

Stopper Rod Drive

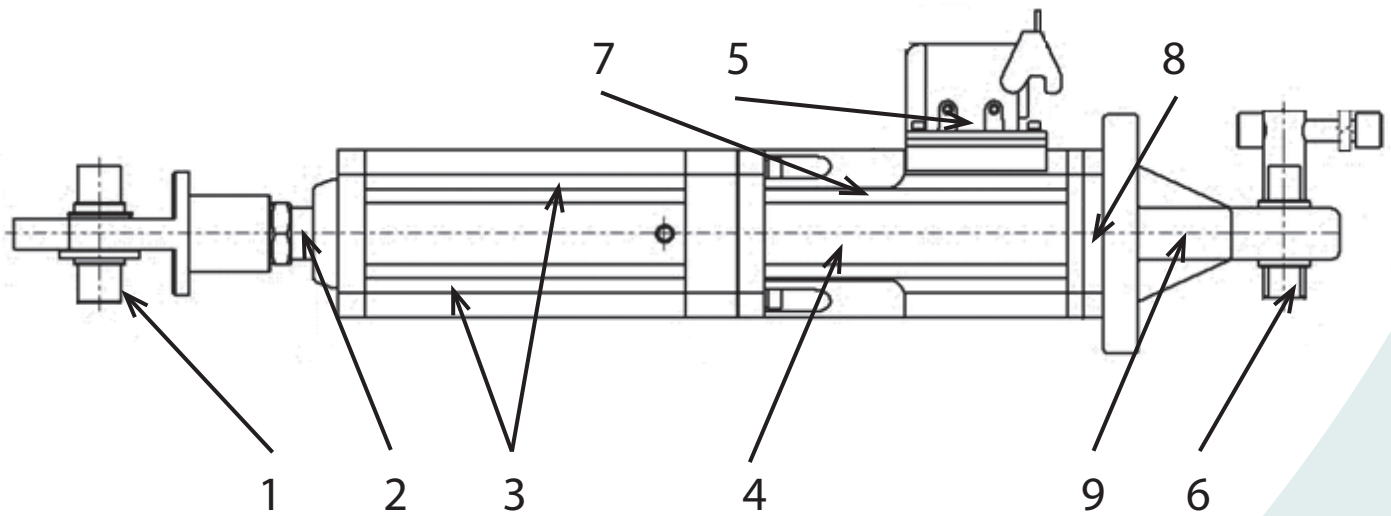
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Features and Benefits

- ▶ Robust drive for heavy industries
- ▶ Only electrical connections
- ▶ Not self-locking
- ▶ Low weight
- ▶ Low force needed for movement in hand mode
- ▶ Flange and handle on customer's request
- ▶ Fast and easy connection to stopper
- ▶ Industrial Harting connector for connection to servodrive

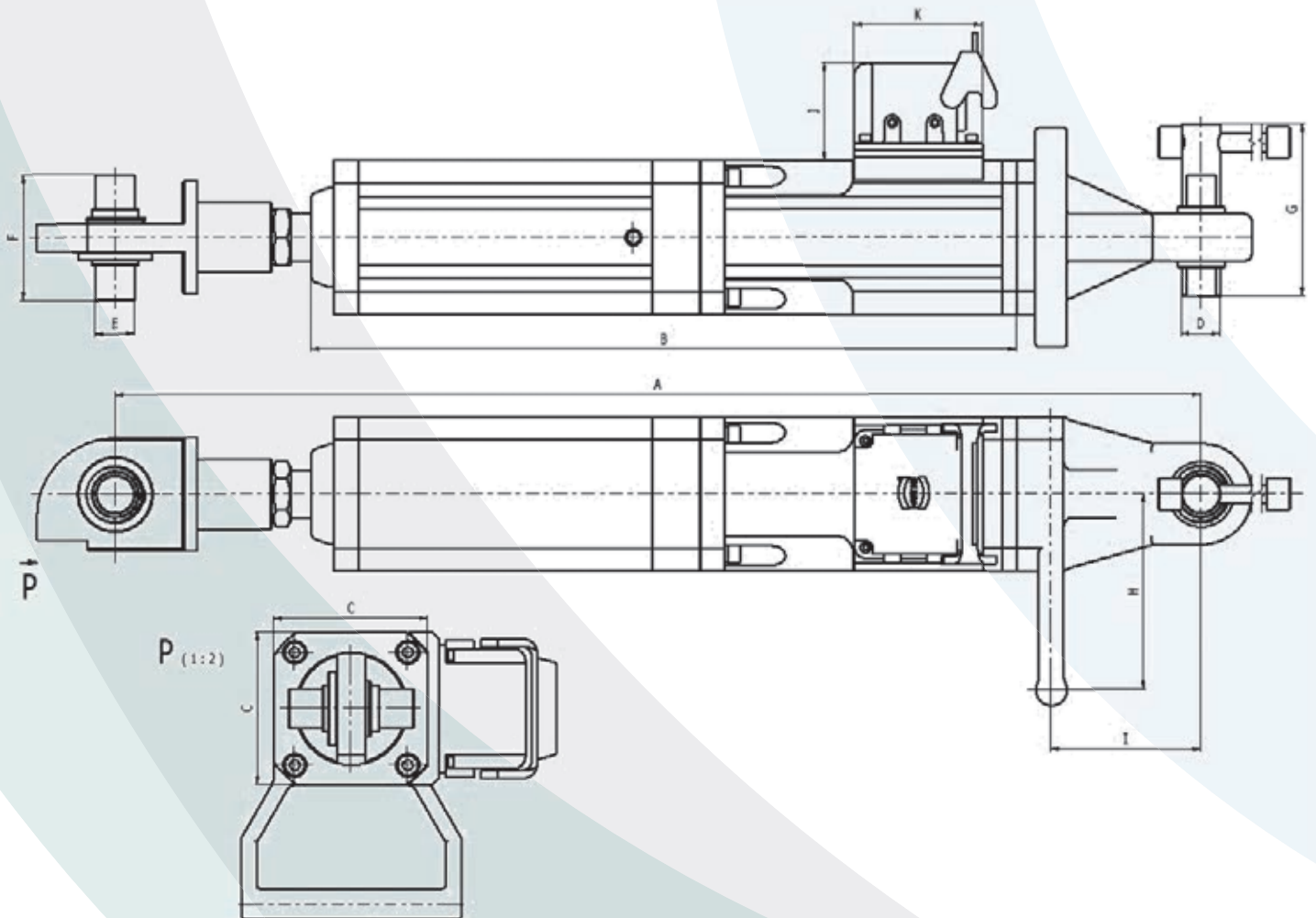
Basic information



- 1 – Upper swinging bolt *
- 2 – Rod
- 3 – Protection against rotation of the rod
- 4 – Ball screw
- 5 – Harting connector
- 6 – Lower swinging bolt *
- 7 – Motor
- 8 – Resolver / absolute encoder
- 9 – Integrated flange with handle *

* this part can be modified depending on customer's request

Basic composition



Dimension	mm	Dimension	mm
A	692,5	G	110
B	450	H	125
C	98	I	95,5
D	25	J	62
E	25	K	82
F	80		

Dimensions

Stopper rod drive parameters

Continuos Force Rating	F_n	3 756	N
Peak Force	F_p	10 000	N
Nominal speed	v	500	mm/s
Minimal force in hand mode *		130	N
Stroke		115	mm
Protection		IP 64	
Temperature range		min -20	°C
		max 70	°C
Weight		10,5	Kg

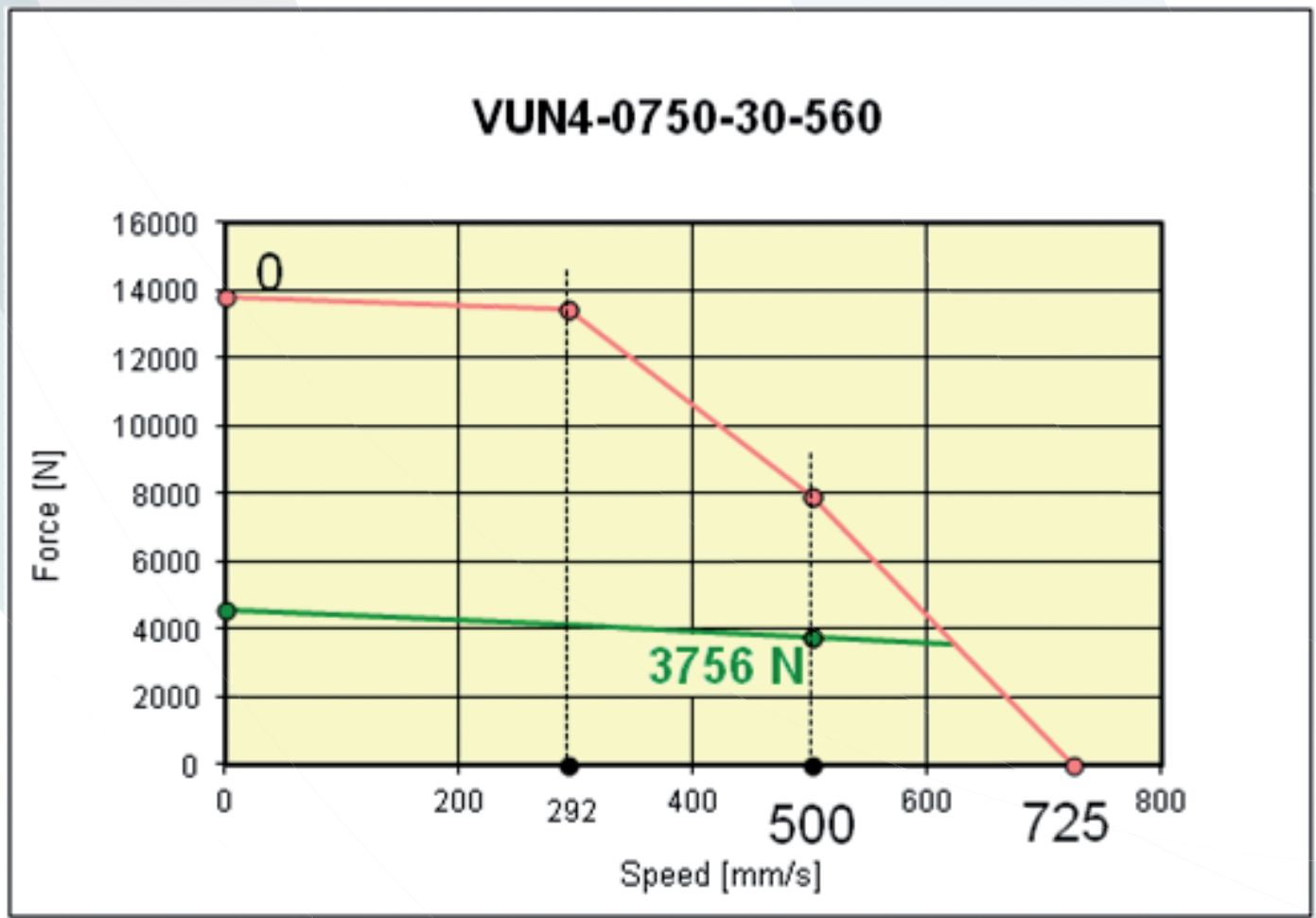
Motor parameters



Name	Symbol	Value	Unit
Rated Speed	n_n	3000	min ⁻¹
DC Bus Voltage	U_{dc}	560	V
Nominal AC Voltage	U_n	380	V
Rated Motor Voltage	U_m	275	V
Rated Torque	M_n	6,1	Nm
Rated AC Current	I_n	5,14	A
Stall Torque	M_o	7,5	Nm
Stall AC Current	I_o	5,21	A
Peak Torque	M_{max}	22,5	Nm
Peak Current	I_{max}	22,35	A
No Load Speed	n_o	4350	min ⁻¹
Torque at I_{max}/U_n	M_z	22	Nm
Speed at I_{max}/U_n	n_z	1920	min ⁻¹
Max. Torque at n_n	M_x	13,6	Nm

*Force necessary for overcoming of friction in the drive

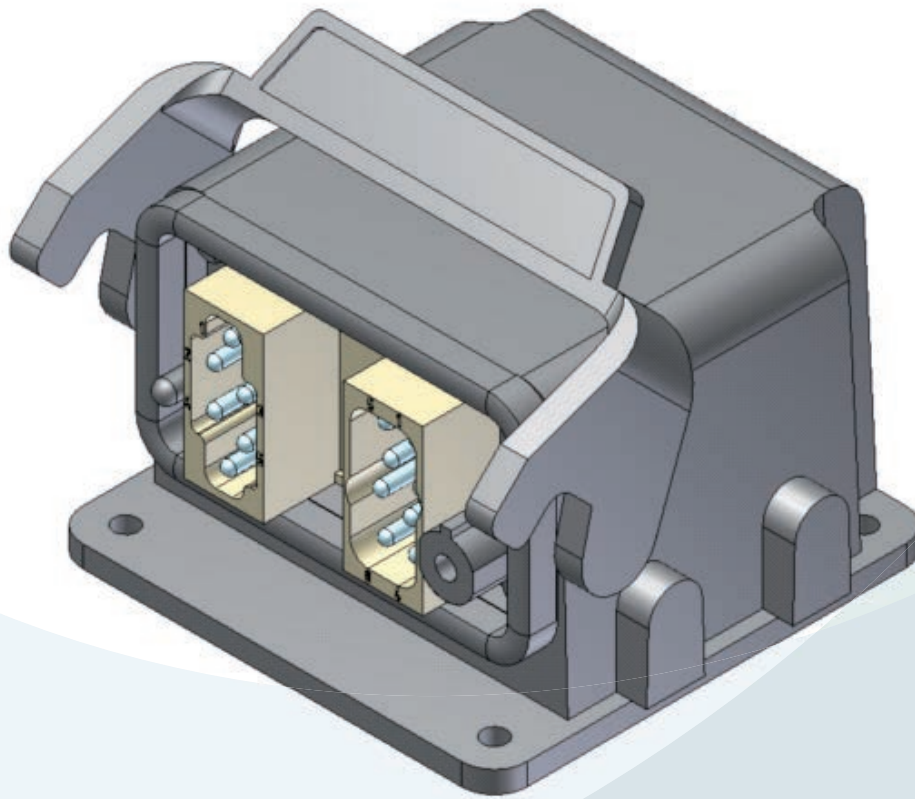
Rated data

Force / speed characteristics



-  Rated data
-  Peak data

Rated data



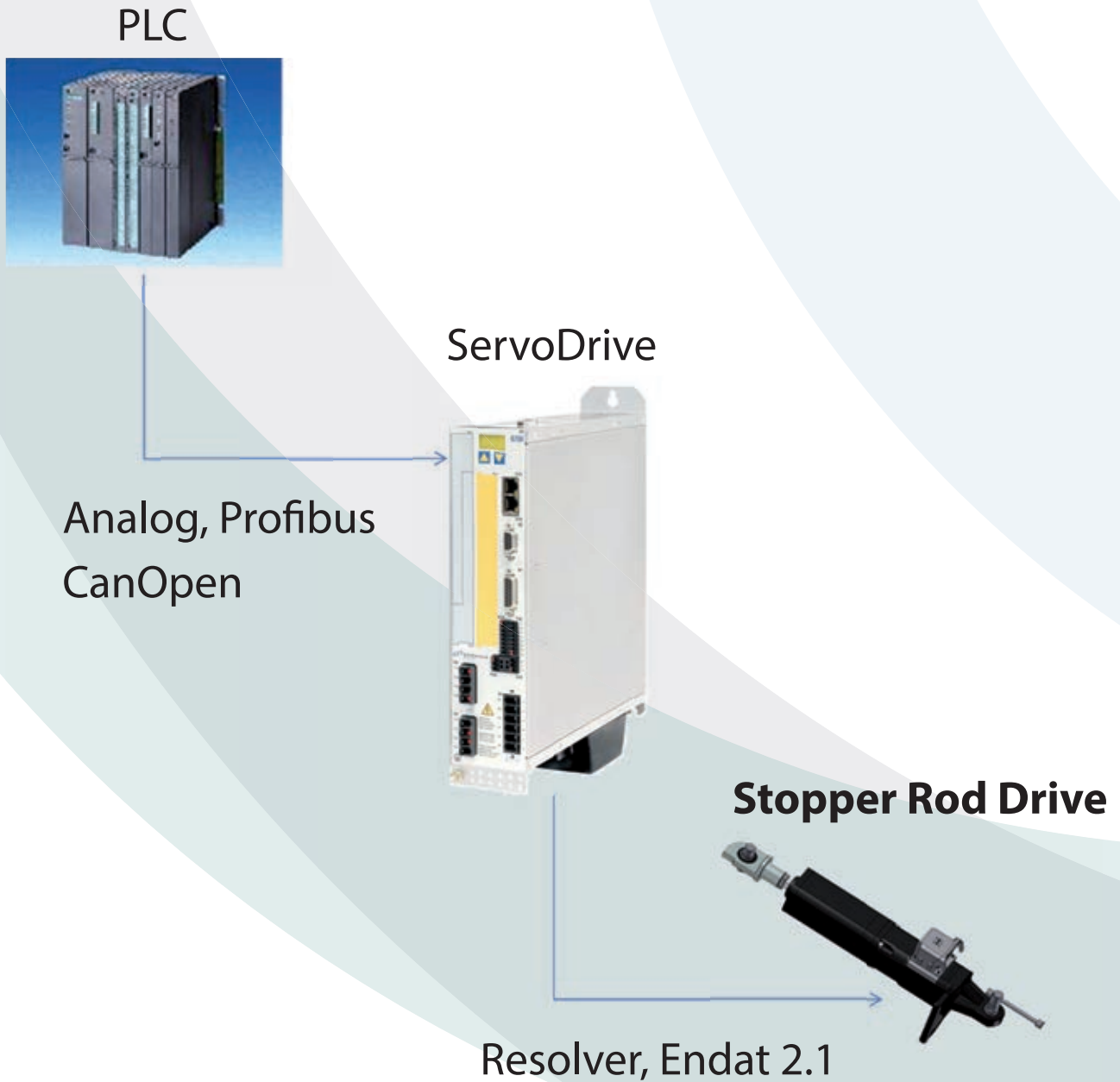
The stopper rod drive is available in two variants of feedback:

Resolver (relative encoder) – cheap, robust and easy to set.

Endat 2.1 – absolute position, no need calibrate after disconnection from servodrive.

Feedback

Example of connection with S700 Danaher Servodrive



Connection example