

ALLIGATOR VALVES

ALWAYS THE RIGHT CHOICE!

Only high-quality materials such as EPDM rubber are used to manufacture the valves. This particular material has a high resistance to ozone, sunlight, and chemicals and thus extends the service life of the valve.

EXTENSIVE PRODUCT RANGE

OEM QUALITY

ALLIGATOR offers an extensive range of valves for passenger cars, vans, trucks, motorbikes, scooters, bicycles, tractors, and earthmovers.

HIGH LEVEL OF SERVICE

In day-to-day business, ALLIGATOR is always there for its customers with advice and support. Information such as assembly instructions are also provided.





SNAP-IN RUBBER VALVES

Flexible and easy to mount

- **Application:** Passenger car, trailer
- **Pressure range:** Up to 4.5 bar / 65 psi
- **Properties:** Elastic valve shaft, easy assembly
- **Fit:** Suitable for ETRTO rims
- Series: OE Premium and ALLIGATOR line
- **Proper storage:** Cool and dark, protected from sunlight and ozone.

NOTE

At more than 210 km/h / 13 mph use either metal valves (clamp-in) or valve supports to prevent the valve from bending by more than 25° due to centrifugal force.





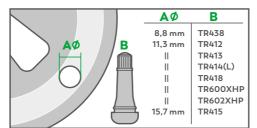
MOUNTING RUBBER VALVES

Snap-in valves can be installed quickly and professionally

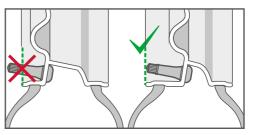
Rims suitable for rubber valves:

- Round, non-oval valve hole with diameter
- Valve hole must be free of burrs and damage and must comply with ETRTO regulations.





When selecting the valve, pay attention to the rim hole diameter.



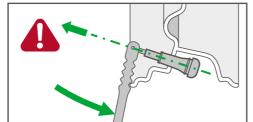
The rim valve must not protrude beyond the outer edge of the rim.



The valve hole must be free of dirt and burrs and comply with ETRTO.



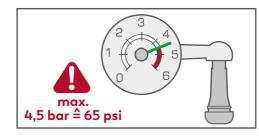
Coat the valve with (soapy) water to facilitate assembly and prevent damage.



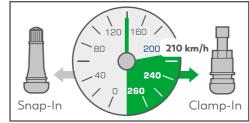
Retract the valve axially without angling it. Do not tilt or overstretch.



Make sure the valve is well seated in the rim and check the valve for damage.



Rubber valves can be used up to a pressure range of 4.5 bar / 65 psi.



Note

The max. permissible speed for snap-in valves is 210 km/h / 130 mph. For higher speeds (index V, W, Y, ZR), metal valves must be used for safety reasons.



WHY CHANGE **VALVES?**

Pressure loss due to high stress

What influences is a rubber valve exposed to?

- Brittleness of the rubber due to ozone in the air, heat from the environment, and the radiant heat of the brakes
- Corrosion due to the ingress of dirt
- Weight load due to centrifugal forces at high speeds
- Damage due to stone impact or contact with the curb

Replace valves for more safety

- Replace the valve every time you change the tire.
- Look for functional valve caps as protection against dirt, water, and creeping pressure loss.
- Use quality valves from ALLIGATOR designed for heavy-duty use.



DO NOT OVERLAY **RUBBER VALVES**

Proper storage and assembly

Instructions for mounting

- Good and proper lubrication: Avoid cracks during
- Pull in without angular offset: Pulling in at an angle significantly increases the load and thus the risk of damage to the valve.

What happens with incorrect storage

- Incorrect storage acceelerates the natural aging of the
- The elasticity of the rubber decreases.
- Cracks may appear in the clamping area due to the expansion caused during assembly.
- Risk of pressure loss in the tire due to growing cracks or tears in the valve.
- Risk of a flat tire or accident greatly increased.

Notes on storage

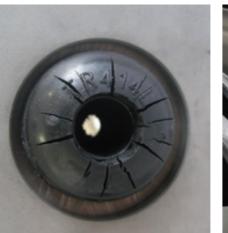
- Do not store valves for extended periods: Use the first-in, first-out method (do not buy in stock).
- Proper storage: Cool and dark, protected from sunlight and ozone, not in the same room with electrical equipment (e.g., compressors) or chemicals.







Ozone cracks Axial drawing in



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OE Premium Line

For the highest demands

- Application: OE manufacturer (original equipment) / aftermarket
- Quality checks/standard: Meets OEM requirements (significantly higher than ETRTO & DIN)
- **Testing:** 100% process monitoring at every step
- Material: High-quality, resistant special rubber compound
- Properties: High resistance to ozone, UV light, and chemicals
- Marking on the valve base: ALLIGATOR + TR41x
- Laser marking: Individual marking of rubber valves
- **Traceability:** High product traceability

61.5 56.5 49 43 33 9-521515 TR412 TR413 TR414 TR414 TR414 TR414 TR414 TR415

Valve hole 11.3 + 0.4 mm

Art. no.	TR no.	Variant	ETRTO no.	Valve length (mm)	Qty	Vehicle type	Valve caps
9-521515	TR412	mounted	V2.03.6	33	100		
9-521520	TR412	with DS-P cap	V2.03.6	33	20		
9-521527	TR412	unassembled	V2.03.6	33	100	€	
9-521545	TR412	with metal cap	V2.03.6	33	100	€	
9-522445	TR413	mounted	V2.03.1	43	100		
9-522032	TR413	partly assembled	V2.03.1	43	100		
9-522018	TR413	unassembled	V2.03.1	43	100		
9-522070	TR413	with extension cap	V2.03.1	43	100		1
9-522099	TR413	with metal sleeve	V2.03.1	43	100		AL.
9-522036	TR413	with metal cap	V2.03.1	43	100		
9-523445	TR414	mounted	V2.03.2	49	100		
9-523131	TR414	partly assembled	V2.03.2	49	100		
9-523018	TR414	unassembled	V2.03.2	49	100		
9-523099	TR414	with metal sleeve	V2.03.2	49	100		M
9-523036	TR414	with metal cap	V2.03.2	49	100		
9-529445	TR414L	mounted	V2.03.8	56.5	100		
9-525445	TR418	mounted	V2.03.4	61.5	100		
9-525018	TR418	unassembled	V2.03.4	61.5	100		
9-525036	TR418	mounted	V2.03.4	61.5	100		

Valve hole 8.8 + 0.4 mm

Art. no.	TR no.	Variant	Valve length (mm)	Qty	Vehicle type	Valve caps
9-520542	438	Partly assembled with metal cap	41	100		

Valve hole 15.7 + 0.4 mm

Art. no.	TR no.	Variant	ETRTO no.	Valve length (mm)	Qty	Vehicle type	Valve caps
9-524145	415	mounted	V2.03.3	43	100		







Standard Qty: 100 pcs. in bag, 1,000 pcs. in box, 36,000 pcs. on pallet

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ALLIGATOR Line

Reliably tested quality

- **Application:** Aftermarket
- Quality checks/standard: Complies with the ETRTO
- **Testing:** 100% check for function and tightness
- **Material:** High-quality rubber compound
- **Properties:** High ozone, UV light, and chemical
- Marking on the valve base: ST-EHA + TR41x
- Laser marking: -
- **Traceability:** High traceability via packaging

9-529900 9-529910 9-529920 9-529930 9-529950 TR412 TR413 TR418 TR414 TR414L

Valve hole 11.3 + 0.4 mm

Art. no.	TR no.	Variant	ETRTO no.	Valve length (mm)	Qty	Vehicle type	Valve caps
9-529900	TR412	mounted	V2.03.6	33	100		2 0
9-529904	TR412	partly assembled	V2.03.6	33	100		2 0
9-529902	TR412	unassembled	V2.03.6	33	100		2 0
9-529910	TR413	mounted	V2.03.1	43	100		2 0
9-529914	TR413	partly assembled	V2.03.1	43	100		2 0
9-529912	TR413	unassembled	V2.03.1	43	100		2 0
9-529920	TR414	mounted	V2.03.2	49	100		2 0
9-529924	TR414	partly assembled	V2.03.2	49	100		2 0
9-529922	TR414	unassembled	V2.03.2	49	100		2 0
9-529930	TR414L	mounted	V2.03.8	56.5	100		2 0
9-529934	TR414L	partly assembled	V2.03.8	56.5	100		20
9-529932	TR414L	unassembled	V2.03.8	56.5	100		2 0
9-529950	TR418	mounted	V2.03.4	61.5	100		2 0
9-529954	TR418	partly assembled	V2.03.4	61.5	100		2 0





Standard Qty: 100 pcs. in bag, 1,000 pcs. in box, 36,000 pcs. on pallet

HIGH PRESSURE AND EXTREME CONDITIONS? NO PROBLEM!

THE ASC SEALING CONCEPT





METAL VALVES

Also for wheels under heavy loads

- **Application:** Passenger cars, vans, campers
- **Pressure range:** Up to 14 bar / 203 psi
- **Properties:** Robust design, high tightness
- **Fit:** Suitable for ETRTO rims
- Series: Standard and ASC family valves
- **Proper storage:** Cool and dark, protected from sunlight and ozone.

NOTE

If the speed exceeds 210 km/h / 130 mph, metal valves (clamp-in) must be used.

Highlights *













9-512568



ASC (Advanced Sealing Concept)

Advanced sealing concept for highly stressed wheels

Sealing concept:

- Tightening forces are introduced directly into the metal of the rim.
- Seal can fulfill its task regardless of external forces.

Advantages:

- High temperature resistance even under extreme conditions
- Secure sealing.
- Seal adapts to the valve hole.
- No damage to the seal during assembly.
- Firm fit over a long period of use.
- Nut can be mounted with the valve cap screwed on.



ASC family

Valve hole 11.3+ 0.4 | brass

Art. no.	Description	Valve length (mm)	Wrench size	Installation torque (Nm)	Qty	Vehicle type	Surface	Valve caps	
9-512512	31 MS ASC-HT	31.5	11	4-6	20		Ni		**
9-512514	31MS ASC-HT with V2B	31.5	11	4-6	20		Ni		
9-512573	40MS ASC-HT	40	11	4-6	20		Ni		*
9-512583	47MS ASC-HT	47	11	4-6	20		Ni		
9-512593	60MS ASC-HT	60	11	4-6	20		Ni		

HT = high temperature



Valve hole 11.3 + 0.4 mm

Brass

Art. no.	Description	TR no.	ETRTO no.	Valve length (mm)	Wrench size	Installation torque (Nm)	Qty	Vehicle type	Surface	Valve caps
9-516023	36MS		V2.04.1 EQ	36	14	3–5	20		Ni	
9-511983	37MS			37	14	3-5	20		Ni	
9-512503	39MS	416S	V2.05.1	39	14	3-5	20		Ni	
9-512507	39MS unmounted	416S	V2.05.1	39	14	3-5			Ni	
9-512563	42MS with plastic washer			42	11	3–5	20		Ni	
9-512553	42MS without plastic disc		V2.05.3	42	11	3–5	20		Ni	
9-513103	42MS with short nut		V2.05.4	42	14	3-5	20		Ni	
9-513143	42MS with high nut			42	14	3-5	20		Ni	
9-512462	42MS partly assembled			42	14	3–5	500		Ni	
9-512628	43MS			43	14	3-5	20		Ni	Ш
9-513003	45MS (classic car)			45	13	3–5	4		Ni	





Valve hole 11.3 + 0.4 mm

Brass

Art. no.	Description	Valve length (mm)	Wrench size	Qty	Vehicle type	Surface	Valve caps
9-519003	Metal tube valve 43MS	43	17	20		-	



Valve hole 11.3 + 0.4 mm

Aluminum

Art. no.	Description	Valve length (mm)	Wrench size	Installation torque (Nm)	Qty	Vehicle type	Surface	Valve caps
9-513043	34LMS	34	14	4-6	20		-	
9-515003	36LMS	36	14	4-6	20		-	
9-590046	43LMS, silver	43	11	3–5			Elox	
9-512558	43LMS, black	43	11	3–5	20		Elox	
9-512568	43LMS, titanium gray	43	11	3–5	20		Elox	

Only use with nickel-plated valve core to avoid corrosion!

Valve hole 6.3+ 0.4 mm

Brass

Brass

Art. no.	Description	Valve length (mm)	Wrench size	Installation torque (Nm)	Vehicle type	Surface	Valve caps
9-594150	39.5MS Enkie	39.5	11	3–5		Cr	



9-511992







9-511003

Art. no.	Description	Valve length (mm)	Wrench size	Installation torque (Nm)	Qty	Vehicle type	Surface	Valve caps
9-511992	26MS	26	11	5–7	20		Ni	
9-511003	33MS with two sealing rings	33	10	3–5	20		Ni	•
9-511993	39MS with high nut	39	11	5–7	20		Ni	



9-323020



9-030731

Spare parts for 9-511003

Valve hole 8.3+ 0.4 mm

Art. no.	Description	TR no.	Material	Surface
9-323020	Round washer	RW12EQ	Fe	Zn
9-030731	Sealing ring		Rubber	





Valve hole 9.7+ 0.4 mm

Brass 9-516103

Art. no.	Description	Valve length (mm)	Wrench size	Installation torque (Nm)	Qty	Vehicle type	Surface	Valve caps
9-516103	35MS	35	14	4-6	20		Ni	



Valve hole 15.7 + 0.4 mm

Brass 9-512013

Art. no.	Description	TR no.	ETRTO no.	Valve length (mm)		Installation torque (Nm)	Qty	Vehicle type	Surface	Valve caps
9-512013	40MS	416eq	V2.05.2	40	14	3-5	20		Ni	

HIGH-PRESSURE VALVES

Easy to assemble and pressure resistant

- **Application:** Vans, campers
- Pressure range: Up to 7 bar / 102 psi (CVV) Up to 6.9 bar / 100 psi (TR series)
- **Properties:** Combined rubber-metal valve
- **Fit:** Suitable for ETRTO rims
- Series: TR HP/TR XHP and CVV
- **Proper storage:** Cool and dark, protected from sunlight and ozone

NOTE

Do not use valve extensions for high-pressure valves.

Highlights <



ALLIGATOR®

TR high-pressure valves (TR XHP/TR HP)

Standard high-pressure valves

- **Pressure range:** Up to 6.9 bar / 100 psi
- **Properties:** Vulcanized rubber-metal bond

TR HP = TR high-pressure valves **TR XHP**= TR extra high-pressure Valves



SMALL DIFFERENCE - BIG EFFECT TR 600XHP with optimized rubber-metal bond and extra-long metal stem. More stability Higher pressure resistance TR XHP TR HP

Valve hole 11.3 + 0.4 mm

Art. no.	Description	TR no.	ETRTO no.	Valve length (mm)	Pressure range (bar/psi)	Temperature range (°C)	Qty	Vehicle type	Material	Surface	Valve caps
9-095519	TR 600XHP	600HPeq	V3.23.1	43	< 6.9 / 100	-40 / +100	100		CuZn	-	
9-095554	TR 602XHP	602HPeq	V3.23.2	62.1	< 6.9 / 100	-40 / +100	100		CuZn	-	

Valve hole 15.7 + 0.4 mm

Art. no.	Description	TR no.	Valve length (mm)	Pressure range (bar/psi)	Temperature range (°C)	Qty	Vehicle type	Material	Surface	Valve caps
9-521214	TR 801HP	801HP	48.2	< 6,9 / 100	-40 / +100	100		CuZn	-	

CVV (commercial vehicle valves)

Super easy to assemble

- **Pressure range:** Up to 7 bar / 102 psi
- **Properties:** Easy (dis)assembly, high pressure resistance

ADVANTAGES AT A GLANCE

- Secure sealing in the rim
- High pressure resistance
- Simplest hand assembly
- Easy removal without special tools, without rim damage



 Patented thrust washer with predetermined breaking point for disassembly holds valve securely in wheel











Valve hole 11.3 + 0.4 mm

Art. no.	Description	ETRTO no.	Valve length (mm)	Pressure range (bar/psi)	Temperature range (°C)	Qty	Vehicle type	Material Surf	Valve ice caps
9-530050	CVV31	V3.23.3	31	<7/102	-40 / +130	20		CuZn	
9-530060	CVV31 with DS-P	V3.23.3	31	< 7 / 102	-40 / +130	20		CuZn	
9-530021	CVV40	V3.23.4	40	< 7 / 102	-40 / +130	20		CuZn	
9-530020	CVV40	V3.23.4	40	< 7 / 102	-40 / +130	100		CuZn	
9-530031	CVV47	V3.23.5	47	< 7 / 102	-40 / +130	20		CuZn	
9-530030	CVV47	V3.23.5	47	< 7 / 102	-40 / +130	100		CuZn	
9-530041	CVV60	V3.23.7	60	< 7 / 102	-40 / +130	20		CuZn	
9-530040	CVV60	V3.23.7	60	< 7 / 102	-40 / +130	100		CuZn	



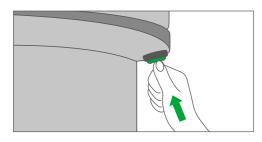
CVV INSTRUCTION

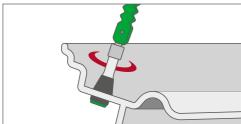
ASSEMBLY

Quick and easy to assemble by hand

Preparation:

- Thoroughly clean the rim flange and valve hole area. Check the valve hole area of the rim for damage.
- Coat the valve with water/soapy water or similar suitable lubricants before installation.





Press the valve in by hand without using too much force. Or mount gently with the ALLIGATOR standard valve mounting tool. The valve must be pulled in axially to the rim hole – do not tilt.





Make sure the valve is fitted correctly in the rim.

ADVANTAGES

Easy manual assembly without special tools.

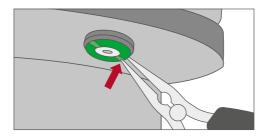
NOTE

In individual cases with an unfavorable rim geometry, you may need to turn the valve slightly for proper fitting.

DISASSEMBLY

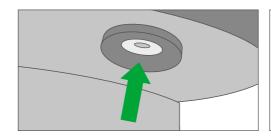
Without rim damage, without special tools

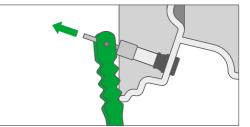






To disassemble, use tongues or a screwdriver to crack the patented thrust washer at the marked predetermined breaking point and remove.





Now the valve can simply be pulled outwards through the valve hole with the ALLIGATOR standard valve mounting tool.

ADVANTAGES

- Easy disassembly without special tools.
- No damage to the rim.