



flow & process solutions





Hygienic Single Seat Valves



RIEGER Hygienic single seat valves are used where a maximum of productivity, safety and quality is required. They can be found in plants of dairies, the food industry, the pharmaceutical and the chemical industries and in biotechnology.

The progressive valve program, thousand old proven in daily applications, enables high flexibility within the individual production series. This is why RIEGER Hygienic single seat valves ensure the perfect solution for our customers for their liquid products.

Due to the modular building system the change from hygienic to aseptic, from "air to open" to "air to close" is possible without problems. Also the installation dimensions can be customized to the givens in place.

Your advantages

Design	solid valve body, no dead spaces completely draining many built-in positions possible
Product safety	high-grade inner surfaces no dome or sump in product space
Maintenance	change of seals without special tools optimum cleanability
Efficiency	building block system standard seals low spare part costs

Technical Data

Material	product	1.4404/AISI316L
	contact	1.4435/AISI316L
	optional	1.4301/AISI304
	non product contact	
Seals	O-rings	EPDM (Viton and other material upon request)
Temperatures maximum	operating temperature	130 °C
	sterilising temperature	150 °C* short-time (approx. 20 min)
Operating pressure	closing pressure	max. 6 bar
	Note:	see catalog pages
	Change over valves:	
Surfaces	Actuator	min 6 bar -
	control air pressure	max. 10 bar
	produktberührt optional	Ra <= 0,8 µm (32 µin) electro polished, other surfaces upon request
	no product contact	Ra <=1,6 µm (64 µin)Tyü
Connections Standard pipes	DIN 11850-R2 (DIN 11866 A)	
	O.D.-Tube (DIN 11866 C)	
	DIN EN ISO 1127 (DIN 11866-B)	

* dependent upon operating conditions



3-A versions available

see 3-A certificate on website
www.rr-rieger.de



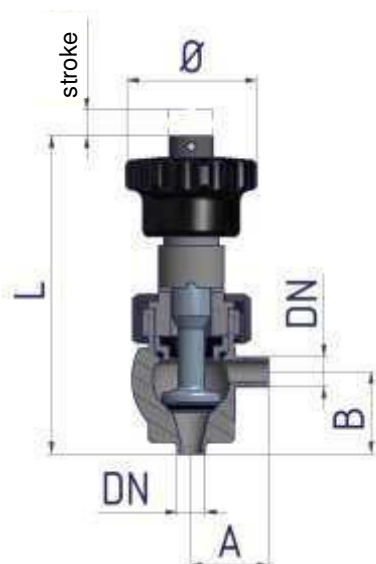


Hygienic Single Seat Valves



Hygienic Right Angle Valve Type L

manual with plastic hand wheel

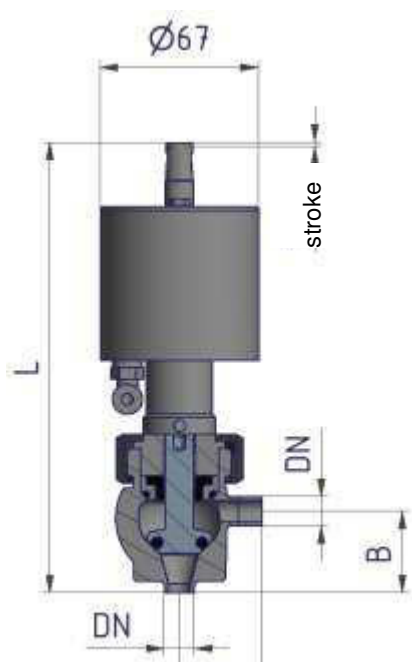


DIN	Pipe	A	B	L	Stroke	kg
10	13 x 1,5	35	35	125	5	1,5
15	19 x 1,5	40	40	130	5	1,5
20	23 x 1,5	45	45	135	5	1,6

Inch	Pipe	A	B	L	Stroke	kg
1/2"	12,7 x 1,65	35	35	125	5	1,5
3/4"	19,05 x 1,65	40	40	130	5	1,5

Hygienic Right Angle Valve Type L

pneumatic – air to open-spring to close NC



DIN	Pipe	A	B	L	Stroke	kg
10	13 x 1,5	35	35	200	5	2,0
15	19 x 1,5	40	40	205	5	2,0
20	23 x 1,5	45	45	210	5	2,1

Inch	Pipe	A	B	L	Stroke	kg
1/2"	12,7 x 1,65	35	35	200	5	2,0
3/4"	19,05 x 1,65	40	40	205	5	2,0

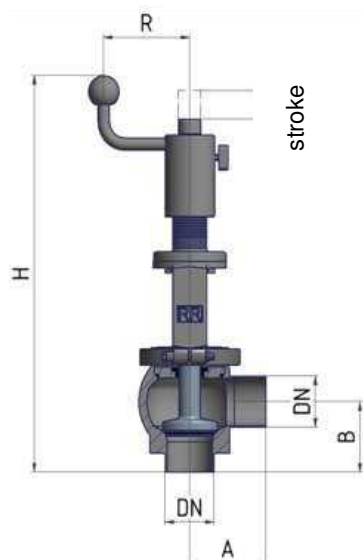


Hygienic Single Seat Valves



Hygienic Right Angle Valve Type L

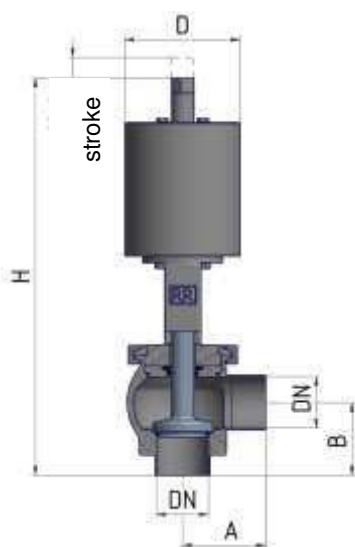
manual with crank handle



DN	Pipe	A	B	R	H	Stroke	kg
25	29 x 1,5	50	50	73	300	16	3,1
40	41 x 1,5	60	60	73	300	16	5,3
50	53 x 1,5	80	70	90	380	20,5	5,7
65	70 x 2	100	80	90	395	22	7,6
80	85 x 2	125	90	90	435	30	10,3
100	104 x 2	150	100	90	445	33	14,3
1"	25,4 x 1,65						3,1
1 1/2"	38,1 x 1,65		In case of order				5,3
2"	50,8 x 1,65		you get a 3D step file				5,7
2 1/2"	63,5 x 1,65		for your design department.				7,6
3"	76,2 x 1,65						10,3
4"	101,6 x 2,11						14,3

Hygienic Right Angle Valve Type L

pneumatic – air to open-spring to close NC



DN	Pipe	A	B	D	H	Stroke	kg
25	29 x 1,5	50	50	90	305	16	5,1
40	41 x 1,5	60	60	90	315	16	6,2
50	53 x 1,5	80	70	110	380	20,5	10,4
65	70 x 2	100	80	133	430	22	15,2
80	85 x 2	125	90	172	505	30	24,7
100	104 x 2	150	100	172	660	33	28,6
1"	25,4 x 1,65						5,1
1 1/2"	38,1 x 1,65		In case of order				6,2
2"	50,8 x 1,65		you get a 3D step file				10,4
2 1/2"	63,5 x 1,65		for your design department.				15,2
3"	76,2 x 1,65						24,7
4"	101,6 x 2,11						28,6

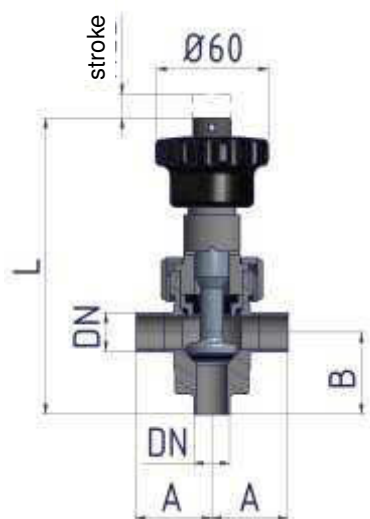


Hygienic Single Seat Valves



Hygienic Double Right Angle Valve Type T

manual with plastic hand wheel

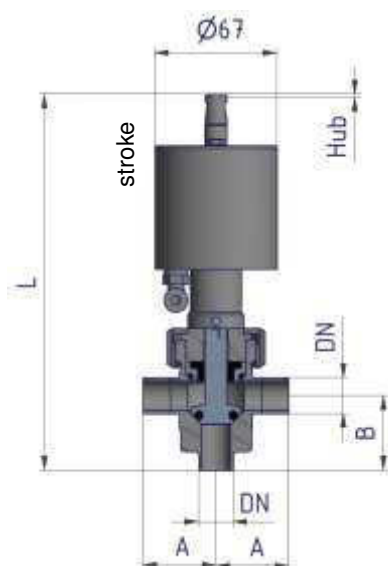


DIN	Pipe	A	B	L	Stroke	kg
10	13 x 1,5	35	35	125	5	1,5
15	19 x 1,5	40	40	130	5	1,5
20	23 x 1,5	45	45	135	5	1,6

Inch	Pipe	A	B	L	Stroke	kg
1/2"	12,7 x 1,65	35	35	125	5	1,5
3/4"	19,05 x 1,65	40	40	130	5	1,5

Hygienic Double Right Angle Valve Type T

pneumatic – air to open-spring to close NC



DIN	Pipe	A	B	L	Stroke	kg
10	13 x 1,5	35	35	200	5	2,0
15	19 x 1,5	40	40	205	5	2,0
20	23 x 1,5	45	45	210	5	2,1

Inch	Pipe	A	B	L	Stroke	kg
1/2"	12,7 x 1,65	35	35	200	5	2,0
3/4"	19,05 x 1,65	40	40	205	5	2,0

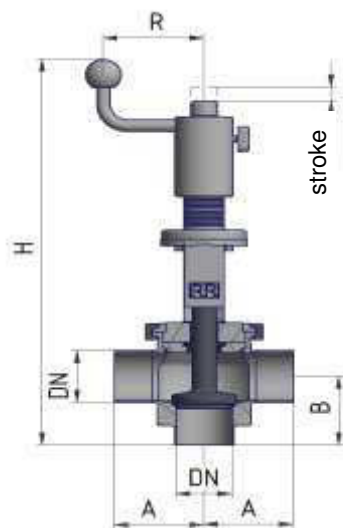


Hygienic Single Seat Valves



Hygienic Double Right Angle Valve Type T

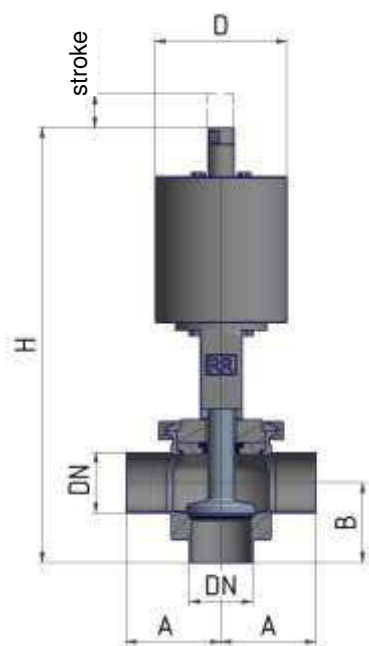
manual with crank handle



DN	Pipe	A	B	R	H	Stroke	kg
25	29 x 1,5	50	50	73	310	18	3,1
40	41 x 1,5	60	60	73	330	18	5,3
50	53 x 1,5	80	70	90	400	22	5,7
65	70 x 2	100	80	90	415	25	7,6
80	85 x 2	125	90	90	445	33	10,3
100	104 x 2	150	100	90	465	35	14,3
1"	25,4 x 1,65					18	3,1
1 1/2"	38,1 x 1,65	In case of order				18	5,3
2"	50,8 x 1,65	you get a 3D step file				22	5,7
2 1/2"	63,5 x 1,65	for your design department.				25	7,6
3"	76,2 x 1,65					33	10,3
4"	101,6 x 2,11					35	14,3

Hygienic Double Right Angle Valve Type T

pneumatic – air to open-spring to close NC



DN	Pipe	A	B	D	H	Stroke	kg
25	29 x 1,5	50	50	90	310	18	5,1
40	41 x 1,5	60	60	90	325	18	6,2
50	53 x 1,5	80	70	110	384	22	10,4
65	70 x 2	100	80	133	445	25	15,2
80	85 x 2	125	90	160	509	33	24,7
100	104 x 2	150	100	168	527	35	28,6
1"	25,4 x 1,65					18	5,1
1 1/2"	38,1 x 1,65	In case of order				18	6,2
2"	50,8 x 1,65	you get a 3D step file				22	10,4
2 1/2"	63,5 x 1,65	for your design department.				25	15,2
3"	76,2 x 1,65					33	24,7
4"	101,6 x 2,11					35	28,6

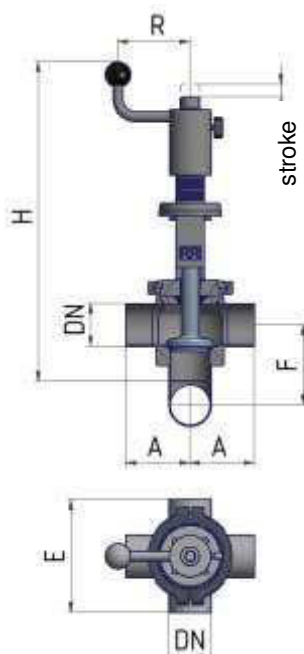


Hygienic Single Seat Valves



Hygienic Cross Valve Type TT

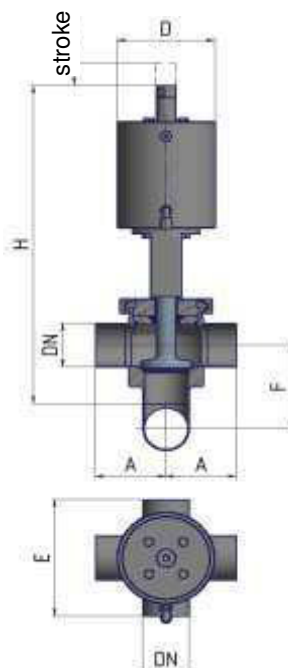
manual with crank handle



DN	Pipe	A	E	F	R	H	Stroke	kg
25	29 x 1,5	50	100	66	73	310	18	3,2
40	41 x 1,5	60	120	82	73	330	18	5,5
50	53 x 1,5	80	140	99	90	400	22	6,0
65	70 x 2	100	160	119	90	415	25	8,1
80	85 x 2	125	180	136	90	445	33	10,9
100	104 x 2	150	200	156	90	465	35	15,2
1"	25,4 x 1,65						18	3,2
1 1/2"	38,1 x 1,65	In case of order					18	5,5
2"	50,8 x 1,65	you get a 3D step file					22	6,0
2 1/2"	63,5 x 1,65	for your design department.					25	8,1
3"	76,2 x 1,65						33	10,9
4"	101,6 x 2,11						35	15,2

Hygienic Cross Valve Type TT

pneumatic – air to open-spring to close NC



DN	Pipe	A	E	F	D	H	Stroke	kg
25	29 x 1,5	50	100	66	90	310	18	5,2
40	41 x 1,5	60	120	82	90	325	18	6,4
50	53 x 1,5	80	140	99	110	384	22	10,5
65	70 x 2	100	160	119	133	445	25	15,7
80	85 x 2	125	180	136	160	509	33	25,4
100	104 x 2	150	200	156	168	527	35	29,5
1"	25,4 x 1,65						18	5,2
1 1/2"	38,1 x 1,65	In case of order					18	6,4
2"	50,8 x 1,65	you get a 3D step file					22	10,5
2 1/2"	63,5 x 1,65	for your design department.					25	15,7
3"	76,2 x 1,65						33	25,4
4"	101,6 x 2,11						35	29,5



Hygienic Single Seat Valves



Hygienic Bottom Seat Small Valve

manual with plastic hand wheel

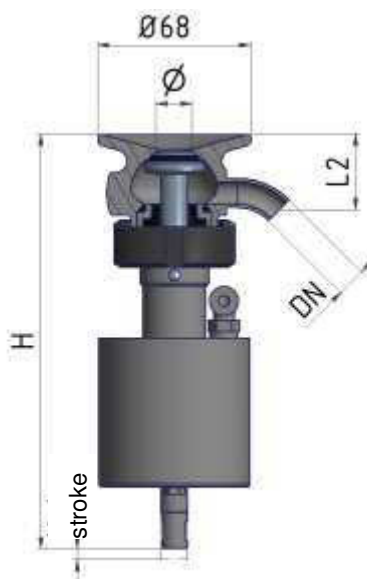


DIN	Pipe	H	L2	Stroke	kg	Ø
10	13 x 1,5	115	35	5	1,4	16
15	19 x 1,5	115	35	5	1,4	20
20	23 x 1,5	130	35	5	1,4	20

Valve body with turned on weld-in flange
for direct welding into tank bottom

Hygienic Bottom Seat Small Valve

pneumatic – air to open-spring to close NC



DIN	Pipe	H	L2	Stroke	kg	Ø
10	13 x 1,5	184	35	5	1,8	16
15	19 x 1,5	184	35	5	1,8	20
20	23 x 1,5	189	35	5	1,9	20

Valve body with turned on weld-in flange
for direct welding into tank bottom

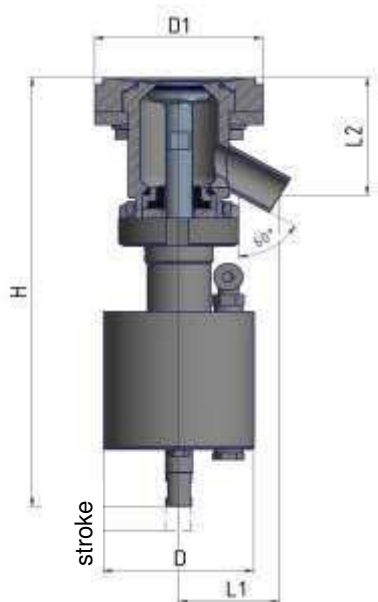


Hygienic Single Seat Valves



Hygienic Bottom Seat Valve 30°

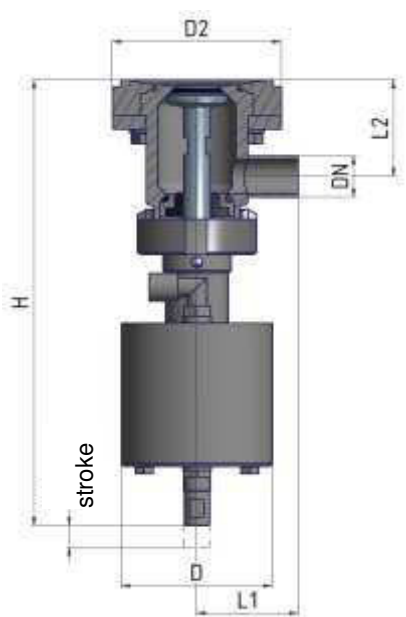
pneumatic – air to open-spring to close NC



DIN	Pipe	D1	DZ	H	L1	L2	Stroke
10	13 x 1,5	75	64	205	45	61	10
15	19 x 1,5	75	64	205	46	58	10
20	23 x 1,5	75	64	205	48	57	10

Hygienic Bottom Seat Valve 90°

pneumatic – air to open-spring to close NC



DIN	Pipe	D1	DZ	H	L1	L2	Stroke
10	13 x 1,5	75	64	205	45	48,5	10
15	19 x 1,5	75	64	205	45	45,5	10
20	23 x 1,5	75	64	205	45	43,5	10

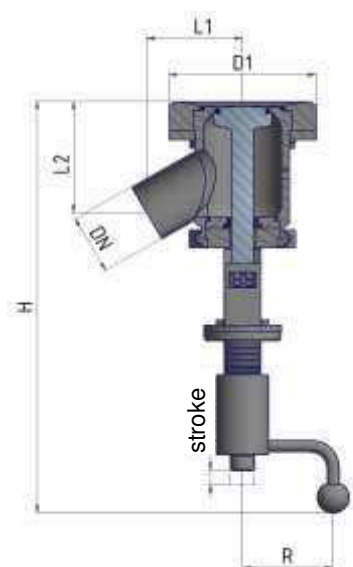


Hygienic Single Seat Valves



Hygienic Bottom Seat Valve 30° ISO

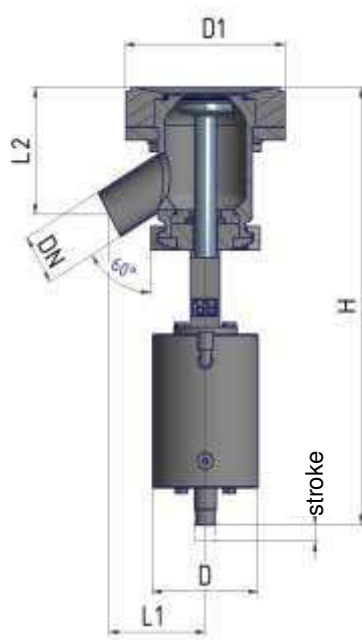
manual with crank handle



ISO	Pipe	D1	H	L1	L2	Stroke
20	26,9 x 1,6	108	320	65	86	18
25	33,7 x 2	108	320	65	83	18
40	48,3 x 2	146	420	85	113	22
50	60,3 x 2	146	420	85	106	22
65	76,2 x 2,3	173	450	100	129,5	25
80	88,9 x 2,3	186	475	115	144	33
100	114,3 x 2,6	217	520	150	183	35

Hygienic Bottom Seat Valve 30° ISO

pneumatic – air to open-spring to close NC



ISO	Pipe	D1	DZ	H	L1	L2	Stroke	kg
20	26,9 x 1,6	108	90	306	65	86	18	
25	33,7 x 2	108	90	306	65	83	18	
40	48,3 x 2	146	110	375	85	113	22	
50	60,3 x 2	146	110	375	85	106	22	
65	76,2 x 2,3	173	133	445	100	129,5	25	
80	88,9 x 2,3	186	160	475	115	144	33	
100	114,3 x 2,6	217	168	565	150	183	35	

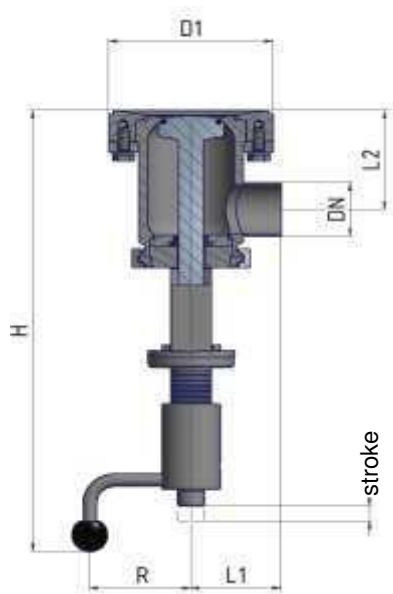


Hygienic Single Seat Valves



Hygienic Bottom Seat Valve 90°

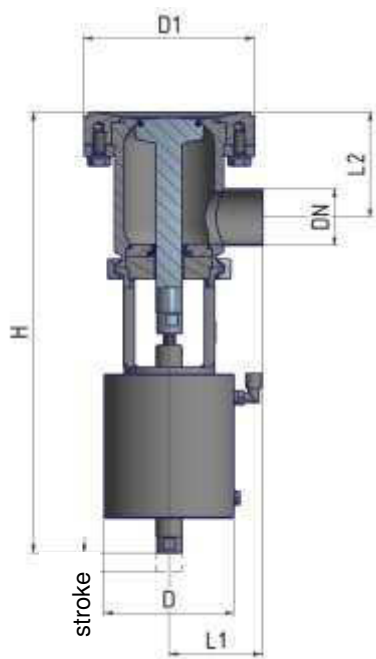
manual with crank handle



DN	Pipe	D1	H	L1	L2	Stroke	kg
25	29 x 1,5	108	320	60	68,5	18	3,7
40	41 x 1,5	133	330	70	73,5	18	6,7
50	53 x 1,5	146	420	80	94	20	7,6
65	70 x 2	173	450	95	112,5	25	10,1
80	85 x 2	186	475	105	124	33	12,5
100	104 x 2	217	520	120	155	35	16,9
1"	25,4 x 1,65	108	320	60	68,5	18	3,7
1 1/2"	38,1 x 1,65	133	330	70	73,5	18	6,7
2"	50,8 x 1,65	146	420	80	94	20	7,6
2 1/2"	63,5 x 1,65	173	450	95	112,5	25	10,1
3"	76,2 x 1,65	186	475	105	124	33	12,5
4"	101,6 x 2,11	217	520	120	155	35	16,9

Hygienic Bottom Seat Valve 90°

pneumatic – air to open-spring to close NC



DN	Pipe	D1	DZ	H	L1	L2	Stroke	kg
25	29 x 1,5	108	90	315	60	68,5	18	6,1
40	41 x 1,5	133	90	330	70	73,5	18	8,1
50	53 x 1,5	146	110	399	80	94	20	16,1
65	70 x 2	173	133	466	95	112,5	22	20,8
80	85 x 2	186	160	529	105	124	30	25,5
100	104 x 2	217	168	572	120	155	32	29,7
1"	25,4 x 1,65	108	90	315	60	68,5	18	6,1
1 1/2"	38,1 x 1,65	133	90	330	70	73,5	18	8,1
2"	50,8 x 1,65	146	110	399	80	94	20	16,1
2 1/2"	63,5 x 1,65	173	133	466	95	112,5	22	20,8
3"	76,2 x 1,65	186	160	529	105	124	30	25,5
4"	101,6 x 2,11	217	168	572	120	155	32	29,7

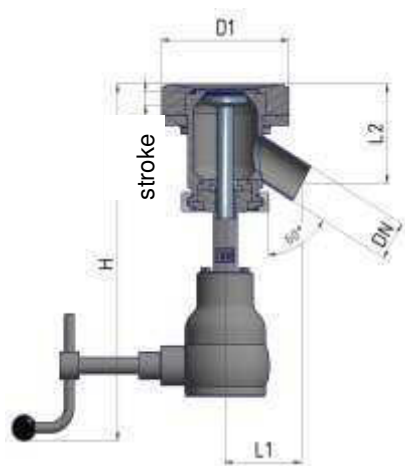


Hygienic Single Seat Valves



Hygienic Bottom Seat Valve 30°

manual with bevel gear drive



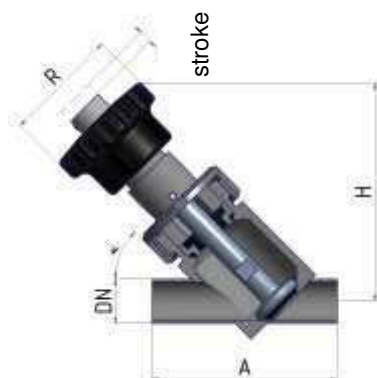
DN	Pipe	D1	Stroke	H	L1	L2	kg
25	29 x 1,5	108	18	335	65	85,5	6,4
40	41 x 1,5	133	18	345	80	94	8,1
50	53 x 1,5	146	20	395	85	110,5	9,5
65	70 x 2	173	22	420	100	132,5	12,7
80	85 x 2	186	30	455	115	146	14,7
100	104 x 2	217	32	500	150	188	19,1
1"	25,4 x 1,65	108	18	335	65	85,5	6,4
1 1/2"	38,1 x 1,65	133	18	345	80	94	8,1
2"	50,8 x 1,65	146	20	395	85	110,5	9,5
2 1/2"	63,5 x 1,65	173	22	420	100	132,5	12,7
3"	76,2 x 1,65	186	30	455	115	146	14,7
4"	101,6 x 2,11	217	32	500	150	188	19,1

In case of order we request dimension of handle extension.



Hygienic Inclined Seat Valve

manual with plastic hand wheel



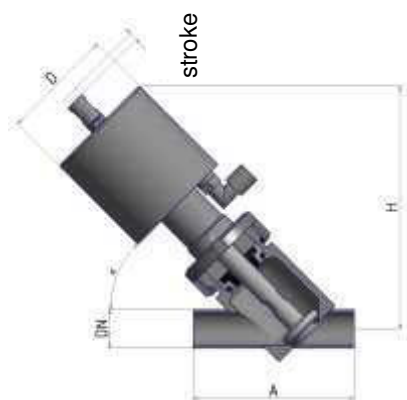
DIN	Pipe	A	<	R	H	Stroke	kg
ca.							

15	19 x 1,5	117	45°	66	103	10
20	23 x 1,5	95	45°	66	103	10

DN 15 = excentrically reduced DN 20/15

Hygienic Inclined Seat Valve

pneumatic – air to open-spring to close NC



DIN	Pipe	A	<	D	H	L	Stroke	kg
ca.								

15	19 x 1,5	117	45°	64	145	195	10
20	23 x 1,5	95	45°	64	145	175	10

DN 15 = excentrically reduced DN 20/15

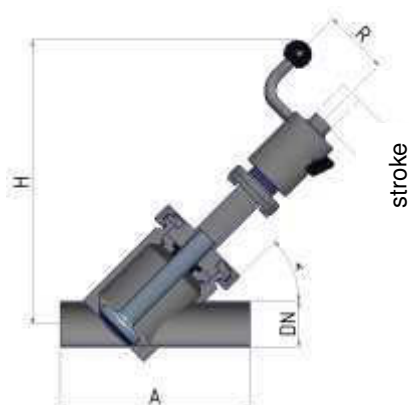


Hygienic Single Seat Valves



Hygienic Inclined Seat Valve

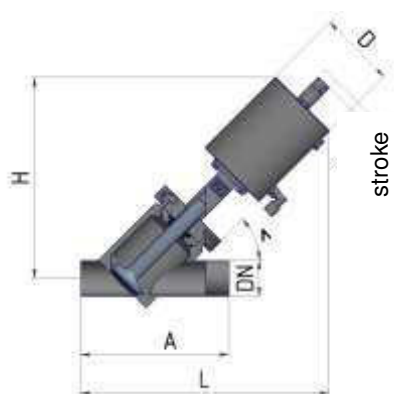
manual with crank handle



DN	Pipe	A	<	R	H	Stroke	kg
25	29 x 1,5	140	45°	73	275	18	5
40	41 x 1,5	170	45°	73	280	18	5,5
50	53 x 1,5	205	45°	90	355	22	10,5
65	70 x 2	250	40°	90	350	25	14
80	85 x 2	300	40°	90	365	33	23
100	104 x 2	350	40°	90	390	35	26
1"	25,4 x 1,65	140	45°	73	275	18	5
1 1/2"	38,1 x 1,65	170	45°	73	280	18	5,5
2"	50,8 x 1,65	205	45°	90	355	22	10,5
2 1/2"	63,5 x 1,65	250	40°	90	350	25	14
3"	76,2 x 1,65	300	40°	90	365	33	23
4"	101,6 x 2,11	350	40°	90	390	35	26

Hygienic Inclined Seat Valve

pneumatic – air to open-spring to close NC



DN	Pipe	A	<	D	H	Stroke	kg
25	29 x 1,5	140	45°	90	235	18	5,4
40	41 x 1,5	170	45°	90	240	18	6,2
50	53 x 1,5	205	45°	110	294	22	11
65	70 x 2	250	40°	133	325	25	15
80	85 x 2	300	40°	160	384	33	24,5
100	104 x 2	350	40°	168	392	35	28
1"	25,4 x 1,65	140	45°	90	235	18	5,4
1 1/2"	38,1 x 1,65	170	45°	90	240	18	6,2
2"	50,8 x 1,65	205	45°	110	294	22	11
2 1/2"	63,5 x 1,65	250	40°	133	325	25	15
3"	76,2 x 1,65	300	40°	160	384	33	24,5
4"	101,6 x 2,11	350	40°	168	392	35	28

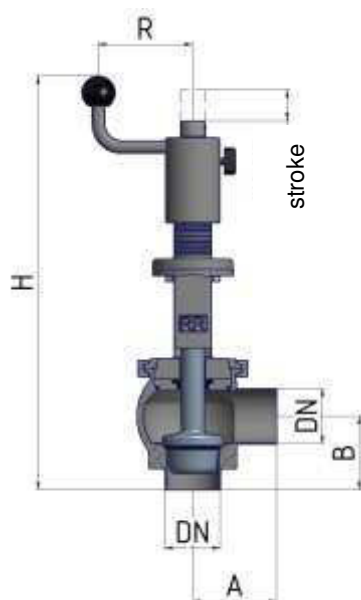


Hygienic Single Seat Valves



Hygienic Regulating Right Angle Valve

manual with crank handle

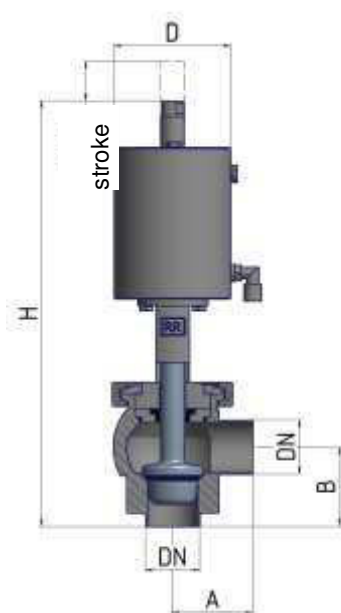


DN	Pipe	A	B	R	H	Stroke	kg
25	29 x 1,5	50	50	73	300	16	3,1
40	41 x 1,5	60	60	73	300	16	5,3
50	53 x 1,5	80	70	90	380	20,5	5,7
65	70 x 2	100	80	90	395	22	7,6
80	85 x 2	125	90	90	435	30	10,3
100	104 x 2	150	100	90	445	33	14,3
1"	25,4 x 1,65					16	3,1
1 1/2"	38,1 x 1,65	In case of order				16	5,3
2"	50,8 x 1,65	you get a 3D step file				20,5	5,7
2 1/2"	63,5 x 1,65	for your design department.				22	7,6
3"	76,2 x 1,65					30	10,3
4"	101,6 x 2,11					33	14,3

In case of order, details to working conditions are required like media, viscosity, temperature, incoming and outcoming pressure resp. pressure loss and flow quantity.

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pneumatic – air to open-spring to close NC - **for Bürkert Positioner**



DN	Pipe	A	B	D	H	Stroke	kg
25	29 x 1,5	50	50	90	305	16	5,1
40	41 x 1,5	60	60	90	315	16	6,2
50	53 x 1,5	80	70	110	380	20,5	10,4
65	70 x 2	100	80	133	430	22	15,2
80	85 x 2	125	90	172	505	30	24,7
100	104 x 2	150	100	172	660	33	28,6
1"	25,4 x 1,65					16	5,1
1 1/2"	38,1 x 1,65	In case of order				16	6,2
2"	50,8 x 1,65	you get a 3D step file				20,5	10,4
2 1/2"	63,5 x 1,65	for your design department.				22	15,2
3"	76,2 x 1,65					30	24,7
4"	101,6 x 2,11					33	28,6

Weights without adapter and positioner.



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