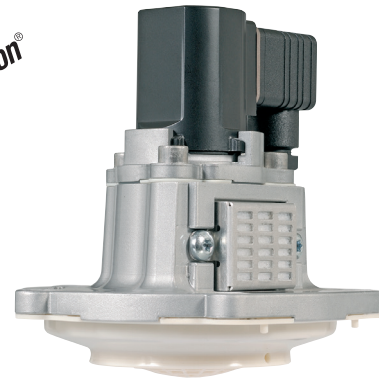


- > Port size: DN 20 ... 65, Tank Valve execution
- > High flow rate
- > All internal components captive
- > Clear, compact design
- > Solenoid interchangeable without tools (*Twist-on*)
- > Integrated silencer
- > One-piece diaphragm
- > International approvals

Twist-on


Technical features

Medium:

Air

Switching function:

Normally closed

Operation:

Solenoid pilot operated

Flow direction:

Determined

Mounting position:

Optional, preferably solenoid vertical on top

Port size:

DN 20, DN 25, DN 40, DN 50, DN 65

Operating pressure:

0,4 ... 8 bar (5,8 ... 116 psi)

Cleaning gas temperature:

-40 ... +85°C (-40 ... +185°F)

Ambient temperature:

-20 ... +85°C (-4 ... +185°F)

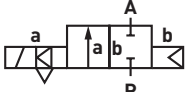
Material:

Body: Aluminium

Seat seal: TPE

Internal parts: TPU

Technical data – standard models

Symbol	Orifice (mm)	Valve length (mm)	Flow kv value *1) (m³/h)	Operating pressure (bar)	Weight (kg)	Model
	20/25	95	22	0,4 ... 8	0,32	8296454.8171.xxxxx
	40	135	59	0,4 ... 8	0,73	8296654.8171.xxxxx
	50/65	169	80	0,4 ... 8	1,15	8296754.8171.xxxxx

xxxxx Please insert voltage and frequency codes

*1) Cv-value (US) ≈ kv-value x 1,2

Option selector

8296***.8171.*****

Orifice	Substitute
20/25	4
40	6
50/65	7
Valve options	Substitute
Tank valve execution without valve housing	54
Dusty gas temperature version -10 ... +140°C (+14 ... +284°F) (DN 20 ... DN 40) Ambient temperature -10 ... +85°C (+14 ... 185°F) Cleaning gas temperature -10 ... +85°C (+14 ... 185°F) Seat seal ECO/FPM	60
One level, to 4,5 bar (65 psi) (only DN 40)	90

Frequeny	Substitute
See table frequency codes	xx
Voltage	Substitute
See table voltage codes	xxx

Further versions on request!

Standard solenoid systems

Voltage and Frequency Solenoid 8171 *1)					
Code Voltage	Code Frequency	Voltage	Frequency	Power consumption	
				Inrush	Holding
024	00	24 V d.c.	-	12 W	12 W
024	50	24 V a.c.	50 Hz	23 VA	16 VA
110	50	110 V a.c.	50 Hz	23 VA	16 VA
120	60	120 V a.c.	60 Hz	23 VA	16 VA
230	50	230 V a.c.	50 Hz	23 VA	16 VA

*1) _{US} coil only

Electrical details for all solenoid systems

Design	DIN VDE 0580
Voltage range	±10%
Duty cycle	100% ED
Protection class	EN 60529 IP65
Socket	Form A acc. to DIN EN 175301-803 (included)

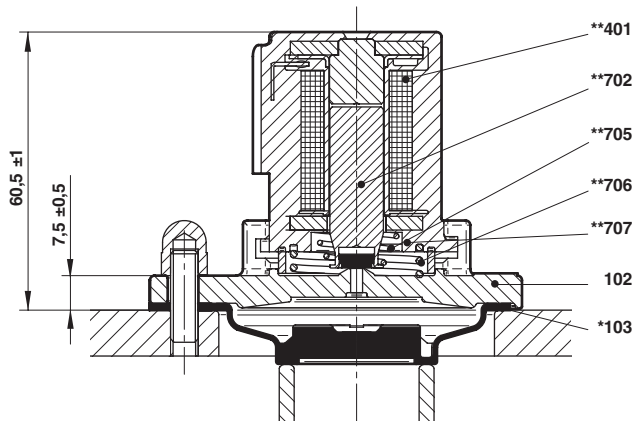
According to DIN VDE 0580 at a solenoid temperature of +20°C.
At operating state temperature the input power of a coil decreases by up to ca. 30% due to physical reasons.

Additional solenoid systems for hazardous areas

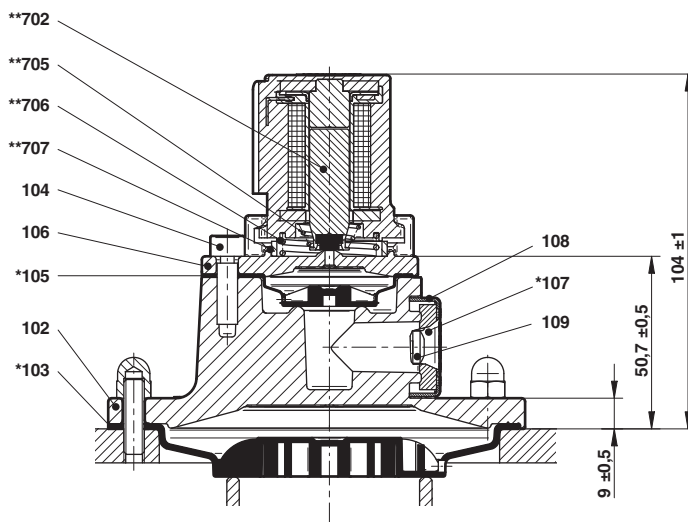
ATEX category	ATEX protection class	IP protection class	Solenoid	Standard voltages
II 2G II 2D	Ex eb mb IIC T6/T5/T4 Gb Ex tb IIIC T130°C Db	IP66	42xx	24 V d.c., 110 V a.c., 230 V a.c.
II 2G II 2G II 2D	Ex d mb IIC T6/T5/T4 Gb Ex e mb IIC T6/T5/T4 Gb Ex tb IIIC T130°C/T95°C/ T80°C Db	IP66	46xx	24 V d.c., 110 V a.c., 230 V a.c.
II 3G II 3D	Ex nA IIB T4 Gc Ex tc IIIC T130°C Dc	IP65	8176	24 V d.c., 110 V a.c., 230 V a.c.
II 2G II 2D	Ex eb mb IIC T4 Gb Ex mb tb IIIB T135°C Db	IP66	6176	24 V d.c., 110 V a.c., 230 V a.c.

Attention!

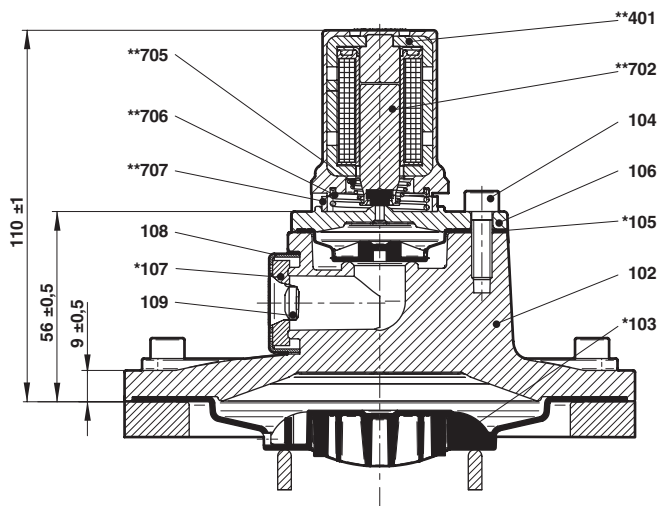
The conditions imposed on the Ex approvals lead to reduction of the permissible standard temperature ranges in the cases of explosion protected solenoids.

Section View
8296454


Nr.	Description
102	Valve cover
*103	Diaphragm
104	Socket head cap screw
*105	Diaphragm
106	Valve cover
*107	Silencer
108	Silencer housing
109	Socket head cap screw
**401	Solenoid
**702	Core
**705	Pressure spring
**706	Pressure spring
**707	Silencer
1400	Socket (included)

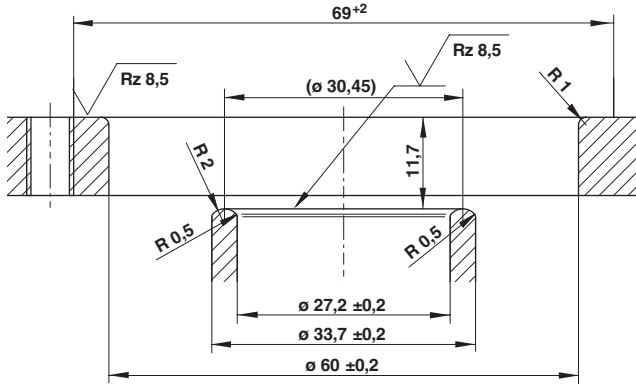
8296654


*/**These individual parts form a complete wearing unit.
 When ordering spare parts please state Cat. No. and Series No.
 ** Solenoid complete wearing unit, e.g. 8298000.8170.XXXXX for a solenoid 8170

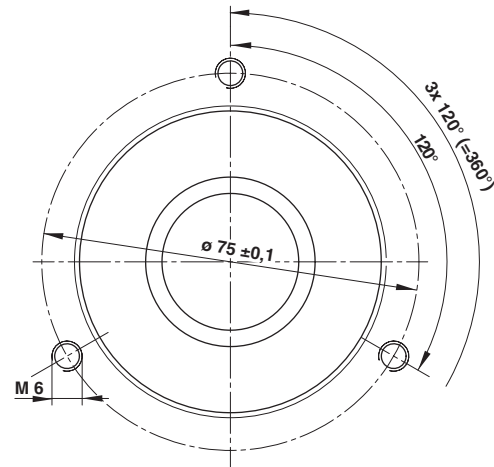
8296754


Dimensions

Valve Seat 8296454



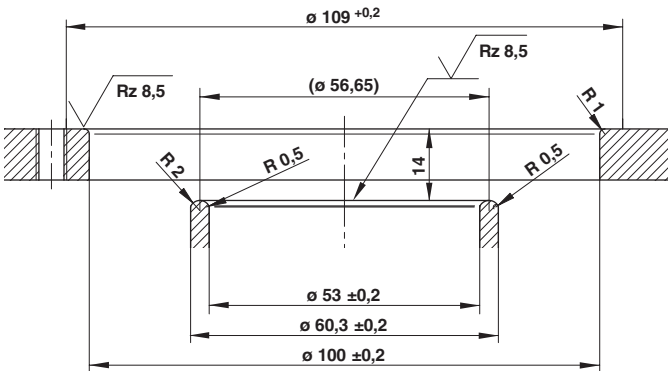
Hole Pattern 8296454



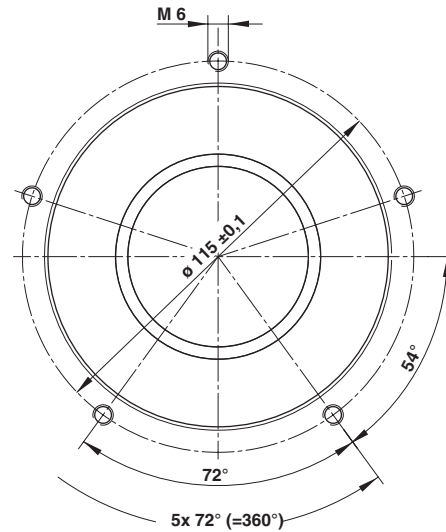
Dimensions in mm
Projection/First angle



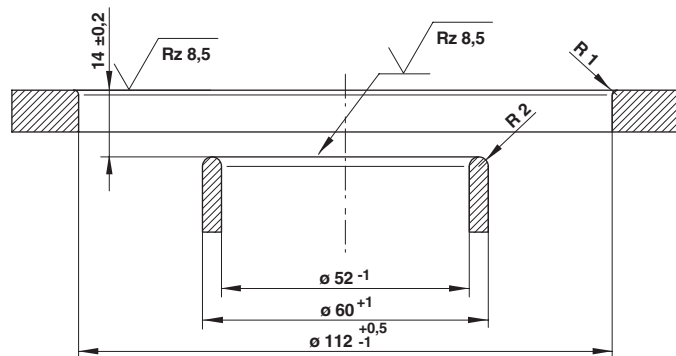
Valve Seat 8296654



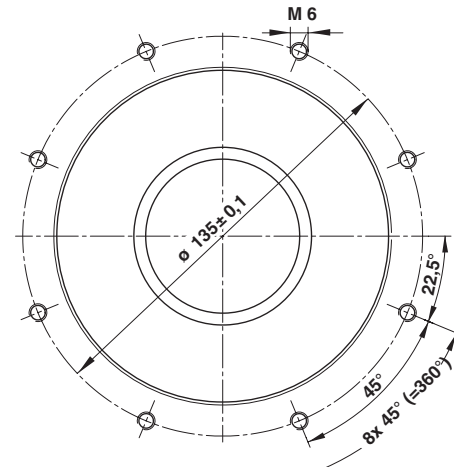
Hole Pattern 8296654



Valve Seat 8296754



Hole Pattern 8296754



Note to Pressure Equipment Directive (PED):

The valves of this series are according to Art. 4 § 3 of the Pressure Equipment Directive (PED) 2014/68/EU. This means interpretation and production are in accordance to engineers practice wellknown in the member countries. The CE-sign at the valve does not refer to the PED. Thus the declaration of conformity is not longer applicable for this directive.

Note to Electromagnetic Compatibility Guideline (EEC):

The valves shall be provided with an electrical circuit which ensures the limits of the harmonised standards EN 61000-6-3 and EN 61000-6-1 are observed, and hence the requirements of the Electromagnetic Compatibility Guideline (2014/30/EU) satisfied.

Note to EAC marking:

The EAC-marked products comply with the applicable requirements stated in the technical regulations of the Eurasian Economic Union.