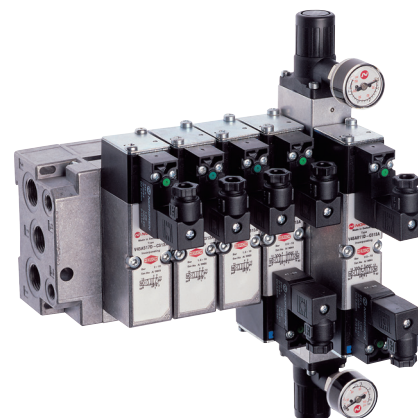


## V44/V45, 2 x 3/2, 5/2 & 5/3 Mini ISO Valves



- > 2 x 3/2, 5/2 and 5/3 valves, ISO 15407-1/VDMA 24 563, Size 26 mm
  - > Solenoid and pilot actuated
  - > High performance, compact design
  - > Flexible sub-base system
  - > Multipressure system capability
  - > Dual spool technology:
- V44 Glandless spool and sleeve (long life)
  - V45 Softseal spool (high flow)
  - > Collected pilot exhaust with internal pilot air supply
  - > Easy to convert from internal to external pilot supply
  - > Valve exchange under pressure



### Technical features

#### Medium:

Compressed air, filtered to 40 µm, lubricated or non-lubricated

#### Operation:

V44: Glandless spool valve, solenoid pilot or air pilot actuated

V45: Softseal spool valve, solenoid pilot or air pilot actuated

#### Flow:

V45 Softseal:

| Function l/min | Cv   | Kv   |
|----------------|------|------|
| 2x3/2 NC1100   | 1,12 | 0,96 |
| 2X3/2 NO       | 1000 | 0,98 |
| 0,87           |      |      |

|     |      |      |      |
|-----|------|------|------|
| 5/2 | 1200 | 1,22 | 1,05 |
| 5/3 | 1150 | 1,17 | 1,00 |

V44 Glandless:

| Function l/min | Cv  | Kv   |
|----------------|-----|------|
| 5/2            | 900 | 0,92 |
| 5/3            | 900 | 0,92 |

#### Mounting:

Sub-base

#### Operating pressure:

See tables for individual details

#### Media/Ambient temperature:

-15 ... +50°C (+5 ... 122°F)

V44/V45 solenoid and V45 air pilot models

-15 ... +80°C (+5 ... 176°F)

V44 air pilot models

Air supply must be dry enough to avoid ice formation at temperatures below +2°C (+35°F).

#### Materials:

Body: die-cast aluminium

Sub-bases: aluminium alloy

Spool and sleeve: hard anodized, Teflon coated, matched aluminium

(V44); aluminium alloy spool with HNBR Seals (V45)

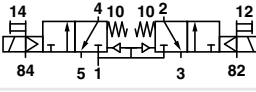
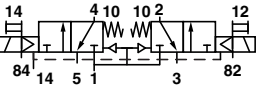
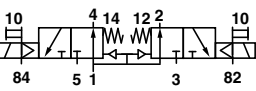
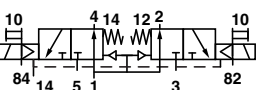
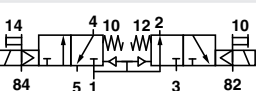
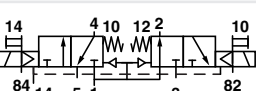
Plastic parts: POM

Static seals: NBR

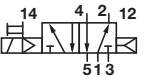
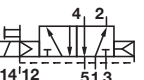
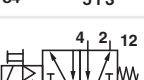
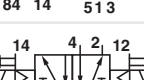
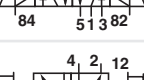
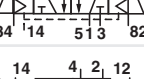
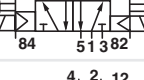
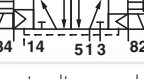
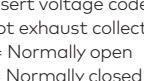
End cover and screws: zinc plated

Springs: stainless steel

## 2 x 3/2 Solenoid pilot actuated softseal valves

| Symbol                                                                           | Function<br>2 x 3/2 | Actuation/<br>return | Pilot<br>supply | Pilot<br>exhaust | Operating<br>pressure (bar) | Pilot pressure<br>(bar)           | Flow<br>(l/min) | Model        |
|----------------------------------------------------------------------------------|---------------------|----------------------|-----------------|------------------|-----------------------------|-----------------------------------|-----------------|--------------|
|  | NC                  | Solenoid/Spring      | Internal        | Collected #      | 3 ... 10                    | –                                 | 1000            | V45AA11D-*1) |
|  | NC                  | Solenoid/Spring      | External        | Not collected    | 0 ... 10                    | 1,5 + (0,35 x operating pressure) | 1000            | V45AA22D-*1) |
|  | NO                  | Solenoid/Spring      | Internal        | Collected #      | 3 ... 10                    | –                                 | 1000            | V45AB11D-*1) |
|  | NO                  | Solenoid/Spring      | External        | Not collected    | 0 ... 10                    | 1,5 + (0,35 x operating pressure) | 1000            | V45AB22D-*1) |
|  | NO/NC               | Solenoid/Spring      | Internal        | Collected #      | 3 ... 10                    | –                                 | 1000/1100       | V45AC11D-*1) |
|  | NO/NC               | Solenoid/Spring      | External        | Not collected    | 0 ... 10                    | 1,5 + (0,35 x operating pressure) | 1000/1100       | V45AC22D-*1) |

## 5/2 Solenoid pilot actuated glandless and softseal valves

| Symbol                                                                              | Pilot<br>supply | Pilot<br>exhaust | Operator<br>14      | Operator<br>12 | Operating pressure<br>(bar) | Pilot pressure<br>(bar) | Sealing<br>system | Flow<br>(l/min) | Model        |
|-------------------------------------------------------------------------------------|-----------------|------------------|---------------------|----------------|-----------------------------|-------------------------|-------------------|-----------------|--------------|
|  | Internal        | Collected #      | Solenoid            | Air spring     | 1 ... 10                    | –                       | Glandless         | 900             | V44A513D-*1) |
|  | External        | Not collected    | Solenoid            | Air spring     | -0,9 ... 16                 | 1 ... 10                | Glandless         | 900             | V44A523D-*1) |
|  | Internal        | Collected #      | Solenoid            | Spring         | 1,6 ... 10                  | –                       | Glandless         | 900             | V44A517D-*1) |
|  | Internal        | Collected #      | Solenoid            | Spring         | 2 ... 10                    | –                       | Softseal          | 1200            | V45A517D-*1) |
|  | External        | Not collected    | Solenoid            | Spring         | -0,9 ... 16                 | 1,6 ... 10              | Glandless         | 900             | V44A527D-*1) |
|  | External        | Not collected    | Solenoid            | Spring         | -0,9 ... 10                 | 2 ... 10                | Softseal          | 1200            | V45A527D-*1) |
|  | Internal        | Collected #      | Solenoid            | Solenoid       | 2 ... 10                    | –                       | Glandless         | 900             | V44A511D-*1) |
|  | Internal        | Collected #      | Solenoid            | Solenoid       | 2 ... 10                    | –                       | Softseal          | 1200            | V45A511D-*1) |
|  | External        | Not collected    | Solenoid            | Solenoid       | -0,9 ... 16                 | 2 ... 10                | Glandless         | 900             | V44A522D-*1) |
|  | External        | Not collected    | Solenoid            | Solenoid       | -0,9 ... 10                 | 2 ... 10                | Softseal          | 1200            | V45A522D-*1) |
|  | Internal        | Collected #      | Solenoid (priority) | Solenoid       | 2 ... 10                    | –                       | Glandless         | 900             | V44A591D-*1) |
|  | External        | Not collected    | Solenoid (priority) | Solenoid       | -0,9 ... 16                 | 2 ... 10                | Glandless         | 900             | V44A592D-*1) |

\*1) Insert voltage code from tables on page 3

# Pilot exhaust collected and exhausted via port 14

NO = Normally open

NC = Normally closed