

QTIS-WVA Wheel valve

The patented wheel valve has been specially developed for the QTIS tire pressure control system and offers cost and installation advantages because you only need one $\varnothing 16\text{mm}$ supply line with which you can inflate and deflate the tire. The supply line is only under pressure when the tires are being filled or deflated, so there is no risk of deflated tires if the pipe is damaged.

When blowing off, the dirty air from the tire is first filtered and then vented directly to the outside via the blue ring so you no longer get dirt from the tire 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 tires. The time you need to inflate your tires naturally depends on your compressor.



The wheel valve is a compressed air pressure-dependent valve that ensures that the tire is inflated at low pressures, and when it receives high compressed air pressure it switches over so that the tire can deflate. To make filling as quick as possible, you can work with two preset pressures: 4 bar or 6.5 bar. The higher filling pressure can easily save you 20 seconds of tire inflating time.

This requires pressures of >7 bar and >9.5 bar for deflating the tires. To easily realize this inflating-deflating

functionality, we have developed the QTIS-DPWVA valve block for you. If your compressor is not able to achieve sufficiently high pressure, we have developed a booster set QTIS-PBA230 for you to double the pressure of your compressed air.

There are two housing models available with the same interior so that you can choose how you want to mount the wheel valve. **The QTIS-WVA-IL (in-line) wheel valve** has two ports,

an inlet for the supply hose from the rotatory joint, and an outlet port which is screwed into the rim. Both ports have M22x1.5 thread so that you can easily use the (recommended) Ø16mm external diameter air lines for the supply of compressed air. You can use our special brake fittings for this.

The QTIS-WVA-PM (Plate Mount) is a version with two output ports and is designed for installing a connection to an optional second tire, 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 with M6 bolts for very quick and 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 tire under pressure when you want to install / remove the rim valve.

Model	Ports	Inflating pressure	Deflating pressure	
QTIS-WVA-IL	M22 x 1,5	< 4,5 bar	> 7 bar	
QTIS-WVA-PM	M22 x 1,5	<4,5 bar	> 7 bar	
QTIS-WVAHP-IL	M22 x 1,5	<6,5 bar	> 9,5 bar	Option: booster
QTIS-WVAHP-PM	M22 x 1,5	<6,5 bar	> 9,5 bar	Option: booster

On request: Test graphs (exhausting times, filling times as a function of filling pressure, filter behaviour)

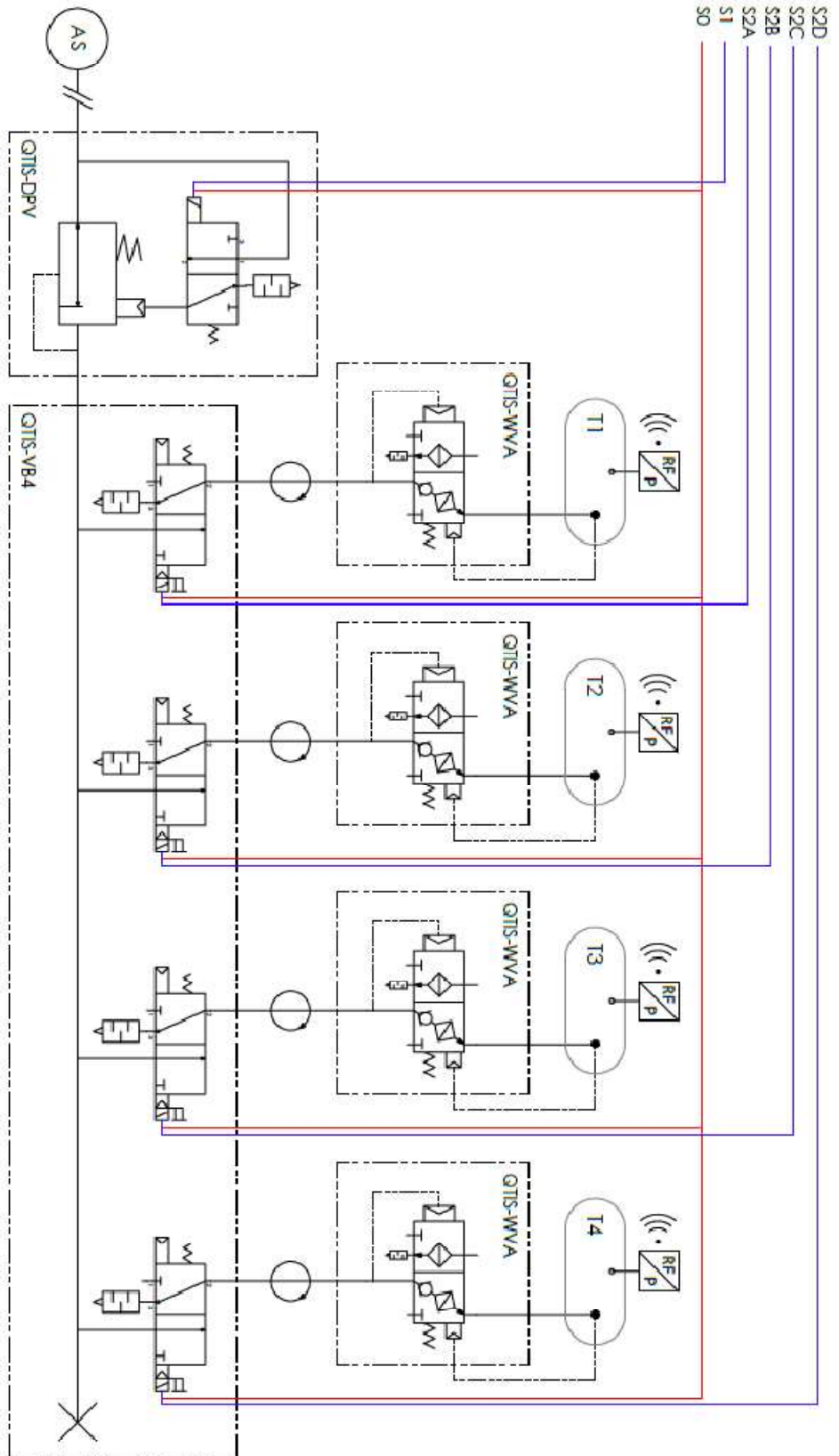
Technical support

STEP file

Parts list, exploded view

Project quotation

AS = Air Supply
 S = Solenoid
 T = Tyre



NOTE: COMPRESSED AIR ACCORDING TO ISO 8573-1: 3-4-4