

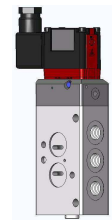
S29 1/4"-\*

3/2 – 4/2 - 5/2 Wegeventil mit Anschlussbild NAMUR  
3/2 – 4/2 – 5/2 way valve with NAMUR connection



NW 8

- Robuste Bauweise
- Eigenerwärmungsfrei
- Kompatibel zu Ansteuerbaugruppen
- rugged design
- free of self heating
- compatibility to interface moduls



| Funktionsbeschreibung      | Description            |    | 3/2-, 4/2-, 5/2-Wegeventil mit Anschlussbild nach NAMUR, Schieberventil mit Piezopilotventil, Normal geschlossen (NG) | 3/2-, 4/2-, 5/2-way valve with NAMUR connection, spoolvalve with piezopilotvalve, normally closed (NC)    |
|----------------------------|------------------------|----|-----------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|
| <b>Allgemeines</b>         | <b>Characteristics</b> |    |                                                                                                                       |                                                                                                           |
| Befestigungsart            | Mounting               |    | 2 Schrauben M6                                                                                                        |                                                                                                           |
| Anschlussgröße             | Port size              | mm | 8                                                                                                                     |                                                                                                           |
| Gewinde                    | Thread                 |    | NAMUR/ G1/4" – 11 mm tief                                                                                             |                                                                                                           |
| Gewicht                    | Weight (mass)          | kg | Siehe Abmessungen                                                                                                     | see dimensions                                                                                            |
| Einbaulage                 | Installation           |    | beliebig                                                                                                              | in any position                                                                                           |
| Medium:                    | Medium:                |    | Druckluft<br>- Taupunkt 10K<br>unter Umgebungstemperatur<br>- nach ISO8573-1, Kl.3                                    | Compressed air<br>- dewpoint 10K<br>under ambiet temperature<br>- ISO8573-1, Kl. 3                        |
| Durchflussrichtung         | Flow direction         |    | 3/ 2: EIN: von 1 – 2<br>AUS: von 2 – 3<br>5/2: EIN: von 1 – 4; 1 - 2<br>AUS: von 1 – 3; 4 - 5                         | 3/2: ON: from 1 – 2<br>OFF: from 2 – 3<br>5/2: ON: from 1 – 4; 1 – 2<br>OFF: from 1 – 3; 4 - 5            |
| Lagertemperatur            | Storage temperature    | °C | -40...+80                                                                                                             |                                                                                                           |
| Umgebungstemperatur        | Ambient temperature    | °C | -10...+60                                                                                                             |                                                                                                           |
| Umgebungstemperatur        | Ambient temperature    | °C | -25...+60<br>Steuerdruck ≥ 5,5 bar                                                                                    | -25...+60<br>pilot air pressure ≥ 5,5 bar                                                                 |
| Mediumstemperatur          | Medium temperature     | °C | -10...+60                                                                                                             |                                                                                                           |
| Mediumstemperatur          | Medium temperature     | °C | -25...+60<br>Steuerdruck ≥ 5,5 bar                                                                                    | -25...+60<br>pilot air pressure ≥ 5,5 bar                                                                 |
| Material                   | Material               |    | Aluminium, Aluminium mit Teflonbeschichtung, Messing, Federstahl, Kunststoff, Elastomer, NBR, ARCAP, Silikon          | anodized aluminium, aluminium teflon coated, brass, spring steel, plastic, elastomer, NBR, ARCAP, silicon |
| Schutzart                  | Protection class       |    | IP 65, DIN EN 60529/A1:2000                                                                                           |                                                                                                           |
| Verhalten bei Stromausfall | Properties power loss  |    | monostabil = Anschluss 4 entlüftend<br>bistabil = jeweilige Position haltend                                          | Continual signal = port 4 exhaust<br>impulse signal = keep present position                               |

**piezo fluid**

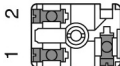
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S29 1/4"-\*

| Zulassung gem.<br>EU Baumusterprüf-<br>bescheinigung | Approval acc. to<br>EU Type test<br>certificate |  |                                                                                                                                                                            |                                                                                                                                                                            |
|------------------------------------------------------|-------------------------------------------------|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Kategorie, Zündartschutz                             | Category, type of<br>protection                 |  | <b>Gas:</b> II 1G Ex ia IIC T4/T5/T6 Ga<br><b>Mechanisch S9:</b><br>II 2G Ex h IIC T6/T5 Gb<br>$-10^{\circ}\text{C} \leq T_a \leq +40^{\circ}\text{C}/+60^{\circ}\text{C}$ | <b>Gas:</b> II 1G Ex ia IIC T4/T5/T6 Ga<br><b>Mechanisch S9:</b><br>II 2G Ex h IIC T6/T5 Gb<br>$-10^{\circ}\text{C} \leq T_a \leq +40^{\circ}\text{C}/+60^{\circ}\text{C}$ |

| Pneumatische Kenngrößen                                                                                                                            | Pneumatic characteristics                                                                                                                          |                                   |                                                 |
|----------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|-------------------------------------------------|
| Nenndruck                                                                                                                                          | Nominal pressure                                                                                                                                   | $p_1$ bar                         | 6                                               |
| Betrieb mit interner Steuerluft<br>Arbeitsdruckbereich                                                                                             | Operate with internal pilot<br>air<br>Operating pressure                                                                                           | $p_1$ bar                         | 2,5 ... 8.0                                     |
| Betrieb mit externer Steuerluft<br>Steuerdruckbereich<br>bei $P_1 < 2,5\text{bar}$<br>bei $P_1 2,5 \dots 8.0\text{bar}$<br><br>Arbeitsdruckbereich | Operate with external pilot<br>air<br>Pilot air pressure<br>with $P_1 < 2,5\text{bar}$<br>with $P_1 2,5 \dots$<br>8.0bar<br><br>Operating pressure | $P_{st}$<br>$P_{st}$<br>$P_1$ bar | $> 2,5$<br>$(P_{st} \geq P_1)$<br>$0 \dots 8.0$ |
| Nenndurchfluss (6 → 5bar)                                                                                                                          | Nominal flow (6 → 5bar)                                                                                                                            | $Q_N$ l/min                       | 1300                                            |

| Elektrische Kenndaten                                           |                      | Electric characteristics |      |                                                                                                                                                     |          |        |                                                                                      |         |
|-----------------------------------------------------------------|----------------------|--------------------------|------|-----------------------------------------------------------------------------------------------------------------------------------------------------|----------|--------|--------------------------------------------------------------------------------------|---------|
| Rel. Einschaltdauer                                             | Duty cycle           |                          | %    | 100<br>bei maximal 6000 h<br>Dauerbetrieb                                                                                                           |          |        | 100<br>within maximal duty time of<br>6000 h permanent operation                     |         |
| Elektroniktyp                                                   | Electronic type      |                          |      | PT63                                                                                                                                                | PM64     | PN61   | PN65                                                                                 | PT67    |
| Nennspannung                                                    | Nominal voltage      |                          | V DC | 9                                                                                                                                                   | 16       | 30     | 30                                                                                   | 9       |
| Ansteuerspannung                                                | Switching voltage    | U <sub>ein</sub>         | V DC | 5,5...9                                                                                                                                             | 6...16   | 7...30 | 11...30                                                                              | 4,5...9 |
|                                                                 |                      | U <sub>aus</sub>         | V DC | 1                                                                                                                                                   | 1        | 1      | 1                                                                                    | 1       |
| Haltestrom                                                      | On current           | I <sub>ein</sub>         | mA   | 1...1,9                                                                                                                                             | 1,7...23 | 2...19 | 2...6,6                                                                              | 1...19  |
|                                                                 |                      | I <sub>aus</sub>         | mA   | 0,05                                                                                                                                                | 0,1      | 0,22   | 0,1                                                                                  | 0,05    |
| Leistungsaufnahme                                               | Power consumption    | P <sub>Nmin</sub>        | mW   | 5,5                                                                                                                                                 | 10       | 14     | 22                                                                                   | 4,5     |
|                                                                 |                      | P <sub>Nmax</sub>        | mW   | 171                                                                                                                                                 | 368      | 571    | 198                                                                                  | 171     |
| Sicherheitstechnische Daten gem. EG- Baumusterprüfbescheinigung |                      |                          |      | Safety data according to EU type test certificate                                                                                                   |          |        |                                                                                      |         |
| Spannung                                                        | Voltage              | U <sub>i</sub>           | V DC | 9                                                                                                                                                   | 16       | 30     | 30                                                                                   | 9       |
| Strom                                                           | Current              | I <sub>i</sub>           | mA   | nicht relevant / not relevant <sup>1)</sup>                                                                                                         |          |        |                                                                                      |         |
| Äußere Kapazität                                                | External capacitance | C <sub>i</sub>           | nF   | 12                                                                                                                                                  | 12       | 12     | 12                                                                                   | 12      |
| Äußere Induktivität                                             | External inductance  | L <sub>i</sub>           | nH   | vernachlässigbar / negligible                                                                                                                       |          |        |                                                                                      |         |
| Anschluss                                                       | Connector            |                          |      | Gerätestecker<br>Industriebauform B;<br>elektrische Kontaktierung<br>1=GND; 2=Signal                                                                |          |        | Plug connector to<br>industrial form B;<br>electrical connections<br>1=GND; 2=signal |         |
|                                                                 |                      |                          |      | <b>Klemmen/Anschlussblock</b><br><br><div></div> <b>GSD-22</b> |          |        |                                                                                      |         |

<sup>1)</sup> Interne Begrenzung des Eingangsstroms  $I_i$  / Internal limitation of input current  $I_i$   
Für Auslegung des eigensicheren Stromkreises kann für  $I_i$  ein Wert  $> I_o$  verwendet werden  
For calculation of intrinsically safe circuit can be used a value  $> I_o$  for  $I_i$

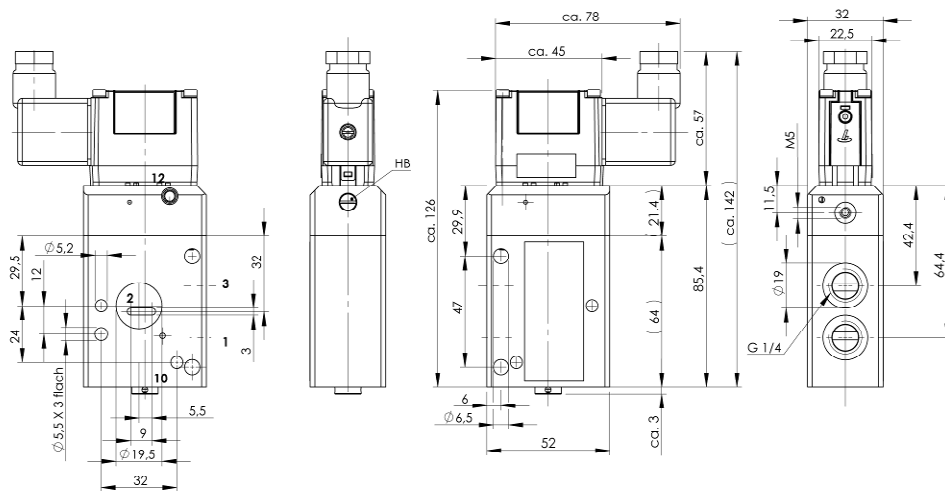
S29 1/4"-\*

| Abmessungen | Dimensions |
|-------------|------------|
|-------------|------------|

3/2

PS13850-xx6A-00 / S29 385RF-1/4-\*

PS13852-xx6A-00 / S29 385SRF-1/4-\*

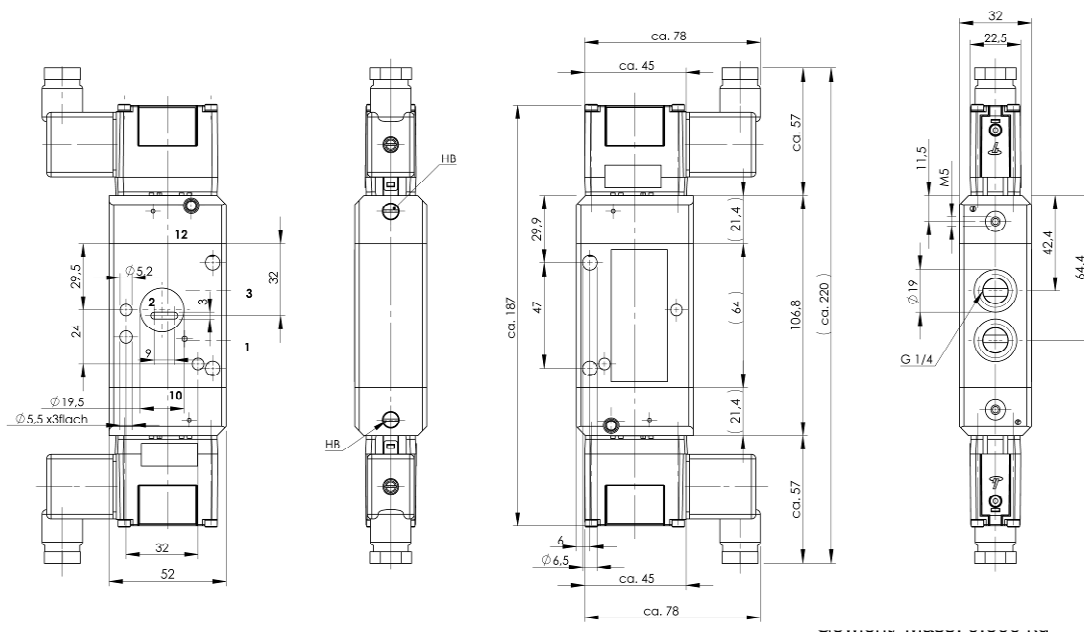


Gewicht/ Mass: 0,460 kg

3/2

PS13851-xx6A-00 / S29 385-1/4-\*

PS13853-xx6A-00 / S29 385S-1/4-\*



Gewicht/ Mass: 0,460 kg



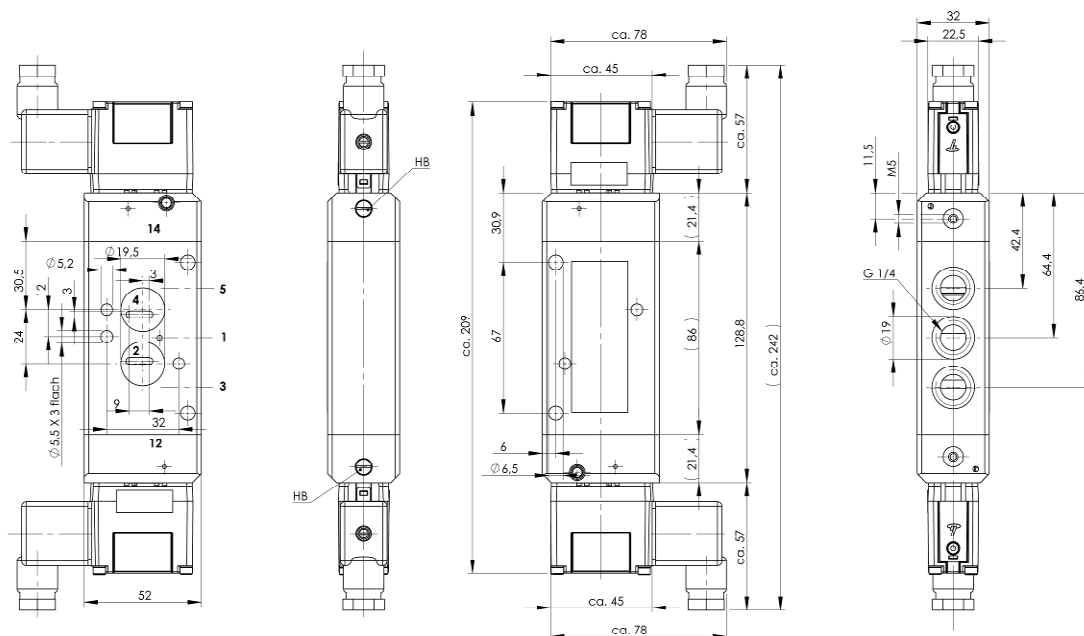
S29 1/4"-\*

| Abmessungen | Dimensions |
|-------------|------------|
|-------------|------------|

5/2

PS13857-xx6A-00 / S29 585-1/4-\*

PS13859-xx6A-00 / S29 585S-1/4-\*



Gewicht/ Mass: 0,600 kg

S29 1/4"-\*

Bestellnummernschlüssel S29 \*85\*\*\*-1/4-\*\* P\*6\*



|              |           |          |          |          |          |          |          |          |          | 1        |          | 2        |          |          |  |
|--------------|-----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|--|
| ID-Nr.:      | PS        | 1        | 3        | 8        | 5        | X        | -        | X        | X        | 6        | A        | -        | 0        | 0        |  |
| <i>e.g.:</i> | <i>PS</i> | <i>1</i> | <i>3</i> | <i>8</i> | <i>5</i> | <i>0</i> | <i>-</i> | <i>6</i> | <i>4</i> | <i>6</i> | <i>A</i> | <i>-</i> | <i>0</i> | <i>0</i> |  |

1

#### Ventiltyp

0 = 3/2 monostabil / S29 385RF-1/4-\*

1 = 3/2 bistabil / S29 385-1/4-\*

2 = 3/2 monostabil mit ext. Steuerluft / S29 385SRF-1/4-\*

3 = 3/2 bistabil mit ext. Steuerluft / S29 385S-1/4-\*

4 = 4/2 monostabil / S29 485RF-1/4-\*

6 = 5/2 monostabil / S29 585RF-1/4-\*

7 = 5/2 bistabil / S29 585-1/4-\*

8 = 5/2 monostabil mit ext. Steuerluft / S29 585SRF-1/4-\*

9 = 5/2 bistabil mit ext. Steuerluft / S29 585S-1/4-\*

2

#### Elektronikvariante

61 = PN61

63 = PT63

64 = PM64

65 = PN65

67 = PT67

Order code S29 \*85\*\*\*-1/4-\*\* P\*6\*

| P*6*         |           |          |          |          | 1        | 2        |   |          |          |          |          |   |          |          |
|--------------|-----------|----------|----------|----------|----------|----------|---|----------|----------|----------|----------|---|----------|----------|
|              | PS        | 1        | 3        | 8        | 5        | X        | - | X        | X        | 6        | A        | - | 0        | 0        |
| <i>e.g.:</i> | <i>PS</i> | <i>1</i> | <i>3</i> | <i>8</i> | <i>5</i> | <i>0</i> | - | <i>6</i> | <i>4</i> | <i>6</i> | <i>A</i> | - | <i>0</i> | <i>0</i> |

1

#### Valve type

0 = 3/2 continual signal / S29 385RF-1/4-\*

1 = 3/2 impulse signal / S29 385-1/4-\*

2 = 3/2 continual signal with ext. pilot pressure / S29 385SRF-1/4-\*

3 = 3/2 impulse signal with ext. pilot pressure / S29 385S-1/4-\*

4 = 4/2 continual signal / S29 485RF-1/4-\*

6 = 5/2 continual signal / S29 585RF-1/4-\*

7 = 5/2 impulse signal / S29 585-1/4-\*

8 = 5/2 continual signal with ext. pilot pressure / S29 585SRF-1/4-\*

9 = 5/2 impulse signal with ext. pilot pressure / S29 585S-1/4-\*

2

#### Electronic type

61 = PN61

63 = PT63

64 = PM64

65 = PN65

67 = PT67

| <u>Zubehör/ Accessory</u>                   |                                           |                                 |
|---------------------------------------------|-------------------------------------------|---------------------------------|
| Bezeichnung                                 | Description                               | Bestellnummer / Order number    |
| Ersatzstecker                               | Connector for replacement                 | KY9393                          |
| Stecker mit LED<br>nicht für den Ex-Bereich | Connector with LED<br>not for hazard area | Auf Anfrage/<br>On request only |

**ARA**

**P N E U M A T I K**

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**piezo fluid**