SIEMENS

Sinorix™

LOCKVAL-140-50

IG-01, IG-55, IG-100, IG-541, CO2

Lockout valve for discharge piping

- Manually operated ball valve in the discharge pipe between nozzles and agent supply to prevent flow of agent to the protected area
- Can be locked with padlock
- Nominal diameter: DN50
- Nominal pressure: 140 bar
- With limit switches to monitor lever/ball valve position

Use

This product must only be used with Sinorix™ fixed automatic extinguishing systems.

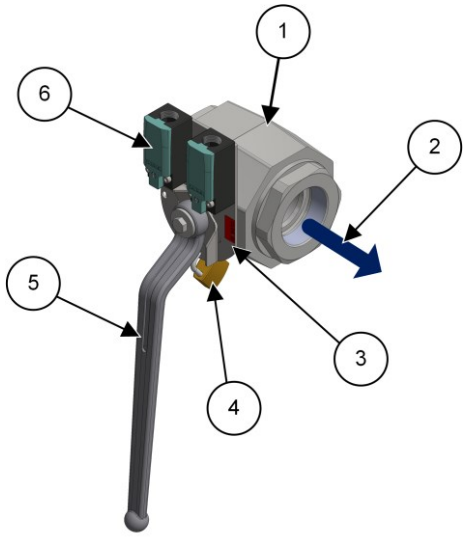
Functions

The LOCKVAL-140-50 lockout valve is used to isolate the extinguishing system while maintenance work is performed. The lockout valve is a manually operated valve in the discharge piping between the nozzles and the agent supply to prevent flow of agent to the protected area.

The lever can be locked when the valve is open or closed.

The key can be removed when the valve is open or closed.

Type summary



Item	Description	Item	Description
1	Ball valve BSP thread: G2”	4	Padlock (to be ordered separately)
2	Flow direction	5	Lever
3	Mounting plate for limit switches	6	Limit switches

Product information

Reference	Description	Product code
LOCKVAL-140-50	Lockout valve	S54476-B77-A22

Equipment combinations

Reference	Description	Product code
MANI50-M85-G2	Selector valve holder DN50	S54476-B778-A3
MANI50-NL-Q2-K	Seal head	S54476-B742-A2
MANI50-NL-F85	Swivel nut	S54476-B742-A3
ACTF230-PADLOCK	Padlock Blocking Lever	S54476-B980-A4

Product documentation

Type	Title	Document ref.
Engineering, Installation, Operation, Maintenance	Sinorix™ NXN CDT-IG-x-200, CDT-IG-x-300	A6V12758454
Engineering, Installation, Operation, Maintenance	Sinorix™ NXN CO2	A6V12758456

Related documents such as the environmental declarations, declarations of conformity, etc., can be downloaded from the following Internet address:

www.siemens.com/bt/download

Notes

Safety

This product may only be installed by Siemens-authorized specialized installers, with experience in the design, installation, and maintenance of automatic extinguishing systems. During installation, it must be ensured that:

- this product is installed in compliance with the accident prevention regulations and national regulations in force,
- this product is used as intended,
- any danger is avoided,
- Siemens requirements are met (assembly instructions, technical instructions, commissioning, and operating instructions),
- the operators have received and understood the information related to this product.

At commissioning, ensure compliance with the legislation in force, technical regulations, and safety instructions.

Failure to comply with Siemens' instructions may result in serious bodily injury or significant property damage, for which Siemens cannot be held liable.

Siemens reserves the right to make technical modifications and/or improvements at any time.

Design

Coefficient of flow characteristics for hydraulic calculation software

In the open state, the ball valve has full passage and can be considered equivalent to a pipe over its overall length.

Mounting

⚠ WARNING	
	No changes permitted No product modifications permitted.

Pre-mounting:

- Check that the threads are not damaged and are free of dirt, grease and adhesive residues.

⚠ WARNING	
	Transmission of incorrect signals To prevent any transmission of incorrect signals, do not change the setting of the limit switches.

To mount the product:

- Check that the mounting support is stable.
  ***NOTICE!* Do not mount the product on a machine part. Mount the product only on a wall construction.**

	The product can be mounted in any position.

- When using a Quantum fitting, make sure not to damage the O-Ring.
- When mounting the lockout valve on standard piping, use an appropriate sealant.
- Only use sealants suitable for the piping upstream and downstream of the lockout valve.
- If the lockout valve is mounted on the piping through its internal thread, counterhold the threaded connections of the ball valve during mounting to avoid tightening or loosening them.
- Follow the gas flow direction.
- For the electrical connection of the limit switches of the lockout valve and the monitoring of its position, only use resistors that are compatible with the ECP used.

Commissioning

The circuit diagram below illustrates the position of the limit switches and the position of the lever.

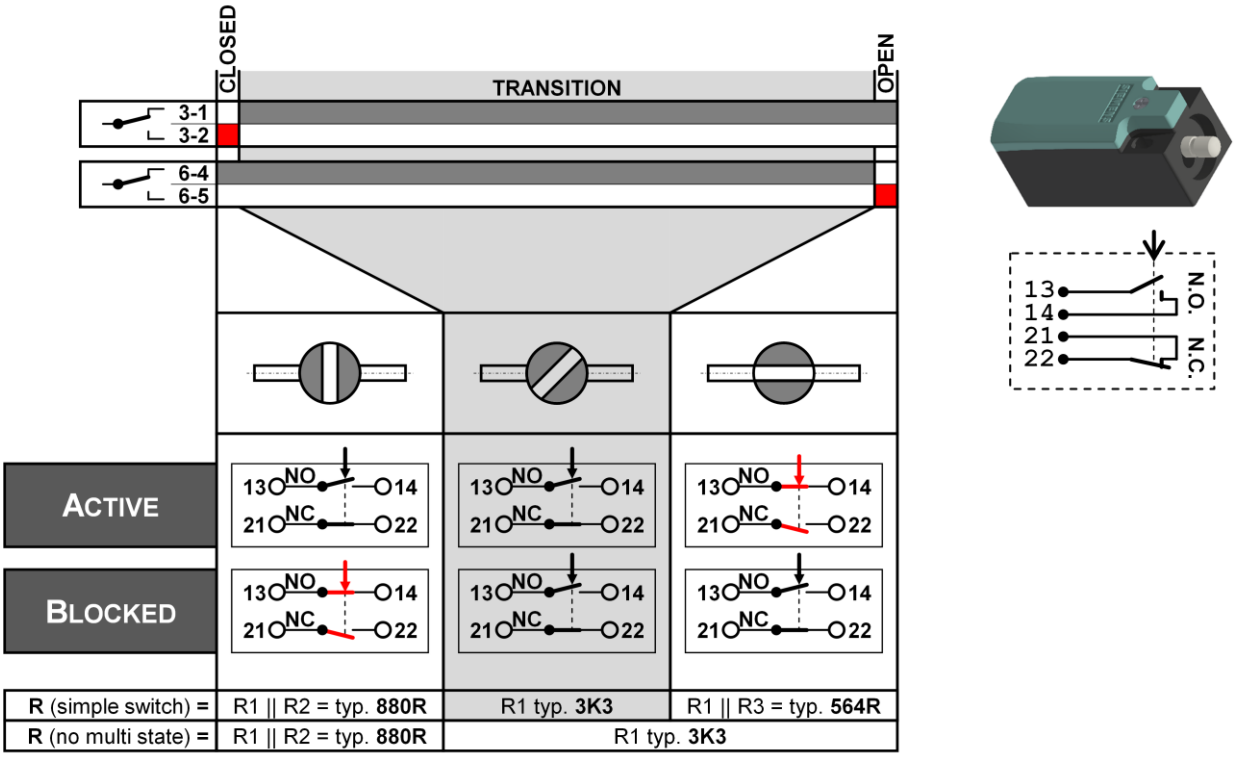


Fig. 1: Switchbox

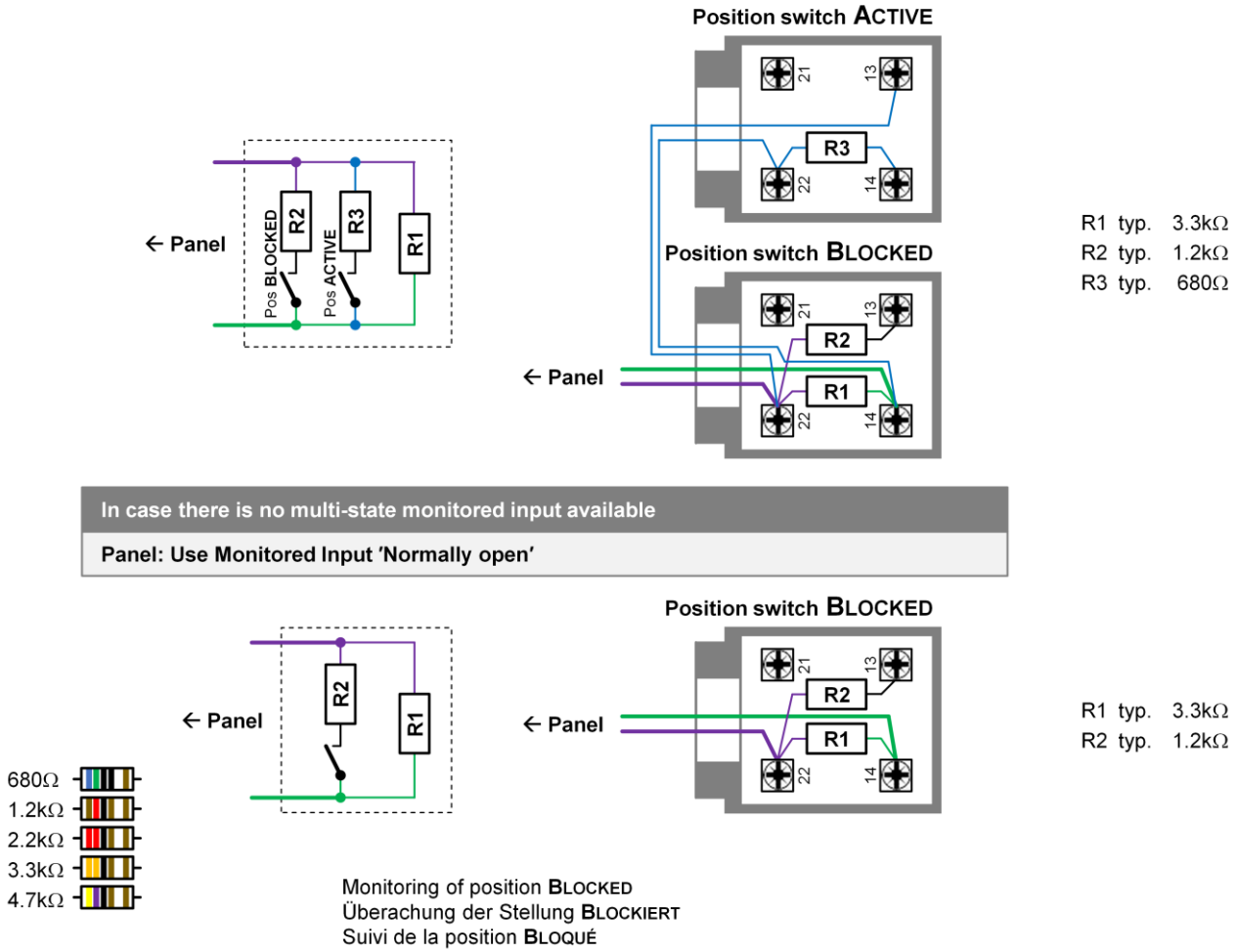


Fig. 2: Monitoring of the closed position

Refer to the commissioning instructions for detailed assembly procedures.

Maintenance

Storage

- Store in its original packaging, protected from shocks.
- Store in a clean and dry location, protected from bad weather.

Inspection

⚠ WARNING	
	Hazardous pressure To avoid any accidental actuation of the system, disable the system before performing any work.

- Check that the product and its connections (to the discharge network and the pilot circuit) are in good condition.
- Actuate the valve manually and check that the connecting shaft can fully rotate.
- Check that the limit switches can properly scan the end position.
  Sample routine:
  - Control the lockout valve manually.

– Visually inspect the lockout valve: there must be no damage, leakage, contamination or loose parts.
– Document the test results.
– Reset the lockout valve manually by bringing it completely back to the open position (ready for operation).

The product must be inspected as often as required by applicable local regulations. For more information, refer to the maintenance documentation.

If the lockout valve is hard to operate or stuck, use an open-end wrench with an extension (such as a piece of tubing) to increase leverage.

Technical data

Technical data	
Nominal pressure	140 bar
Threads of ball valve	BSP G2" internal thread
Inner diameter of ball valve	48 mm
Extinguishant	IG-01, IG-55, IG-100, IG-541, CO2
Mounting position	User defined
Flow direction	Following arrow direction on valve body
Materials	Galvanized steel, stainless steel, aluminum, elastomer
Operating temperature	-20 °C to +50 °C, non-condensing
Transport and storage temperature	-20 °C to +65 °C, non-condensing
Weight	9.01 kg

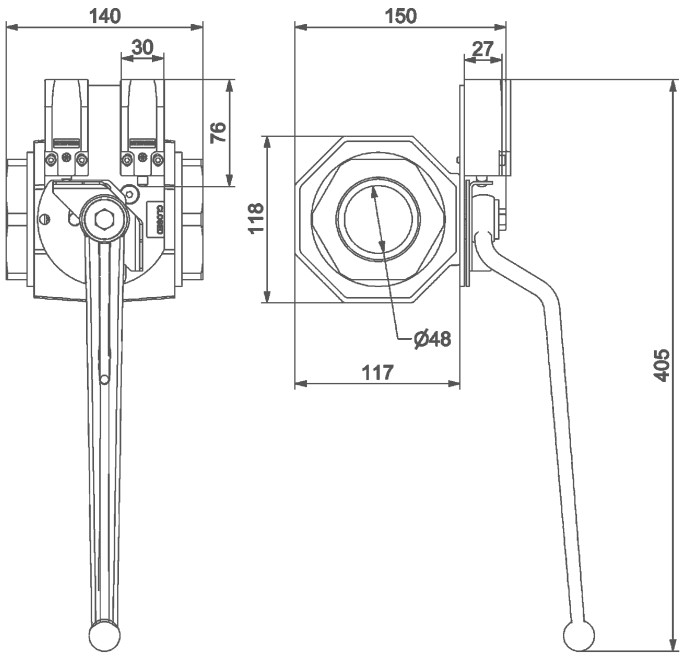
OEM type	
	F3024000

Marking on ball valve	
Marking on ball valve	GERMANY Manufacturing date: YYYY/WW FiWaRec + Flame Logo E7050008 DN50-G2 PN140 8-digit number: xxxxxxxx CE 1637, UKCA 0120 (valid for ball valve only)
Marking on limit switch metal sheet	F3024000-001 Manufacturing Date YYYY-WW

Standards, directives and approvals	
2014/68/EU (PED)	Compliant
2011/65/EU (RoHS)	Compliant
UL/ULC	Listed Clean Agent Extinguishing System Unit covered by UL-File EX28263 Listed Carbon Dioxide Extinguishing System Unit covered by UL-File EX29687
FM	Part of the Clean Agent Extinguishing System approval Part of the Carbon Dioxide Extinguishing System approval

Dimensions

Dimensions in mm



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