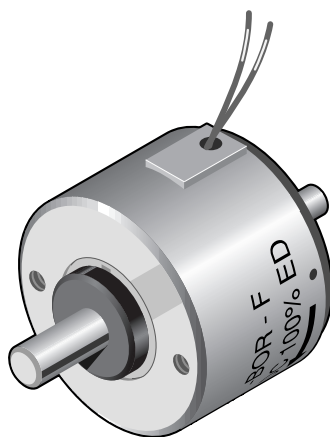


D2 Series Rotary Solenoid

Voltage rating	V DC	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

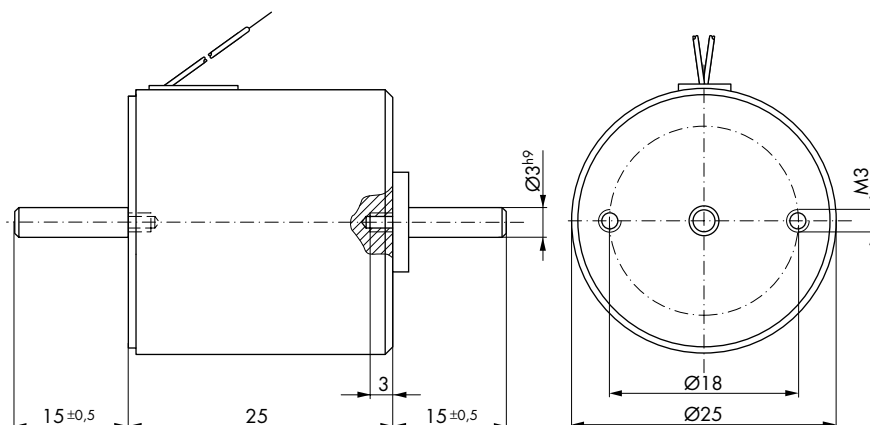
MA = Initial torque
ME = End torque (5° before end of rotary angle)



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.



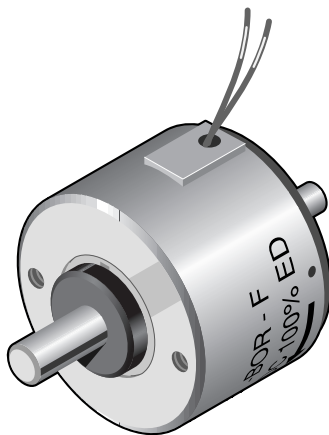
Impulse Automation Limited
United Kingdom
Company Registration 665193

Information shown in these data sheets are for guidance purposes only, no liability is accepted for any errors or omissions. The designer or user is solely responsible for the safe and proper use of these parts, assemblies or equipment described.

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

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

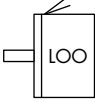
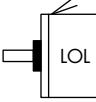
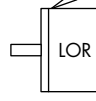
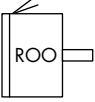
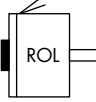
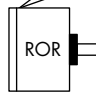
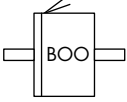
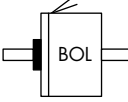
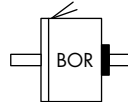
anti-clockwise rotation, no return spring, standard shaft length
LOO -

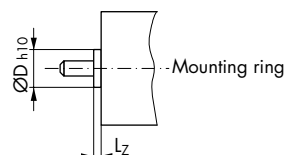
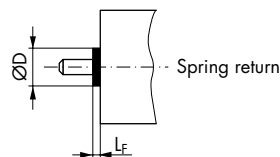
Example 2

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

Spring return arrangement
(with protection cap)

Mounting ring

Normal	Spring return
	
	
	
	
	
	



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

Impulse Automation Limited
United Kingdom
Company Registration 665193

Information shown in these data sheets are for guidance purposes only, no liability is accepted for any errors or omissions.
The designer or user is solely responsible for the safe and proper use of these parts, assemblies or equipment described.