Technische Merkmale

Betriebsmedium:
Gefilterte, ölfreie oder geölte Druckluft

Betätigung:
Elektropneumatisch oder pneumatisch gesteuert

Betriebsdruck:
-0,9 ... 10 bar (-13 ... 145 psi)

Durchfluss:
500 ... 4500 l/min

Geringe elektrische Leistungsaufnahme
Verkettungssystem für einfache Montage
Vielfach bewährtes Dichtsystem, wartungsfrei
Handhilfsbetätigung nach Wahl

Betriebsmedium:
Gefilterte, ölfreie oder geölte Druckluft

Betätigung:
Elektropneumatisch oder pneumatisch gesteuert

Betriebsdruck:
-0,9 ... 10 bar (-13 ... 145 psi)

Durchfluss:
500 ... 4500 l/min

Technische Merkmale

Durchflussrichtung:
Bei interner Steuerluftversorgung: festgelegt.
Bei externer Steuerluftversorgung: beliebig

Anschluss:
G1/8, G1/4, G3/8 oder G1/2
Ventile mit NPT-Anschlüssen
siehe Typenschlüssel

Kenngrößen für Elektromagnete

<table>
<thead>
<tr>
<th>Spannungstoleranz</th>
<th>± 10%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Relative Einschaltdauer</td>
<td>100% Dauerbetrieb</td>
</tr>
<tr>
<td>Nennweite</td>
<td>0,8 mm</td>
</tr>
<tr>
<td>Elektrischer Anschluss (entsprechend ausgewählter Spule)</td>
<td>EN 175301-803 - Form B, 22 mm</td>
</tr>
<tr>
<td>Magnetspule</td>
<td>4 x 90° drehbar</td>
</tr>
<tr>
<td>Handhilfsbetätigung</td>
<td>Ohne</td>
</tr>
<tr>
<td></td>
<td>Arretierbar</td>
</tr>
<tr>
<td></td>
<td>Nicht arretierbar</td>
</tr>
<tr>
<td>Schutzart</td>
<td>IP 65 (mit Steckverbinder)</td>
</tr>
</tbody>
</table>

Einbautage:
Beliebig, Impulsventile vorzugsweise waagerecht

Umgebungs-/Mediumstemperatur:
-10 ... +50°C (+14 ... +122°F)

Um das Einfrieren der beweglichen Teile zu vermeiden, muss die Druckluft unter +2°C (+35°F) frei von Feuchtigkeit sein.

Material:
Gehäuse:
V60 ... V62
Aluminium-Druckguss
V63
Aluminium-Strangpressprofi

Grundplatten: Aluminium

Statische- und dynamische Dichtungen: NBR und FPM

Kunststoffeile: PA, PBT mit GF

Konstruktionsänderungen vorbehalten. (2002 - 50600) © 2015 Norgren GmbH
3/2-Wegeventile, elektropneumatisch betätigt

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Anschluss</th>
<th>Funktion</th>
<th>Betätigung / Rückstellung</th>
<th>Steuerluft</th>
<th>Durchfluss (l/min)</th>
<th>Betriebsdruck (bar)</th>
<th>Steuerdruck (bar)</th>
<th>Gewicht (kg)</th>
<th>Zeichnung Nr.</th>
</tr>
</thead>
<tbody>
<tr>
<td>G1/8</td>
<td>NC</td>
<td>El. magnet/Feder</td>
<td>Intern</td>
<td>750</td>
<td>2 ... 10</td>
<td>–</td>
<td>0,22</td>
<td>1</td>
<td>V60A417A-Ai*</td>
</tr>
<tr>
<td>G1/4</td>
<td>NC</td>
<td>El. magnet/Feder</td>
<td>Intern</td>
<td>1300</td>
<td>2 ... 10</td>
<td>–</td>
<td>0,29</td>
<td>1</td>
<td>V61B417A-Ai*</td>
</tr>
<tr>
<td>G3/8</td>
<td>NC</td>
<td>El. magnet/Feder</td>
<td>Intern</td>
<td>2600</td>
<td>2 ... 10</td>
<td>–</td>
<td>0,52</td>
<td>1</td>
<td>V62C417A-Ai*</td>
</tr>
<tr>
<td>G1/2</td>
<td>NC</td>
<td>El. magnet/Feder</td>
<td>Intern</td>
<td>4500</td>
<td>2 ... 10</td>
<td>–</td>
<td>0,78</td>
<td>2</td>
<td>V63D417A-Ai*</td>
</tr>
<tr>
<td>G1/8</td>
<td>NC</td>
<td>El. Luftfeder</td>
<td>Extern</td>
<td>750</td>
<td>2 ... 10</td>
<td>–</td>
<td>0,22</td>
<td>3</td>
<td>V60A413A-Ai*</td>
</tr>
<tr>
<td>G1/4</td>
<td>NC</td>
<td>El. Luftfeder</td>
<td>Extern</td>
<td>1300</td>
<td>2 ... 10</td>
<td>–</td>
<td>0,29</td>
<td>3</td>
<td>V61B413A-Ai*</td>
</tr>
<tr>
<td>G3/8</td>
<td>NC</td>
<td>El. Luftfeder</td>
<td>Extern</td>
<td>2600</td>
<td>2 ... 10</td>
<td>–</td>
<td>0,52</td>
<td>3</td>
<td>V62C413A-Ai*</td>
</tr>
<tr>
<td>G1/2</td>
<td>NC</td>
<td>El. Luftfeder</td>
<td>Extern</td>
<td>4500</td>
<td>3 ... 10</td>
<td>–</td>
<td>0,78</td>
<td>4</td>
<td>V63D413A-Ai*</td>
</tr>
</tbody>
</table>

2 x 3/2-Wegeventile, elektropneumatisch betätigt

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Anschluss</th>
<th>Funktion</th>
<th>Betätigung/ Rückstellung</th>
<th>Steuerluft</th>
<th>Durchfluss (l/min)</th>
<th>Betriebsdruck (bar)</th>
<th>Steuerdruck (bar)</th>
<th>Gewicht (kg)</th>
<th>Zeichnung Nr.</th>
</tr>
</thead>
<tbody>
<tr>
<td>G1/8</td>
<td>NO/NC</td>
<td>El. magnet/Feder</td>
<td>Intern</td>
<td>500</td>
<td>2 ... 10</td>
<td>–</td>
<td>0,34</td>
<td>13</td>
<td>V62A11A-Ai*</td>
</tr>
<tr>
<td>G1/4</td>
<td>NO/NC</td>
<td>El. magnet/Feder</td>
<td>Intern</td>
<td>950</td>
<td>2 ... 10</td>
<td>–</td>
<td>0,43</td>
<td>13</td>
<td>V61B11A-Ai*</td>
</tr>
<tr>
<td>G3/8</td>
<td>NO/NC</td>
<td>El. magnet/Feder</td>
<td>Intern</td>
<td>1900</td>
<td>2 ... 10</td>
<td>–</td>
<td>0,73</td>
<td>13</td>
<td>V62C11A-Ai*</td>
</tr>
<tr>
<td>G1/8</td>
<td>NO/NO</td>
<td>El. magnet/Feder</td>
<td>Intern</td>
<td>500</td>
<td>1,5 ... 10</td>
<td>–</td>
<td>0,30</td>
<td>7</td>
<td>V62A111A-Ai*</td>
</tr>
<tr>
<td>G1/4</td>
<td>NO/NO</td>
<td>El. magnet/Feder</td>
<td>Intern</td>
<td>950</td>
<td>1,5 ... 10</td>
<td>–</td>
<td>0,38</td>
<td>7</td>
<td>V61B111A-Ai*</td>
</tr>
<tr>
<td>G3/8</td>
<td>NO/NO</td>
<td>El. magnet/Feder</td>
<td>Intern</td>
<td>1900</td>
<td>1,5 ... 10</td>
<td>–</td>
<td>0,61</td>
<td>7</td>
<td>V62C111A-Ai*</td>
</tr>
</tbody>
</table>

# Bitte Code für Handholfbetätigung einfügen: 1 = ohne; 2 = arretierbar; 3 = nicht arretierbar

*1) Spannungscode aus der Tabelle unten einfügen oder 000 für Ausführung ohne Magnet
NC = Sperre-Nullstellung; NO = Durchfluss-Nullstellung
NC/NC = Beide Ventile in Ruhestellung geschlossen (Anschluss P)
NO/NO = Beide Ventile in Ruhestellung geöffnet (Anschluss P)
NC/NO = 1 Ventil in Ruhestellung geöffnet, 1 Ventil in Ruhestellung geschlossen (Anschluss P)

Spannungskennziffern und Ersatzspulen

22 mm -Spule ohne Steckverbinder nach Industriestandard

<table>
<thead>
<tr>
<th>Spannung</th>
<th>Anzugs-/Halteleistung</th>
<th>Typ</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>12 V DC</td>
<td>2 W</td>
<td>KM/48/12J/21</td>
<td>12J</td>
</tr>
<tr>
<td>24 V DC</td>
<td>2 W</td>
<td>KM/48/13J/21</td>
<td>13J</td>
</tr>
<tr>
<td>24 V 50/60 Hz</td>
<td>4/2,5 VA</td>
<td>KM/48/14J/21</td>
<td>14J</td>
</tr>
<tr>
<td>110/120 V 50/60 Hz</td>
<td>4/2,5 VA</td>
<td>KM/48/18J/21</td>
<td>18J</td>
</tr>
<tr>
<td>220/240 V 50/60 Hz</td>
<td>8/5,0 VA</td>
<td>KM/48/19J/21</td>
<td>19J</td>
</tr>
</tbody>
</table>

22 mm coil for connector interface acc. EN 175 301-803, form B

<table>
<thead>
<tr>
<th>Spannung</th>
<th>Anzugs-/Halteleistung</th>
<th>Typ</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>12 V DC</td>
<td>2 W</td>
<td>V10626-A12L</td>
<td>12L</td>
</tr>
<tr>
<td>24 V DC</td>
<td>2 W</td>
<td>V10626-A13L</td>
<td>13L</td>
</tr>
<tr>
<td>24 V 50/60 Hz</td>
<td>4/2,5 VA</td>
<td>V10626-A14L</td>
<td>14L</td>
</tr>
<tr>
<td>110/120 V 50/60 Hz</td>
<td>4/2,5 VA</td>
<td>V10626-A18L</td>
<td>18L</td>
</tr>
<tr>
<td>220/240 V 50/60 Hz</td>
<td>8/5,0 VA</td>
<td>V10626-A19L</td>
<td>19L</td>
</tr>
</tbody>
</table>

Steckverbinder, bitte separat bestellen

Industriestandard 22 mm 2-polig + PE

<table>
<thead>
<tr>
<th>Typ</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>22 mm, EN 175/01-803 (DIN 43650 B) Form B 2-polig + PE</td>
<td></td>
</tr>
<tr>
<td>2-polig + PE</td>
<td></td>
</tr>
</tbody>
</table>

Hinweis: leuchtende Dichtungen nicht verwendbar
### 5/2-Wegeventile, elektropneumatisch betätigt

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Anschluss</th>
<th>Betätigung / Rückstellung</th>
<th>Steuerluft</th>
<th>Durchfluss [(l/min)]</th>
<th>Betriebsdruck (bar)</th>
<th>Steuerdruck (bar)</th>
<th>Gewicht (kg)</th>
<th>Zeichnung Nr.</th>
<th>Typ*1)</th>
</tr>
</thead>
<tbody>
<tr>
<td>G1/8</td>
<td>El. magnet/Feder</td>
<td>Intern</td>
<td>750</td>
<td>3 ... 10</td>
<td>–</td>
<td>0,22</td>
<td>9</td>
<td>V60A517A-AA*</td>
<td></td>
</tr>
<tr>
<td>G1/4</td>
<td>El. magnet/Feder</td>
<td>Intern</td>
<td>1300</td>
<td>3 ... 10</td>
<td>–</td>
<td>0,29</td>
<td>9</td>
<td>V61B517A-AA*</td>
<td></td>
</tr>
<tr>
<td>G3/8</td>
<td>El. magnet/Feder</td>
<td>Intern</td>
<td>2600</td>
<td>3 ... 10</td>
<td>–</td>
<td>0,52</td>
<td>9</td>
<td>V62C517A-AA*</td>
<td></td>
</tr>
<tr>
<td>G1/2</td>
<td>El. magnet/Feder</td>
<td>Intern</td>
<td>4500</td>
<td>3 ... 10</td>
<td>–</td>
<td>0,96</td>
<td>10</td>
<td>V63D517A-AA*</td>
<td></td>
</tr>
</tbody>
</table>

### 5/3-Wegeventile, elektropneumatisch betätigt

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Anschluss</th>
<th>Funktion</th>
<th>Betätigung / Rückstellung</th>
<th>Steuerluft</th>
<th>Durchfluss [(l/min)]</th>
<th>Betriebsdruck (bar)</th>
<th>Steuerdruck (bar)</th>
<th>Gewicht (kg)</th>
<th>Zeichnung Nr.</th>
<th>Typ*1)</th>
</tr>
</thead>
<tbody>
<tr>
<td>G1/8</td>
<td>APB</td>
<td>El. magnet/El. magnet</td>
<td>Intern</td>
<td>500</td>
<td>3 ... 10</td>
<td>–</td>
<td>0,35</td>
<td>15</td>
<td>W60611A-AA*</td>
<td></td>
</tr>
<tr>
<td>G1/4</td>
<td>APB</td>
<td>El. magnet/El. magnet</td>
<td>Intern</td>
<td>950</td>
<td>3 ... 10</td>
<td>–</td>
<td>0,47</td>
<td>15</td>
<td>W61B611A-AA*</td>
<td></td>
</tr>
<tr>
<td>G3/8</td>
<td>APB</td>
<td>El. magnet/El. magnet</td>
<td>Intern</td>
<td>1900</td>
<td>3 ... 10</td>
<td>–</td>
<td>0,81</td>
<td>15</td>
<td>W62E611A-AA*</td>
<td></td>
</tr>
</tbody>
</table>

# Bitte Code für Handhilfsbetätigung einfügen: 1 = ohne; 2 = arretierbar; 3 = nicht arretierbar

*1) Spannungscode aus der Tabelle Seite 2 einfügen oder 000 für Ausführung ohne Magnet

APB = All ports blocked – in Mittelstellung alle Anschlüsse gesperrt

COE = Centre open exhaust – in Mittelstellung Anschluss 2+4 entlüftet

COP = Centre open pressure – in Mittelstellung Anschluss 2+4 belüftet
### 3/2-Wegeventile, pneumatisch betätigt

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Anschluss</th>
<th>Funktion</th>
<th>Betätigung/ Rückstellung</th>
<th>Durchfluss (l/min)</th>
<th>Betriebsdruck (bar)</th>
<th>Steuerdruck extern (bar)</th>
<th>Gewicht (kg)</th>
<th>Zeichnung Nr.</th>
</tr>
</thead>
<tbody>
<tr>
<td>G1/8</td>
<td>NC</td>
<td>Druckluft/Feder</td>
<td>750</td>
<td>-0,9 ... 10</td>
<td>2,5 ... 10</td>
<td>0,13</td>
<td>31</td>
<td>V60A4DDA-XA090</td>
</tr>
<tr>
<td>G1/4</td>
<td>NC</td>
<td>Druckluft/Feder</td>
<td>1300</td>
<td>-0,9 ... 10</td>
<td>2,5 ... 10</td>
<td>0,21</td>
<td>31</td>
<td>V61B4DDA-XA090</td>
</tr>
<tr>
<td>G3/8</td>
<td>NC</td>
<td>Druckluft/Feder</td>
<td>2600</td>
<td>-0,9 ... 10</td>
<td>2,5 ... 10</td>
<td>0,43</td>
<td>33</td>
<td>V62C4DDA-XA090</td>
</tr>
<tr>
<td>G1/2</td>
<td>NC</td>
<td>Druckluft/Feder</td>
<td>4500</td>
<td>-0,9 ... 16</td>
<td>3 ... 16</td>
<td>0,75</td>
<td>35</td>
<td>V63D4DDA-XA090</td>
</tr>
</tbody>
</table>

### 2 x 3/2-Wegeventile, pneumatisch betätigt

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Anschluss</th>
<th>Funktion</th>
<th>Betätigung/ Rückstellung</th>
<th>Durchfluss (l/min)</th>
<th>Betriebsdruck (bar)</th>
<th>Steuerdruck extern (bar)</th>
<th>Gewicht (kg)</th>
<th>Zeichnung Nr.</th>
</tr>
</thead>
<tbody>
<tr>
<td>G1/8</td>
<td>NC/NC</td>
<td>Druckluft/Drahtkraft</td>
<td>500</td>
<td>2 ... 10</td>
<td>2 ... 10</td>
<td>0,18</td>
<td>43</td>
<td>V60A2DDA-XA020</td>
</tr>
<tr>
<td>G1/4</td>
<td>NC/NC</td>
<td>Druckluft/Drahtkraft</td>
<td>950</td>
<td>2 ... 10</td>
<td>2 ... 10</td>
<td>0,28</td>
<td>43</td>
<td>V61B2DDA-XA020</td>
</tr>
<tr>
<td>G3/8</td>
<td>NO/NO</td>
<td>Druckluft/Drahtkraft</td>
<td>1900</td>
<td>2 ... 10</td>
<td>2 ... 10</td>
<td>0,60</td>
<td>44</td>
<td>V62C2DDA-XA020</td>
</tr>
</tbody>
</table>

### 5/2-Wegeventile, pneumatisch betätigt

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Anschluss</th>
<th>Funktion</th>
<th>Betätigung/ Rückstellung</th>
<th>Durchfluss (l/min)</th>
<th>Betriebsdruck (bar)</th>
<th>Steuerdruck extern (bar)</th>
<th>Gewicht (kg)</th>
<th>Zeichnung Nr.</th>
</tr>
</thead>
<tbody>
<tr>
<td>G1/8</td>
<td>Druckluft/Feder</td>
<td>750</td>
<td>-0,9 ... 10</td>
<td>2,5 ... 10</td>
<td>0,16</td>
<td>40</td>
<td>V60A5DDA-XA090</td>
<td></td>
</tr>
<tr>
<td>G1/4</td>
<td>Druckluft/Feder</td>
<td>1300</td>
<td>-0,9 ... 10</td>
<td>2,5 ... 10</td>
<td>0,24</td>
<td>40</td>
<td>V61B5DDA-XA090</td>
<td></td>
</tr>
<tr>
<td>G3/8</td>
<td>Druckluft/Feder</td>
<td>2600</td>
<td>-0,9 ... 10</td>
<td>2,5 ... 10</td>
<td>0,56</td>
<td>41</td>
<td>V62C5DDA-XA090</td>
<td></td>
</tr>
<tr>
<td>G1/2</td>
<td>Druckluft/Feder</td>
<td>4500</td>
<td>-0,9 ... 16</td>
<td>3 ... 16</td>
<td>0,92</td>
<td>42</td>
<td>V63D5DDA-XA090</td>
<td></td>
</tr>
</tbody>
</table>

### 5/3-Wegeventile, pneumatisch betätigt

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Anschluss</th>
<th>Funktion</th>
<th>Betätigung/ Rückstellung</th>
<th>Durchfluss (l/min)</th>
<th>Betriebsdruck (bar)</th>
<th>Steuerdruck extern (bar)</th>
<th>Gewicht (kg)</th>
<th>Zeichnung Nr.</th>
</tr>
</thead>
<tbody>
<tr>
<td>G1/8</td>
<td>APB</td>
<td>Druckluft/Drahtkraft</td>
<td>500</td>
<td>-0,9 ... 10</td>
<td>3 ... 10</td>
<td>0,20</td>
<td>46</td>
<td>V60A6DDA-XA020</td>
</tr>
<tr>
<td>G1/4</td>
<td>APB</td>
<td>Druckluft/Drahtkraft</td>
<td>950</td>
<td>-0,9 ... 10</td>
<td>3 ... 10</td>
<td>0,32</td>
<td>46</td>
<td>V61B6DDA-XA020</td>
</tr>
<tr>
<td>G3/8</td>
<td>APB</td>
<td>Druckluft/Drahtkraft</td>
<td>1900</td>
<td>-0,9 ... 10</td>
<td>3 ... 10</td>
<td>0,67</td>
<td>47</td>
<td>V62C6DDA-XA020</td>
</tr>
<tr>
<td>G1/2</td>
<td>APB</td>
<td>Druckluft/Drahtkraft</td>
<td>2300</td>
<td>-0,9 ... 10</td>
<td>3 ... 10</td>
<td>1,10</td>
<td>48</td>
<td>V63D6DDA-XA020</td>
</tr>
</tbody>
</table>

NC = Sperr-Nullstellung
NO = Durchfluss-Nullstellung
NC/NO = Beide Ventile in Ruhestellung geschlossen (Anschluss P)
NO/NO = Beide Ventile in Ruhestellung geöffnet (Anschluss P)

APB = All ports blocked – in Mittelstellung alle Anschlüsse gesperrt
COE = Centre open exhaust – in Mittelstellung Anschluss 2+4 entlüftet
COP = Centre open pressure – in Mittelstellung Anschluss 2+4 belüftet
### Typenschlüssel (elektropneumatisch betätigte Ventile)

<table>
<thead>
<tr>
<th>Gewinde</th>
<th>Kennung</th>
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<tr>
<td>G1/4</td>
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</tr>
<tr>
<td>G3/8</td>
<td>2C</td>
</tr>
<tr>
<td>G1/2</td>
<td>3D</td>
</tr>
</tbody>
</table>

**NPT-Gewinde Kennung**

| 1/8 NPT   | 0P      |
| 1/4 NPT   | 1R      |
| 3/8 NPT   | 2S      |
| 1/2 NPT   | 3T      |

**Funktion Kennung**

| 3/2 - NO  | 3       |
| 3/2 - NC  | 4       |
| 5/2       | 5       |
| 5/3 - APB | 6       |
| 5/3 - COE | 7       |
| 5/3 - COP | 8       |
| 2 x 3/2 - NC | A   |
| 2 x 3/2 - NO | B   |
| 2 x 3/2 - NO/NC | C   |

### Typenschlüssel (pneumatisch betätigte Ventile)

<table>
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<tr>
<th>Gewinde</th>
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</tr>
</thead>
<tbody>
<tr>
<td>G1/8</td>
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<tr>
<td>G1/2</td>
<td>3D</td>
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**NPT-Gewinde Kennung**

| 1/8 NPT   | 0P      |
| 1/4 NPT   | 1R      |
| 3/8 NPT   | 2S      |
| 1/2 NPT   | 3T      |

**Funktion Kennung**

| 3/2 - NO  | 3       |
| 3/2 - NC  | 4       |
| 5/2       | 5       |
| 5/3 - APB | 6       |
| 5/3 - COE | 7       |
| 5/3 - COP | 8       |
| 2 x 3/2 - NC | A   |
| 2 x 3/2 - NO | B   |
| 2 x 3/2 - NO/NC | C   |
Sammelleisten für gemeinsame Druckversorgung (V60 und V61)

<table>
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<tr>
<th>Serie</th>
<th>Seite 19 1</th>
<th>Seite 19 2</th>
<th>Seite 19 3</th>
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* komplett mit Hohlschrauben und Dichtungen

1) Bitte ergänzen Sie den Typ um die Anzahl der Ventilplätze: 2, 3, 4, 5, 6, 7 und 8
2) Bitte ergänzen Sie den Typ um die Anzahl der Ventilplätze: 9 (nur für V61), 0 für 10 und 2 für 12

Sammelgrundplatten

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<th>Ventilplätze</th>
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<th>Seite 17 3</th>
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<th>Seite 17 5</th>
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Zubehör für Sammelgrundplatte

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<th>Stopfen für 2- und 3-fach-Platten</th>
<th>Druckabsperrteil für Anschluss 1</th>
<th>Druckabsperrteil für Anschluss 3 oder 5</th>
<th>Befestigungssatz für DIN-Schiene</th>
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Abmessungen

| Nr. | A  | B  | C  | Ø D | E  | F  | G  | H  | I  | J  | K  | L  | M  | N  | O  | P  | Q  | R  | S  | T  | U  | V  | X  | Typ       |
|-----|----|----|----|-----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|--------|
| 1   | 125| 45 | 16 | 4,5| 18 | 25 | 56 | 17 | 26 | 35 | 28 | 12 | 35 | G1/8| —  | 17 | 22 | 3,2 | —  | —  | 6,5 | —  | 19 | V60A417A—|
| 2   | 147| 57,5| 21 | 4,5| 24 | 32 | 70 | 22,5| 26 | 40 | 28 | 17 | 46 | G1/4| —  | 20 | 25 | 3,2 | —  | —  | 6,5 | —  | 23 | V61B417A—|
| 3   | 166,5| 70 | 24,5| 4,5| 26 | — | 83,5| 28 | 36 | 55 | 44 | 32 | 54 | G3/8| —  | 28 | 34 | 4,5 | —  | —  | 8,0 | 23 | 30 | V62C417A—|
| 2   | 197| 87,5| 38 | 7  | 46 | 75 | 108| 33,5| 26 | 65 | — | 38 | — | G1/2| —  | —  | 35 | —  | 18,5| 5,5 | —  | 36 | V63D417A—|
| 3   | 116,5| 37 | 16 | 4,5| 18 | 25 | 56 | 9  | 26 | 35 | 28 | 12 | 35 | G1/8| —  | 17 | 22 | 3,2 | —  | —  | 6,5 | —  | 19 | V60A413A—|
| 3   | 132,5| 43 | 21 | 4,5| 24 | 32 | 70 | 8  | 26 | 40 | 28 | 17 | 46 | G1/4| —  | 20 | 25 | 3,2 | —  | —  | 6,5 | —  | 23 | V61B413A—|
| 3   | 147| 50,5| 24,5| 4,5| 26 | — | 83,5| 9  | 36 | 55 | 44 | 32 | 54 | G3/8| —  | 28 | 34 | 4,5 | —  | —  | 8,0 | 23 | 30 | V62C413A—|
| 3   | 116,5| 37 | 16 | 4,5| 18 | 25 | 56 | 9  | 26 | 35 | 28 | 12 | 35 | G1/8| 22 | 17 | 22 | 3,2 | —  | —  | 6,5 | —  | 19 | V60A423A—|
| 3   | 132,5| 43 | 21 | 4,5| 24 | 32 | 70 | 8  | 26 | 40 | 28 | 17 | 46 | G1/4| 29 | 20 | 25 | 3,2 | —  | —  | 6,5 | —  | 23 | V61B423A—|
| 3   | 147| 50,5| 24,5| 4,5| 26 | — | 83,5| 9  | 36 | 55 | 44 | 32 | 54 | G3/8| 28 | 34 | 4,5 | —  | —  | 8,0 | 23 | 30 | V62C423A—|

- Gefasste Spulenentlüftung (M5)
- Handhilfsbetätigung
- V62: Nur zentrale Befestigungsbohrung (ohne linke Bohrung) und rechteckigem Enddecker
- Externer Steuerluftanschluss, M5 oder 10-32 UNF (V60, V61 & V62), G1/8 oder 1/8-27 NPT (V63)

Konstruktionsänderungen vorbehalten. (2002 - 50660) © 2015 Norgren GmbH
V60 ... V63, 3/2, 2 x 3/2, 5/2 oder 5/3
Elektropneumatisch & pneumatisch betätigte Kolbenschieberventile

**Gefasste Spulenentlüftung (M5)**
**Handhilfsbetätigung**

<table>
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<th>Nr.</th>
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<td>—</td>
<td>23</td>
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</tbody>
</table>

**Abmessungen in mm**
Projection/First angle

**V62: Nur zentrale Befestigungsbohrung (ohne linke Bohrung) und rechteckigem Enddeckel**
**Externer Steuerraumanschluss, M5 oder 10-32 UNF (V60 & V61), G1/8 oder 1/8-27 NPT**
### Tabelle: Abmessungen in mm

| Nr. | A    | B    | C    | Ø D | E   | F   | G   | I    | J    | K    | L    | M    | N   | P   | Q   | Ø R | Ø T | Ø U | V   | W   | X   | Y   | Z   | Typ                        |
|-----|------|------|------|-----|-----|-----|-----|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----------------------------|
| 13  | 174,5| 87,5 | 32,5 | 4,5 | 33,5| 8   | 71  | 26   | 35   | 28   | 12   | 50   | 18  | 17  | 22  | 3,2 | 6,5 | 16 | 17 | —  | V60A511A—...              |
| 13  | 174,5| 87,5 | 32,5 | 4,5 | 33,5| 8   | 71  | 26   | 35   | 28   | 12   | 50   | 18  | 17  | 22  | 3,2 | 6,5 | 16 | 17 | —  | V60A11A—...                |
| 13  | 174,5| 87,5 | 32,5 | 4,5 | 33,5| 8   | 71  | 26   | 35   | 28   | 12   | 50   | 18  | 17  | 22  | 3,2 | 6,5 | 16 | 17 | —  | V60B11A—...                |
| 13  | 174,5| 87,5 | 32,5 | 4,5 | 33,5| 8   | 71  | 26   | 35   | 28   | 12   | 50   | 18  | 17  | 22  | 3,2 | 6,5 | 16 | 17 | —  | V60C11A—...                |
| 13  | 199  | 99,5 | 42   | 4,5 | 44  | 10  | 90  | 26   | 40   | 28   | 17   | 66   | 18  | 20  | 25  | 3,2 | 6,5 | 21 | 22 | —  | V61B11A—...                |
| 13  | 199  | 99,5 | 42   | 4,5 | 44  | 10  | 90  | 26   | 40   | 28   | 17   | 66   | 18  | 20  | 25  | 3,2 | 6,5 | 21 | 22 | —  | V61A11A—...                |
| 13  | 199  | 99,5 | 42   | 4,5 | 44  | 10  | 90  | 26   | 40   | 28   | 17   | 66   | 18  | 20  | 25  | 3,2 | 6,5 | 21 | 22 | —  | V61B11A—...                |
| 13  | 199  | 99,5 | 42   | 4,5 | 44  | 10  | 90  | 26   | 40   | 28   | 17   | 66   | 18  | 20  | 25  | 3,2 | 6,5 | 21 | 22 | —  | V61C11A—...                |
| 13  | 218  | 109  | 49   | 4,5 | —   | 12  | 108 | 36   | 55   | 44   | 32   | 78   | 28  | 34  | 4,5 | 8,0 | —  | 24 | 26 | —  | V62C511A—...               |
| 13  | 218  | 109  | 49   | 4,5 | —   | 12  | 108 | 36   | 55   | 44   | 32   | 78   | 28  | 34  | 4,5 | 8,0 | —  | 24 | 26 | —  | V62CA11A—...               |
| 13  | 218  | 109  | 49   | 4,5 | —   | 12  | 108 | 36   | 55   | 44   | 32   | 78   | 28  | 34  | 4,5 | 8,0 | —  | 24 | 26 | —  | V62CB11A—...               |
| 13  | 218  | 109  | 49   | 4,5 | —   | 12  | 108 | 36   | 55   | 44   | 32   | 78   | 28  | 34  | 4,5 | 8,0 | —  | 24 | 26 | —  | V62CC11A—...               |
| 14  | 257  | 128,5| 76   | 7,0 | 60  | 19  | 146 | 52   | 65   | —    | 38   | —   | 146 | 52  | 65  | —   | 35 | 5,5 | 46 | 38 | 57,5 | 3  | 115 | V63D511A—...              |

### Anmerkungen:
- Gefasste Spulenentlüftung (M5)
- Handhilfsbetätigung
- V62: Nur zentrale Befestigungsbohrung (ohne linke Bohrung)
Elektropneumatisch & pneumatisch betätigte Kolbenschieberventile

Abmessungen in mm
Projection/First angle

<table>
<thead>
<tr>
<th>Nr.</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>Ø D</th>
<th>E</th>
<th>F</th>
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Konstruktionsänderungen vorbehalten. (2002 - 5060) © 2015 Norgren GmbH
Elektropneumatisch & pneumatisch betätigte Kolbenschieberventile

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2. Alternative Steuerlufanschlüsse G1/8 oder 1/8-27 NPT
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Elektropneumatisch & pneumatisch betätigte Kolbenschieberventile

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Konstruktionsänderungen vorbehalten. (2002 - 5060f) © 2015 Norgren GmbH
Elektropneumatisch & pneumatisch betätigte Kolbenschieberventile

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Elektropneumatisch & pneumatisch betätigte Kolbenschieberventile

Abmessungen in mm (Projection/First angle)

| Nr. | A     | B     | C    | D    | E    | F    | G    | H    | I    | J    | K    | L    | M    | N    | O    | P    | Q    | R    | U    | V    | W    | X    | Typ            |
|-----|-------|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 46  | 118,5 | 66    | 32,5 | 4,5  | 33,5 | 8    | 71   | 14   | 26   | 35   | 28   | —    | 50   | G1/8 | 43,5 | 17   | 22   | 3,2  | 6,5  | —    | 16   | —    | V60A6DDA—... |
| 46  | 118,5 | 66    | 32,5 | 4,5  | 33,5 | 8    | 71   | 14   | 26   | 35   | 28   | —    | 50   | G1/8 | 43,5 | 17   | 22   | 3,2  | 6,5  | —    | 16   | —    | V60A7DDA—... |
| 46  | 142   | 80    | 42   | 4,5  | 44   | 10   | 90   | 18   | 26   | 40   | 28   | —    | 66   | G1/4 | 53   | 20   | 25   | 3,2  | 6,5  | 21   | —    | V61B6DDA—... |
| 46  | 142   | 80    | 42   | 4,5  | 44   | 10   | 90   | 18   | 26   | 40   | 28   | —    | 66   | G1/4 | 53   | 20   | 25   | 3,2  | 6,5  | 21   | —    | V61B7DDA—... |
| 47  | 170,5 | 96,5  | 49   | 4,5  | 26   | 12   | 108  | 22,5 | 36   | 55   | 44   | 33,5 | 78   | G3/8 | 64   | 28   | 34   | 4,5  | 8,0  | 24,5 | —    | V62C6DDA—... |
| 47  | 170,5 | 96,5  | 49   | 4,5  | 26   | 12   | 108  | 22,5 | 36   | 55   | 44   | 33,5 | 78   | G3/8 | 64   | 28   | 34   | 4,5  | 8,0  | 24,5 | —    | V62C7DDA—... |
| 47  | 170,5 | 96,5  | 49   | 4,5  | 26   | 12   | 108  | 22,5 | 36   | 55   | 44   | 33,5 | 78   | G3/8 | 64   | 28   | 34   | 4,5  | 8,0  | 24,5 | —    | V62C8DDA—... |
| 48  | 216   | 108   | 66   | 7,0  | 34   | 16   | 180  | —    | 50   | 70   | —    | 41   | G1/2 | 98   | —    | 40   | —    | 21   | 33   | 44   | V63E6DDA—... |
| 48  | 216   | 108   | 66   | 7,0  | 34   | 16   | 180  | —    | 50   | 70   | —    | 41   | G1/2 | 98   | —    | 40   | —    | 21   | 33   | 44   | V63E7DDA—... |

1. Steuerluftanschlüsse G1/8 oder 1/8-27 NPT
2. Alternative Steuerluftanschlüsse G1/8 oder 1/8-27 NPT

Konstruktionsänderungen vorbehalten. (2002 - 5060f) © 2015 Norgren GmbH
Montageanweisung

Druckabsperrteil

1. Positionieren des Stopfens im P-Kanal der Batterie an der gewünschten Sperrstelle.
2. Fixieren des Stopfens durch Einstecken der beiden Buchsen.
3. Montage der Ventile auf der Grundplatte (Buchsen ragen in die Anschlussgewinde).
Erweiterungsmöglichkeiten

der Sammelgrundplatten

Anzugmomente für Plattenmontage

und Verkettung

M3 = 0,7 +0,3 Nm
M4 = 1,6 +0,5 Nm
M5 = 3,4 +0,5 Nm
M6 = 5,2 +0,5 Nm

Befestigungssatz

für DIN-Schiene
### Sammelanschlussleiste

Abmessungen in mm

**DE - Deutsch**

Sicherheitshinweise

Diese Produkte sind ausschließlich in Druckluftsystemen zu verwenden. Sie sind dort einzusetzen, wo die unter »Technische Merkmale/Daten« aufgeführten Werte nicht überschritten werden.

Berücksichtigen Sie bitte die entsprechende Katalogseite. Vor dem Einsatz der Produkte bei nicht industriellen Anwendungen, in lebenserhaltenden oder anderen Systemen, die nicht in den veröffentlichten Anleitungsunterlagen enthalten sind, wenden Sie sich bitte direkt an IMI Precision Engineering, Norgren GmbH.


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**Table: Elektropneumatisch & pneumatisch betätigte Kolbenschieberventile**

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<th>Serie</th>
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<th>B</th>
<th>C</th>
<th>D</th>
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