

# Flow switches | VKX15

With pipe tee

US version available

**Note:** The US versions are separate products.  
The units are not converted, but pre-configured at the factory for the respective variants.



Highlights

- Cost optimized version
- Pipe tee with threaded or soldering ends

| Technical data                                                     |                                   |                        |
|--------------------------------------------------------------------|-----------------------------------|------------------------|
| Switching function                                                 | Contact closes at increasing flow |                        |
| Setpoint                                                           | 2.5 ±0.5 l/min*                   | 0.6 ±0.13 US gpm*      |
| Max. flow rate                                                     |                                   |                        |
| → Pipe tee G½ male                                                 | 40 l/min                          | 10.5 US gpm            |
| → Pipe tee G¾ male                                                 | 40 l/min                          | 10.5 US gpm            |
| → Pipe tee 15 mm soldering connection                              | 40 l/min                          | 10.5 US gpm            |
| → Pipe tee 22 mm soldering connection                              | 34 l/min                          | 9 US gpm               |
| → ½" NPT female                                                    | 34 l/min                          | 9 US gpm               |
| → Soldering connection ¾" for ASTM copper pipes                    | 34 l/min                          | 9 US gpm               |
| → Combination soldering connection for ½" and ¾" ASTM copper pipes | 40 l/min                          | 10.5 US gpm            |
| Nominal diameter                                                   | Nominal pipe size                 |                        |
|                                                                    | DN 15                             | ½"                     |
| Pressure rating                                                    | PN 10                             | Max. 145 psi           |
| Temperature ranges                                                 |                                   |                        |
| Medium                                                             | -20...100 °C                      | -4...212 °F            |
| Ambient                                                            | -20...70 °C                       | -4...158 °F            |
| Electrical data                                                    |                                   |                        |
| Electrical connection                                              | 0.5 m PVC jacket cable            | 19.7" PVC jacket cable |
| Degree of protection EN 60529                                      | IP65                              |                        |
| Max. Switching current                                             | Max. 1 A                          |                        |
| Max. Rating                                                        | Max. 26 VA, 20 W                  |                        |
| Max. Switching voltage                                             | 230 VAC, 48 VDC or 24 VAC, 42 VDC |                        |
| Protection class EN 60730-1                                        | Class II or Class III             |                        |

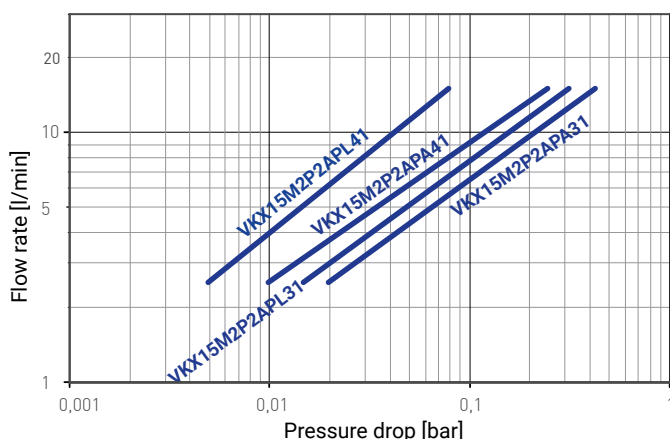
\* Water, 20 °C / 68 °F, horizontal pipe, other setpoints on request

# Approvals

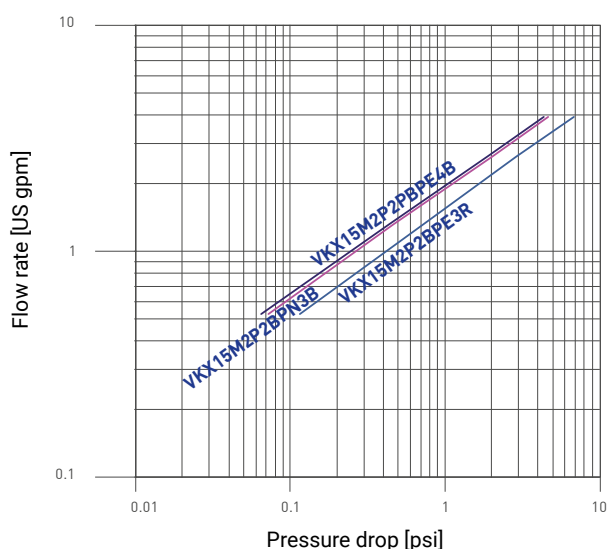
|                                                                                                                                                                                           |                                                                                                                              |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                          | <a href="#">TÜV certificate</a>                                                                                              |
|                                                                                                          | <a href="#">WRAS (approved product)</a>                                                                                      |
|                                                                                                          | <a href="#">KTW-BWGL: Product hygiene suitability for drinking water according to the 1+ system with external monitoring</a> |
|  <ul style="list-style-type: none"> <li>• UL 508</li> <li>• UL 353</li> <li>• CSA C22.2#14-10</li> </ul> | ETL recognized component, available for:<br>VKX15M2P2BPN3B & VKX15M2P2BPU20<br>Other Types on request                        |

## Pressure drop

Typical pressure drop



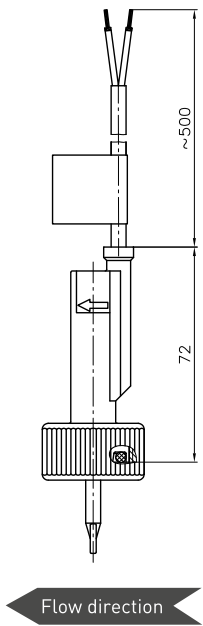
Typical pressure drop



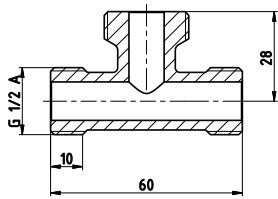
## Materials

| Materials in contact with fluid |                                              | Materials in contact with fluid                                                                                                                                      |                                                      |
|---------------------------------|----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|
| <b>Body</b>                     | PPE+PS Noryl™<br>30 % glass fibre reinforced | <b>Body</b>                                                                                                                                                          | PPE+PS Noryl™<br>30 % glass fibre reinforced         |
| <b>Paddle</b>                   | PPE+PS Noryl™<br>30 % glass fibre reinforced | <b>Paddle</b>                                                                                                                                                        | PPE+PS Noryl™<br>30 % glass fibre reinforced         |
| <b>Pin</b>                      | Stainless steel 1.4571                       | <b>Pin</b>                                                                                                                                                           | Stainless steel 1.4571                               |
| <b>Magnet</b>                   | Hard ferrite                                 | <b>Magnet</b>                                                                                                                                                        | Hard ferrite                                         |
| <b>O-ring</b>                   | EPDM                                         | <b>O-ring</b>                                                                                                                                                        | EPDM                                                 |
| <b>Pipe tee</b>                 | Brass CW617N                                 | <b>Pipe tee</b><br>→ ½" NPT female<br>→ Soldering connection ¾"<br>for ASTM copper pipes<br>→ Combination soldering<br>connection for ½" and<br>¾" ASTM copper pipes | Brass CW724R<br>Brass CW724R<br><br>Red brass CC491K |
|                                 |                                              |                                                                                                                                                                      |                                                      |

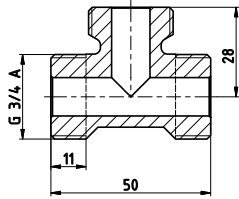
VKX15



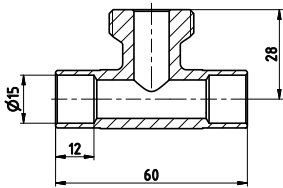
Pipe tee G 1/2 male



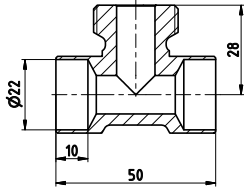
Pipe tee G 3/4 male



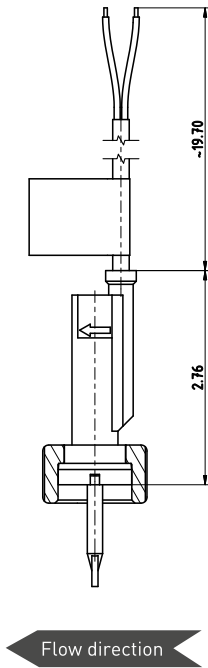
Pipe tee 15 mm  
soldering connection



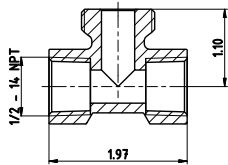
Pipe tee 22 mm  
soldering connection



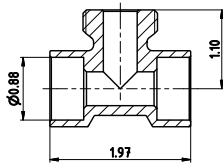
VKX15



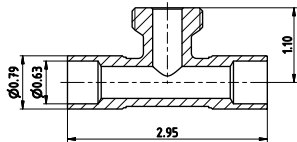
1/2" NPT female



Soldering connection 3/4" for ASTM copper pipes



Combination soldering connection for  
1/2" and 3/4" ASTM copper pipes



## Article numbers

| Order code                          |                  |           |            |
|-------------------------------------|------------------|-----------|------------|
| Type                                |                  |           |            |
| VKX15                               | VKX15M2P2        |           |            |
| Switching voltage                   |                  |           |            |
| 230 VAC, 48 VDC                     |                  | AP        |            |
| 24 VAC, 42 VDC                      |                  | BP        |            |
| Process connection                  |                  |           |            |
| Pipe tee G½ male                    |                  |           | A31        |
| Pipe tee G¾ male                    |                  |           | A41        |
| Pipe tee 15 mm soldering connection |                  |           | L31        |
| Pipe tee 22 mm soldering connection |                  |           | L41        |
| <b>Example order code</b>           | <b>VKX15M2P2</b> | <b>AP</b> | <b>A31</b> |

| Order code                                                       |                  |           |            |
|------------------------------------------------------------------|------------------|-----------|------------|
| Type                                                             |                  |           |            |
| VKX15                                                            | VKX15M2P2        |           |            |
| Switching voltage                                                |                  |           |            |
| 230 VAC, 48 VDC                                                  |                  | AP        |            |
| 24 VAC, 42 VDC                                                   |                  | BP        |            |
| Process connection                                               |                  |           |            |
| Pipe tee ½" NPT female                                           |                  |           | N3B        |
| Combination soldering connection for ½" and ¾" ASTM copper pipes |                  |           | E4B        |
| Soldering connection ¾" for ASTM copper pipes                    |                  |           | E3R        |
| <b>Example order code</b>                                        | <b>VKX15M2P2</b> | <b>AP</b> | <b>N3B</b> |