Sistemas y Tecnología del agua / Water System Technology

ANGLE SEAT VALVE

Fertigation Systems

Hidroten **angle seat valves** are designed to accurately regulate and maintain injection flow rates, ensuring more stable and efficient system performance.

Their linear relationship between valve opening and flow rate provides smooth and precise control, making them ideal for applications where accurate flow regulation is critical.

Features

- Precise adjustment and locking of the injection flow rate.
- Excellent sealing performance, even under the negative pressures generated by the Venturi effect.
- Available in two versions: MATIC and MATIC L.
- 3 nominal sizes: Ø20 mm (DN 15), Ø25 mm (DN 20) and Ø32 mm (DN 25).
- Four connection options: solvent weld, male solvent weld, female threaded and male threaded.
- Stem with opening position markings for accurate adjustment.
- Ø20 mm version features an optimised taper between the closing sleeve and body seat for enhanced flow control accuracy.
- Cone-to-body sealing design.
- Low pressure loss.
- Nominal pressure: PN 16 bar.

Applications

Recommended for manual and automatic fertigation systems, water treatment installations and industrial processes.

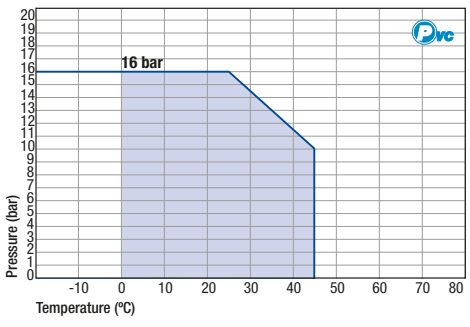
FLOW COEFFICIENT

D	20	25	32
DN	15	20	25
Kv100	5,83	8,87	16,24

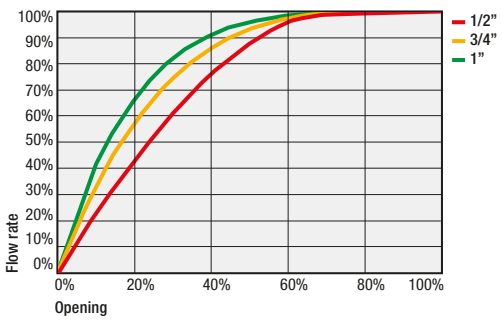
The Kv flow coefficient is the flow rate in m³/h at a temperature of 20°C that produces a pressure loss of 1 bar at a given valve opening.

The Kv values shown in the table above have been calculated with the valve fully open.

PRESSURE/TEMPERATURE



FLOW CHARACTERISTIC CURVES



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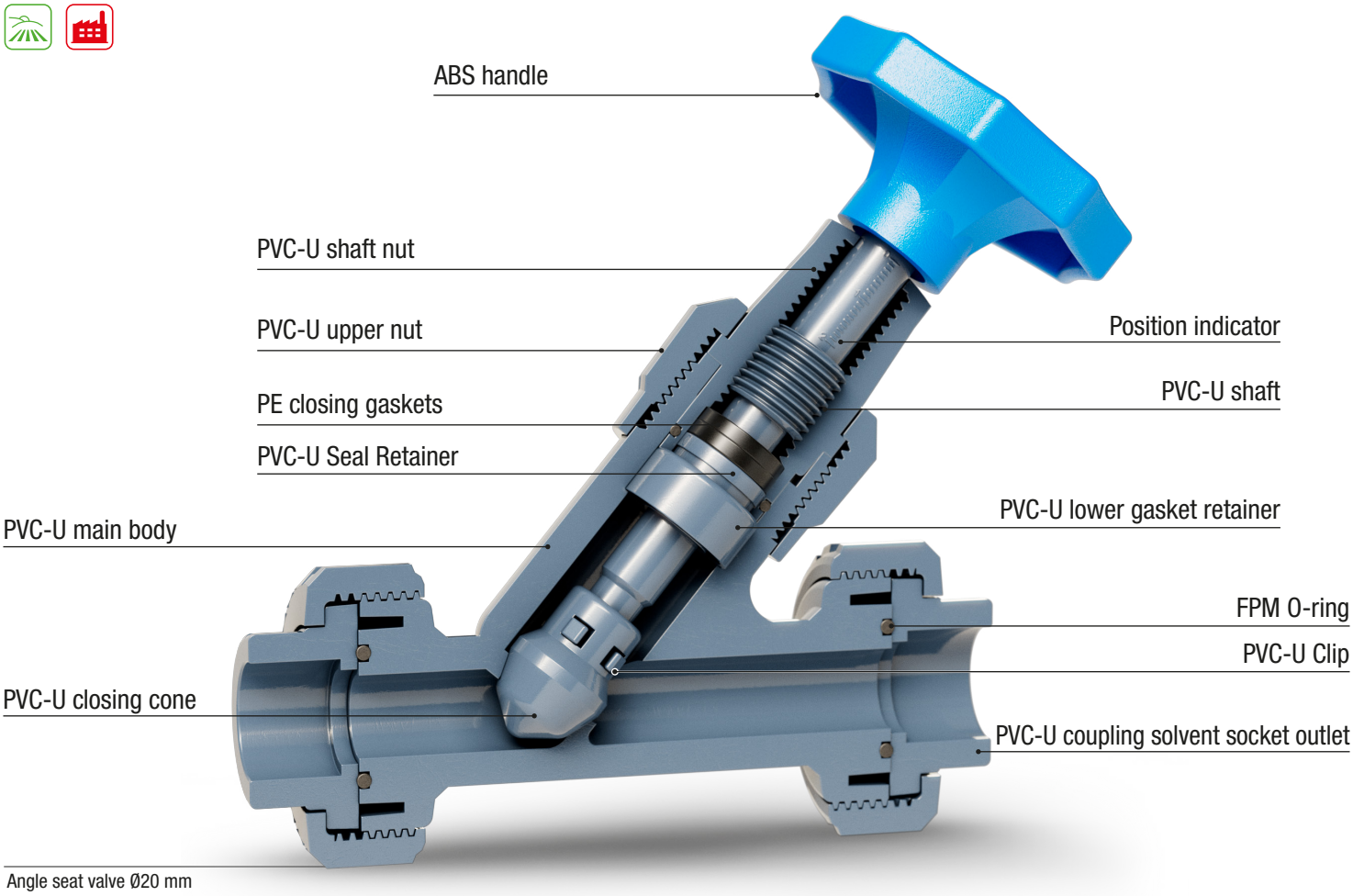
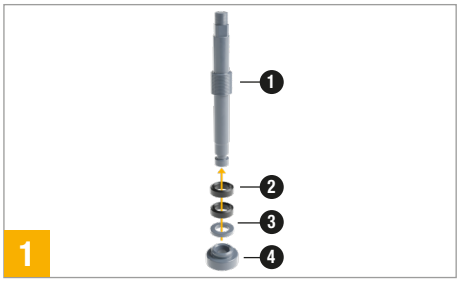
COMPONENTS

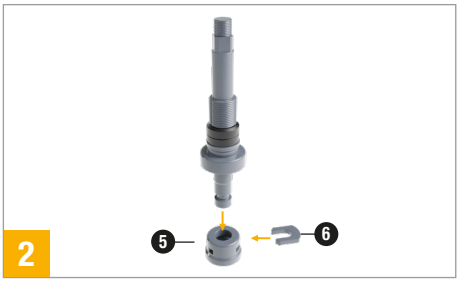


Angle seat valve Ø20 mm

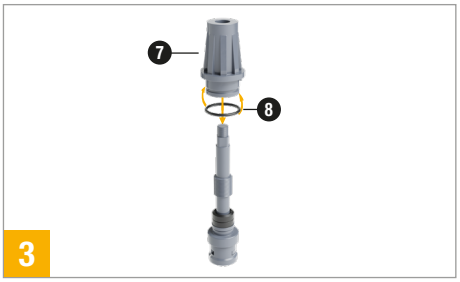
ASSEMBLY MANUAL



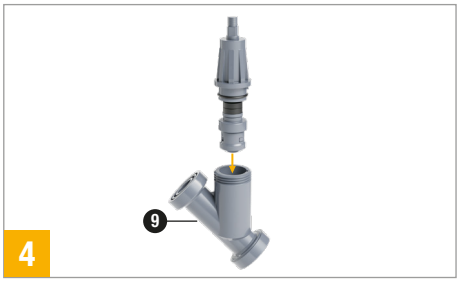
1. Insert through the base of the spindle **(1)** the closing seals **(2)**, the seal retainer **(3)** and the seal retainer sleeve **(4)**.



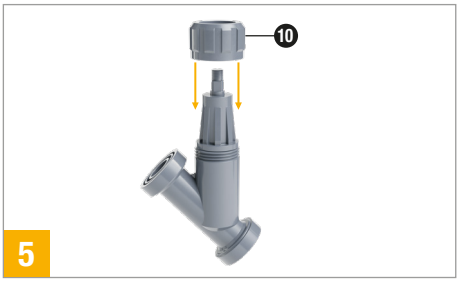
2. Next, insert the closing sleeve **(5)**. It is fixed to the base of the spindle by means of the clip **(6)**, which acts as a connection between both parts.



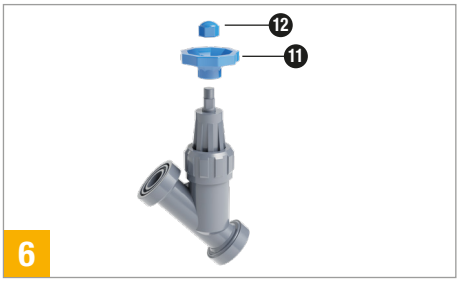
3. Place the O-ring **(8)** in the spindle nut **(7)** and screw it onto the upper part of the spindle.



4. Insert the spindle assembly into the valve body **(9)**, aligning the nut with the body guide.



5. Secure the spindle assembly to the valve body by screwing on the nut **(10)**.



6. Fit the handle **(11)** and secure it with the upper nut **(12)**.