

3/2-Way Valve

7080

SCHUBERT & SALZER
**CONTROL
SYSTEMS**

DN 15 up to DN 40

**Pneumatically operated 3/2-way valve for the control of neutral and slightly aggressive media.
(Stainless steel version, Data sheet Type 7081)**

- Compact design
- Unaffected by lightly contaminated media
- For temperatures from -30°C up to +200°C
- Working pressure up to 16 bar
- Versatile actuators in different sizes

Technical Information

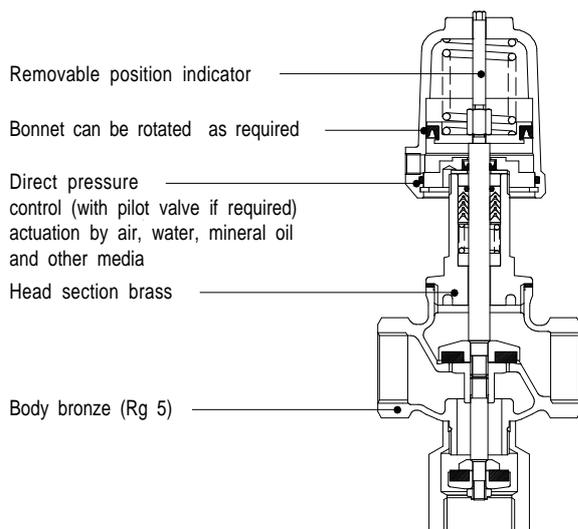
| | |
|--|--|
| Body material | bronze Rg5 |
| Nominal sizes | DN 15 to DN 40 |
| Connections | Pipe thread acc. DIN 2999 Rp 1/2" - 1 1/2" NPT thread 1/2" - 1 1/2" |
| Nominal pressure | PN 16 |
| Max. fluid temperature: with metal bonnet | -30°C up to +170°C, opt. +200°C |
| with plastic bonnet | -30°C up to 135°C |
| Ambient temperature | -30°C to +60°C |
| Viscosity of the media | maximum 600 mm ² /s (600cSt, 80°E) |



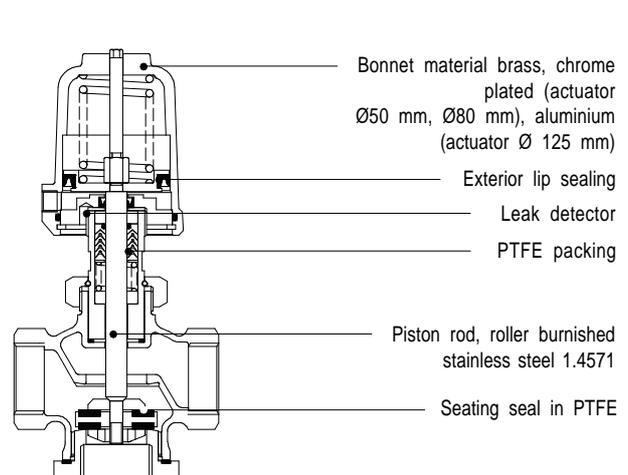
Options

- limit switches
 - inductive proximity switch
 - electrical switch
 - pneumatic switch
- pilot valves
- additional manual operation
- version free of oil and grease

normal function, normally closed

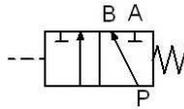


distributing, mixing function and shut - off function

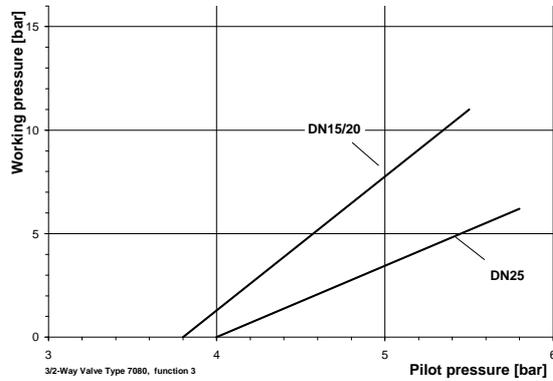


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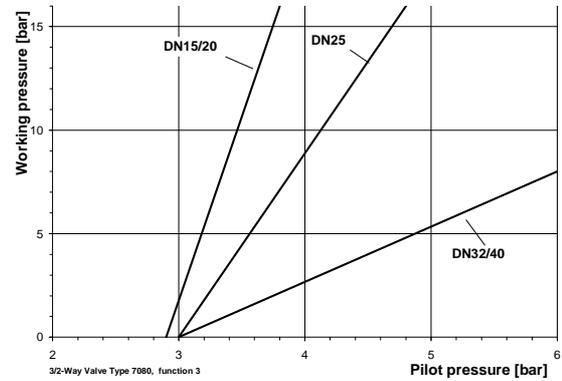
3/2-Way Valve, Distributing function (3)



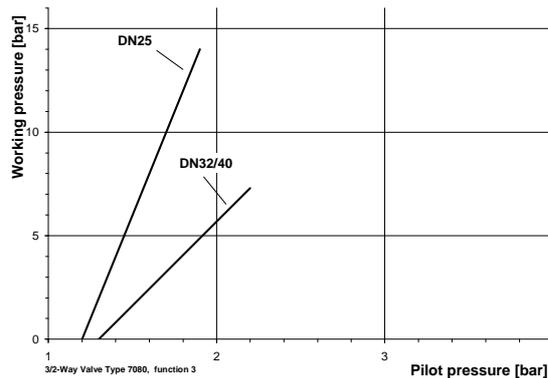
Actuator diameter 50 mm



Actuator diameter 80 mm



Actuator diameter 125 mm

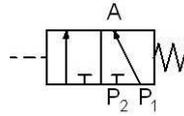


max. adm. pilot pressure

| Nominal size DN | Actuator Ø mm | Springs | max. Pilot pressure (bar) |
|-----------------|---------------|---------|---------------------------|
| 15/20 | 50 | 1 | 9 |
| 15/20 | 80 | 1 | 7 |
| 25 | 50 | 1 | 9 |
| 25 | 80 | 1 | 7 |
| 25 | 125 | 1 | 2,8 |
| 32/40 | 80 | 1 | 7 |
| 32/40 | 125 | 1 | 3 |

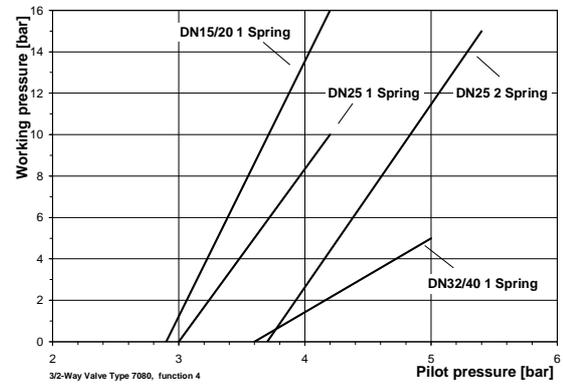
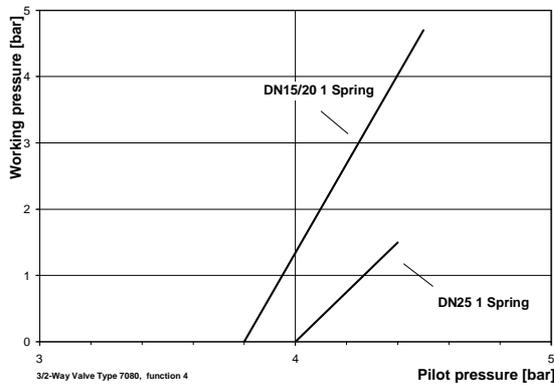
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3/2-Way Valve, Mixing function (4)

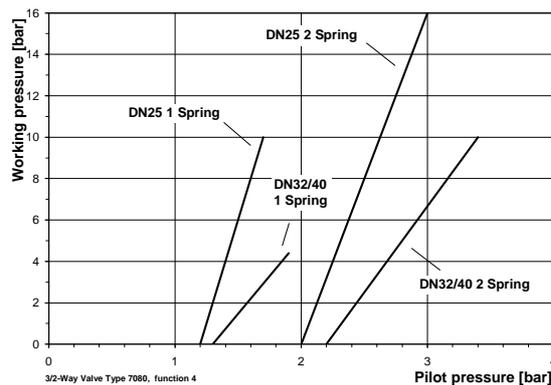


Actuator diameter 50 mm

Actuator diameter 80 mm



Actuator diameter 125 mm

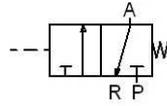


max. adm. pilot pressure

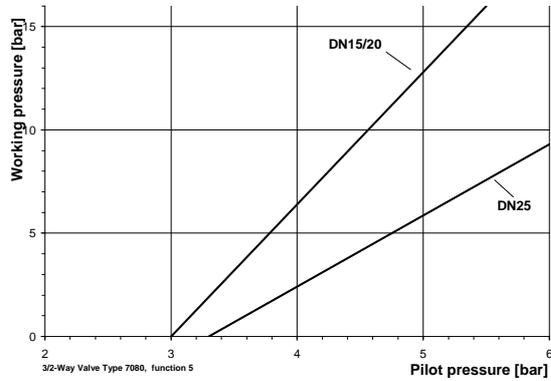
| Nominal size DN | Actuator Ø mm | Springs | max. Pilot pressure (bar) |
|-----------------|---------------|---------|---------------------------|
| 15/20 | 50 | 1 | 9,8 |
| 15/20 | 80 | 1 | 7,2 |
| 25 | 50 | 1 | 9,8 |
| 25 | 80 | 1 | 7,2 |
| 25 | 80 | 2 | 7,9 |
| 25 | 125 | 1 | 2,8 |
| 25 | 125 | 2 | 3,6 |
| 32/40 | 80 | 1 | 7,7 |
| 32/40 | 125 | 1 | 3 |
| 32/40 | 125 | 2 | 3,9 |

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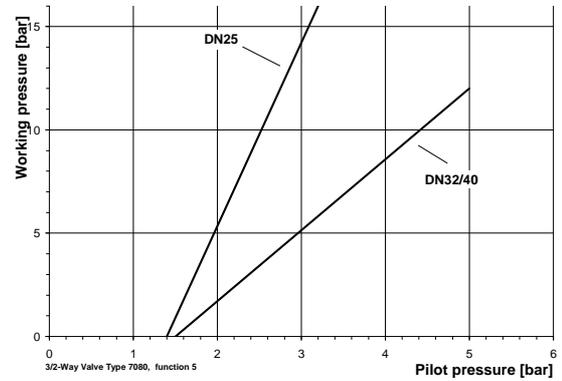
3/2-Way Valve, actuator: normally closed (5)



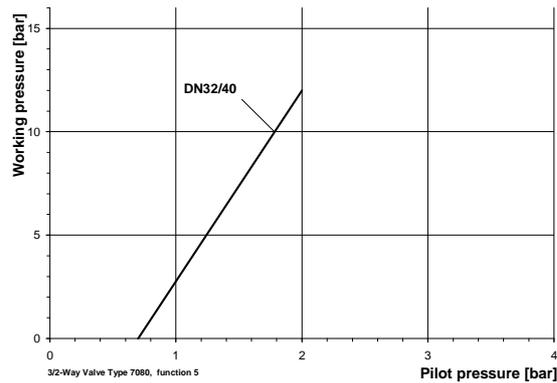
Actuator diameter 50 mm



Actuator diameter 80 mm



Actuator diameter 125 mm

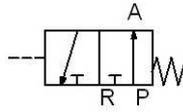


max. adm. pilot pressure

| Nominal size DN | Actuator Ø mm | max. Pilot pressure (bar) |
|-----------------|---------------|---------------------------|
| 15/20 | 50 | 9 |
| 25 | 50 | 9 |
| 25 | 80 | 5 |
| 32/40 | 80 | 5 |
| 32/40 | 125 | 2 |

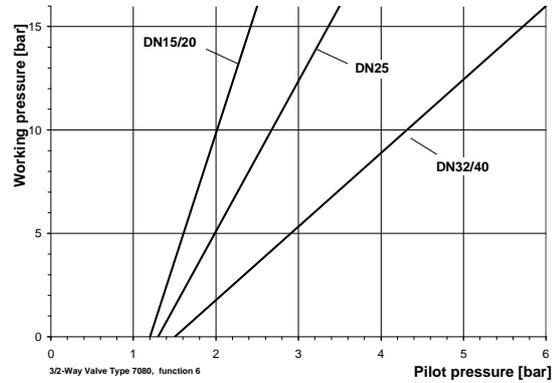
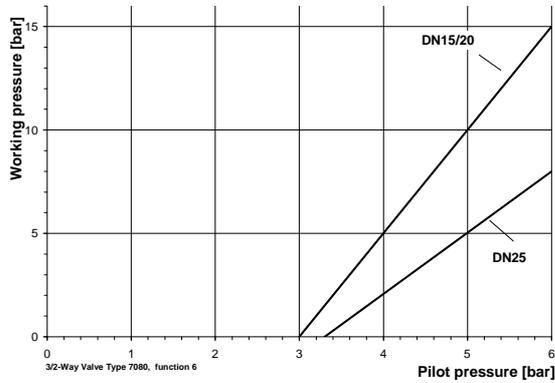
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3/2-Way Valve, actuator: normally open (6)

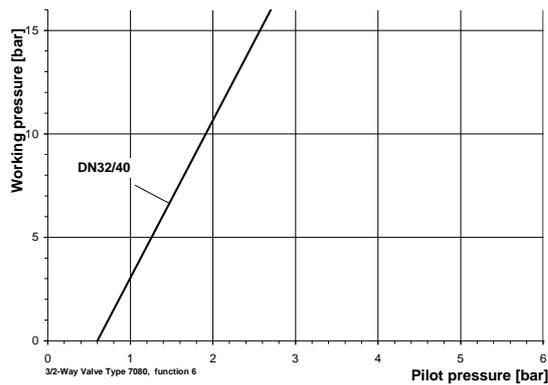


Actuator diameter 50 mm

Actuator diameter 80 mm



Actuator diameter 125 mm

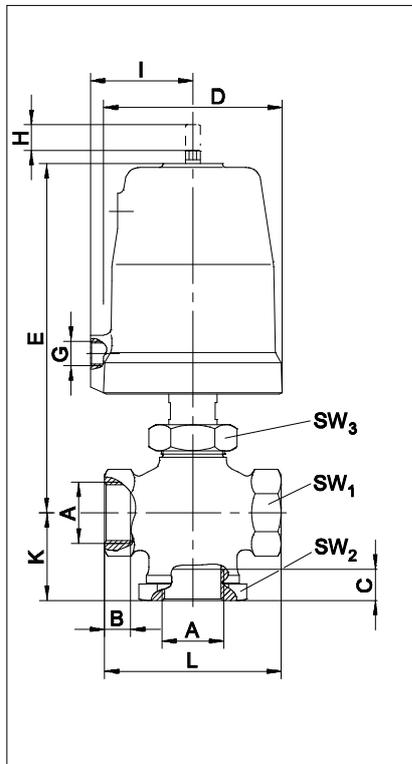


max. adm. pilot pressure

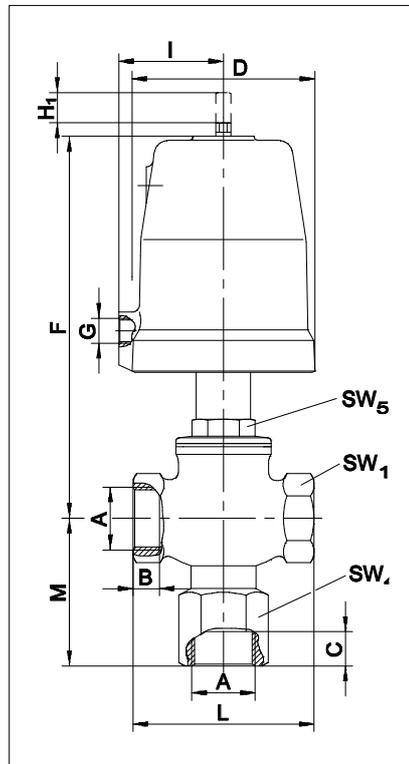
| Nominal size DN | Actuator Ø mm | max. Pilot pressure (bar) |
|-----------------|---------------|---------------------------|
| 15/20 | 50 | 9 |
| 15/20 | 80 | 5 |
| 25 | 50 | 9 |
| 25 | 80 | 6,4 |
| 25 | 125 | 2,6 |
| 32 | 125 | 3,8 |

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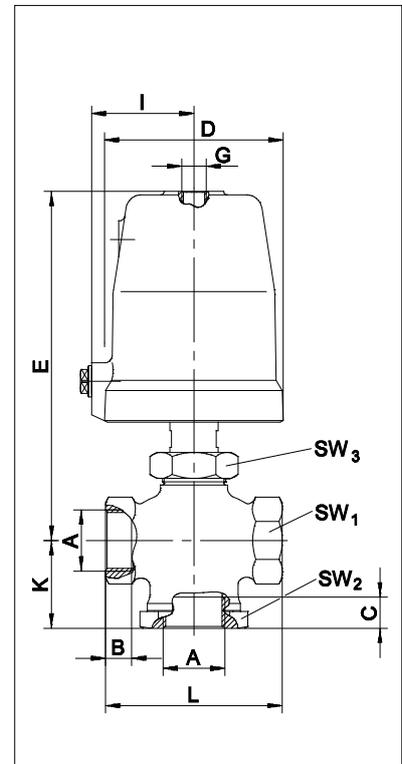
Dimensions and Weights



**distributing and mixing function
shut - off function (7)**



**normal function,
normally closed**

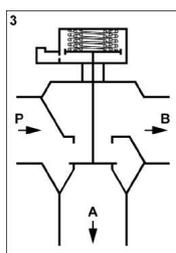


**normal function,
normally open**

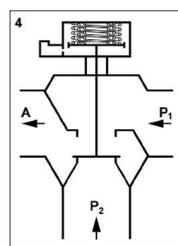
| Size | piston | A | B | C Rp | C NPT | D | E | F | G | H stroke | H1 stroke | I | K | L | M | SW1 | SW2 | SW3 | SW4 | SW5 | Kvs value | Weight kg |
|------|--------|----------|----|------|-------|-----|-----|-----|--------|----------|-----------|------|----|-----|----|-----|-----|-----|-----|-----|-----------|-----------|
| 15 | 50 | Rp1/2" | 13 | 13,2 | 15 | 62 | 152 | 147 | G 1/8" | 9 | 5 | 34,5 | 39 | 80 | 68 | 33 | 41 | 41 | 36 | 30 | 5,3 | 1,5 |
| 15 | 80 | Rp1/2" | 13 | 13,2 | 15 | 98 | 191 | 186 | G 1/4" | 9 | 5 | 55 | 39 | 80 | 68 | 33 | 41 | 41 | 36 | 30 | 5,3 | 3,1 |
| 20 | 50 | Rp3/4" | 13 | 16,3 | 15 | 62 | 152 | 147 | G 1/8" | 9 | 5 | 34,5 | 42 | 80 | 68 | 33 | 41 | 41 | 36 | 30 | 7,3 | 1,5 |
| 20 | 80 | Rp3/4" | 13 | 16,3 | 15 | 98 | 191 | 186 | G 1/4" | 9 | 5 | 55 | 42 | 80 | 68 | 33 | 41 | 41 | 36 | 30 | 7,3 | 3,1 |
| 25 | 50 | Rp1" | 14 | 16,8 | 18 | 62 | 152 | 165 | G 1/8" | 11 | 8 | 34,5 | 47 | 95 | 73 | 41 | 55 | 41 | 41 | 30 | 12,3 | 1,9 |
| 25 | 80 | Rp1" | 14 | 16,8 | 18 | 98 | 191 | 204 | G 1/4" | 11 | 8 | 55 | 47 | 95 | 73 | 41 | 55 | 41 | 41 | 30 | 12,3 | 3,5 |
| 25 | 125 | Rp1" | 14 | 16,8 | 18 | 146 | 215 | 228 | G 1/4" | 11 | 8 | 80 | 47 | 95 | 73 | 41 | 55 | 41 | 41 | 30 | 12,3 | 5,6 |
| 32 | 80 | Rp1 1/4" | 18 | 19 | 19 | 98 | 208 | 211 | G 1/4" | 18,5 | 9 | 55 | 61 | 132 | 93 | 58 | 75 | 41 | 55 | 32 | 20 | 4,8 |
| 32 | 125 | Rp1 1/4" | 18 | 19 | 19 | 146 | 232 | 235 | G 1/4" | 18,5 | 9 | 80 | 61 | 132 | 93 | 58 | 75 | 41 | 55 | 32 | 20 | 6,7 |
| 40 | 80 | Rp1 1/2" | 18 | 19 | 19 | 98 | 208 | 211 | G 1/4" | 18,5 | 9 | 55 | 61 | 132 | 93 | 58 | 75 | 41 | 55 | 32 | 23 | 4,8 |
| 40 | 125 | Rp1 1/2" | 18 | 19 | 19 | 146 | 232 | 235 | G 1/4" | 18,5 | 9 | 80 | 61 | 132 | 93 | 58 | 75 | 41 | 55 | 32 | 23 | 6,7 |

Dimensions in mm

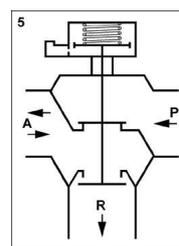
Versions



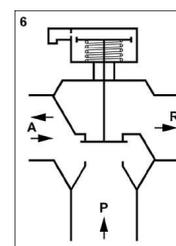
distributing function



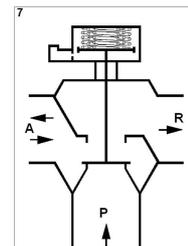
mixing function



actuator NC



actuator NO



shut - off function NC