Combination angle valve with filter and angle valve with filter. By SCHELL.
SCHELL is a reliable partner in the sanitary trade. We can look back on more than seventy-five years of experience in the construction and manufacturing of practical sanitary fittings. High-quality materials and automated production processes are the basis for the quality fittings "Made by SCHELL".

Furthermore, SCHELL has always come up with new ideas and realised them in innovative products, which bring genuine benefits to the user and to the sanitary trade. That includes using our water resources sparingly, combined with outstanding design and uncompromising quality, easy installation and a service that meets the requirements of the sanitary trade.

The SCHELL fittings can be used universally because they conform to many national and international approval standards. That is one of the reasons why many customers choose SCHELL again and again. That decision also gets progressively easier because SCHELL is constantly expanding its product range and is a one-stop-shop for the sanitary trade with high-quality products for both private households and public facilities alike.
Angle Valves. By SCHELL. Function and Performance.

Today, the use of angle valves in the sanitary area is not just for shutting-off supply pipes, moreover they meet other important functions. SCHELL regulating angle valves are the right choice for this use.

In case of service simply turn the handle of the valve clockwise until the valve is closed. Very easy maintenance and exchange of taps, connected appliances or service parts without the necessity to shut-off the main water supply for the building. Every tap or connection to the water supply line should have its own angle valve of control! The main water supply will be continued and does not have to be shut off.

Compared to simple 90° shut-off valves (ball valves) SCHELL angle valves with fully adjustable spindle technology allow the continuous adjustment of the maximum water flow and volume in the installation. The noise level remains under 20 dbA in each adjusting position. Smart setting of the valve easily reduces the waste consumption by about 40% without any lack of performance and comfort. This helps enormously to reduce the waste of water e.g. open taps left running in schools and hospitals.

A hydraulic balancing of the flow rates of warm and cold water of the mixer carried out by a sanitary expert is advantageous. This ensures optimal and constant mixing rate at the mixer. In case of different pressures of the supply network for cold and warm water, these pressures are to be balanced in order to secure a constant mixing function. This constant mixing function leads to a lower energy demand of the warm water production and thus to a reduction of emissions e.g. CO₂.
What is ASAG? ASAG is a special sealing ring made of PDFE/glass fibre material. It is preinstalled on the thread of the valve during the production process. Additional sealing material e.g. hemp, Teflon tape etc. may not be used! The fitting has to be screwed in beyond the ASAG sealing ring to the end of the thread. Adjustment is possible by turning back. The connection remains tight.

Angle valves with integrated backflow preventer (BP) protect efficiently the main water supply lines by preventing contaminated water flowing back into the main system.

Reduce flow noise of the water

Simple ball valves (shut-off valves) create noise especially when they are not completely open or closed. SCHELL angle valves are acoustic performance products. The noise level is < 20 dBa at a flow pressure level of 3 bar in the complete range of regulation.

Easy handling of tolerance of wall tiles etc. The extra-long space for the adjustment of the push rossette allows installation variances of up to 13 mm. Always a perfect look on the wall.

The outlet thread of the angle valve guarantees a secure and safe connection to simply and quickly change fittings with
- the cone compression connection in case of copper pipes
- flexible connection hoses with union nut.

The use of low-quality angle stop valves is very often the cause of severe water damage and costs (also for the sanitary plumber). The correctly installed SCHELL angle stop valve makes damage history and protects the installation.

Asag / Simple and easy installation

An easy and hassle-free installation is ensured by using the SCHELL installation key or any other appropriate tool.

SCHELL angle valves are acoustic performance products. The noise level is < 20 dBa at a flow pressure level of 3 bar in the complete range of regulation.

Adjustable push rossette

The outlet thread of the angle valve guarantees a secure and safe connection to simply and quickly change fittings with
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Protect the drinking water quality

SCHELL angle valves with integrated backflow preventer (BP) protect efficiently the main water supply lines by preventing contaminated water flowing back into the main system.

Secure and detachable connection

The extra-long space for the adjustment of the push rossette allows installation variances of up to 13 mm. Always a perfect look on the wall.

DIN 3227

German drinking water regulation

DIN 3227

German drinking water regulation

DIN 50930-6

DIN 50930-6

DIN 3227

German drinking water regulation

Quality made in Germany
The advantages

The materials used fulfill all requirements pursuant to the
- German drinking water regulation (TrinkwV 2000)
- DIN 50930 Section 6
- DIN EN 1717
- KTW (recommendations from the German federal department for health concerning synthetic materials that come into contact with drinking water)
- International standards

1 Secure connection.
   - The three-component brass cone compression joint with length compensation ensures a secure connection.
   1.1 Compression screw connection
   1.2 Brass cone
   1.3 Rubber sealing
   1.4 Length balancing base ring

2 Comfort.
   SCHELL COMFORT handle.

3 Continuous smooth operation.
   Grease chamber to ensure continuous operation.

4 Double safety.
   Safety by spring clip and additional material compression prevent the valve spindle from being turned out accidentally.

5 Maintenance-free.
   No need for maintenance due to double O-ring sealing.
   The valve spindle is protected against water.

6 Low-noise.
   Noise class I in every throttled position.

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DIN 3227

Safe with SCHELL.

Requirements acc. to DIN 3227 will be kept.

- Inspection with regard to density
  - pressure 16 bar
- Inspection with regard to compressive strength
  - pressure 25 bar
- Ultimate tensile strength of compression screw connection
  - ≥ 500 N with connection 10 mm
- Pressure stop reaction of external connection
  - change of pressure 10 - 25 bar
  - temperature 90 - 95 °C
  - number of 25,000 pressure changes
- Resistance to twisting of fastening element
  - torque ≥ 4Nm valve position open and shut
- Wear behaviour
  - 2000 cycles open and shut
- Volume flow rate
  - flow pressure 3 bar > 20 l/min
  - saving water through continuous throttle possibility
- Acoustic behaviour / description
  - fitting group I without cond., in throttle position as well regulating angle valve
- Materials
  - brass alloys acc. to DIN 50930-6
  - nonmetallic materials acc. to recommendations of KTW

Reg. no. DIN DVGW BO0053

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Flexibility.
   The push rosette offers increased flexibility — 18 mm range.

Quick installation.
   The installation time is minimized thanks to the self-sealing connection thread (ASAG)
Combination angle valve with filter and angle valves with filter.
By SCHELL.
Protection for delicate components and taps.

The system

The combination angle valve with filter is a sensible combination of angle stop valve with filter and appliance connection valve. The system enables simultaneous operation of e.g. a wash basin or sink unit fittings and a dishwasher/washing machine. The new solution with filter scores points for drinking water hygiene because lime and dirt particles can no longer penetrate the taps. It also protects all connected, delicate components, e.g. espresso machines. The filter (made from extremely durable Hostafom C®) can be released easily from a closed position from the valve by using a coin or a screwdriver and can be cleaned under running water (Fig. 1).

The tried and tested brass spindle (technology with O-ring seal which is used in millions of SCHELL angle valves with filter) is also put to use here. It guarantees ease of movement even after many years of operation.

Valve connection: High tensile brass cone compression connection with length compensation.

Appliance connection with threaded hose connection Ø 14,5 mm.

The appliance connection valve is maintenance-free due to its grease chamber headpart; it is equipped with an integrated backflow preventer (BP).

In order to ensure that fittings are fully protected, both types of angle valves for wash basins or sink units should always be equipped with filters and optionally with backflow preventers (BP). Consequently the SCHELL range has the right angle valve with filter both with and without backflow preventer (BP).

Application ranges:
For use when there is contamination from dirt particles from e.g. old pipe systems. These undesired particles not only influence the drinking water quality, it above all shortens the service life of valuable taps. This combination is ideal for use in:
- kitchens
- hospitals
- doctor’s practices
- laboratories
- for high-quality fittings (e.g. electronic wash basin taps) connected to appliances (washing machines, dishwashers, automatic drinks machines, and much more).
Combination angle valve with filter and angle valves with filter. By SCHELL.

**The advantages**

The materials used fulfill all requirements pursuant to the
- German drinking water regulation (TrinkwV 2000)
- DIN 50930 Section 6
- DIN EN 1717
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- International standards

1. The pull-resistant brass cone compression connection with length compensation ensures a secure connection between copper pipes and flexible connection hoses.
2. The metal hand wheel is equipped with a filter insert.
3. The filter
   - Made from extremely durable Hostaform C®, protects all delicate connected components.
   - Can be easily released with a coin or a screwdriver and can then be cleaned under running water.
4. The double O-ring seal guarantees ease of movement even after many years of operation.
5. The COMFORT handles offer a high level of grip in an elegant design.
6. The grease chamber
   - To protect the brass spindle against hard water.
   - Completely isolated from the water flow thus guaranteeing long-lasting ease of movement.
7. The integrated backflow preventer (BP) protects against reverse flow, back pressure and back absorption of non-drinking water into the supply system.

Valve technology. By SCHELL.
All angle valves with filter at a glance.

**SCHELL combination angle valve with filter**
- Design angle valve with integrated filter and hidden outlet connection. To protect taps against dirt/contamination
  - Comprises:
    - Filter, mesh size: 500 µm
    - Pull-resistant SCHELL brass cone compression connection with hidden length compensation
    - Appliance connection valve with backflow preventer (BP) and hose screw connection
    - Valve with long push rod and push rosette Ø 54 mm
  - Use / Technical Data:
    - To protect high-quality taps, e.g. electronically controlled taps
    - To connect household appliances
  - Material: Brass DIN EN
  - Test mark: Angle valve PA-IX 851/IA
  - Connection: 1/2" /DN 15, Outlet: 3/8"/DN 10, chrome
  - Order number 03 560 06 99

**SCHELL regulating angle valve with fine filter**
- Comprises:
  - Self-sealing connection thread (ASAG), with backflow preventer (BP)
  - With self-sealing connection thread (ASAG), with backflow preventer (BP)
    - Connection: 1/2"/DN 15, Outlet: 3/8"/DN 10, chrome
    - Order number 05 244 06 99
  - Material: Brass DIN EN
  - Test mark: P-IX 280/IA
  - Connection: 1/2" /DN 15, Outlet: 3/8"/DN 10, chrome
  - Order number 05 244 06 99

**SCHELL angle valve with normal filter**
- Comprises:
  - Valve with push rod and push rosette Ø 54 mm
  - Filter, mesh size: 500 µm
  - Pull-resistant SCHELL brass cone compression connection with length compensation
  - Use / Technical Data:
    - To protect high-quality taps, e.g. electronically controlled taps
  - Material: Brass DIN EN
  - Test mark: PA-IX 198/IA
  - Connection: 1/2" /DN 15, Outlet: 3/8"/DN 10, chrome
  - Order number 04 949 06 99

**SCHELL regulating angle valve with fine filter and backflow preventer (BP)**
- Comprises:
  - Self-sealing connection thread (ASAG)
  - Filter, mesh size: 100 µm
  - Valve with push rod and push rosette Ø 54 mm
  - For flat seal, without compression connection
  - Use / Technical Data:
    - To protect high-quality taps, e.g. electronically controlled taps
  - Material: Brass DIN EN
  - Test mark: applied for connection
  - Connection: 1/2" /DN 15, Outlet: 3/8"/DN 10, chrome
  - Order number 05 203 06 99

**SCHELL regulating angle valve with fine filter**
- Comprises:
  - Self-sealing connection thread (ASAG)
  - Filter, mesh size: 500 µm
  - Valve with long push rod and push rosette Ø 54 mm
  - For flat seal, without compression connection
  - Use / Technical Data:
    - To protect high-quality taps, e.g. electronically controlled taps
  - Material: Brass DIN EN
  - Test mark: Angle valve PA-IX 198/IA
  - Connection: 1/2" /DN 15, Outlet: 3/8"/DN 10, chrome
  - Order number 05 203 06 99

Further information see brochure angle valves, Order number. 95 416 00 99