

Double Seal Valves

RIEGER Double seal valves are used for reliable separation of liquid products from cleaning agents in pipes. They are the link between leakage butterfly valve and mix proof valve. Both seats are directly combined like in the leakage butterfly valve. But it is a right angel valve with ball body which complies with the hygienic requirements. The leakage space is situated between the separating gaskets. The leakage fluid is drained off through the leakage valve. Optional, also a rinsing CIP valve is available. The design of the one-piece solid and dead space free valve body guarantees optimal CIP/CIP cleaning possibilities. The valves are applied in plants of breweries, beverages, dairies and food industries.

Your benefits

Design	one-piece solid valve body no dead space safe CIP/SIP cleaning
Absolute product safety	radial sealing of valve disks safe separation of products leakage is safely drained off
Serviceable maintenance	change of seals without special tools valve insert completely removable upwards
Efficiency	sandard O-rings few seals low spare part costs



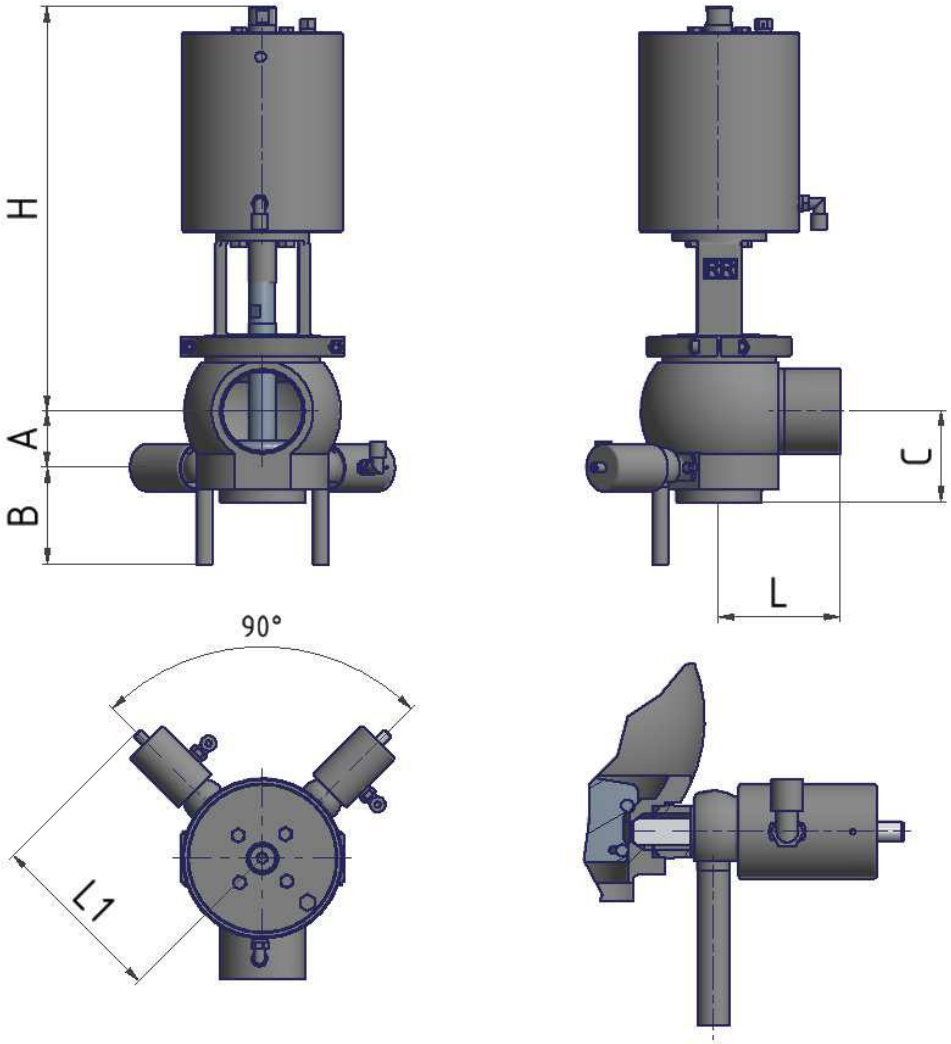
Technical Data

Material	in product contact optional non product contact	1.4404/AISI316L 1.4435/AISI316L 1.4301/AISI304
Seals	O-rings	EPDM; Viton and others upon request
Temperatures maximum	operating temperature sterilization temperature	up to 130 °C* up to 150 °C* short-time (approx. 20 min)
Operating pressure	closing pressure control air pressure	max. 6 bar min 6 bar - max. 10 bar
Surfaces	in product contact optional non product contact	Ra <= 0,8 µm electro polished, other surfaces upon request Ra <=1,6 µm
Connections Standard pipe classes	DIN 11850-R2 (DIN 11866 A) O.D. tube (DIN 11866 C)	

*depending on operating conditions

D31.01.100 with 2 CIP valves

pneumatic – air to open-spring to close NC – with straight CIP tubes





Double Seal Valves

DD31.01.100 with 2 CIP valves

pneumatic – air to open-spring to close NC

DIN	Pipe	A	B	C	KV value
40	41 x 1,5	36	80	64	32
50	53 x 1,5	40	80	64	55
65	70 x 2	46,5	80	74,3	95
80	85 x 2	55,5	80	83,3	143
100	104 x 2	63	80	91	218

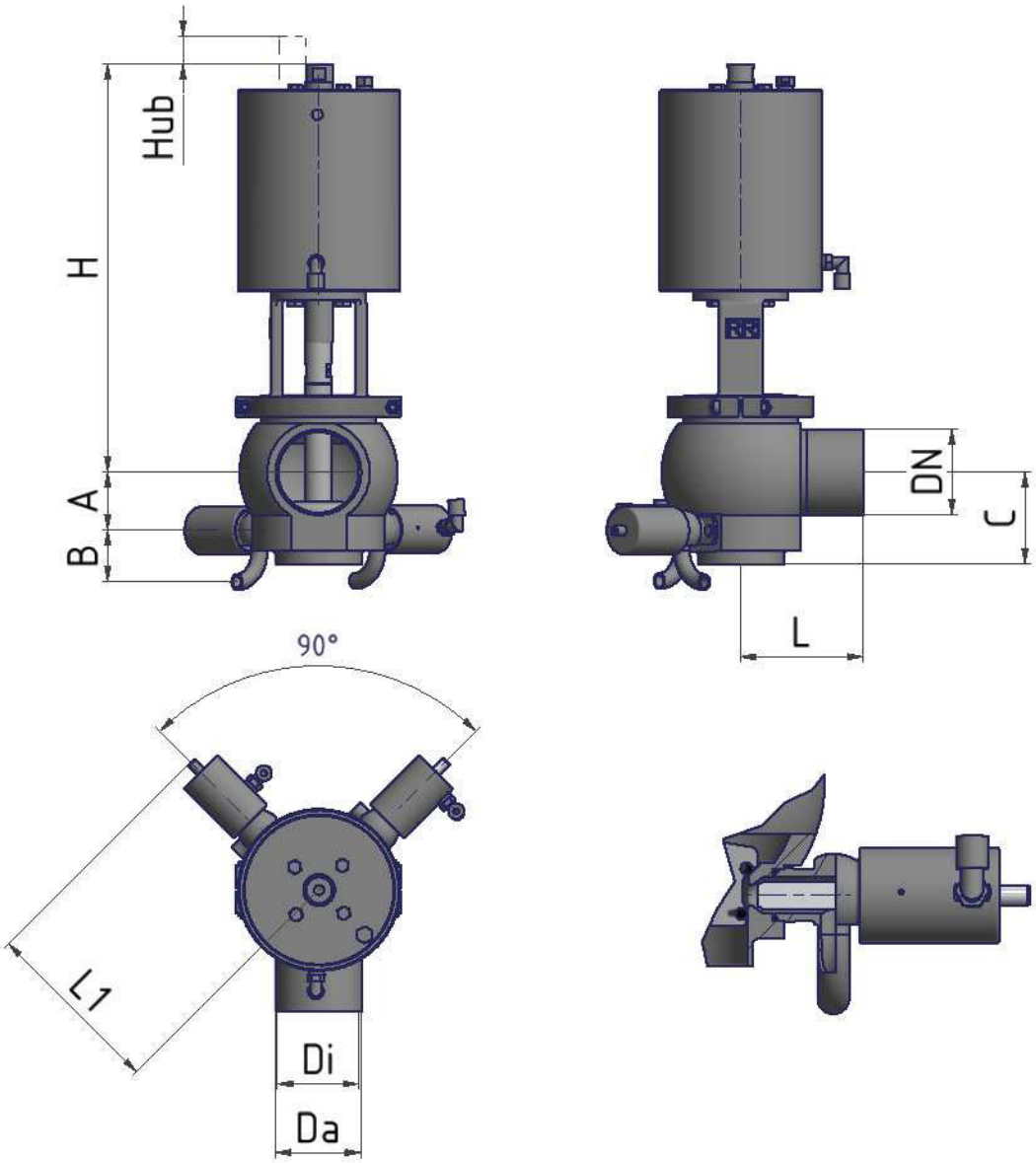
DIN	H	L	L1	L1	Stroke	kg
40	260	70	137,5	140	30	9,5
50	300	80	138,5	141	30	11,8
65	335	100	146,5	149	30	17,3
80	412	125	154,5	157	49	25,5
100	422	150	163,5	166	49	36,2

Dimensions for valves in Inch upon request.

In case of order you get a 3D step file for your construction.

DD31.01.200 with 2 CIP valves

pneumatic – air to open-spring to close NC – with bent CIP tubes



DD31.01.200 with 2 CIP valves

pneumatic – air to open-spring to close NC – with bent CIP tubes

DIN	Pipe	A	B	C	KV values
40	41 x 1,5	36	43	64	32
50	53 x 1,5	40	43	64	55
65	70 x 2	46,5	43	74,3	95
80	85 x 2	55,5	43	83,3	143
100	104 x 2	63	43	91	218

DIN	H	L	L1	Stroke	kg
40	260	70	140	30	9,5
50	300	80	141	30	11,8
65	335	100	149	30	17,3
80	412	125	157	49	25,5
100	422	150	166	49	36,2

Dimensions for valves in Inch upon request.

In case of order you get a 3D step file for your construction.



Double Seal Valves

Double seal right angle valve DD31.01 DIN

	2 CIP valves = type 100 1 x air to open-spring to close NC 1 x spring to open-air to close NO		1 CIP valve = type 150 1 x spring to open-air to close NO	
DIN	**Reference number**	**Price**	**Reference number**	**Price**
40	20010.0500.01.0006.32	1558 €	20010.0200.01.0006.32	1483 €
50	20010.0500.01.0007.32	1585 €	20010.0200.01.0007.32	1510 €
65	20010.0500.01.0008.32	1851 €	20010.0200.01.0008.32	1776 €
80	20010.0500.01.0009.32	2172 €	20010.0200.01.0009.32	2097 €
100	20010.0500.01.0010.32	2476 €	20010.0200.01.0010.32	2401 €
	with straight CIP tubes			
	CIP valves in 45° position			

Double seal right angle valve DD31.01 DIN

	2 CIP valves = type 200 1 x air to open-spring to close NC 1 x spring to open-air to close NO		1 CIP valve = type 500 1 x spring to open-air to close NC	
DIN	**Reference number**	**Price**	**Reference number**	**Price**
40	20110.0500.01.0006.32	1558 €	20110.0200.01.0006.32	1483 €
50	20110.0500.01.0007.32	1585 €	20110.0200.01.0007.32	1510 €
65	20110.0500.01.0008.32	1851 €	20110.0200.01.0008.32	1776 €
80	20110.0500.01.0009.32	2172 €	20110.0200.01.0009.32	2097 €
100	20110.0500.01.0010.32	2476 €	20110.0200.01.0010.32	2401 €
	with bent CIP tubes			
	CIP valves in 45° position			



Double Seal Valves

Double seal double right angle valve DD31.11 DIN

	2 CIP valves = type 100 1 x air to open-spring to close NC 1 x spring to open-air to close NO		1 CIP valve = type 150 1 x spring to open-air to close NO	
DIN	**Reference number**	**Price**	**Reference number**	**Price**
40	20010.0501.01.0006.32	1595 €	20010.0201.01.0006.32	1520 €
50	20010.0501.01.0007.32	1622 €	20010.0201.01.0007.32	1547 €
65	20010.0501.01.0008.32	1893 €	20010.0201.01.0008.32	1818 €
80	20010.0501.01.0009.32	2250 €	20010.0201.01.0009.32	2175 €
100	20010.0501.01.0010.32	2541 €	20010.0201.01.0010.32	2466 €

with straight CIP tubes

CIP valves in 45° position

Double seal double right angle valve DD31.11 DIN

	2 CIP valves = type 200 1 x air to open-spring to close NC 1 x spring to open-air to close NO		1 CIP valve = type 500 1 x spring to open-air to close NO	
DIN	**Reference number**	**Price**	**Reference number**	**Price**
40	20110.0501.01.0006.32	1595 €	20110.0201.01.0006.32	1520 €
50	20110.0501.01.0007.32	1622 €	20110.0201.01.0007.32	1547 €
65	20110.0501.01.0008.32	1893 €	20110.0201.01.0008.32	1818 €
80	20110.0501.01.0009.32	2250 €	20110.0201.01.0009.32	2175 €
100	20110.0501.01.0010.32	2541 €	20110.0201.01.0010.32	2466 €

with bent CIP tubes

CIP valves in 45° position



Double Seal Valves

Double seal right angle valve DD31.01 Inch

	2 CIP valves = type 100 1 x air to open-spring to close NC 1 x spring to open-air to close NO		1 CIP valve = type 150 1 x spring to open-air to close NO	
Inch	**Reference number**	**Price**	**Reference number**	**Price**
1 ½“	20010.0500.01.0026.32	1870 €	20010.0200.01.0026.32	1777 €
2“	20010.0500.01.0027.32	1902 €	20010.0200.01.0027.32	1812 €
2 ½“	20010.0500.01.0028.32	2221 €	20010.0200.01.0028.32	2131 €
3“	20010.0500.01.0029.32	2606 €	20010.0200.01.0029.32	2516 €
4“	20010.0500.01.0030.32	2971 €	20010.0200.01.0030.32	2881 €
	with <u>straight</u> CIP tubes			
	CIP valves in 45° position			

Double seal right angle valve DD31.01 Inch

	2 CIP valves = type 200 1 x air to open-spring to close NC 1 x spring to open-air to close NO		1 CIP valve = type 500 1 x spring to open-air to close NO	
Inch	**Reference number**	**Price**	**Reference number**	**Price**
1 ½”	20110.0500.01.0026.32	1870 €	20110.0200.01.0026.32	1777 €
2”	20110.0500.01.0027.32	1902 €	20110.0200.01.0027.32	1812 €
2 ½“	20110.0500.01.0028.32	2221 €	20110.0200.01.0028.32	2131 €
3“	20110.0500.01.0029.32	2606 €	20110.0200.01.0029.32	2516 €
4“	20110.0500.01.0030.32	2971 €	20110.0200.01.0030.32	2881 €
	with <u>bent</u> CIP tubes			
	CIP valves in 45° position			



Double Seal Valves

Double seal double right angle valve DD31.11 Inch

	2 CIP valves = type 100 1 x air to open-spring to close NC 1 x spring to open-air to close NO		1 CIP valve = type 150 1 x spring to open-air to close NO	
Inch	**Reference number**	**Price**	**Reference number**	**Price**
1 ½“	20010.0501.01.0026.32	1914 €	20010.0201.01.0026.32	1824 €
2“	20010.0501.01.0027.32	1946 €	20010.0201.01.0027.32	1856 €
2 ½“	20010.0501.01.0028.32	2272 €	20010.0201.01.0028.32	2182 €
3“	20010.0501.01.0029.32	2700 €	20010.0201.01.0029.32	2610 €
4“	20010.0501.01.0030.32	3049 €	20010.0201.01.0030.32	2959 €

with straight CIP tubes

CIP valves in 45° position

Double seal double right angle valve DD31.11 Inch

	2 CIP valves = type 200 1 x air to open-spring to close NC 1 x spring to open-air to close NO		1 CIP valve = type 500 1 x spring to open-air to close NO	
Inch	**Reference number**	**Price**	**Reference number**	**Price**
1 ½”	20110.0501.01.0026.32	1914 €	20110.0201.01.0026.32	1824 €
2”	20110.0501.01.0027.32	1946 €	20110.0201.01.0027.32	1856 €
2 ½“	20110.0501.01.0028.32	2272 €	20110.0201.01.0028.32	2182 €
3“	20110.0501.01.0029.32	2700 €	20110.0201.01.0029.32	2610 €
4“	20110.0501.01.0030.32	3049 €	20110.0201.01.0030.32	2959 €

with bent CIP tubes

CIP valves in 45° position



Double Seal Valves

RIEGER Double seal valves N4 piggable guarantee reliable protection for your product, as they completely separate non-compatible liquids. They have been proven in plants of the beverage and brewery industries, as well as of food and dairy industries.
The design of the one-piece solid valve body and the two radial seals of both valve seats together with the balanced valve disk allow completely safe CIP/SIP cleaning and so guarantee extremely high safety for your products.

Your benefits

Design	one-part valve body made of solid bar no weld torsion in product space only **3 seals** safe CIP/SIP cleaning
Absolute product safety	radial sealing of both valve seats balanced valve disk easy cleaning by lifting of both valve seats in both directions
Serviceable maintenance	exchange of gaskets without special tools low need of control air pressure valve insert completely removable upwards
Efficiency	Standard O-rings Standard actuator with 2 lift functions few gaskets minimal maintenance costs **piggable**



Valve under utility model status!

also available in 3-A version
see page 16 and 17

53-06

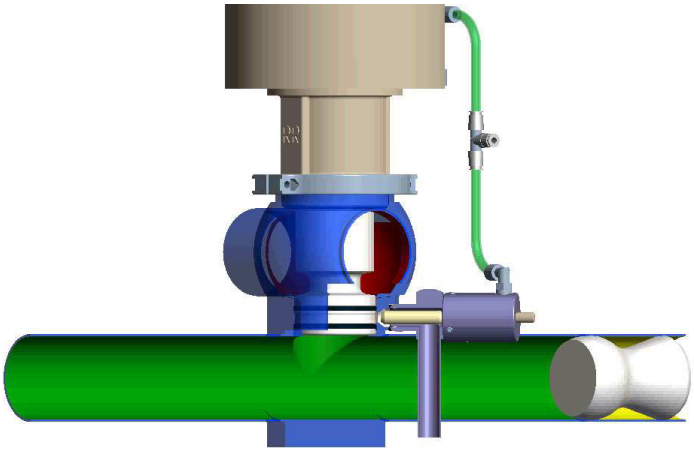
Technical Data

Material	in product contact non product contact	1.4404/AISI316L 1.4435/AISI316L 1.4301/AISI304
Seals	EPDM and PEEK	other materials upon request e.g. Viton
Temperatures maximum	operating temperature sterilization temperature	up to130 °C* up to 150 °C* short-time (approx. 20 min)
Operating pressure	closing pressure in upper line in lower pigging line control air pressure **water hammer safe**	 6 bar maximum see dimensional sheet min. 6 bar - max. 10 bar **up to 30 bar**
Surfaces	product contact optional non product contact	Ra <= 0,8 µm electro polished, other surfaces upon request Ra <=1,6 µm

*dependent on operating conditions

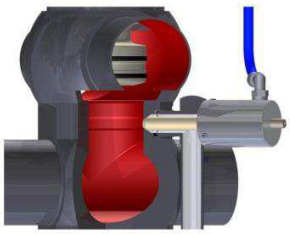
Double Seal Valves



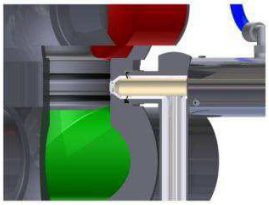


- maximum product efficiency
- low waste water costs and environmental burden
- reduced cleaning periods and costs
- minimization of cleaning water consumption
- minimization of cleaning agent consumption





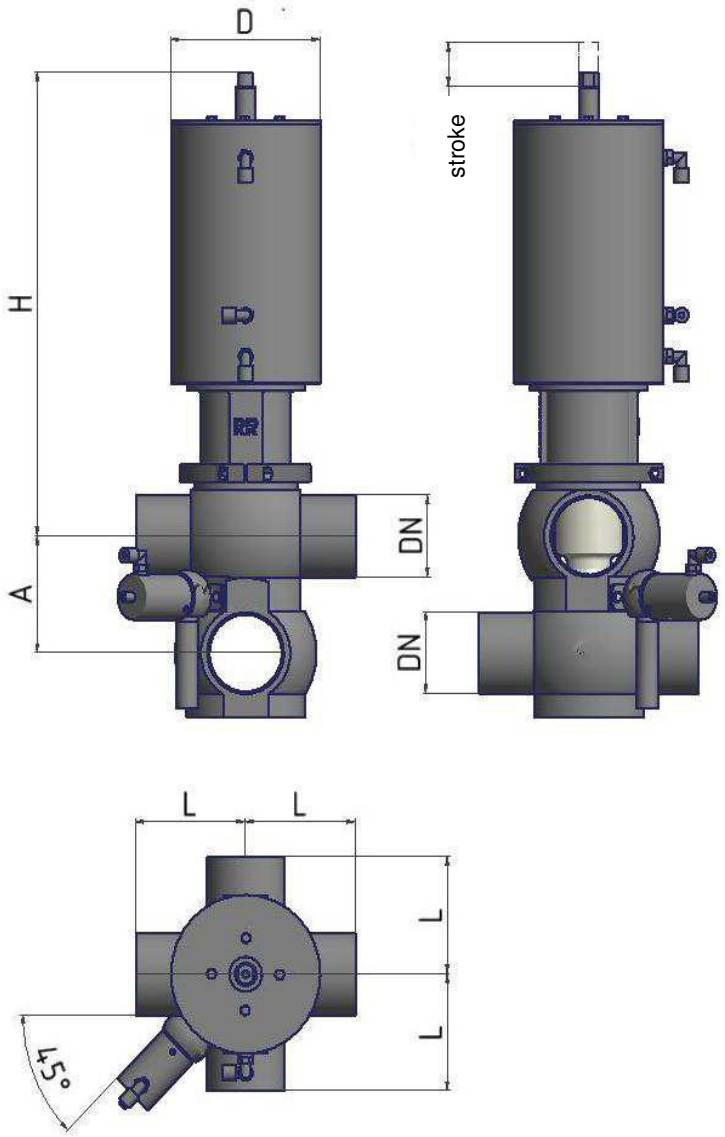




switching between
main and CIP valve

Double seal valve N4 – piggable - DIN

pneumatic – air to open-spring to close NC



DIN	Pipe	A	L	H	D	Stroke	max. bar in pigging line	kg
40	41 x 1,5	72	100	352	110	42	13	
50	53 x 1,5	84	100	358	110	42	8,5	25
65	70 x 2	100	100	397	136	45	9	26
80	85 x 2	115	125	440	174	46	10	39
100	104 x 2	134	150	450	174	46	7	

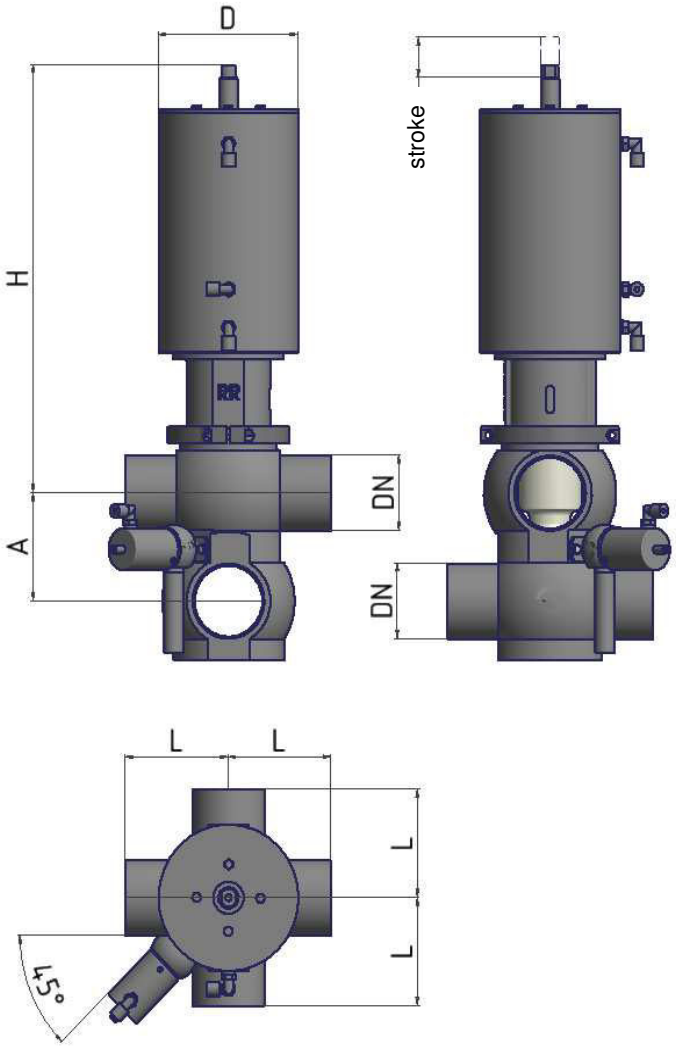
Double seal valve N4 – piggable - DIN

pneumatic – air to open-spring to close NC

	Type N4.03 - A-C-D		Type N4.04 - A-B-C-D	
DIN	**Reference number**	**Price**	**Reference number**	**Price**
40	34200.1300.01.0606.32	2406 €	34200.1400.01.0606.32	2473 €
50	34200.1300.01.0707.32	2447 €	34200.1400.01.0707.32	2524 €
65	34200.1300.01.0808.32	2905 €	34200.1400.01.0808.32	2982 €
80	34200.1300.01.0909.32	3446 €	34200.1400.01.0909.32	3518 €
100	34200.1300.01.1010.32	4462 €	34200.1400.01.1010.32	4654 €
125	34200.1300.01.1111.32	upon	34200.1400.01.1111.32	upon
150	34200.1300.01.1212.32	request	34200.1400.01.1212.32	request

Double seal valve N4 – piggable - Inch 3-A standard 53-06

pneumatic – air to open-spring to close NC



Inch	Pipe	A	L	H	D	Stroke	max. bar	kg
1 1/2"	38,1 x 1,65	69	100	352	110	42	13	
2"	50,8 x 1,65	84	100	358	110	42	8,5	25
2 1/2"	63,5 x 1,65	93	100	394	136	45	9	26
3"	76,2 x 1,65	107	125	436	174	46	10	39
4"	101,6 x 2,11	132	150	450	174	46	7	

Double seal valve N4 – piggable - Inch 3-A standard 53-06

pneumatic – air to open-spring to close NC

	Typ N4.03 - A-C-D		Typ N4.04 - A-B-C-D	
Inch	**Reference number**	**Price**	**Reference number**	**Price**
1 ½”	34200.1300.01.2626.32	2406 €	34200.1400.01.2626.32	2473 €
2“	34200.1300.01.2727.32	2447 €	34200.1400.01.2727.32	2524 €
2 ½“	34200.1300.01.2828.32	2905 €	34200.1400.01.2828.32	2982 €
3“	34200.1300.01.2929.32	3446 €	34200.1400.01.2929.32	3518 €
4“	34200.1300.01.3030.32	4462 €	34200.1400.01.3030.32	4654 €
6“	34200.1300.01.3232.32	upon request	34200.1400.01.3232.32	upon request

Double seal valve N4 – piggable – DIN reduced

pneumatic – air to open-spring to close NC

Type N4.04 - A-B-C-D

up large - down small Typ 150			up small – down large type 200		
DIN	**Reference number**	**Price**	**DIN**	**Reference number**	**Price**
65/40	34200.1400.01.0806.32	2643 €	40/65	34200.1400.01.0608.32	2643 €
65/50	34200.1400.01.0807.32	2677 €	50/65	34200.1400.01.0708.32	2677 €
80/40	34200.1400.01.0906.32	2822 €	40/80	34200.1400.01.0609.32	2822 €
80/50	34200.1400.01.0907.32	2856 €	50/80	34200.1400.01.0709.32	2856 €
80/65	34200.1400.01.0908.32	3161 €	65/80	34200.1400.01.0809.32	3161 €
100/40	34200.1400.01.1006.32	3202 €	40/100	34200.1400.01.0610.32	3202 €
100/50	34200.1400.01.1007.32	3236 €	50/100	34200.1400.01.0710.32	3236 €
100/65	34200.1400.01.1008.32	3541 €	65/100	34200.1400.01.0810.32	3541 €
100/80	34200.1400.01.1009.32	3898 €	80/100	34200.1400.01.0910.32	3898 €
125/40	34200.1400.01.1106.32	3666 €	40/125	34200.1400.01.0611.32	3666 €
125/50	34200.1400.01.1107.32	3700 €	50/125	34200.1400.01.0711.32	3700 €
125/65	34200.1400.01.1108.32	4005 €	65/125	34200.1400.01.0811.32	4005 €
125/80	34200.1400.01.1109.32	4362 €	80/125	34200.1400.01.0911.32	4362 €
125/100	34200.1400.01.1110.32	5118 €	100/125	34200.1400.01.1011.32	5118 €
150/40	34200.1400.01.1206.32	4066 €	40/150	34200.1400.01.0612.32	4066 €
150/50	34200.1400.01.1207.32	4100 €	50/150	34200.1400.01.0712.32	4100 €
150/65	34200.1400.01.1208.32	4405 €	65/150	34200.1400.01.0812.32	4405 €
150/80	34200.1400.01.1209.32	4762 €	80/150	34200.1400.01.0912.32	4762 €
150/100	34200.1400.01.1210.32	5518 €	100/150	34200.1400.01.1012.32	5518 €
150/125	34200.1400.01.1211.32	upon request	125/150	34200.1400.01.1112.32	u. r.

In case of order you get a 3D step file for your construction

Gasket kits

product side for double seal valve type DD

	EPDM with 2 Viton O-rings in seat area	
DIN	**Reference number**	**Price**
40	5004219	88 €
50	5004661	95 €
65	5006467	99 €
80	5004663	103 €
100	5004752	107 €

inserts for CIP and leakage valve upon request

Gasket kits

product side for double seal valve type N4 piggable

	DIN		Inch	
EPDM	**Reference number**	**Price**	**Reference number**	**Price**
40	5006705	65 €	5006916	65 €
50	5006704	66 €	5006123	66 €
65	5005894	67 €	5006917	67 €
80	5006706	82 €	5006124	82 €
100	5006707	93 €	5006918	93 €

inserts for CIP and leakage valve upon request