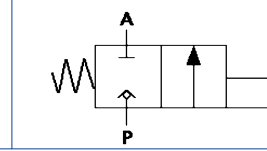
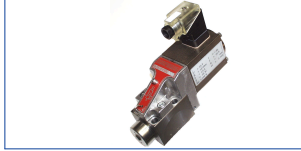


## Produktübersicht

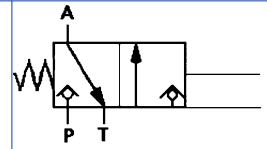
Seite 1 / 5

**1**  
2/2  
direktgesteuertes  
Wege-Sitzventil



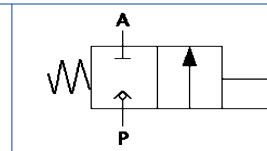
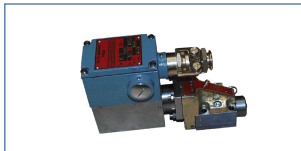
| Benennung | Wegeausführung | Max. Druck bar | Durchfluss (l/min.)<br>bei $p = 5 \text{ bar}$ | Block aufbau | Blockeinbau | Gewinde | Flansch | Sandwich | EMagnet | mechanisch | hydraulisch | pneumatisch |
|-----------|----------------|----------------|------------------------------------------------|--------------|-------------|---------|---------|----------|---------|------------|-------------|-------------|
| HFA       |                | 320            | 3,5                                            |              |             |         |         |          |         |            |             |             |
| Wasser    | 3              | 320            |                                                |              |             |         |         |          |         |            |             |             |
| Öl        |                | 320            |                                                | X            |             |         |         | X        | X       | X          | X           | X           |
| Luft      | 6              | 100            | 15                                             |              |             |         |         |          |         |            |             |             |
| Gas       |                | 100            |                                                |              |             |         |         |          |         |            |             |             |

**2**  
3/2  
direktgesteuertes  
Wege-Sitzventil



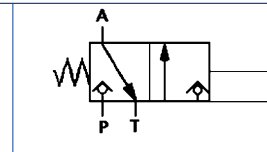
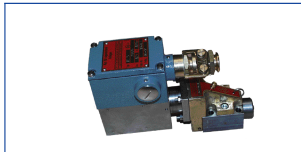
|        |   |     |     |   |  |  |  |   |   |   |   |   |
|--------|---|-----|-----|---|--|--|--|---|---|---|---|---|
| HFA    |   | 320 | 3,5 |   |  |  |  |   |   |   |   |   |
| Wasser | 3 | 320 |     |   |  |  |  |   |   |   |   |   |
| Öl     |   | 320 |     | X |  |  |  | X | X | X | X | X |
| Luft   | 6 | 100 | 15  |   |  |  |  |   |   |   |   |   |
| Gas    |   | 100 |     |   |  |  |  |   |   |   |   |   |

**3**  
2/2  
Eigensichere  
direktgesteuerte  
Wege-Sitzventile



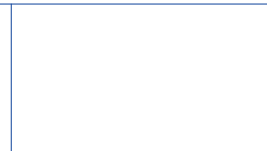
|        |   |     |  |   |  |  |  |   |  |  |  |  |
|--------|---|-----|--|---|--|--|--|---|--|--|--|--|
| HFA    |   |     |  |   |  |  |  |   |  |  |  |  |
| Wasser |   |     |  |   |  |  |  |   |  |  |  |  |
| Öl     | 3 | 220 |  | X |  |  |  | X |  |  |  |  |
| Luft   |   |     |  |   |  |  |  |   |  |  |  |  |
| Gas    |   |     |  |   |  |  |  |   |  |  |  |  |

**4**  
3/2  
Eigensichere  
direktgesteuerte  
Wege-Sitzventile



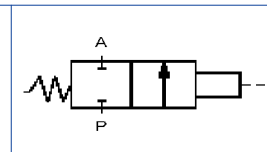
|        |   |     |  |   |  |  |  |   |  |  |  |  |
|--------|---|-----|--|---|--|--|--|---|--|--|--|--|
| HFA    |   |     |  |   |  |  |  |   |  |  |  |  |
| Wasser |   |     |  |   |  |  |  |   |  |  |  |  |
| Öl     | 3 | 220 |  | X |  |  |  | X |  |  |  |  |
| Luft   |   |     |  |   |  |  |  |   |  |  |  |  |
| Gas    |   |     |  |   |  |  |  |   |  |  |  |  |

**5**  
Betätigungsmagnete



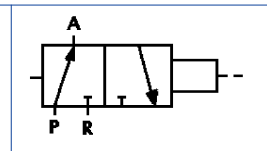
|  |  |  |  |  |  |  |  |  |  |  |  |  |
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**6**  
2/2  
vorgesteuertes  
Wege-Sitzventil



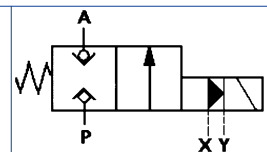
|        |   |     |  |   |  |  |  |   |   |   |   |   |
|--------|---|-----|--|---|--|--|--|---|---|---|---|---|
| HFA    |   |     |  |   |  |  |  |   |   |   |   |   |
| Wasser | 9 | 320 |  | X |  |  |  | X | X | X | X | X |
| Öl     |   |     |  |   |  |  |  |   |   |   |   |   |
|        |   |     |  |   |  |  |  |   |   |   |   |   |

**7**  
3/2  
vorgesteuertes  
Wege-Sitzventil



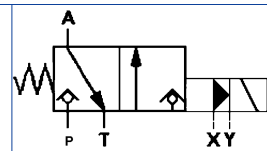
|        |   |     |  |   |  |  |  |   |   |   |   |   |
|--------|---|-----|--|---|--|--|--|---|---|---|---|---|
| HFA    |   |     |  |   |  |  |  |   |   |   |   |   |
| Wasser | 9 | 320 |  | X |  |  |  | X | X | X | X | X |
| Öl     |   |     |  |   |  |  |  |   |   |   |   |   |
|        |   |     |  |   |  |  |  |   |   |   |   |   |

**8**  
2/2  
vorgesteuertes  
Wege-Sitzventil



|        |    |     |  |   |  |  |  |   |   |   |   |   |
|--------|----|-----|--|---|--|--|--|---|---|---|---|---|
| HFA    |    |     |  |   |  |  |  |   |   |   |   |   |
| Wasser | 10 | 320 |  | X |  |  |  | X | X | X | X | X |
| Öl     |    |     |  |   |  |  |  |   |   |   |   |   |
|        |    |     |  |   |  |  |  |   |   |   |   |   |

**9**  
3/2  
vorgesteuertes  
Wege-Sitzventil



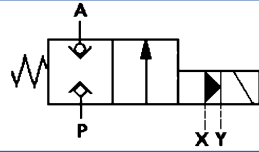
|        |    |     |  |   |  |  |  |   |   |   |   |   |
|--------|----|-----|--|---|--|--|--|---|---|---|---|---|
| HFA    |    |     |  |   |  |  |  |   |   |   |   |   |
| Wasser | 10 | 320 |  | X |  |  |  | X | X | X | X | X |
| Öl     |    |     |  |   |  |  |  |   |   |   |   |   |
|        |    |     |  |   |  |  |  |   |   |   |   |   |

## Produktübersicht

Seite 2/5

**10**

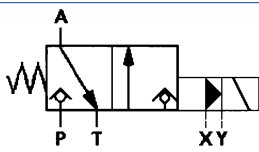
2/2  
vorgesteuertes  
Wege-Sitzventil



| Benennung | Wegeausführung | Max. Druck bar | Durchfluss (l/min)<br>bei $p = 5 \text{ bar}$ | Block-aufbau | Blockfeinbau | Gewinde | Flansch | Sandwich | E-Magnet | mechanisch | hydraulisch | pneumatisch |
|-----------|----------------|----------------|-----------------------------------------------|--------------|--------------|---------|---------|----------|----------|------------|-------------|-------------|
| HFA       | 15             |                | 150                                           | X            | X            |         |         |          |          |            |             |             |
| Wasser    | 25             | 320            | 380                                           | X            | X            |         |         | X        | X        | X          | X           | X           |
| Öl        | 432            |                | 625                                           | X            |              | X       |         |          |          |            |             |             |
|           | 40             |                | 1000                                          |              |              |         |         |          |          |            |             |             |

**11**

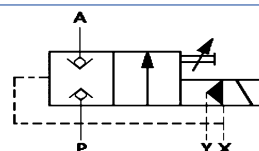
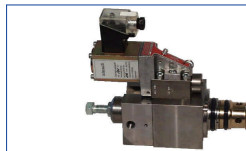
3/2  
vorgesteuertes  
Wege-Sitzventil



|        |    |     |      |   |   |   |  |   |   |   |   |   |
|--------|----|-----|------|---|---|---|--|---|---|---|---|---|
| HFA    | 15 |     | 150  | X | X |   |  |   |   |   |   |   |
| Wasser | 25 | 320 | 380  | X | X |   |  | X | X | X | X | X |
| Öl     | 32 |     | 625  | X |   | X |  |   |   |   |   |   |
|        | 40 |     | 1000 |   |   |   |  |   |   |   |   |   |

**12**

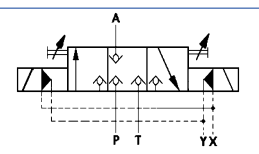
2/2  
vorgesteuertes  
Wege-Sitzventil



|        |     |     |       |  |   |  |  |   |   |   |   |   |
|--------|-----|-----|-------|--|---|--|--|---|---|---|---|---|
| HFA    | 16  |     | 150   |  |   |  |  |   |   |   |   |   |
| Wasser | bis | 320 | bis   |  | X |  |  | X | X | X | X | X |
| Öl     | 200 |     | 25000 |  |   |  |  |   |   |   |   |   |

**13**

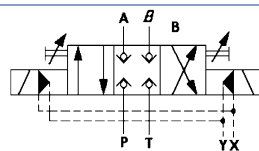
3/3  
vorgesteuertes  
Wege-Sitzventil



|        |    |     |      |  |   |  |  |   |   |   |   |   |
|--------|----|-----|------|--|---|--|--|---|---|---|---|---|
| HFA    | 25 |     | 380  |  |   |  |  |   |   |   |   |   |
| Wasser | 32 | 320 | 625  |  | X |  |  | X | X | X | X | X |
| Öl     | 40 |     | 1000 |  |   |  |  |   |   |   |   |   |

**14**

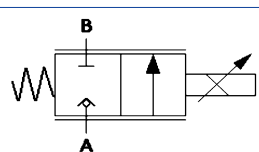
4/3  
vorgesteuertes  
Wege-Sitzventil



|        |    |     |      |  |   |  |  |   |   |   |   |   |
|--------|----|-----|------|--|---|--|--|---|---|---|---|---|
| HFA    | 25 |     | 380  |  |   |  |  |   |   |   |   |   |
| Wasser | 32 | 320 | 625  |  | X |  |  | X | X | X | X | X |
| Öl     | 40 |     | 1000 |  |   |  |  |   |   |   |   |   |

**15**

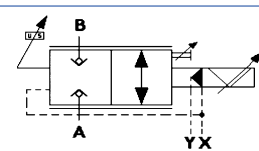
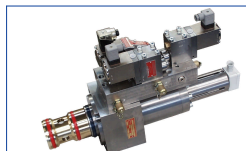
2/2  
direktgesteuertes  
Proportional-Sitzventil



|        |   |     |     |  |   |  |  |   |  |  |  |  |
|--------|---|-----|-----|--|---|--|--|---|--|--|--|--|
| HFA    | 3 |     | 3,5 |  |   |  |  |   |  |  |  |  |
| Wasser | 6 | 320 | 15  |  | X |  |  | X |  |  |  |  |

**16**

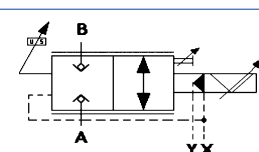
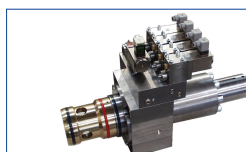
2/2  
vorgesteuertes  
Proportional-Sitzventil



|        |        |     |      |   |   |  |   |  |   |  |   |  |
|--------|--------|-----|------|---|---|--|---|--|---|--|---|--|
| HFA    | 10 bis |     | bis  |   |   |  |   |  |   |  |   |  |
| Wasser | 100    | 320 | 6000 | X | X |  | X |  | X |  | X |  |

**17**

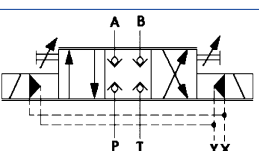
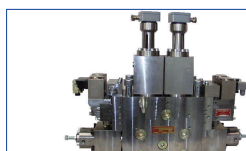
2/2  
vorgesteuertes  
Proportional-Sitzventil



|        |        |     |      |   |   |  |   |  |   |  |   |  |
|--------|--------|-----|------|---|---|--|---|--|---|--|---|--|
| HFA    | 10 bis |     | bis  |   |   |  |   |  |   |  |   |  |
| Wasser | 100    | 320 | 6000 | X | X |  | X |  | X |  | X |  |

**18**

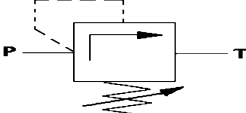
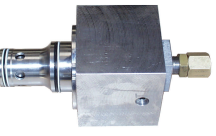
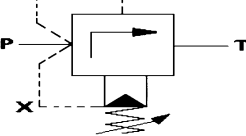
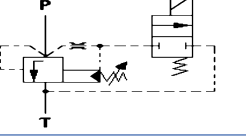
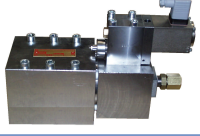
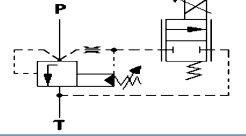
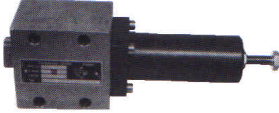
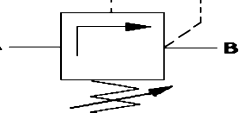
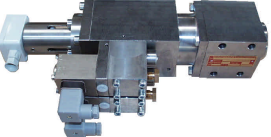
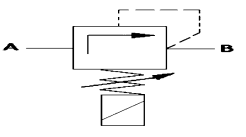
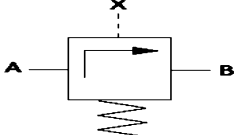
4/3  
vorgesteuertes  
Proportional-Sitzventil



|        |    |     |  |   |  |  |  |   |  |  |  |  |
|--------|----|-----|--|---|--|--|--|---|--|--|--|--|
| HFA    | 16 |     |  |   |  |  |  |   |  |  |  |  |
| Wasser | 25 | 320 |  | X |  |  |  | X |  |  |  |  |
| Öl     |    |     |  |   |  |  |  |   |  |  |  |  |

## Produktübersicht

Seite 3/5

| Produkt                                                                                                                                         | Symbol                                                                              | Benennung                                                                           | Wegeausführung | Max. Druck bar | Durchfluss (l/min.)<br>bei $\Delta p = 5 \text{ bar}$ | Block aufbau | Blockeinbau | Gewinde | Flansch | Sandwich | EMagnet | mechanisch | manuell | hydraulisch | pneumatisch |
|-------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------------|----------------|-------------------------------------------------------|--------------|-------------|---------|---------|----------|---------|------------|---------|-------------|-------------|
| 19<br>Positionsregelkarte BLS1<br>für Proportional-Ventile<br>zur Druck-, Geschwindig-<br>keits-, und Lageregelung<br>hydraulischer Verbraucher |    |                                                                                     |                |                |                                                       |              |             |         |         |          |         |            |         |             |             |
| 20<br>Komplette Systeme<br>bestehend aus<br>hydraulischen und<br>elektrischen/elektronischen<br>Steuerungen                                     |    |                                                                                     |                |                |                                                       |              |             |         |         |          |         |            |         |             |             |
| 21<br>2/2<br>direktgesteuertes<br>Druckbegrenzungsventil                                                                                        |    |    |                |                |                                                       |              |             |         |         |          |         |            |         |             |             |
| 22<br>2/2<br>vorgesteuertes<br>Druckbegrenzungsventil                                                                                           |   |   |                |                |                                                       |              |             |         |         |          |         |            |         |             |             |
| 23<br>2/2<br>vorgesteuertes<br>Druckbegrenzungsventil<br>mit elektrischer Entlastung                                                            |  |  |                |                |                                                       |              |             |         |         |          |         |            |         |             |             |
| 24<br>2/2<br>vorgesteuertes<br>Proportional-<br>Druckbegrenzungsventil                                                                          |  |  |                |                |                                                       |              |             |         |         |          |         |            |         |             |             |
| 25<br>2/2<br>Druckminderventil                                                                                                                  |  |  |                |                |                                                       |              |             |         |         |          |         |            |         |             |             |
| 26<br>2/2<br>elektrisch verstellbares<br>direktgesteuertes<br>Druckminderventil                                                                 |  |  |                |                |                                                       |              |             |         |         |          |         |            |         |             |             |
| 27<br>2/2<br>vorgesteuertes<br>Druckzuschaltventil                                                                                              |  |  |                |                |                                                       |              |             |         |         |          |         |            |         |             |             |

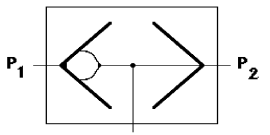
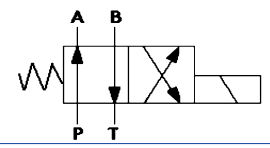
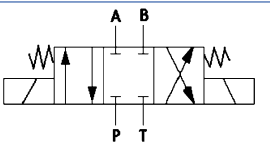
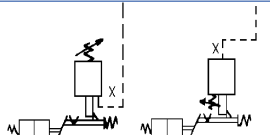
## Produktübersicht

Seite 4/5

| Produkt                                                | Symbol | Benennung                                        | Wegausführung | Max. Druck bar | Durchfluss (l/min.)<br>bei $\Delta p = 5 \text{ bar}$ | Block aufbau | Blockeinbau | Gewinde | Flansch | Sandwich | EMagnet | mechanisch | hydraulisch | pneumatisch |
|--------------------------------------------------------|--------|--------------------------------------------------|---------------|----------------|-------------------------------------------------------|--------------|-------------|---------|---------|----------|---------|------------|-------------|-------------|
| <b>28</b><br>2/2<br>Drosselrückschlagventil            |        | HFA 10 80<br>Wasser bis 320 bis<br>65 2750       |               |                |                                                       | X            | X           |         |         |          | X       |            |             |             |
| <b>29</b><br>2/2<br>Doppeldrossel-<br>Rückschlagventil |        | HFA 10 80<br>Wasser bis 320 bis<br>65 2750       |               |                |                                                       | X            | X           |         |         |          | X       |            |             |             |
| <b>30</b><br>2/2<br>Drosselventil                      |        | HFA 10 80<br>Wasser bis 320 bis<br>Öl 100 6000   |               |                |                                                       | X            |             |         |         |          | X       |            |             |             |
| <b>31</b><br>2/2<br>Absperrentil                       |        | HFA 10 80<br>Wasser bis 320 bis<br>Öl 80 4500    |               |                |                                                       | X            |             |         |         |          | X       | X          |             |             |
| <b>32</b><br>3/2<br>Füllventil                         |        | HFA 80 4000<br>Wasser bis 320 bis<br>Öl 300 5200 |               |                |                                                       | X            | X           | X       |         |          | X       |            |             |             |
| <b>33</b><br>2/2<br>Senk-Brems-Sperrventil             |        | HFA 12 90<br>Wasser bis 320 bis<br>Öl 80 4000    |               |                |                                                       | X            |             |         |         |          | X       |            |             |             |
| <b>34</b><br>2/2<br>Einbau-<br>Rückschlagventil        |        | HFA 10 80<br>Wasser bis 320 bis<br>Öl 100 6000   |               |                |                                                       | X            |             |         |         |          |         |            |             |             |
| <b>35</b><br>2/2<br>Rückschlagventil                   |        | HFA 10 80<br>Wasser bis 320 bis<br>Öl 150 14000  |               |                |                                                       | X            | X           |         |         |          |         |            |             |             |
| <b>36</b><br>2/2<br>entsperbares<br>Rückschlagventil   |        | HFA 12 90<br>Wasser bis 320 bis<br>Öl 100 6000   |               |                |                                                       | X            |             |         |         |          | X       |            |             |             |

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| Produkt                                                 | Symbol                                                                             | Benennung | Wegeausführung | Max. Druck bar | Durchfluss (l/min.)<br>bei $p = 5 \text{ bar}$ | Block aufbau | Blockeinbau | Gewinde | Flansch | Sandwich | EMagnet | mechanisch | hydraulisch | pneumatisch |
|---------------------------------------------------------|------------------------------------------------------------------------------------|-----------|----------------|----------------|------------------------------------------------|--------------|-------------|---------|---------|----------|---------|------------|-------------|-------------|
| <b>37</b><br>3/2<br>Wechselventil                       |   | HFA       | 3              | 640            | 3,5                                            |              |             |         |         |          |         |            |             |             |
|                                                         |                                                                                    | Wasser    | 6              | 320            | 15                                             | X            |             |         |         |          |         |            |             |             |
|                                                         |                                                                                    | Öl        | 10             |                | 80                                             |              |             |         |         |          |         |            |             |             |
|                                                         |                                                                                    |           |                |                |                                                |              |             |         |         |          |         |            |             |             |
|                                                         |                                                                                    |           |                |                |                                                |              |             |         |         |          |         |            |             |             |
| <b>38</b><br>4/2<br>direktgesteuertes<br>Schieberventil |   | HFA       | 4              |                | 13                                             |              |             |         |         |          |         |            |             |             |
|                                                         |                                                                                    |           | 6              | 160            | 30                                             | X            |             |         | X       |          |         | X          | X           |             |
|                                                         |                                                                                    |           | 10             |                | 75                                             |              |             |         |         |          |         |            |             |             |
|                                                         |                                                                                    |           |                |                |                                                |              |             |         |         |          |         |            |             |             |
|                                                         |                                                                                    |           |                |                |                                                |              |             |         |         |          |         |            |             |             |
| <b>39</b><br>4/3<br>direktgesteuertes<br>Schieberventil |   | HFA       | 4              |                | 13                                             |              |             |         |         |          |         |            |             |             |
|                                                         |                                                                                    |           | 6              | 160            | 30                                             | X            |             |         | X       |          |         | X          | X           |             |
|                                                         |                                                                                    |           | 10             |                | 75                                             |              |             |         |         |          |         |            |             |             |
|                                                         |                                                                                    |           |                |                |                                                |              |             |         |         |          |         |            |             |             |
|                                                         |                                                                                    |           |                |                |                                                |              |             |         |         |          |         |            |             |             |
| <b>40</b><br>2/2<br>3/2<br>Druckschalter                |  | HFA       |                | 320            |                                                |              |             |         |         |          |         |            |             |             |
|                                                         |                                                                                    | Wasser    | 3              | 320            |                                                |              |             |         |         |          |         |            |             |             |
|                                                         |                                                                                    | Öl        |                | 320            |                                                |              |             |         |         |          |         |            |             |             |
|                                                         |                                                                                    | Luft      | 6              | 100            |                                                | x            |             |         |         |          |         |            |             |             |
|                                                         |                                                                                    | Gas       |                | 100            |                                                |              |             |         |         |          |         |            |             |             |