

0518.0 • 3/4" ÷ 2" 1/2

0518.1 • 1/2" ÷ 2"

0518.2 • 1/2" ÷ 2"

ADJUSTABLE THERMOSTATIC MIXING VALVE



CONNECTIONS: MALE
DISMANTLING FITTINGS MALE
DISMANTLING FITTINGS MALE WITH INCORPORATED CHECK VALVE AND STRAINER



0518.0



0518.1 - 0518.2

DESCRIPTION

The adjustable thermostatic mixing valve is installed on storage boilers for hot sanitary water in order to regulate the hot water temperature for the comfort and safety of the end users. This valve automatically mixes the hot water coming from the storage boiler with cold water from the main, bringing it to the desired temperature, no matter what the supply conditions are (pressure, temperature or required flow rate). The anti-burn safety device automatically cuts down the hot water supply, in case there is no pressure on the cold water connection and as a consequence there is a risk of burning. Also in case the hot water supply should be interrupted unexpectedly, the device will block also the cold water supply in order to avoid any unpleasant thermic shocks. The adjustable thermostatic mixing valve is available with male threaded connections (cod. 0518.0), with dismantling fittings male (0518.1) or dismantling fittings male with incorporated check valve and strainer at inlet H and C (0518.2).

TECHNICAL FEATURES

| | |
|---|--------------------------------|
| Pressures: | |
| maximum static working pressure | 10 bar |
| maximum dynamic working pressure | 5 bar |
| maximum allowable differential inlet pressures | 2÷1 |
| minimum flow rate for a correct functioning (Qmin) | see next page |
| Temperature: | |
| maximum inlet temperature | 90°C |
| minimum ΔT between inlet hot water and outlet mixed water to guarantee the anti-burn safety block | 10°C |
| setting range | 30° ÷ 65°C |
| accuracy | ± 2°C |
| Fluids compatible: | |
| water | |
| Threading: | |
| pipeline connection | threads according to ISO 228/1 |
| Requirements and tests as per: | |
| in compliance with EN 1111, EN 1287 | |

DESIGN

| | |
|---|--|
| Body | brass UNI EN 12165 CW625N (DZR) |
| Finishing | chrome plated EN ISO 1456 |
| Cap | ABS |
| Internal parts 0518.0 | stainless steel EN 10270-3 brass UNI EN 12164 CW617N UEDEL GF-120 NT (only from 3/4" to 1") stainless steel EN 10270-3 brass UNI EN 12164 CW617N UEDEL GF-120 NT (only from 1/2" to 3/4") |
| Internal parts 0518.1 - 0518.2 | 1/2" ÷ 1" 1/4 - brass UNI EN 12164 CW617N 1" 1/2 ÷ 2" - brass UNI EN 12165 CW617N only 0518.215 - brass UNI EN 12164 CW617N and CW602N (DZR) |
| Dismantling fittings and nuts 0518.1 - 0518.2 | compressed fiber acetal resin POM, NBR rubber (EPDM and VMQ only 0518.220) and stainless steel stainless steel stainless steel EN 10270-3 EPDM perox wax |
| Dismantling fitting gaskets 0518.1 - 0518.2 | |
| Check valve 0518.2 | |
| Strainer 0518.2 | |
| Calibration spring | |
| Sealing gaskets | |
| Thermo-sensitive element | |

PRODUCT CODES

| | | | | | |
|----------|-------------|----------|---------------------------|----------|--|
| 0518.020 | 3/4" male | 0518.115 | 1/2" dism.fittings male | 0518.215 | 1/2" dism.fittings m with check valve and strainer |
| 0518.025 | 1" male | 0518.120 | 3/4" dism.fittings male | 0518.220 | 3/4" dism.fittings m with check valve and strainer |
| 0518.033 | 1" 1/4 male | 0518.125 | 1" dism.fittings male | 0518.225 | 1" dism.fittings m with check valve and strainer |
| 0518.042 | 1" 1/2 male | 0518.133 | 1" 1/4 dism.fittings male | 0518.233 | 1" 1/4 dism.fittings m with check valve and strainer |
| 0518.050 | 2" male | 0518.142 | 1" 1/2 dism.fittings male | 0518.242 | 1" 1/2 dism.fittings m with check valve and strainer |
| 0518.066 | 2" 1/2 male | 0518.150 | 2" dism.fittings male | 0518.250 | 2" dism.fittings m with check valve and strainer |



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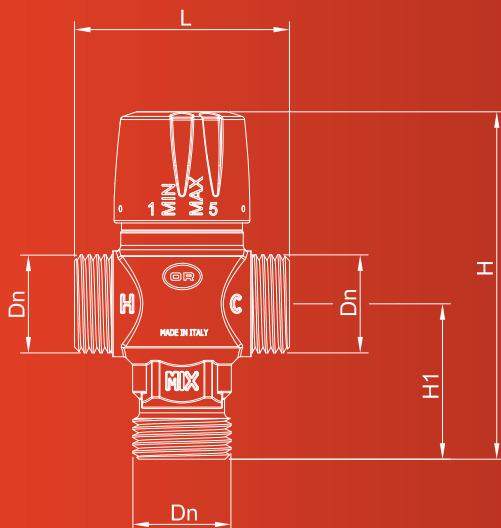
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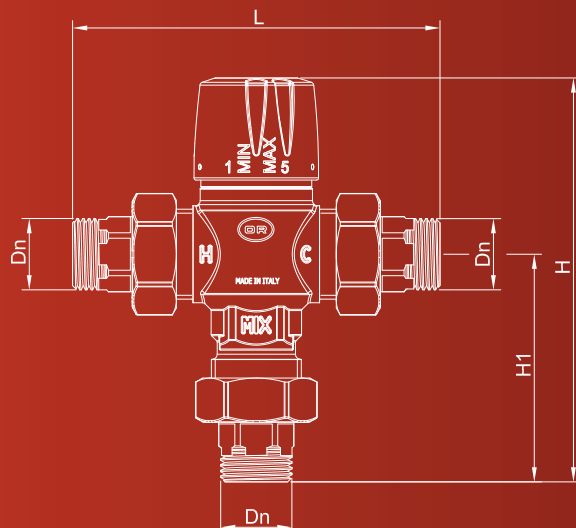
0518.2 • 1/2" ÷ 2"

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0518.0



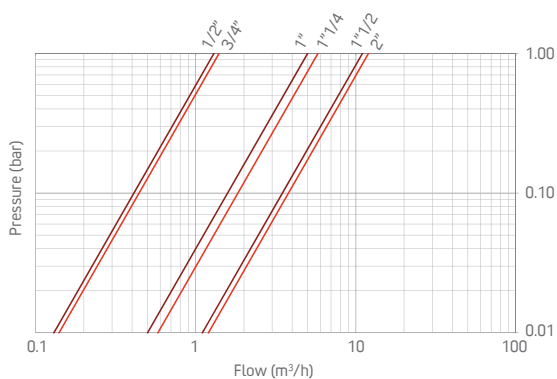
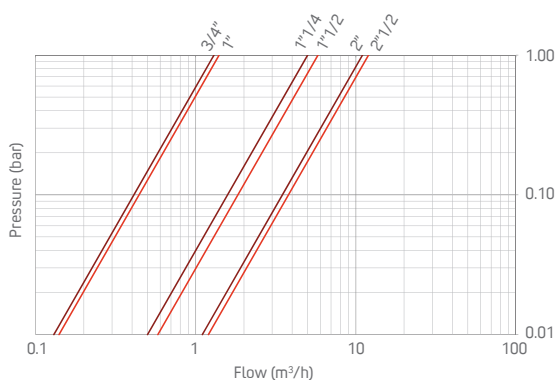
0518.1 - 0518.2

FEATURES

| Dn | L [mm] | H max [mm] | H1 [mm] | Kv | Qmin [L/m] |
|--------|-----------|---------------|------------|-----|---------------|
| 3/4" | 58 | 97 | 42 | 1.3 | 9 |
| 1" | 59 | 97 | 42 | 1.4 | 9 |
| 1" 1/4 | 89 | 136 | 58 | 5 | 15 |
| 1" 1/2 | 90 | 136 | 58 | 5.8 | 15 |
| 2" | 123 | 180 | 80 | 11 | 40 |
| 2" 1/2 | 123 | 181 | 81 | 12 | 40 |

| Dn | L [mm] | H max [mm] | H1 [mm] | Kv | Qmin [L/m] |
|--------|-----------|---------------|------------|-----|---------------|
| 1/2" | 108 | 122 | 67 | 1.3 | 9 |
| 3/4" | 118 | 127 | 72 | 1.4 | 9 |
| 1" | 165 | 174 | 96 | 5 | 15 |
| 1" 1/4 | 183 | 183 | 105 | 5.8 | 15 |
| 1" 1/2 | 217 | 227 | 125 | 11 | 40 |
| 2" | 238 | 238 | 138 | 12 | 40 |

HEAD LOSS DIAGRAM



0518.0

0518.1 - 0518.2

