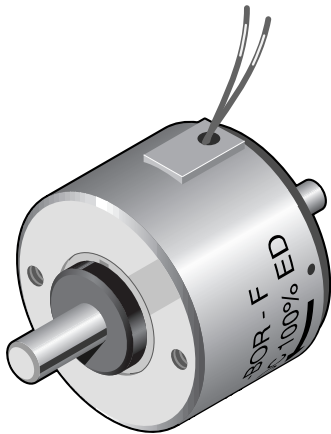


D2 Series Rotary Solenoid

Voltage rating		24					205					V DC	Voltage rating	
ED* LK	%	100	48	27	14	4,4	100	50	18	8	5	%	ED* LK	
Current rating	mA	160	325	550	1.020	3.040	15	38	95	190	308	mA	Current rating	
Nominal resistance	Ω	151	73,8	43,8	23,5	7,9	13.028	5.356	2.146	1.077	665	Ω	Nominal resistance	
D 22, 25°	MA Ncm	0,30	0,68	1,00	1,50	2,85	0,23	0,56	1,10	1,90	2,50	Ncm	MA	D 22, 25°
	ME Ncm	0,53	1,02	1,40	1,85	2,75	0,41	0,92	1,50	2,20	2,60	Ncm	ME	
D 23, 35°	MA Ncm	0,25	0,55	0,84	1,25	2,50	0,20	0,45	0,94	1,60	2,20	Ncm	MA	D 23, 35°
	ME Ncm	0,48	0,95	1,25	1,65	2,50	0,37	0,82	1,38	1,95	2,40	Ncm	ME	
D 24, 45°	MA Ncm	0,18	0,40	0,66	1,04	2,15	0,14	0,34	0,75	1,30	1,90	Ncm	MA	D 24, 45°
	ME Ncm	0,44	0,85	1,15	1,50	2,25	0,35	0,75	1,23	1,75	2,10	Ncm	ME	
D 26, 65°	MA Ncm	0,11	0,30	0,50	0,83	1,85	0,08	0,24	0,57	1,10	1,60	Ncm	MA	D 26, 65°
	ME Ncm	0,40	0,75	1,00	1,30	1,95	0,31	0,66	1,08	1,50	1,75	Ncm	ME	
D 29, 95°	MA Ncm	0,06	0,17	0,32	0,52	1,35	0,04	0,13	0,34	0,70	1,10	Ncm	MA	D 29, 95°
	ME Ncm	0,35	0,65	0,90	1,10	1,30	0,26	0,60	0,95	1,20	1,30	Ncm	ME	

* By using a cooling surface $\geq 100\text{ cm}^2$, the permissible duty cycle can be extended up to 1.7x normal rating

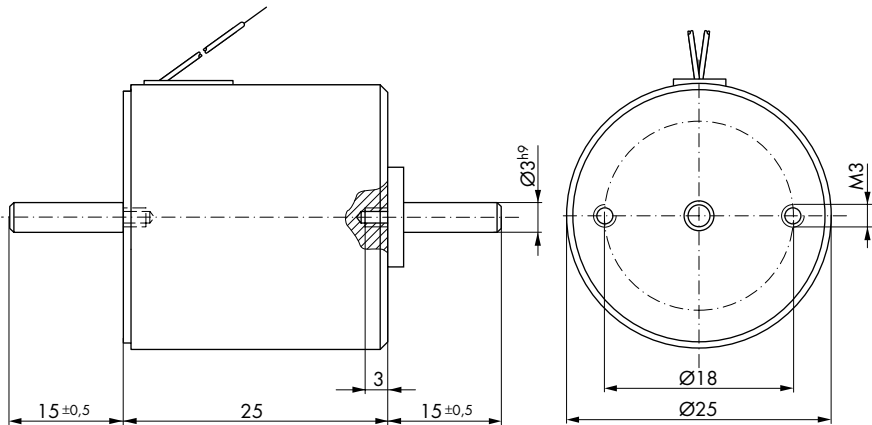
MA = Initial torque
ME = End torque (5° before end of rotary angle)



Coil terminals: - Flying leads
- Solder terminal box (suits push-on connector A 2.8 x 0.5 DIN 46247)

Weight: appr. 75 g
Dyn. moment of inertia (rotational mass): appr. $0.1 \cdot 10^{-6}\text{ kg m}^2$
Time constant: appr. 2–6 ms

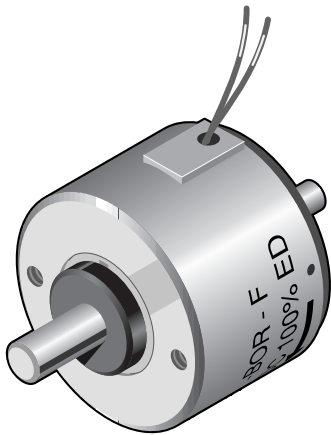
All solenoids with MA > 0.18 Ncm are available with spring return, with a rating of MR = 0.15 Ncm approximately.



D2 Series Ordering Information

	D	2	3	-ROR-	- F -	24 V DC	100 % ED	Order specifications
	D							Rotary solenoids
		2						
								Angular travel
			2					25°
			3					35°
			4					45°
			6					65°
			9					95°
				-ROR-				Shaft and rotation options
								Coil terminals
					F			Flying leads (20 cm standard length)
					M			Solder terminal box ²⁾
								Nominal voltage
						24		Standard voltage
						205		(connected to 230 V AC with Si-bridge rectifier)
							100 % ED	Perm. duty cycle under air cooled conditions (LK)

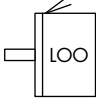
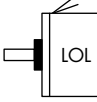
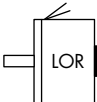
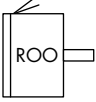
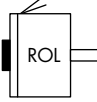
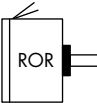
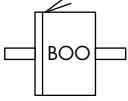
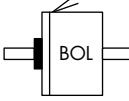
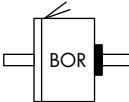
2) Suits push-on connector A 2.8 x 1.5 DIN 46247.



Insulation class:
B (max. permissible temperature = 130 °C)

Test voltage:
2500 V (eff)
(D 2: 1500 eff)

D2 Series Shaft & Rotation Options

Normal	Spring return
	
	
	
	
	
	

Shaft designs

The following types of rotary solenoids are available. Resulting in the following abbreviations for ordering:

- 1. letter**
Direction of rotation (facing the output shaft)
L anti-clockwise rotation
R clockwise rotation
B shaft extensions both ends
- 2. letter**
Centering shoulder
O standard type without mounting ring
R optional
L optional

- 3. letter**
Return spring – the torque exerted by the spring is to be subtracted from the torque values given in the data sheets
L on the anti-clockwise shaft end
R on the clockwise shaft end
O no return spring fitted
B both sides

Example 1
anti-clockwise rotation, no return spring, standard shaft length
LOO -

Example 2
shaft extensions on both ends, return spring on anti-clockwise rotation end
BOL -

Spring return arrangement (with protection cap)

Mounting ring

Dimensions in mm	Solenoid size
	D2
Ø D	12,0
L _F	5,0
Ø D _{h10}	10,0
L _Z	1,8

