

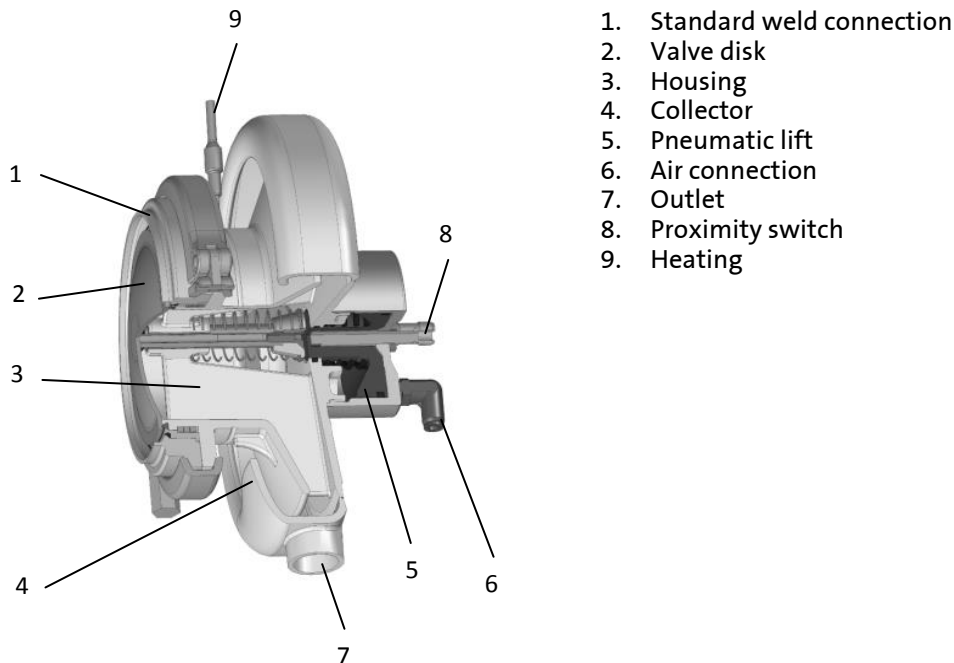
INFORMATION

A central issue in beverage production is the protection of expensive equipment in the production process. Often it is necessary to protect containers and pipes against undue vacuum. This is a special application for the vacuum valve. It automatically equalizes vacuum occurrences, which serves to protect against uncontrolled draining. Changes in volume due to physical or chemical processes (e. g. during hot rinsing) have not been taken into account for the design.

EVOGUARD vacuum valves provide design features analogous to seat valves, for a high performance during the day-to-day operation. The design of the product contacting area ensures optimal cleaning conditions. The valve is installed horizontally, therefore dirt deposits on the outer surface cannot enter the product room. In addition, the Hygienic Design requirements are optimally fulfilled.

Design features of modular vacuum valves

- Standard weld connection
- Horizontal installation
- Optimum cleaning conditions – no dead space
- Defined outlet via collector – controlled liquid discharge
- Dirt deposits are prevented from entering the tank from the outside owing to the horizontal installation
- Design versions:
 - non-liftable, without collector
 - liftable, with collector, for opening the valve during cleaning
- Options:
 - heating
 - proximity switch



TECHNICAL DATA

Pressures

Relief pressure	-0.044 ± 0.015 psi (-3 ± 1 mbar)
Product pressure	87 psi (6 bar)
Control air pressure	min. 87 psi (6 bar) - max. 115 psi (8 bar)

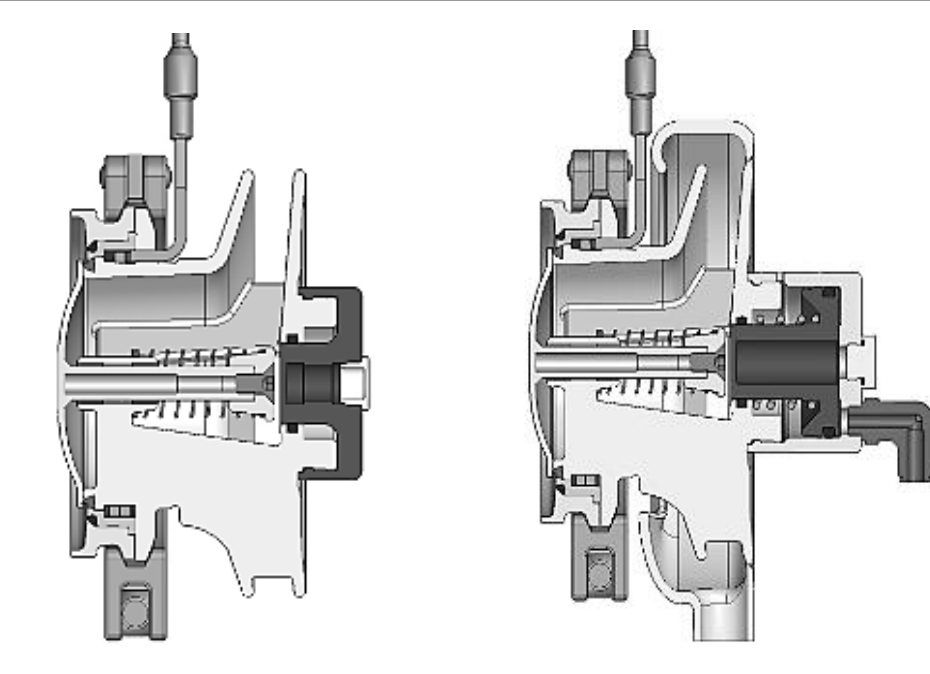
Material

With product contact	1.4404 / AISI 316L
Without product contact	1.4301 (AISI 304) / 1.4307 (AISI 304 L) / 1.4308
Seal	VMQ / EPDM Further materials available upon request

Surface

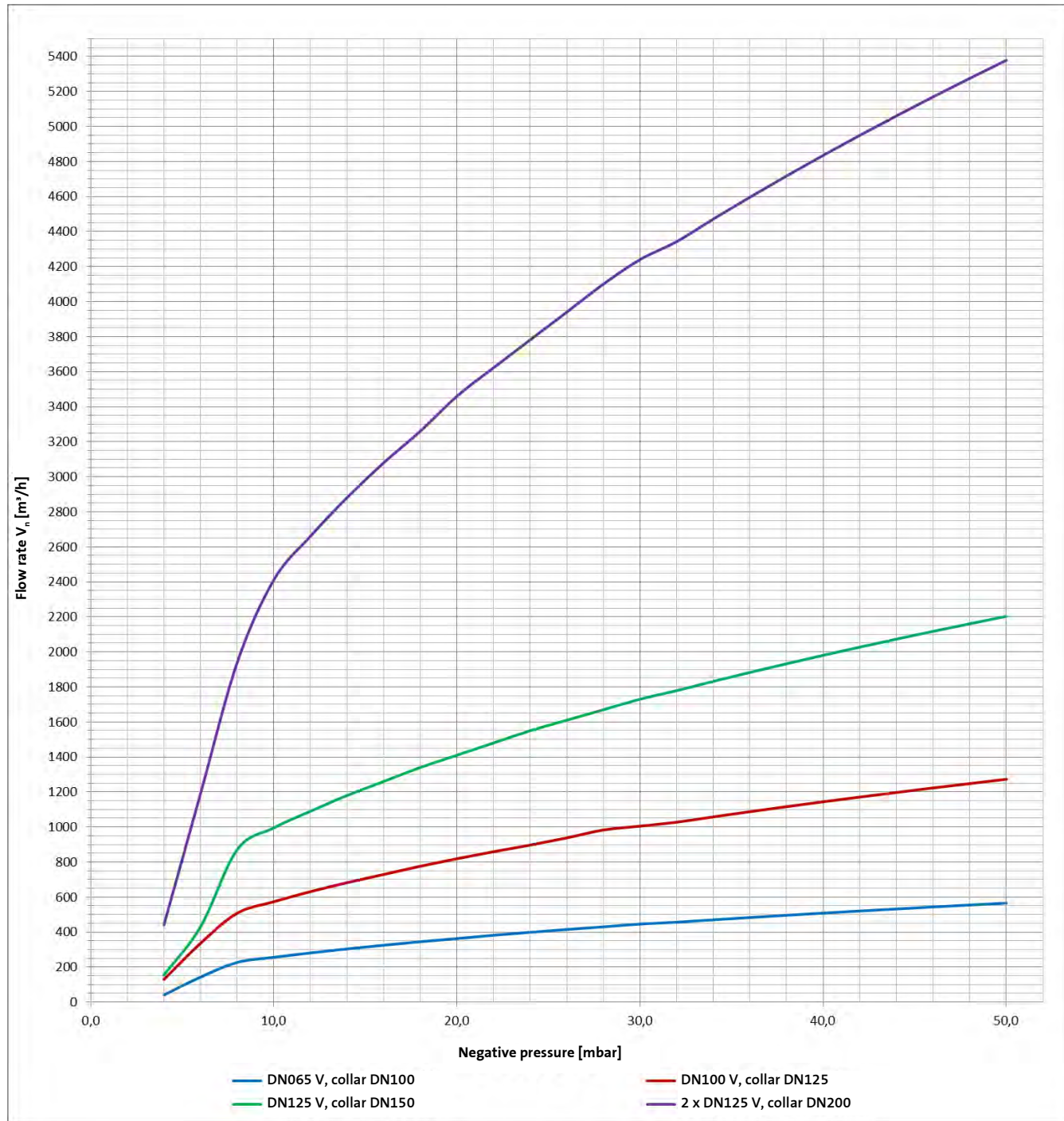
With product contact	Ra ≤ 0.8 μ
Without product contact	Ra ≤ 6.3 μ

Designs

Variants 	Vacuum valve V without collector Vacuum valve VL with collector pneumatically liftable
Additional equipment	Proximity switch M12x1 Heating

According to legal requirements
EU Machinery Directive 2006/42/EC

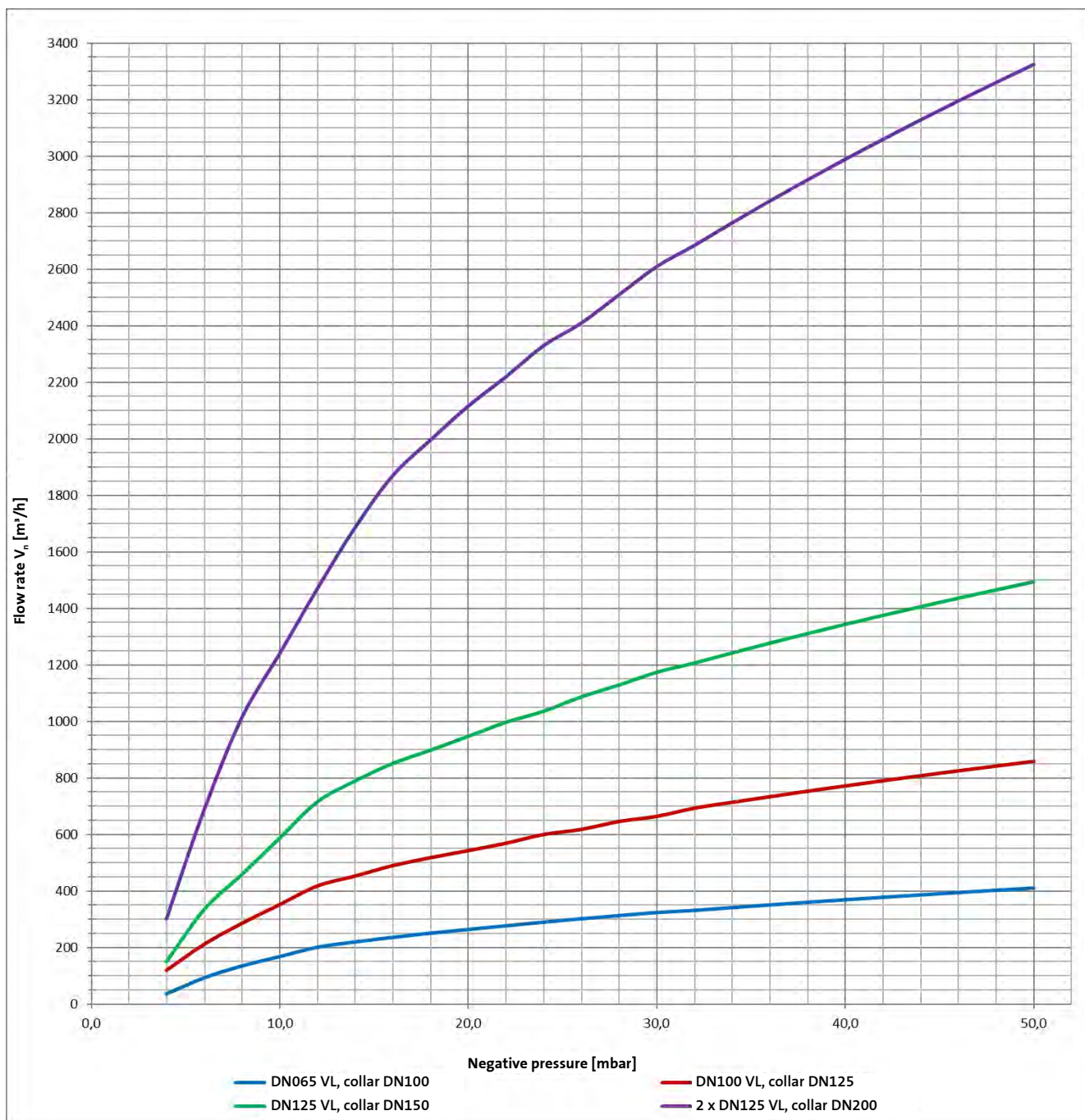
Flow rate values for vacuum valve V without collector



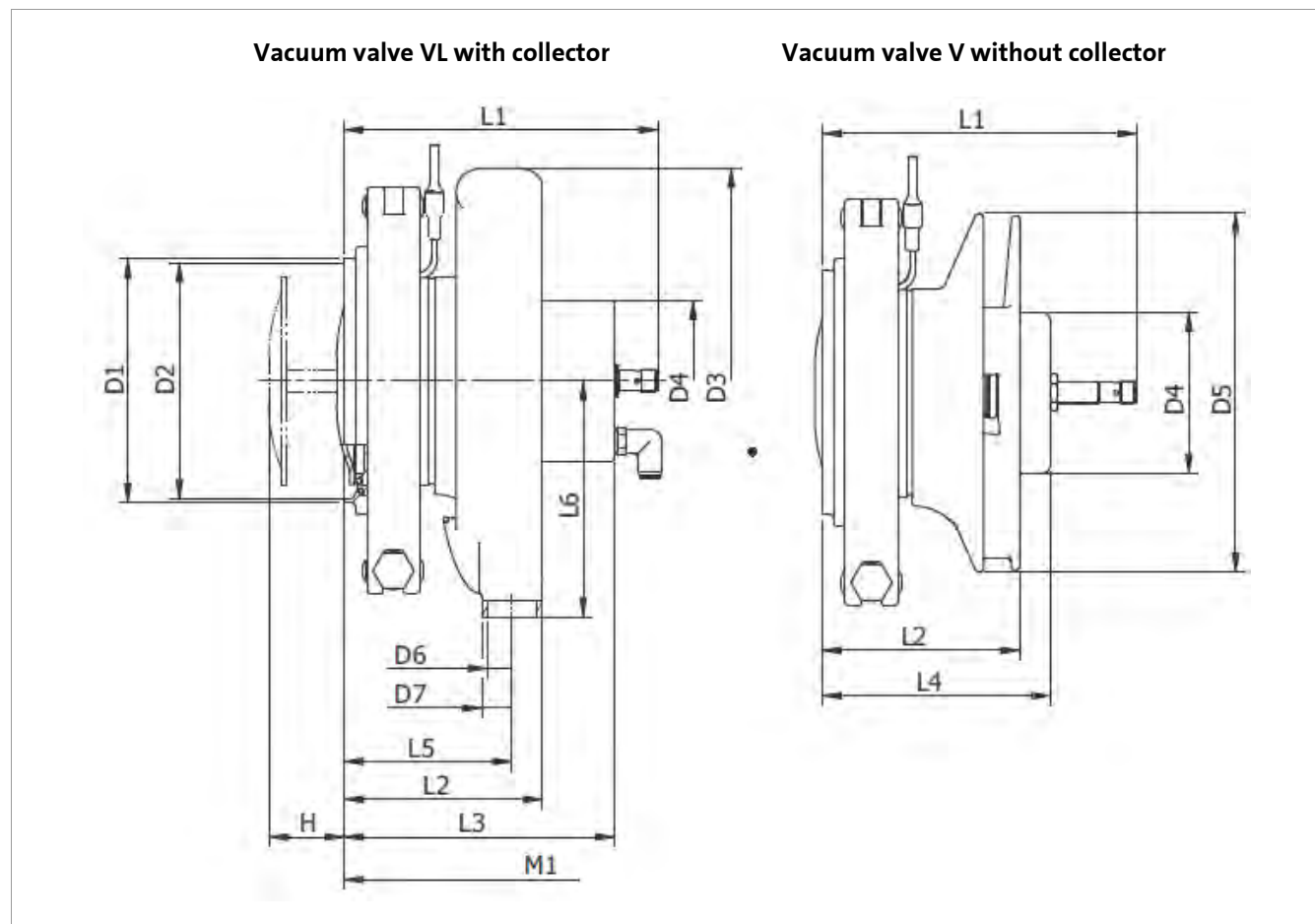
5 Vacuum Valve V



Flow rate values for vacuum valve VL with collector



VACUUM VALVE V



Dimensions

DN	D1 mm	D2 mm	D3 mm	D4 mm	D5 mm	D6 mm	D7 mm	L1 mm	L2 mm	L3 mm	L4 mm	L5 mm	L6 mm	M1 mm	H mm
65	104	100	156	58	128	16	21	138	74	111	91	63	90	165	27
100	129	125	225	85	190	26	32	167	106	144	121	89	125	200	40
100	154	150	225	85	190	26	32	167	106	144	121	89	125	200	40
125	154	150	272	85	222	38	44	200	140	177	154	118	150	235	63
125	204	200	272	85	222	38	44	200	140	177	154	118	150	235	63

Weight

DN	V kg	VL kg
65	2,7	3,8
100	7,2	9,4
125	7,2	9,4

Seal material: E: VMQ / EPDM
F: VMQ / FKM
H: VMQ / HNBR

Proximity switch: I (with proximity switch)
O (without proximity switch)

With heating cartridge

Example for Description:

Vacuum Valve V DN100 E O H

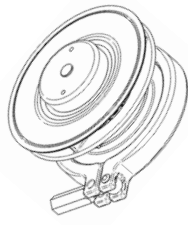
Diameter

Type: V Vacuum valve
VL Vacuum valve with collector

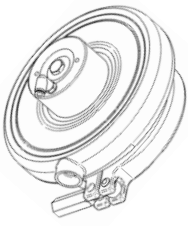
VACUUM VALVE V

Without weld-on ring

V without collector
1.4404 / AISI 316L

	DN	- VMQ / EPDM	- VMQ / HNBR	- VMQ / FKM
		Material no.	Material no.	Material no.
	25			
	40			
	50			
	65	0904520912		
	80			
	100	0904487921		
	125	0904607160		
	150			

VL liftable with collector
1.4404 / AISI 316L

	DN	- VMQ / EPDM	- VMQ / HNBR	- VMQ / FKM
		Material no.	Material no.	Material no.
	25			
	40			
	50			
	65	0904520288		
	80			
	100	0904487922		
	125	0904607162		
	150			

Weld-on ring V
1.4404 / AISI 316L

	DN Vacuum valve	DN Welded connection	Material no.
	65	100	0904320040
	100	125	0903703915
	100	150	0903811309
	125	150	0904126484
	125	200	0904153286

SPARE PARTS VACUUM VALVE V

Seal kit V without collector

	DN	VMQ / EPDM	VMQ / HNBR	VMQ / FKM
		Material no.	Material no.	Material no.
	40			
	50			
	65	0904927781		
	80			
	100	0904927782		
	125	0904927784		
	150			

Seal kit VL liftable with collector

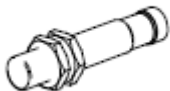
	DN	VMQ / EPDM	VMQ / HNBR	VMQ / FKM
		Material no.	Material no.	Material no.
	40			
	50			
	65	0904926955		
	80			
	100	0904927657		
	125	0904927780		
	150			

Bearing set

	DN	
		Material no.
	25	
	40	
	50	
	65	0902161986
	80	
	100	0129900062
	125	0129900062
	150	

ADDITIONAL EQUIPMENT VACUUM VALVE V

Proximity switch M12x1

	DN	Material no.
	25	0902261673
	40	
	50	
	65	
	80	
	100	
	125	
	150	

Heating cartridge RP, coiled

	DN	24 V DC self-limiting Material no.
	40	
	50	
	65	0904427591
	80	
	100	0904386062
	125	0904391185
	150	

