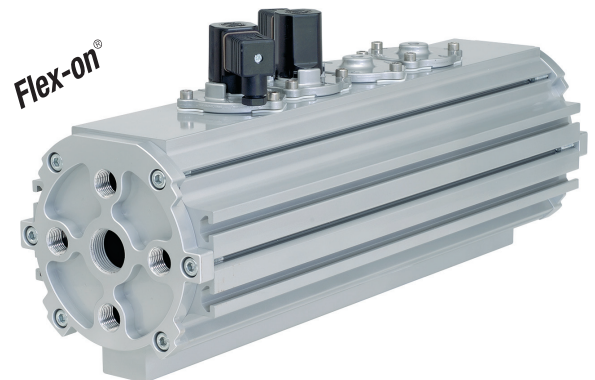


## 8589xxx System for Dust Collector, with integrated filter valves

- ø 135 mm for DN 25 valves
- Choice of virtually any number of valves at spacing of at least 75 mm
- Different blow-tube connections available include pipe, thread, flange socket, etc.
- Integrated filter pulse valve with TPE diaphragm
- For rapid response, high peak pressures and very good flow rates
- Pilot/Solenoid actuated valve
- International approvals



### Technical features

<b>Medium:</b> Air	<b>Dusty gas temperature:</b> –20 ... +80°C (–4 ... +176°F)	<b>Volume:</b> 0,14 dm <sup>3</sup> /cm of tank length	<b>Material:</b> Housing: Aluminium/PA 66 Seat seal: TPE Pilot seal: TPU
<b>Mounting position:</b> Optional	<b>Coil gas temperature:</b> –20 ... +80°C (–4 ... +176°F)	<b>Kv-value:</b> 26 m <sup>3</sup> /h apiece valve unit	
<b>Diameter:</b> ø 135 mm	<b>Ambient temperature:</b> –20 ... +80°C (–4 ... +176°F)	<b>Minimum spacing:</b> 75 mm	
<b>Working pressure:</b> 0,4 ... 8 bar (5,8 ... 116 psi) (pulsating)			

### Technical data – standard models

#### Further Informationen

Please contact a member of our sales team, to check the model number. (Phone +49 5731/791-0)

### 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

#### Voltage and Frequency Solenoid 8001 \*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 ... 60 Hz	20 VA	16 VA
110	50	110 V a.c.	50 ... 60 Hz	20 VA	16 VA
120	60	120 V a.c.	50 ... 60 Hz	20 VA	16 VA
230	50	230 V a.c.	50 ... 60 Hz	20 VA	16 VA

\*1)  US only

### Electrical details for all solenoid systems

<b>Design</b>	DIN VDE 0580
<b>Voltage range</b>	±10%
<b>Duty cycle</b>	100% ED
<b>Protection class</b>	EN 60529 IP65
<b>Socket</b>	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

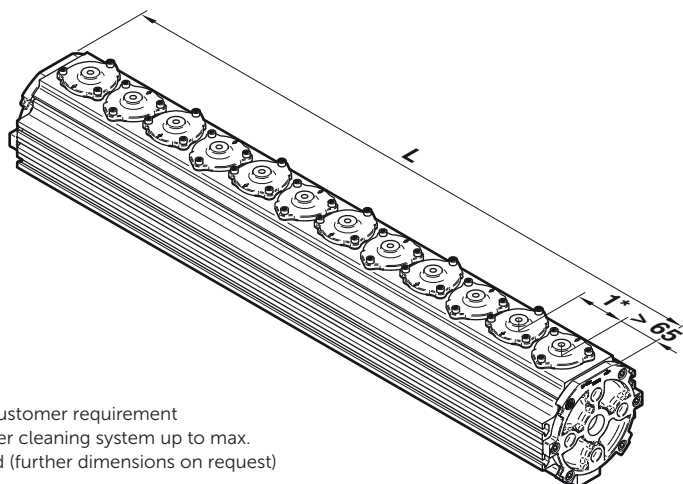
ATEX category	ATEX protection class	IP protection class	Solenoid	Standard voltages
II 3G II 3D	Ex ec IIC T4 Gc Ex tc IIIC T130°C DC	IP65	8176	24 V d.c., 110 V a.c., 230 V a.c.
II 2G II 2D	Ex eb mb IIC T4 Gb Ex mb tb IIIB T135°C Db	IP66	6176	24 V d.c., 110 V a.c., 230 V a.c.

#### Attention!

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

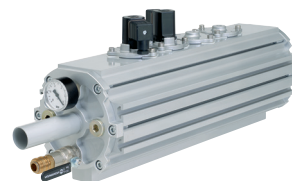
## Dimensions

### Pilot actuated valve

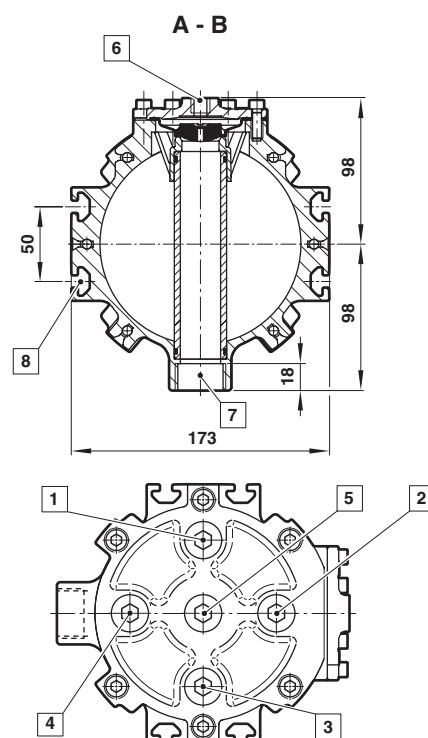
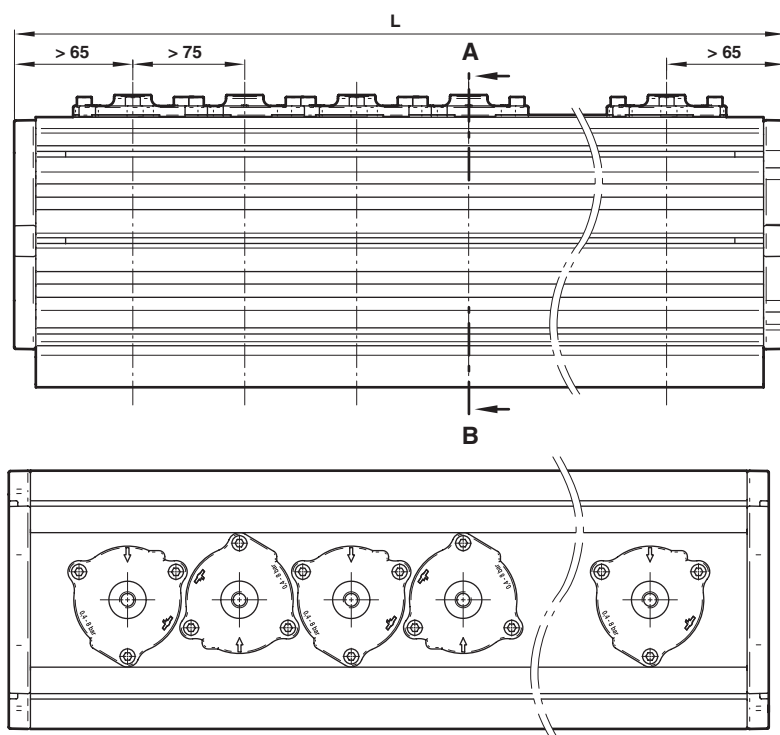


- \*1) Min. 75 mm, but max. to customer requirement  
L Individual length of the filter cleaning system up to max.  
1,2 m completely mounted (further dimensions on request)

### Examples for mounting parts

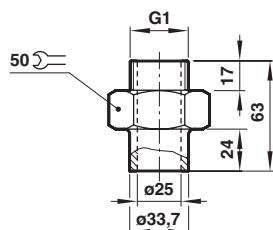


Dimensions in mm  
Projection/first angle

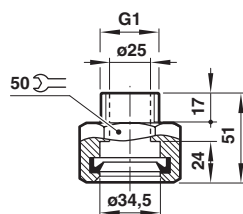


- |   |   |  |  |
|---|---|--|--|
| <p>1 2 3 4 Connection<br/>G1/2 or 1/2 NPT<br/>- condensate drain<br/>- pressure gauge<br/>- pressure switch<br/>- reading point</p> | <p>5 Connection<br/>G1, G1/2 or G3/4 resp.<br/>1 NPT, 1/2 NPT or 3/4 NPT<br/>- compressed air supply<br/>- input solenoid valve</p> | <p>6 Pilot connection<br/>G1/8 resp. 1/8 NPT<br/>7 Connection thread G1<br/>for adapters</p> | <p>8 Groove with sliding block<br/>(in acc. to DIN 508)<br/>for mounting of<br/>- electronic control<br/>- purge valve for measuring pipes<br/>of diff. pressure regulator<br/>- cable channel</p> |
|---|---|--|--|

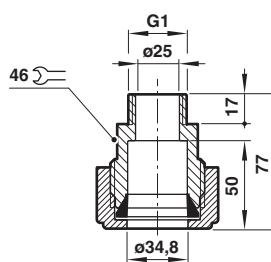
### Hose connection



### Plug connection

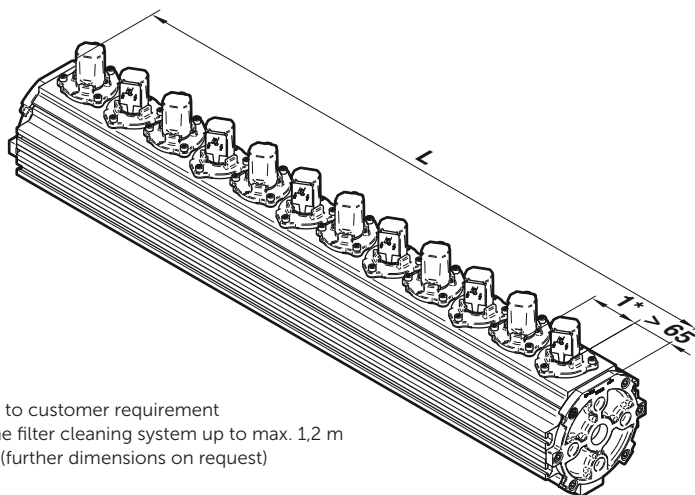


### Crimp connection



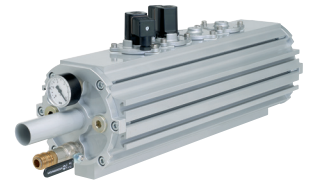
## Dimensions

### Solenoid actuated valve

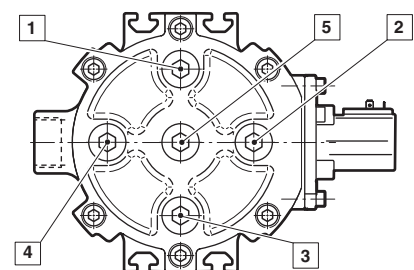
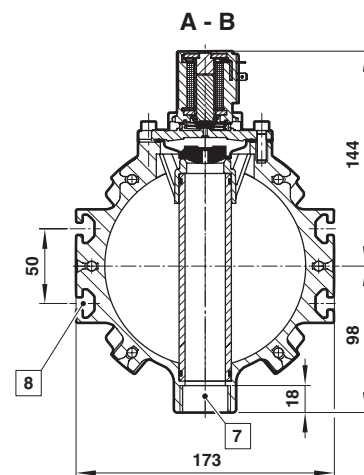
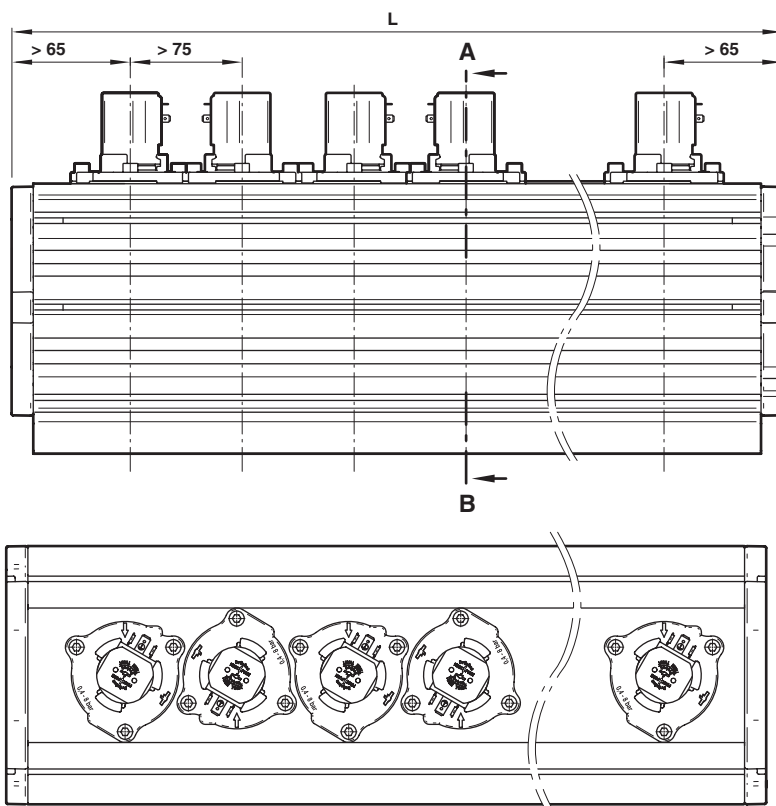


- \*1) Min. 75 mm, but max. to customer requirement  
L Individual length of the filter cleaning system up to max. 1,2 m completely mounted (further dimensions on request)

### Examples for mounting parts

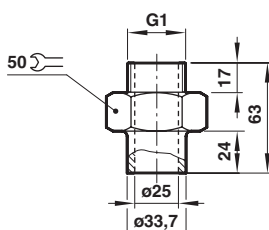


Dimensions in mm  
Projection/first angle

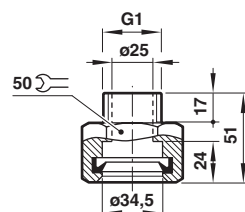


- 1 2 3 4 Connection G1/2 or 1/2 NPT  
- condensate drain  
- pressure gauge  
- pressure switch  
- reading point
- 5 Connection G1, G1/2 or G3/4 resp.  
1 NPT, 1/2 NPT or 3/4 NPT  
- compressed air supply  
- input solenoid valve
- 7 Connection thread G1 for adapters
- 8 Groove with sliding block (in acc. to DIN 508)  
for mounting of  
- electronic control  
- purge valve for measuring pipes of diff. pressure regulator  
- cable channel

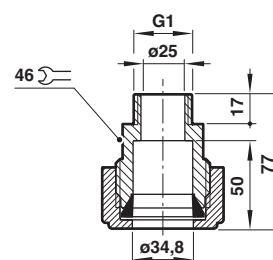
### Hose connection



### Plug connection



### Crimp connection



#### **Note to Pressure Equipment Directive (PED):**

The filter cleaning systems of this series with a pressure-volume product  $PS \times V$  up to max. 50 bar \* L complies with 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. Insofar as a CE marking is available, this does not refer to the PED but to other applicable EU directives. Thus the declaration of conformity is not longer applicable for this directive.

**For systems with a pressure-volume product  $PS \times V > 50 \text{ bar} * \text{Ltr. Art. 4 (1) (a) (i)}$  second indent applies:**

The basic requirements of the Enclosure I of the PED must be fulfilled. The CE-sign on the filter cleaning system includes the PED.

The operating limits and the volume can be found on the nameplate and in the operating instructions. A certificate of conformity of this directive will be available on request.

#### **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.