

Safety Valves TÜV approved

The **RIEGER Safety valve SH** prevents undue pressure excesses of 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 spring. Full stroke is already reached as soon as the pressure is 10 % higher than the set pressure and the overpressure is controlledly drained.
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 system weld ends suitable for orbital welding standard seals low maintenance costs change of seals possible within 5 minutes

Technical Data

Material	product contact optional non product contact	1.4404/AISI316L 1.4435/AISI316L 1.4301/AISI304
Seals	O-rings	EPDM, Viton, others upon request
Temperatures maximum	operating temperature sterilizing temperature *	130 °C* (266 °F) 150 °C* (300 °F) short-time (approx. 20 min)
Pressure	set pressure control air pressure	1,5 (22 psi) to 8 bar (116 psi) resp. 2 (29 psi) to 8 bar (116 psi) **see page 3** min. 6 bar (87 psi) – max. 10 bar (145 psi)
Surfaces	product contact optional non product contact	Ra <= 0,8 µm electro polished Ra <=1,6 µm
Connections	DIN 11850-R2 (DIN 11866 A) Clamp ferrules DIN 32676 Clamp ferrules Inch = Inch clamp ferrules adapted to DIN valve body	
Versions	pneumatically liftable manually operated with lever for cleaning pneumatically liftable combined with lever	



TÜV-approval for steam and gas

*dependent upon operating conditions



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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
DIN 10/15	0,15
DIN 15/20	0,15
DIN 20/25	0,15
DIN 25/40	0,08
DIN 40/50	0,08
DIN 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 bar (22 psi) to 8 bar (116 psi),
but for DIN 25/40 from 2 bar (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/EC

Zertifikat-Nr.: *Certificate No.:* **Z-IS-DDB-MAN-07-01-13086879-001**
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 herewith 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
TÜV-CERT-Zertifizierungsstelle für Druckgeräte

Mannheim, 05. Februar 2007
(Ort, Datum)
(Place, date)

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

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

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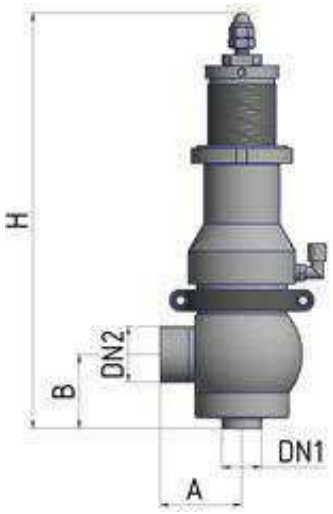
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D'ORGANISMES DE CONTROLE

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DGR Zertifikat Modul B.dot

Safety Valve SH1.01

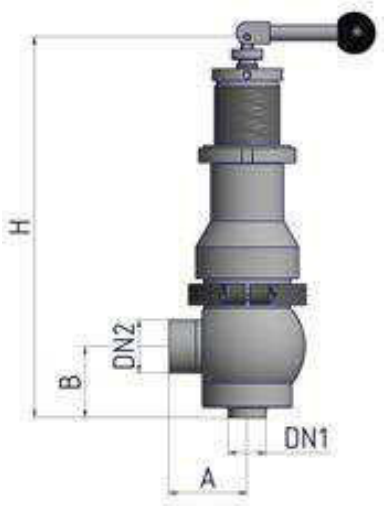
for cleaning pneumatically liftable



DIN	DN1 / DN2	A	B	H	Pmin	Pmax	kg
					bar		
10/15	13x1,5/19x1,5	40	40	215	1,5	8	2,3
15/20	19x1,5/32x1,5	45	45	222	1,5	8	2,4
20/25	23x1,5/29x1,5	50	50	265	1,5	8	2,6
25/40	29x1,5/41x1,5	60	55	304	2	8	5,6
40/50	41x1,5/53x1,5	80	60	358	1,5	8	7
50/65	53x1,5/70x2	100	70	387	1,5	8	9
Set range 1: from 1,5 bar resp. 2 bar to 2,9 bar							
Set range 2: from 3 bar to 8 bar							

Safety Valve SH4.01

for cleaning liftabe by lever



DIN	DN1 / DN2	A	B	H	Pmin	Pmax	kg
					bar		
10/15	13x1,5/19x1,5	40	40	215	1,5	8	2,4
15/20	19x1,5/23x1,5	45	45	222	1,5	8	2,5
20/25	23x1,5/29x1,5	50	50	265	1,5	8	2,7
25/40	29x1,5/41x1,5	60	55	304	2	8	5,6
40/50	41x1,5/53x1,5	80	60	358	1,5	8	7,1
50/65	53x1,5/70x2	100	70	387	1,5	8	9,1
Set range 1: from 1,5 bar resp. 2 bar to 2,9 bar							
Set range 2: from 3 bar to 8 bar							



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Safety Valve SH1.01

for cleaning pneumatically liftable– EPDM seals

DIN	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 €

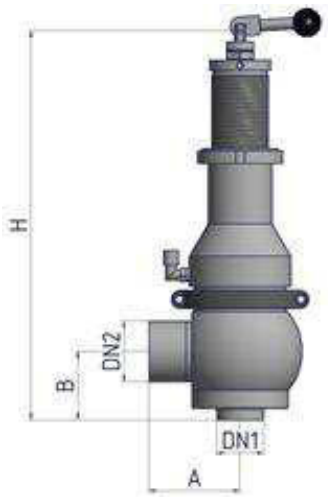
Safety Valve SH4.01

for cleaning liftable by lever– EPDM seals

DIN	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 Valve SH14.01

for cleaning pneumatically liftable and by lever



DIN	DN1 / DN2	A	B	H	Pmin	Pmax	kg
					bar		
10/15	13x1,5/19x1,5	40	40	215	1,5	8	2,4
15/20	19x1,5/32x1,5	45	45	222	1,5	8	2,5
20/25	23x1,5/29x1,5	50	50	265	1,5	8	2,7
25/40	29x1,5/41x1,5	60	55	304	2	8	5,7
40/50	41x1,5/53x1,5	80	60	358	1,5	8	7,1
50/65	53x1,5/70x2	100	70	387	1,5	8	9,1
	Set range 1: from 1,5 bar resp. 2 bar to 2,9 bar						
	Set range 2: from 3 bar to 8 bar						



Safety Valves TÜV approved

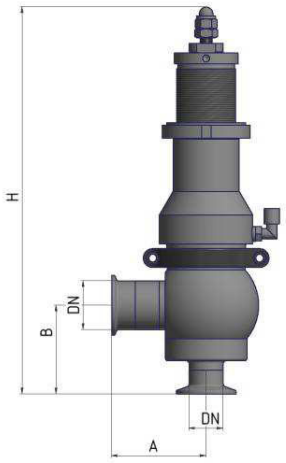
Safety Valve SH14.01

for cleaning pneumatically liftable and by lever – EPDM seals

DIN	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 €

Safety Valve SH1.01

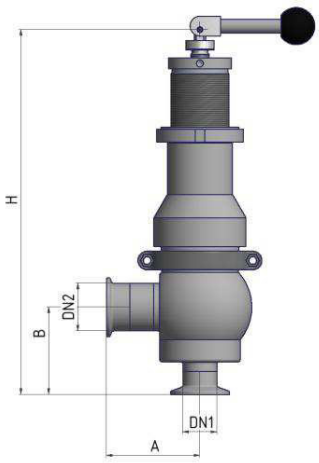
for cleaning pneumatically liftable– with clamp ferrules DIN 32676



DIN	Ø/Ø	A	B	H	Pmin	Pmax	kg
					bar		
10/15	34/34	58	58	233	1,5	8	2,4
15/20	34/34	63	63	240	1,5	8	2,5
20/25	34/50,5	71	68	265	1,5	8	2,7
25/40	50,5/50,5	81	76	334	2	8	5,7
40/50	50,5/64	100	90	380	1,5	8	7,1
50/65	64/91	120	100	408	1,5	8	9,1
Set range 1: from 1,5 bar resp. 2 bar to 2,9 bar							
Set range 2: from 3 bar to 8 bar							

Safety Valve SH4.01

for cleaning liftable by lever– wit clamp ferrules DIN 32676



DIN	Ø/Ø	A	B	H	Pmin	Pmax	kg
					bar		
10/15	34/34	58	58	233	1,5	8	2,5
15/20	34/34	63	63	240	1,5	8	2,6
20/25	34/50,5	71	68	265	1,5	8	2,8
25/40	50,5/50,5	81	76	334	2	8	5,7
40/50	50,5/64	100	90	380	1,5	8	7,2
50/65	64/91	120	100	408	1,5	8	9,2
Set range 1: from 1,5 bar resp. 2 bar to 2,9 bar							
Set range 2: from 3 bar to 8 bar							



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Safety Valve SH1.01

for cleaning pneumatically liftable– with clamp ferrules DIN 32676 – EPDM seals

DIN	Reference Number	Price
10/15	50001.1440.01.0102.32	894 €
15/20	50001.1440.01.0203.32	896 €
20/25	50001.1440.01.0304.32	899 €
25/40	50001.1440.01.0406.32	977 €
40/50	50001.1440.01.0607.32	1388 €
50/65	50001.1440.01.0708.32	1557 €

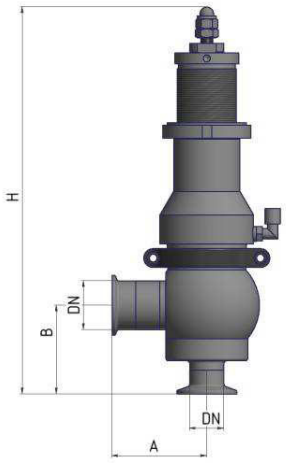
Safety Valve SH4.01

for cleaning liftable by lever– with clamp ferrules DIN 32676 – EPDM seals

DIN	Reference Number	Price
10/15	50002.1440.01.0102.32	956 €
15/20	50002.1440.01.0203.32	958 €
20/25	50002.1440.01.0304.32	967 €
25/40	50002.1440.01.0406.32	1042 €
40/50	50002.1440.01.0607.32	1453 €
50/65	50002.1440.01.0708.32	1629 €

Safety Valve SH1.01

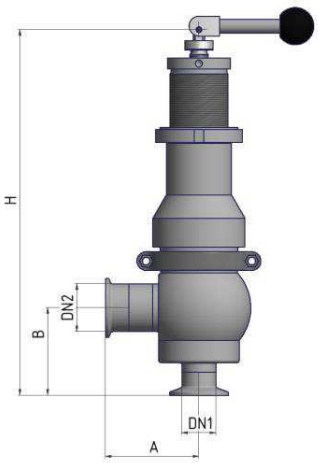
for cleaning pneumatically liftable– with Inch clamp ferrules



Inch	Ø/Ø	A	B	H	Pmin bar	Pmax	kg
1“/1 ½“	50,5/50,5	80	75	334	2	8	5,7
1 ½“/2“	50,5/64	100	80	380	1,5	8	7,2
2“/2 ½“	64/91	120	90	408	1,5	8	9,2
	Set range 1: from 1,5 bar resp. 2 bar to 2,9 bar						
	Set range 2: from 3 bar to 8 bar						

Safety Valve SH4.01

for cleaning liftable by lever– with Inch clamp ferrules



Inch	Ø/Ø	A	B	H	Pmin bar	Pmax	kg
1“/1 ½“	50,5/50,5	80	75	334	2	8	5,8
1 ½“/2“	50,5/64	100	80	380	1,5	8	7,3
2“/2 ½“	64/91	120	90	408	1,5	8	9,3
	Set range 1: from 1,5 bar resp. 2 bar to 2,9 bar						
	Set range 2: from 3 bar ferro 8 bar						



Safety Valves TÜV approved

Sicherheitsventil SH1.01

for cleaning pneumatically liftable– with Inch clamp ferrules – EPDM seals

Inch	Reference Number	Price
1“/1 ½“	50001.1440.01.2426.32	999 €
1 ½“/2“	50001.1440.01.2627.32	1411 €
2“/2 ½“	50001.1440.01.2728.32	1587 €

Safety Valve SH4.01

for cleaning liftable by lever– with Inch clamp ferrules – EPDM seals

Inch	Reference Number	Price
1“/1 ½“	50002.1440.01.2426.32	1064 €
1 ½“/2“	50002.1440.01.2627.32	1476 €
2“/2 ½“	50002.1440.01.2728.32	1659 €



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RIEGER

Wearing Sets

complete

	EPDM/NBR		Viton/NBR	
DIN	**Reference Number**	**Price**	**Reference Number**	**Price**
10/15	5005249	22 €	5005156	36 €
15/20	5005249	22 €	5005156	36 €
20/25	5005249	22 €	5005156	36 €
25/40	5005248	26 €	5005248	45 €
40/50	5002560	30 €	5004142	54 €
50/65	5002560	30 €	5004142	54 €
Inch	**Reference Number**	**Price**	**Reference Number**	**Price**
1“/1 ½“	5005248	26 €	5005248	45 €
1 ½“/2“	5002560	30 €	5004142	54 €
2“/2 ½“	5002560	30 €	5004142	54 €

Gasket Kits

product side – only O-rings

	EPDM		Viton	
DIN	**Reference Number**	**Price**	**Reference Number**	**Price**
10/15	5005131	17 €	5005267	31 €
15/20	5005131	17 €	5005267	31 €
20/25	5005131	17 €	5005267	31 €
25/40	5005107	18 €	5004143	37 €
40/50	5002122	19 €	5004141	43 €
50/65	5002122	19 €	5004141	43 €
Inch	**Reference Number**	**Price**	**Reference Number**	**Price**
1“/1 ½“	5005107	18 €	5004143	37 €
1 ½“/2“	5002122	19 €	5004141	43 €
2“/2 ½“	5002122	19 €	5004141	43 €