

Type GM-4

PUSH, PULL, DOUBLE AND PROPORTIONAL EXT. DIA. OF TUBE 16 MM

ELECTROMAGNETIC SOLENOIDS

CHARACTERISTICS OF STANDARDIZED EXECUTIONS - other executions are available on request					
operation: pulling on/off-code GM-43, pushing on/off-code GM-40 on/off double, pulling and pushing-code GM-46, proportional code GM-49					
standardised threads	external	internal	external	internal	
(interface to the valve)	3/4"-16UNF	1/2"-20UNF	M20x1,5	M14x1	
-other variants: on request	7/8"-14UNF	1/2"-20UNF	M22x1,5	M16x1	
max dynamic pressure: up to 250 and 350 bar			7/8"-14UNF	M16x1	
1- ON/OFF SOLENOIDS					

stroke: on request push rod options : see below manual override: available for all versions

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

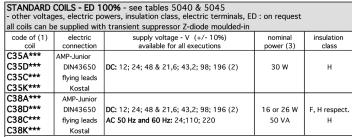
Note: curves can be modified according to operating characteristics requested by the valve **2-PROPORTIONAL SOLENOIDS** - see also tab.3200

nominal stroke: 2 mm - extra strokes on request

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

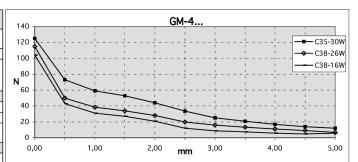
curves of force-stroke: diagrams refer to different supply of current; curve1 is with stroke back from end, curve2 with stroke forward. Force-stroke curves can be modified on request

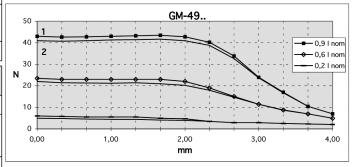


- (1) *** code must be completed by voltage supply and requested power (2) voltages normally provided for AC supply at 24, 48, 110, 220 with rectifier
- (3) holding value at cold coil; inrush power for AC coils is about 3,5 time the holding value

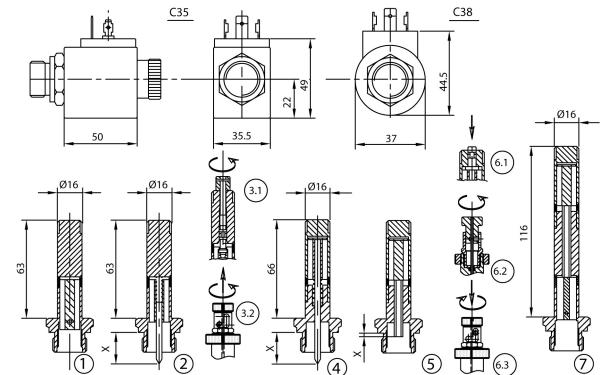
ambient temperature: -30° C to +50° C; max delta T of wiring: 125 °C

Technical data are given for information only, without commitment; before ordering ask for confirmation of technical data, in particular on dimensions, performance, pressure.





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



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	EXECUTIONS - dimensions in mm	2- pulling, 4- pushing - with conic end push rod 55-60 Hrc	5- pushing, on-off and proportional, loose push rod
ı	units are shown in rest position (coil deenergized)	manual override-pulling versions: 3.1 screwed type, screw off knob to operate	manual override-pushing versions: 6.1 operation by pushing knob or 6.2 by
ı	dimension X : on request spring : on request	plunger; screw-in to release. 3.2 twist & lock device, to operate the device	screwing them or 6.3 by pushing and twisting by 90° for locking in position
ı	1- pulling, plunger arranged for connection to spool	rotate by 90° knob and release; push and rotate by 90° to exclude the device	7- double, push-pull, plunger arranged for connection to spool