

RK 41

RK 44

RK 44S

RK 70

RK 71

Installation Instructions 808519-00
Non-Return Valves RK



Important Safety Note



The valve must only be installed by qualified staff.

Qualified staff are those persons who – through adequate training in engineering, the use and application of safety equipment in accordance with regulations concerning safety systems, and first aid & accident prevention – have achieved a recognised level of competence appropriate to the installation and commissioning of this device.

Proper Use

The non-return valves RK are automatic-stop check valves used in pipes to prevent a backflow of fluid within the admissible pressure/temperature ratings.

Contact the Factory for specific recommendations concerning the chemical resistance and suitability of the valve material in a given application.

Danger



The valve is under pressure during operation.

When loosening flanged connections or sealing plugs, hot water, steam, corrosive fluids or toxic gases may escape. This presents the risk of severe burns and scalds to the whole body or severe cases of poisoning.

Installation and maintenance work should only be carried out when the system is depressurized.

The valve becomes hot or extremely cold during operation. This presents the risk of severe burns to hands and arms. Installation and maintenance work should only be carried out at room temperatures.

Sharp edges on internals present a danger of cuts to hands. Always wear industrial gloves for installation and maintenance work.

Ratings pursuant to article 9 of the PED¹⁾



Fluid	gas		liquid	
	1	2	1	2
Use	no	yes	no	yes

Category	Exception pursuant to article 3.3	Exception pursuant to article 3.3	I
Nominal size DN	15-80	100-150	100-200
CE marking	no	no	yes
Type	all	RK 70	all RK 70 only DN 200 RK 71 only DN 100

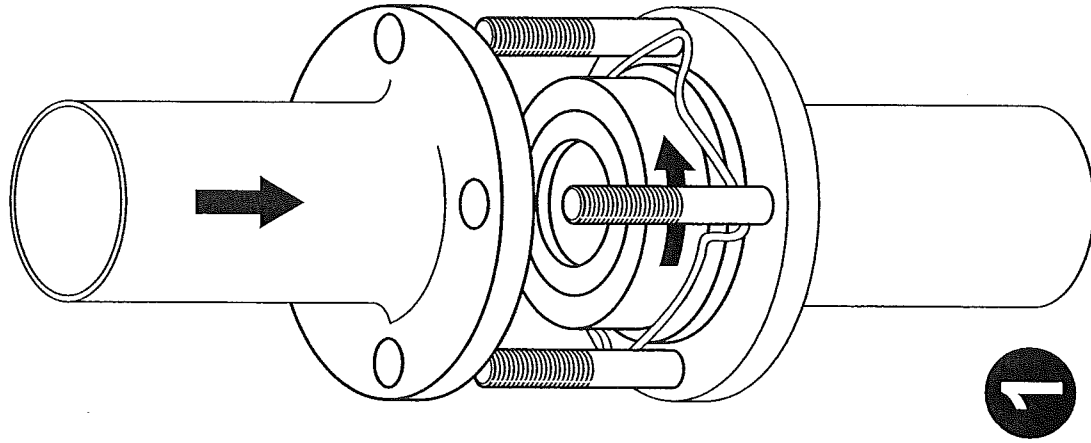
¹⁾ PED = Pressure Equipment Directive

Description

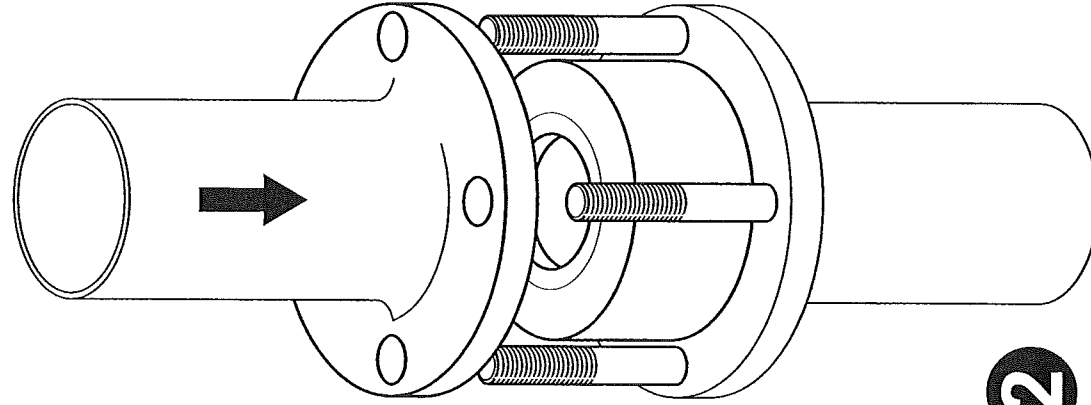
GB

Non-return valve RK with spiral centering ring or self-centering body.
Installation in any position. Exception: Valves without spring can only be installed in vertical lines with upward flow.

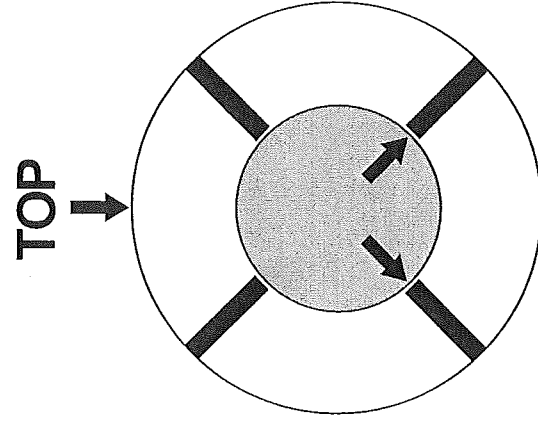
- 1 Non-return valve with spiral centering ring
- 2 Non-return valve with self-centering body
- 3 Position of guide ribs (horizontal installation)



1



2



3

Technical Data



RK 41/44 DN 15-100				
ts	[°C]	20	200	250
	[°F]	68	392	482
ps	[barg]	16	14	13
	[psig]	232	203	189

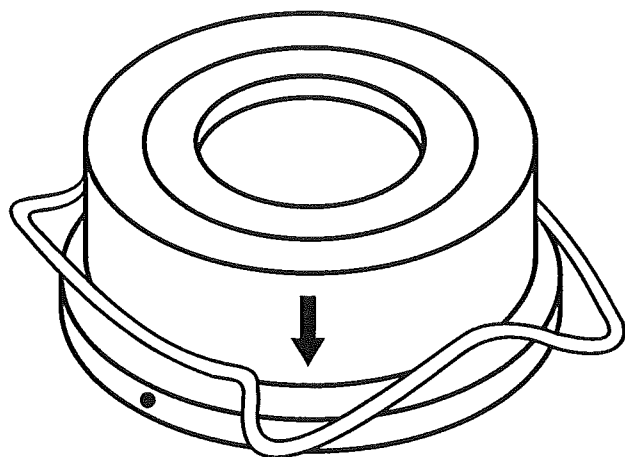
RK 41/44 DN 125-200				
ts	[°C]	20	200	300
	[°F]	68	392	572
ps	[barg]	16	14	13
	[psig]	232	203	189

RK 70 DN 15-200				
ts	[°C]	20	100	130
	[°F]	68	212	266
ps	[barg]	6	1.5	0.5
	[psig]	87	22	7

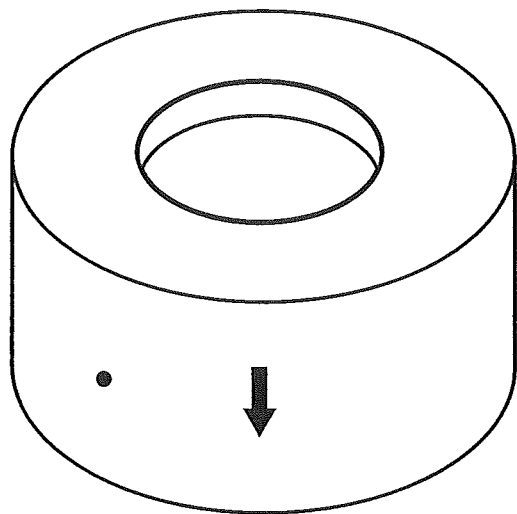
RK 71 DN 15-100				
ts	[°C]	20	120	250
	[°F]	68	248	482
ps	[barg]	16	16	13
	[psig]	232	232	189

Max. service temperature for RK 44s with spring: 90°C
 For RK 44s **without** spring see table above.
 For more information see data sheets.

Name Plate / Marking



Type: RK ...
DN: ...
PN: ...
.....



Type: RK ...
DN: ...
PN: ...
.....

CE Declaration of Conformity

GB

We hereby declare that the pressure equipment **RK 41, 44, 44s, 71 PN 16 DN 100-200; RK 70 PN 6 DN 200**, conform to the following European Directive:

■ EC Pressure Equipment Directive (PED) No. 97/23 of 29 May 1997
GESTRA non-return valves are pressure equipment as defined in article 1, section 2.1.4 of the PED.

Applied conformity assessment procedure: Module A as described in Annex II and III.

This declaration is no longer valid if modifications are made to the equipment without consultation with us.

Bremen, 31.01.2001
GESTRA GmbH

Academically qualified engineer

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GESTRA GmbH

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