

Weyn-Lauwers N.V.

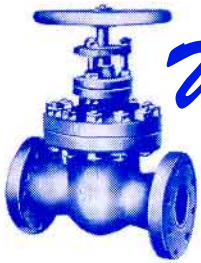
Industriepark-Noord 12
B - 9100 SINT-NIKLAAS

Tel. : 00 32 (0)3 776.34.13
Fax : 00 32 (0)3 778.09.52
weynlauwers@weynlauwers.be
www.weynlauwers.be

SAFETY VALVE fig 905



fig 905 inox veiligheidsklep
3/8" - 2" bsp MM
huis : inox 316
teflon zitting
temp. : -10°C/+200°C
insteldruk : 0,5 - 12 bar (elke 0,5 bar)



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CHARACTERISTICS

The G type safety valves are dedicated to protect the equipment from potential overpressure. They are automatic and close when the pressure conditions are back to normal. It is a spring type safety valve with a ducted exhaust design and it is available in brass or stainless steel construction. The standard version is delivered sealed with FKM tightness. It complies with the PN 40 pressure rating standards and is certified by a TÜV approval. It can be used on compatible gases and liquids. Inlet and outlet attachments are male BSP type. Setting certificate and information folder, in compliance with the 1998 decree about the safety valves monitoring, are available on request.



AVAILABLE ITEMS

Type	G10	G14	G20	G25	G32	G40
Brass	x	x	x	x	x	x
Stainless steel	x	x	x	x	x	x
TÜV #	SV_913	SV_912	SV_913	SV_913	SV_913	SV_913
PN	40	40	40	40	40	40
Orifice (mm)	10	13.5	20	25	32	40
Surface cm ²	0.785	1.43	3.14	4.906	8.038	12.566
Lift (mm)	5	6	6	6	9	12
Min. Pressure setting (bar)	0.5	0.5	0.5	0.5	0.5	0.5
Max. Pressure setting (bar)	25	40	40	20	12.2	14
Inlet connection (brass)		G 1/2" M or G 3/4" M or G 1" M*	G 1" M or G 1" 1/4 M*	G 1" 1/4 M or G 1" 1/2 M*	G 1" 1/2 M or G 2" M*	
Inlet connection (SS)	G 1/2" M or G 3/4" M*	G 1/2" M or G 3/4" M or G 1" M*	G 1" M or G 1" 1/4 M*	G 1" 1/4 M or G 1" 1/2 M*		G 1" 1/2 M or G 2" M*
Outlet connection	G 1" M	G 1" M	G 1" 1/4 M	G 1" 1/2 M	G 1" 1/2 M	G 2" M

*Standard models available

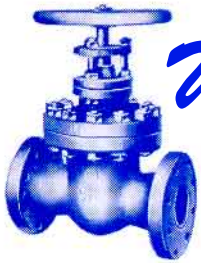
CONSTRUCTION STANDARDS

TÜV approval
EC0044 certification, category IV (modules B+D)
Maximum flow rate at setting pressure + 10 %
Closing pressure: setting pressure -10 %

LIMITS OF USE

Maximum body pressure: PN 40
Maximum temperature of materials:
(Read taking into account the working pressure at operating temperature)

	Brass		Stainless steel	
	Min. temp.	Max. temp.	Min. temp.	Max. temp.
Bearing				
NBR	-10 °C	+100 °C	-10 °C	+100 °C
EPDM	-50 °C	+150 °C	-50 °C	+150 °C
FKM	-20 °C	+200 °C	-20 °C	+200 °C
Silicone	-50 °C	+200 °C	-60 °C	+200 °C
PTFE	-50 °C	+180 °C	-100 °C	+180 °C
Metal	-50 °C	+200 °C	-195 °C	+450 °C



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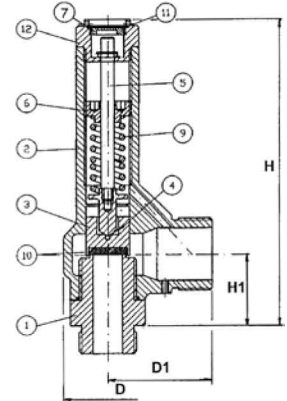
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CONSTRUCTION

#	Item	Brass	Stainless steel
1	Body	CW614N / 2.0372 Brass	AISI 316 / 1.4401
2	Bonnet	CW614N / 2.0372 Brass	AISI 316 / 1.4401
3	Clack	CW614N / 2.0372 Brass	AISI 316 / 1.4401
4	Needle	CW614N / 2.0372 Brass	AISI 316 / 1.4401
5	Stem	CW614N / 2.0372 Brass	AISI 316 / 1.4401
6	Adjustment screw	CW614N / 2.0372 Brass	AISI 316 / 1.4401
7	Cap	CW614N / 2.0372 Brass	AISI 316 / 1.4401
8	Lever	AISI 316 / 1.4401	AISI 316 / 1.4401
9	Spring	C 72 UNI 3823	AISI 302
10	Seat	NBR/EPDM/Viton/Silicone/Met.	NBR/EPDM/Viton/Silicone/Met.
11	Plate	CW614N / 2.0372 Brass	AISI 316 / 1.4401
12	Testing device	CW614N / 2.0372 Brass	AISI 316 / 1.4401
13	Pin	CW614N / 2.0372 Brass	AISI 316 / 1.4401



FLOW RATE COEFFICIENTS - (TÜV)

Type	Gas pressure < 3 bar	Gas pressure > 3 bar
G10	0.75	0.77
G14	0.81	0.86
G20	0.67	0.79
G25	0.59	0.59
G32	0.52	0.52
G40	0.58	0.64

DIMENSIONS (mm)

Type	G10	G14	G20	G25	G32	G40
H - G type	144	144	240	240	240	294
H - G/M type	152	152	240	240	240	294
D	41	41	71	71	71	102
A	49	49	71	71	71	79
B	33	33	46	46	46	53

INSTALLATION

The valve has to be installed as close as possible to the device to protect. It has to be installed in a vertical position. There should be no valve between the safety valve and the device to protect. No foreign body should block the safety valve discharge openings. The exhaust has to be connected to pipework without any back-pressure and discharge in a safe place. The safety valve should not support the exhaust pipework. The safety valve mounting and maintenance have to be carried out in an appropriate way and according to the information sheet provided with the device.

PRE-SET, MATERIAL AND TEST CERTIFICATE

Standard pre-set and conformity certification according to EN 10 204 2.2 with series number marked on the safety valve.

FLOW RATE FOR LIQUIDS

Please use the following formula:

$$Q \text{ (kg / h)} = 0.9 \times K1 \times \text{ROOT} ((P1-P2) \cdot Y \cdot 1000) \times A \times 100 / 0.621$$

K1	Flow rate for a 10% overpressure	0,38
P1	Design pressure	Bar
P2	Backpressure	Bar
A	Orifice surface	cm ²
Y	Specific weight of the liquid at P1	Kg/dm ³

