






Safety Valves



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Safety Valves



The **RIEGER Safety valve Type SH** prevents undue pressure excesses of liquid and gaseous media in plants and vessels. The set pressure is always higher than the operating pressure of the plants. As soon as this pressure is reached, the valve opens against the force of the spring. Full stroke is already reached as soon as the pressure is 10 % higher than the set pressure.

The pharmaceutical and chemical industries as well as biotechnology, beauty culture, the food and beverage industries are the ideal fields of application for the RIEGER safety valve.

Your advantages

Design	housing made from solid bar no dead space completely drainable
Absolute product safety	high-grade inner surfaces no sump, no dome
Serviceable maintenance	change of seals without special tools safety: closed spring cap easily and perfectly cleanable
Efficiency	modular assembly systems connections suitable for orbital welding standard seals low spare part cost

Technical Data

Material	product contact	1.4404/AISI316L
	optional	1.4435/AISI316L
	non product contact	1.4301/AISI304
Seals	O-rings	EPDM (FDA)
	Temperatures maximum	operating temperature 130 °C (266 °F) sterilizing temperature 150 °C (300 °F) short-time* (approx. 20 min)
Pressure	set pressure	1,5 (22 psi) to 8 bar (116 psi) resp. 2 (29 psi) to 8 bar (116 psi) see page 3
	control air pressure	min. 6 bar (87 psi)- max. 10 bar (145 psi)
Surfaces	product contact	RA <= 0,8 µm
	optional	e-polished
	non product contact	RA <=1,6 µm
Connections	DIN 11850-R2 (DIN 11866 A)	
Types	pneumatically liftable	
	manually operated with lever for cleaning	
	pneumatically liftable combined with lever	



TÜV-approval for steam and gas

*dependent upon operating conditions



Safety Valves



RIEGER safety valves highly prevent undue pressure excesses because of their design: the inlet size is smaller than the outlet size.

The sizes	α -value
DN10/15	0,15
DN15/20	0,15
DN 20/25	0,15
DN 25/40	0,08
DN 40/50	0,08
DN 50/65	0,08

passed the EC type-examination (Module B) according to Directive 97/23/EG

for steam and gas

for the set ranges

**from 1,5 (22 psi)
to 8 bar (116 psi),**

**but for DN 25/40
from 2 (29 psi)
to 8 bar (116 psi).**

The corresponding certificate issued by

TÜV Industrie Service GmbH
TÜV SÜD Gruppe
Abteilung Druckbehälter
Dudenstraße 28
D-68167 Mannheim

is shown on this page.



ZERTIFIKAT Certificate

EG-Baumusterprüfung (Modul B) nach Richtlinie 97/23/EG
EC Type-examination (Module B) according to Directive 97/23/EG

Zertifikat-Nr.: Z-IS-DDB-MAN-07-01-13086879-001
Certificate No.:

Gültigkeit / Validity: 10 Jahre / 10 Years

**Name und Anschrift
des Herstellers:**

Name and postal address of manufacturer:

**Gebr. Rieger GmbH & Co. KG
Maschinenfabrik
Kochertalstraße 32
73406 Aalen**

Hiermit wird bescheinigt, daß das unten genannte EG-Baumuster die Anforderungen der Richtlinie 97/23/EG erfüllt.
We hereby certify that the type mentioned below meets the requirements of the Directive 97/23/EC.

Prüfbericht Nr.:
Test report No.:

P-IS-DDB-MAN-07-01-13086879-001
P-IS-DDB-MAN-06-01-13086879-001
P-IS-DDB-MAN-07-01-13086879-002

Geltungsbereich:
Scope of examination:

Sicherheitsventile der Typen
SH 01, SH 04 und SH 14 in den Baugrößen
NW 10x15, 15x20, 20x25, 40x50 und
50x65 (Einstelldruck 1,5 – 8 bar) sowie
25x40 (Einstelldruck 2 – 8 bar)

Fertigungsstätte:
Manufacturing plant:

Gebr. Rieger GmbH & Co. KG
Maschinenfabrik
Kochertalstraße 32
73406 Aalen

TÜV SÜD Industrie Service GmbH

Mannheim, 05. Februar 2007
(Ort, Datum)

(Place, date)

Bitte beachten Sie die Hinweise auf der zweiten Seite.
Please note the remarks on the second page.

TÜV-CERT-Zertifizierungsstelle
für Druckgeräte

(Dr. M. Michael Arras)
Benannte Stelle, Kennnummer 0036
Notified Body, No. 0036

TÜV Industrie Service GmbH
TÜV SÜD Gruppe
Abteilung Druckbehälter
Dudenstraße 28
68167 Mannheim

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www.tuev-sued.de

Mitglied der
CONFEDERATION EUROPEEN
CEOC
D'ORGANISMES DE CONTROLE

060006 DGR 2007 Modul B

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DGR Zertifikat Modul B.doc

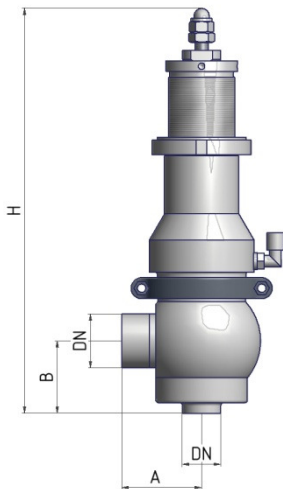


Safety Valves



Safety Valve SH1.01

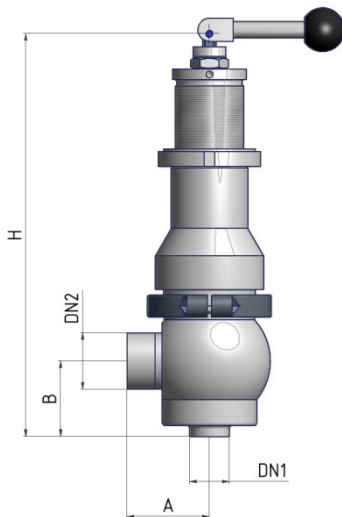
pneumatically liftable for cleaning



DN	DN 1 / DN 2	A	B	H	Pmin	Pmax
bar						
10/15	13 x 1,5 / 19 x 1,5	40	40	215	1,5	8
15/20	19 x 1,5 / 32 x 1,5	45	45	222	1,5	8
20/25	23 x 1,5 / 29 x 1,5	50	50	265	1,5	8
25/40	29 x 1,5 / 41 x 1,5	60	60	304	2	8
40/50	41 x 1,5 / 53 x 1,5	80	70	358	1,5	8
50/65	53 x 1,5 / 70 x 2	100	80	387	1,5	8

Safety Valve SH4.01

liftable with lever for cleaning



DN	DN 1 / DN 2	A	B	H	Pmin	Pmax
bar						
10/15	13 x 1,5 / 19 x 1,5	40	40	215	1,5	8
15/20	19 x 1,5 / 23 x 1,5	45	45	222	1,5	8
20/25	23 x 1,5 / 29 x 1,5	50	50	265	1,5	8
25/40	29 x 1,5 / 41 x 1,5	60	60	304	2	8
40/50	41 x 1,5 / 53 x 1,5	80	70	358	1,5	8
50/65	53 x 1,5 / 70 x 2	100	80	387	1,5	8

pressure range 1: from 1,5 resp 2 bar to 2,9 bar

pressure range 2: from 3 to 8 bar



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Safety Valve SH1.01

pneumatic liftable – EPDM-seals

DN	Reference Number	Price
10/15	50001.1000.01.0102.32	770 €
15/20	50001.1000.01.0203.32	770 €
20/25	50001.1000.01.0304.32	770 €
25/40	50001.1000.01.0406.32	843€
40/50	50001.1000.01.0607.32	1246 €
50/65	50001.1000.01.0708.32	1374 €

Safety Valve SH4.01

liftable with lever – EPDM-seals

DN	Reference Number	Price
10/15	50002.1000.01.0102.32	832 €
15/20	50002.1000.01.0203.32	832 €
20/25	50002.1000.01.0304.32	832 €
25/40	50002.1000.01.0406.32	908 €
40/50	50002.1000.01.0607.32	1311 €
50/65	50002.1000.01.0708.32	1446 €

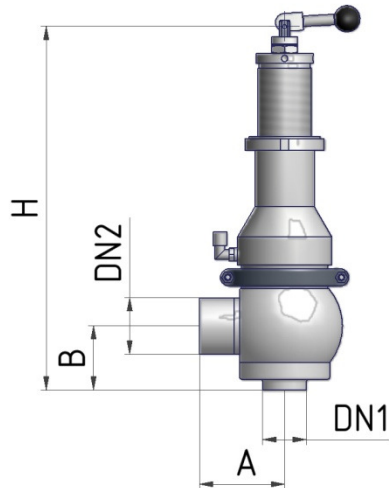


Safety Valves



Safety Valve SH14.01

pneumatically liftable and with lever - for cleaning- EPDM-seals



DN	DN 1 / DN 2	A	B	H	Pmin	Pmax
bar						
10/15	13 x 1,5 / 19 x 1,5	40	40	215	1,5	8
15/20	19 x 1,5 / 32 x 1,5	45	45	222	1,5	8
20/25	23 x 1,5 / 29 x 1,5	50	50	265	1,5	8
25/40	29 x 1,5 / 41 x 1,5	60	60	304	2	8
40/50	41 x 1,5 / 53 x 1,5	80	70	358	1,5	8
50/65	53 x 1,5 / 70 x 2	100	80	387	1,5	8

pressures range 1: from 1,5 resp. 2 bar to 2,9 bar

pressure range 2: from 3 to 8 bar



Safety Valves



Safety Valve SH14.01

pneumatically liftable and with lever - for cleaning– EPDM-seals

DN	Reference Number	Price
10/15	50003.1000.01.0102.32	854 €
15/20	50003.1000.01.0203.32	854 €
20/25	50003.1000.01.0304.32	854 €
25/40	50003.1000.01.0406.32	930 €
40/50	50003.1000.01.0607.32	1333 €
50/65	50003.1000.01.0708.32	1470 €

Spare Parts

Set of Wearing Parts

EPDM		
DN	Reference Number	Price
10/15	5005251	17 €
15/20	5005250	17 €
20/25	5005249	17 €
25/40	5005248	26 €
40/50	5002560	30 €
50/65	5005253	34 €



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