

Клапаны сегментные 5020, 5030, 5050

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Segmented disc valves 5020

with pneumatic actuator

DN 25 up to DN 300

Pneumatic control valve for the control of liquids and steam.

- suitable for contaminated fluids
- robust design
- tight in both directions
- controllable against the flow direction
- Space saving wafer type construction
- Quiet operation
- High Kvs-values



Technical data

Body design	flangeless, wafer-type construction for flanges acc. DIN EN 1092-1, form B	
Nominal size	DN 25 to DN 200	
Nominal pressure	DN 25 to DN 150	PN 25 acc. DIN 2401 (also for flanges PN 10 to PN 25)
	DN 200	PN 25 acc. DIN 2401
	DN 250 to DN 300	PN 16 acc. DIN 2401
Fluid temperature	-60°C up to 220°C	
Ambient temperature*	digital positioner: -10°C up to +75°C	analog positioner: -15°C up to +60°C
Rangeability	60:1	
Characteristic	modified linear	
Leakage % of Kvs	<0,001	

Materials

body	Stainless steel 1.4571
rack	Stainless steel 1.4112, treated
pressure spring	Stainless steel 1.4310
Fixed valve plate	Stainless steel 1.4112, treated
Moving valve disc	Stainless steel 1.4112, treated
slide ring	Stainless steel 1.4112, treated alternatively bronze
spring support	Stainless steel 1.4571
wear ring	Stainless steel 1.4571
body positioner	Aluminium anodized, synthetic

Positioners

For technical information of our positioners please refer to the corresponding data sheets.

Segmented disc valves with pneumatic actuator 5020

Admissible Differential Pressure (For temperatures of up to 120°C)

For temperatures of 120°C and above: obey application limits !

effective area of the actuator (cm²)	250 cm²	500 cm²	1000 cm²	1500 cm²	3000 cm²
pilot pressure (bar)	5	5	5	5	5
springs	10	20	10	10	20
	max. differential pressure in flow direction (against flow direction) [bar]				
25	25 (25)	25 (25)	-	-	-
32	25 (21)	25 (25)	-	-	-
40	25 (13)	25 (25)	-	-	-
50	25 (10)	25 (22)	25 (25)	-	-
65	25 (8)	25 (17)	25 (25)	-	-
80	20,8 (6)	25 (14)	25 (25)	-	-
100	10,4 (3,5)	25 (8)	25 (24)	-	-
125	5 (2)	12 (4,3)	25 (21)	-	-
150	-	-	25 (13)	25 (24)	25 (25)
200	-	-	25 (5,3)	25 (12)	24 (24)
250	-	-	-	16 (6)	16 (13)
300	-	-	-	16 (4,6)	16 (10)

pressure values of actuators that aren't listed on demand

Ordering Number System

[illegible]

1 - 5 : Please quote all 5 sections.
6 - 12: Quote only if required.

Type

Size

• Symbol: "V": Valve

"R": Repair kit (sealings)

1. Design		2. Body material		3. Safety position		4. Actuator		5. Special version		7. Springs		8. Stem sealing		9. Interior sealing	
1	SPV1-waver type construction PN10-PN25, (for flanges acc. DIN EN 1092-1, Form B)	1	Stainless steel 1.4571 respectively 1.4112	0	Spring closes	2	diaphragm actuator 250cm²	M	state, if further sections are quoted	-	Standard	-	Standard (gland packing)	-	Standard
				1	Spring opens	3	diaphragm actuator 500cm²	K	encapsulated version						
						1	diaphragm actuator 1000cm²								
						5	diaphragm actuator 1500cm²								
						7	diaphragm actuator 3000cm²								

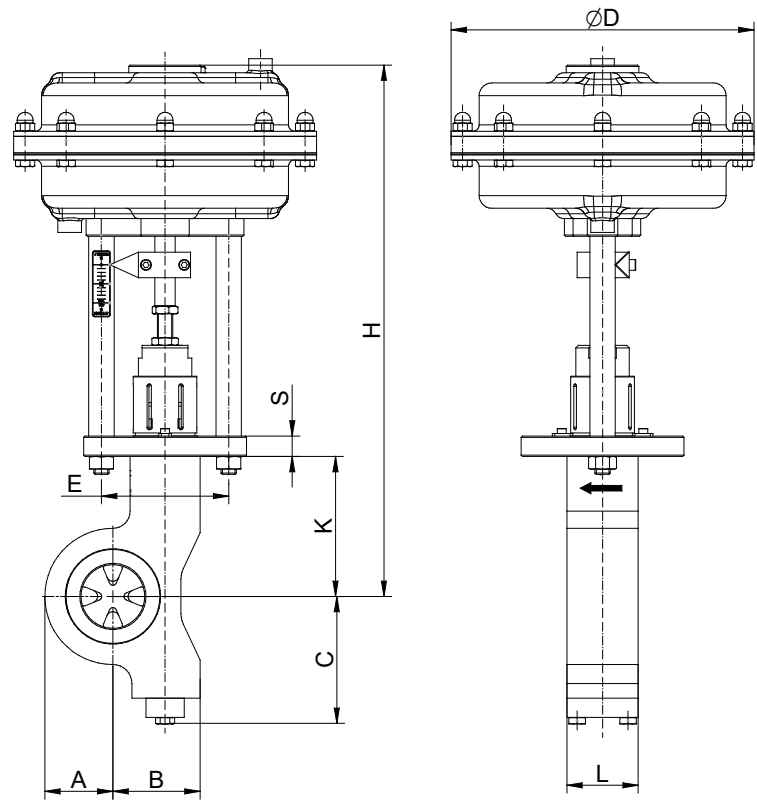
10. Moving valve disc		11. Fixed valve plate		12. Kvs-Value / characteristics		13. Accessories		14. Positioner		15. Positioner settings		16. Signal equipment		16. Accessories	
-	Standard, stainless steel 1.4112, treated	-	Standard, stainless steel 1.4112, treated	-	linear 100%	Z	Accessories (Pos. 14 ff.)	-	without	-	without	-	without	-	without
								P	Siemens PS2						

ordering example: 5020/050V1103M

SP-control valve type 5020 with pneumatic actuator DN 50, PN 10 - PN 40,
body material carbon steel, spring closes

Segmented disc valves with pneumatic actuator 5020

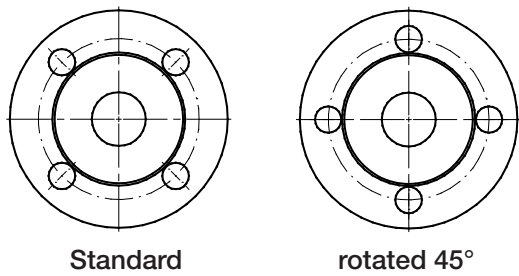
Installation dimensions



DN	A	B	C	K	L	stroke	Kvs [m³/h]	actuator				actuator				actuator				actuator				actuator			
								250 cm²				500 cm²				1000 cm²				1500 cm²				3000 cm²			
								D	H	S	E	D	H	S	E	D	H	S	E	D	H	S	E	D	H	S	E
25	35	49	70	85	39	24	7	240	358	16	80	240	479	16	80	---	---	---	---	---	---	---	---	---	---	---	---
32	41	54	78	97	39	28	15	240	370	16	80	240	491	16	80	---	---	---	---	---	---	---	---	---	---	---	---
40	46	59	82	88	45	32	24	240	361	16	80	240	482	16	80	---	---	---	---	---	---	---	---	---	---	---	---
50	54	69	100	110	56	29	38	240	418	16	100	240	539	16	100	477	655	20	216	---	---	---	---	---	---	---	---
65	64	77	96	133	63	23	52	240	441	16	100	240	562	16	100	477	677,5	20	216	---	---	---	---	---	---	---	---
80	71	85	120	140	69	26	87	240	448	16	100	240	569	16	100	477	685	20	216	---	---	---	---	---	---	---	---
100	83	95	112	160	79	31	171	240	468	16	100	240	589	16	100	477	705	20	216	---	---	---	---	---	---	---	---
125	97	108	139	170	79	37	275	240	478	16	100	240	599	16	100	477	715	20	216	---	---	---	---	---	---	---	---
150	113	130	182	205	129	45	410	---	---	---	---	---	---	---	---	477	750	20	216	550	908	24	230	550	1212	24	230
200	142	162	193	215	159	60	600	---	---	---	---	---	---	---	---	477	760	20	216	550	918	24	230	550	1222	24	230
250	160	195	218	255	153	74	1000	---	---	---	---	---	---	---	---	---	---	---	---	550	958	24	230	550	1262	24	230
300	192	217	248	280	154	64	1440	---	---	---	---	---	---	---	---	---	---	---	---	550	983	24	230	550	1287	24	230

dimensions in mm

Notice:
 The flanges from DN25 to DN50 have to be rotated by 45°, if the valve is to be installed vertically or horizontally.



Segmented disc valves 5020

with pneumatic actuator MZ

DN 25 up to DN 80

Pneumatic control valve for the control of liquids and steam.

- suitable for contaminated fluids
- robust design
- tight in both directions
- controllable against the flow direction
- Space saving wafer type construction
- Quiet operation
- High Kvs-values



Technical data

Body design	flangeless, wafer-type construction for flanges acc. DIN EN 1092-1, form B	
Nominal size	DN 25 to DN 80	
Nominal pressure	DN 25 to DN 80	PN 25 acc. DIN 2401 (also for flanges PN 10 to PN 25)
Fluid temperature	-60°C up to 220°C	
Ambient temperature*	-40°C bis +80°C	
Rangeability	60:1	
Characteristic	modified linear	
Leakage % of Kvs	<0,001	

* Please consider the limitation of use of the positioner!

Materials

body	Stainless steel 1.4571
rack	Stainless steel 1.4112, treated
pressure spring	Stainless steel 1.4310
Fixed valve plate	Stainless steel 1.4112, treated
Moving valve disc	Stainless steel 1.4112, treated
slide ring	Stainless steel 1.4112, treated alternatively bronze
spring support	Stainless steel 1.4571
wear ring	Stainless steel 1.4571
body positioner	Aluminium anodized, synthetic

Positioners

For technical information of our positioners please refer to the corresponding data sheets.

Segmented disc valves with pneumatic actuator MZ 5020

Admissible Differential Pressure (For temperatures of up to 120°C)

For temperatures of 120°C and above: obey application limits !

actuator	MZ 20"	MZ 30"
pilot pressure [bar]	5 - 6	
Size	max. differential pressure in flow direction (against flow direction) [bar]	
DN25	25 (12)	-
DN32	25 (6,5)	-
DN40	13 (4)	-
DN50	-	9 (3)
DN65	-	8 (2,5)
DN80	-	3,5 (1,5)

Ordering Number System

[illegible]

1 - 5 : Please quote all 5 sections.
6 - 12: Quote only if required.

Type

Size

-Symbol: "V": Valve

"R": Repair kit (sealings)

1. Design		2. Body material		3. Safety position		4. Actuator		5. Special version		7. Springs		8. Stem sealing		9. Interior sealing	
1	SPV1-waver type construction PN10-PN25, (for flanges acc. DIN EN 1092-1, Form B)	1	Stainless steel 1.4571 respectively 1.4112	0	Spring closes	8	diaphragm actuator MZ 20*	M	state, if further sections are quoted	-	Standard	-	Standard Gland	-	Standard
				1	Spring opens	9	diaphragm actuator MZ 30*	K	encapsulated version						
10. Moving valve disc		11. Fixed valve plate		12. Kvs-Value / characteristics		13. Accessories		14. Positioner		15. Positioner settings		16. Signal equipment		16. Accessories	
-	Standard, stainless steel 1.4112, treated	-	Standard, stainless steel 1.4112, treated	-	linear 100%	Z	Accessories (Pos. 14 ff.)	-	without	-	without	-	without	-	without
								P	Siemens PS2						

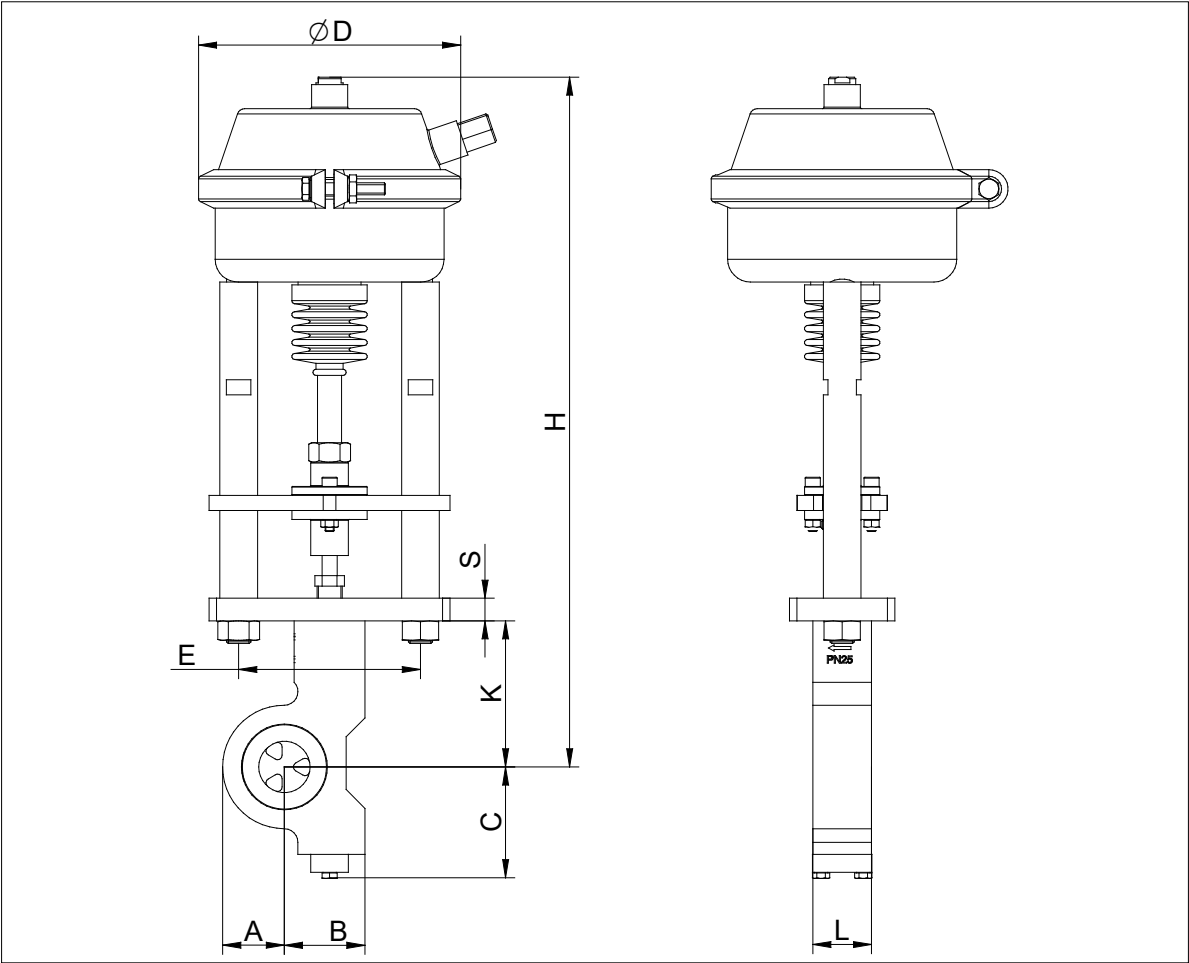
ordering example: 5020/050V1109M-----ZP

SP-control valve type 5020 with pneumatic actuator DN 50, PN 10 - PN 40,

body material carbon steel, spring closes, diaphragm actuator MZ 30“, with positioner Siemens PS2

Segmented disc valves with pneumatic actuator MZ 5020

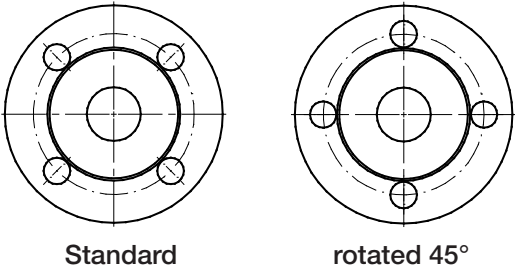
Installation dimensions



DN	A	B	C	K	L	stroke	Kvs [m³/h]	actuator MZ 20"				actuator MZ 30"			
								D	H	S	E	D	H	S	E
25	35	49	70	85	39	24	7	174	446	15	120,7	-	-	-	-
32	41	54	78	97	39	28	15	174	458	15	120,7	-	-	-	-
40	46	59	82	88	45	32	24	174	449	15	120,7	-	-	-	-
50	54	69	100	110	56	29	38	-	-	-	-	204	460	15	120,7
65	64	77	96	133	63	23	52	-	-	-	-	204	483	15	120,7
80	71	85	120	140	69	26	87	-	-	-	-	204	490	15	120,7

dimensions in mm

Notice:
 The flanges from DN25 to DN50 have to be rotated by 45°, if the valve is to be installed vertically or horizontally.



Motorized Segmented disc valves 5030

DN 25 bis DN 300

Pneumatic control valve for the control of liquids and steam.

- suitable for contaminated fluids
- robust design
- tight in both directions
- controllable in both directions
- space saving wafer type construction
- quiet operation
- high KVs-values

Technical data

Body design	flangeless, wafer-type construction for flanges acc. DIN EN 1092-1, form B	
Nominal size	DN25 to DN200	
Nominal pressure	DN25 to DN150	PN 25 acc. DIN 2401 (also for flanges PN 10 to PN 25)
	DN 200	PN 25 acc. DIN 2401
	DN 250 to DN 300	PN 16 acc. DIN 2401
Fluid temperature	-60°C up to 220°C	
Ambient temperature*	-30°C up to +100°C	
Rangeability	60:1	
Characteristic	modified linear	
Leakage % of Kvs	<0,001	

* Please consider the limitation of use of the actionator!

Materials

body	Stainless steel 1.4571
rack	Stainless steel 1.4112, treated
pressure spring	Stainless steel 1.4310
Fixed valve plate	Stainless steel 1.4112, treated
Moving valve disc	Stainless steel 1.4112, treated
slide ring	Stainless steel 1.4112, treated alternatively bronze
spring support	Stainless steel 1.4571
wear ring	Stainless steel 1.4571

Actuators

There are various types of actuators available.

For technical data on the actuators please consult the corresponding data sheets.



Motorized Segmented disc valves 5030

Admissible Differential Pressure (For temperatures of up to 120°C)

For temperatures of 120°C and above:
obey application limits !

Actuators Type 2030 (On-Off and Control)

force	2 kN	5 kN
DN	max. differential pressure in flow direction (against flow direction) [bar]	
25	25 (16)	25 (25)
32	25 (11)	25 (25)
40	25 (8)	25 (22)
50	17 (5)	25 (16)
65	12 (4)	25 (11)
80	7 (3)	25 (9)
100	3 (2)	21 (6)

PSL-actuators

On-Off

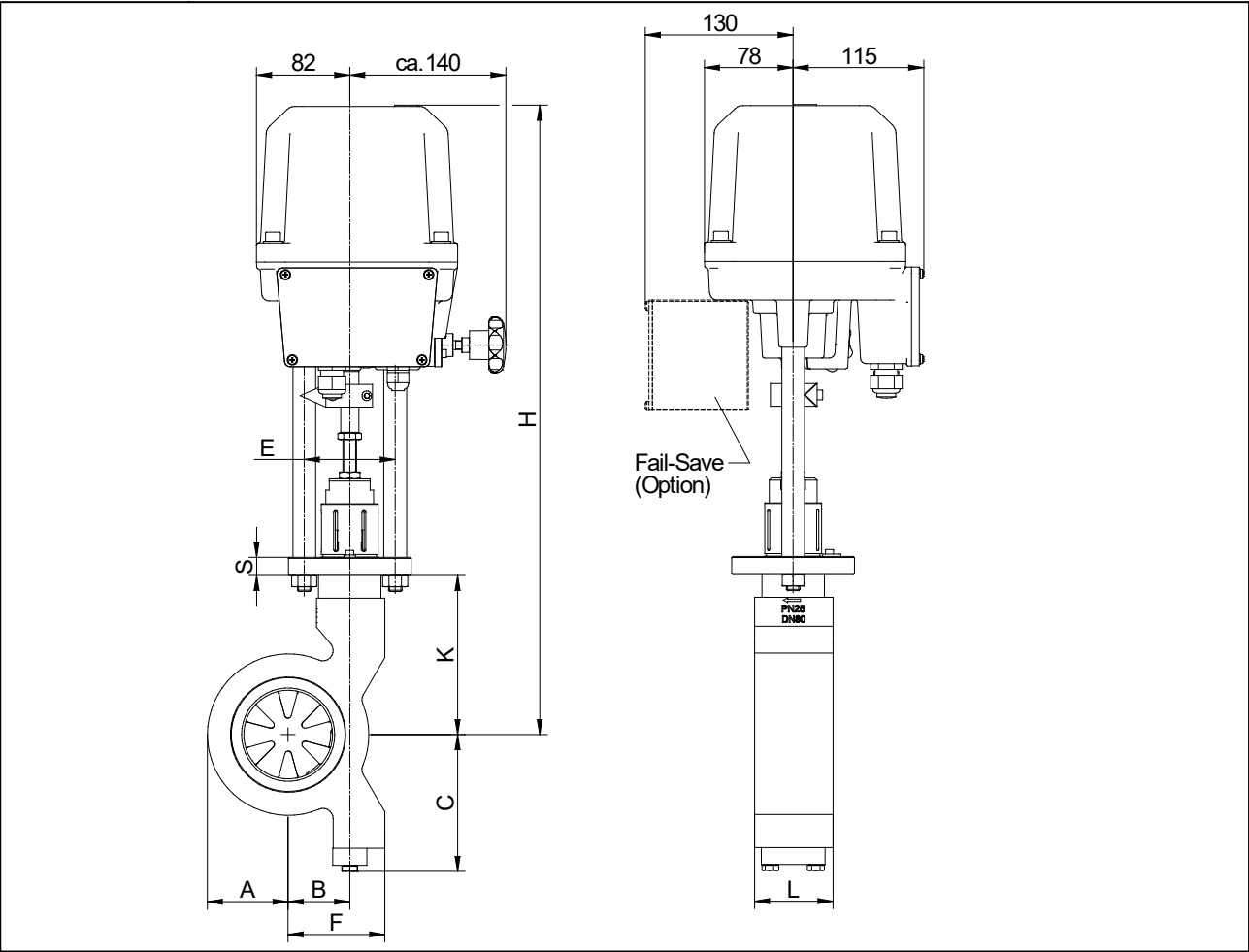
size of the actuator	PSL 204	PSL 210	PSL 320	PSL 325
force	4,5 kN	18 kN	20 kN	25 kN
DN	max. differential pressure in flow direction (against flow direction) [bar]			
25	25 (25)			
32	25 (25)			
40	25 (20)			
50	25 (14)	25 (25)		
65	25 (10)	25 (25)		
80	25 (8)	25 (25)		
100	17 (5)	25 (21)		
125	14 (5)	25 (20)	25 (25)	25 (25)
150	-	25 (13)	25 (17)	25 (22)
200	-	-	25 (9)	25 (12)
250		-	16 (6)	16 (7)
300	-	-	16 (4)	16 (5)

Control

size of the actuator	PSL 204-AMS11	PSL 210-AMS11	PSL 214-AMS12	PSL 320-AMS13	PSL 325-AMS13
force	2,3 kN	5 kN	7 kN	10 kN	12,5 kN
DN	max. differential pressure in flow direction (against flow direction) [bar]				
25	25 (19)	25 (25)			
32	25 (13)	25 (25)			
40	25 (9)	25 (22)	25 (25)		
50	22 (6)	25 (16)	25 (22)		
65	15 (4)	25 (11)	25 (16)		
80	9 (3)	25 (9)	25 (13)		
100	5 (2)	21 (6)	25 (9)		
125	-	17 (5)	25 (8)	25 (12)	25 (15)
150	-	9 (4)	19 (5)	25 (8)	25 (10)
200	-	-	-	24 (4)	25 (6)
250	-	-	-	15 (3)	16 (3)
300	-	-	-	9 (2)	14 (2)

Motorized Segmented disc valves 5030

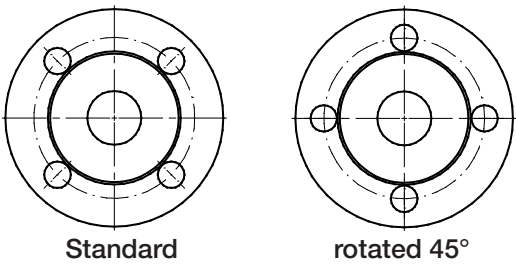
Installation dimensions with actuator Type 2030



DN	A	B	C	E	F	K	L	S	Stroke	Actuator 2 kN		Actuator 5 kN	
										H	Weight	H	Weight
25	35	25	70	100	49	99,5	39	16	24	457	12,8	489	14,5
32	41	30	78	100	53,5	112	39	16	28	470	14,3	502	16
40	46	33	82	100	59	103	45	16	32	461	15	493	16,7
50	53,5	41	100	100	68,5	125	56	16	29	524	17,8	556	19,5
65	63,5	50	96	100	76,5	147,5	63	16	23	546	19,6	578	21,3
80	71	54	120	100	85	155	69	16	26	554	22,5	586	24,2
100	83	64	112	100	95	175	79	16	31	574	26,7	606	28,4

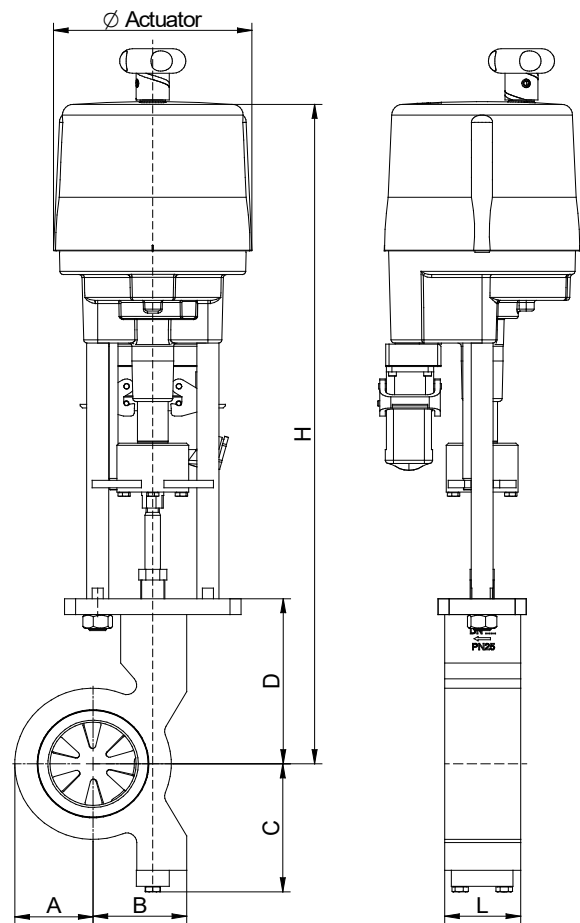
dimensions in mm

Notice:
 The flanges from DN25 to DN50 have to be rotated by 45°, if the valve is to be installed vertically or horizontally.



Motorized Segmented disc valves 5030

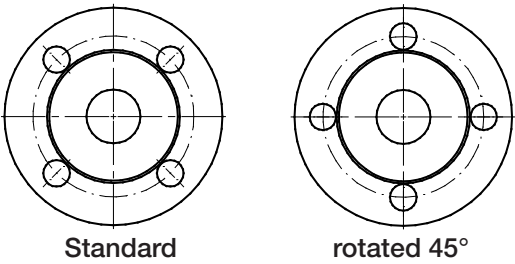
Installation dimensions with PSL-actuators



DN	A	B	C	D	L	Stroke	KVS [m³/h]	Actuator PSL 204			Actuator PSL 210			Actuator PSL 214			Actuator PSL 320			Actuator PSL 325		
								Ø D	H	Weight	Ø D	H	Weight	Ø D	H	Weight	Ø D	H	Weight	Ø D	H	Weight
25	35	49	70	99,5	39	24	6,8	177	616,5	11,5	---	---	---	---	---	---	---	---	---	0	---	---
32	41	53,5	78	112	39	28	15	177	629	12	---	---	---	---	---	---	---	---	---	---	---	---
40	46	59	82	103	45	32	24	177	620	12,7	---	---	---	---	---	---	---	---	---	---	---	---
50	53,5	68,5	100	125	56	29	38	177	642	15,5	177	644	17,5	---	---	---	---	---	---	---	---	---
65	63,5	76,5	96	147,5	63	23	52	177	664,5	17,3	177	666,5	19,3	180	730,5	21,3	---	---	---	---	---	---
80	71	85	120	155	69	26	87	177	672	20,2	177	674	22,2	180	738	24,2	---	---	---	---	---	---
100	83	95	112	175	79	31	171	177	692	24,4	177	694	26,4	180	758	28,4	---	---	---	---	---	---
125	97	108	139	185	79	37	275	177	702	30	177	704	32	180	768	34	250	905	45	250	905	45
150	112,5	130	182	220	129	45	410	---	---	---	177	739	56	180	803	58	250	940	69	250	940	69
200	142	162	193	235	159	60	600	---	---	---	---	---	---	---	---	---	250	955	112	250	955	112
250	160	195	217,5	280	153,2	74	1000	---	---	---	---	---	---	---	---	---	250	1000	142	250	1000	142
300	192	217	247,5	305	154	64	1440	---	---	---	---	---	---	---	---	---	250	1025	166	250	1025	166

dimensions in mm

Notice:
The flanges from DN25 to DN50 have to be rotated by 45°, if the valve is to be installed vertically or horizontally.



Segmented disk valve 5050

manual operated

DN 25 up to DN 200

Manual control valve for the control of liquids and steam.

- suitable for contaminated fluids
- robust design
- tight in both directions
- Space saving wafer type construction
- Quiet operation
- High Kvs-values



Technical data

Body design	flangeless, wafer-type construction for flanges acc. DIN EN 1092-1, form B	
Nominal size	DN 25 to DN 200	
Nominal pressure	DN 25 to DN 150	PN 25 acc. DIN 2401 (also for flanges PN 10 to PN 16)
	DN 200	PN 25 acc. DIN 2401
Fluid temperature	carbon steel body	-10°C to +220°C
	stainless steel body	-60°C to +220°C
Ambient temperature	-30°C up to +100°C	
Leakage % of Kvs	< 0,001	

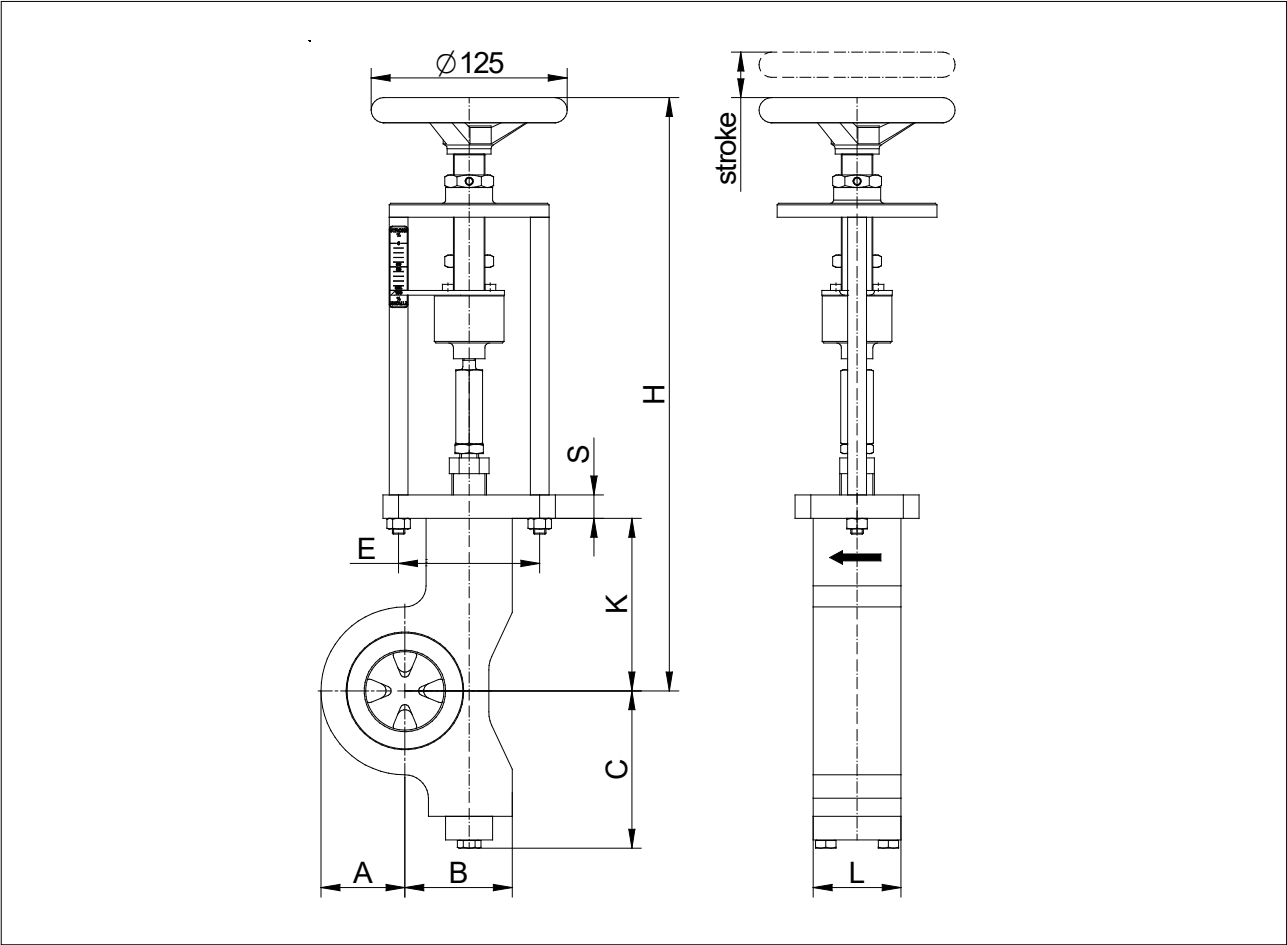
Materials

body	Stainless steel 1.4571
rack	Stainless steel 1.4112, treated
pressure spring	Stainless steel 1.4310
fixed valve plate	Stainless steel 1.4112, treated
moving valve disc	Stainless steel 1.4112, treated
slide ring	Stainless steel 1.4112, treated alternatively bronze
spring support	Stainless steel 1.4112, treated
wear ring	Stainless steel 1.4112, treated

SP-manual valve Type 5050 DN 50, PN 10 - PN 40, stainless steel

Segmented disk valve 5050

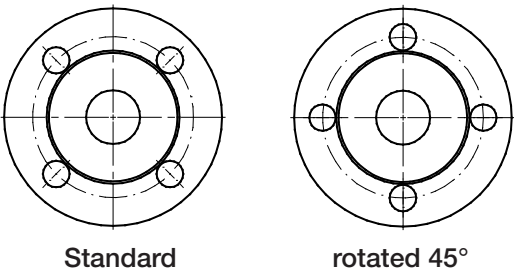
Installation dimensions



DN	A	B	C	K	L	S	H	E	Stroke	KVS [m³/h]
25	35	49	70	85	39	15	323	90	24	7
32	41	54	78	97	39	15	336	90	28	15
40	46	59	82	88	45	15	327	90	32	24
50	54	69	100	110	56	15	379	90	29	38
65	64	77	96	133	63	15	401	90	23	52
80	71	85	120	140	69	15	409	90	26	87
100	83	95	112	160	79	15	429	90	31	171

dimensions in mm

Notice:
The flanges from DN25 to DN50 have to be rotated by 45°, if the valve is to be installed vertically or horizontally.





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