

ELECTROMAGNETIC SOLENOIDS

Type GM-2

PUSH, PULL, DOUBLE AND PROPORTIONAL EXT. DIA. OF TUBE 13 MM

CHARACTERISTICS OF STANDARDIZED EXECUTIONS

- other executions are available on request operation: pulling on/off-code GM-23.., pushing on/off-code GM-20

on/off double, pulling and pushing-code GM-26.., proportional code GM-29

external 3/4"-16UNF internal externa internal standardised threads 1/2"-20UN M18x1,5 M13x1 (interface to the valve) 5/8"-18UN 1/2"-20UNF M18x1,5 1/2"-20UNF 3/4"-16UNF M13x1 M13x1 -other variants: on request M20x1,5

push rod options : see below

max dynamic pressure: up 1- ON/OFF SOLENOIDS up to 250 and 350 bar

stroke: on request

curves of force-stroke: diagrams refer to supply 0,66 Vnom. and stroke back from end.

Note: curves can be modified according to operating characteristics requested by the valve. Versions GM-2...BRO differ from versions GM-2...TIG for a different magnetic structure of tube 2-PROPORTIONAL SOLENOIDS - see also tab.3200

ominal stroke: 1,5 mm - extra strokes on request

air bleed-off valve or manual override: available on request - see tab. 3200

general notes: recommended supply is by closed-loop current with dither or PWM; this supply could produce undesired vibrations on regulation, that are easily damped by providing solenoid plunger with throttling orifices. Coils are plastic encapsulated, ED 100%; they are preferably designed with low resistance and inductance for the best dynamic performance of system.

curves of force-stroke: diagrams refer to different supply of current; curve 1 is with stroke back from end, curve 2 with stroke forward. Force-stroke curves can be modified on request

STANDARD COILS - ED 100 % - see tables 5020 & 5025

- other voltages, electric powers, insulation class, electric terminals, ED : on request all coils can be supplied with transient suppressor Z-diode moulded-in

code of (1)	electric	supply voltage - V (+/- 10%)	nominal	insulation				
coil	connection	available for all executions	power (3)	class				
C30A***	AMP-Junior	DC: 12; 24; 48 & 21,6; 43,2; 98; 196 (2)	18W	F				
C30D***	DIN43650	AC 50 Hz: 24; 42; 48; 110; 220; 380	28 VA	F				
C30C***	flying leads	AC 60 Hz: 24;110; 220	28 VA	F				
C36A***	AMP-Junior							
C36D***	DIN43650	DC: 12; 24 & 21,6 ; 98; 196 (2)	22 W	н				
C36C***	flying leads	AC 50 Hz: 110; 220	32 VA	н				
C36K***	Kostal							
(1) *** code must be completed by voltage supply and requested power								

(2) voltages normally provided for AC supply at 24, 48, 110, 220 with rectifier

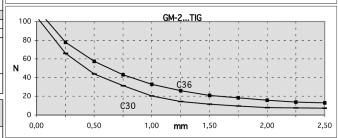
(3) holding value at cold coil; inrush power for AC coils is about 3,5 time the holding value

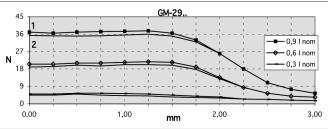
ambient temperature: -30° C to +50° C; max delta T of wiring: 125 °C

Technical data are given for information only, without commitment; before ordering ask for

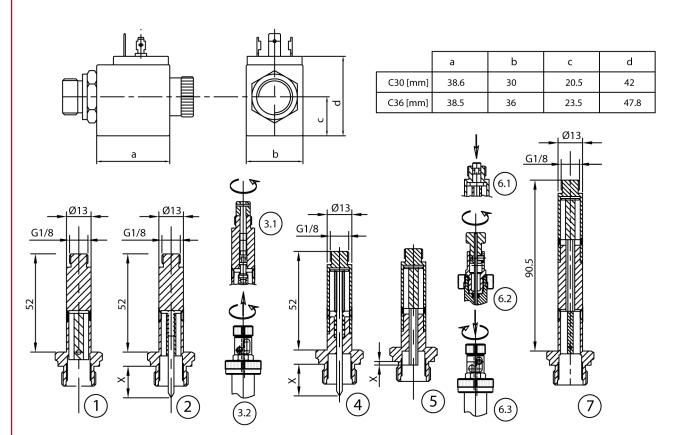
onfirmation of technical data, in particular on dimensions, performance, pressur

GM-2... BRO 100 80 60 C36 20 C30 2.00 0.00 0.50 1,00 1,50 2.50 mm





for all options of plungers, manual overrides and nuts for coils see tab.3100 and 3200



EXEC	UTIC	DNS - c	lim	ensic	ns	in	mn	า
ita		abarra	in	root		ai+		10

(coil deenergized) spring : on request dimension X: on request 1- pulling, plunger arranged for con2- pulling, 4- pushing - with conic end push rod 55-60 Hrc manual override-pulling versions: 3.1 screwed type, screw off knob to operate plunger; screw-in to release. 3.2 twist & lock device, to operate the device rotate by 90° knob and release; push and rotate by 90 ° to exclude the device

5- pushing, on-off and proportional, loose push rod manual override-pushing versions: 6.1 operation by pushing knob or 6.2 by screwing them or 6.3 by pushing and twisting by 90° for locking in position 7- double, push-pull, plunger arranged for connection to spool