



# Operating instructions

## CZ1725 Series

### Breathing, drainage valve



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## Purpose of these instructions

- ◎ Working in hazardous areas, the safety of personnel and plant depends on complying with all relevant safety regulations.
- ◎ Assembly and maintenance staff working on installations therefore have a particular responsibility. They require precise knowledge of the applicable standards and regulations.
- ◎ These instructions give a brief summary of the most important safety measures. It supplements the corresponding regulations which the staff responsible must study.
- ◎ The CZ1725/28 breathing, and drainage valve has been subjected to overpressure test with 6Mpa and duration is 10s.



## SAFETY INSTRUCTIONS

- ◎ Explosion-proof breathing, drainage valve is suitable for use in hazardous areas, zones 1 and 2.
- ◎ This series of Explosion-proof breathing, drainage valve should be used under the following atmospheric condition:  
The pressure is 80kPa(0.8bar)~110kPa(1.1bar)  
The volume ratio of standard oxygen content is 21% air.
- ◎ Use the Explosion-proof breathing, drainage valve only for its intended purpose.
- ◎ Incorrect or impermissible use or non-compliance with these instructions invalidates our warranty provision.
- ◎ Any changes to the explosion performance of device impairing are not permitted.
- ◎ Use the Explosion-proof breathing, drainage valves only if they are clean and undamaged.
- ◎ Ny damage can invalidate the Ex-protection.
- ◎ Observe the following during installation and operation:
  - National safety regulations;
  - National accident prevention regulations;
  - National installation regulations(e.g. IEC 60079-14);
  - Generally recognized technical regulations;
  - Safety guidelines in these operating instructions;
  - Characteristic values given on the Explosion-proof breathing, drainage valves.
  - Any damage can invalidate the Ex-protection.

## Conformity to standards

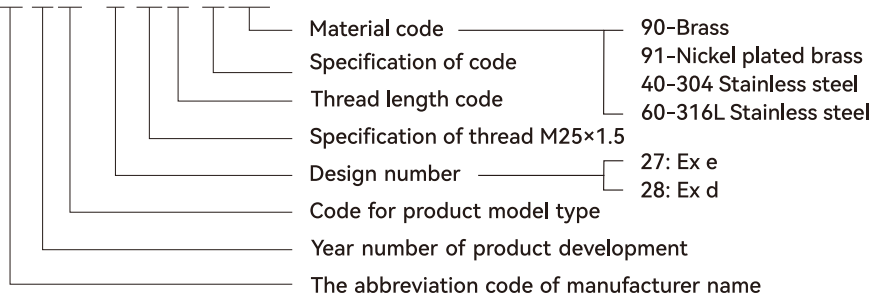
This series of cExplosion-proof breathing, drainage valve is designed and manufactured according to standard of ISO 9001.

This series of cExplosion-proof breathing, drainage valve complies with the following standards:

IEC 60079-0: 2017	EN IEC 60079-0: 2018
IEC 60079-1: 2014	EN 60079-1: 2014
IEC 60079-7: 2015	EN IEC 60079-7: 2015+A11:2018
IEC 60079-31: 2013	EN 60079-31: 2014

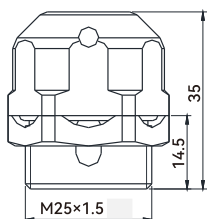
## Model and implication

CZ 1725 / □ -2515-01□□

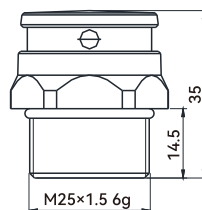
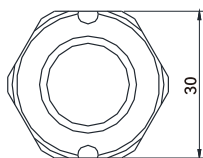


## Technical data

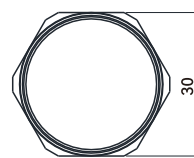
- ◎ Ex-mark: CZ1725/27: Ex eb IIC Gb / Ex tb IIIC Db;  
 II 2 G D Ex eb IIC Gb / Ex tb IIIC Db  
 CZ1725/28: Ex db IIC Gb / Ex tb IIIC Db;  
 II 2 G D Ex db IIC Gb / Ex tb IIIC Db
- ◎ Operating temperature: -60°C to +100°C
- ◎ Degree of protection (It depends on the mounting position of product):  
 CZ1725/27: IP66 (For downward installation), IP64(For side installation)  
 CZ1725/28: IP66 (For downward installation), IP65(For side installation)
- ◎ The suggestion mounting screw down moment: 10Nm
- ◎ Outline dimensions



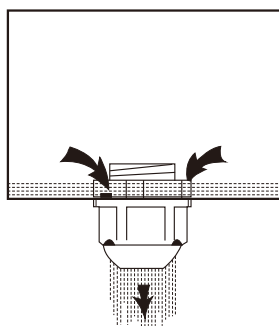
CZ1725/27



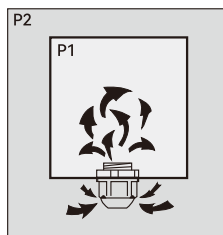
CZ1725/28



## Application



Water which has penetrated the equipment can flow away via the Explosion-proof breathing, drainage valve.



Temperature-dependent pressure differences between the interior of an enclosure (P1) and the external atmosphere (P2) are reliably equalized by means of the Explosion-proof breathing, drainage valve. Condensation build-up in the enclosure is thus kept to a minimum.

- ◎ Transport and storage in original packaging only. National safety and installations regulations and the generally accepted rules of engineering practice must be observed and operating this equipment.
- ◎ The suggested use and installation condition:
  - CZ1725/27: The thickness of the plastic flange with thread hole on the enclosure:  $5\text{mm} \leq t \leq 8\text{mm}$   
 The thickness of the metal flange with thread hole on the enclosure:  $3\text{mm} \leq t \leq 8\text{mm}$   
 The thickness of plastic flange without thread hole on the enclosure: 2.0–6.5mm  
 The thickness of metal flange without thread hole on the enclosure: 1.0–6.5mm  
 The diameter of the hole without thread on the enclosure:  $\Phi 25 \sim \Phi 25.5\text{mm}$ .
  - CZ1725/28: The CZ1725/28 breathing, and drainage has been subjected to non-transmission test with a flameproof enclosure which net volume is 338L. The non-transmission test is based on the maximum ambient temperature of the component is not greater than 60°C. The maximum external surface temperature rise is 20.2K (with 1.2 times safety factor). the maximum external surface temperature is 120.2°C corrected to the maximum service temperature (100°C) specified by the manufacturer.



Please consult the manufacturer about the proper installation operation.

## Installation

- ◎ Transport and storage in original packaging only. National safety and installations regulations and the generally accepted rules of engineering practice must be observed and operating this equipment.

## Commissioning

- ◎ Before running equipment fitted with Explosion-proof breathing, drainage valve, please ensure that:
  - The Explosion-proof breathing, drainage valve is not damaged;
  - The Explosion-proof breathing, drainage valve has already been tightened up to make sure the seal;

## Maintenance/repairs

- ◎ Observe the relevant national regulations for your county!
- ◎ Only original CZ ELECTRIC CO.,LTD. parts shall be used for carrying ou repairs.
- ◎ The following points must be checked during maintenance:
  - Compliance with permitted temperatures;
  - The Explosion-proof breathing, drainage valve if there is any crack;
  - Whether there is damage at the seal part;
  - The user shall inspect or replace the filter of breathing and drainage valve at regular intervals specified to prevent water to accumulate on the filter of breathing and drainage valve;
  - The flameproof threads of breathing and drainage valve are not intended to be repaired.



To ensure the breathing gland functions properly, clean the openings when dirty. (This is particualary important where temperatures vary widely or ambient conditions are humid or dusty.)

## Disposal/recycling

- ◎ The respective valid national regulations for waste disp-osal shall be observed when disposing of apparatus!
- ◎ We are pleased to answer any special questions you may have Please contact your nearest CZ service center.

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