GFC with spring-return attachments

Type GFC... R RA RB RC RD

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Open frame solenoid type GFC with with spring return, shotbolt lock and fork end attachments

Spring attachment, fork end and shotbolt end.

For each of six sizes of pull-and-push Type G FC:

Spring-return assembly spring only (R)
Fork end attachment – energise to pull (RA)
energise to push (RB)
Shotbolt attachment – energise to lock (RC)
spring to lock (RD)

Construction

- stainless steel conical return spring
- High endurance, maintenance free PTFE bearings supporting armature and push-rod
- Coil insulation Class F for voltages up to 250V D.C. – external rectifier for AC supplies available separately

GFC X 040 with spring and fork end attachment

Applications

- General purpose solenoids for service in:

  - robotics
  - automation
  - textile machines
  - lock mechanisms
  - office machines
  - packaging machines
  - coin sorting
  - medical and general automation

Standards

- solenoid designed and tested to VDE 0580
- ISO 9001: 2008

GFC X		025		030		035	
Duty rating* continuous (100%)		100%		100%		100%	
Power consumption P_{20}	W	6.3		7		10	
Stroke, rated (maximum)	mm	0	4 (8)	0	5 (9)	0	7 (11)
Magnetic force F_M (without spring)	N	7	3	11	4	17	8
Spring force	N	3	2	4	2	6	4
GFC X		**040**		**050**		**060**	
Duty rating* continuous (100%)		100%		100%		100%	
Power consumption P_{20}	W	14		20		26	
Stroke, rated (maximum)	mm	0	8 (12)	0	10 (15)	0	12 (20)
Magnetic force F_M (without spring)	N	41	12	71	21	90	33
Spring force	N	12	5	18	9	27	16

*** other duty ratings on request - refer to data sheet GFC**

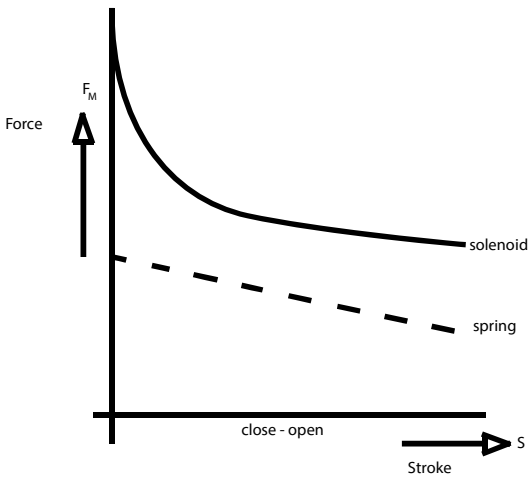
Performance Table
The Performance Table terms are fully defined and explained in our Technical Bulletin G XX and in VDE 0580/35.

The Magnetic Force
(F_M) listed is for the hot condition at 90% of the rated voltage, and will increase by approximately 20% at the rated voltage. The Magnetic Force does not include the Spring Force, which is listed separately; the forces given are those for continuous (100%) duty.

Stroke
By adjusting the lock-nuts, the stroke can be increased: marginally for attachments RB and RC, and up to the maximum shown in brackets for assemblies RA and RD – though with a reduction of the Magnetic Force.

For full details of solenoid performance refer to data sheet GFC.

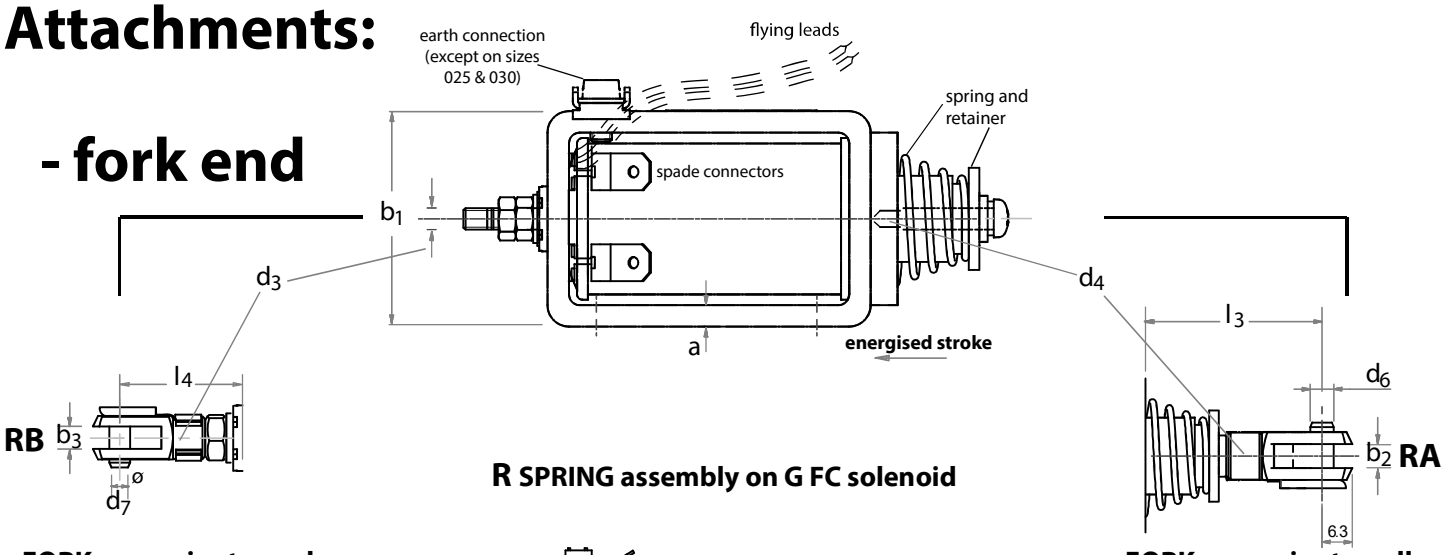
Supply Voltages
The standard supply voltages are: 12V, 24 V and 205 V (for rectified 230 V AC).



Rectifier for AC supply

Attachments:

- fork end

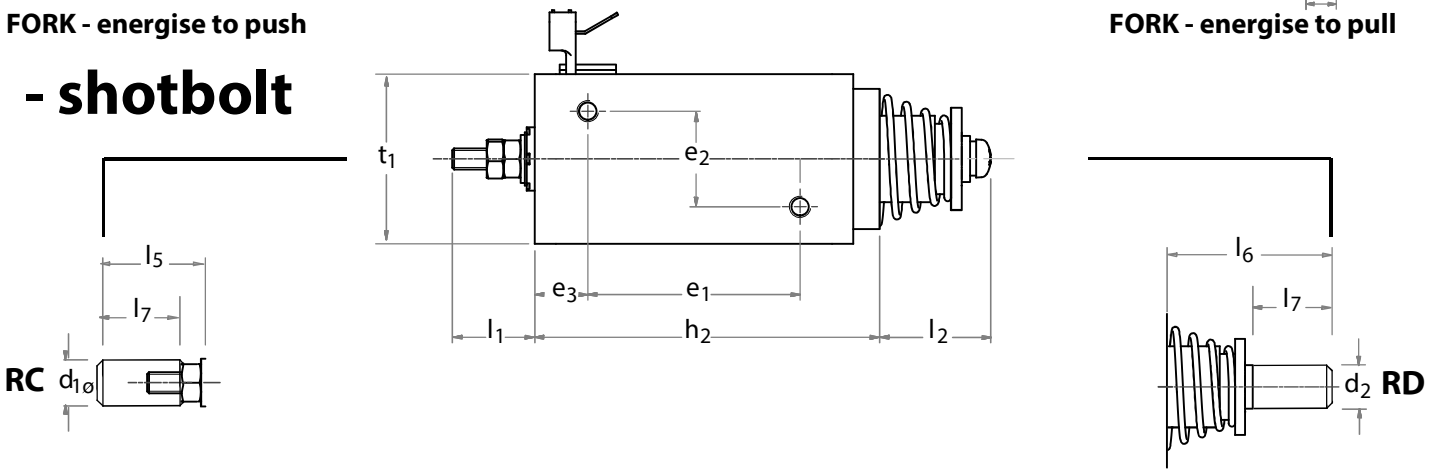


R SPRING assembly on G FC solenoid

FORK - energise to push

FORK - energise to pull

- shotbolt



SHOTBOLT - energise to lock

SHOTBOLT - spring to lock

Type		G FC					
Size		025	030	035	040	050	060
Dim.		Dimension (mm)					
Solenoid	a*	2	2.5	2	4	4	4
	b_1	25	30	35	40	50	60
	d_3	M3	M3	M3	M4	M5	M6
	d_4	M3	M4	M4	M5	M5	M6
	d_5+	M3	M3	M3	M4	M4	M5
	e_1	20	25	30	40	45	50
	e_2	12	14	18	18	28	32
	e_3	7.5	7.5	10	10	12.5	15
	h_2	39	45	55	65	76	88
	l_1	12	12	12	16	18	22
	l_2	13	16	18	20	30	33
	t_1	20	24	30	32	41	50
Shotbolt (C, D)	d_1	8	8	8	10	10	12
	d_2	8	8	10	10	10	12
	l_5	22	22	22	24	26	33
	l_6	25	28	31	31	41	48
	l_7	15	15	15	15	15	20
Fork end (A, B)	b_2	4	4	4	5	5	6
	b_3	4	4	4	4	5	6
	d_6	4	4	4	5	5	6
	d_7	4	4	4	4	5	6
	l_3	29	30	33	36	47	53
	l_4	23	23	23	25	31.5	37

Versions

Custom, special and modified versions include

- Large fork end attachment
- Nose and tail plates
- Attachments for switch operation

Contact our technical department for assistance and advice on other custom options.

Order Code	**G FC X**	**040**	**X 00**	**E - -**	**RD**
Solenoid Type					
Solenoid Size					
Spade connectors (B12) or free leads (E--)					
Attachment(s):	R - spring return assembly only RA - fork, pulling; spring return RB - fork, pushing; spring return RC - shotbolt, energise to lock RD - shotbolt, spring to lock				
Specify also:	Voltage (V) Duty Rating				

R, RA, RB, RC and RD Attachments (GFC 040).

E-- flying leads **B12- spade connector**

Need more information or advice?

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