

INSTALLATION GUIDE



COLAS+ dual



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Method of operation

Position 1: (See Figure 1)

'Drive'

When the lever is in the central position, it may be pulled out and locked to prevent unintentional operation. Ports 11 and 12 are linked with ports 21 and 22, providing a direct connection between the height control valve and the air bellows.

'Stop'

When the lever is in the central position and pushed in, ports 11 and 12 are isolated from ports 21 and 22.

Position 2: (See Figure 2)

'Lowering'

Turn the lever approximately 35° in a clockwise direction from the 'Stop' position to link ports 21 and 22 with port 3, and deflate the air bellows.

On release, the lever automatically returns to the central position and isolates ports 21 and 22 from port 3, preventing further deflation of the bellows

'RoRo' (Lowering fixed)

Turn the lever approximately 35° in a clockwise direction from the 'Stop' position, then push it down. This setting inactivates the dead man's function, and fixes the lever in this position. Ports 21, 22, and 3 are now linked together, and the bellows are permanently exhausted.

Figure 1

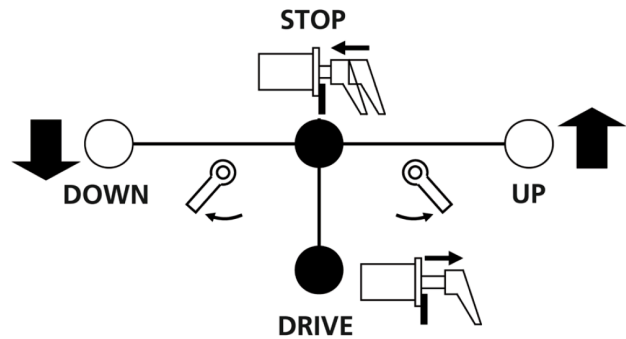
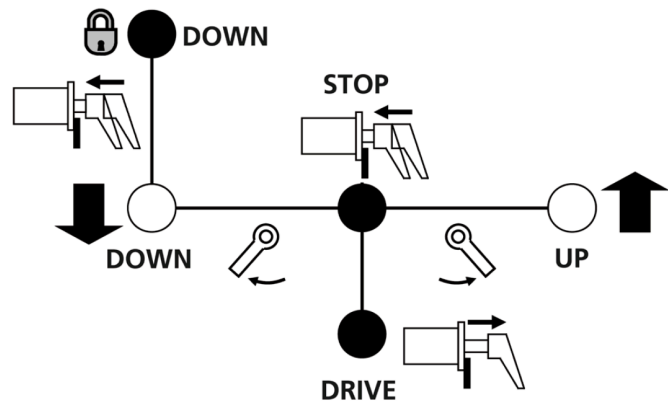


Figure 2



Attention - Danger!

No one should stand near the vehicle while raising and lowering operations are underway.

Method of operation

Position 3: (See Figure 3)

'Raising'

Turn the lever approximately 35° in a clockwise direction from the 'Stop' position to link ports 21 and 22 with port 1 and inflate the bellows.

On release, the lever automatically returns to the central position and isolates ports 21 and 22 from port 1, preventing further charging of the bellows.

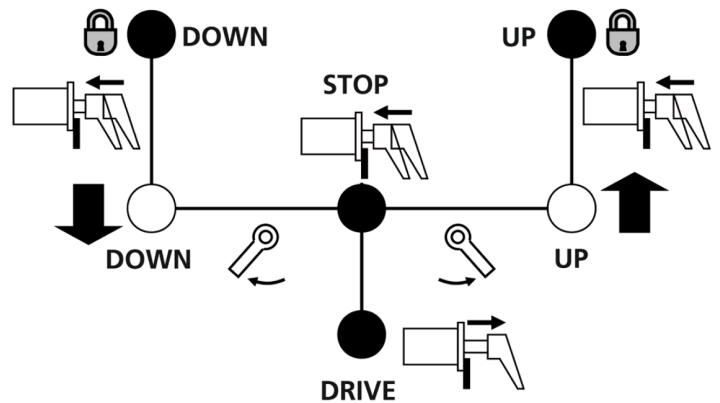
Reset from 'Stop' to 'Drive'

When the lever is in the central position it may be locked by pulling it out, so that unintentional operation is prevented.

Reset from 'Lowering fixed' to 'Drive'

When the lever is in the fixed position, it may be locked by pulling it out, then turning it to the central position. Pull the lever out to the 'Drive' position so that unintentional operation is prevented.

Figure 3



Fitting guidelines

Electrical

The electrical reset function is available on 24 Volt EBS systems only. Bayonet, according to DIN72585, is not applicable to North American ABS 12V systems.

Pneumatic (See Figure 4)

Pneumatic connections should follow assembly diagrams. Take care to protect the exhaust port 3 against contamination.

When assembling the air system, ensure that the tubing is cut square and free from burrs.

It is advisable to use the equipment in conjunction with a height limitation device (e.g., Haldex height control valve with height limitation) to avoid exceeding permissible height when raising the deck. Protect all open plug and socket connections and exhausts against contamination during painting.

After painting, remove protective devices. Affix instruction label 028 0478 09 (shown at right) in the vicinity of the COLAS⁺ valve.

Mechanical installation

Mount the assembly with a minimum of 2 x M8 bolts via holes provided on the housing. Tightening torque is 15+2 Nm. The selected installation location should be clear of direct spray or splash and afford some protection from high-pressure cleaners.

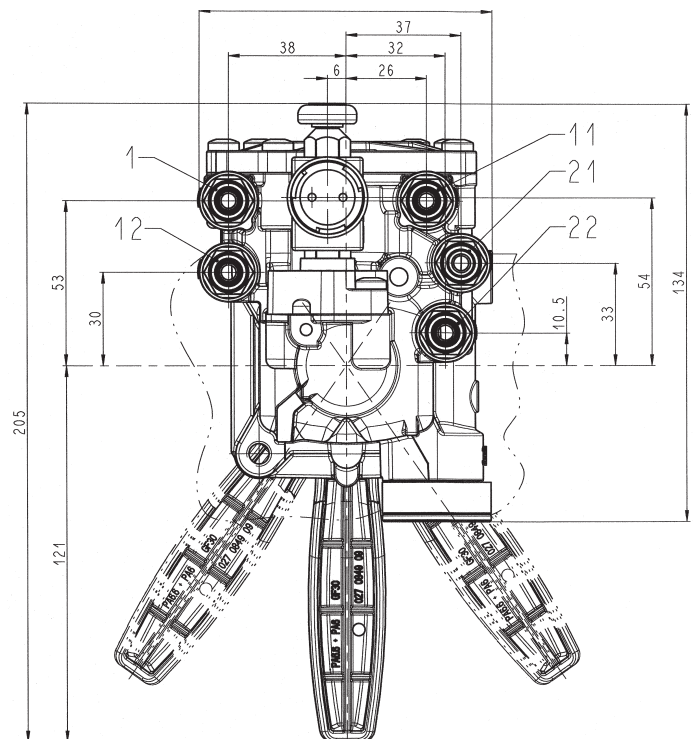
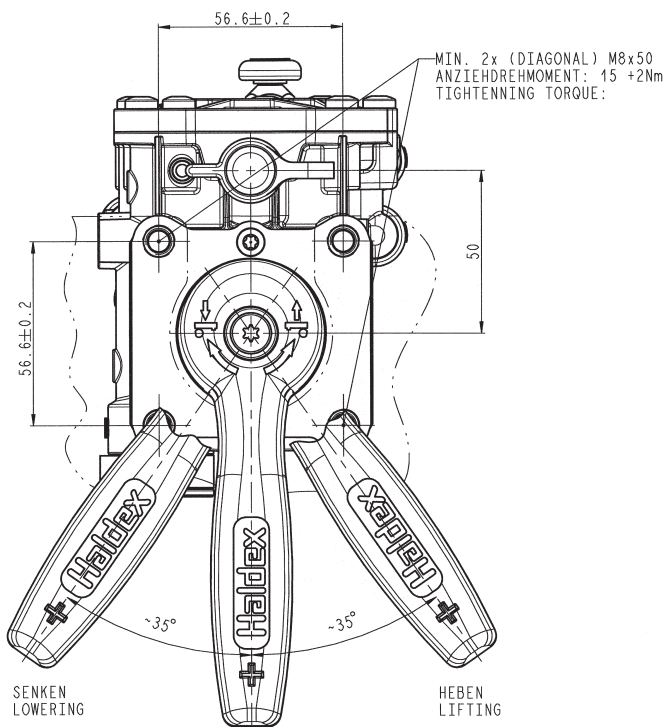
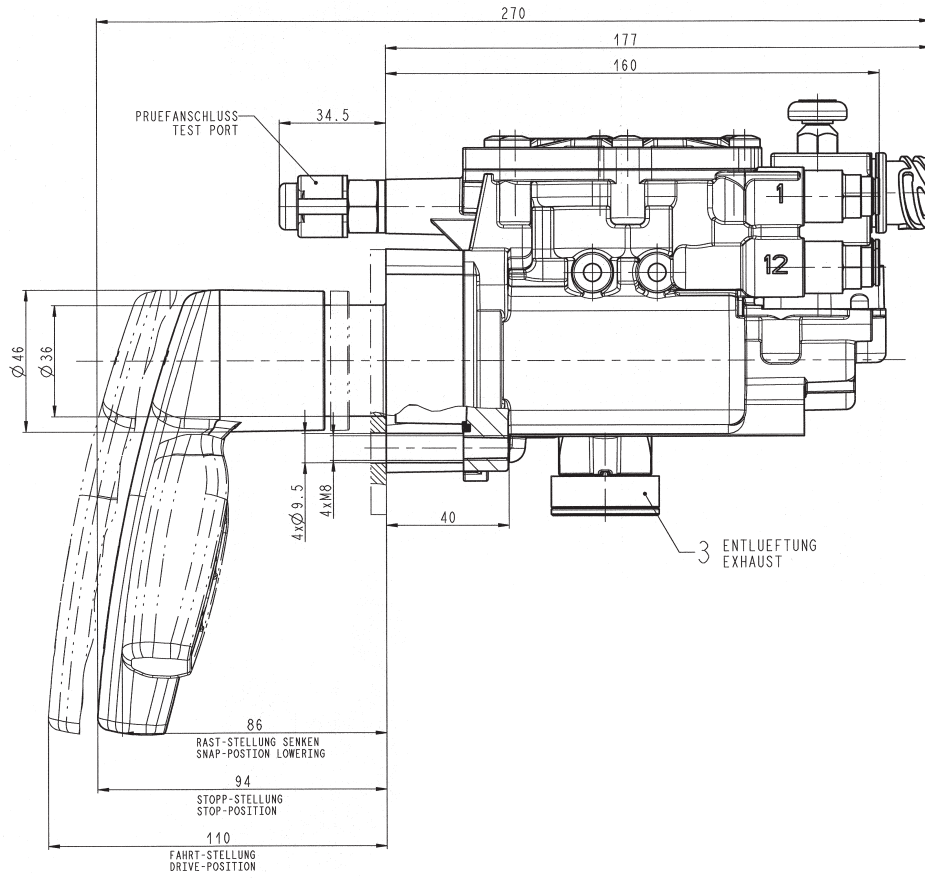
The operating lever should be easily accessible. Take care to ensure the lever does not protrude from the edge of the vehicle when pulled out. If needed, protection against unintentional operation should be provided by the vehicle manufacturers.



**NOTE: Illustration is for handle position reference only. At a speed over 15 km/h or 9.32 mph (manufacturer defined), automatic resetting takes place from the "Stop" to the "Drive" position. This is only for 24V applications using EBS+.*

Ensure that no one is within the close vicinity of the vehicle/trailer during any raising/lowering operation.

Design and function



Maintenance

COLAS⁺ is effectively maintenance free and only needs to be changed if the functionality is compromised or you detect leakage during normal servicing.

**NOTE: With high-pressure cleaners, observe a safe distance of at least 20 inches from the COLAS⁺.*

Testing

- Check function and leak-tightness of equipment
- Correct assembly position
- Instruction label in position

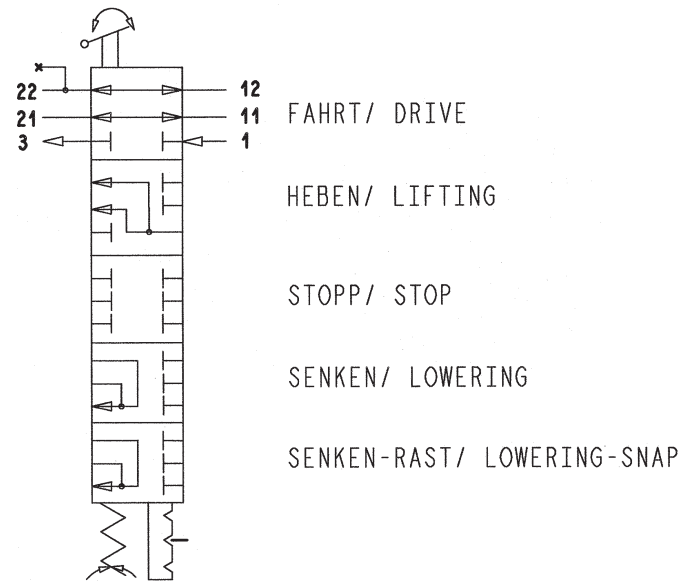
Technical data

Operating pressure	p_e max 123 psi
Operating temperature	-40°F to +176°F
Solenoid	
Permissible	10 s
Voltage	$U_B = 24VDC \pm 7/-8$
Current/power	$I_o = 150mA / P_o = 3.5W$
Type of protection	DIN 40050-IP 6K 9K

Port description (See Figure 4)

- 1 = Supply, DIN 74324-8x1
- 11, 12 = Levelling valve, DIN 74324-8x1
- 21, 22 = to the air bellows, DIN 74324-8x1.5
- 3 = Exhaust

Figure 4



Part information

90555757: with 3/8" Push-To-Connect, Test Point, DIN connection and filter.



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