

## PSD 41 - Shaft 14 mm hollow

- Software features: spindle compensation drive, increased breakaway performance, synchronized run
- Software modules for IO-Link: changeover of parameter set, target speed in process data and modulo function
- Protection of internal electronics against manual operation
- Space-saving, compact design
- Optional rotatable actuator housing
- Galvanically separated supply voltages between control and motor and bus
- Precise position feedback thanks to an absolute measurement system without battery
- Optional gearbox for more torque
- Address may be set using the bus or an address switch (not for IO-Link)
- Status LEDs visible from the outside



Self-holding torque below at approx. 60 mA supply current and 0.5 A phase current, currentless 0 Nm.

Dimensions in mm.

See link Manual(s) for documentation and software.

**Type:** Vertical

**Nominal Torque (Nm):** 0.8; 3

**Nominal Speed (rpm):** 50; 200

**Nominal Voltage (V DC):** 24 ( $\pm 10\%$ )

**Nominal Current (A):** 2.0

**Output Shaft (mm):** 14

**Output Shaft Type:** Hollow

**Rotation Shaft / Housing:** Direct or 0°; 90°; 180°; 270°

**BUS Communication:** Can Open (CA); IO-Link (IO); ProfiNet (PN); EtherCat (EC); Ethernet IP (EI)

**Electrical connection:** 0: Standard

**Protection Class:** IP50; IP65

**Motor:** Stepper motor

**Supply Voltage:** 24 V DC  $\pm 10\%$  galvanically separated between motor and control

**Measurement System:** Absolute without battery

**Accuracy:** " $\pm 0.7^\circ$  for versions with gearbox;  $\pm 1.8^\circ$  for versions without gearbox"

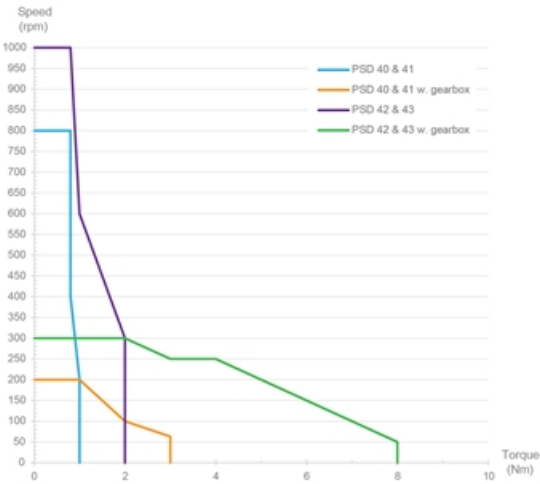
**Intermittence:** Start-up duration up to 50%

**Manual Adjustment:** No

**Brake:** No

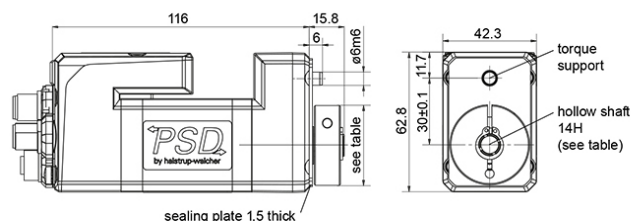
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Performance Curve - Direct Drives PSD

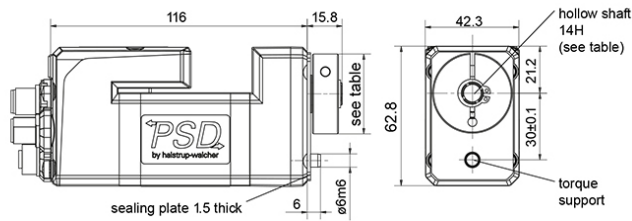


## General Data

PSD 411-14H (hollow shaft, 1 Nm)



PSD 413-14H (hollow shaft, 3 Nm)



Hollow shaft	Tolerance	Plug depth	ø Clamp ring	Cylinder screw
ø14	H7	20	35	DIN 912 M4 x 16

Designation	Nominal Torque (Nm)	Nominal Speed (rpm)	Nominal Current (A)	Self-holding Torque (Nm)	Max. Speed (rpm)
<b>PSD 413-14H</b>	3	50	2.0	1.5	200
<b>PSD 411-14H</b>	0.8	200	2.0	0.4	500

Designation	Positioning Range (rot.)
<b>PSD 413-14H</b>	986
<b>PSD 411-14H</b>	4026