



Manual

Quick Acting Drain Valve SSV 6

Date: 08/2019

W 4131.6.01_E_2019_08

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Please read the entire manual carefully before installing or operating the quick acting drain valve SSV6!



1. INTENDED USE

The quick acting drain valve SSV 6 is designed to drain oil out of refrigeration systems.

2. SAFETY REQUIREMENTS

Any work must be carried out by knowledgeable personnel who have been trained to install and service refrigeration plants and are familiar with the necessary legal requirements and regulations that apply. All safety regulations and codes of practice concerning the use of refrigerants must be adhered to, special protection clothing and safety glasses must be worn. The recommendations of Regulation EN 378 must be followed.

The nominal pressure of 25 bar must not be exceeded.



While draining oil make sure the oil is collected in a suitable container, this should be filled with approximately 10 l water to absorb any refrigerant pass over.

The quick acting drain valve SSV6 must always be installed with an inlet isolation valve and be removed upon termination of the work with the safety cap placed back to the isolation valve.



Special attention should be paid to protective clothing and safety glasses, as it cannot be entirely ruled out that some oil/refrigerant may escape at the ring of the handle when pressure is building up in the connecting pipe.

3. TERMS OF WARRANTY

To avoid accidents and for safety the quick acting drain valve SSV6 should only be used for the intended use. No modifications or conversions may be carried out to the SSV6 without the explicit written approval of TH. WITT Kälemaschinenfabrik GmbH.

Our liability of warranty is void if:

The instructions were not followed correctly,
The SSV6 is operated incorrectly or is installed contrary to these installation instructions
The SSV6 is used for applications other than that for which it was intended,
Modifications have been made without written approval from TH. Witt
Safety regulations or codes of practice have been ignored

4. SCOPE OF DELIVERY

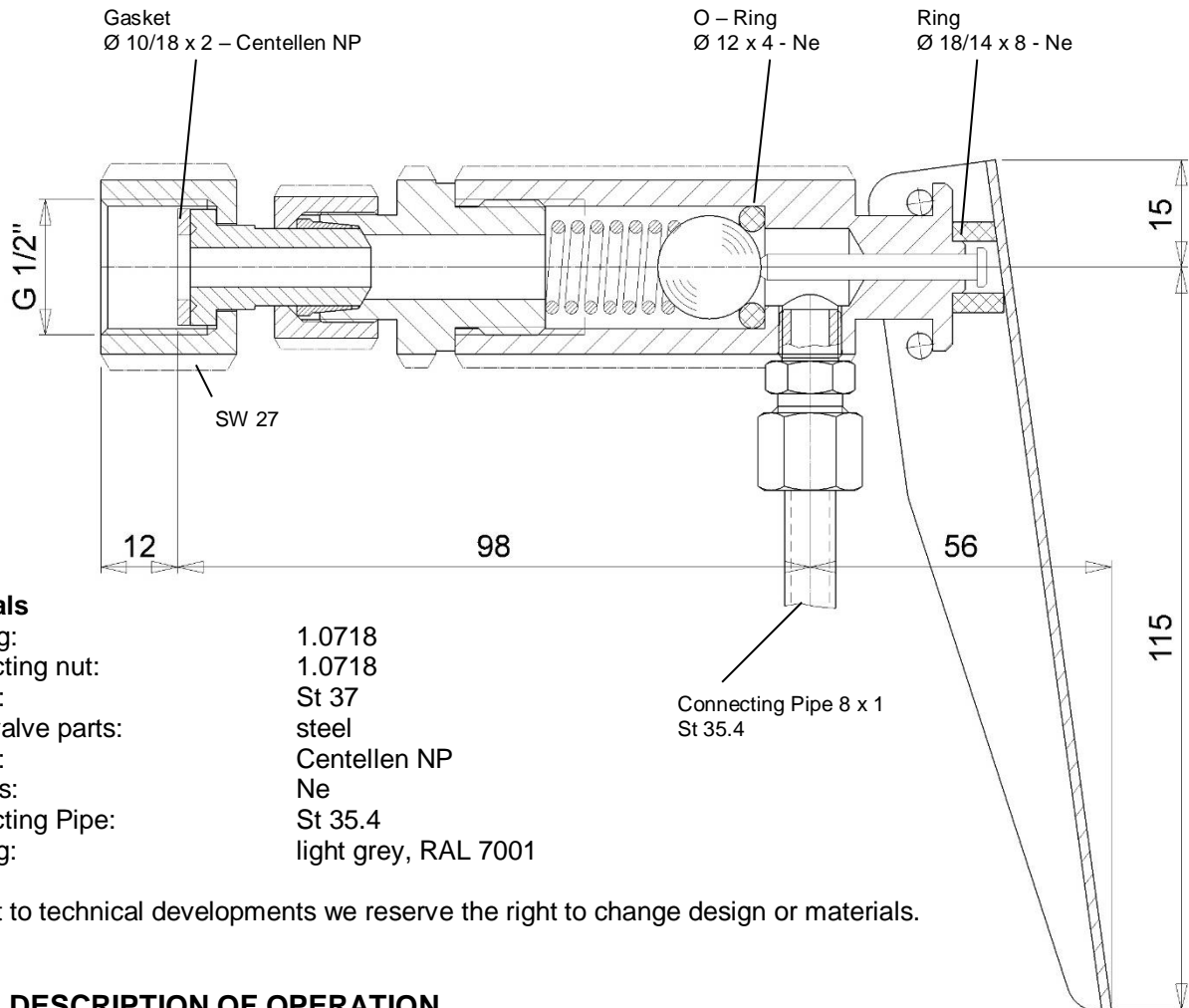
- Quick acting valve SSV 6
- ~ 0,5 m connecting pipe as an elbow (packed loose)
- one gasket \varnothing 10 / 18 x 2

5. TECHNICAL DATA

Article number: 4131.000001
Nominal Pressure: 25 bar
Dimensions: ca. 150 mm x 150 mm
Weight: 0,5 kg

Pressure-/Temperature Range

PS		TS
20 bar		until + 150°C
22 bar		until + 120°C
25 bar	+ 75	until - 10°C
21 bar		until - 60°C



Materials

Housing:	1.0718
Connecting nut:	1.0718
Handle:	St 37
Other valve parts:	steel
Gasket:	Centellen NP
O-Rings:	Ne
Connecting Pipe:	St 35.4
Painting:	light grey, RAL 7001

Subject to technical developments we reserve the right to change design or materials.

6. DESCRIPTION OF OPERATION

The quick acting valve SSV6 is intended to drain oil out of refrigeration systems. The drain line should be connected to an oil sump pot at the lowest point of the surge drum, or bottom of the shell of a tube and shell heat exchanger. Using a suitable transparent fabric lined pressure-type hose, connected to the inlet pipe secured with a clamp. (According to EN 378 the hose must not exceed a length of 5 m). The hose should drain into a suitable container filled with approximately 10 l water. The water should absorb any refrigerant that is drained off with the oil.



To avoid any pressure build up the hose must be connected to an open container!

When the above precautions have been carried out the inlet stop valve is opened and the oil drain valve opened by pushing down the handle towards the connecting pipe. (see picture on the right side)

Refrigerant in the oil can be seen when oil being drained turns milky. This indicates the oil has been correctly drained and the hand pressure on the handle should be released. The inlet stop valve should then be closed and the SSV6 be removed and stored in a safe and dry place until needed again.



Drained oil must be stored or disposed in accordance with local environmental regulations. Measure the PH-value of the water to determine if the water needs to be diluted before disposing into the sewer system.





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7. TRANSPORT AND SHIPPING

During storage or transportation the SSV6 should be kept dry at all times. Make sure no moisture or dirt can contaminate the SSV6.

8. INSTALLATION

Install the drain valve in a correct position and secure it with the connecting locking nut. (Using the required gasket supplied with the valve). The connecting pipe should be installed with an Ermeto screw connection and aligned in such a way that the opening is facing away from any personnel. Always consider sufficient space for the operation of inlet stop valve and quick acting drain valve SSV6.



The SSV6 should not be exposed permanently to system pressure when not in use and therefore removed after work is completed. This will also avoid moisture can condensate inside the valve and cause rusting. There must be a stop valve installed at the inlet to the SSV6 with a safety cap in place while the SSV6 is not installed.

9. COMMISSIONING

Operate the quick acting drain valve only if you are sure all connections have been correctly made.

10. OPERATION

Make sure there is sufficient water in the collection container and that there is sufficient additional volume for the drained oil. Check that the hose connections are always tight and secure on the connecting pipe.

Open the stop valve and drain oil until it starts to become milky.

Make sure the stop valve is closed after each operation, the SSV6 removed and stored in a dry place.

When operating the SSV6 you should always wear protective clothing as per codes of practise, e.g. EN 378

11. MAINTENANCE AND INSPECTION



Any tests or visual inspection should be carried out according to EN 378-2.