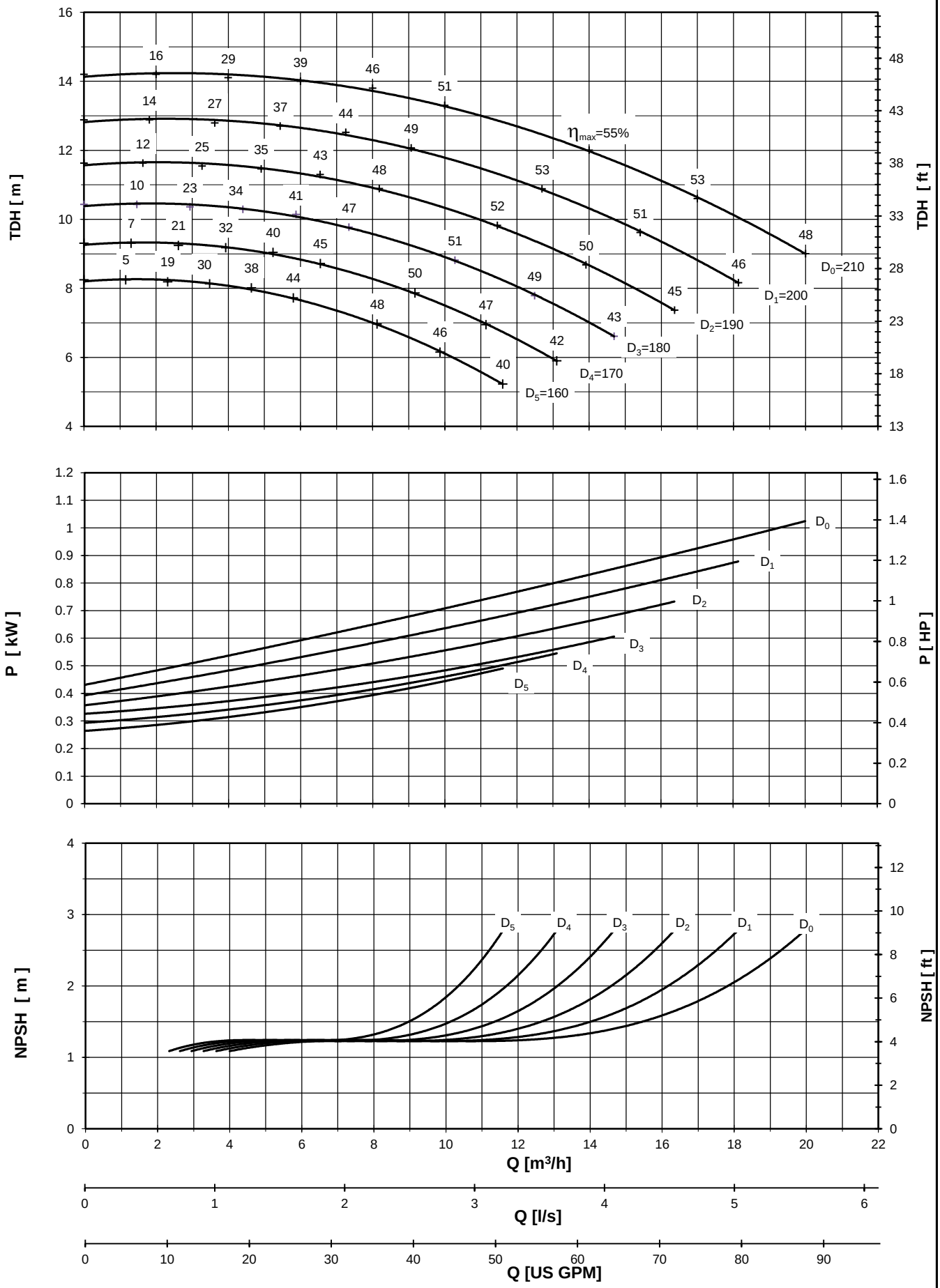
Performance curves are valid for clean cold water-kinematic viscosity 1 [mm^2/s], density 1000 [kg/m^3]. Methods and tolerances of presented performance curves are in accordance with ISO 9906 - Annex A

MZT PUMPI	PUMP PERFORMANCE CURVES No. 4HD.0146.03	PUMP TYPE SCPV 40 - 160 1450 [rpm]



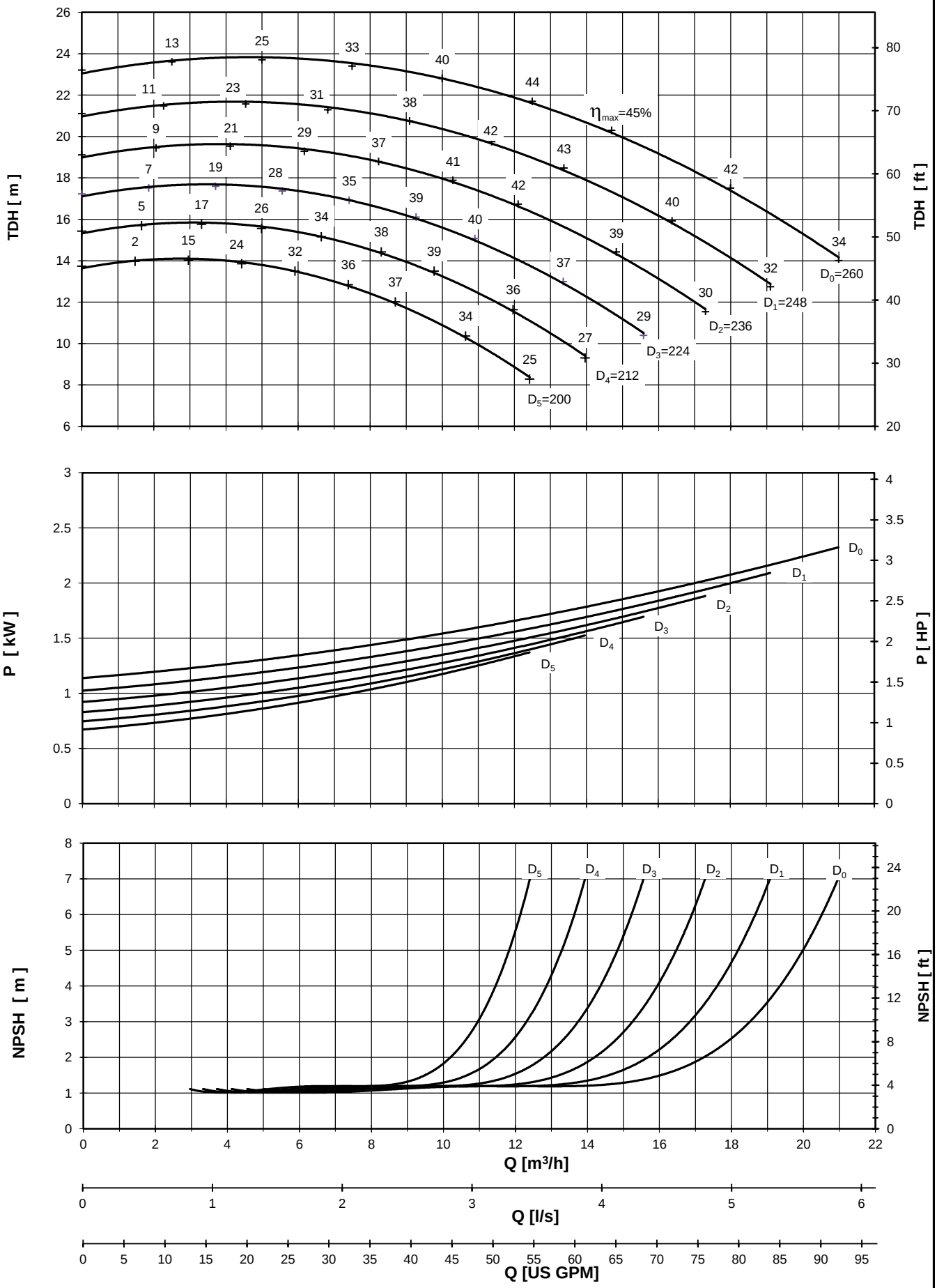
Performance curves are valid for clean cold water-kinematic viscosity 1 [mm^2/s], density 1000 [kg/m^3]. Methods and tolerances of presented performance curves are in accordance with ISO 9906 - Annex A

MZT PUMPI	PUMP PERFORMANCE CURVES No. 4HD.0147.03	PUMP TYPE SCPV 40 - 200 1450 [rpm]



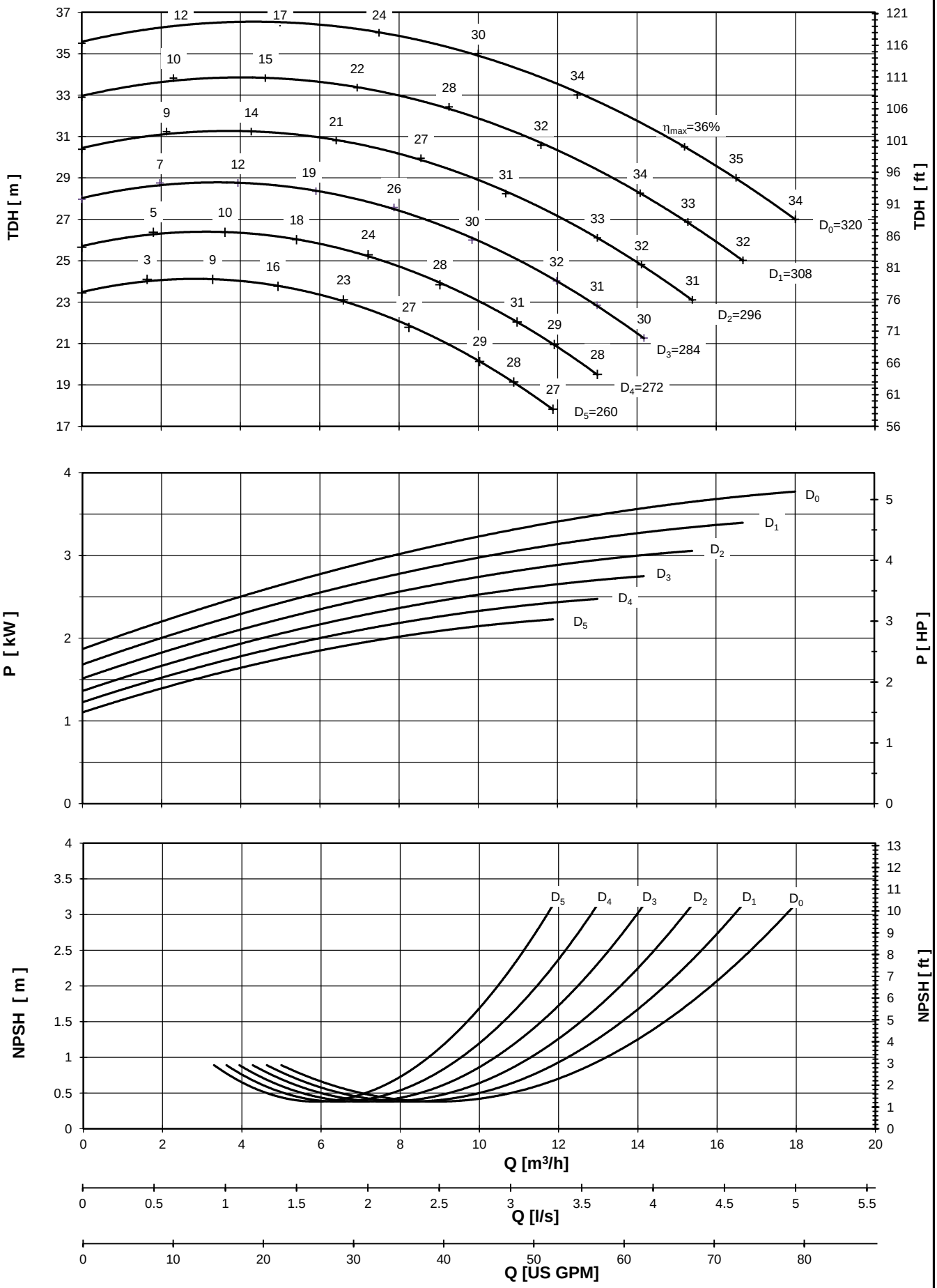
Performance curves are valid for clean cold water-kinematic viscosity 1 [mm^2/s], density 1000 [kg/m^3]. Methods and tolerances of presented performance curves are in accordance with ISO 9906 - Annex A

MZT PUMPI	PUMP PERFORMANCE CURVES No. 4HS.0148.03	PUMP TYPE SCPV 40 - 250 1450 [rpm]



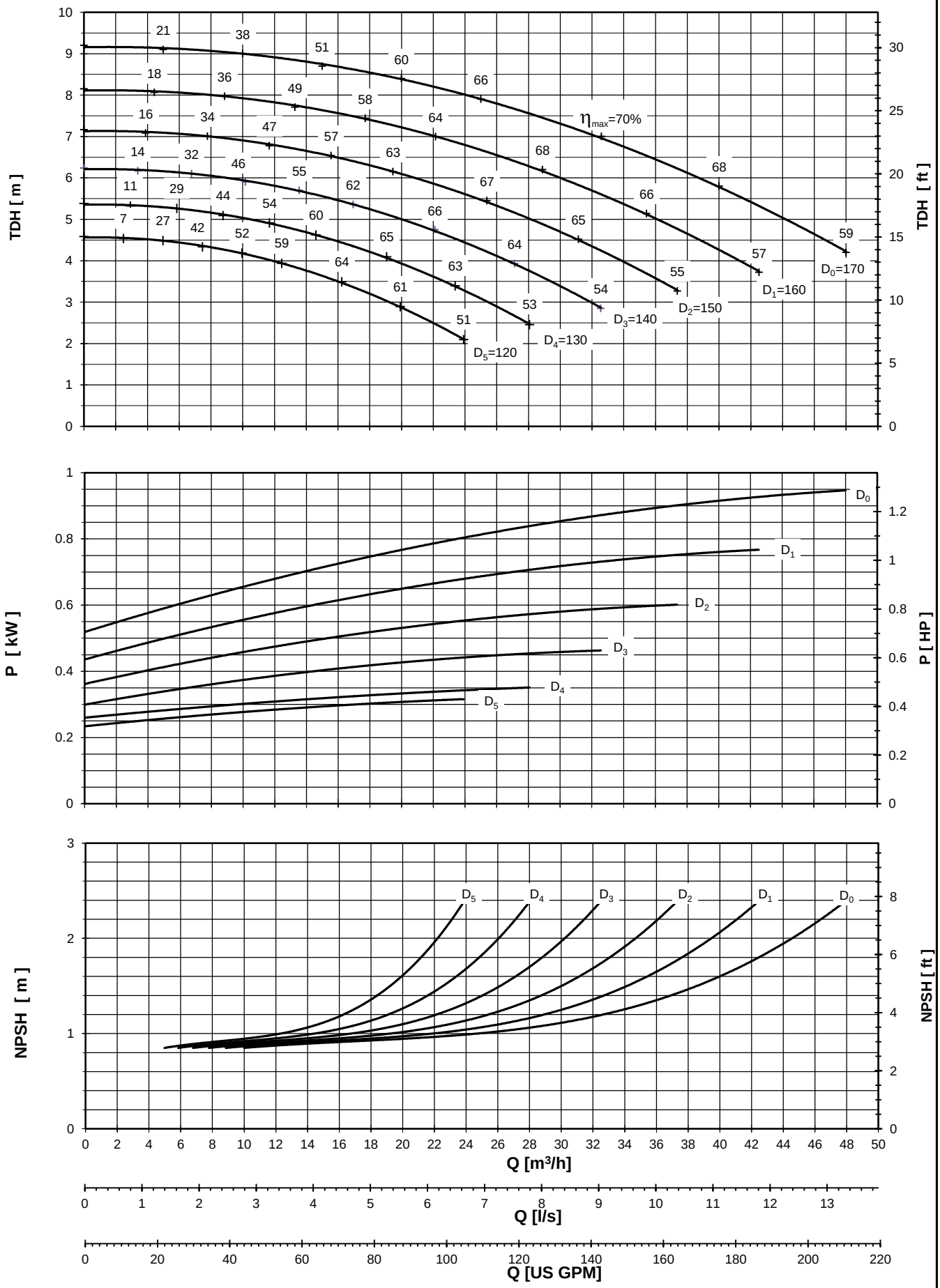
Performance curves are valid for clean cold water-kinematic viscosity 1 [mm^2/s], density 1000 [kg/m^3]. Methods and tolerances of presented performance curves are in accordance with ISO 9906 - Annex A

MZT PUMPI	PUMP PERFORMANCE CURVES No. 4HD.0149.03	PUMP TYPE SCPV 40 - 315 1450 [rpm]



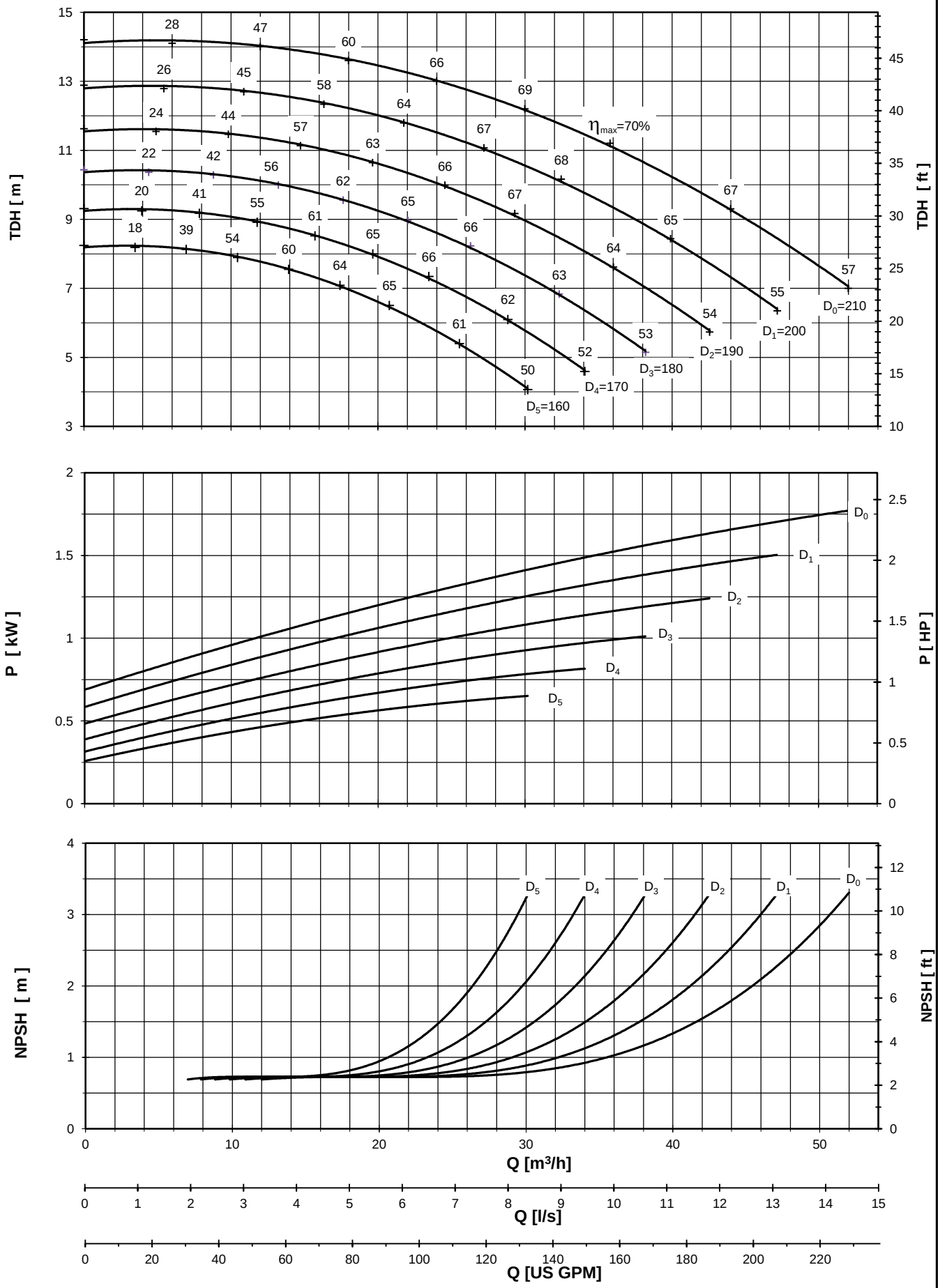
Performance curves are valid for clean cold water-kinematic viscosity 1 [mm^2/s], density 1000 [kg/m^3]. Methods and tolerances of presented performance curves are in accordance with ISO 9906 - Annex A

MZT PUMPI	PUMP PERFORMANCE CURVES No. 4HD.0181.03	PUMP TYPE SCPV 50 - 160 1450 [rpm]



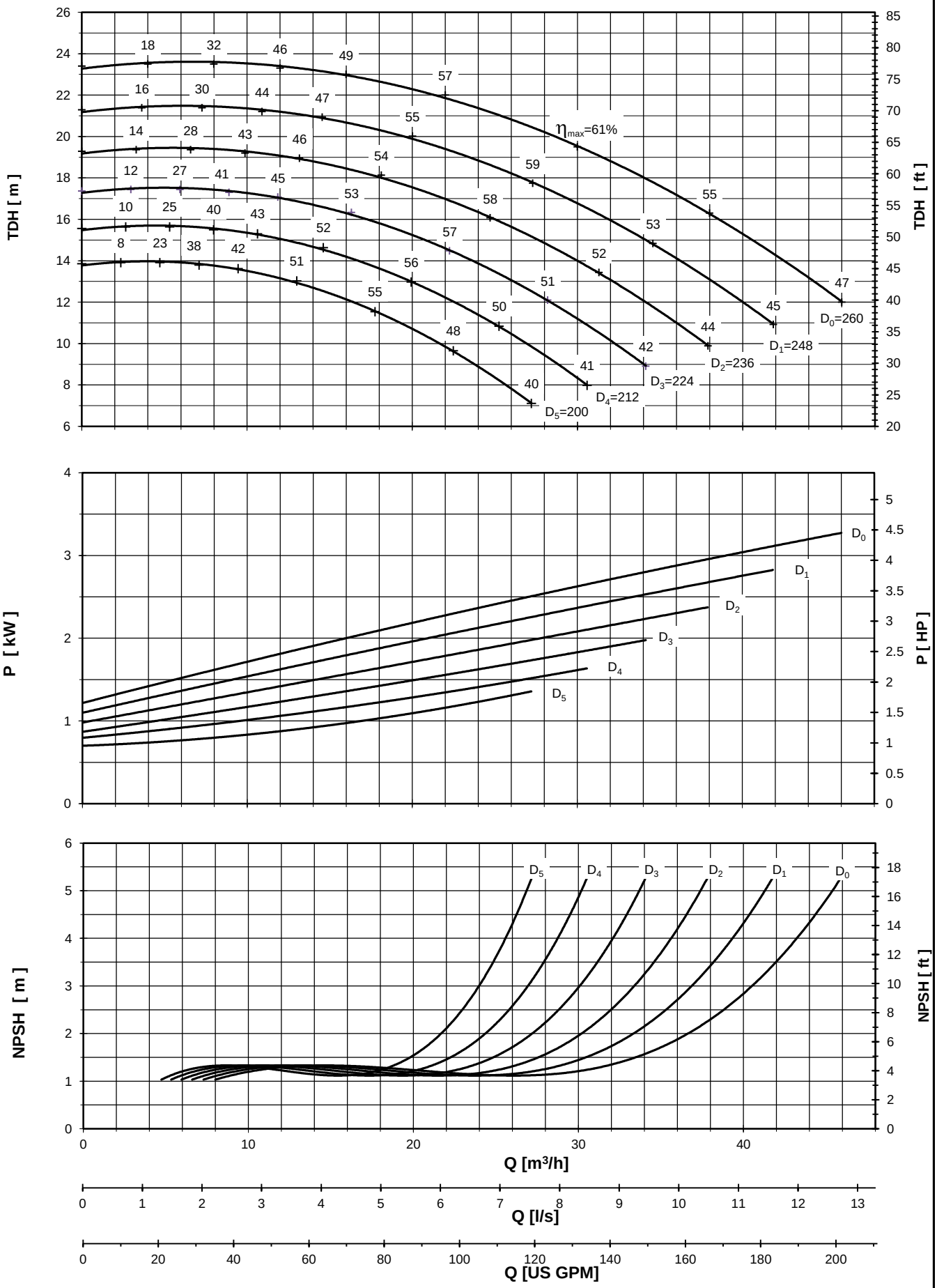
Performance curves are valid for clean cold water-kinematic viscosity 1 [mm^2/s], density 1000 [kg/m^3]. Methods and tolerances of presented performance curves are in accordance with ISO 9906 - Annex A

MZT PUMPI	PUMP PERFORMANCE CURVES No. 4HD.0152.03	PUMP TYPE SCPV 50 - 200 1450 [rpm]



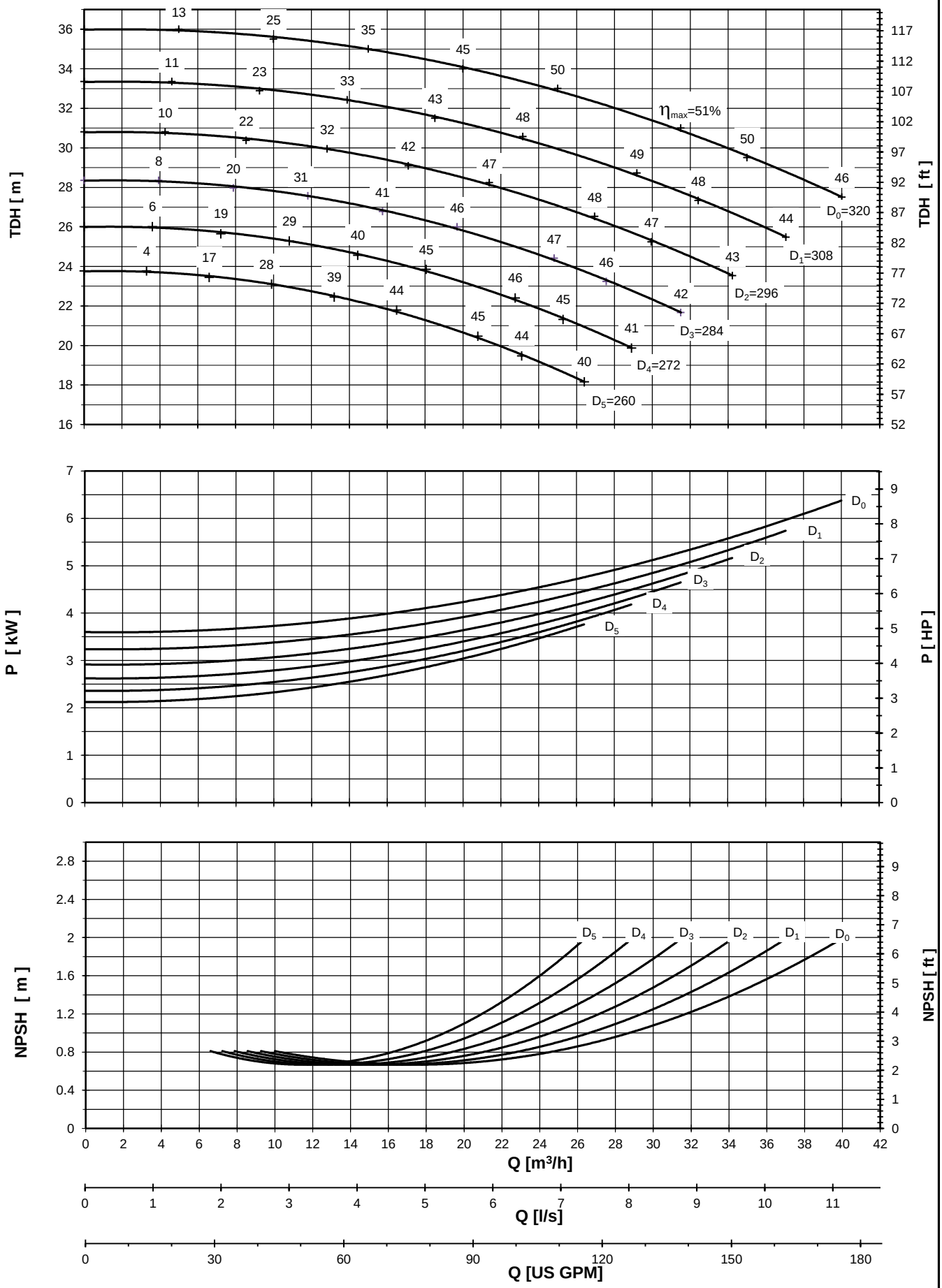
Performance curves are valid for clean cold water-kinematic viscosity 1 [mm^2/s], density 1000 [kg/m^3]. Methods and tolerances of presented performance curves are in accordance with ISO 9906 - Annex A

MZT PUMPI	PUMP PERFORMANCE CURVES No. 4HD.0153.03	PUMP TYPE SCPV 50 - 250 1450 [rpm]



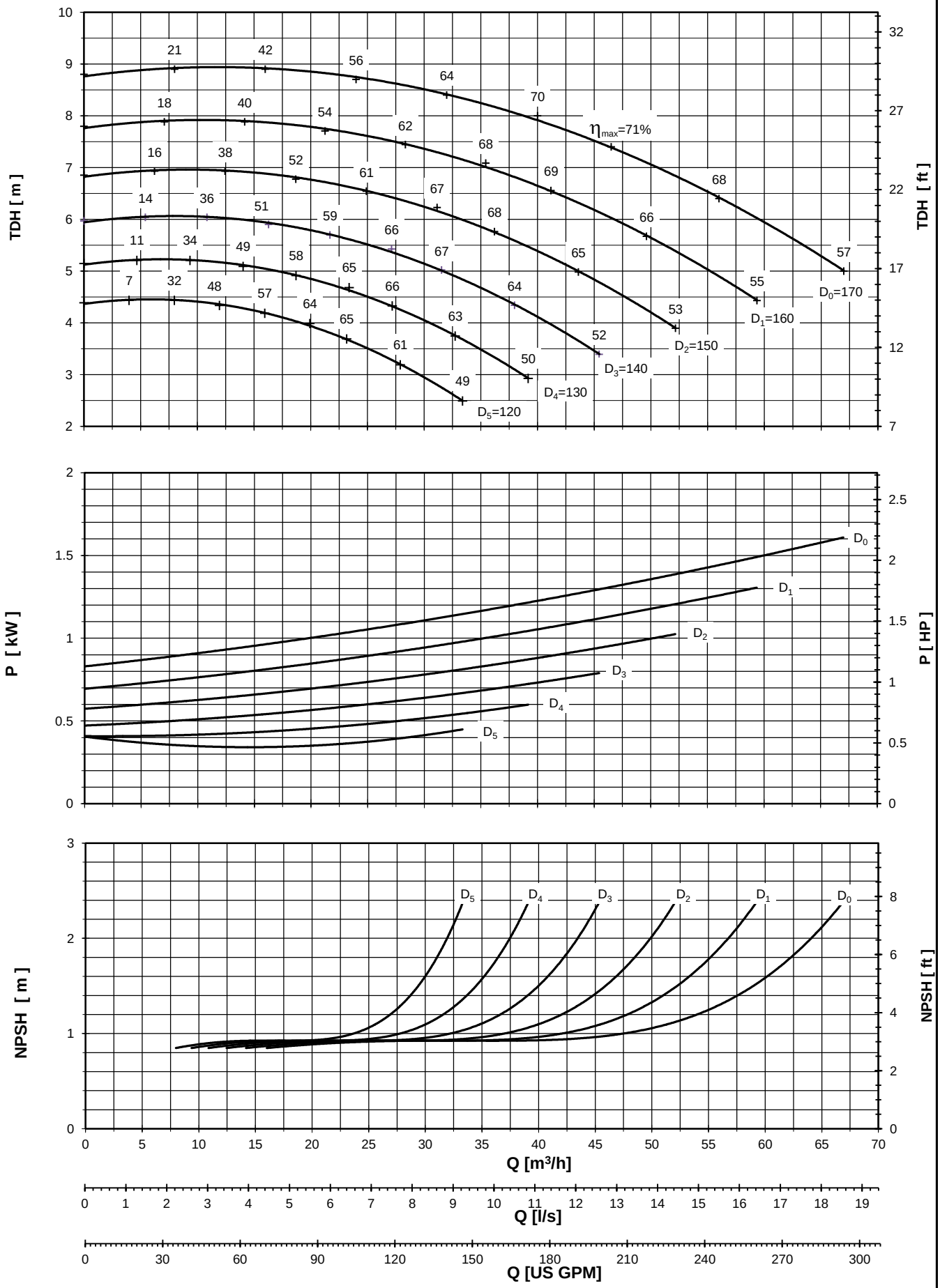
Performance curves are valid for clean cold water-kinematic viscosity 1 [mm^2/s], density 1000 [kg/m^3]. Methods and tolerances of presented performance curves are in accordance with ISO 9906 - Annex A

MZT PUMPI	PUMP PERFORMANCE CURVES No. 4HD.0154.03	PUMP TYPE SCPV 50 - 315 1450 [rpm]



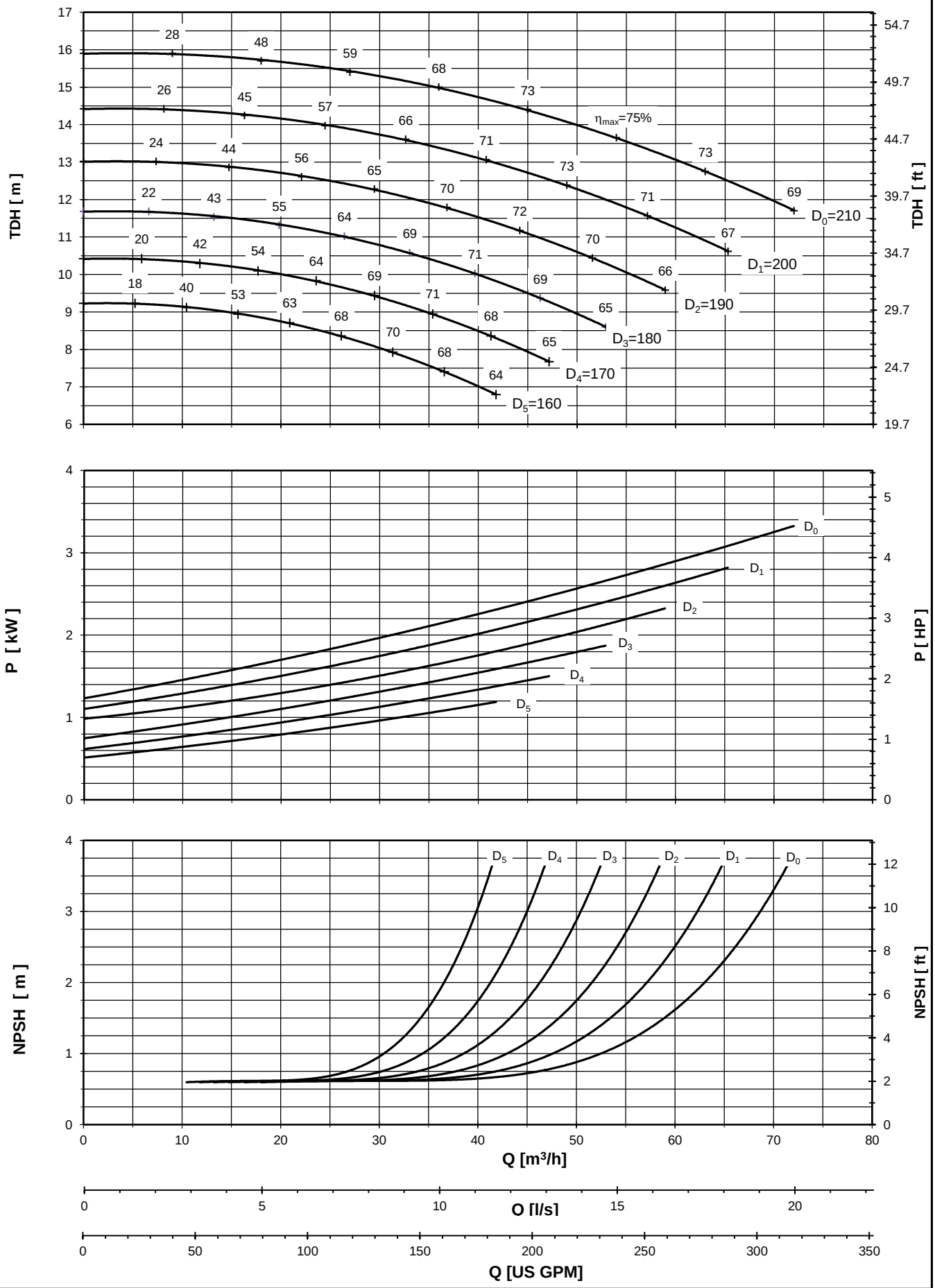
Performance curves are valid for clean cold water-kinematic viscosity 1 [mm^2/s], density 1000 [kg/m^3]. Methods and tolerances of presented performance curves are in accordance with ISO 9906 - Annex A

MZT PUMPI	PUMP PERFORMANCE CURVES No. 4HD.0151.03	PUMP TYPE SCPV 65 - 160 1450 [rpm]



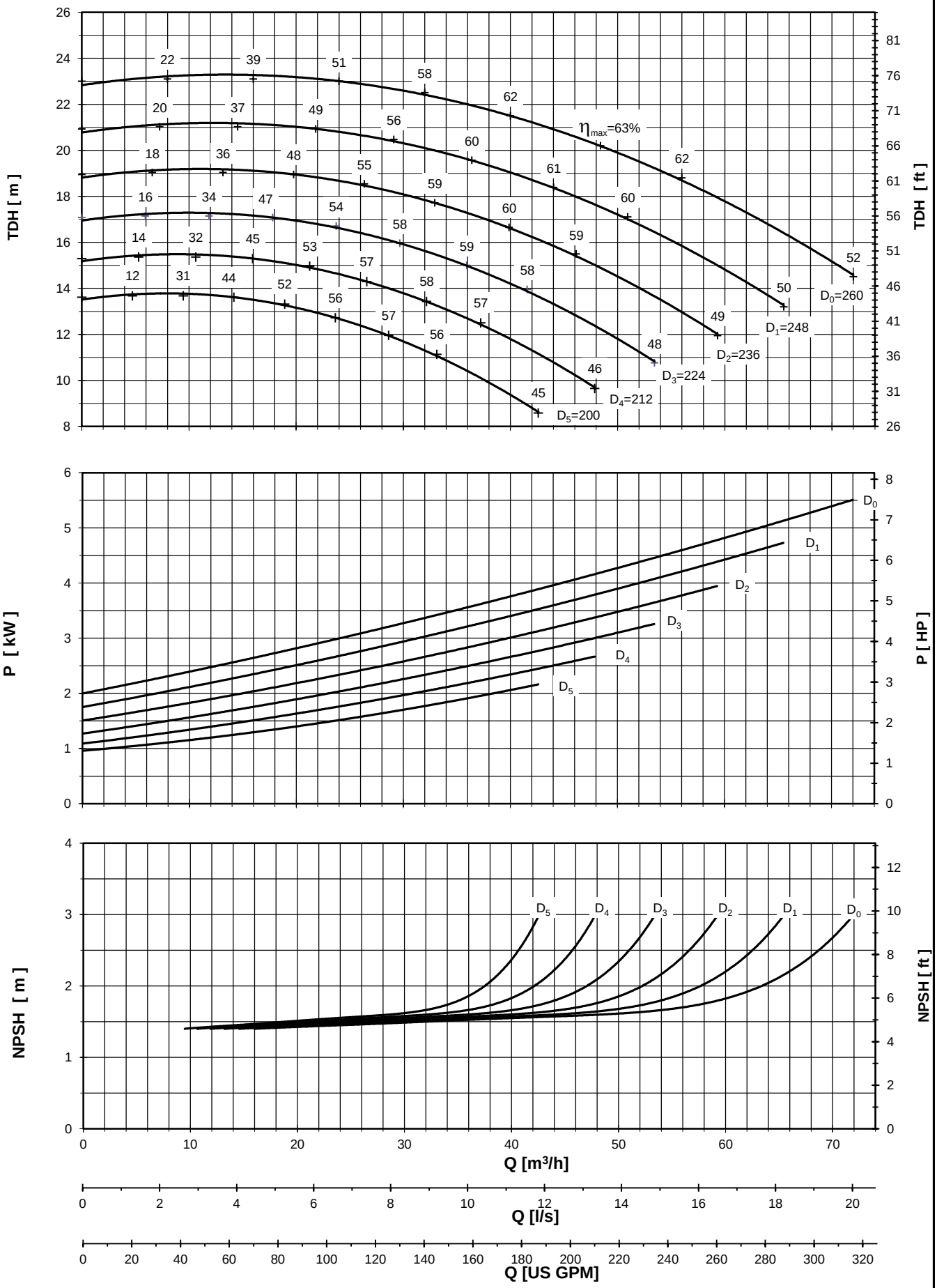
Performance curves are valid for clean cold water-kinematic viscosity 1 [mm^2/s], density 1000 [kg/m^3]. Methods and tolerances of presented performance curves are in accordance with ISO 9906 - Annex A

MZT PUMPI	PUMP PERFORMANCE CURVES No. 4HD.0157.03	PUMP TYPE SCPV 65 - 200 1450 [rpm]



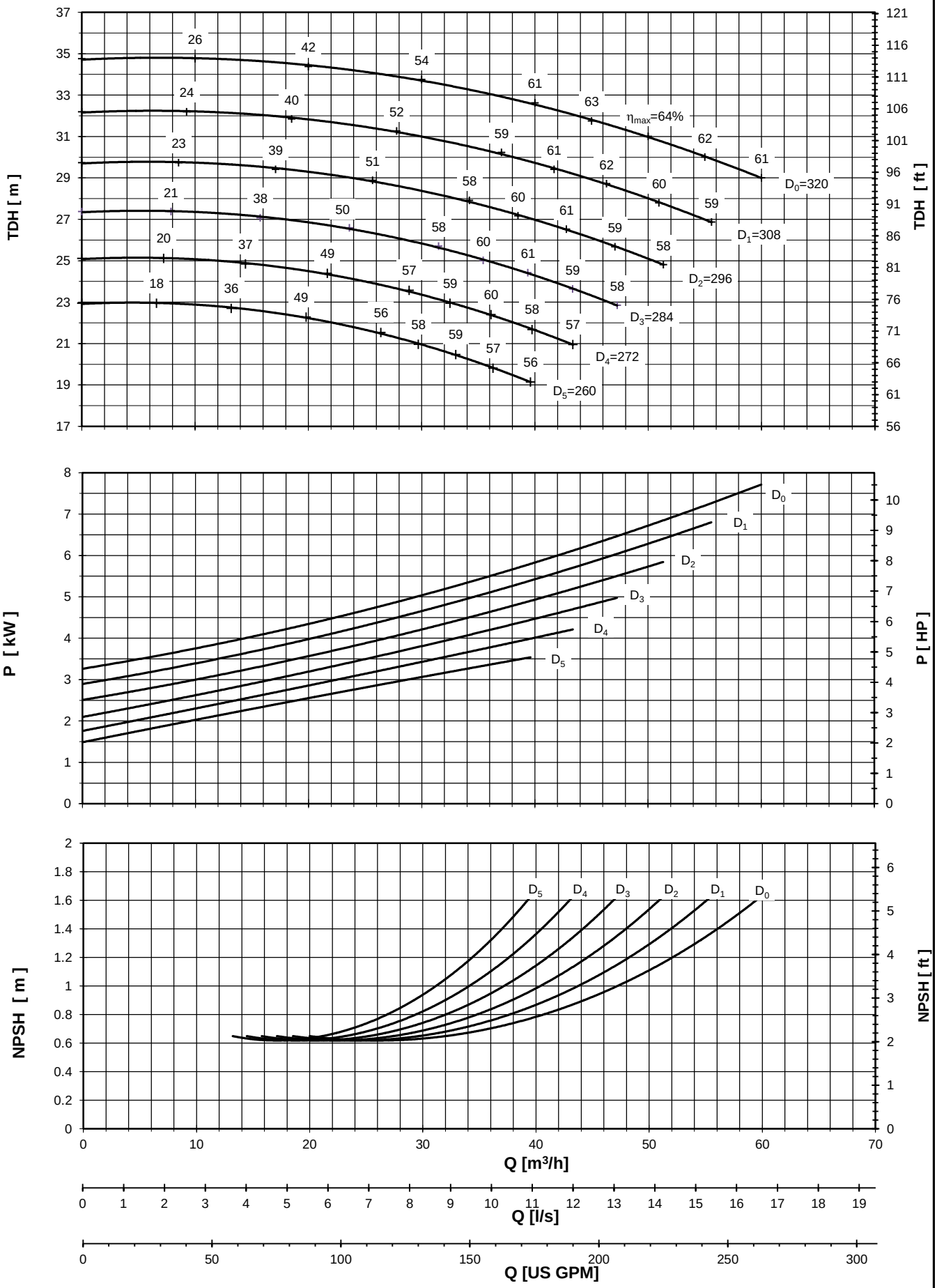
Performance curves are valid for clean cold water-kinematic viscosity 1 [mm2/s], density 1000 [kg/m3]. Methods and tolerances of presented performance curves are in accordance with ISO 9906 - Annex A

MZT PUMPI	PUMP PERFORMANCE CURVES No. 4HD.0158.03	PUMP TYPE SCPV 65 - 250 1450 [rpm]



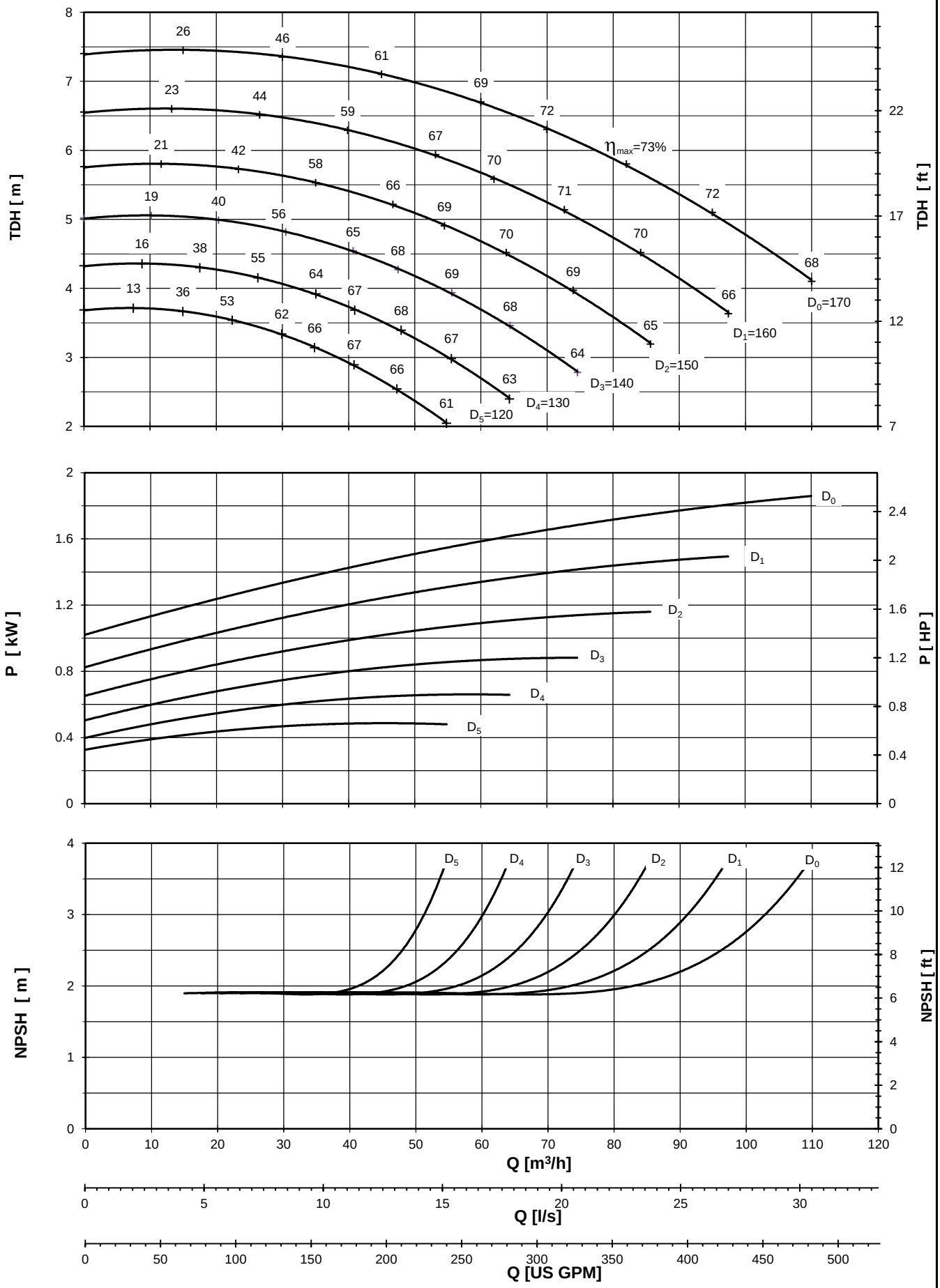
Performance curves are valid for clean cold water-kinematic viscosity 1 [mm^2/s], density 1000 [kg/m^3]. Methods and tolerances of presented performance curves are in accordance with ISO 9906 - Annex A

MZT PUMPI	PUMP PERFORMANCE CURVES No. 4HD.0159.03	PUMP TYPE SCPV 65 - 315 1450 [rpm]



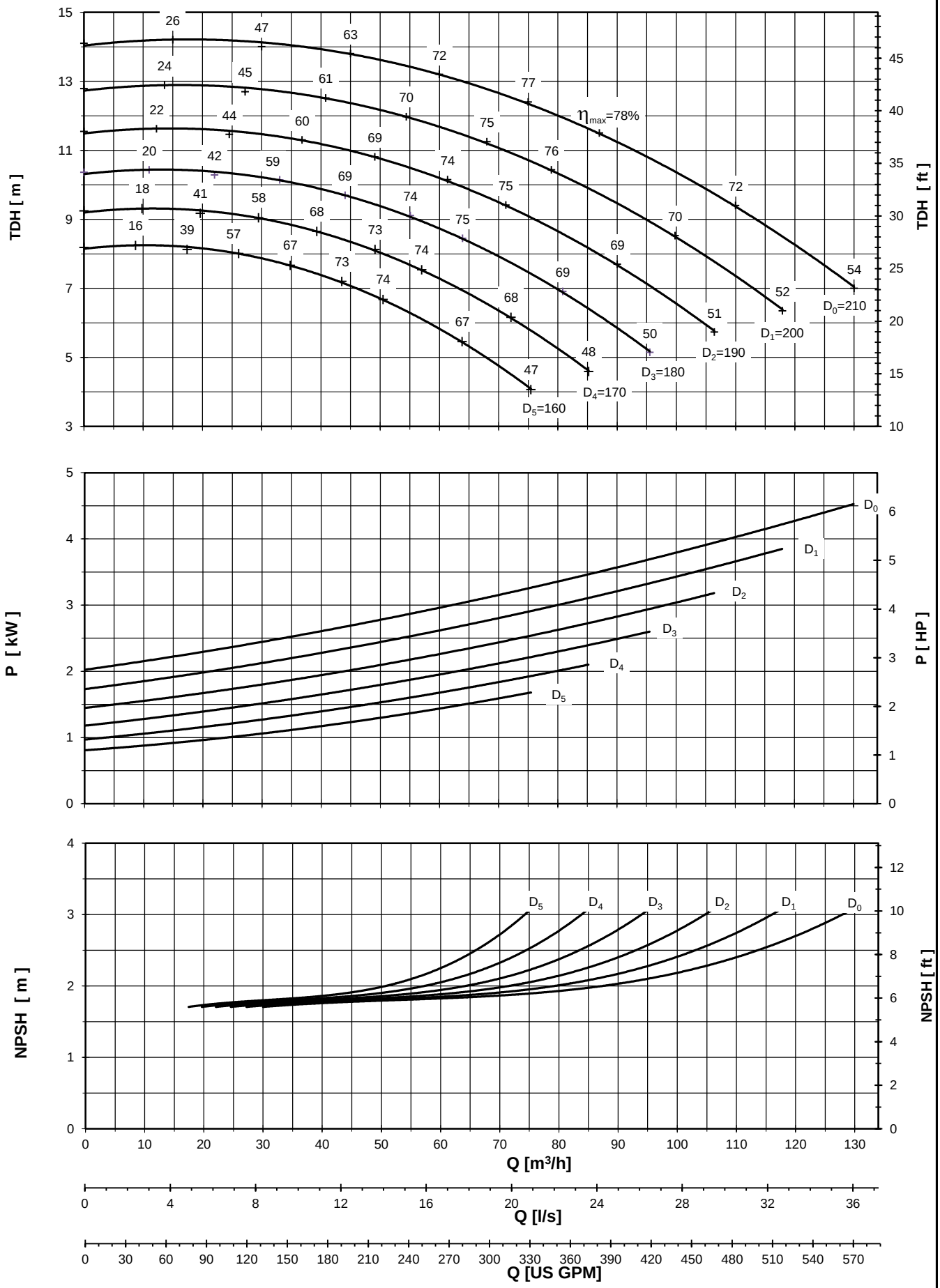
Performance curves are valid for clean cold water-kinematic viscosity 1 [mm^2/s], density 1000 [kg/m^3]. Methods and tolerances of presented performance curves are in accordance with ISO 9906 - Annex A

MZT PUMPI	PUMP PERFORMANCE CURVES No. 4HD.0160.03	PUMP TYPE SCPV 80 - 160 1450 [rpm]



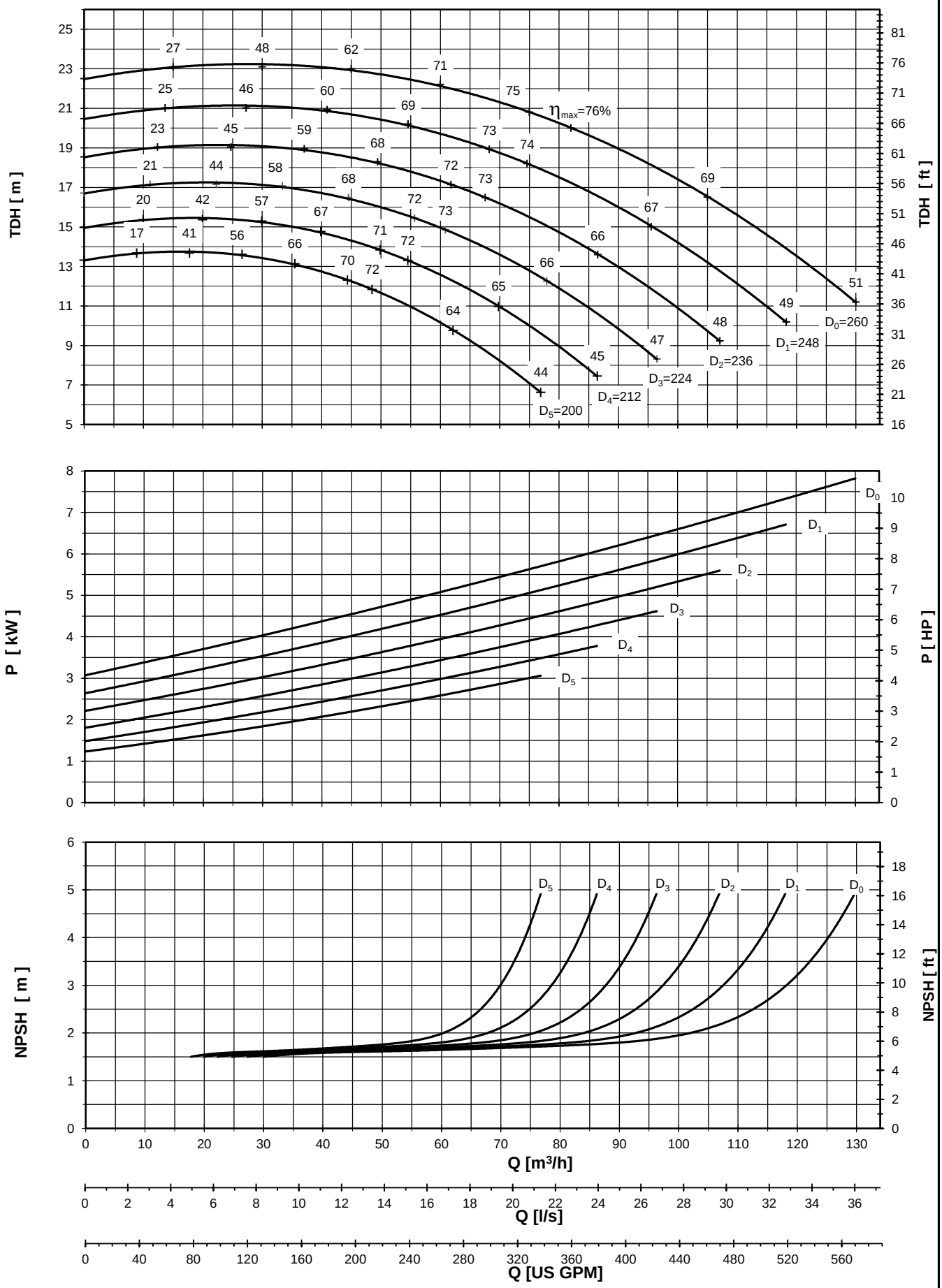
Performance curves are valid for clean cold water-kinematic viscosity 1 [mm^2/s], density 1000 [kg/m^3]. Methods and tolerances of presented performance curves are in accordance with ISO 9906 - Annex A

MZT PUMPI	PUMP PERFORMANCE CURVES No. 4HD.0161.03	PUMP TYPE SCPV 80 - 200 1450 [rpm]



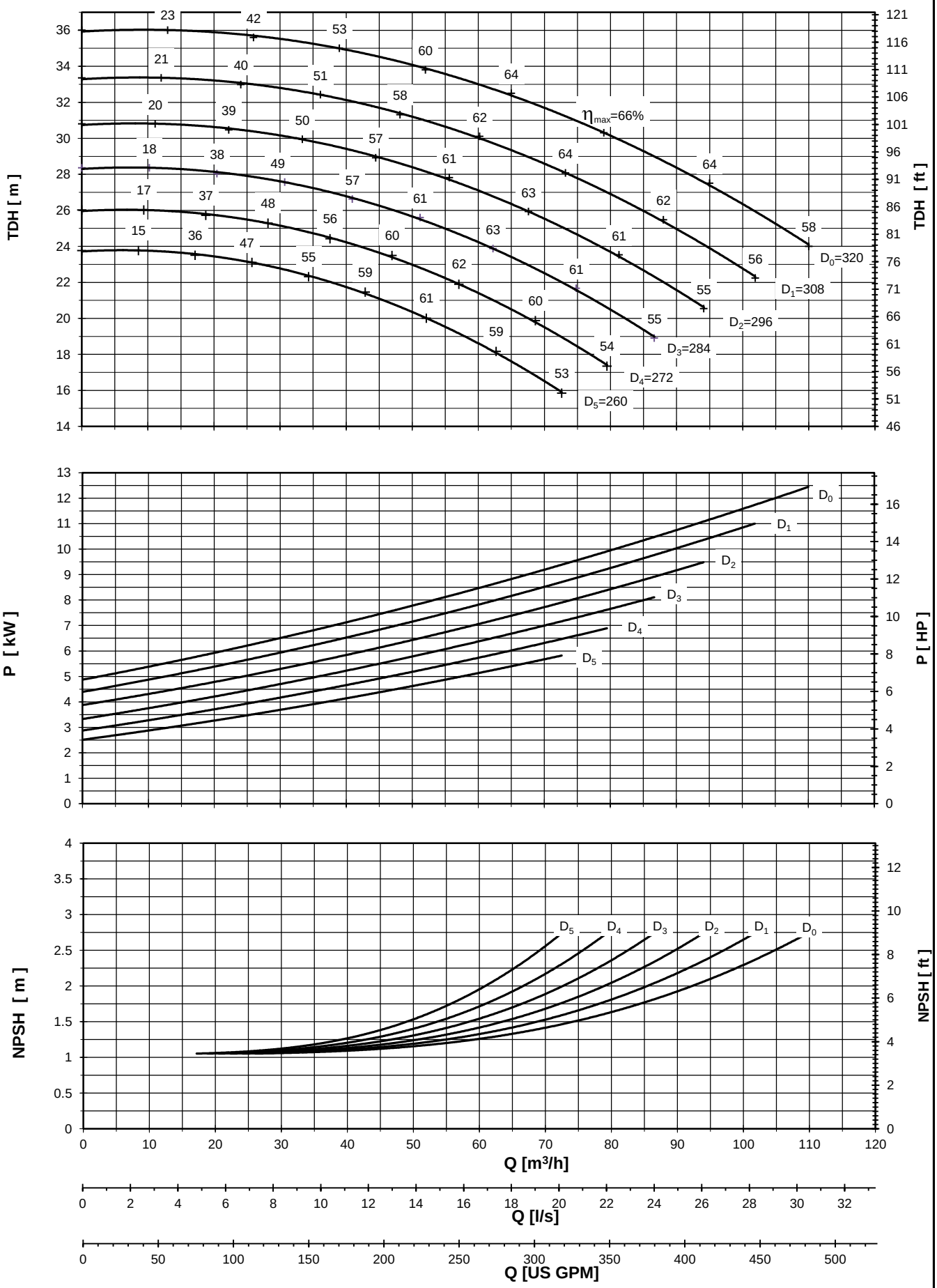
Performance curves are valid for clean cold water-kinematic viscosity 1 [mm^2/s], density 1000 [kg/m^3]. Methods and tolerances of presented performance curves are in accordance with ISO 9906 - Annex A

MZT PUMPI	PUMP PERFORMANCE CURVES No. 4HD.0162.03	PUMP TYPE SCPV 80 - 250 1450 [rpm]



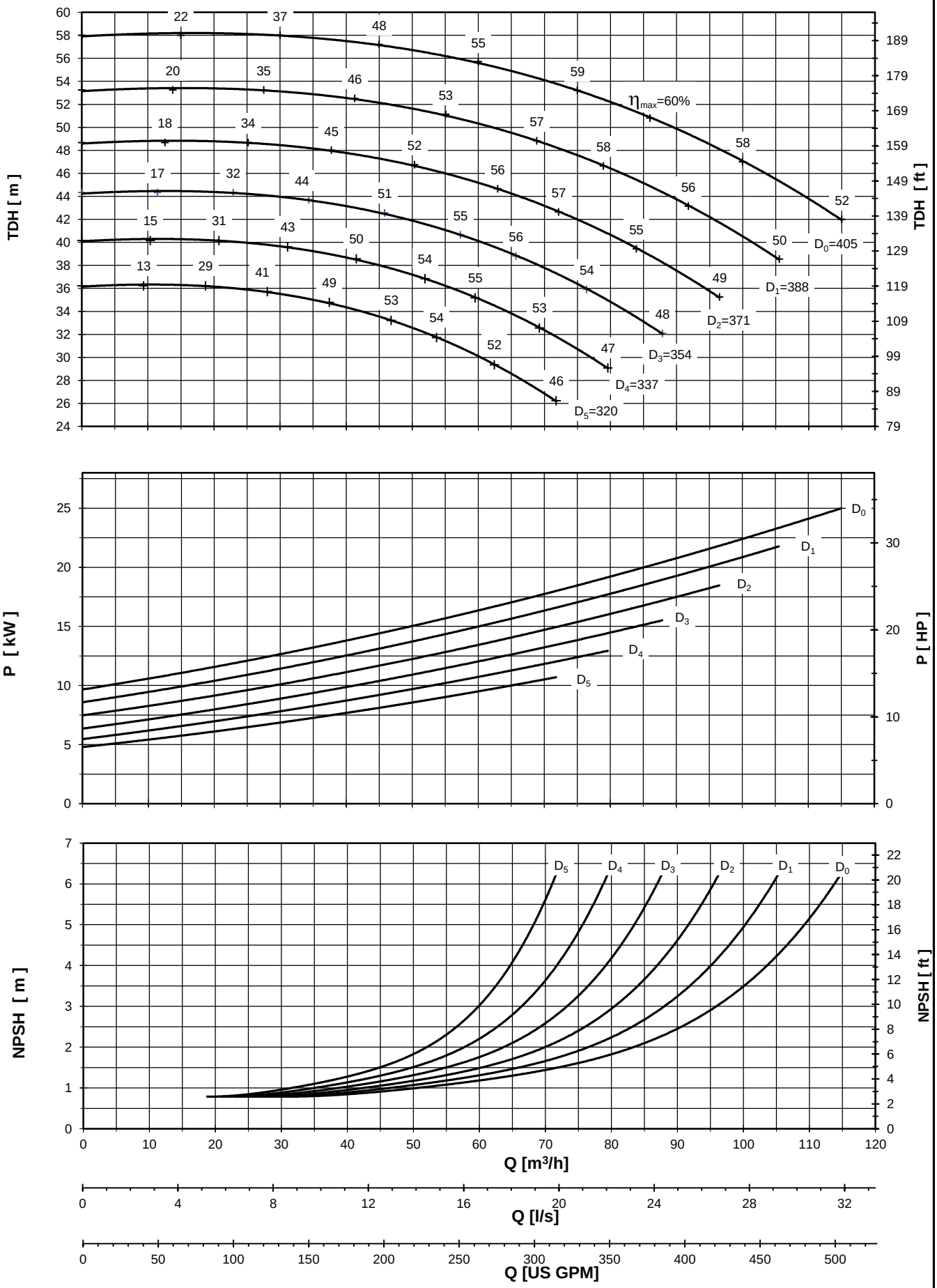
Performance curves are valid for clean cold water-kinematic viscosity 1 [mm^2/s], density 1000 [kg/m^3]. Methods and tolerances of presented performance curves are in accordance with ISO 9906 - Annex A

MZT PUMPI	PUMP PERFORMANCE CURVES No. 4HD.0163.03	PUMP TYPE SCPV 80 - 315 1450 [rpm]



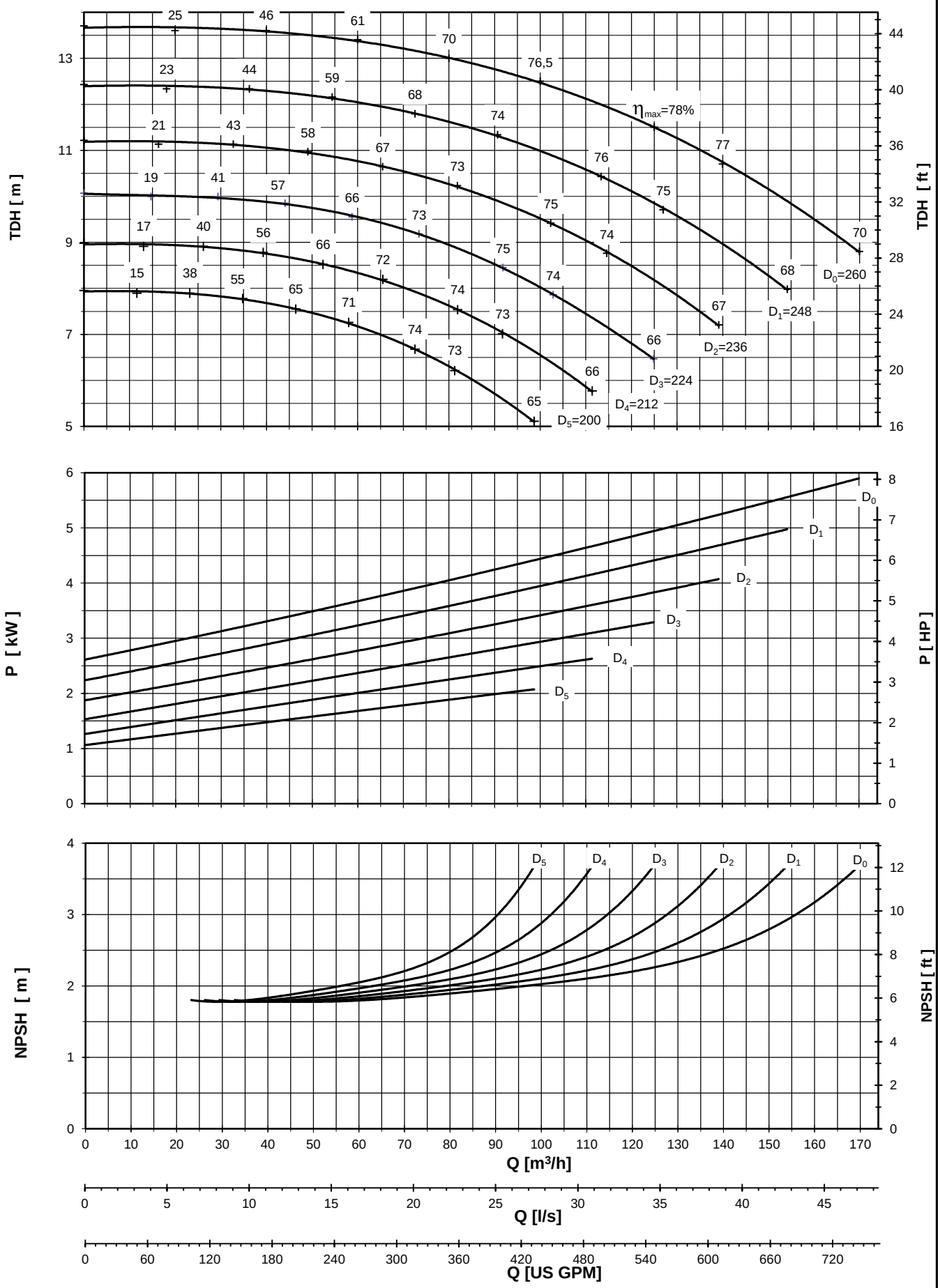
Performance curves are valid for clean cold water-kinematic viscosity 1 [mm^2/s], density 1000 [kg/m^3]. Methods and tolerances of presented performance curves are in accordance with ISO 9906 - Annex A

MZT PUMPI	PUMP PERFORMANCE CURVES No. 4HD.0164.03	PUMP TYPE SCPV 80 - 400 1450 [rpm]



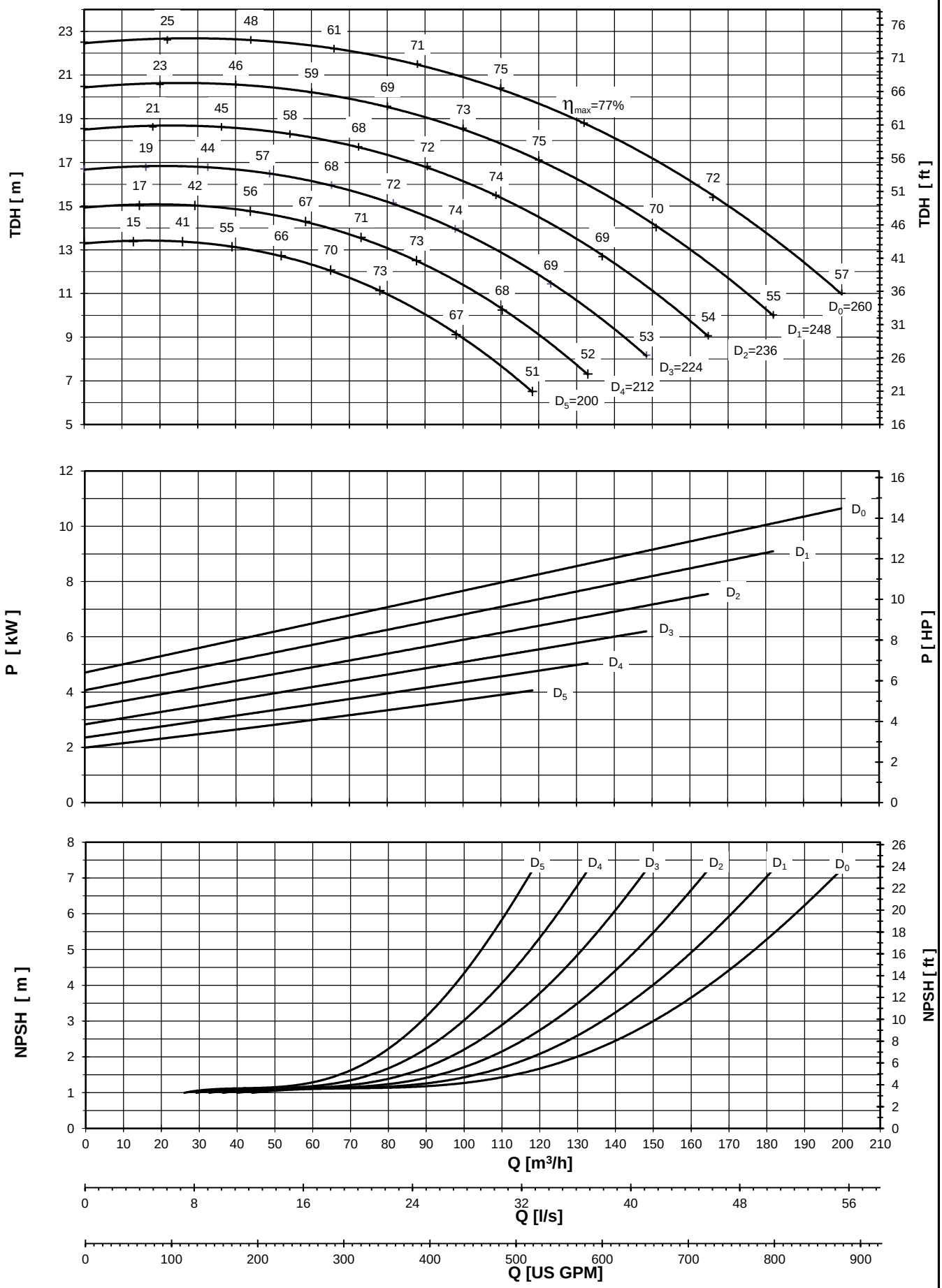
Performance curves are valid for clean cold water-kinematic viscosity 1 [mm^2/s], density 1000 [kg/m^3]. Methods and tolerances of presented performance curves are in accordance with ISO 9906 - Annex A

MZT PUMPI	PUMP PERFORMANCE CURVES No. 4HD.0165.03	PUMP TYPE SCPV 100 - 200 1450 [rpm]



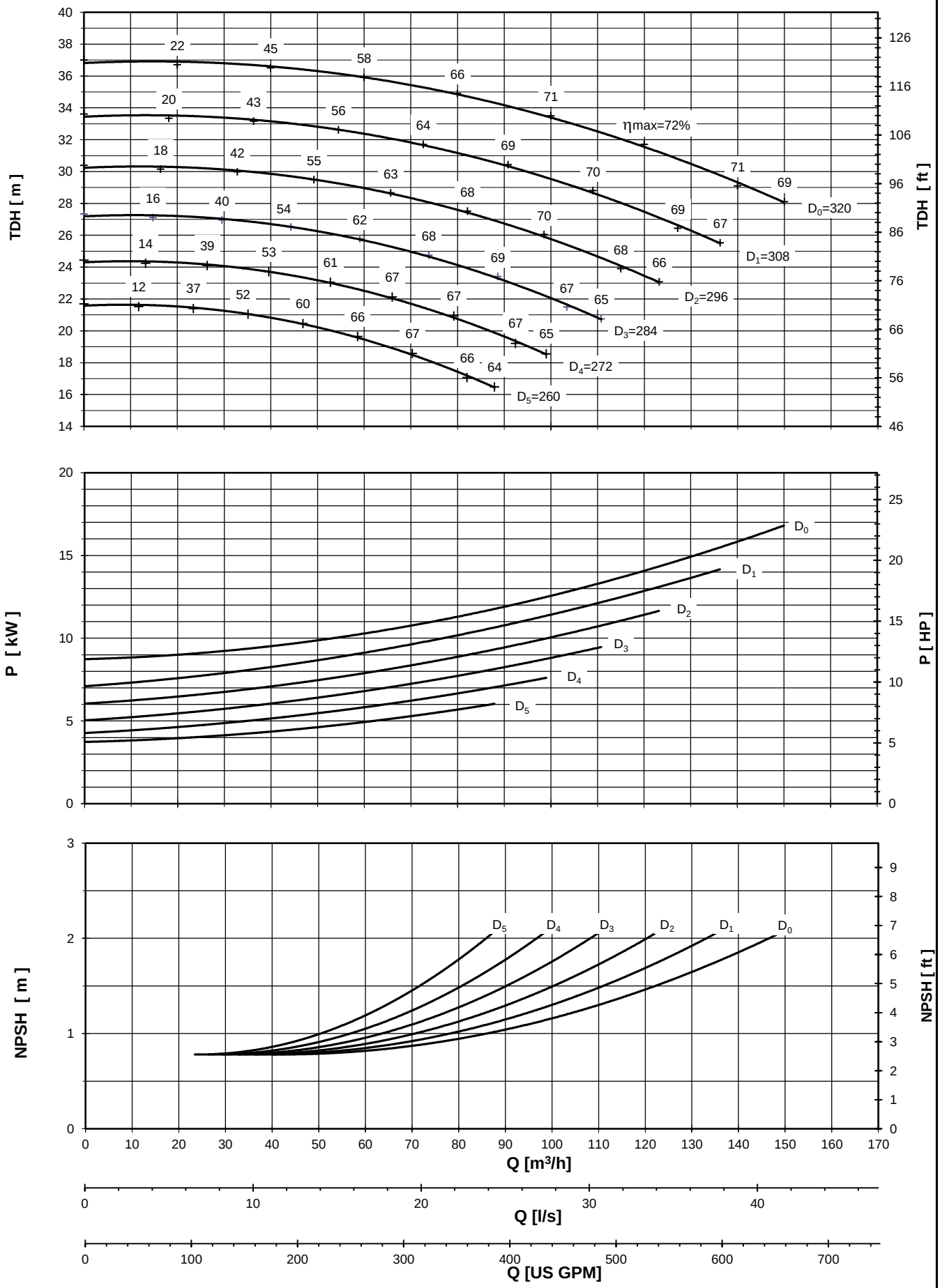
Performance curves are valid for clean cold water-kinematic viscosity 1 [mm^2/s], density 1000 [kg/m^3]. Methods and tolerances of presented performance curves are in accordance with ISO 9906 - Annex A

MZT PUMPI	PUMP PERFORMANCE CURVES No. 4HD.0166.03	PUMP TYPE SCPV 100 - 250 1450 [rpm]



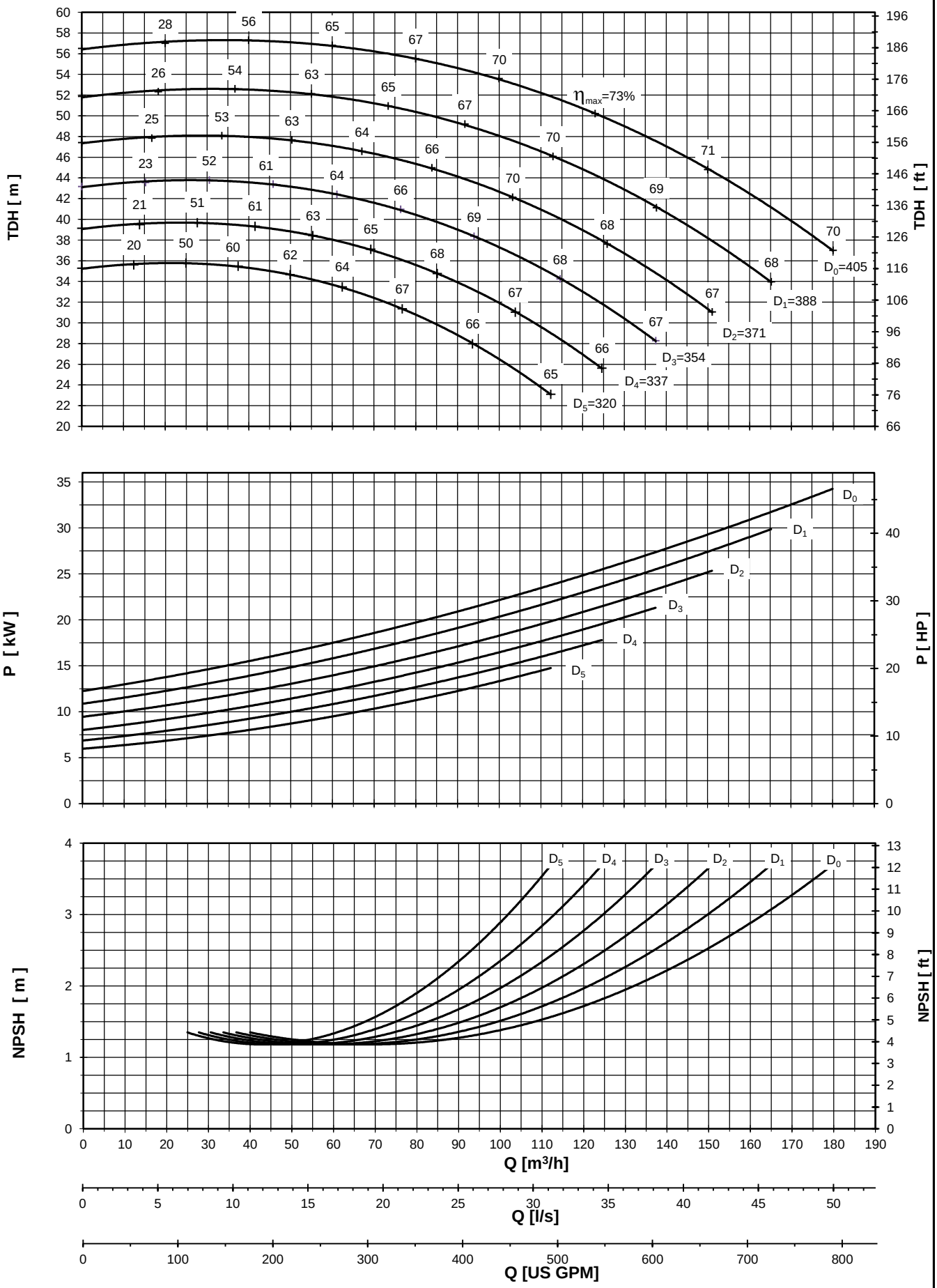
Performance curves are valid for clean cold water-kinematic viscosity 1 [mm^2/s], density 1000 [kg/m^3]. Methods and tolerances of presented performance curves are in accordance with ISO 9906 - Annex A

MZT PUMPI	PUMP PERFORMANCE CURVES No. 4HD.0167.03	PUMP TYPE SCPV 100 - 315 1450 [rpm]



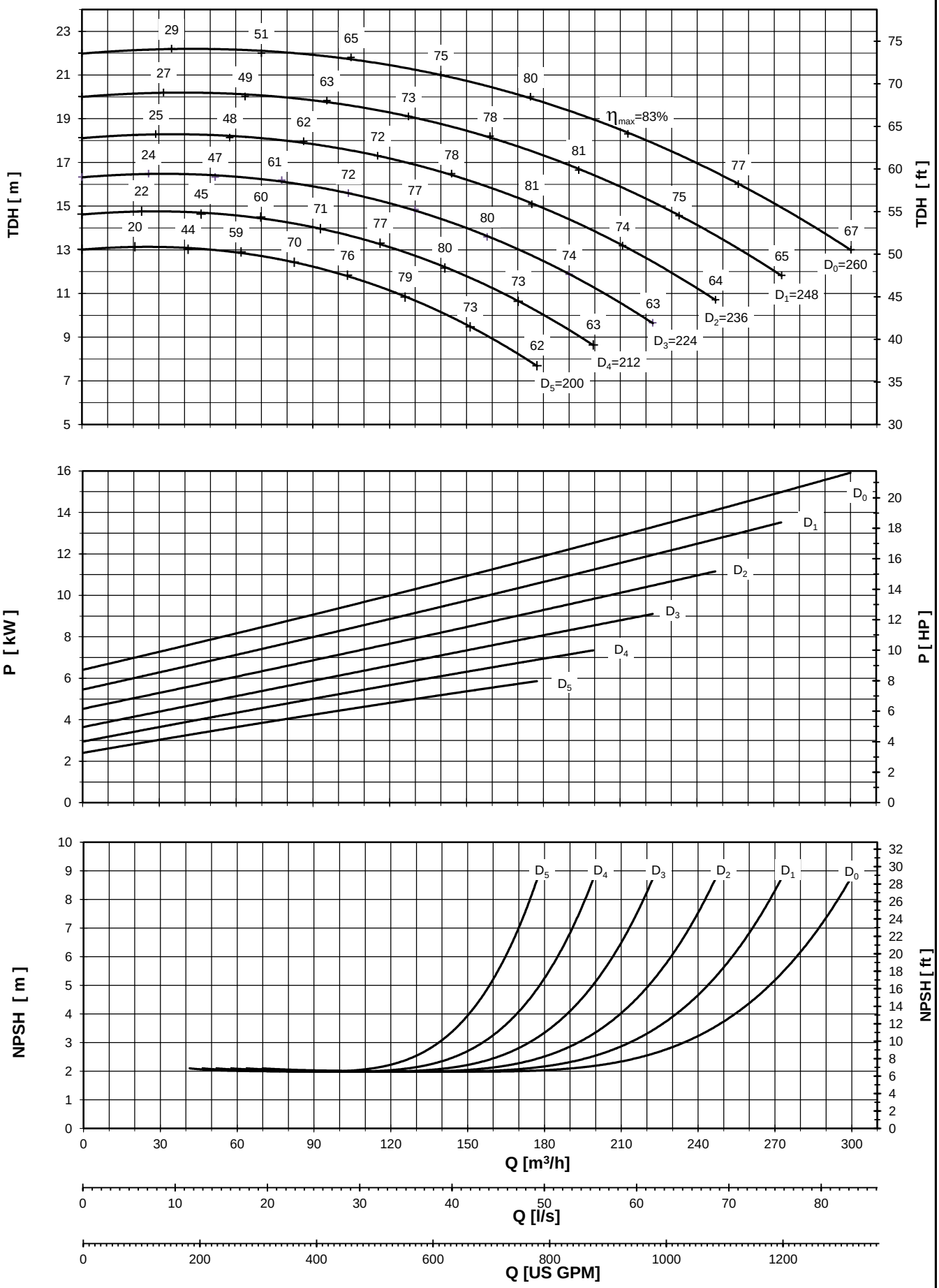
Performance curves are valid for clean cold water-kinematic viscosity 1 [mm^2/s], density 1000 [kg/m^3]. Methods and tolerances of presented performance curves are in accordance with ISO 9906 - Annex A

MZT PUMPI	PUMP PERFORMANCE CURVES No. 4HD.0168.03	PUMP TYPE SCPV 100 - 400 1450 [rpm]



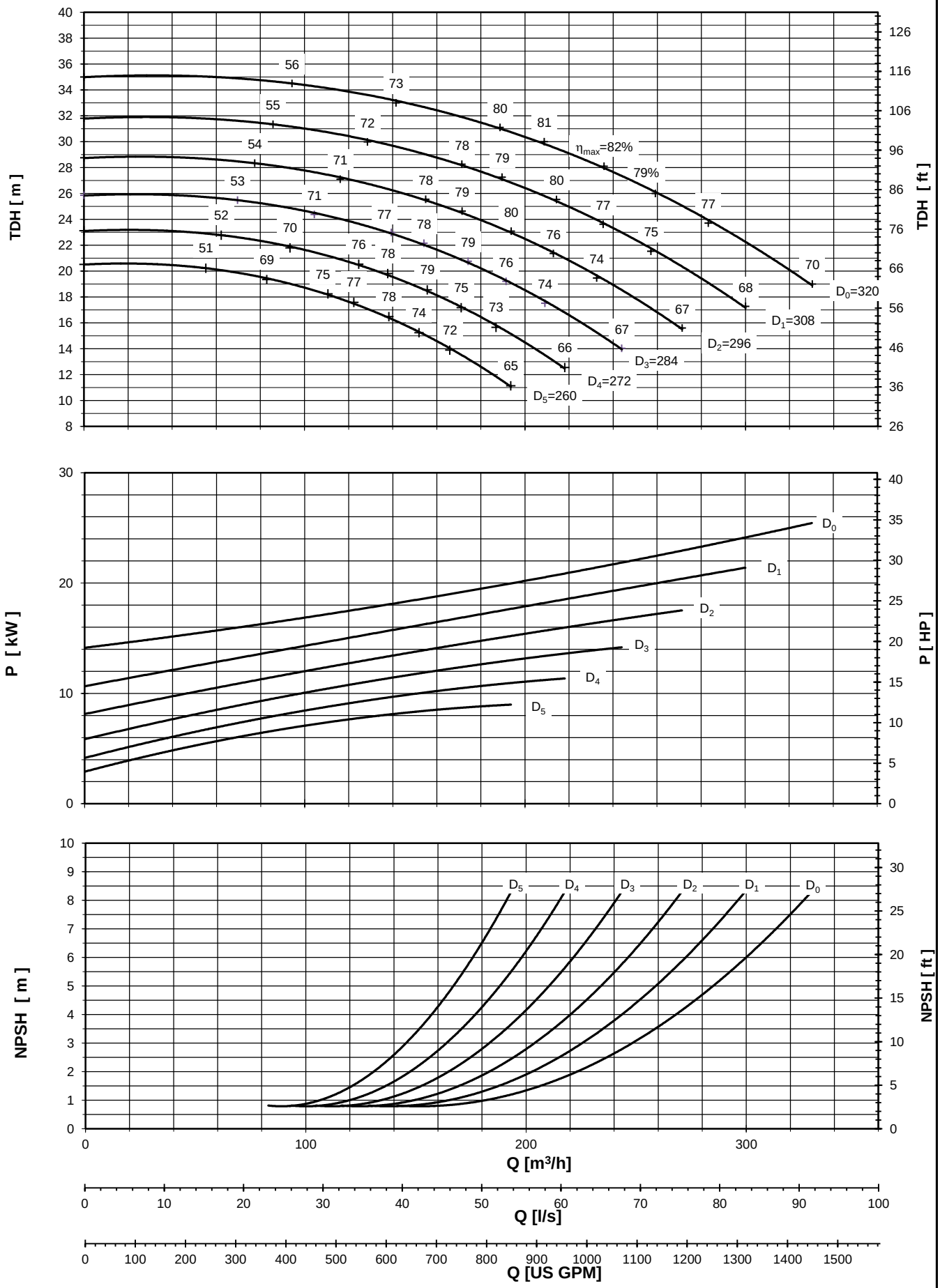
Performance curves are valid for clean cold water-kinematic viscosity 1 [mm^2/s], density 1000 [kg/m^3]. Methods and tolerances of presented performance curves are in accordance with ISO 9906 - Annex A

MZT PUMPI	PUMP PERFORMANCE CURVES No. 4HD.0169.03	PUMP TYPE SCPV 125 - 250 1450 [rpm]



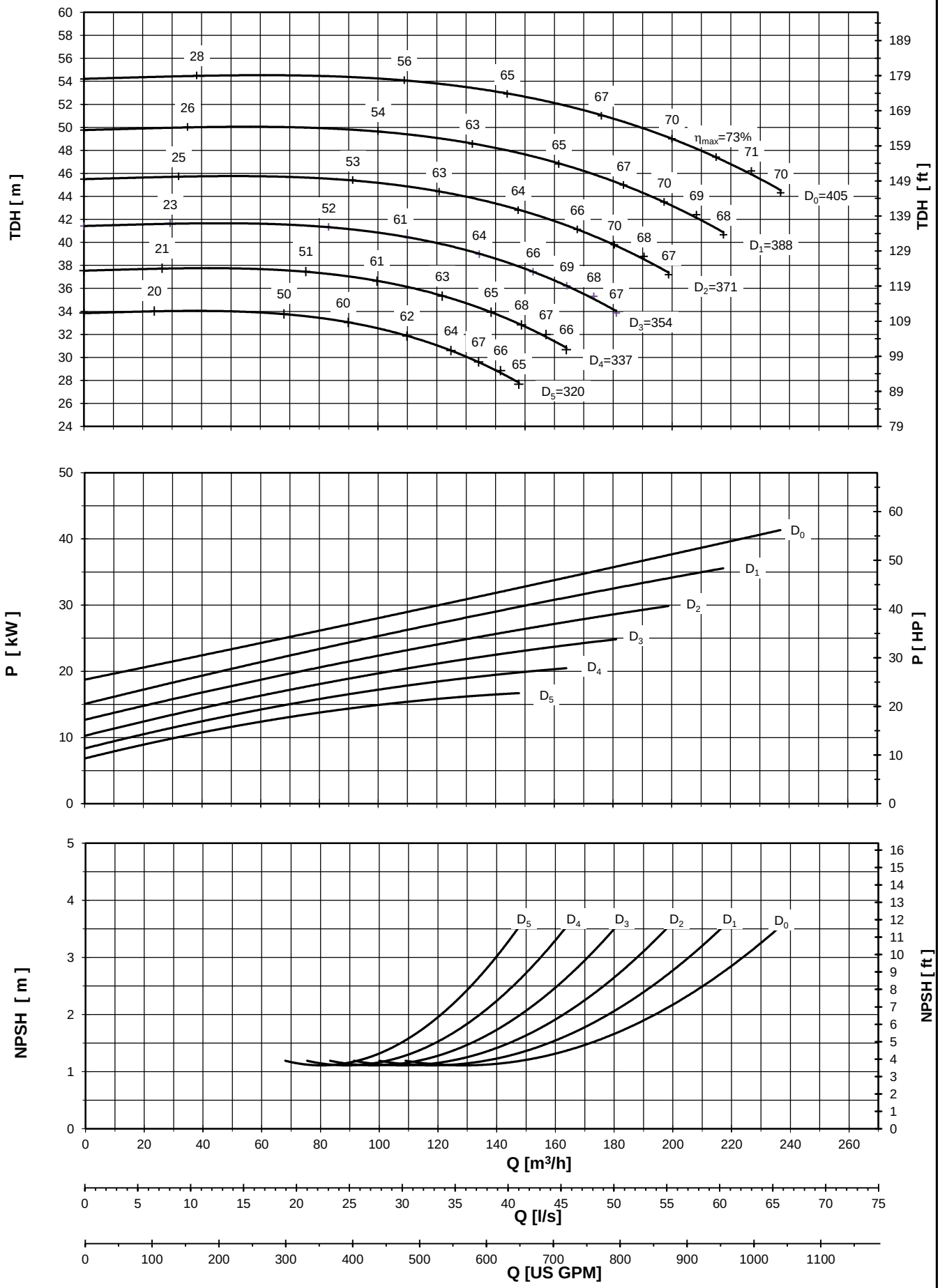
Performance curves are valid for clean cold water-kinematic viscosity 1 [mm^2/s], density 1000 [kg/m^3]. Methods and tolerances of presented performance curves are in accordance with ISO 9906 - Annex A

MZT PUMPI	PUMP PERFORMANCE CURVES No. 4HD.0170.03	PUMP TYPE SCPV 125 - 315 1450 [rpm]



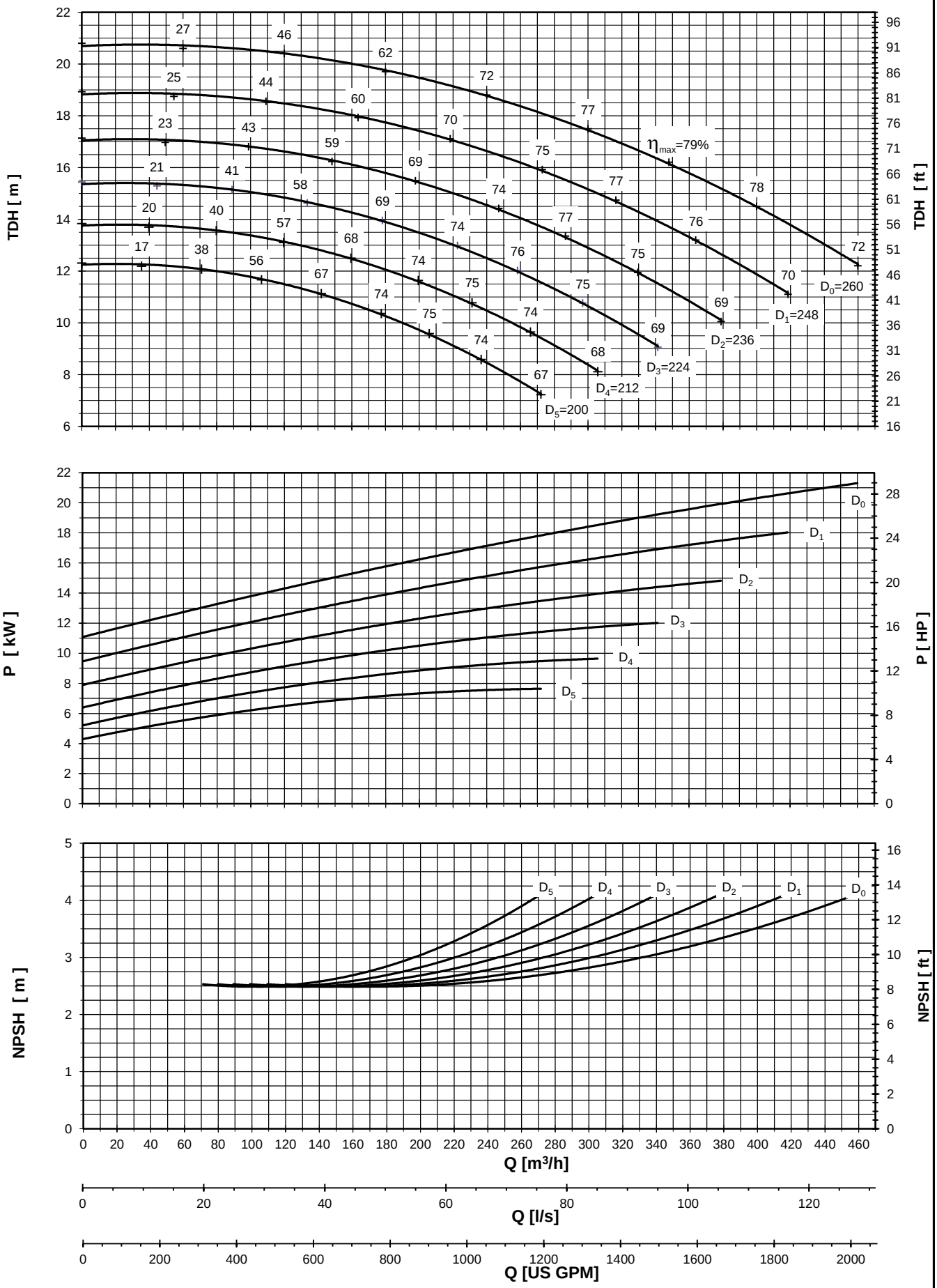
Performance curves are valid for clean cold water-kinematic viscosity 1 [mm^2/s], density 1000 [kg/m^3]. Methods and tolerances of presented performance curves are in accordance with ISO 9906 - Annex A

MZT PUMPI	PUMP PERFORMANCE CURVES No. 4HD.0171.03	PUMP TYPE SCPV 125 - 400 1450 [rpm]



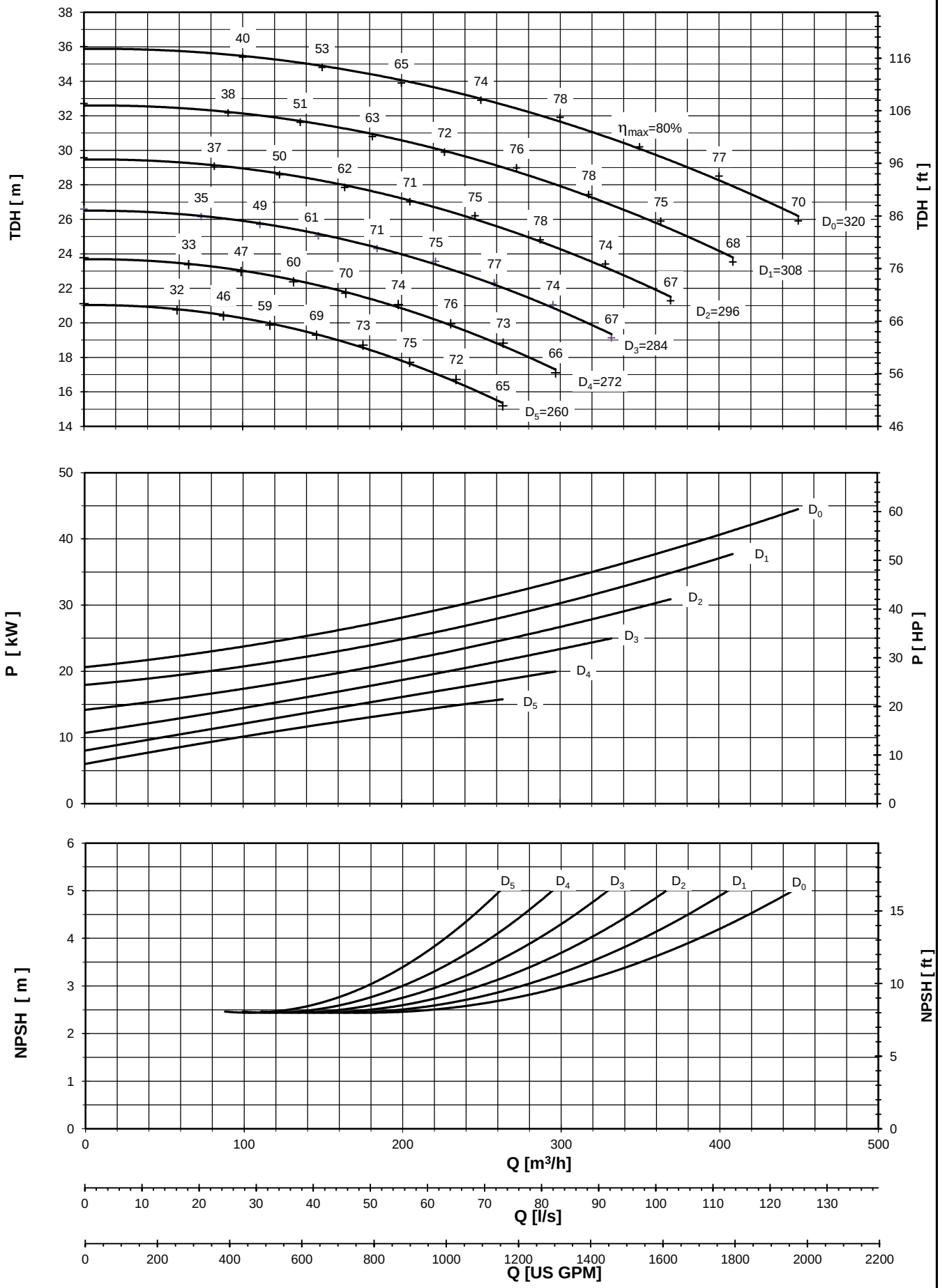
Performance curves are valid for clean cold water-kinematic viscosity 1 [mm^2/s], density 1000 [kg/m^3]. Methods and tolerances of presented performance curves are in accordance with ISO 9906 - Annex A

MZT PUMPI	PUMP PERFORMANCE CURVES No. 4HD.0172.03	PUMP TYPE SCPV 150 - 250 1450 [rpm]



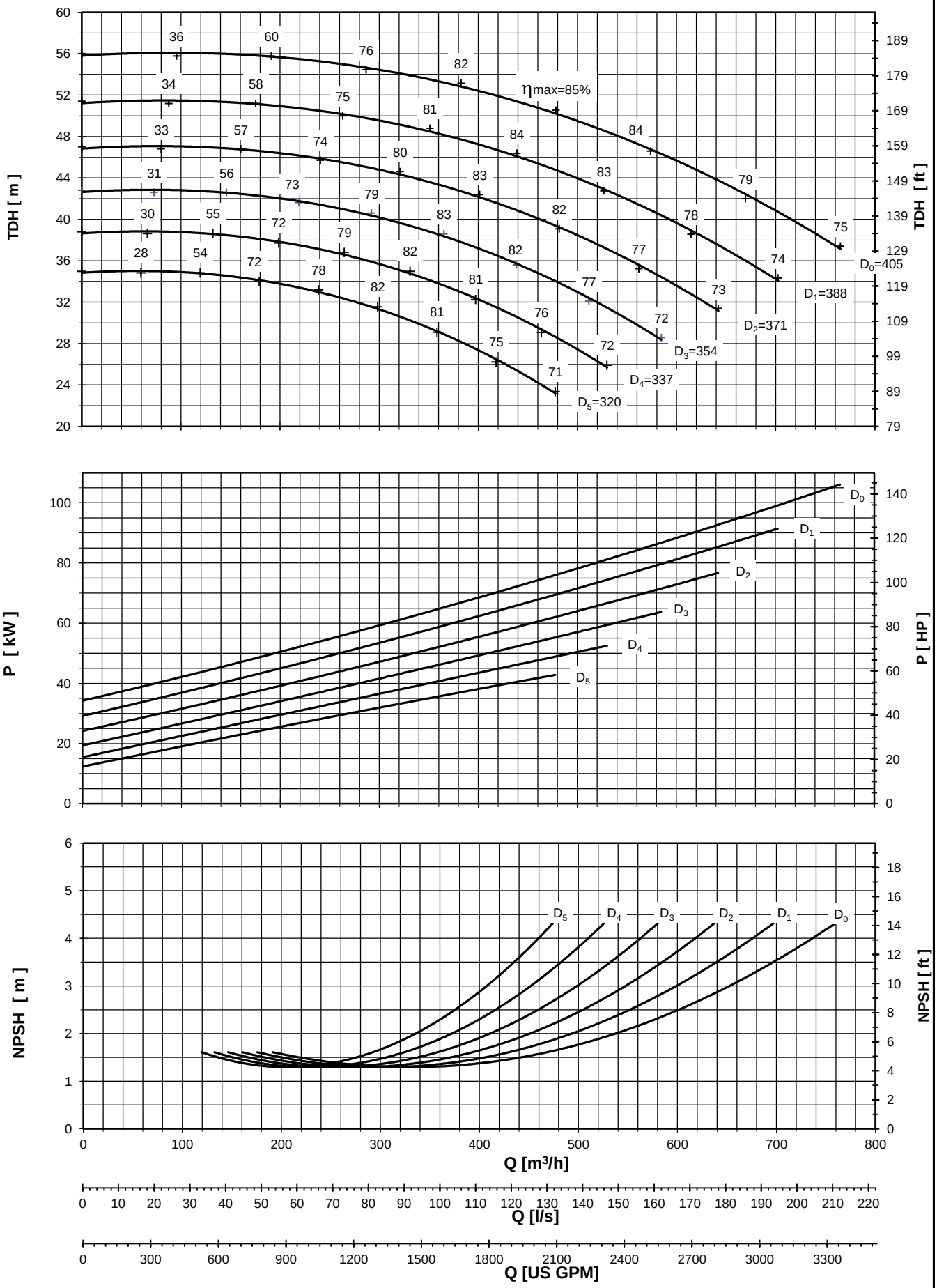
Performance curves are valid for clean cold water-kinematic viscosity 1 [mm^2/s], density 1000 [kg/m^3]. Methods and tolerances of presented performance curves are in accordance with ISO 9906 - Annex A

MZT PUMPI	PUMP PERFORMANCE CURVES No. 4HD.0173.03	PUMP TYPE SCPV 150 - 315 1450 [rpm]



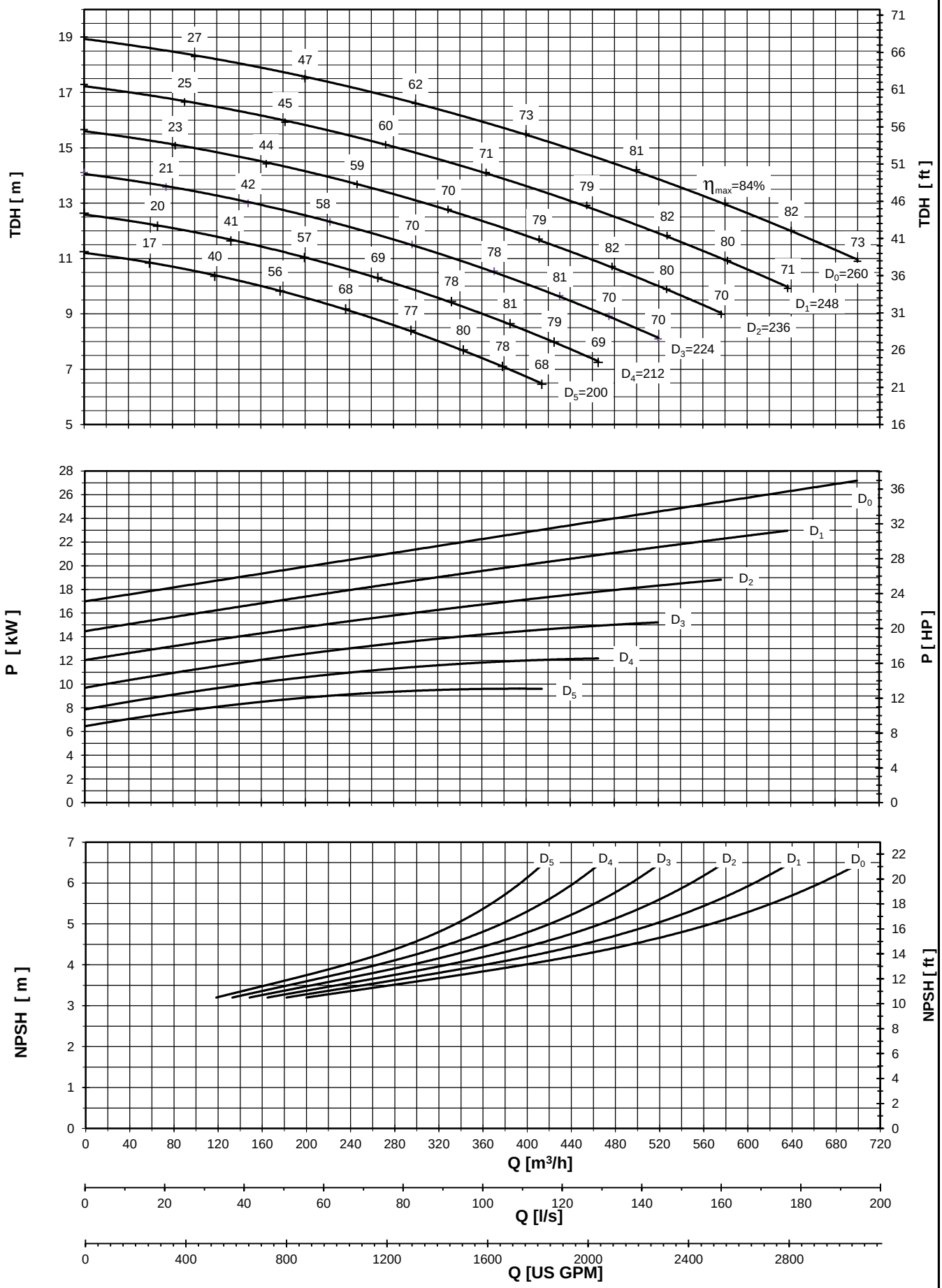
Performance curves are valid for clean cold water-kinematic viscosity 1 [mm^2/s], density 1000 [kg/m^3]. Methods and tolerances of presented performance curves are in accordance with ISO 9906 - Annex A

MZT PUMPI	PUMP PERFORMANCE CURVES No. 4HD.0147.03.R01	PUMP TYPE SCPV 150 - 400 1450 [rpm]



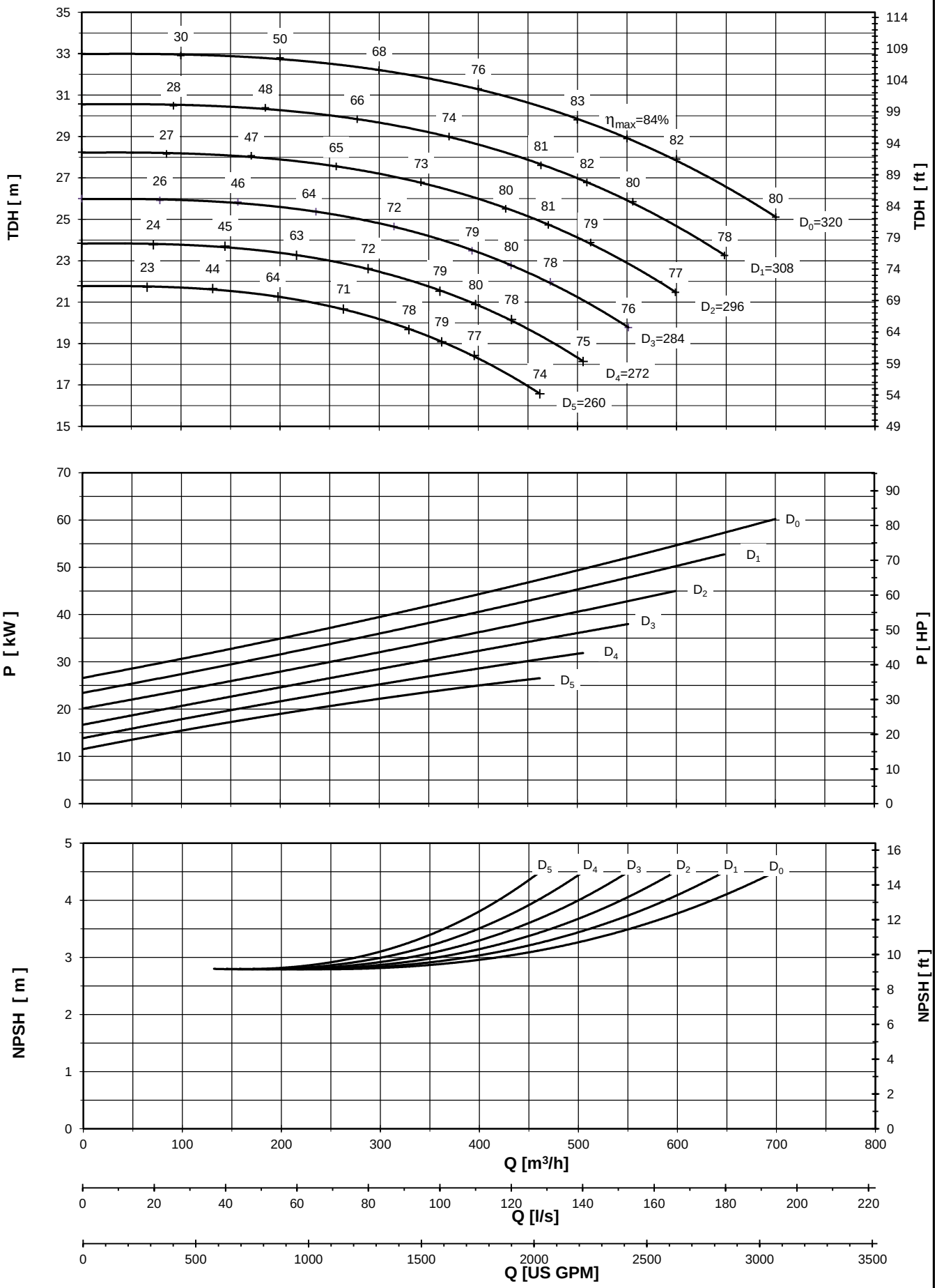
Performance curves are valid for clean cold water-kinematic viscosity 1 [mm^2/s], density 1000 [kg/m^3]. Methods and tolerances of presented performance curves are in accordance with ISO 9906 - Annex A

MZT PUMPI	PUMP PERFORMANCE CURVES No. 4HD.0145.03	PUMP TYPE SCPV 200 - 250 1450 [rpm]



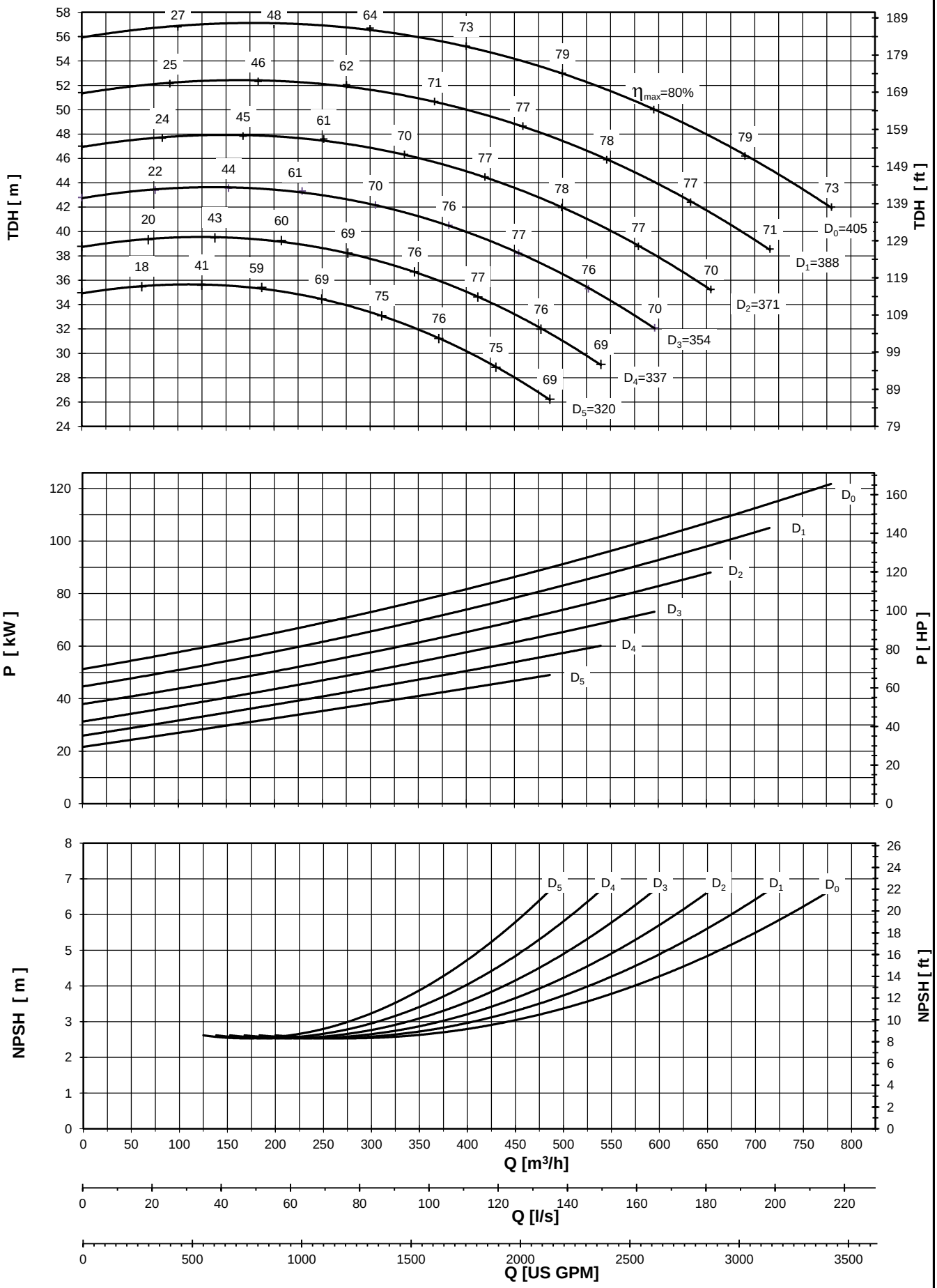
Performance curves are valid for clean cold water-kinematic viscosity 1 [mm^2/s], density 1000 [kg/m^3]. Methods and tolerances of presented performance curves are in accordance with ISO 9906 - Annex A

MZT PUMPI	PUMP PERFORMANCE CURVES No. 4HD.0176.03	PUMP TYPE SCPV 200 - 315 1450 [rpm]



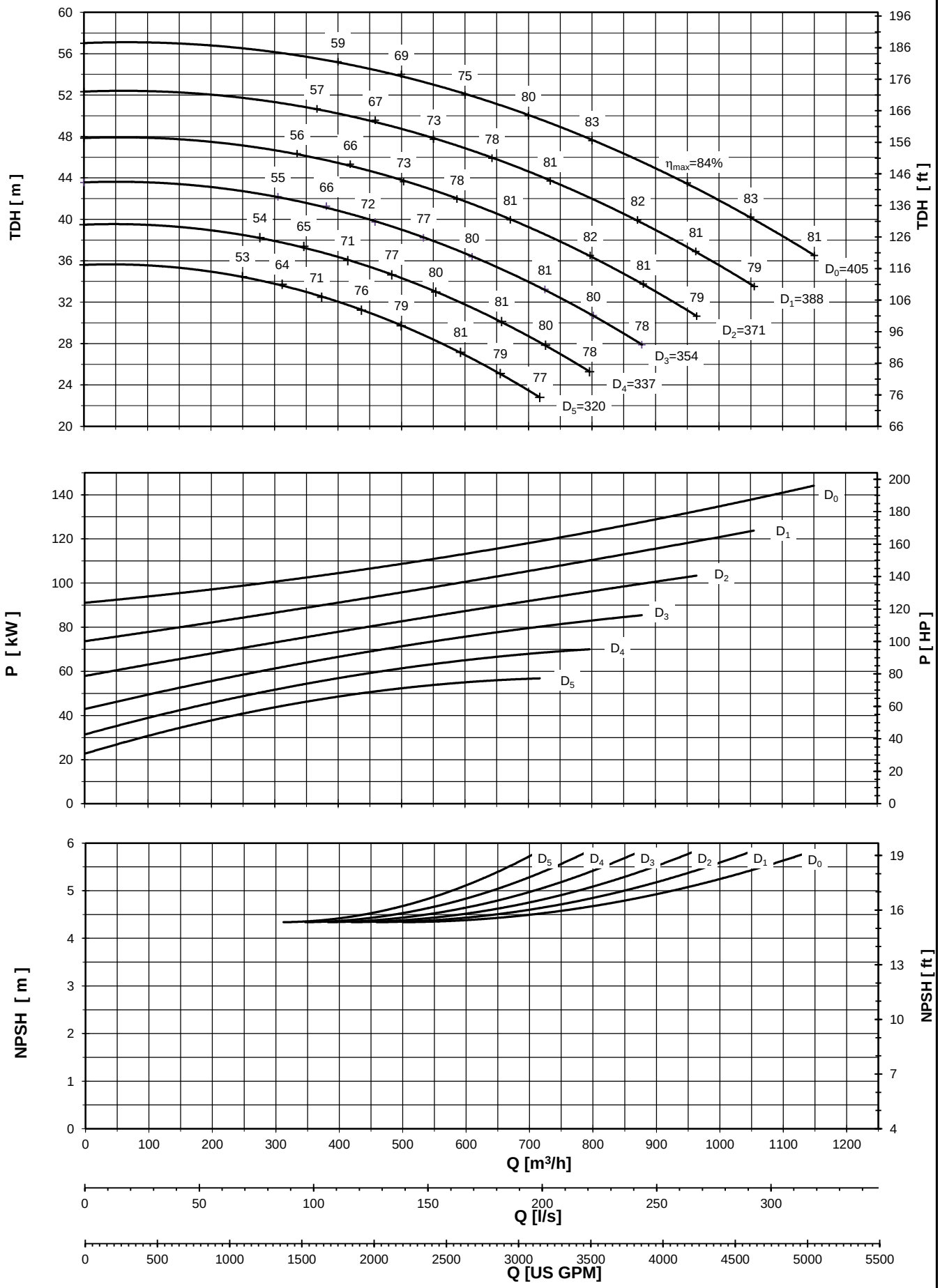
Performance curves are valid for clean cold water-kinematic viscosity 1 [mm^2/s], density 1000 [kg/m^3]. Methods and tolerances of presented performance curves are in accordance with ISO 9906 - Annex A

MZT PUMPI	PUMP PERFORMANCE CURVES No. 4HD.0177.03	PUMP TYPE SCPV 200 - 400 1450 [rpm]



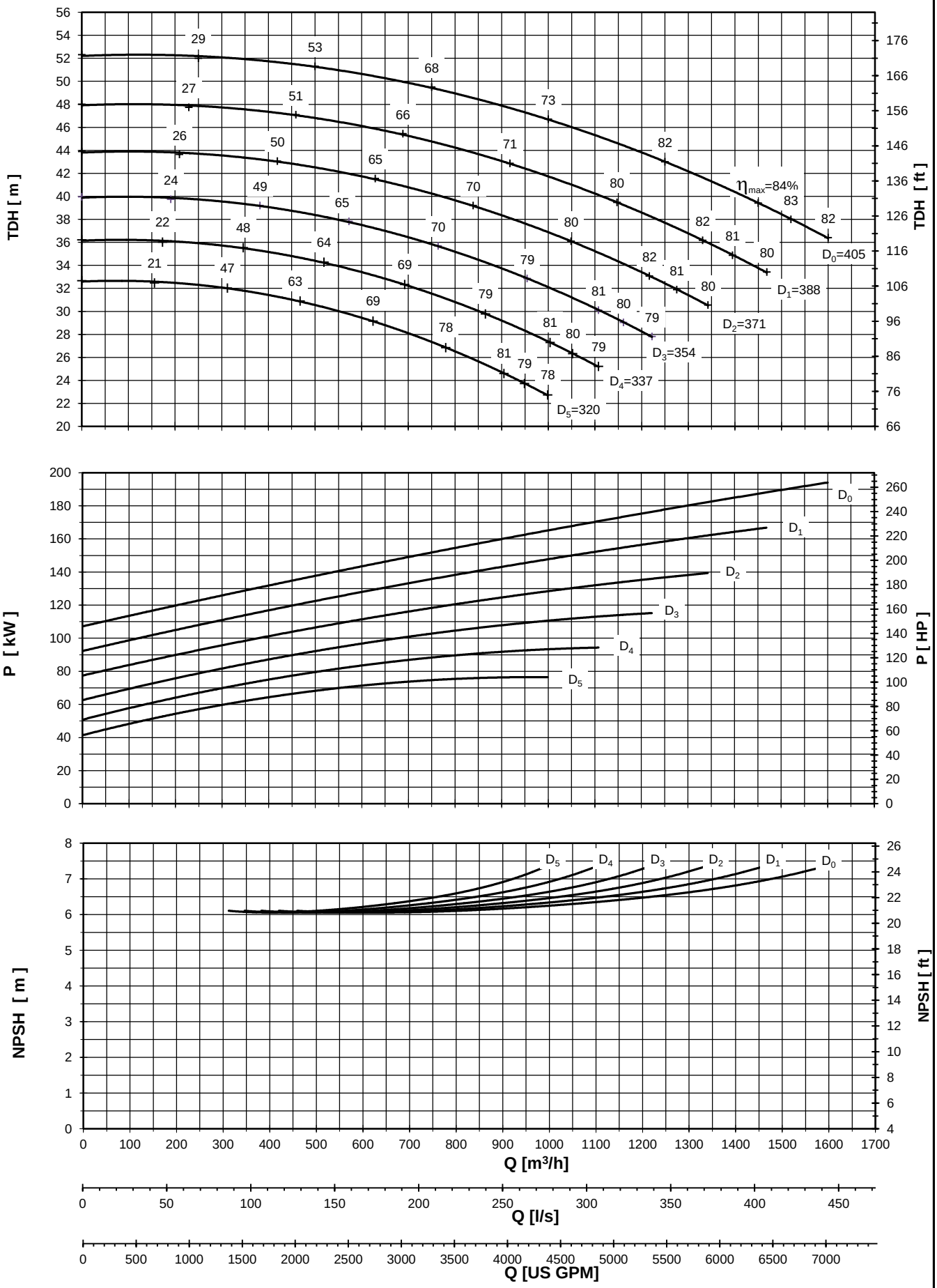
Performance curves are valid for clean cold water-kinematic viscosity 1 [mm^2/s], density 1000 [kg/m^3]. Methods and tolerances of presented performance curves are in accordance with ISO 9906 - Annex A

MZT PUMPI	PUMP PERFORMANCE CURVES No. 4HD.0179.03	PUMP TYPE SCPV 250 - 400 1450 [rpm]



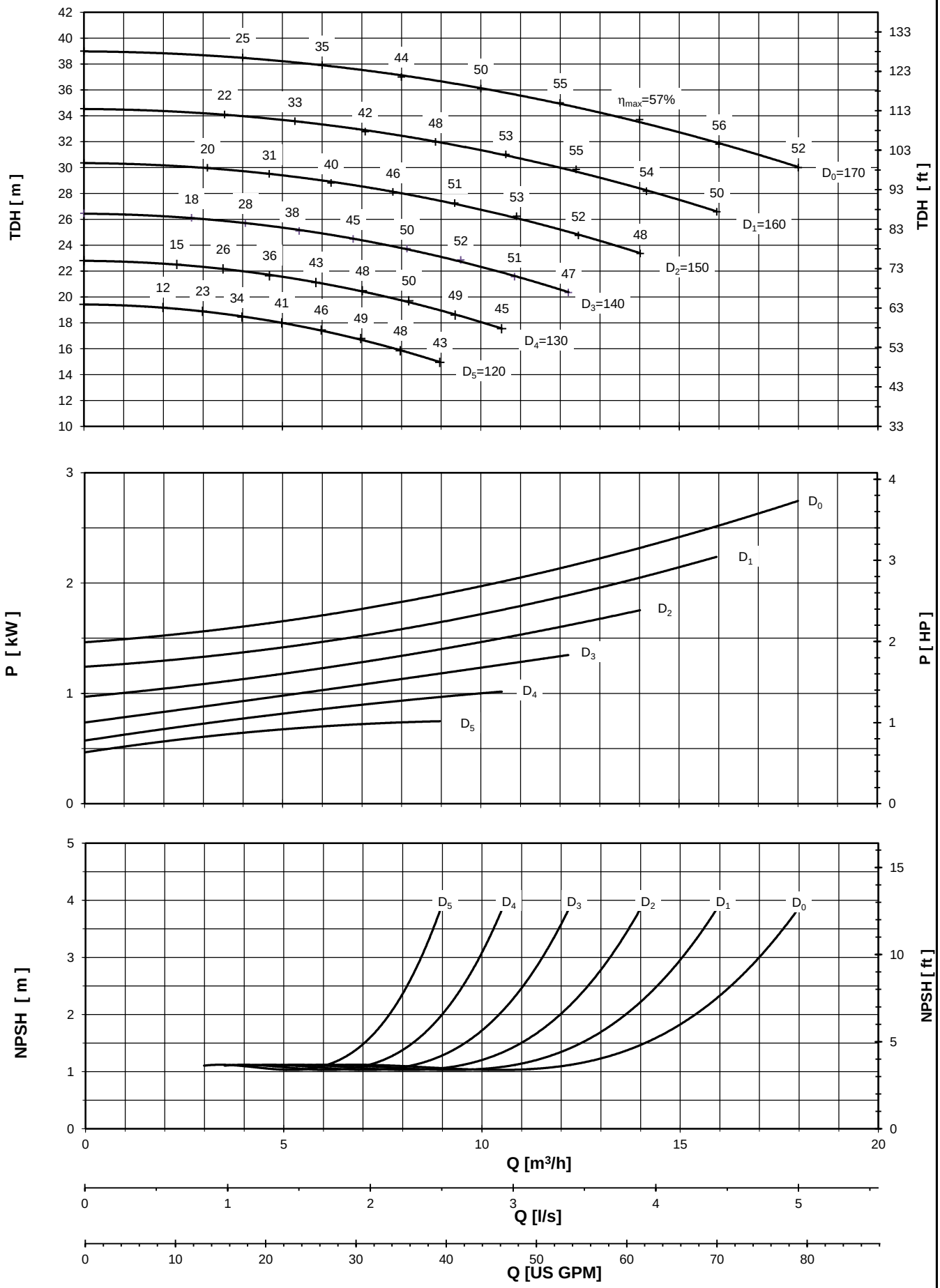
Performance curves are valid for clean cold water-kinematic viscosity 1 [mm^2/s], density 1000 [kg/m^3]. Methods and tolerances of presented performance curves are in accordance with ISO 9906 - Annex A

MZT PUMPI	PUMP PERFORMANCE CURVES No. 4HD.0185.03	PUMP TYPE SCPV 300 - 400 1450 [rpm]



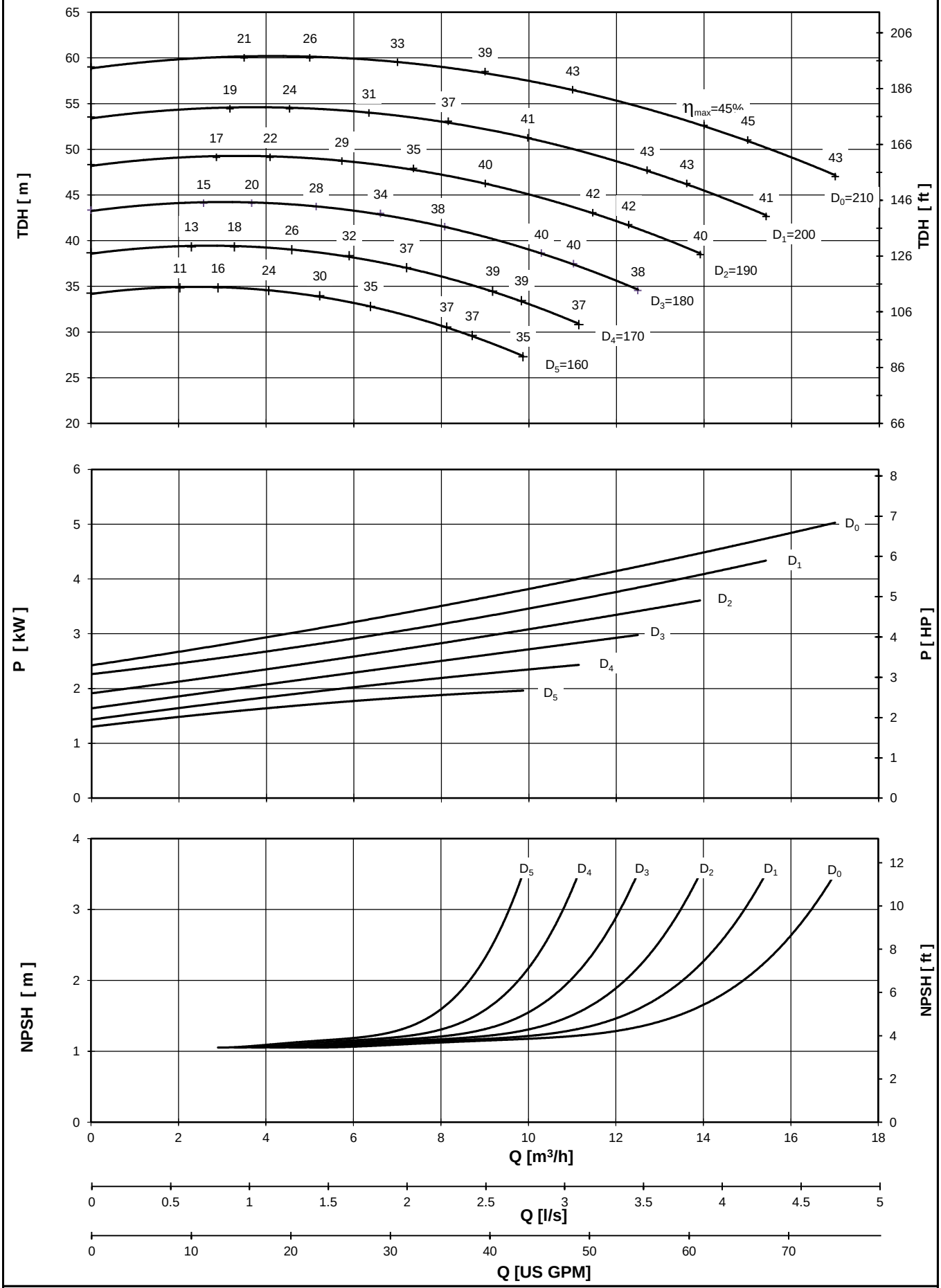
Performance curves are valid for clean cold water-kinematic viscosity 1 [mm^2/s], density 1000 [kg/m^3]. Methods and tolerances of presented performance curves are in accordance with ISO 9906 - Annex A

MZT PUMPI	PUMP PERFORMANCE CURVES No. 4HD.0142.05	PUMP TYPE SCPV 32 - 160 2900 [rpm]



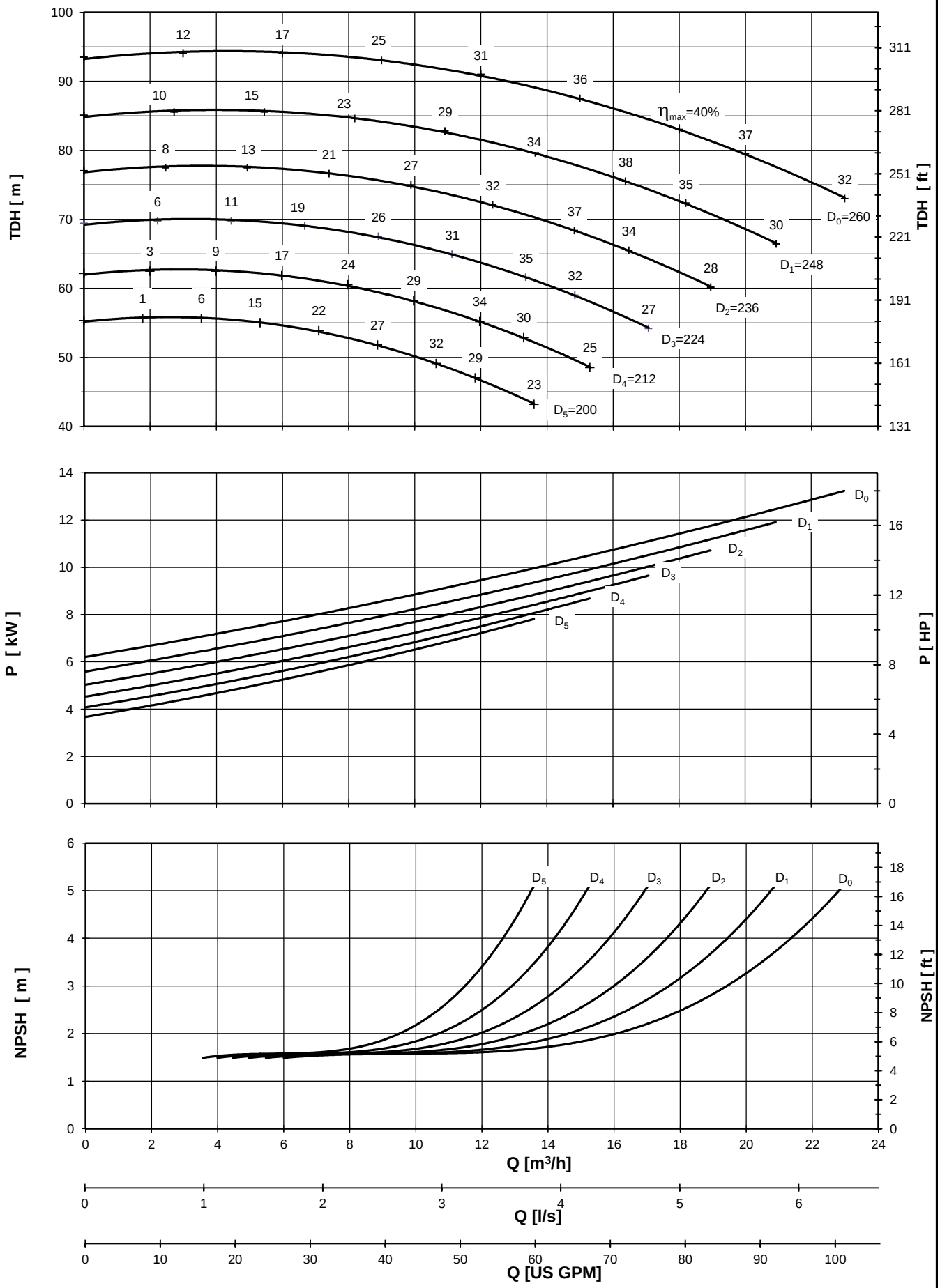
Performance curves are valid for clean cold water-kinematic viscosity 1 [mm^2/s], density 1000 [kg/m^3]. Methods and tolerances of presented performance curves are in accordance with ISO 9906 - Annex A

MZT PUMPI	PUMP PERFORMANCE CURVES No. 4HD.0143.05	PUMP TYPE SCPV 32 - 200 2900 [rpm]



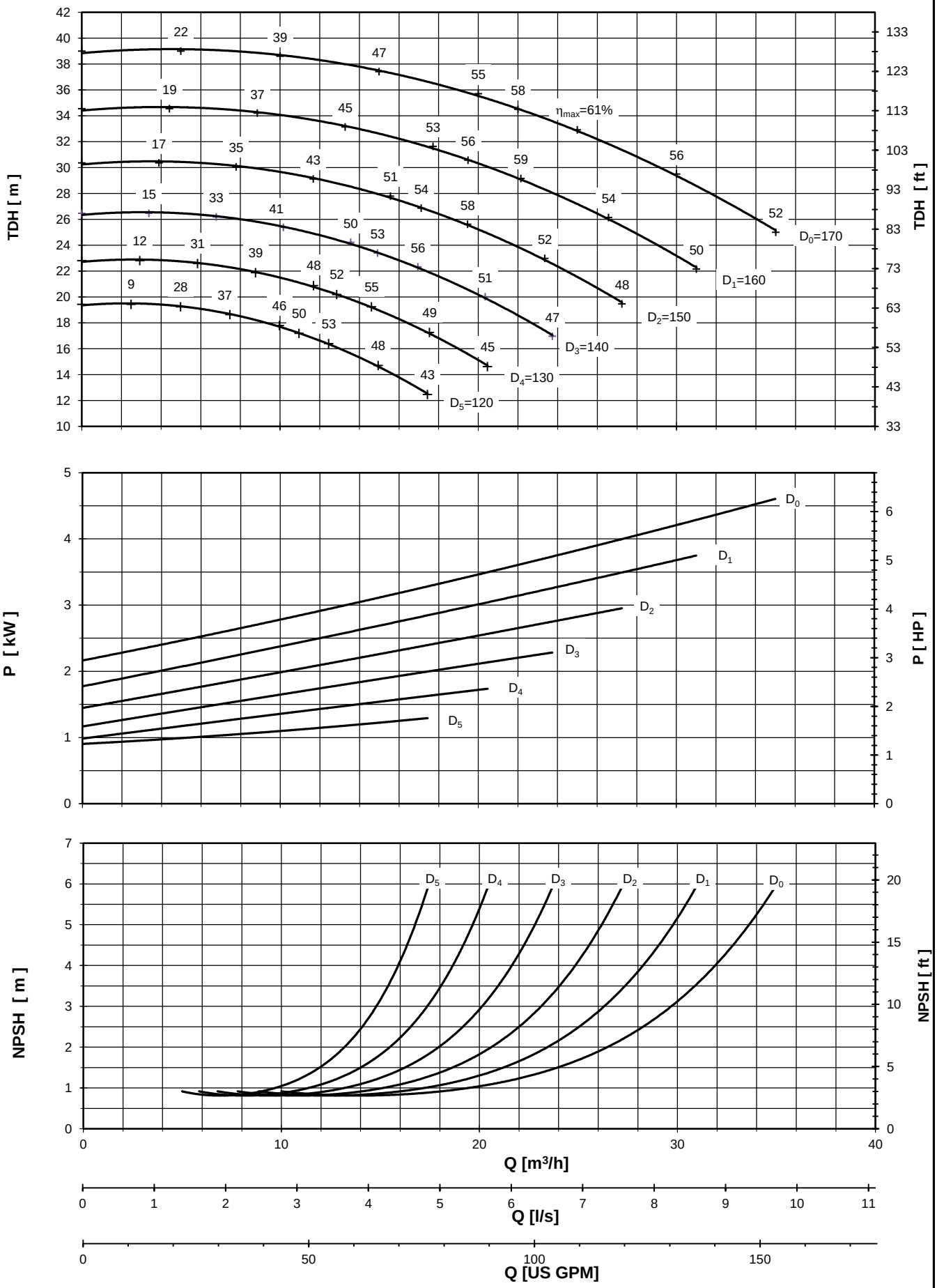
Performance curves are valid for clean cold water-kinematic viscosity 1 [mm2/s], density 1000 [kg/m3]. Methods and tolerances of presented performance curves are in accordance with ISO 9906 - Annex A

MZT PUMPI	PUMP PERFORMANCE CURVES No. 4HS.0144.05	PUMP TYPE SCPV 32 - 250 2900 [rpm]



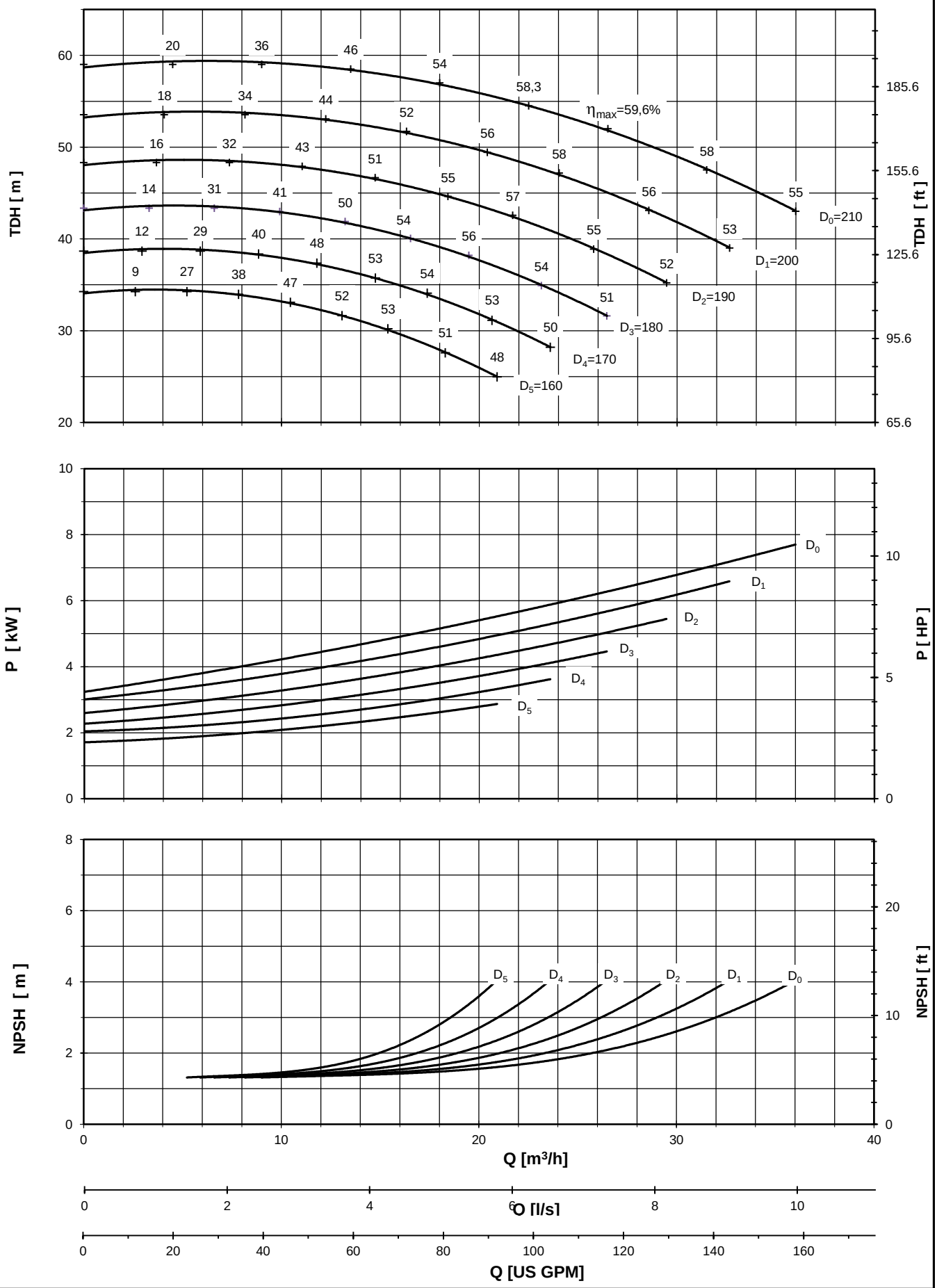
Performance curves are valid for clean cold water-kinematic viscosity 1 [mm^2/s], density 1000 [kg/m^3]. Methods and tolerances of presented performance curves are in accordance with ISO 9906 - Annex A

MZT PUMPI	PUMP PERFORMANCE CURVES No. 4HD.0146.05	PUMP TYPE SCPV 40 - 160 2900 [rpm]



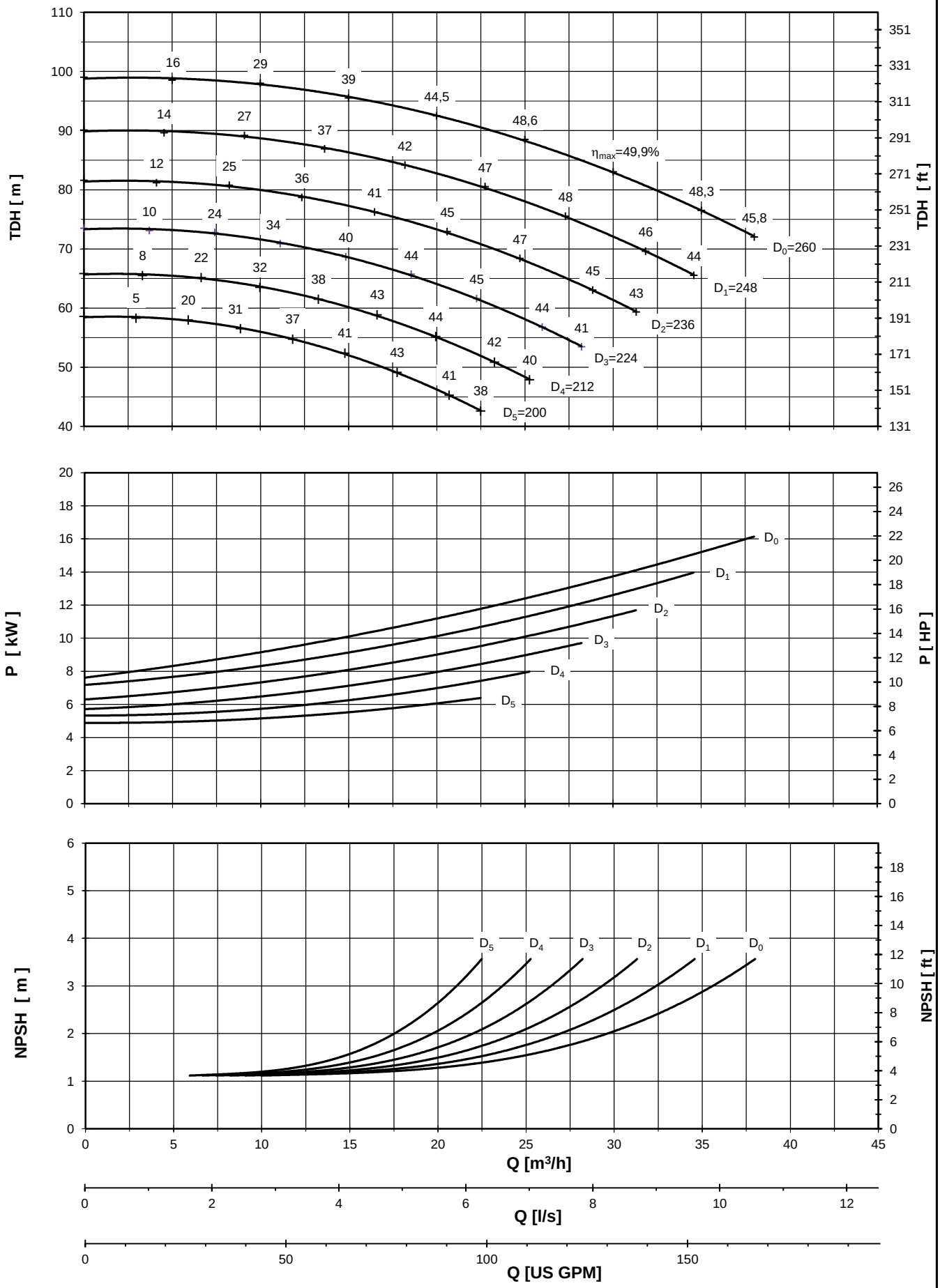
Performance curves are valid for clean cold water-kinematic viscosity 1 [mm^2/s], density 1000 [kg/m^3]. Methods and tolerances of presented performance curves are in accordance with ISO 9906 - Annex A

MZT PUMPI	PUMP PERFORMANCE CURVES No. 4HD.0147.05	PUMP TYPE SCPV 40 - 200 2900 [rpm]



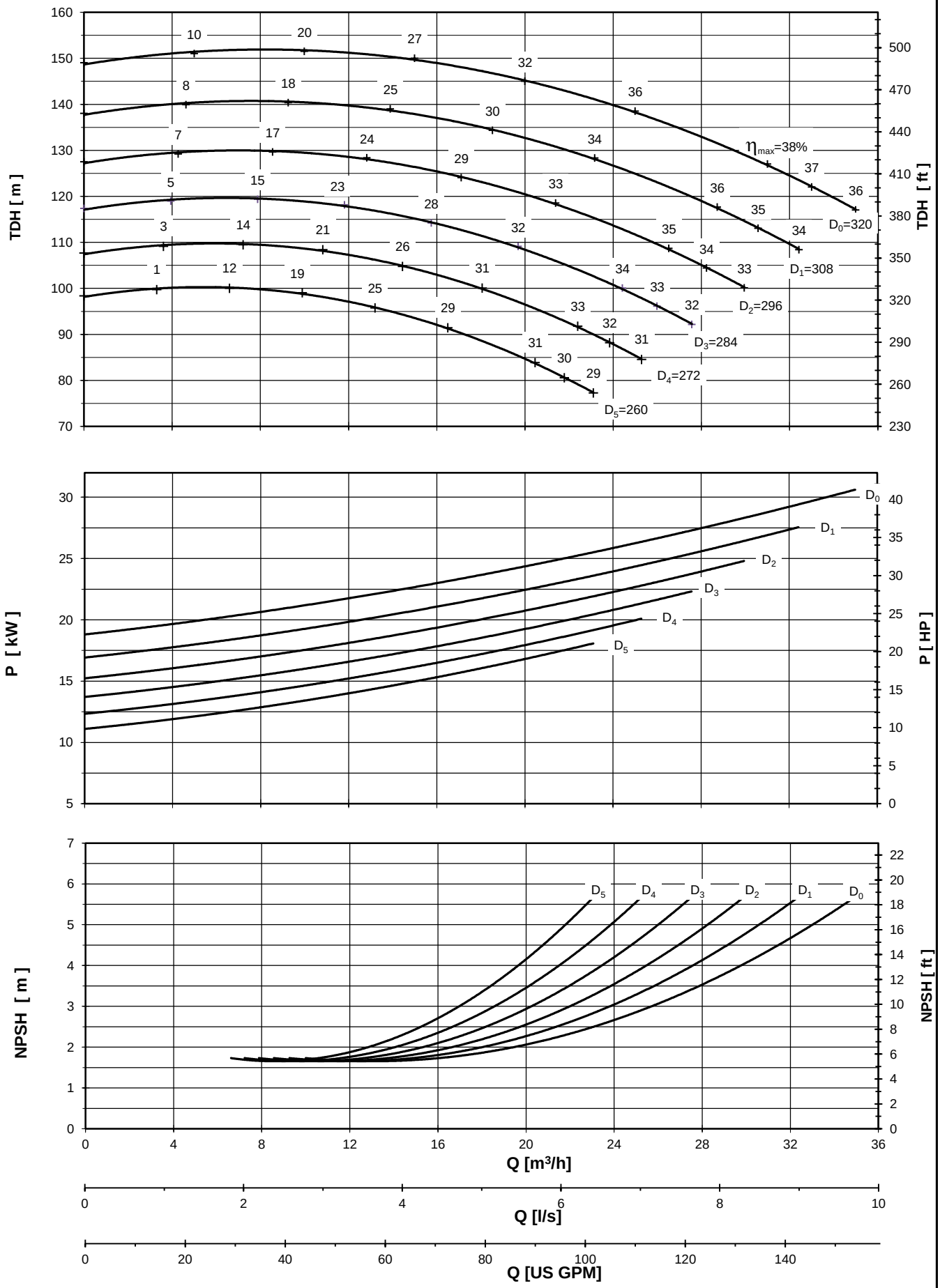
Performance curves are valid for clean cold water-kinematic viscosity 1 [mm2/s], density 1000 [kg/m3]. Methods and tolerances of presented performance curves are in accordance with ISO 9906 - Annex A

MZT PUMPI	PUMP PERFORMANCE CURVES No. 4HD.0148.05	PUMP TYPE SCPV 40 - 250 2900 [rpm]



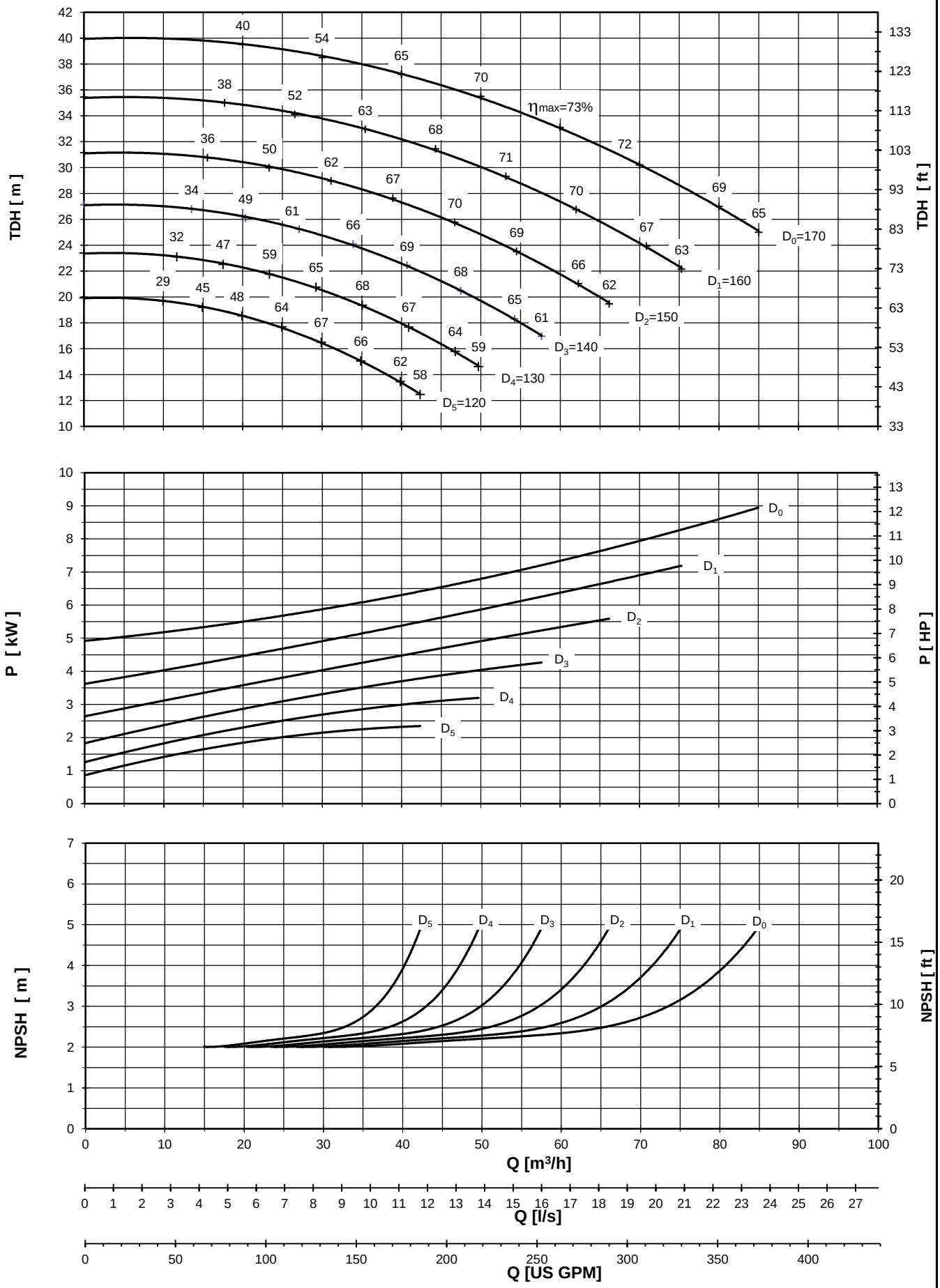
Performance curves are valid for clean cold water-kinematic viscosity 1 [mm^2/s], density 1000 [kg/m^3]. Methods and tolerances of presented performance curves are in accordance with ISO 9906 - Annex A

MZT PUMPI	PUMP PERFORMANCE CURVES No. 4HD.0149.05	PUMP TYPE SCPV 40 - 315 2900 [rpm]



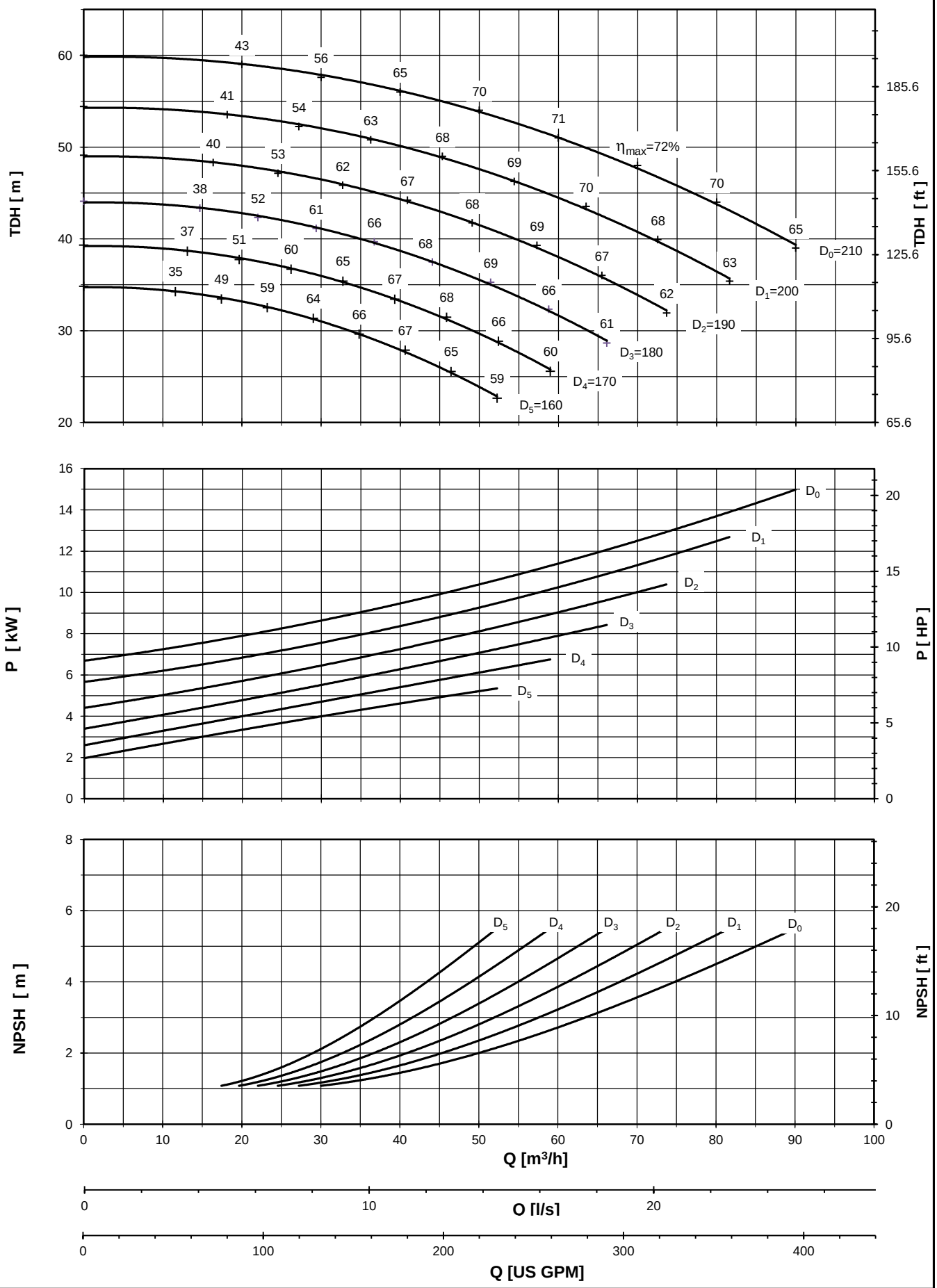
Performance curves are valid for clean cold water-kinematic viscosity 1 [mm^2/s], density 1000 [kg/m^3]. Methods and tolerances of presented performance curves are in accordance with ISO 9906 - Annex A

MZT PUMPI	PUMP PERFORMANCE CURVES No. 4HD.0181.05	PUMP TYPE SCPV 50 - 160 2900 [rpm]



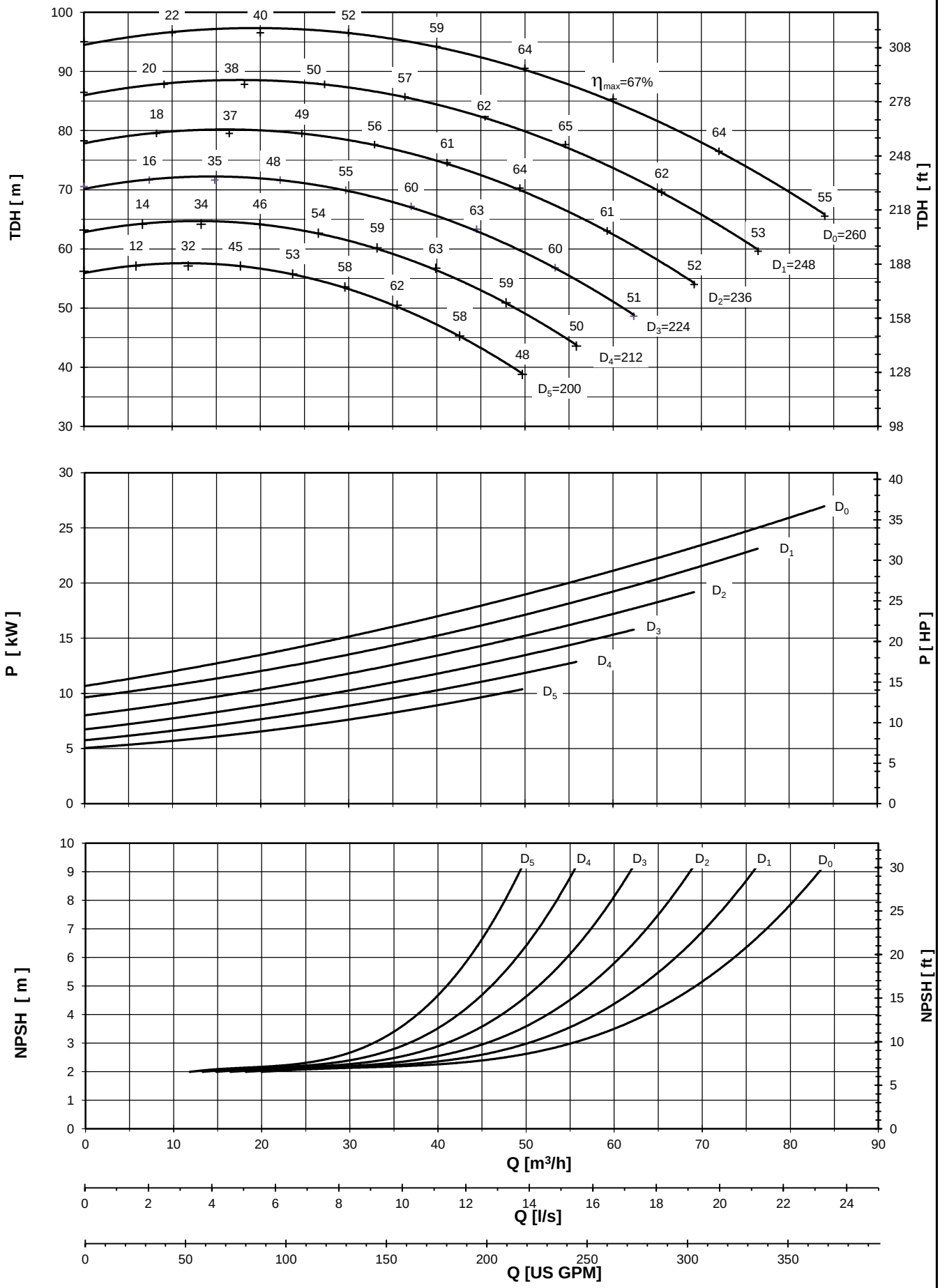
Performance curves are valid for clean cold water-kinematic viscosity 1 [mm^2/s], density 1000 [kg/m^3]. Methods and tolerances of presented performance curves are in accordance with ISO 9906 - Annex A

MZT PUMPI	PUMP PERFORMANCE CURVES No. 4HD.0152.05	PUMP TYPE SCPV 50 - 200 2900 [rpm]



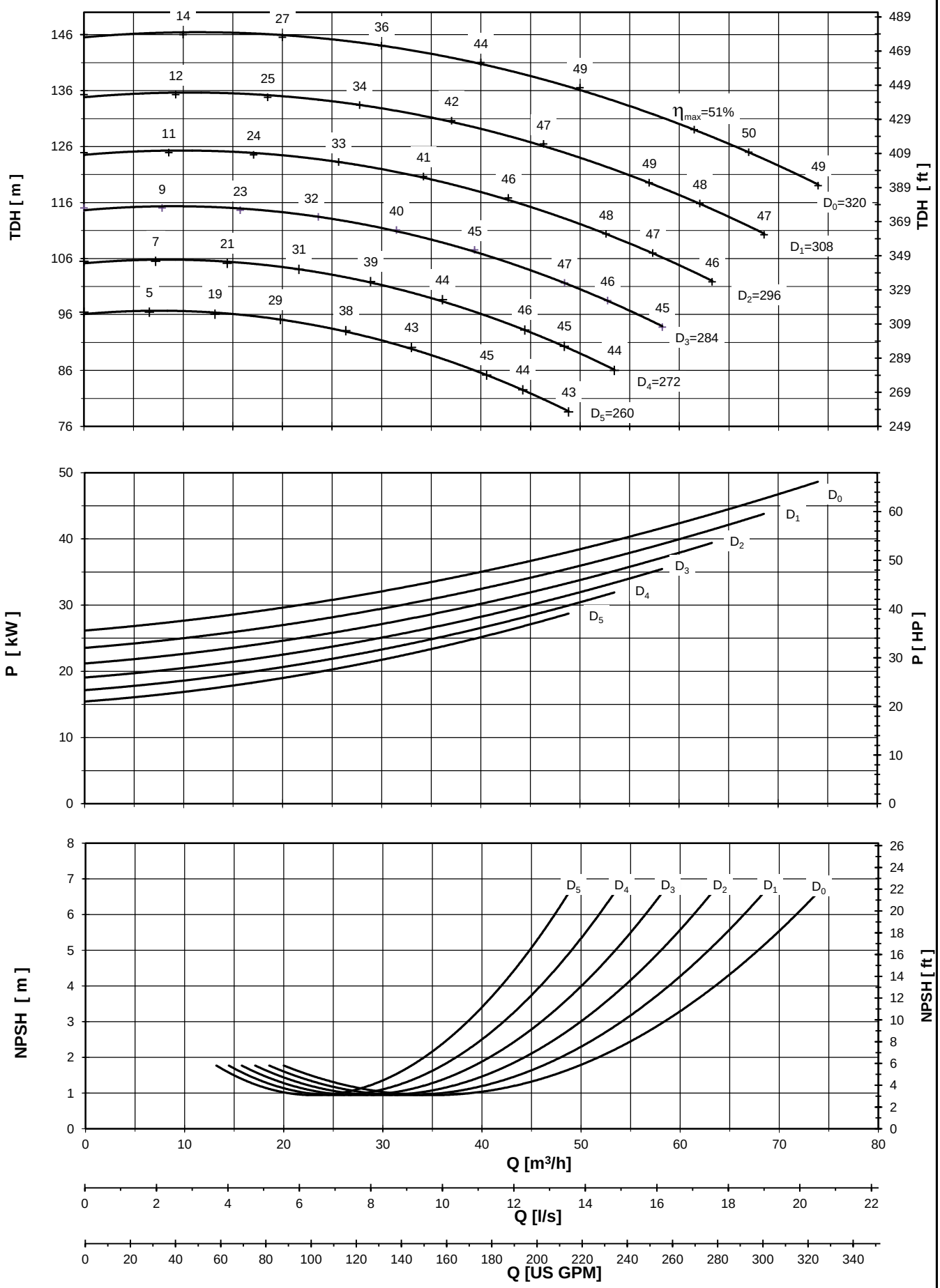
Performance curves are valid for clean cold water-kinematic viscosity 1 [mm2/s], density 1000 [kg/m3]. Methods and tolerances of presented performance curves are in accordance with ISO 9906 - Annex A

MZT PUMPI	PUMP PERFORMANCE CURVES No. 4HS.0153.05	PUMP TYPE SCPV 50 - 250 2900 [rpm]



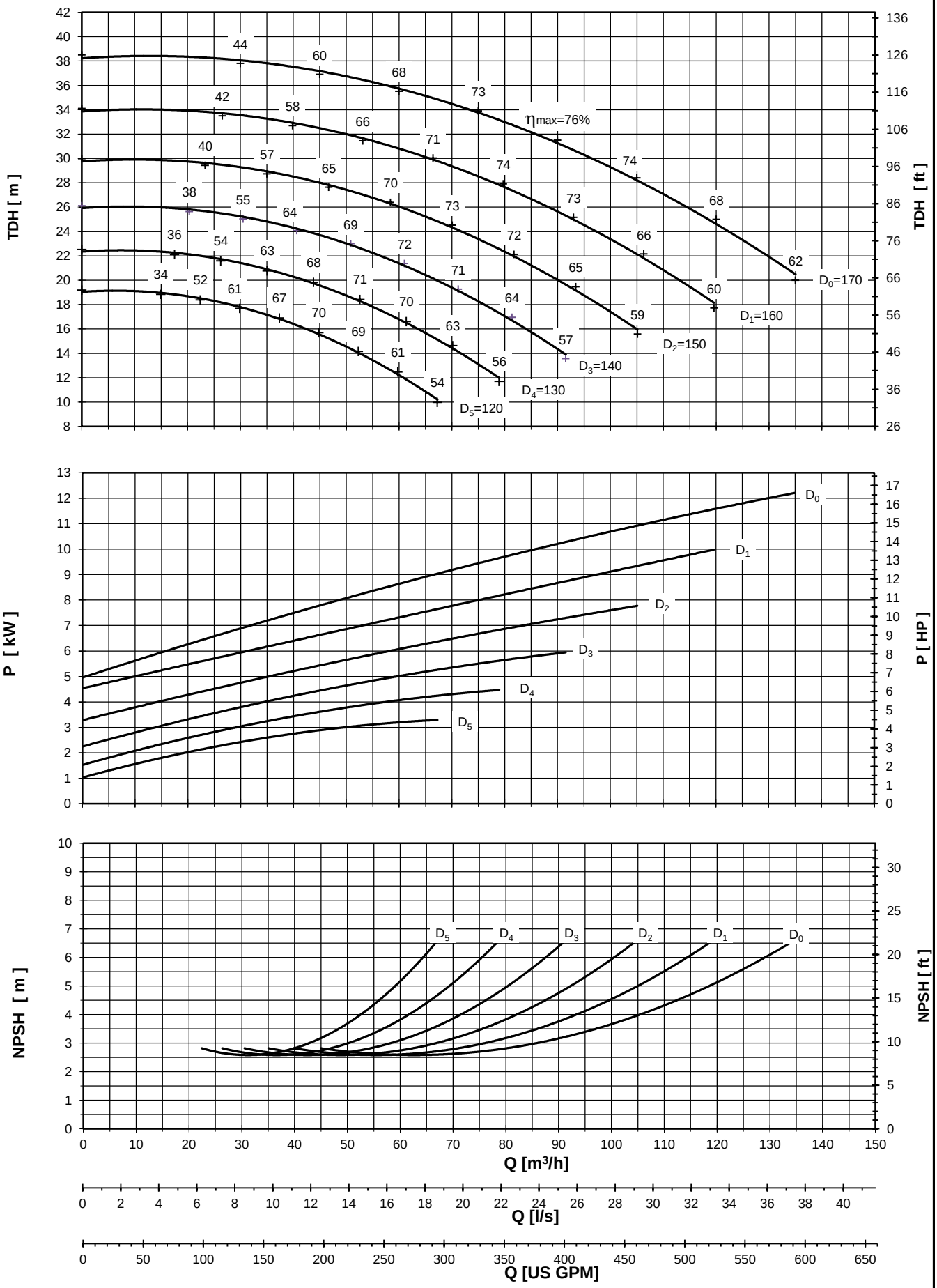
Performance curves are valid for clean cold water-kinematic viscosity 1 [mm^2/s], density 1000 [kg/m^3]. Methods and tolerances of presented performance curves are in accordance with ISO 9906 - Annex A

MZT PUMPI	PUMP PERFORMANCE CURVES No. 4HD.0154.05	PUMP TYPE SCPV 50 - 315 2900 [rpm]



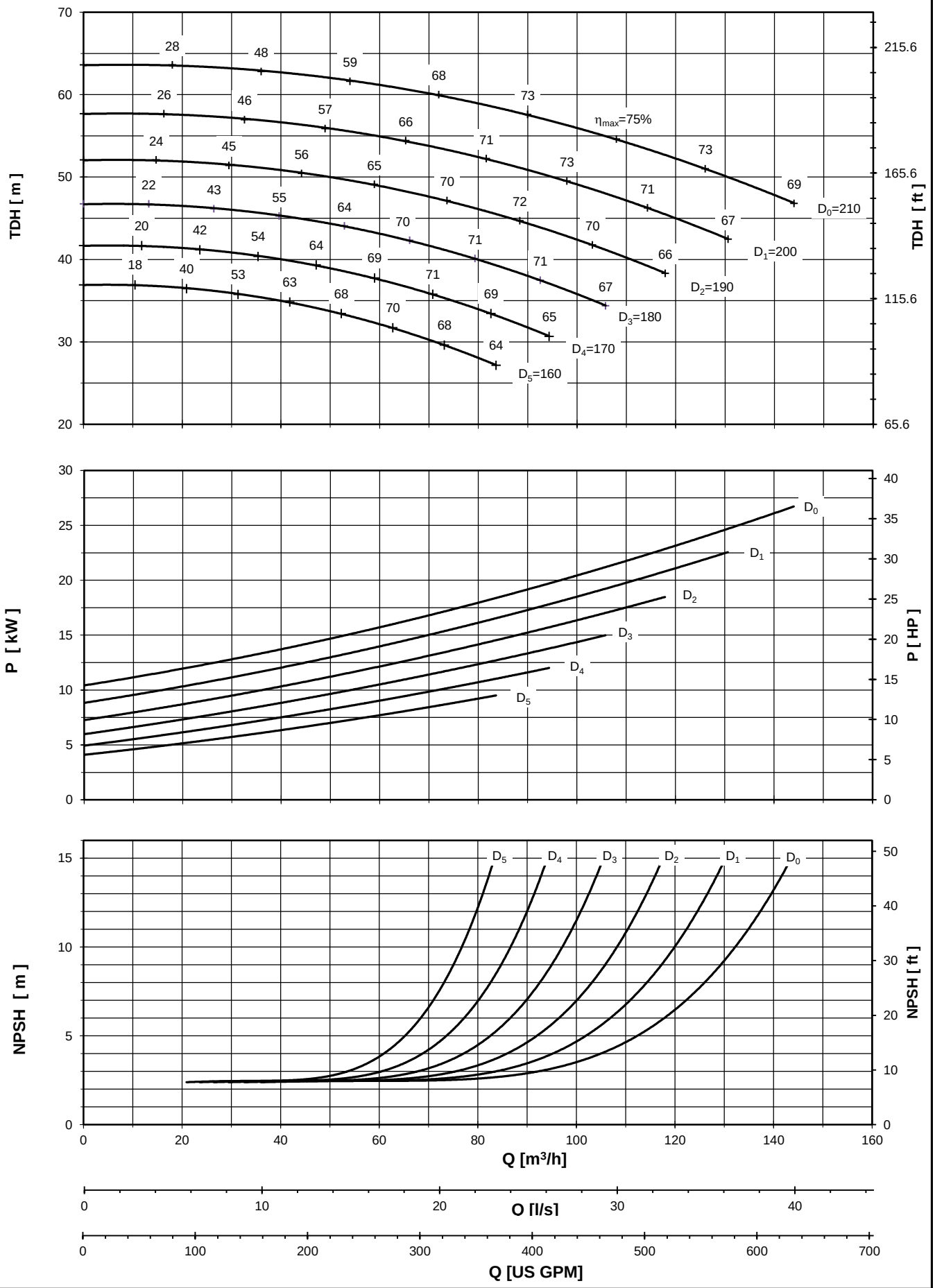
Performance curves are valid for clean cold water-kinematic viscosity 1 [mm^2/s], density 1000 [kg/m^3]. Methods and tolerances of presented performance curves are in accordance with ISO 9906 - Annex A

MZT PUMPI	PUMP PERFORMANCE CURVES No. 4HD.0151.05	PUMP TYPE SCPV 65 - 160 2900 [rpm]



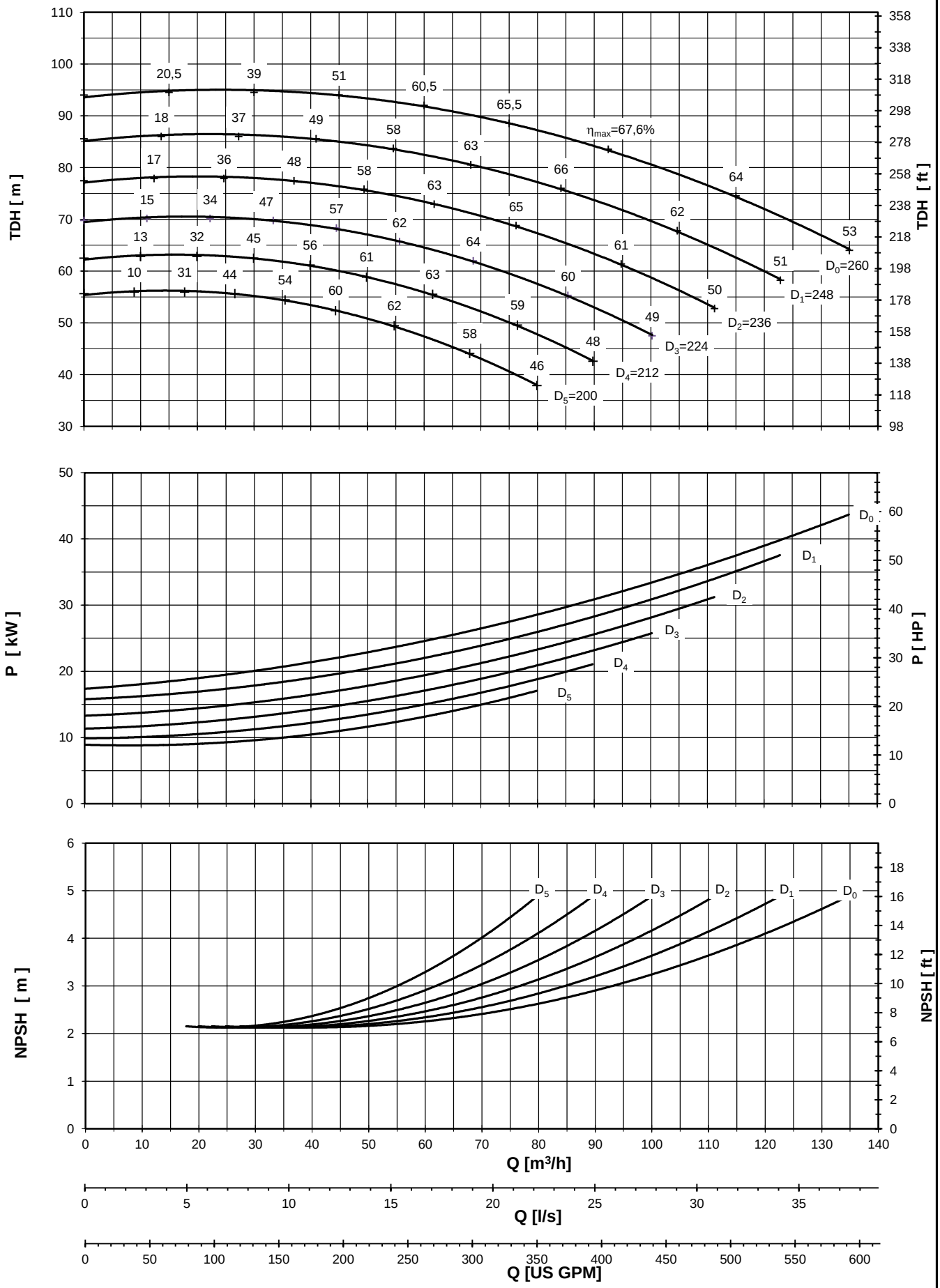
Performance curves are valid for clean cold water-kinematic viscosity 1 [mm^2/s], density 1000 [kg/m^3]. Methods and tolerances of presented performance curves are in accordance with ISO 9906 - Annex A

MZT PUMPI	PUMP PERFORMANCE CURVES No. 4HD.0157.05	PUMP TYPE SCPV 65 - 200 2900 [rpm]



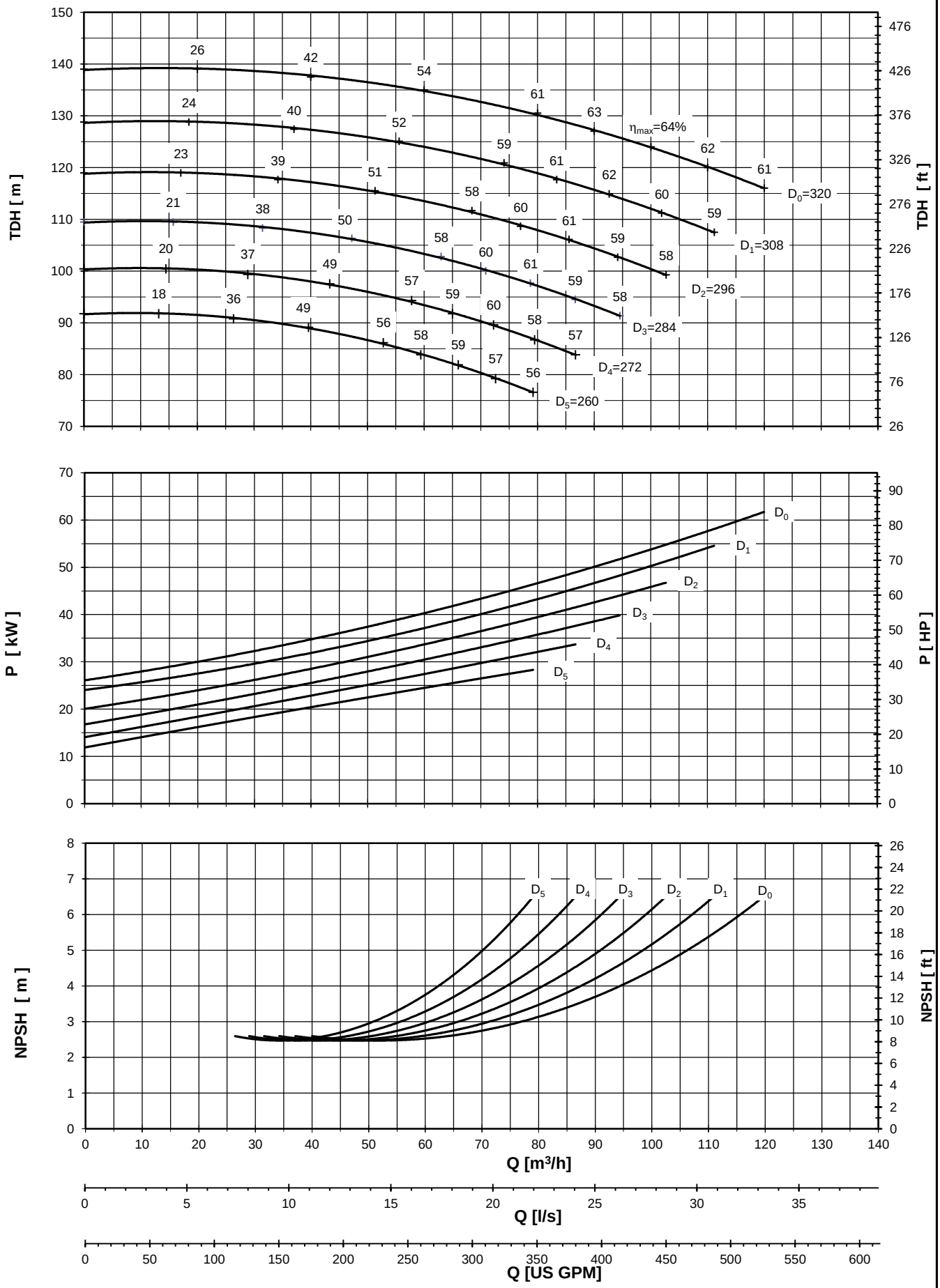
Performance curves are valid for clean cold water-kinematic viscosity 1 [mm2/s], density 1000 [kg/m3]. Methods and tolerances of presented performance curves are in accordance with ISO 9906 - Annex A

MZT PUMPI	PUMP PERFORMANCE CURVES No. 4HD.0158.05	PUMP TYPE SCPV 65 - 250 2900 [rpm]



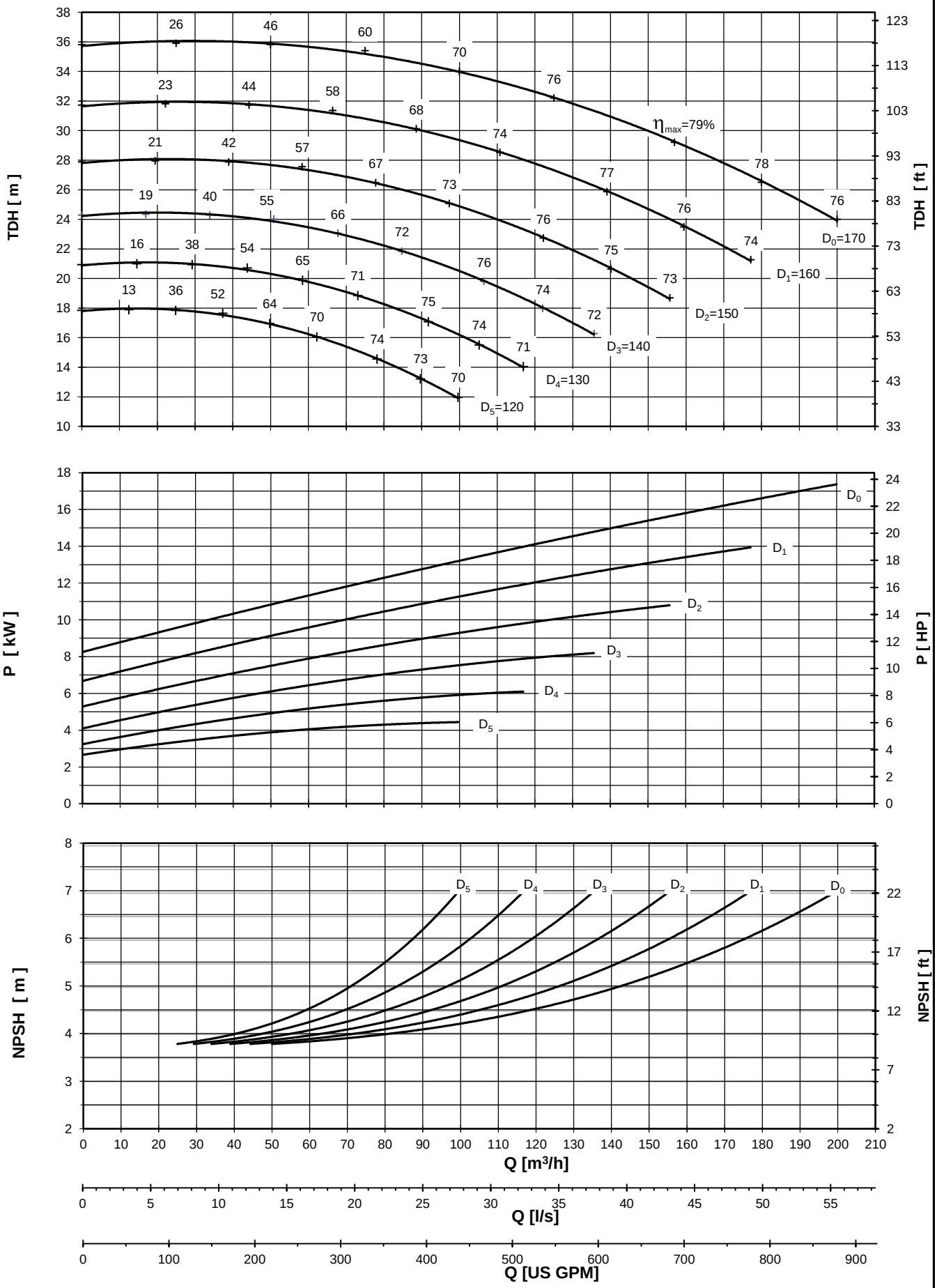
Performance curves are valid for clean cold water-kinematic viscosity 1 [mm^2/s], density 1000 [kg/m^3]. Methods and tolerances of presented performance curves are in accordance with ISO 9906 - Annex A

MZT PUMPI	PUMP PERFORMANCE CURVES No. 4HD.0159.05	PUMP TYPE SCPV 65 - 315 2900 [rpm]



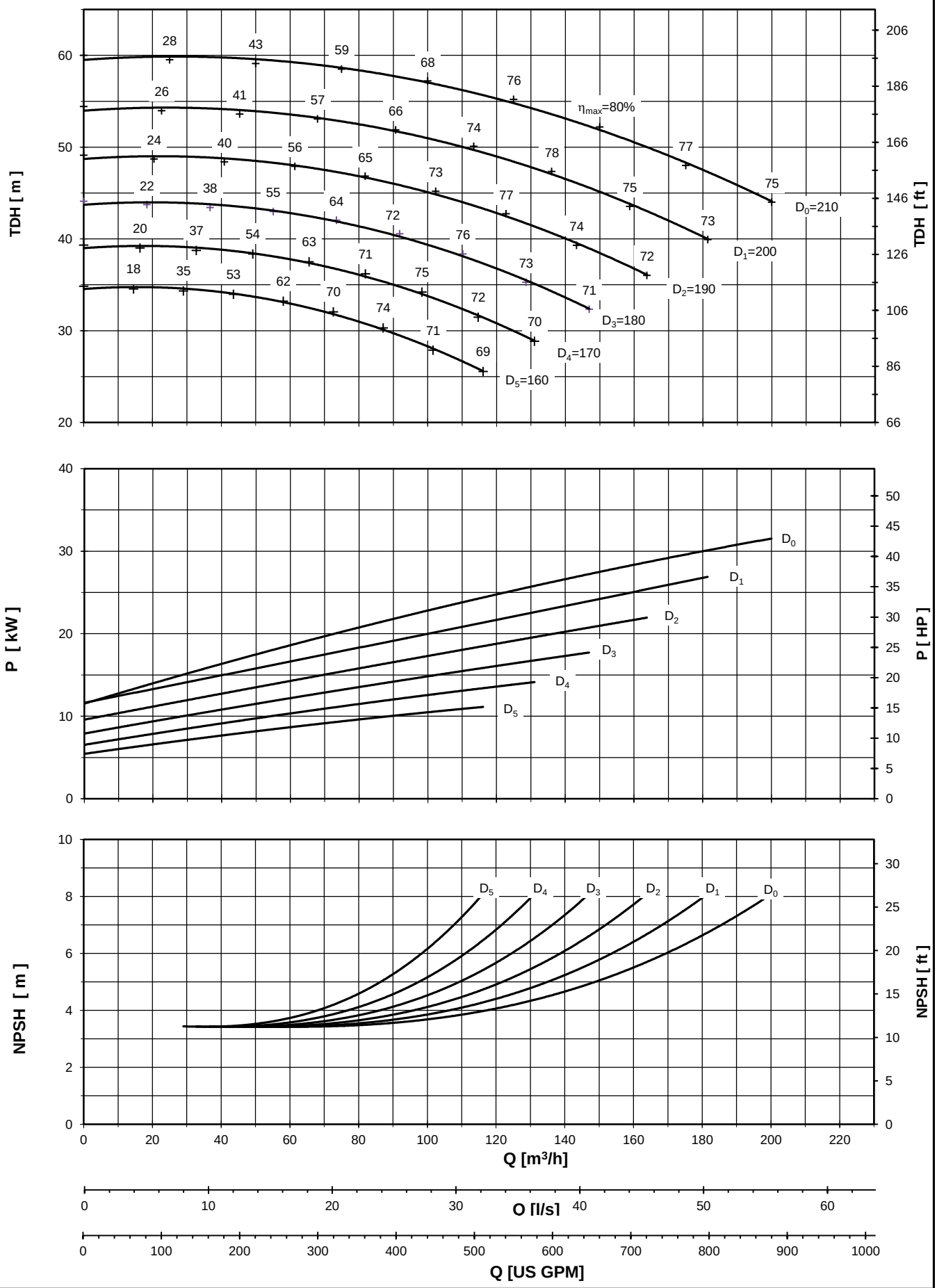
Performance curves are valid for clean cold water-kinematic viscosity 1 [mm^2/s], density 1000 [kg/m^3]. Methods and tolerances of presented performance curves are in accordance with ISO 9906 - Annex A

MZT PUMPI	PUMP PERFORMANCE CURVES No. 4HD.0160.05	PUMP TYPE SCPV 80 - 160 2900 [rpm]



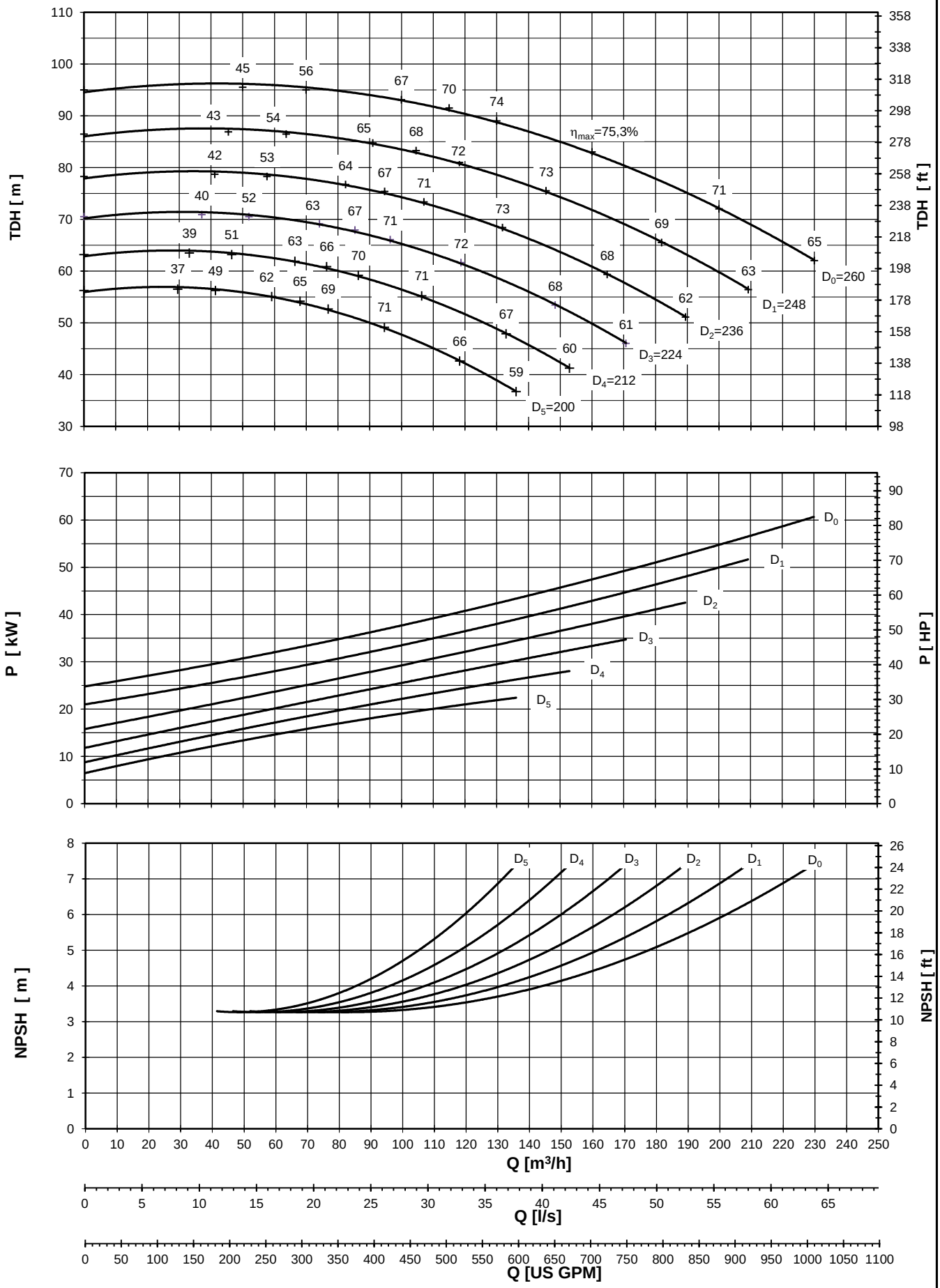
Performance curves are valid for clean cold water-kinematic viscosity 1 [mm^2/s], density 1000 [kg/m^3]. Methods and tolerances of presented performance curves are in accordance with ISO 9906 - Annex A

MZT PUMPI	PUMP PERFORMANCE CURVES No. 4HD.0161.05	PUMP TYPE SCPV 80 - 200 2900 [rpm]



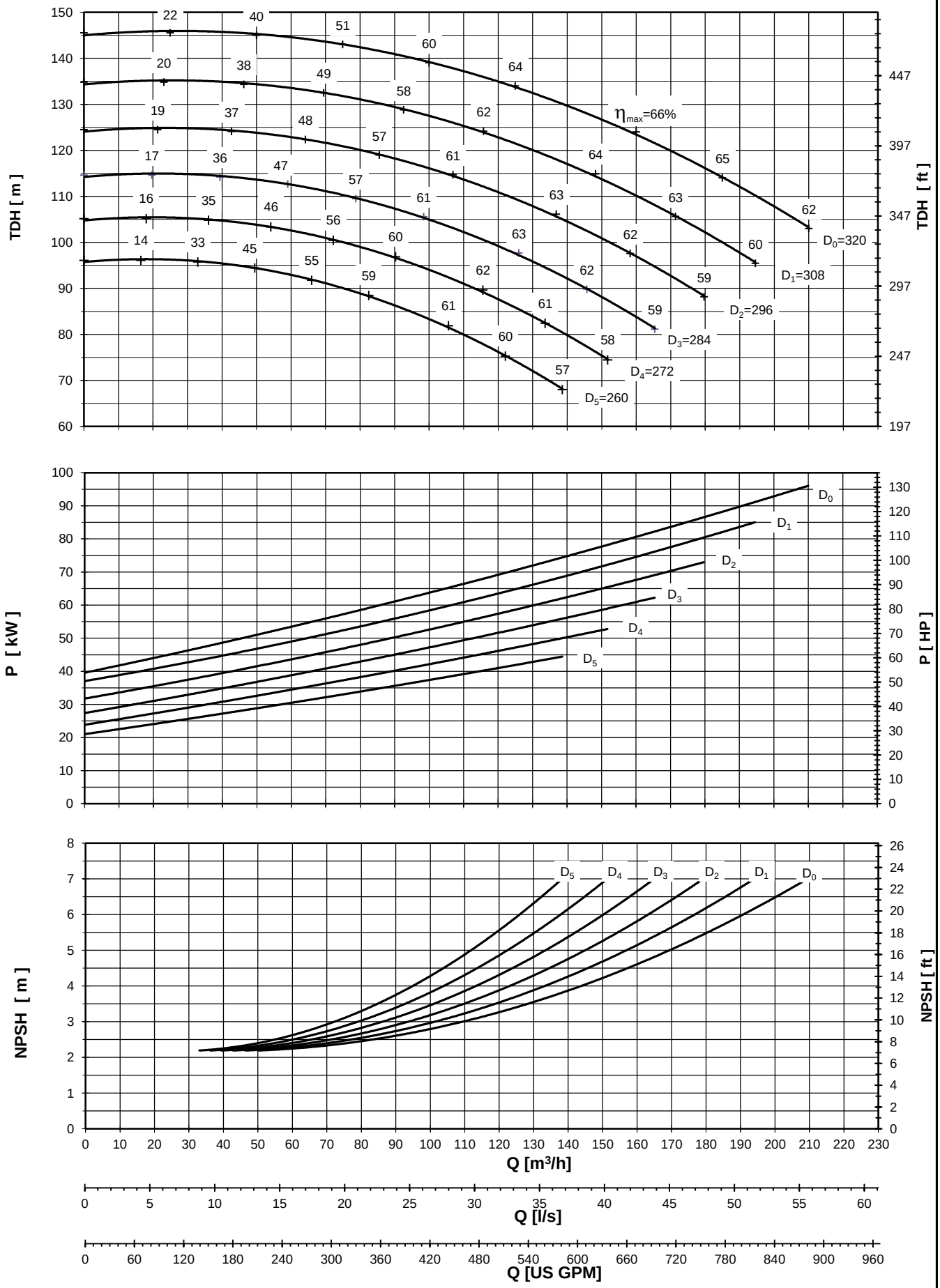
Performance curves are valid for clean cold water-kinematic viscosity 1 [mm2/s], density 1000 [kg/m3]. Methods and tolerances of presented performance curves are in accordance with ISO 9906 - Annex A

MZT PUMPI	PUMP PERFORMANCE CURVES No. 4HD.0162.05	PUMP TYPE SCPV 80 - 250 2900 [rpm]



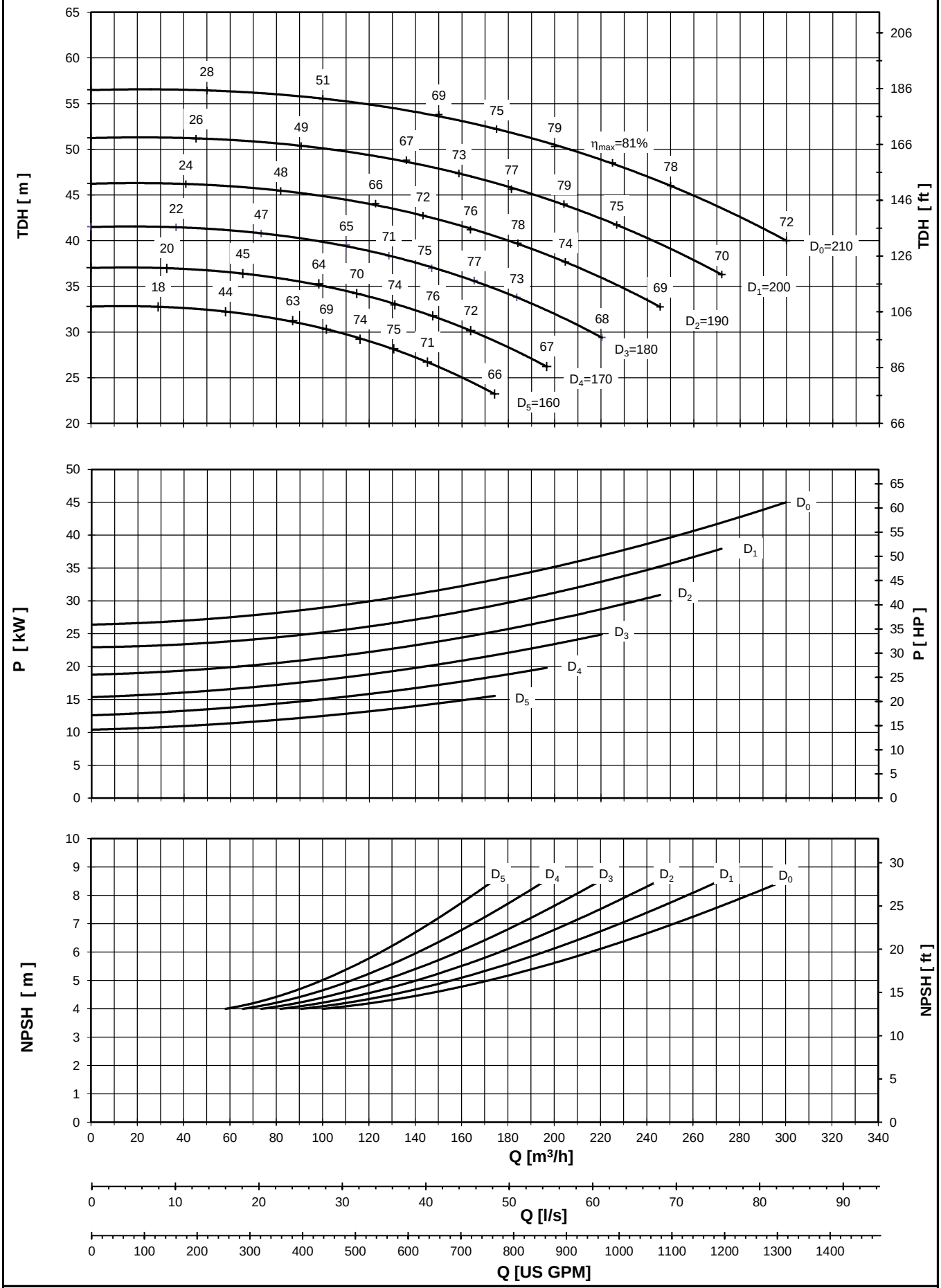
Performance curves are valid for clean cold water-kinematic viscosity 1 [mm^2/s], density 1000 [kg/m^3]. Methods and tolerances of presented performance curves are in accordance with ISO 9906 - Annex A

MZT PUMPI	PUMP PERFORMANCE CURVES No. 4HD.0163.05	PUMP TYPE SCPV 80 - 315 2900 [rpm]



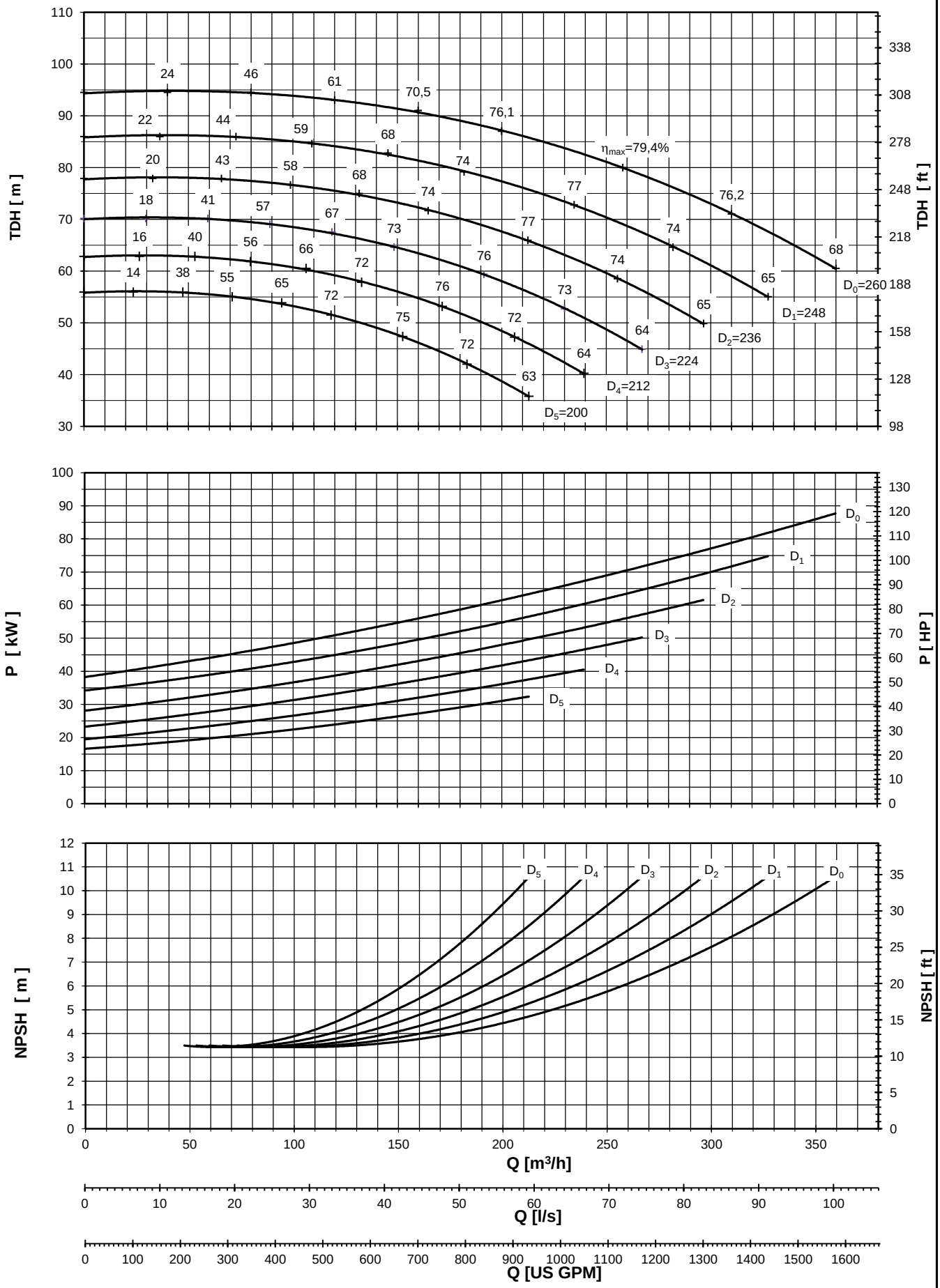
Performance curves are valid for clean cold water-kinematic viscosity 1 [mm^2/s], density 1000 [kg/m^3]. Methods and tolerances of presented performance curves are in accordance with ISO 9906 - Annex A

MZT PUMPI	PUMP PERFORMANCE CURVES No. 4HD.0165.05	PUMP TYPE SCPV 100 - 200 2900 [rpm]



Performance curves are valid for clean cold water-kinematic viscosity 1 [mm2/s], density 1000 [kg/m3]. Methods and tolerances of presented performance curves are in accordance with ISO 9906 - Annex A

MZT PUMPI	PUMP PERFORMANCE CURVES No. 4HS.0166.05	PUMP TYPE SCPV 100 - 250 2900 [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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