

- > For 2/2-, 3/2-, 5/2- and 5/3-way valves
- > Suited for outdoor use under critical environment conditions
- > For high and low ambient temperatures
- > Housing material: Plastic PPS
- > Easy installation of the solenoid
- > Compact design
- > Userfriendly terminal compartment with screwless terminals for wire cross-section 0,5 to 4 mm²
- > Type of protection: Ex ia



Technical features

EC-type examination certificate:
PTB 07 ATEX 2019

Ex-Approval international:
IECEx PTB 07.0017

Duty cycle:
100% ED

Relative humidity of the air:
max. 80%

Coil insulation::
Thermic class H

Degree of protection (EN 60529):
IP66

Weight:
620g

Temperature:
See table

Material:
Plastic PPS

Model overview solenoids

Core tube		Nominal resistance	Minimum switching current	Required terminal voltage	Required terminal voltage	Ex-protection (ATEX-category)	Ambient / media temperature (°C)
Ø 13 mm	Ø 16 mm	R _{K20}	I _{min}	U _{KI} at tamb = 20°C	U _{KI} at tamb = 60°C		
2050	2055	200 Ω	33 mA	6,6 V	7,7 V		
2051	2056	391 Ω	24 mA	9,3 V	10,9 V	II 2 G Ex ia IIC T4/T6 Gb II 2 D Ex ia IIIC T80°C Db II 2 D Ex ia IIIC T100°C Db	T4: -40 ... +80
2052	2057	736 Ω	17 mA	12,5 V	14,5 V		T6: -40 ... +60
2053	2058	1220 Ω	13 mA	15,9 V	18,5 V		-40 ... +60 -40 ... +80

Cable gland (for Kabel Ø 5 ... 10 mm) is in scope of delivery.

When selecting an intrinsically safe power supply, the permissible maximum values according to the Certificate of Conformity should be taken into account.

Ui = 45 V li = 500 mA according to Tab. A. 1, EN 60079-11

Pi = 2,0 W, Li and Ci can be ignored.

The mentioned solenoids are among others compatible with the following Valve series.

Solenoid	Valve Series
2050/2051/2052/2053	97105, 98025
2055/2056/2057/2058	2401070

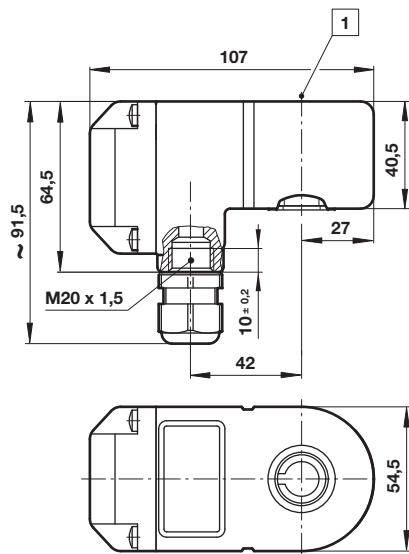
Item numbers for international approvals

Country/Approvals	Code
Europe/ATEX	Standard
International/IECEx	Standard
China/NEPSI	-01
Brasil/INMETRO	-02
Korea/KOSHA	-03
Russia, Kazakhstan & Belarus /TR-CU 012	-04
India/CCOE	Standard
Taiwan/TRI	Standard

Example: 0000000205000000-03

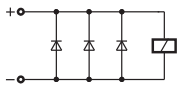
(Solenoid: 2050; Approval: KOSHA)

Dimensions - Solenoid

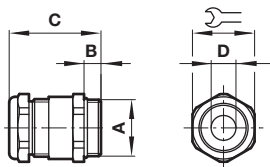


1 Ø 13 (with spacer tube)

Circuit diagrams



Cable gland



Warning

These products are intended for use in industrial compressed air systems only. Do not use these products where pressures and temperatures can exceed those listed under »**Technical features/data**«.

Before using these products with fluids other than those specified, for non-industrial applications, life-support systems or other applications not within published specifications, consult IMI Precision Engineering, Norgren GmbH.

Through misuse, age, or malfunction, components used in fluid power systems can fail in various modes. The system designer is warned to consider the failure modes of all component parts used in fluid power systems and to provide adequate safeguards to prevent personal injury or damage to equipment in the event of such failure.

System designers must provide a warning to end users in the system instructional manual if protection against a failure mode cannot be adequately provided.

System designers and end users are cautioned to review specific warnings found in instruction sheets packed and shipped with these products.