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NAFSA - ERC SERIES

ERC50-15/C
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- Pull / push design, with optional spring
- Class B winding (130ºC)
- Duty cycle 0 to 100%
- Up to 191N force
- Customer specific version available

PRODUCT DESCRIPTION

The ERC series of electromagnets are a double acting push/pull solenoid.

When an electrical connection is made to to coil, the plunger moves through the magnetic field and pushes the shaft along its designated stroke.

Upon removing the electrical connection, the shaft remains in position and is returned with reverse polarity or optional return spring.

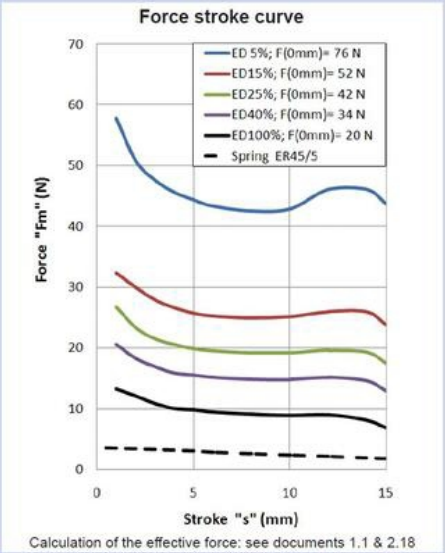
Many different standard versions are available (please see catalogue PDF below) and application specific designs can be provided for larger volume requirements.

TECHNICAL DATA

Absorbed power @ 20°C, 100% duty	14 W
Absorbed power @ 20°C, 15% duty	93 W
Absorbed power @ 20°C, 25% duty	56 W
Absorbed power @ 20°C, 40% duty	35 W
Absorbed power @ 20°C, 5% duty	280 W
Beginning of stroke force at 100% duty	68 N
Beginning of stroke force at 15% duty	23 N
Beginning of stroke force at 25% duty	17 N
Beginning of stroke force at 40% duty	128 N
Beginning of stroke force at 5% duty	43 N
End of stroke force at 100% duty	20 N
End of stroke force at 15% duty	52 N

End of stroke force at 25% duty	42 N
End of stroke force at 40% duty	34 N
End of stroke force at 5% duty	76 N
Function	pull/push
Insulation class	B(130ºC)
IP class	IP00
Spring return	Yes
Stroke	15 mm
Total weight	335 g
Voltage ac max	230 V
Voltage ac min	110 V
Voltage dc max	205 V
Voltage dc min	6 V
Voltage type	AC, DC

Duty-cycle ED(%)	100	40	25	15	5
Abs. Power at 20ºC (W)	14	35	56	93	280
Minimum force (N)	6.8	12.8	17	23	43
Max time under voltage(s)	∞	60	38	23	8
Plunger weight (g)	70				
Solenoid weight (g)	335				



Calculation of the effective force: see documents 1.1 & 2.18

