

B Pump

VERTICAL TURBINE PUMP

Vertical turbine pump conforming to AWWA E101-88, featuring interchangeable bowls, wear rings, impellers, column bearings, and adjustable column lengths for variable immersion depths.

Main Applications

- ✓ Water supply systems
- ✓ Spray irrigation systems
- ✓ Lowering groundwater levels
- ✓ Drainage systems
- ✓ Seawater systems

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Water Supply Pumps

Vertical Turbine Pump

B Pump



Main applications

- Water supply systems
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Fluids handled

- Water
- Seawater
- Condensate

Operating data

Operating properties

Characteristic		Value
Flow rate	Q [m³/h]	≤ 2600
	Q [l/s]	≤ 722
Head	H [m]	≤ 260
Fluid temperature	T [°C]	≤ 105
Speed	n [rpm]	3500
Immersion depth	ET [m]	≤ 120
Borehole diameter	D [mm]	150 to 600
	D [inch]	6 to 24

Design details

Design

- Centrifugal pump
- Vertical installation
- Single-stage or multistage
- Pump shaft, intermediate shaft and top shaft
- connected via screwed coupling, conical coupling or split muff coupling
- Torque transmission from pump shaft to impeller and couplings via locking sleeves or keys
- Nominal discharge nozzle diameter: 80 mm - 500 mm
- Borehole diameter: 6 inches to 24 inches

Pump Casing

- Radially split relative to the shaft
- Suction casing
- Discharge casing
- Pump Bowl
- Replaceable casing wear rings

Impeller Type

- Single-entry mixed flow impeller without hydraulic balancing
- Impeller wear rings (optional)
- Axially locked in position on the shaft via locking sleeves or stage sleeves

Shaft Seal

- Gland packing
- Mechanical seal

Bearings

Shaft Guide Bearings:

- Product-lubricated plain bearings
- Pump shaft supported by bearing bush in each pump bowl
- Intermediate shaft supported by bearing spiders in bearing bushes installed between column pipes
- Model with shaft enclosing tube: column pipe bearings lubricated by external fluid (water/oil)

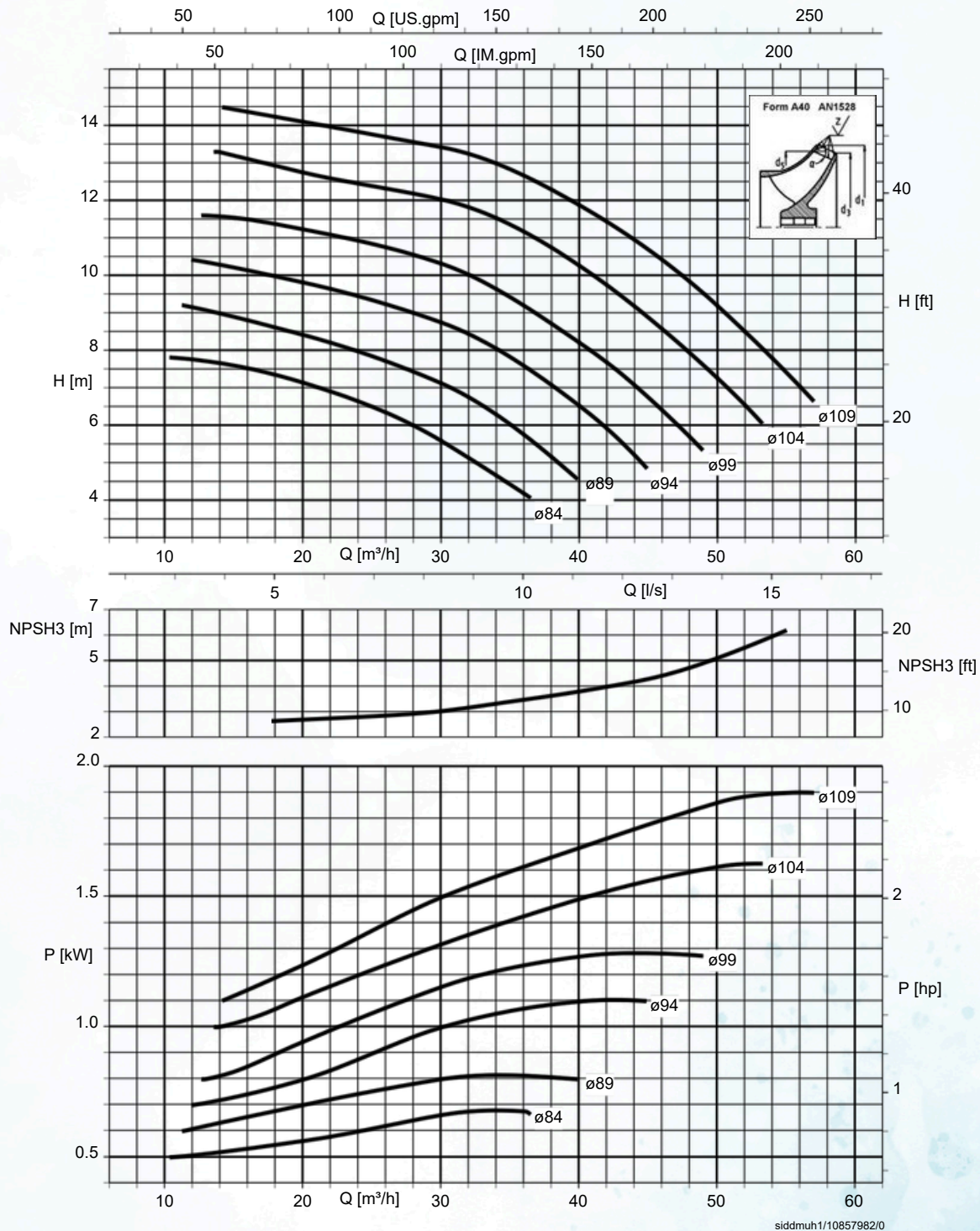
Thrust Bearings:

- Grease-lubricated rolling element bearings
- Angular contact ball bearings in back-to-back arrangement
- Uncooled

Characteristic curves

n = 2900 rpm

B6B, n = 2900 rpm



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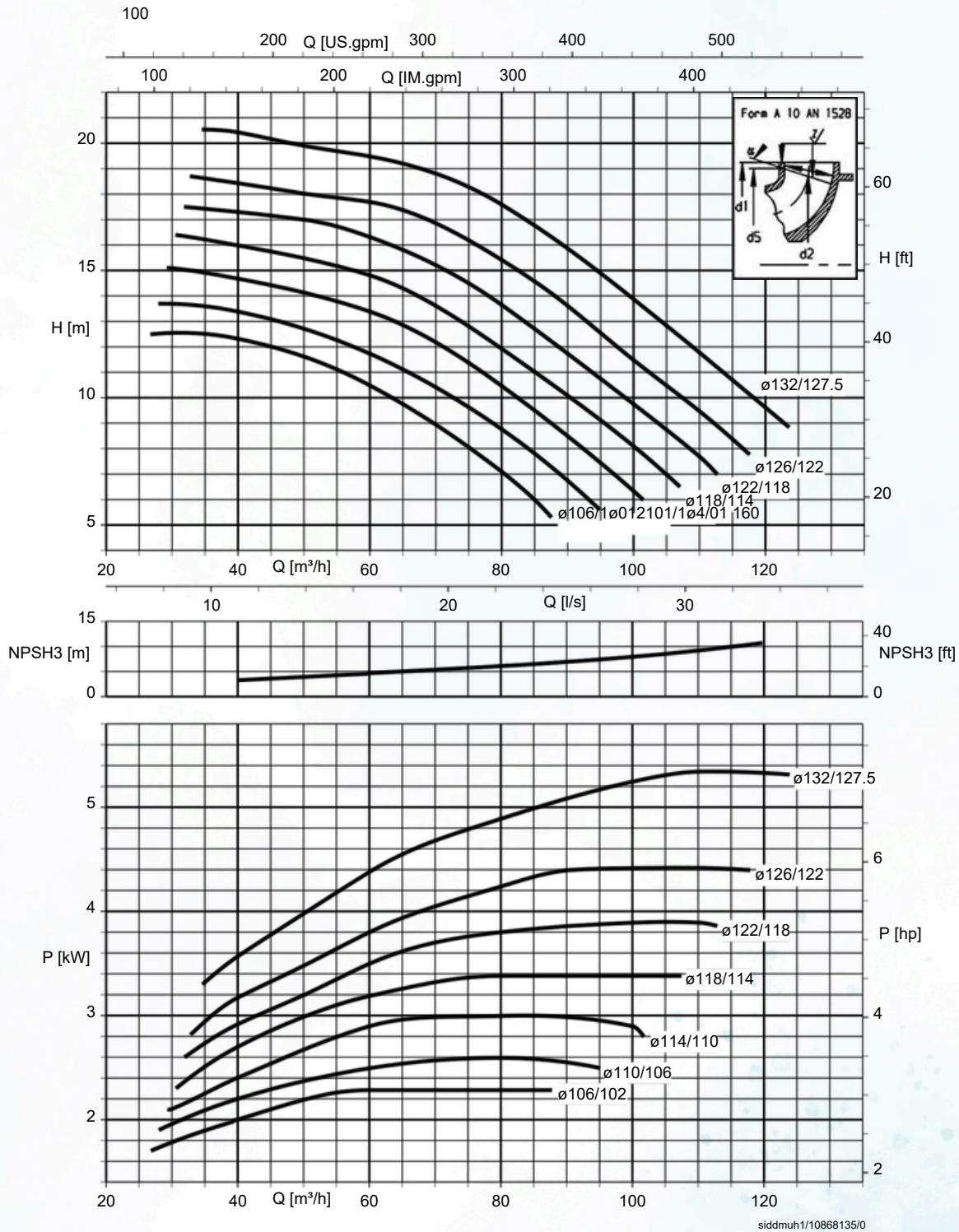


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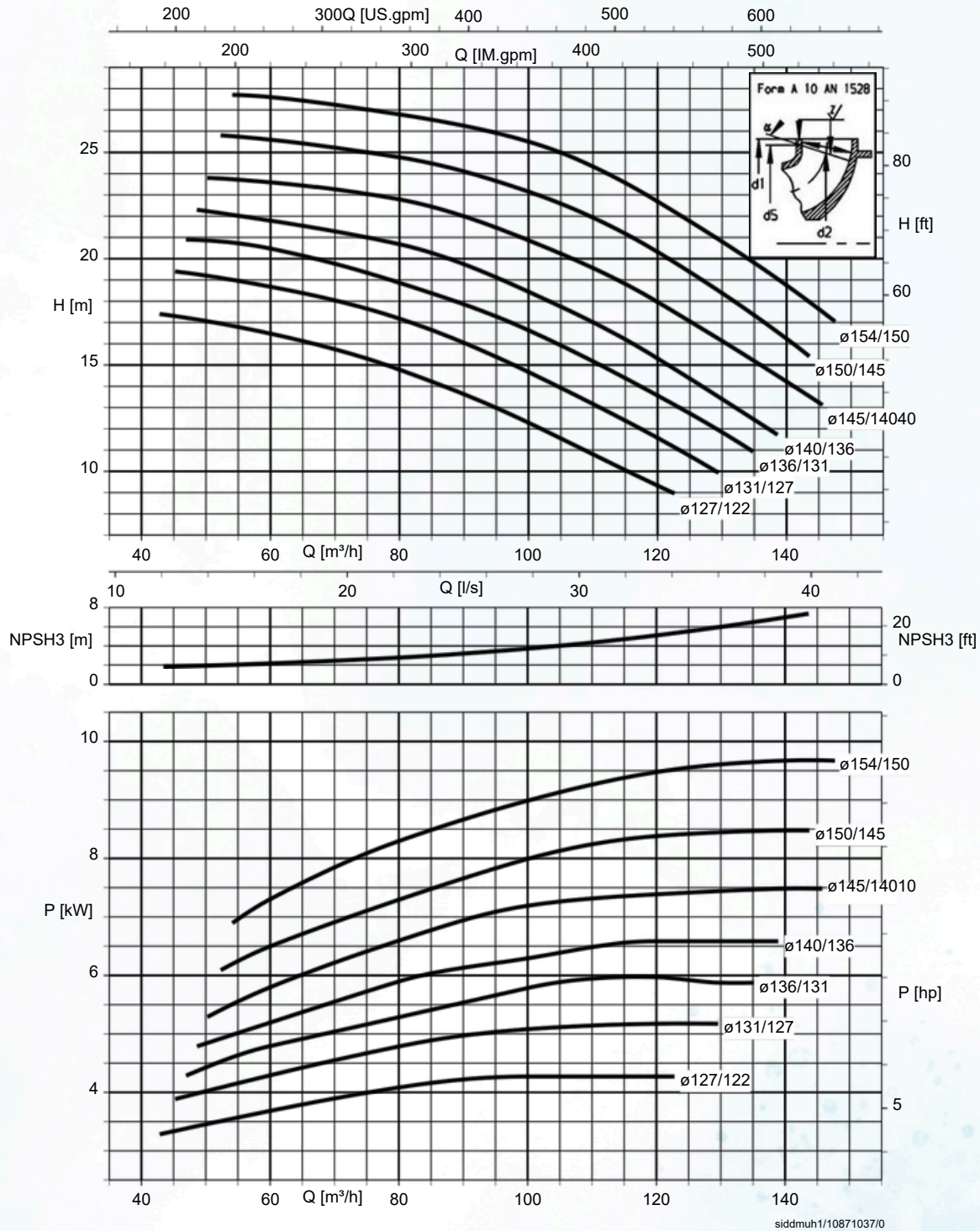


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B7B, n = 2900 rpm



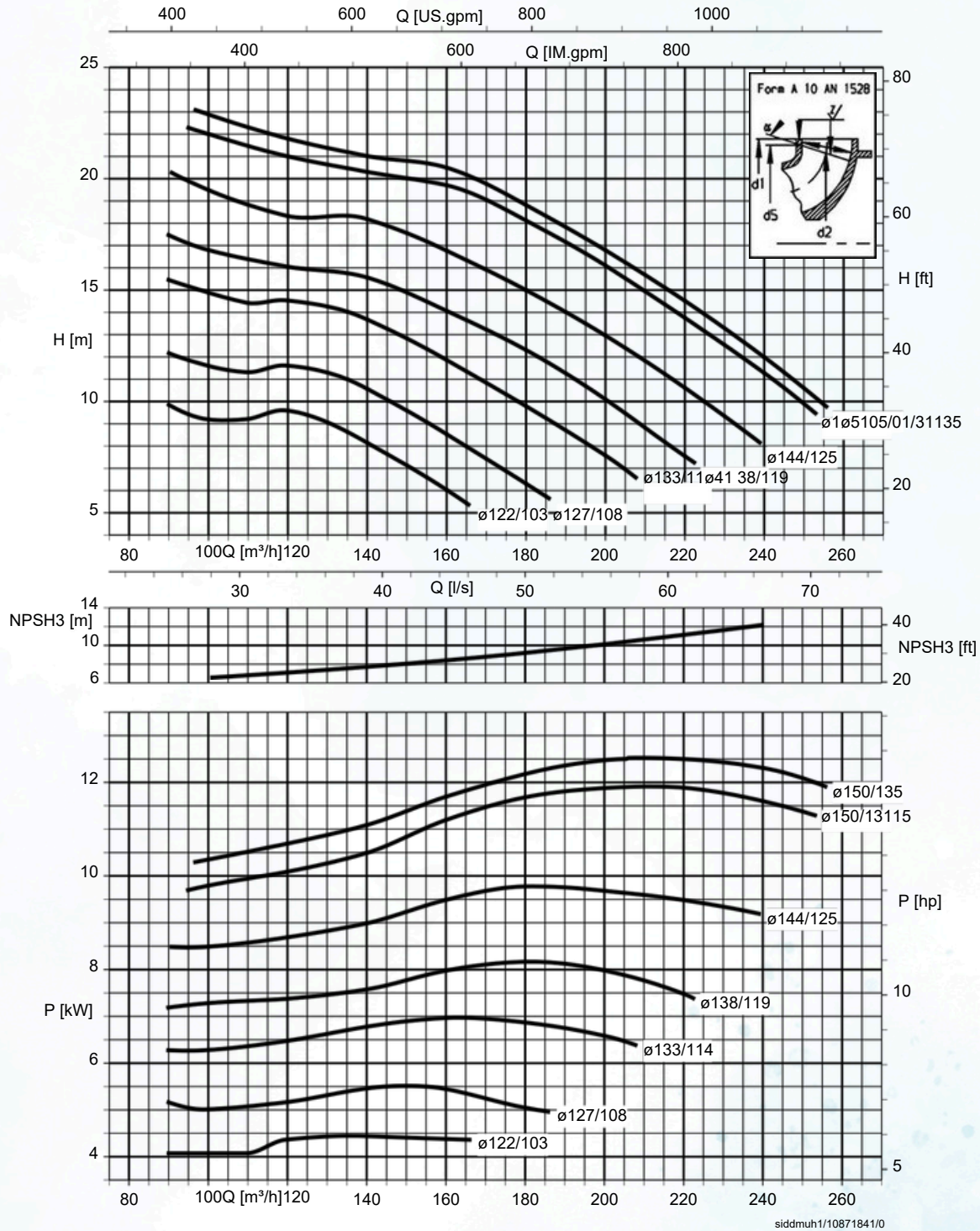
B8B, n = 2900 rpm



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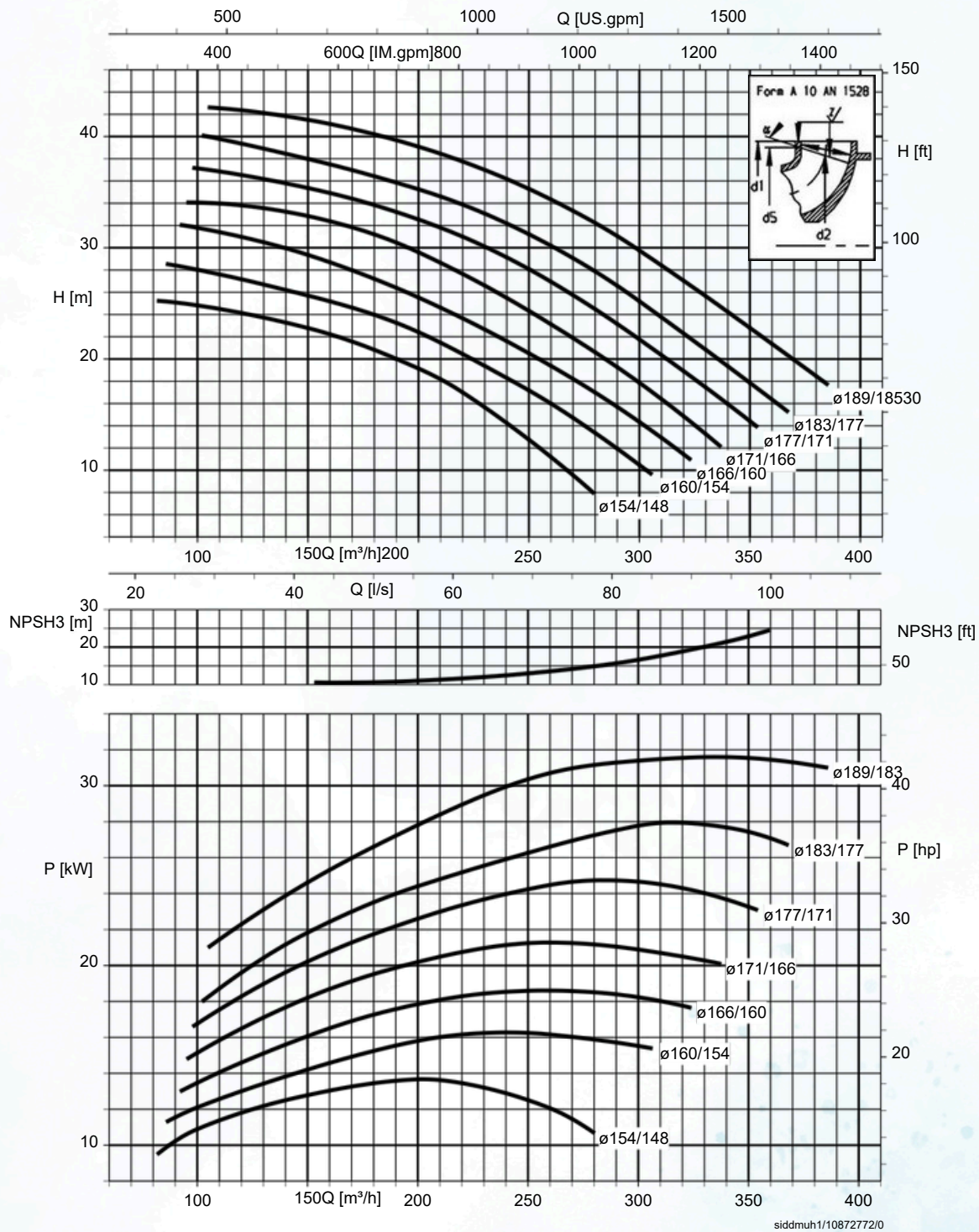


B8D, n = 2900 rpm



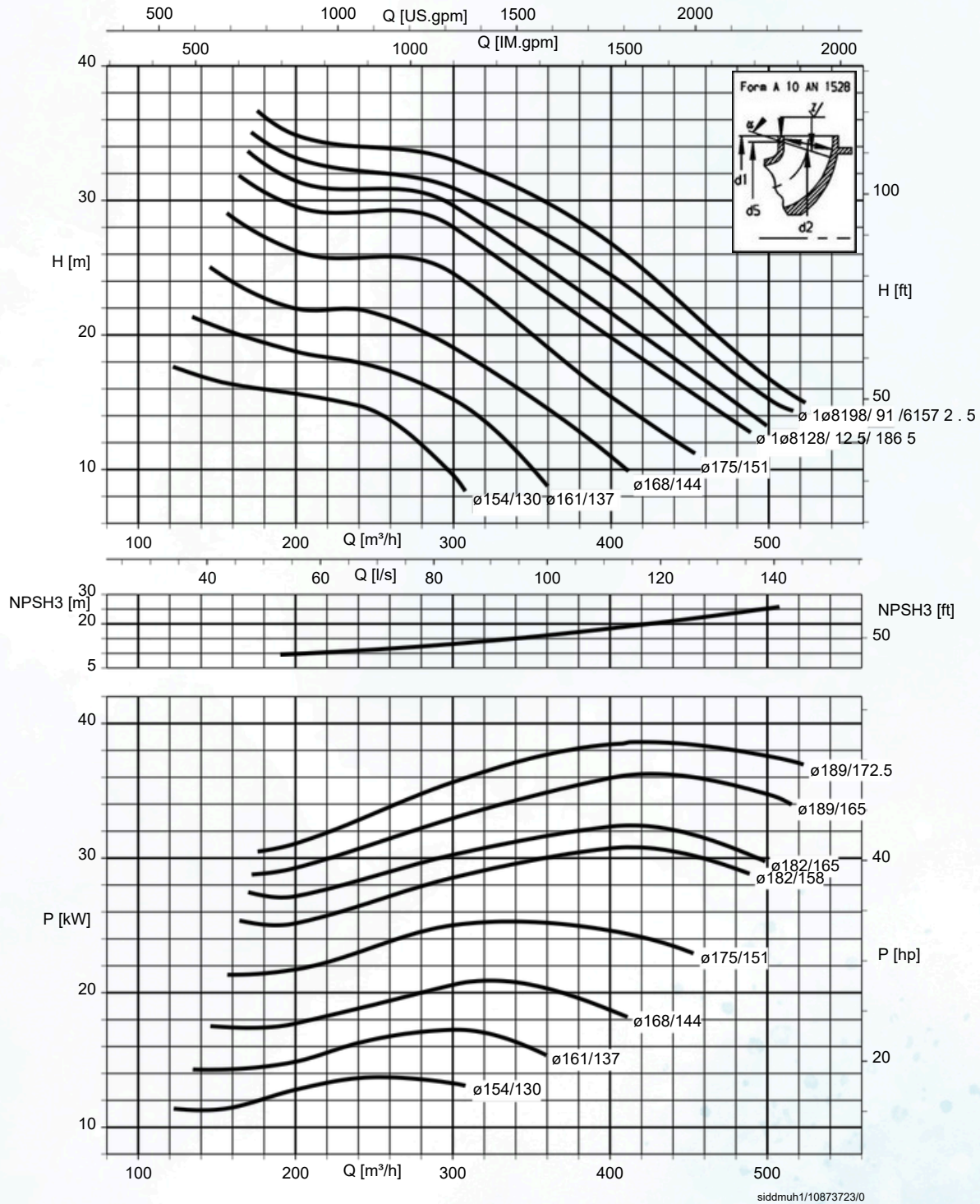
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B10B, n = 2900 rpm



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B10D, n = 2900 rpm



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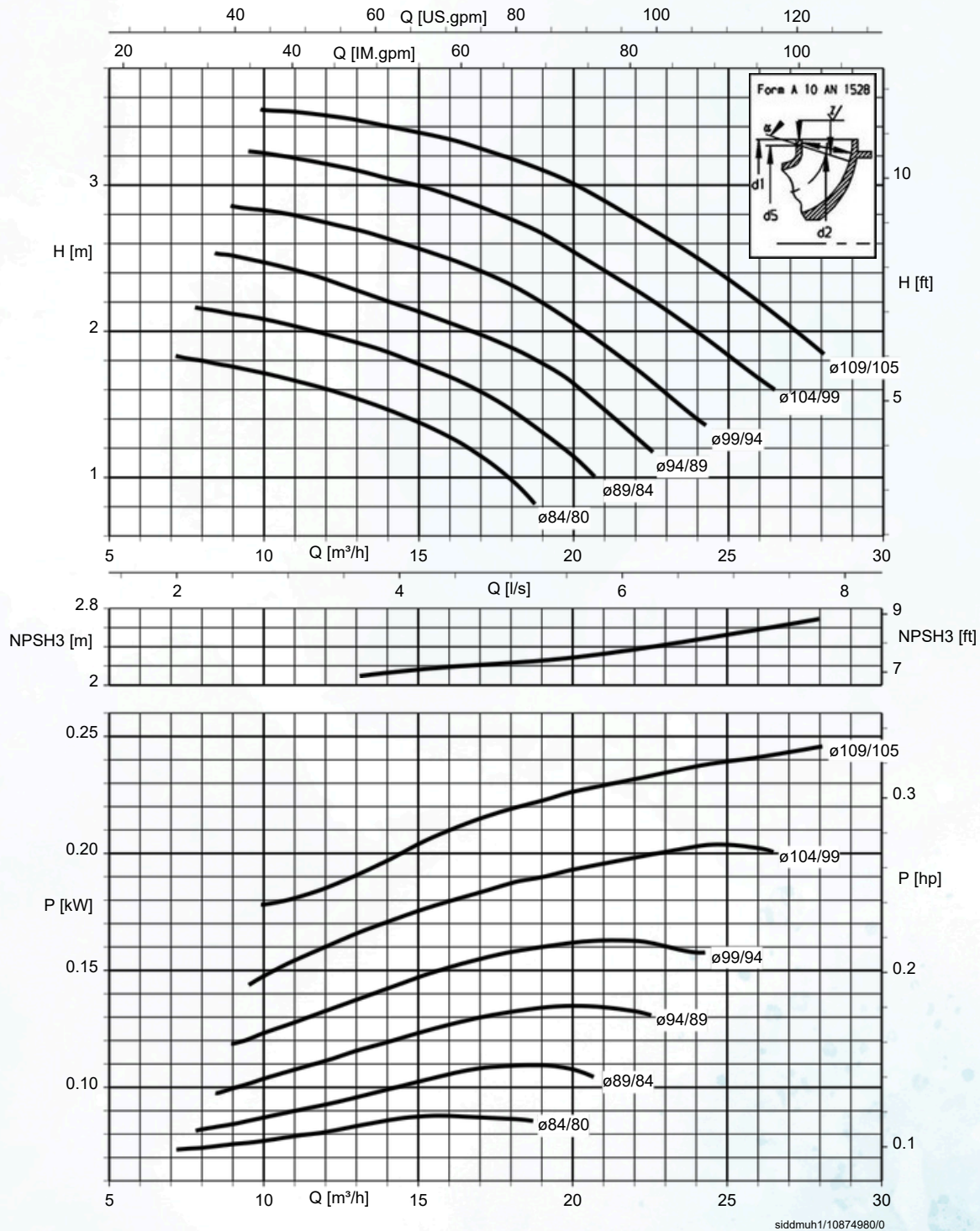
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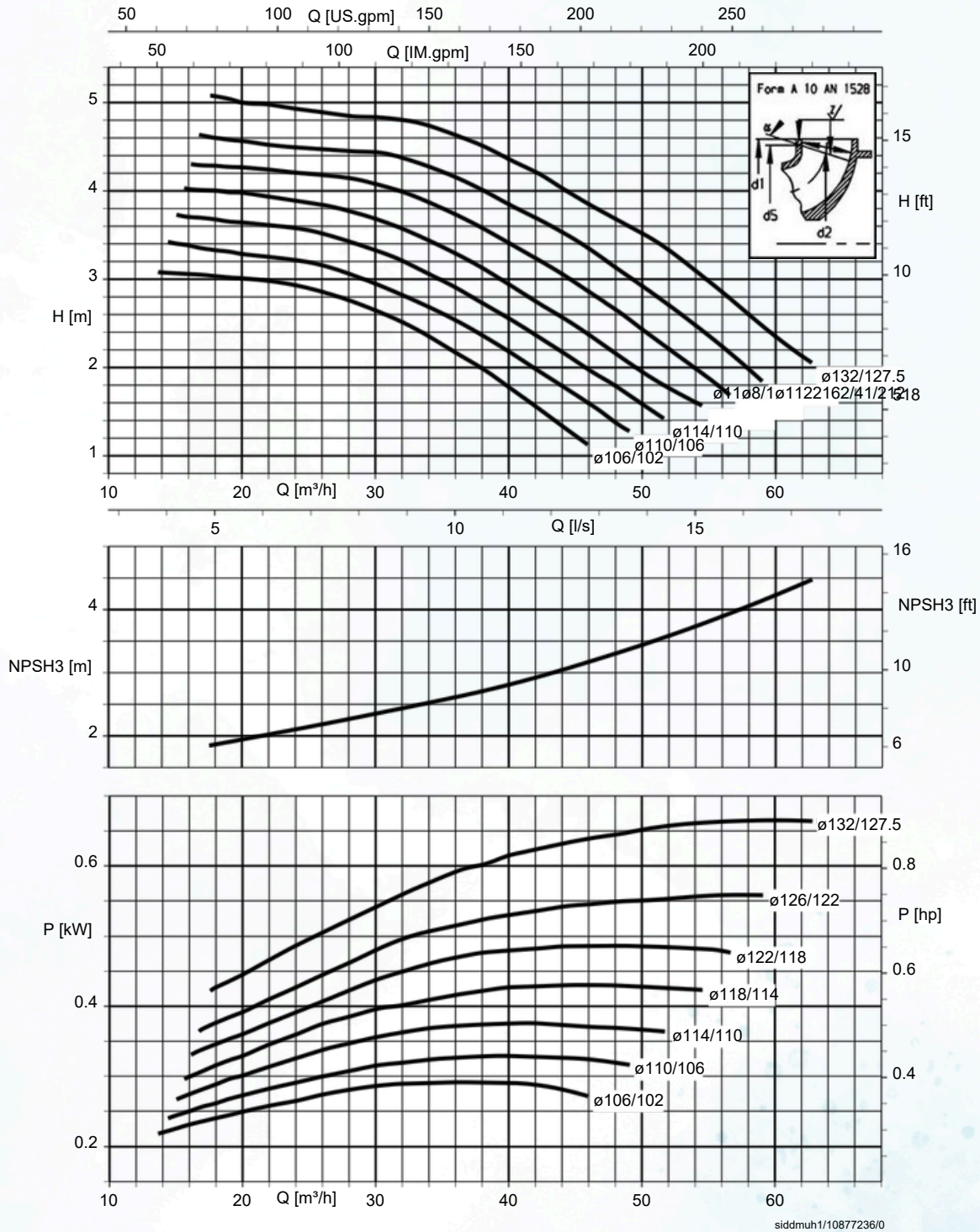
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n = 1450 rpm

B6B, n = 1450 rpm



B7B, n = 1450 rpm



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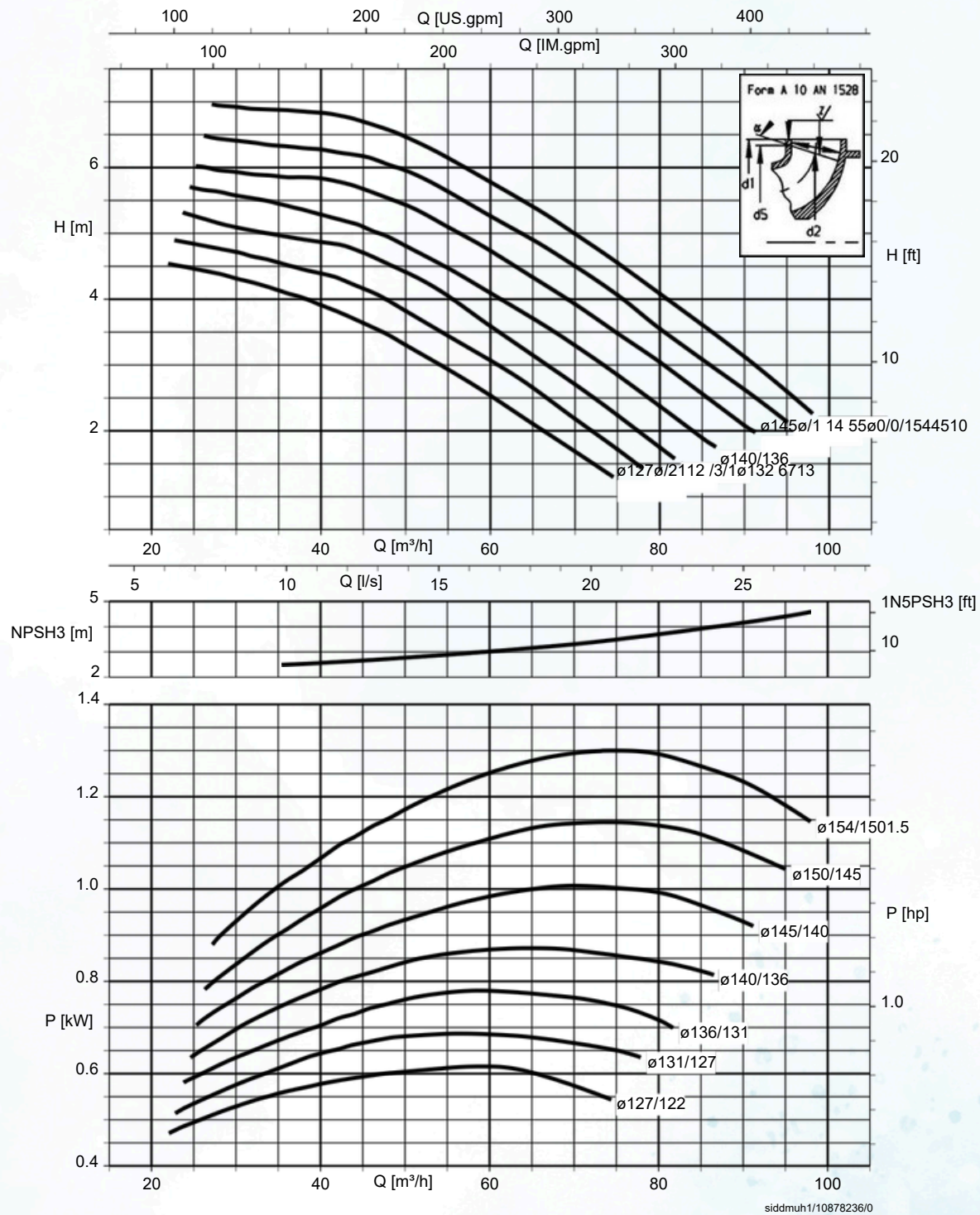


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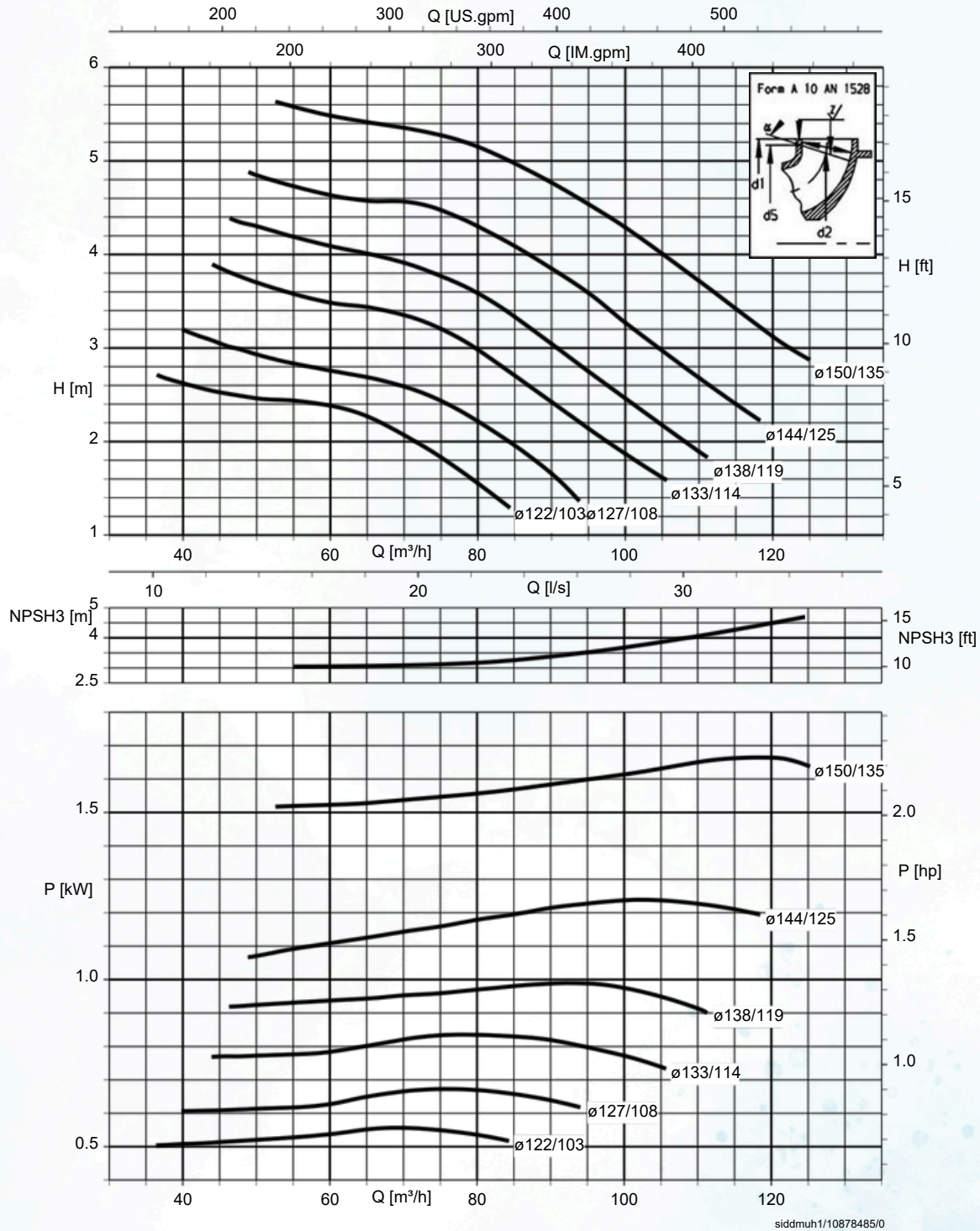


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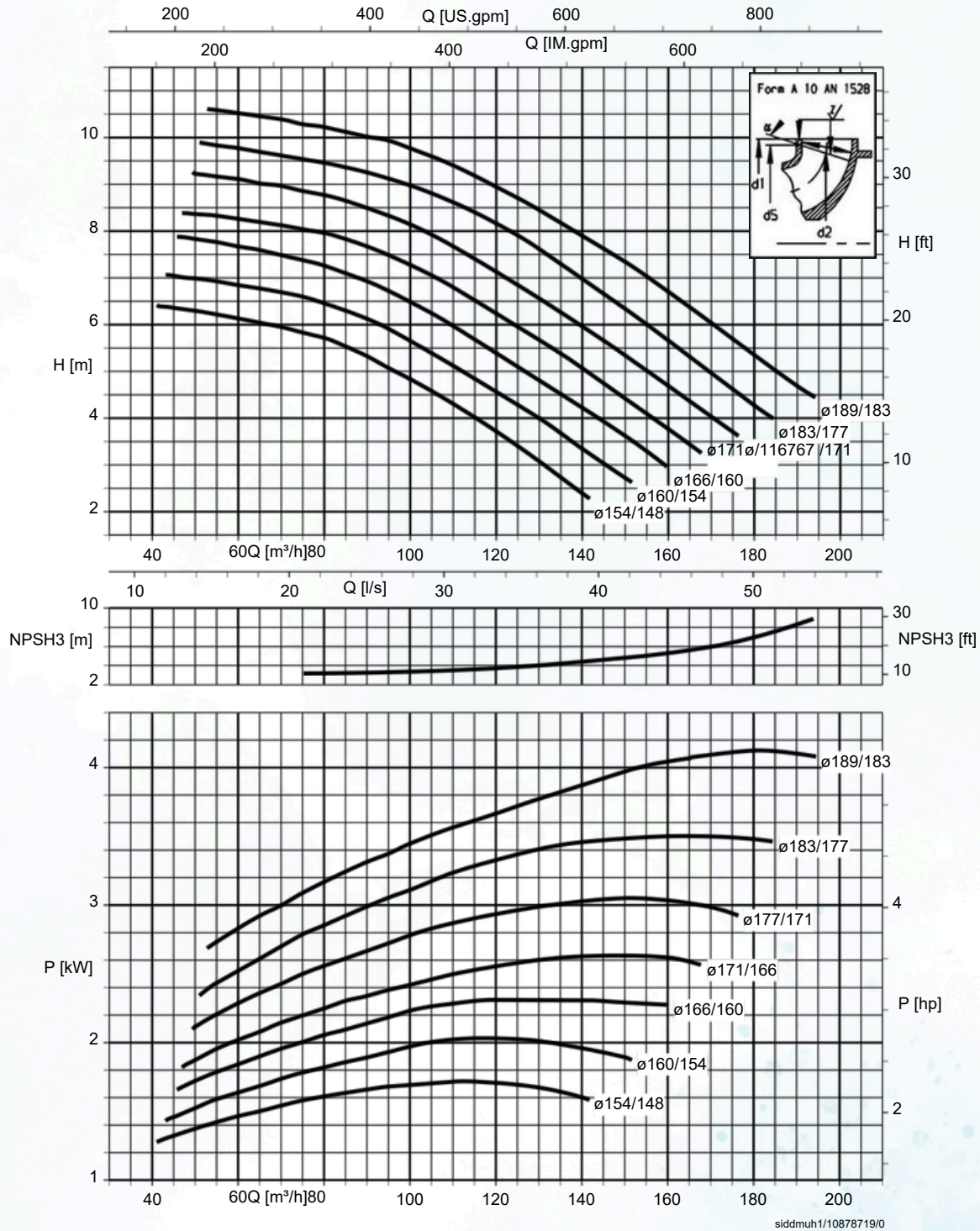
B8B, n = 1450 rpm



B8D, n = 1450 rpm

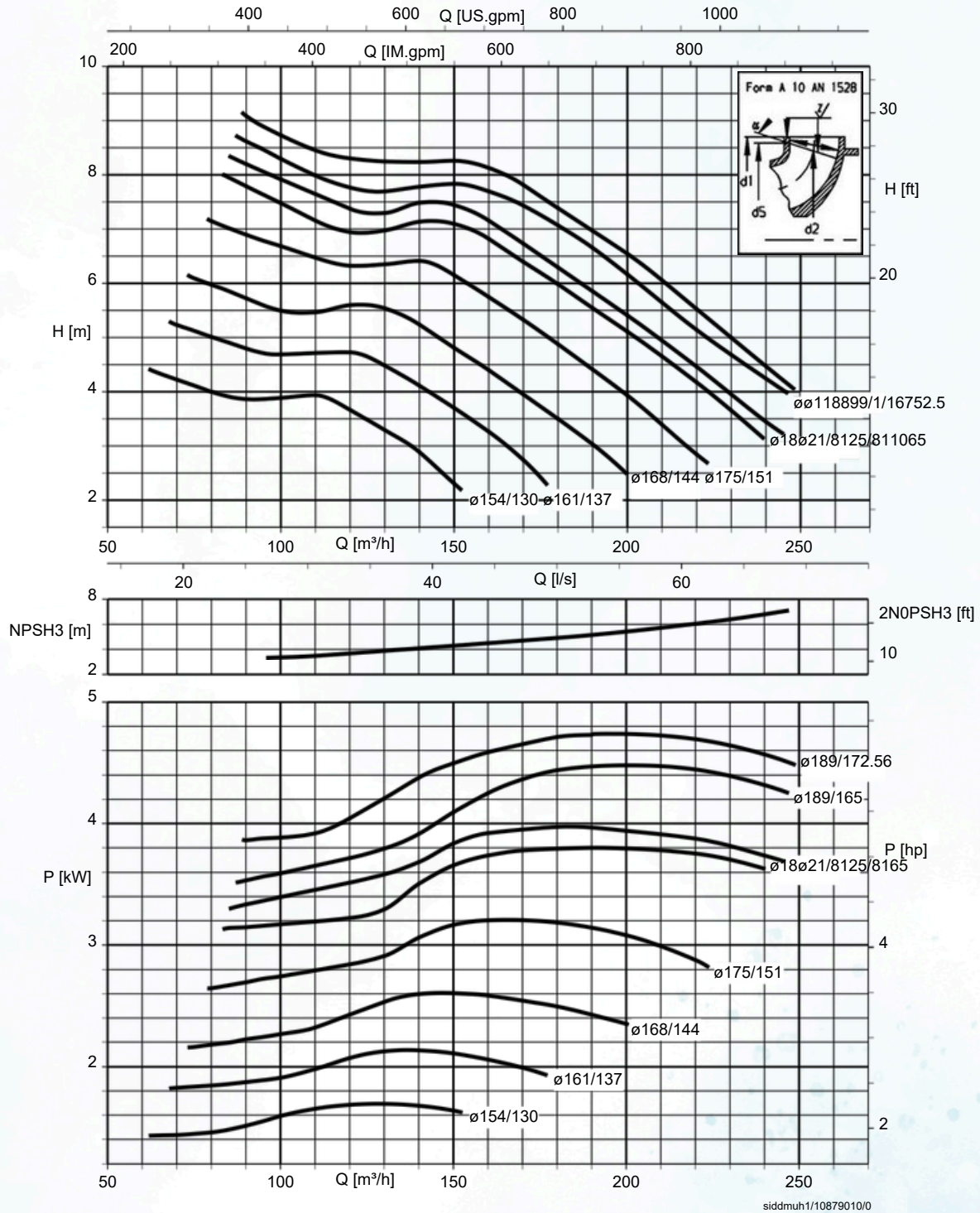


B10B, n = 1450 rpm



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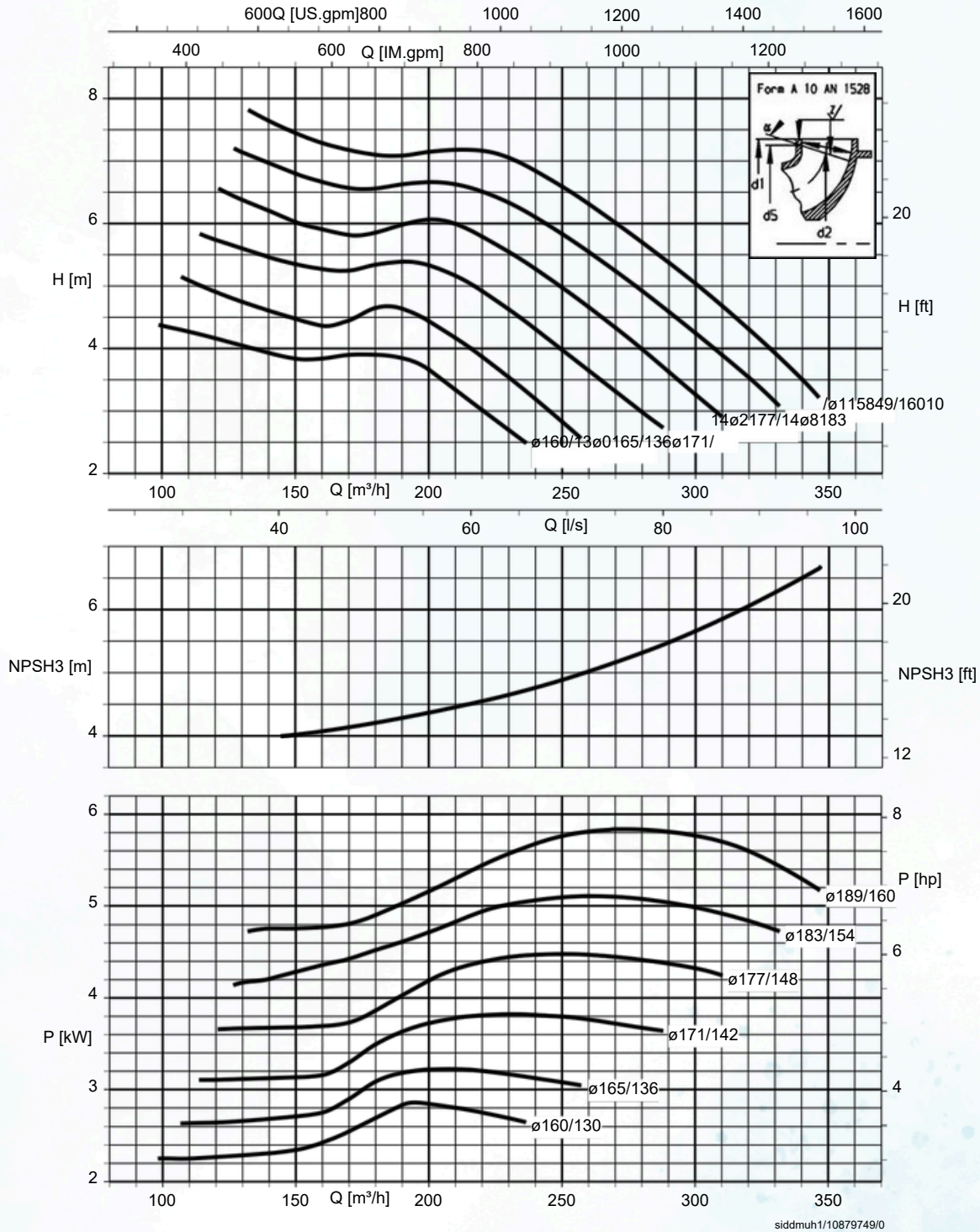
B10D, n = 1450 rpm



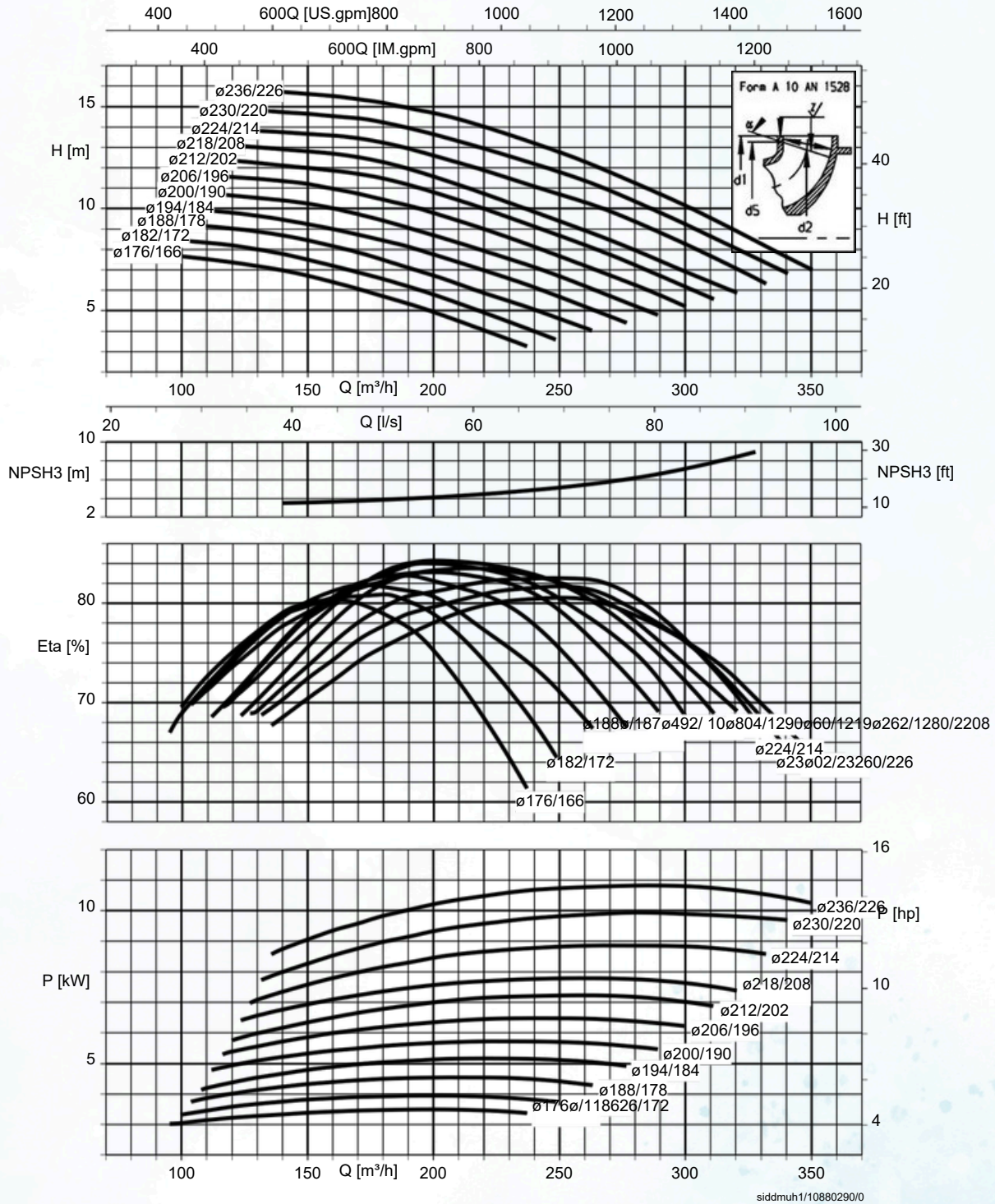
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B10F, n = 1450 rpm

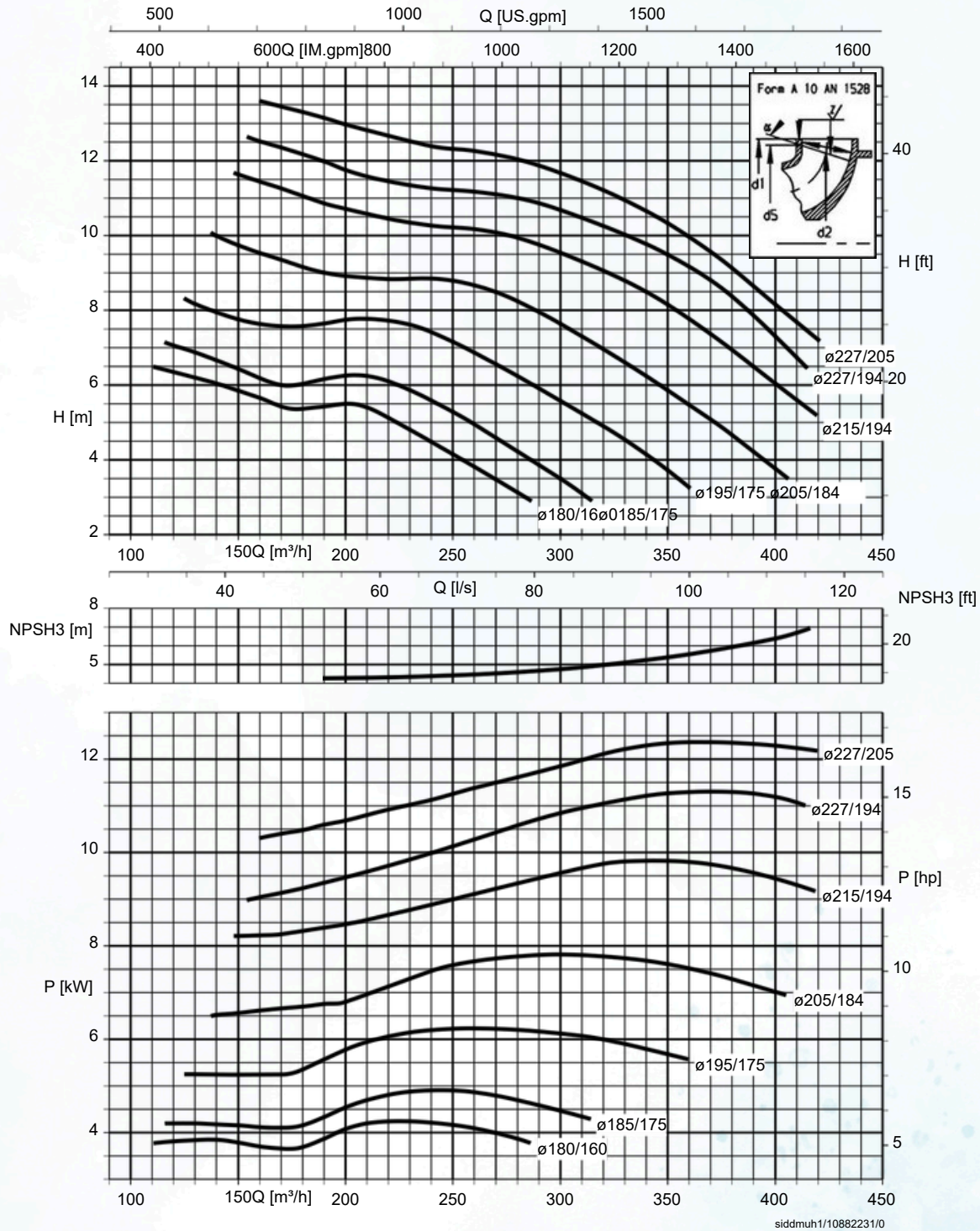
400



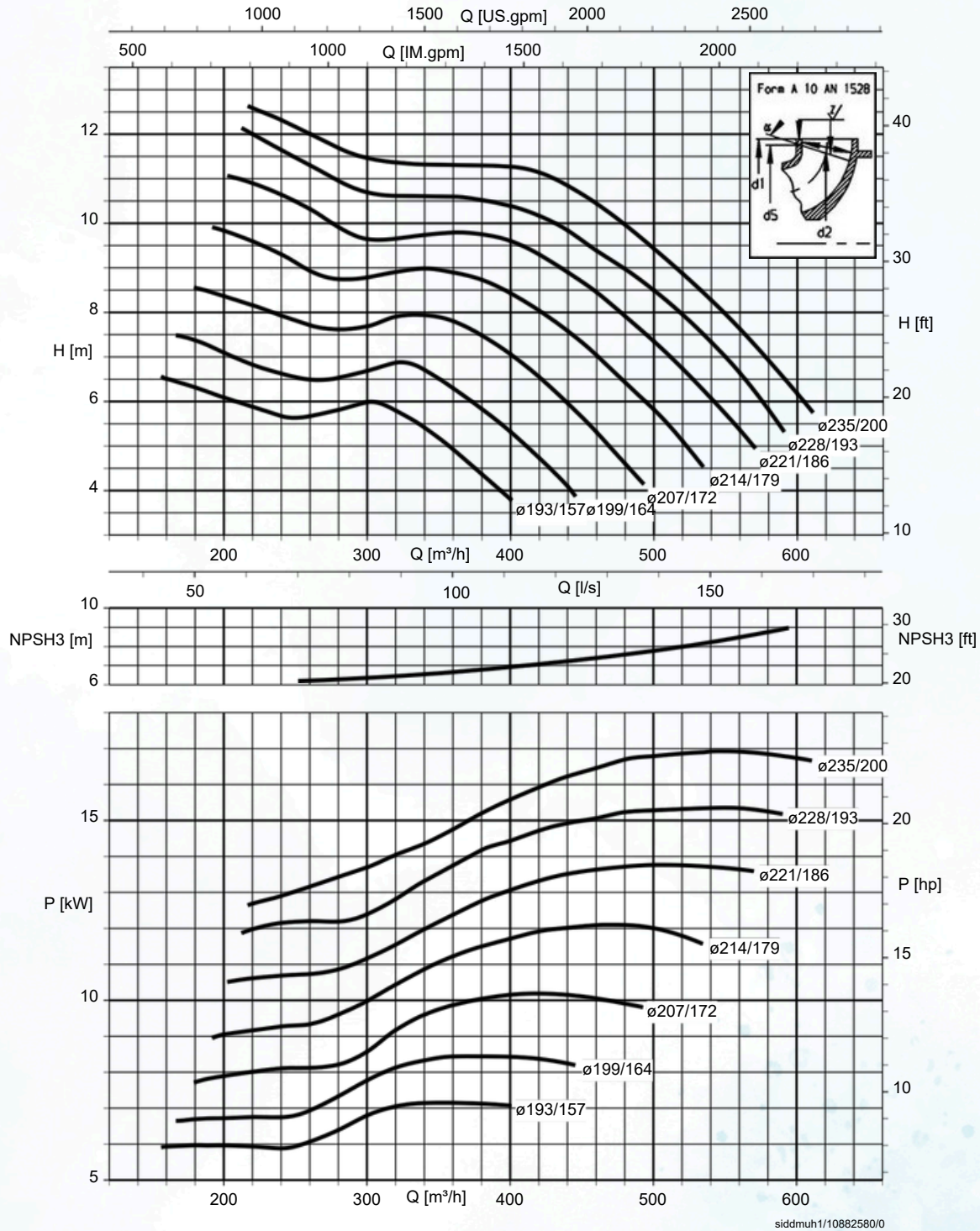
B12B, n = 1450 rpm



B12D, n = 1450 rpm

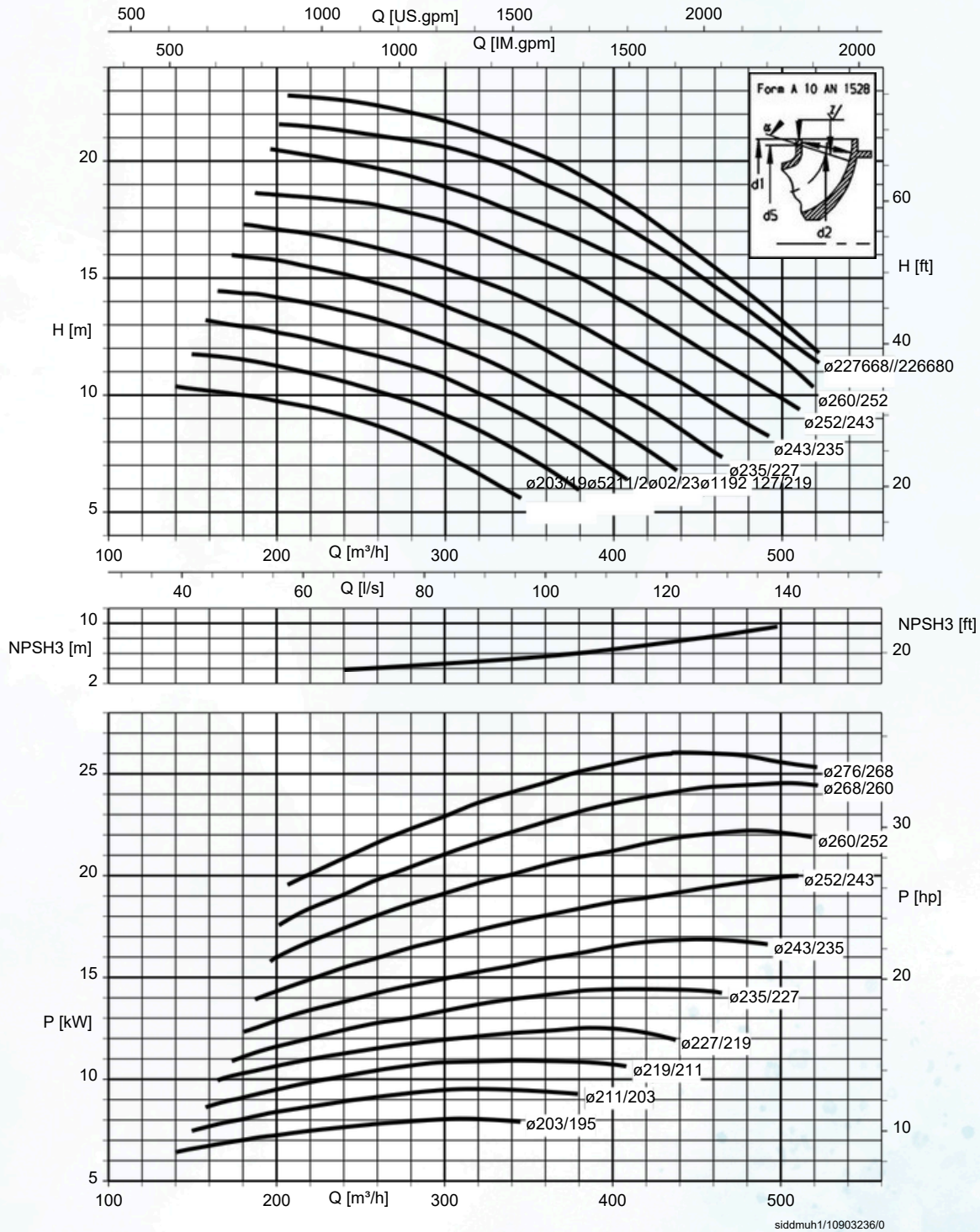


B12F, n = 1450 rpm

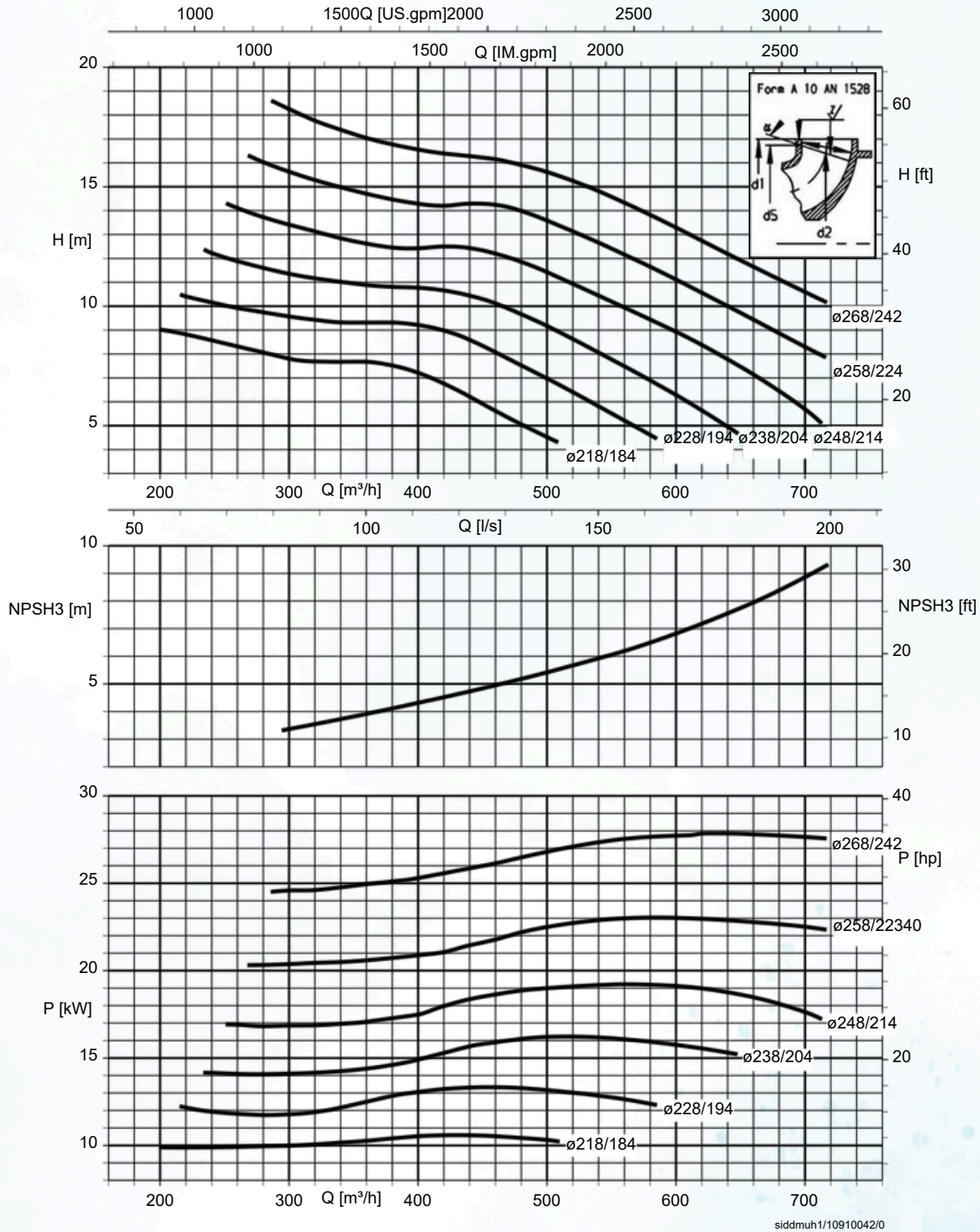


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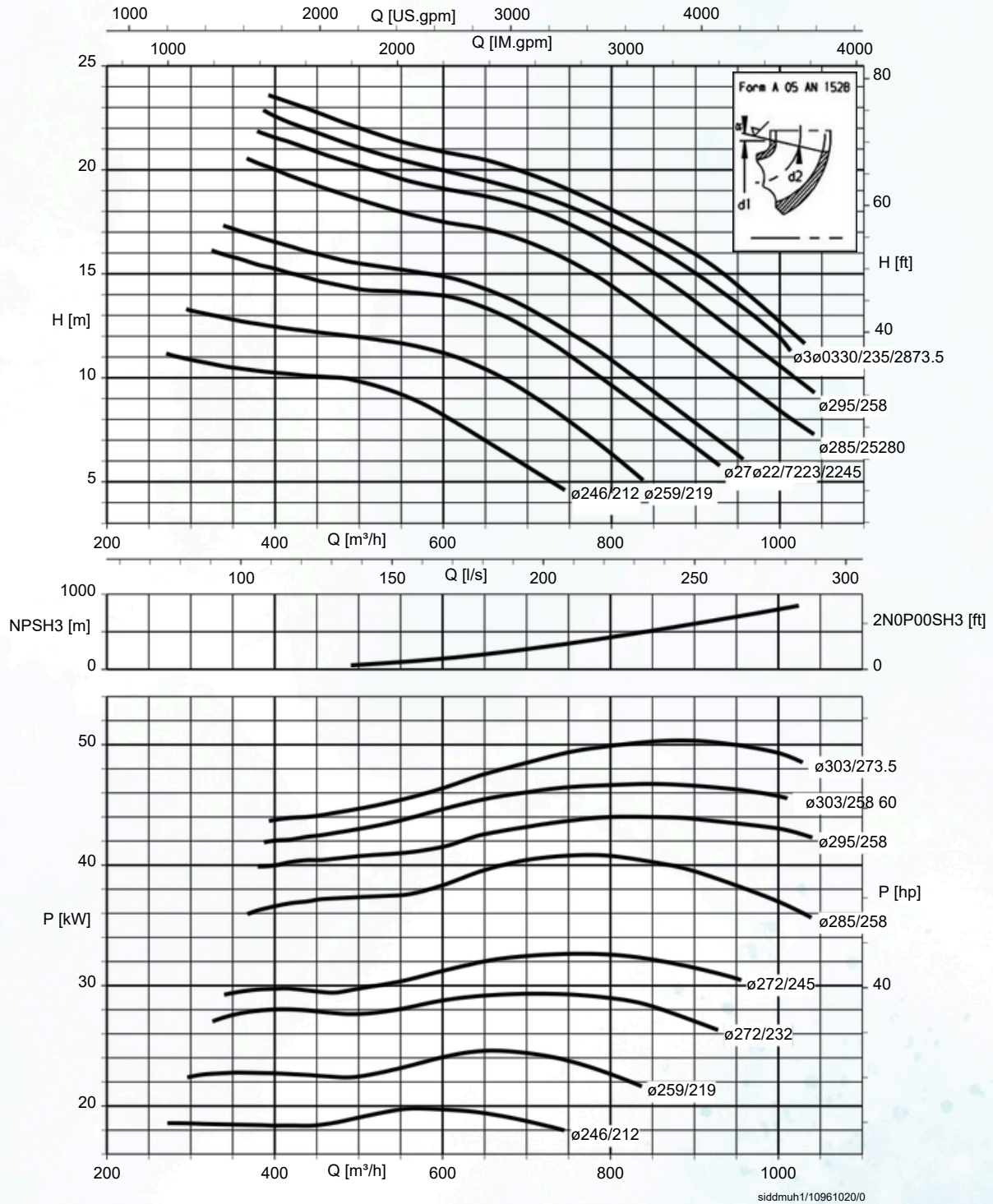
B14B, n = 1450 rpm



B14D, n = 1450 rpm



B16D, n = 1450 rpm





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