

## TURBO-LUX® 3

Fire pump flowmeter for stationary sprinkler systems



The Turbo-Lux® 3 is the world's first and only testing device for fire pumps that has been approved by the three leading testing bodies FM, LPCB, and VdS.

This innovative flowmeter offers you a uniform and international solution for your fire protection systems. You receive a testing device for all nominal sizes from 2"/DN 50 to 12"/DN 300 and measuring ranges from 75 to 38 000 l/min (20 to 10 000 USgpm).

Thanks to its flexible installation position and flow direction, the Turbo-Lux® 3 is versatile.

### ADVANTAGES

- » One device for various nominal sizes and measuring ranges
- » The only VdS-certified manufacturer with grooved connection
- » High and consistent reading accuracy
- » Resistant to vibrations
- » Robust and low-maintenance design

The grooved connection allows the orifice flowmeter to be easily connected to the pipe-line network.

Benefit from triple certification and rely on maximum safety and quality with the robust, vibration-resistant, and low-maintenance design.



## TECHNICAL DATA

### System

|                     |                                                                                                                                |
|---------------------|--------------------------------------------------------------------------------------------------------------------------------|
| Measuring principle | Orifice plate flowmeter with variable flowmeter as indication                                                                  |
| Measuring accuracy  | $\pm 2.0$ % of full scale value<br>- FM<br>$\pm 5.0$ % of measured value<br>- LPCB<br>$\pm 2.5$ % of full scale value<br>- VdS |
| Certificates        | FM PR455022<br>LPCB 1385a<br>VdS G 415006                                                                                      |

### Pressure limits

34.5 bar (500 psi)  
2"/DN 50 ... 8"/DN 200  
- FM

16 bar (232 psi)  
10"/DN 250 ... 12"/DN 300  
- FM

16 bar (232 psi)  
2"/DN 50 ... 8"/DN 200  
- LPCB, VdS

### Hydrostatically strength / Pressure strength

69 bar (1 000 psi) for 5 min.  
- FM

40 bar (580 psi) for 5 min.  
- LPCB

64 bar (928 psi) for 10 min.  
- VdS

### Input

|                  |                                                                                                                                                                                                                                                                                                                                                                                        |
|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Nominal diameter | 2"/DN 50<br>(Ø 60.3 mm / 2.4 in)<br>2½"/DN 65<br>(Ø 73.0 mm / 2.9 in)<br>2½"/DN 65<br>(Ø 76.1 mm / 3.0 in)<br>3"/DN 80<br>(Ø 88.9 mm / 3.5 in)<br>4"/DN 100<br>(Ø 114.3 mm / 4.5 in)<br>6"/DN 150<br>(Ø 165.1 mm / 6.5 in)<br>6"/DN 150<br>(Ø 168.3 mm / 6.6 in)<br>8"/DN 200<br>(Ø 219.1 mm / 8.6 in)<br>10"/DN 250<br>(Ø 273.0 mm / 10.7 in)<br>12"/DN 300<br>(Ø 323.9 mm / 12.8 in) |
|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### Application conditions

|                   |                                   |
|-------------------|-----------------------------------|
| Temperature range | 4 °C ... 50 °C (39 °F ... 122 °F) |
| Medium            | Water                             |

### Constructive design

|                                           |                                                                |
|-------------------------------------------|----------------------------------------------------------------|
| Orifice plate<br>2"/DN 50 ... 4"/DN 100   | Housing tube in stainless steel with turned grooved connection |
| Orifice plate<br>6"/DN 150 ... 12"/DN 300 | Housing tube in coated steel with rolled grooved connection    |
| Differential pressure tube                | Brass                                                          |
| Float                                     | Stainless steel                                                |
| Bypass orifice                            | Stainless steel                                                |
| Filter                                    | Stainless steel                                                |
| Gasket                                    | NBR                                                            |

## INSTALLATION NOTES

The Turbo-Lux® 3 is installed using grooved pipe couplings. It is essential to ensure that the couplings used do not reduce the inner diameter of the pipe in the sealing area, as this can cause flow turbulence and measurement inaccuracies.

Before and after the orifice plate a straight calming section is provided as a function of the nominal diameter (D).

For the installation of valves, pumps, or T-piece pipes, an inlet path of at least  $10 \times D$  is required. Of this, at least  $5 \times D$  must be a straight section directly in front of the orifice plate.

The outflow zone after the orifice plate must be at least  $2 \times D$ .

The connected pipelines must be the same size as the orifice plate.

The pipelines must be completely filled at all times. Examples of special installation situations are illustrated in figures 2 to 5.

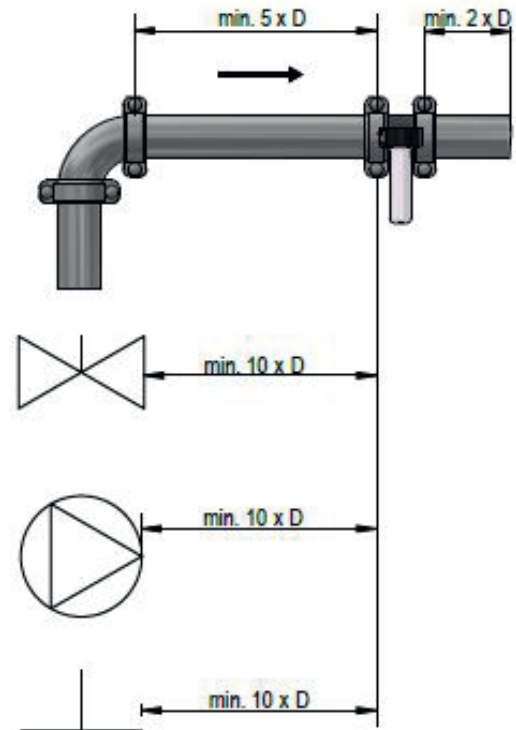


Fig. 1: Inlet path and outflow zone

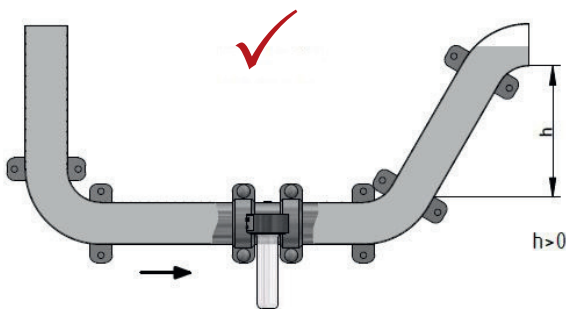


Fig. 2: Turbo-Lux® 3 correct horizontal installation

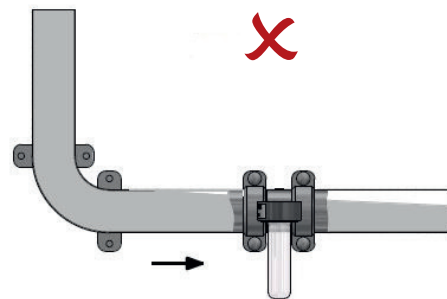


Fig. 3: Turbo-Lux® 3 wrong horizontal installation

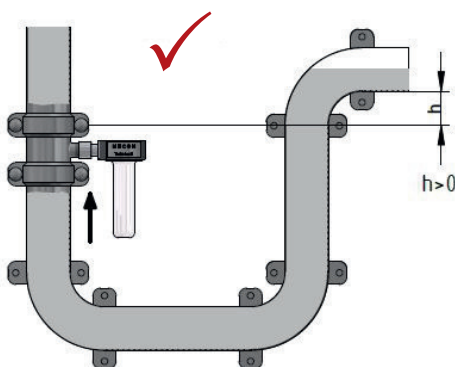


Fig. 4: Turbo-Lux® 3 correct vertical installation

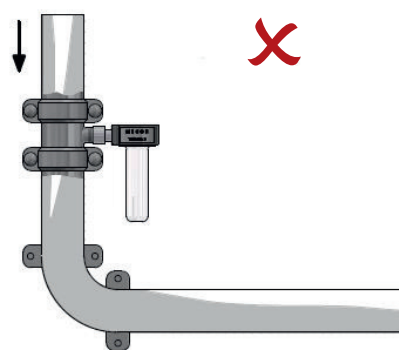


Fig. 5: Turbo-Lux® 3 wrong vertical installation

## DIMENSIONS AND WEIGHTS

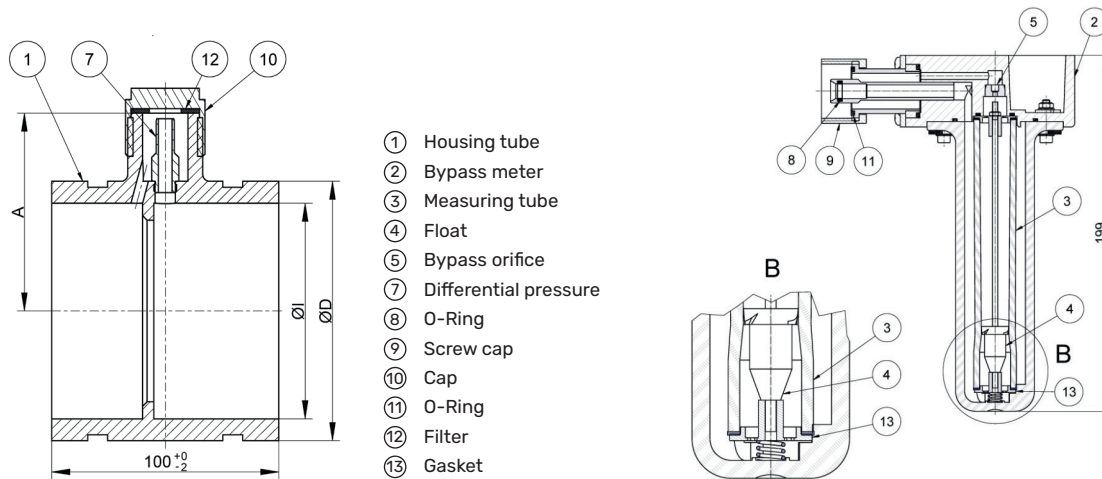


Fig. 2: Turbo-Lux® 3 orifice plate, bypass meter and dimensions for 2"/DN 50 ... 4"/DN 100

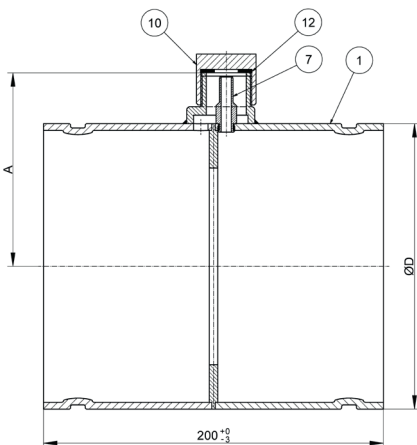


Fig. 3: Turbo-Lux® 3 orifice plate, position drawing and dimensions for 6"/DN 150 ... 12"/DN 300

| Nominal diameter | A<br>(mm / in) | ØD<br>(mm / in) | ØI<br>(mm / in) | Weight incl.<br>packing (kg / lbs) |
|------------------|----------------|-----------------|-----------------|------------------------------------|
| 2"/DN 50         | 60 / 2.4       | 60.3 / 2.4      | 53.0 / 2.1      | 1.6 / 3.5                          |
| 2½"/DN 65        | 68 / 2.7       | 73.0 / 2.9      | 66.0 / 2.6      | 2.0 / 4.4                          |
| 2½"/DN 65        | 68 / 2.7       | 76.1 / 3.0      | 66.0 / 2.6      | 2.0 / 4.4                          |
| 3"/DN 80         | 75 / 3.0       | 88.9 / 3.5      | 80.0 / 3.1      | 2.0 / 4.4                          |
| 4"/DN 100        | 87 / 3.4       | 114.3 / 4.5     | 100.0 / 3.9     | 3.0 / 6.6                          |
| 6"/DN 150        | 113 / 4.4      | 165.1 / 6.5     | -               | 4.8 / 10.6                         |
| 6"/DN 150        | 114 / 4.5      | 168.3 / 6.6     | -               | 4.8 / 10,6                         |
| 8"/DN 200        | 140 / 5.5      | 219.1 / 8.6     | -               | 6.3 / 13.9                         |
| 10"/DN 250       | 166 / 6.5      | 273.0 / 10.7    | -               | 9.0 / 19.8                         |
| 12"/DN 300       | 192 / 7.6      | 323.9 / 12.8    | -               | 11.5 / 25.4                        |



## PRODUCT AND ACCESSORIES

| Nominal diameter                                | Measuring range                            | Order code             | Bypass meter | Orifice plate   |            |     | Set measuring accuracy certificate |
|-------------------------------------------------|--------------------------------------------|------------------------|--------------|-----------------|------------|-----|------------------------------------|
|                                                 |                                            |                        |              | Stainless steel | Anthracite | Red |                                    |
| 2"/DN 50<br>50 USgpm<br>(Ø 60.3 mm / 2.4 in)    | 20 ... 100 USgpm<br>(75 ... 375 l/min)     | TL3A0-EB               | X            | X               |            |     |                                    |
|                                                 |                                            | TL3A0-EBC              | X            | X               |            |     | X                                  |
|                                                 |                                            | TL3B0-EB               | X            |                 |            |     |                                    |
|                                                 |                                            | TL3P0-EB               |              | X               |            |     |                                    |
| 2½"/DN 65<br>100 USgpm<br>(Ø 73.0 mm / 2.9 in)  | 40 ... 200 USgpm<br>(150 ... 750 l/min)    | TL3A0-UC <sup>1</sup>  | X            | X               |            |     |                                    |
|                                                 |                                            | TL3A0-UCC <sup>1</sup> | X            | X               |            |     | X                                  |
|                                                 |                                            | TL3B0-UC <sup>1</sup>  | X            |                 |            |     |                                    |
|                                                 |                                            | TL3P0-UC <sup>1</sup>  |              | X               |            |     |                                    |
| 2½"/DN 65<br>100 USgpm<br>(Ø 76.1 mm / 3.0 in)  | 40 ... 200 USgpm<br>(150 ... 750 l/min)    | TL3A0-FC               | X            | X               |            |     |                                    |
|                                                 |                                            | TL3A0-FCC              | X            | X               |            |     | X                                  |
|                                                 |                                            | TL3B0-FC               | X            |                 |            |     |                                    |
|                                                 |                                            | TL3P0-FC               |              | X               |            |     |                                    |
| 3"/DN 80<br>150 USgpm<br>(Ø 88.9 mm / 3.5 in)   | 60 ... 300 USgpm<br>(220 ... 1 100 l/min)  | TL3A0-GD               | X            | X               |            |     |                                    |
|                                                 |                                            | TL3A0-GDC              | X            | X               |            |     | X                                  |
|                                                 |                                            | TL3B0-GD               | X            |                 |            |     |                                    |
|                                                 |                                            | TL3P0-GD               |              | X               |            |     |                                    |
| 3"/DN 80<br>200 USgpm<br>(Ø 88.9 mm / 3.5 in)   | 80 ... 400 USgpm<br>(300 ... 1 500 l/min)  | TL3A0-GE               | X            | X               |            |     |                                    |
|                                                 |                                            | TL3A0-GEC              | X            | X               |            |     | X                                  |
|                                                 |                                            | TL3B0-GE               | X            |                 |            |     |                                    |
|                                                 |                                            | TL3P0-GE               |              | X               |            |     |                                    |
| 4"/DN 100<br>250 USgpm<br>(Ø 114.3 mm / 4.5 in) | 100 ... 500 USgpm<br>(380 ... 1 900 l/min) | TL3A0-HF               | X            | X               |            |     |                                    |
|                                                 |                                            | TL3A0-HFC              | X            | X               |            |     | X                                  |
|                                                 |                                            | TL3B0-HF               | X            |                 |            |     |                                    |
|                                                 |                                            | TL3P0-HF               |              | X               |            |     |                                    |
| 4"/DN 100<br>300 USgpm<br>(Ø 114.3 mm / 4.5 in) | 120 ... 600 USgpm<br>(460 ... 2 300 l/min) | TL3A0-HG               | X            | X               |            |     |                                    |
|                                                 |                                            | TL3A0-HGC              | X            | X               |            |     | X                                  |
|                                                 |                                            | TL3B0-HG               | X            |                 |            |     |                                    |
|                                                 |                                            | TL3P0-HG               |              | X               |            |     |                                    |

<sup>1</sup>Only available with FM approval



| Nominal diameter                                | Measuring range                                | Order code | Bypass meter | Orifice plate   |            |     | Set measuring accuracy certificate |
|-------------------------------------------------|------------------------------------------------|------------|--------------|-----------------|------------|-----|------------------------------------|
|                                                 |                                                |            |              | Stainless steel | Anthracite | Red |                                    |
| 4"/DN 100<br>400 USgpm<br>(Ø 114.3 mm / 4.5 in) | 160 ... 800 USgpm<br>(600 ... 3 000 l/min)     | TL3A0-HH   | X            | X               |            |     |                                    |
|                                                 |                                                | TL3A0-HHC  | X            | X               |            |     | X                                  |
|                                                 |                                                | TL3B0-HH   | X            |                 |            |     |                                    |
|                                                 |                                                | TL3P0-HH   |              | X               |            |     |                                    |
| 4"/DN 100<br>450 USgpm<br>(Ø 114.3 mm / 4.5 in) | 180 ... 900 USgpm<br>(680 ... 3 400 l/min)     | TL3A0-HJ   | X            | X               |            |     |                                    |
|                                                 |                                                | TL3A0-HJC  | X            | X               |            |     | X                                  |
|                                                 |                                                | TL3B0-HJ   | X            |                 |            |     |                                    |
|                                                 |                                                | TL3P0-HJ   |              | X               |            |     |                                    |
| 6"/DN 150<br>500 USgpm<br>(Ø 168.3 mm / 6.6 in) | 200 ... 1 000 USgpm<br>(760 ... 3 800 l/min)   | TL3A0-KK   | X            |                 | X          |     |                                    |
|                                                 |                                                | TL3A0-KKC  | X            |                 | X          |     | X                                  |
|                                                 |                                                | TL3A0-KKR  | X            |                 |            | X   |                                    |
|                                                 |                                                | TL3B0-KK   | X            |                 |            |     |                                    |
|                                                 |                                                | TL3P0-KK   |              |                 | X          |     |                                    |
|                                                 |                                                | TL3P0-KKR  |              |                 |            | X   |                                    |
|                                                 |                                                | TL3P0-KKS  |              | X               |            |     |                                    |
| 6"/DN 150<br>750 USgpm<br>(Ø 168.3 mm / 6.6 in) | 300 ... 1 500 USgpm<br>(1 130 ... 5 650 l/min) | TL3A0-KL   | X            |                 | X          |     |                                    |
|                                                 |                                                | TL3A0-KLC  | X            |                 | X          |     | X                                  |
|                                                 |                                                | TL3A0-KLR  | X            |                 |            | X   |                                    |
|                                                 |                                                | TL3B0-KL   | X            |                 |            |     |                                    |
|                                                 |                                                | TL3P0-KL   |              |                 | X          |     |                                    |
|                                                 |                                                | TL3P0-KLR  |              |                 |            | X   |                                    |
|                                                 |                                                | TL3P0-KLS  |              | X               |            |     |                                    |
| 6"/DN 150<br>1 000 USgpm (Ø 168.3 mm / 6.6 in)  | 400 ... 2 000 USgpm<br>(1 500 ... 7 500 l/min) | TL3A0-KM   | X            |                 | X          |     |                                    |
|                                                 |                                                | TL3A0-KMC  | X            |                 | X          |     | X                                  |
|                                                 |                                                | TL3A0-KMR  | X            |                 |            | X   |                                    |
|                                                 |                                                | TL3B0-KM   | X            |                 |            |     |                                    |
|                                                 |                                                | TL3P0-KM   |              |                 | X          |     |                                    |
|                                                 |                                                | TL3P0-KMR  |              |                 |            | X   |                                    |
|                                                 |                                                | TL3P0-KMS  |              | X               |            |     |                                    |



| Nominal diameter                                  | Measuring range                                | Order code | Bypass meter | Orifice plate   |            |     | Set measuring accuracy certificate |
|---------------------------------------------------|------------------------------------------------|------------|--------------|-----------------|------------|-----|------------------------------------|
|                                                   |                                                |            |              | Stainless steel | Anthracite | Red |                                    |
| 6"/DN 150<br>1 250 USgpm<br>(Ø 168.3 mm / 6.6 in) | 500 ... 2 500 USgpm<br>(1 900 ... 9 500 l/min) | TL3A0-KN   | X            |                 | X          |     |                                    |
|                                                   |                                                | TL3A0-KNC  | X            |                 | X          |     | X                                  |
|                                                   |                                                | TL3A0-KNR  | X            |                 |            | X   |                                    |
|                                                   |                                                | TL3B0-KN   | X            |                 |            |     |                                    |
|                                                   |                                                | TL3P0-KN   |              |                 | X          |     |                                    |
|                                                   |                                                | TL3P0-KNR  |              |                 |            | X   |                                    |
|                                                   |                                                | TL3P0-KNS  |              | X               |            |     |                                    |
| 6"/DN 150<br>500 USgpm<br>(Ø 165.1 mm / 6.5 in)   | 200 ... 1 000 USgpm<br>(760 ... 3 800 l/min)   | TL3A0-XK   | X            | X               |            |     |                                    |
|                                                   |                                                | TL3A0-XKC  | X            |                 | X          |     | X                                  |
|                                                   |                                                | TL3A0-XKR  | X            |                 |            | X   |                                    |
|                                                   |                                                | TL3B0-XK   | X            |                 |            |     |                                    |
|                                                   |                                                | TL3P0-XK   |              |                 | X          |     |                                    |
|                                                   |                                                | TL3P0-XKR  |              |                 |            | X   |                                    |
|                                                   |                                                | TL3P0-XKS  |              | X               |            |     |                                    |
| 6"/DN 150<br>750 USgpm<br>(Ø 165.1 mm / 6.5 in)   | 300 ... 1 500 USgpm<br>(1 130 ... 5 650 l/min) | TL3A0-XL   | X            |                 | X          |     |                                    |
|                                                   |                                                | TL3A0-XLC  | X            |                 | X          |     | X                                  |
|                                                   |                                                | TL3A0-XLR  | X            |                 |            | X   |                                    |
|                                                   |                                                | TL3B0-XL   | X            |                 |            |     |                                    |
|                                                   |                                                | TL3P0-XL   |              |                 | X          |     |                                    |
|                                                   |                                                | TL3P0-XLR  |              |                 |            | X   |                                    |
|                                                   |                                                | TL3P0-XLS  |              | X               |            |     |                                    |
| 6"/DN 150<br>1 000 USgpm (Ø 165.1 mm / 6.5 in)    | 400 ... 2 000 USgpm<br>(1 500 ... 7 500 l/min) | TL3A0-XM   | X            |                 | X          |     |                                    |
|                                                   |                                                | TL3A0-XMC  | X            |                 | X          |     | X                                  |
|                                                   |                                                | TL3A0-XMR  | X            |                 |            | X   |                                    |
|                                                   |                                                | TL3B0-XM   | X            |                 |            |     |                                    |
|                                                   |                                                | TL3P0-XM   |              |                 | X          |     |                                    |
|                                                   |                                                | TL3P0-XMR  |              |                 |            | X   |                                    |
|                                                   |                                                | TL3P0-XMS  |              | X               |            |     |                                    |
| 6"/DN 150<br>1 250 USgpm<br>(Ø 165.1 mm / 6.5 in) | 500 ... 2 500 USgpm<br>(1 900 ... 9 500 l/min) | TL3A0-XN   | X            |                 | X          |     |                                    |
|                                                   |                                                | TL3A0-XNC  | X            |                 | X          |     | X                                  |
|                                                   |                                                | TL3A0-XNR  | X            |                 |            | X   |                                    |
|                                                   |                                                | TL3B0-XN   | X            |                 |            |     |                                    |
|                                                   |                                                | TL3P0-XN   |              |                 | X          |     |                                    |
|                                                   |                                                | TL3P0-XNR  |              |                 |            | X   |                                    |
|                                                   |                                                | TL3P0-XNS  |              | X               |            |     |                                    |



| Nominal diameter                                    | Measuring range                                   | Order code             | Bypass meter | Orifice plate   |            |     | Set measuring accuracy certificate |
|-----------------------------------------------------|---------------------------------------------------|------------------------|--------------|-----------------|------------|-----|------------------------------------|
|                                                     |                                                   |                        |              | Stainless steel | Anthracite | Red |                                    |
| 8"/DN 200<br>1 500 USgpm<br>(Ø 219.1 mm / 8.6 in)   | 600 ... 3 000 USgpm<br>(2 200 ... 11 000 l/min)   | TL3A0-LP               | X            |                 | X          |     |                                    |
|                                                     |                                                   | TL3A0-LPC              | X            |                 | X          |     | X                                  |
|                                                     |                                                   | TL3A0-LPR              | X            |                 |            | X   |                                    |
|                                                     |                                                   | TL3B0-LP               | X            |                 |            |     |                                    |
|                                                     |                                                   | TL3P0-LP               |              |                 | X          |     |                                    |
|                                                     |                                                   | TL3P0-LPR              |              |                 |            | X   |                                    |
|                                                     |                                                   | TL3P0-LPS              |              | X               |            |     |                                    |
| 8"/DN 200<br>2 000 USgpm (Ø 219.1 mm / 8.6 in)      | 800 ... 4 000 USgpm<br>(3 000 ... 15 000 l/min)   | TL3A0-LQ               | X            |                 | X          |     |                                    |
|                                                     |                                                   | TL3A0-LQC              | X            |                 | X          |     | X                                  |
|                                                     |                                                   | TL3A0-LQR              | X            |                 |            | X   |                                    |
|                                                     |                                                   | TL3B0-LQ               | X            |                 |            |     |                                    |
|                                                     |                                                   | TL3P0-LQ               |              |                 | X          |     |                                    |
|                                                     |                                                   | TL3P0-LQR              |              |                 |            | X   |                                    |
|                                                     |                                                   | TL3P0-LQS              |              | X               |            |     |                                    |
| 8"/DN 200<br>2 500 USgpm<br>(Ø 219.1 mm / 8.6 in)   | 1 000 ... 5 000 USgpm<br>(3 800 ... 19 000 l/min) | TL3A0-LR               | X            |                 | X          |     |                                    |
|                                                     |                                                   | TL3A0-LRC              | X            |                 | X          |     | X                                  |
|                                                     |                                                   | TL3A0-LRR              | X            |                 |            | X   |                                    |
|                                                     |                                                   | TL3B0-LR               | X            |                 |            |     |                                    |
|                                                     |                                                   | TL3P0-LR               |              |                 | X          |     |                                    |
|                                                     |                                                   | TL3P0-LRR              |              |                 |            | X   |                                    |
|                                                     |                                                   | TL3P0-LRS              |              | X               |            |     |                                    |
| 8"/DN 200<br>3 000 USgpm<br>(Ø 219.1 mm / 8.6 in)   | 1 200 ... 6 000 USgpm<br>(4 500 ... 22 500 l/min) | TL3A0-LS               | X            |                 | X          |     |                                    |
|                                                     |                                                   | TL3A0-LSC              | X            |                 | X          |     | X                                  |
|                                                     |                                                   | TL3A0-LSR              | X            |                 |            | X   |                                    |
|                                                     |                                                   | TL3B0-LS               | X            |                 |            |     |                                    |
|                                                     |                                                   | TL3P0-LS               |              |                 | X          |     |                                    |
|                                                     |                                                   | TL3P0-LSR              |              |                 |            | X   |                                    |
|                                                     |                                                   | TL3P0-LSS              |              | X               |            |     |                                    |
| 10"/DN 250<br>3 500 USgpm<br>(Ø 273.0 mm / 10.7 in) | 1 400 ... 7 000 USgpm<br>(5 300 ... 26 500 l/min) | TL3A0-MT <sup>1</sup>  | X            |                 | X          |     |                                    |
|                                                     |                                                   | TL3A0-MTC <sup>1</sup> | X            |                 | X          |     | X                                  |
|                                                     |                                                   | TL3A0-MTR <sup>1</sup> | X            |                 |            | X   |                                    |
|                                                     |                                                   | TL3B0-MT <sup>1</sup>  | X            |                 |            |     |                                    |
|                                                     |                                                   | TL3P0-MT <sup>1</sup>  |              |                 | X          |     |                                    |
|                                                     |                                                   | TL3P0-MTR <sup>1</sup> |              |                 |            | X   |                                    |
|                                                     |                                                   | TL3P0-MTS <sup>1</sup> |              | X               |            |     |                                    |

<sup>1</sup>Only available with FM approval



| Nominal diameter                                    | Measuring range                                    | Order code             | Bypass meter | Orifice plate   |            |     | Set measuring accuracy certificate |
|-----------------------------------------------------|----------------------------------------------------|------------------------|--------------|-----------------|------------|-----|------------------------------------|
|                                                     |                                                    |                        |              | Stainless steel | Anthracite | Red |                                    |
| 10"/DN 250<br>4 000 USgpm<br>(Ø 273.0 mm / 10.7 in) | 1 600 ... 8 000 USgpm<br>(6 000 ... 30 000 l/min)  | TL3A0-MU <sup>1</sup>  | X            |                 | X          |     |                                    |
|                                                     |                                                    | TL3A0-MUR <sup>1</sup> | X            |                 |            | X   |                                    |
|                                                     |                                                    | TL3B0-MU <sup>1</sup>  | X            |                 |            |     |                                    |
|                                                     |                                                    | TL3P0-MU <sup>1</sup>  |              |                 | X          |     |                                    |
|                                                     |                                                    | TL3P0-MUR <sup>1</sup> |              |                 |            | X   |                                    |
|                                                     |                                                    | TL3P0-MUS <sup>1</sup> |              | X               |            |     |                                    |
| 10"/DN 250<br>4 500 USgpm<br>(Ø 273.0 mm / 10.7 in) | 1 800 ... 9 000 USgpm<br>(6 800 ... 34 000 l/min)  | TL3A0-MV <sup>1</sup>  | X            |                 | X          |     |                                    |
|                                                     |                                                    | TL3A0-MVR <sup>1</sup> | X            |                 |            | X   |                                    |
|                                                     |                                                    | TL3B0-MV <sup>1</sup>  | X            |                 |            |     |                                    |
|                                                     |                                                    | TL3P0-MV <sup>1</sup>  |              |                 | X          |     |                                    |
|                                                     |                                                    | TL3P0-MVR <sup>1</sup> |              |                 |            | X   |                                    |
|                                                     |                                                    | TL3P0-MVS <sup>1</sup> |              | X               |            |     |                                    |
| 12"/DN 300<br>5 000 USgpm<br>(Ø 323.9 mm / 12.8 in) | 2 000 ... 10 000 USgpm<br>(7 600 ... 38 000 l/min) | TL3A0-NW <sup>1</sup>  | X            |                 | X          |     |                                    |
|                                                     |                                                    | TL3A0-NWR <sup>1</sup> | X            |                 |            | X   |                                    |
|                                                     |                                                    | TL3B0-NW <sup>1</sup>  | X            |                 |            |     |                                    |
|                                                     |                                                    | TL3P0-NW <sup>1</sup>  |              |                 | X          |     |                                    |
|                                                     |                                                    | TL3P0-NWR <sup>1</sup> |              |                 |            | X   |                                    |
|                                                     |                                                    | TL3P0-NWS <sup>1</sup> |              | X               |            |     |                                    |

<sup>1</sup>Only available with FM approval

## REPLACEMENT PARTS

| Product                         | Order code   |
|---------------------------------|--------------|
| Replacement cap                 | ZB-TL3P0-001 |
| Replacement cap stainless steel | ZB-TL3P0-002 |