

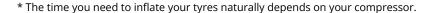
QTIS - WHEEL VALVE ASSEMBLY (WVA)

November 2025

Inflate and deflate your tyres through a single airline

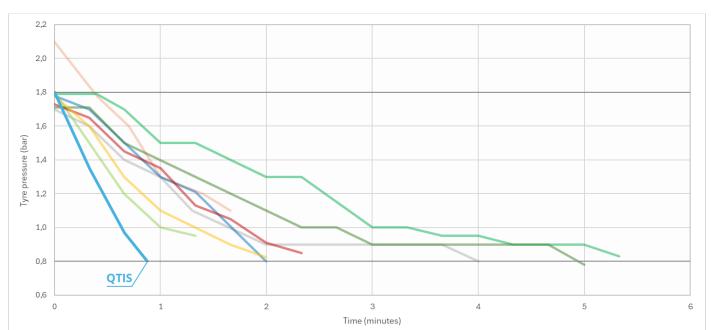
The patented wheel valve (WO2025093551A1) has been specially developed for the QTIS tyre pressure control system and offers cost and installation advantages because you only need one Ø16mm supply line with which you can inflate and deflate the tyre. The supply line is only under pressure when the tyres are being filled or deflated, so there is no risk of deflated tyres if the pipe is damaged.

When blowing off, the dirty air from the tyre is first filtered and then vented directly to the outside via the blue ring so you no longer get dirt from the tyre into your control system. This seal also protects the wheel valve against penetrating dirt from outside. Thanks to the large filter surfaces and passages, this is the fastest system on the market for bleeding your tyres.*





Testresults



Competitor graphs based on data from Profi Magazine (March 2022), comparing deflation times of CTIS systems, on tractors with a combined tyre volume of ca. 4000L (1,8 to 0,8 bar).

Note: Deflation times depend only on our wheel valve exhaust port size, QTIS has the fastest deflation times in the CTIS market.



Working principle

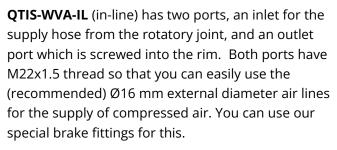
The wheel valve is a compressed air pressure-dependent valve that ensures that the tyre is inflated at low pressures, and when it receives high compressed air pressure it switches over so that the tyre can deflate. To make filling as quick as possible, you can work with two preset pressures: < 4 bar or < 6 bar.

The higher filling pressure can easily save you 20 seconds of tyre inflating time. This requires pressures of respectively > 7 bar and > 9 bar for deflating the tyres. To easily realize this inflating-deflating functionality, we have developed the QTIS-TPVBA valve block for you.

There are two models available, with the same interior so that you can choose how you want to mount the wheel valve.

| ARTICLE NUMBER | PORTS | INFLATING PRESSURE | DEFLATING PRESSURE |
|-----------------|----------------|--------------------|--------------------|
| QTIS-WVA-IL-4-7 | M22 x 1,5 (2x) | < 4 bar | > 7 bar |
| QTIS-WVA-IL-6-9 | M22 x 1,5 (2x) | < 4 bar | > 7 bar |
| QTIS-WVA-PM-4-7 | M22 x 1,5 (3x) | < 6 bar | > 9 bar |
| QTIS-WVA-PM-6-9 | M22 x 1,5 (3x) | < 6 bar | > 9 bar |







QTIS-WVA-PM (plate-mounted) is a version with two output ports and is designed for installing a connection to an optional second tyre, a wireless pressure sensor, or an angled output with a compact design where one port is plugged. The QTIS-WVA-PM also has two through holes that allow you to screw the wheel valve against the rim plate for easy installation.



The desired thread connections on the rim are G1/2" minimally or G3/4" for best results. Optionally, you can install a ball valve (without handle for safety reasons) between the wheel valve and the rim so that you can also keep the tyre under pressure when you want to install / remove the rim valve.

STEP files available for download at www.qtis.nl; parts list, advice, and prices available upon request.

