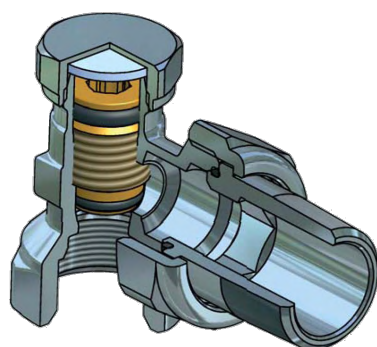


# Lockshields series 300 art. DD/DS 3xx



Lockshields are three-piece fittings allowing to intercept and adjust the flow to the heating body. Lockshields are preferable with respect to plain three-piece fittings, because, when necessary, their operation allows to remove the radiator while the system is working, with no need to drain it. The soft-seal obturator provides an accurate adjustment of the flow rate flowing through the heating body, and it therefore ensures a correct balancing of the circuit. As a safety measure for the user's, even the most inexperienced one, the obturator is designed to remain in its own seat. Lockshields are available in different versions for the connection to a number of pipe types.

## ■ TECHNICAL FEATURES

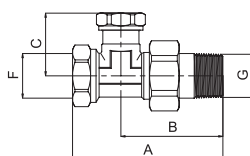
Max static operating pressure: 10 bar  
Max operating temperature: 120 °C

## ■ MATERIALS

Brass parts: CW617N  
O-ring: peroxide EPDM  
Gasket for obturator plug: asbestos-free gasket material

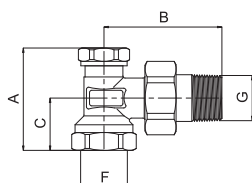
## ■ DIMENSIONS

### Straight lockshield with iron pipe connection



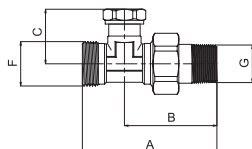
| ART.   | COD.   | SIZE  | A  | B  | C  | F    | G    |
|--------|--------|-------|----|----|----|------|------|
| DD 301 | 500647 | DN 10 | 67 | 46 | 30 | 3/8" | 3/8" |
| DD 301 | 500642 | DN 15 | 73 | 50 | 30 | 1/2" | 1/2" |
| DD 301 | 500644 | DN 20 | 86 | 58 | 30 | 3/4" | 3/4" |

## Angle lockshield with iron pipe connection



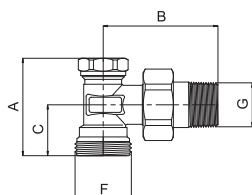
| ART.   | COD.   | SIZE  | A    | B  | C    | F    | G    |
|--------|--------|-------|------|----|------|------|------|
| DS 302 | 500656 | DN 10 | 42.5 | 49 | 20.5 | 3/8" | 3/8" |
| DS 302 | 500652 | DN 15 | 43   | 53 | 23   | 1/2" | 1/2" |
| DS 302 | 500655 | DN 20 | 46   | 63 | 25   | 3/4" | 3/4" |

## Straight lockshield with copper pipe connection



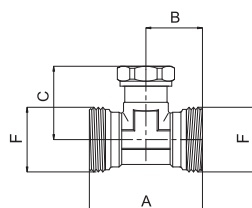
| ART.   | COD.   | SIZE      | A  | B  | C  | F       | G    |
|--------|--------|-----------|----|----|----|---------|------|
| DD 303 | 500643 | M24×1.5   | 72 | 50 | 30 | M24×1.5 | 1/2" |
| DD 305 | 500751 | EUROKONUS | 72 | 50 | 30 | 3/4"    | 1/2" |

## Angle lockshield with copper pipe connection



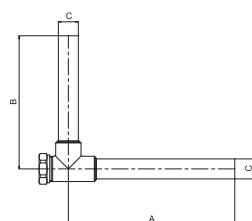
| ART.   | COD.   | SIZE      | A  | B  | C  | F       | G    |
|--------|--------|-----------|----|----|----|---------|------|
| DS 304 | 500653 | M24×1.5   | 45 | 53 | 23 | M24×1.5 | 1/2" |
| DS 306 | 500053 | EUROKONUS | 45 | 53 | 23 | 3/4"    | 1/2" |

## Straight lockshield with EUROKONUS connection and no fitting



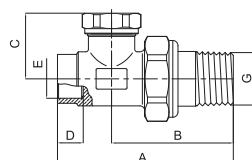
| ART.   | COD.   | SIZE      | A  | B    | C  | F    |
|--------|--------|-----------|----|------|----|------|
| DD 327 | 500750 | EUROKONUS | 45 | 22.5 | 30 | 3/4" |

## Angle lockshield with welded chrome copper pipe diam. 15



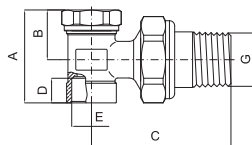
| ART.   | COD.   | SIZE | A   | B   | C   |
|--------|--------|------|-----|-----|-----|
| DS 330 | 500557 | ø15  | 125 | 100 | ø15 |

## Straight welding lockshield



| ART.   | COD.   | SIZE | A    | B    | C    | D  | E     | G    |
|--------|--------|------|------|------|------|----|-------|------|
| DD 311 | 500623 | ø15  | 68.5 | 47.5 | 25.5 | 10 | ø15.1 | 1/2" |

## Angle welding lockshield

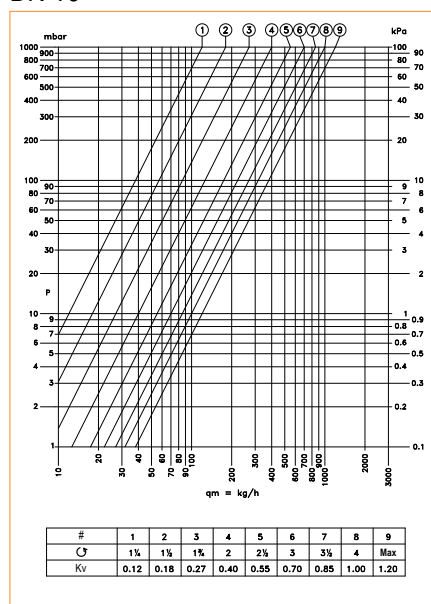


| ART.   | COD.   | SIZE | A    | B  | C    | D  | E     | G    |
|--------|--------|------|------|----|------|----|-------|------|
| DS 312 | 500784 | ø15  | 35.5 | 19 | 53.5 | 10 | ø15.1 | 1/2" |

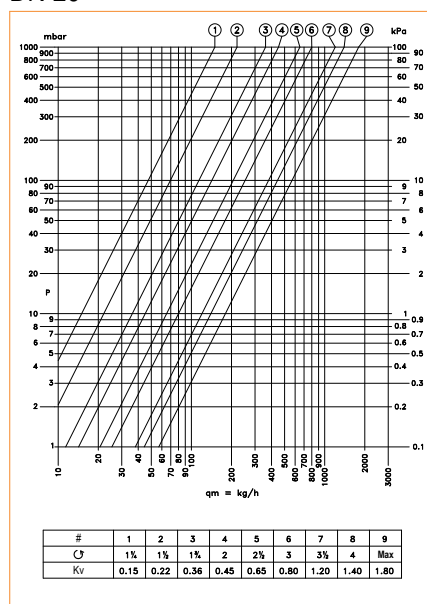
## ■ HYDRAULIC FEATURES

### DD 301 (DN 10/DN 20) - DS 302 (DN 10/DN 20)

DN 10



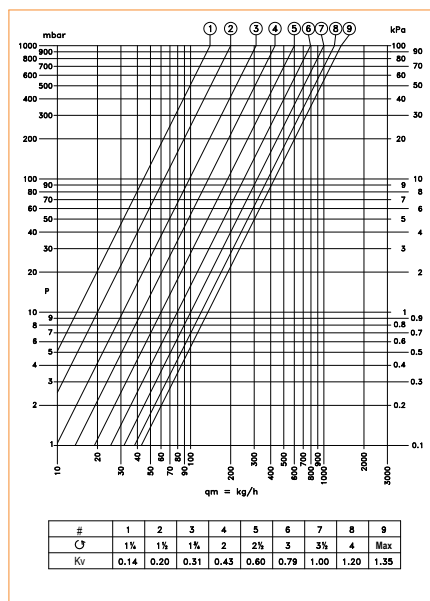
DN 20



○ = number of turns from closure position

**Max** = completely open position

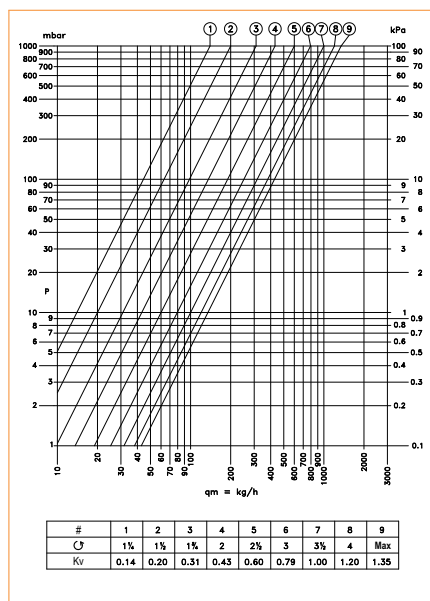
## DD 301 (DN 15) - DS 302 (DN 15) - DD 311 - DS 312



☺ = number of turns from closure position

**Max** = completely open position

## DD 303 - DD 305 - DS 304 - DS 306 - DD 327 - DS 330



☺ = number of turns from closure position

**Max** = completely open position

## NOTES

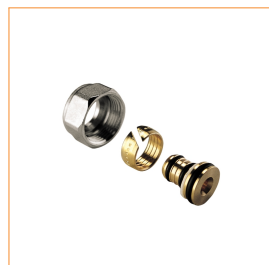
Some product codes relative to straight, angle and coaxial lockshields are available in R, RC e RCR versions:

- catalogue code + suffix "R" → reduced 3/8" M;
- catalogue code + suffix "RC" → with soft-seal pipe union;
- catalogue code + suffix "RCR" → with 3/8" M-reduced soft-seal pipe union.

Please refer to the following table for further details on available versions.

| ART.   | COD.   | SIZE      | + "R"          | + "RC" | + "RCR" |
|--------|--------|-----------|----------------|--------|---------|
| DD 301 | 500647 | DN 10     |                | •      |         |
|        | 500642 | DN 15     |                | •      | •       |
|        | 500644 | DN 20     |                | •      |         |
| DS 302 | 500656 | DN 10     |                | •      |         |
|        | 500652 | DN 15     | • <sup>1</sup> | •      | •       |
|        | 500655 | DN 20     |                | •      |         |
| DD 303 | 500643 | M24×1.5   |                | •      | •       |
| DD 305 | 500751 | EUROKONUS | • <sup>1</sup> | •      | •       |
| DS 304 | 500653 | M24×1.5   |                | •      | •       |
| DS 306 | 500053 | EUROKONUS | • <sup>2</sup> | •      | •       |

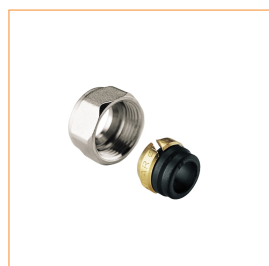
## ■ ACCESSORIES



TA 420. M24 fitting for multilayer pipe.



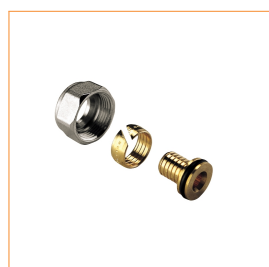
TA 4420. EUROKONUS fitting for multilayer pipe.



TR 430. M24 fitting for copper or mild steel pipe.



TR 4430. EUROKONUS fitting for copper or mild steel pipe.



TP 410. M24 fitting for polyethylene pipe.



TP 4410. EUROKONUS fitting for polyethylene pipe.



AGE 01. Soft-seal pipe union.

<sup>1</sup> Valve body DN 15, radiator connection 3/8" M

<sup>2</sup> Reduced valve body, radiator connection 3/8" M

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