

Pad mounted valve 7033

For valve block

DN10, DN15, DN20, DN32; PN40

Pneumatically actuated valves for mounting on valve blocks.

- Compact design
- Unaffected by lightly contaminated media
- For temperatures from -100°C up to +220°C
- Working pressures up to 40 bars
- Rotatable actuator
- Customised settings



Technical Information

Nominal sizes	DN 10, DN 15, DN 20, DN32
Body material	1.4408 (CF8M)
Nominal pressure	PN 40
Max. fluid temperature: with metal bonnet	-30°C up to +170°C, opt. -100°C up to +220°C
with plastic bonnet	-30°C up to +135°C
diaphragm act. stainless steel	-30°C up to +200°C, opt. -30°C up to +220°C
Ambient temperature	-15°C up to +60°C (special versions from -40°C up to +100°C possible)
Seat diameter	DN10: 12,5mm, DN15: 12,5mm, DN20: 18mm, DN32: 30mm
Viscosity of media	maximum 600 mm ² /s (600cSt, 80°E)
Vakuum	maximum 0,001 bar abs
working pressure	See tables and diagrams, limitation for dangerous gases acc. Pressure equipment directive 2014/68/EU (category I): PS x DN < 1000
Working pressure for packing underneath	maximum 12 bar
Working pressure for bellows	maximum 16 bar
Leakage acc. EN 12266-1	leakage class A

Options and accessories

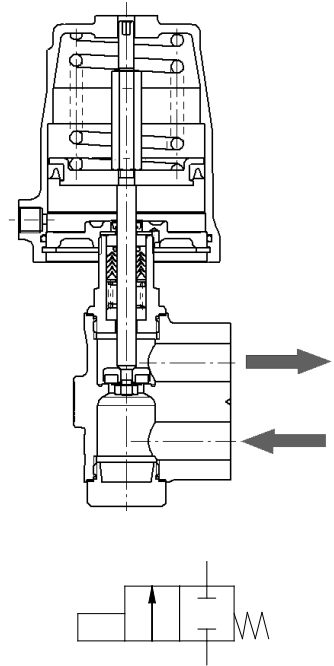
- Stroke limitation
- Manual emergency operation
- El. position indicator with inductive or mechanical limit switches
- Pilot valves
- AS-I control head
- Feedback unit for inductive limit switches
- Version for higher pilot pressures
- ...

Pad mounted valve 7033

Pilot- and differential pressures

Spring closes (closing against the flow)

Nominal size	Version	Actuator	Springs	Max. differential pressure [bar]			Pilot pressure [bar]
				PTFE	PEEK 7	PEEK 8	
DN10	Standard	D50	1	15,5	-	11	3,5 - 10
			2	27,5	4,9	23	4,5 - 10
			3	40	17	35,5	5,7 - 10
		D80	1	40	40	40	3,5 - 10
DN15	Standard	D50	1	15,5	-	11	3,5 - 10
			2	27,5	4,9	23	4,5 - 10
			3	40	17	35,5	5,7 - 10
		D80	1	40	40	40	3,5 - 10
DN20	Standard	D50	1	5,1	-	1,8	3,5 - 10
			2	10,5	-	7,4	4,5 - 10
			3	16	-	13	5,7 - 10
		D80	1	38,5	22	35	3,5 - 10
			2	40	35,5	40	4,4 - 10
			3	40	40	40	5,6 - 10
DN32	Standard	D50	1	1	-	-	3,5 - 10
			2	3,1	-	1,1	4,5 - 10
			3	5,1	-	3,1	5,7 - 10
		D80	1	11,5	1,8	9,7	3,5 - 10
			2	16	6,3	14	4,4 - 10
			3	21	11	19	5,6 - 10
		D125	1	10	0,6	8,4	1,3 - 10
			2	22,5	13	20,5	2,2 - 10
			3	32	22	30	3,1 - 10
			4	36	26,5	34	4,0 - 10



PEEK 7: Seating seal made of PEEK for use below 160°C

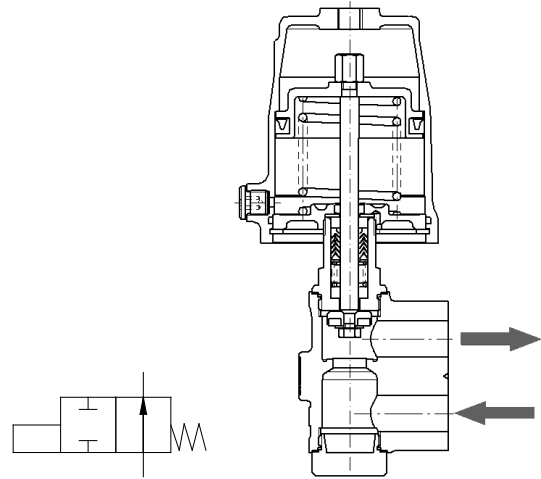
PEEK 8: Seating seal made of PEEK for use above 160°C

For soft seals such as EPDM, FKM, NBR or Vulkolan, the same values apply as for PTFE

Pad mounted valve 7033

Pilot- and differential pressures

Function „spring opens“, closing against flow



Seating seal PTFE, EPDM, FKM, NBR or Vulkolan

Nominal size	Version	Actuator	Max. differential pressure [bar] at available pilot pressure [bar]																
			2	2,5	3	3,5	4	4,5	5	5,5	6	6,5	7	7,5	8	8,5	9	9,5	10
DN10	Standard	D50	0	0	3,2	10	17	24	31	38	40	40	-	-	-	-	-	-	-
		D80	40	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DN15	Standard	D50	0	0	3,2	10	17	24	31	38	40	40	-	-	-	-	-	-	-
		D80	40	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DN20	Standard	D50	0	0	0	3	6,5	10	13	16,5	20	23,5	27	30,5	34	37,5	40	40	-
		D80	18	27,5	36,5	40	-	-	-	-	-	-	-	-	-	-	-	-	-
DN32	Standard	D50	0	0	0	0,3	1,6	2,8	4,1	5,4	6,7	8	9,3	10,5	11,5	13	14	15,5	16,5
		D80	5,3	8,7	12	15	18,5	22	25,5	28,5	32	35,5	39	40	-	-	-	-	-
		D125	24	32,5	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Seating seal PEEK-8 (for use above 160°C)

Nominal size	Version	Actuator	Max. differential pressure [bar] at available pilot pressure [bar]																
			2	2,5	3	3,5	4	4,5	5	5,5	6	6,5	7	7,5	8	8,5	9	9,5	10
DN10	Standard	D50	0	0	0	5,6	12,5	19,5	26,5	33,5	40	40	-	-	-	-	-	-	-
		D80	36,5	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DN15	Standard	D50	0	0	0	5,6	12,5	19,5	26,5	33,5	40	40	-	-	-	-	-	-	-
		D80	36,5	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DN20	Standard	D50	0	0	0	0	3,3	6,7	10	13,5	17	20,5	24	27,5	31	34,5	37,5	40	40
		D80	15	24	33	40	40	-	-	-	-	-	-	-	-	-	-	-	-
DN32	Standard	D50	0	0	0	0	0	0,9	2,2	3,4	4,7	6	7,3	8,6	9,9	11	12	13,5	15
		D80	3,4	6,7	10	13	16,5	20	23,5	26,5	30	33,5	37	40	40	-	-	-	-
		D125	22	30,5	38,5	40	-	-	-	-	-	-	-	-	-	-	-	-	-

Seat seal PEEK-7 (for use below 160°C)

Nominal size	Version	Actuator	Max. differential pressure [bar] at available pilot pressure [bar]																
			2	2,5	3	3,5	4	4,5	5	5,5	6	6,5	7	7,5	8	8,5	9	9,5	10
DN10	Standard	D50	0	0	0	0	0	1,3	8,3	15	22	29	36	40	40	-	-	-	-
		D80	18	36,5	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DN15	Standard	D50	0	0	0	0	0	1,3	8,3	15	22	29	36	40	40	-	-	-	-
		D80	18	36,5	40	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DN20	Standard	D50	0	0	0	0	0	0	0	0,8	4,2	7,7	11	14,5	18	21,5	25	28,5	32
		D80	2,3	11	20,5	29,5	38,5	40	-	-	-	-	-	-	-	-	-	-	-
DN32	Standard	D80	0	0	2,2	5,6	9	12	15,5	19	22	25,5	29	32,5	35,5	39	40	-	-
		D125	14	22,5	30,5	39	40	-	-	-	-	-	-	-	-	-	-	-	-

Actuator D50: max. pilot pressure 1 bar above the required pilot pressure

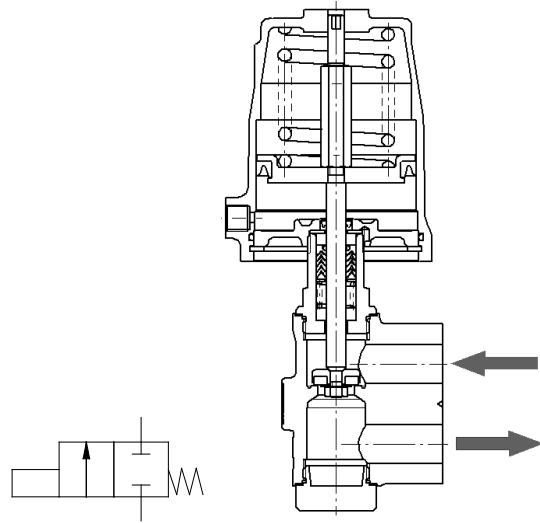
Actuator D80: max. pilot pressure 0,8 bar above the required pilot pressure

Actuator D125 and D250: max. pilot pressure 0,5 bar above the required pilot pressure

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Pilot- and differential pressures

Function „spring closes“, closing with flow



Seating seal PTFE, EPDM, FKM, NBR or Vulkolan

Nominal Size	Version	Actuator	Springs	Max. differential pressure [bar] at available pilot pressure [bar]																
				2	2,5	3	3,5	4	4,5	5	5,5	6	6,5	7	7,5	8	8,5	9	9,5	10
DN10	Standard	D50	Standard	0	13	29,5	40	40	40	40	40	40	40	40	40	40	40	40	40	40
DN15	Standard	D50	Standard	0	13	29,5	40	40	40	40	40	40	40	40	40	40	40	40	40	40
DN20	Standard	D50	Standard	0,4	5,3	10	15	19,5	24,5	29,5	34,5	39	40	40	40	40	40	40	40	40
		D80	Standard	26,5	39,5	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
DN32	Standard	D50	Standard	0,1	1,6	3	4,4	5,9	7,3	8,7	10	11,5	13	14,5	15,5	17	18,5	19	19	19
		D80	Standard	8,2	12	15,5	19,5	23	27	30,5	34,5	35	35	35	35	35	35	35	35	35
		D125	Standard	29	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35

Seating seal PEEK-8 (for use above 160°C)

Nominal Size	Version	Actuator	Springs	Max. differential pressure [bar] at available pilot pressure [bar]																
				2	2,5	3	3,5	4	4,5	5	5,5	6	6,5	7	7,5	8	8,5	9	9,5	10
DN10	Standard	D50	2	0	0	0	3,9	20,5	37,5	40	40	40	40	40	40	40	40	40	40	40
DN15	Standard	D50	2	0	0	0	3,9	20,5	37,5	40	40	40	40	40	40	40	40	40	40	40
DN20	Standard	D50	2	0	0	0	4,2	9,1	14	18,5	23,5	28,5	33,5	38	40	40	40	40	40	40
		D80	1	0	0	5,6	18	31	40	40	40	40	40	40	40	40	40	40	40	40
		125	1	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
DN32	Standard	D50	2	0	0	0	1,3	2,7	4,1	5,6	7	8,5	9,9	11	12,5	14	15,5	17	18,5	19
		D80	1	0	0	3,6	7,4	11	14,5	18,5	22	26	30	33,5	35	35	35	35	35	35
		D125	1	18,5	27,5	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35

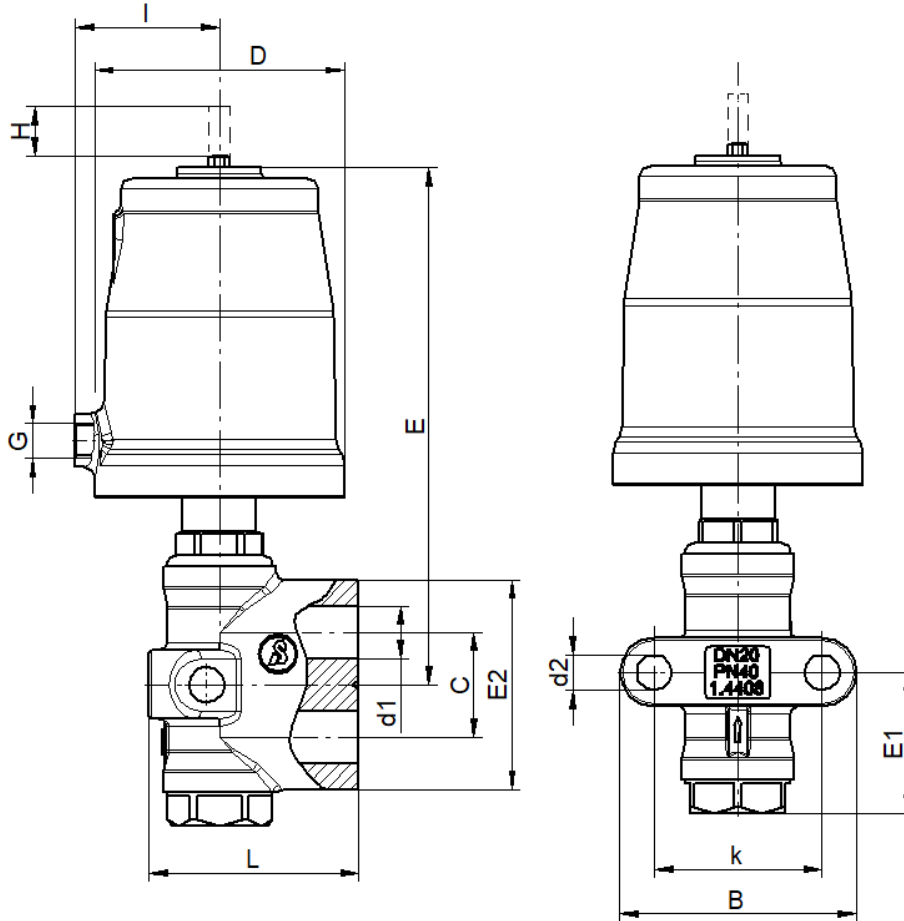
Seat seal PEEK-7 (for use below 160°C)

Nominal Size	Version	Actuator	Springs	Max. differential pressure [bar] at available pilot pressure [bar]																
				2	2,5	3	3,5	4	4,5	5	5,5	6	6,5	7	7,5	8	8,5	9	9,5	10
DN10	Standard	D50	2	0	0	0	3,9	20,5	37,5	40	40	40	40	40	40	40	40	40	40	40
DN15	Standard	D50	2	0	0	0	3,9	20,5	37,5	40	40	40	40	40	40	40	40	40	40	40
DN20	Standard	D80	1	0	0	5,6	18	31	40	40	40	40	40	40	40	40	40	40	40	40
		125	1	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
DN32	Standard	D80	2	0	0	0	2,4	6,2	9,9	13,5	17,5	21	25	28,5	32,5	35	35	35	35	35
		D125	1	18,5	27,5	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35

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Standard version

Dimensions and weights



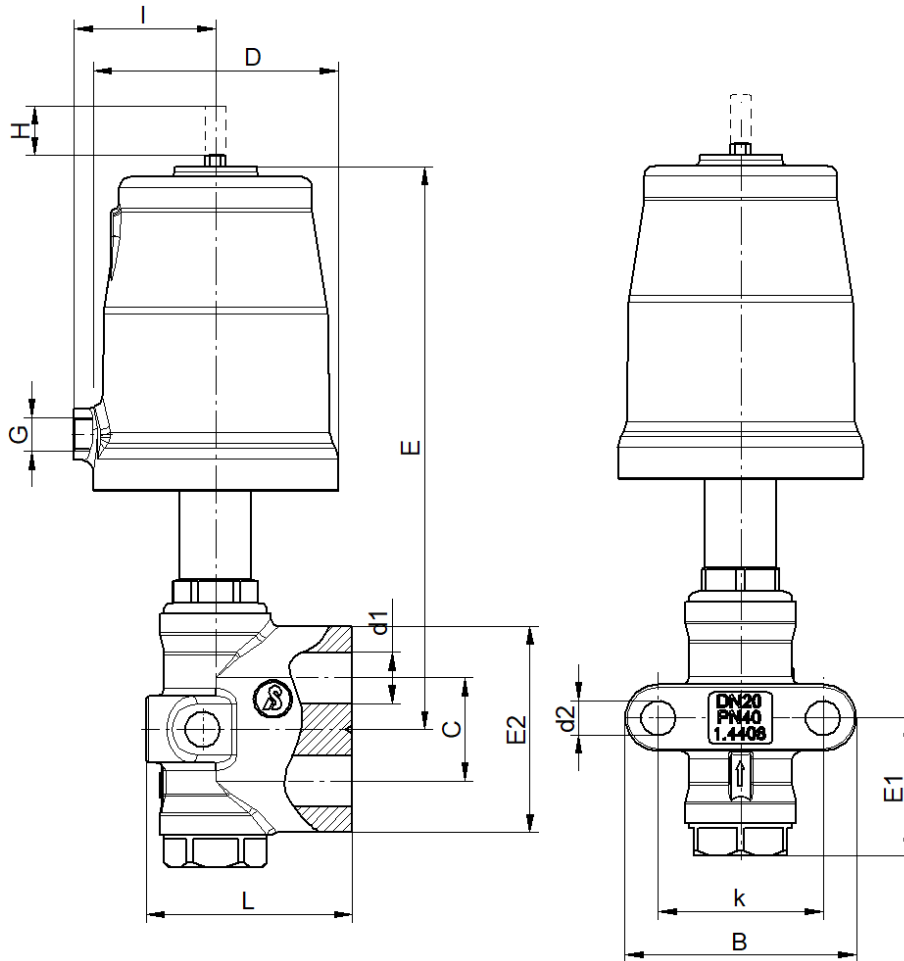
DN	Actuator	L	C	D	d1	d2	B	k	E	E1	E2	G	Stroke	I	Weight
10	50	68,5	25	62	12	13,5	84	58	154	43	52	1/8"	12	34,5	1,9
	80			(52)				191	43	1/4"		12	55	3,7	
15	50	68,5	25	62	12	13,5	84	58	154	43	52	1/8"	12	34,5	1,9
	80			(52)				191	43	1/4"		12	55	3,7	
20	50	80	40	62	20	13,5	90	64	161	54	80	1/8"	12	34,5	2,7
	80			98				198	54	1/4"		16	55	4,4	
	125			146				221	54	1/4"		16,5	80	5,6	
32	80	102,5	50	98	32	17	122	90	218	71	105	1/4"	22,5	55	6
	125			146				244	71	1/4"		22,5	80	8,2	

Dimensions in mm
Weights in kg

Pad mounted valve 7033

HT220-Version

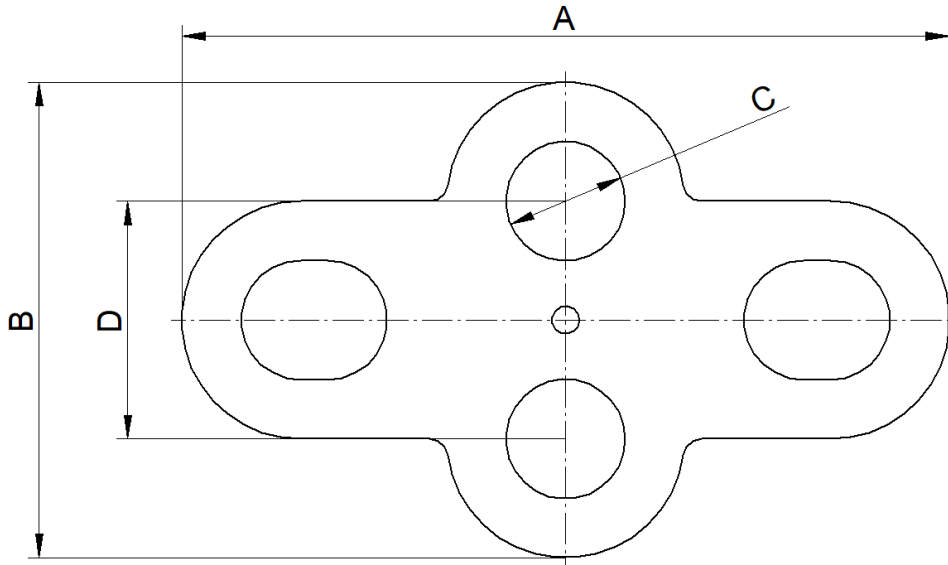
Dimensions and weights



DN	Actuator	L	C	D	d1	d2	B	k	E	E1	E2	G	Stroke	I	Weight
10	50	68,5	25	62	12	13,5	84	58	175	43	52	1/8"	12	34,5	2,6
	80			212					43	1/4"		12	55	5,1	
15	50	68,5	25	62	12	13,5	84	58	175	43	52	1/8"	12	34,5	2,6
	80			212					43	1/4"		12	55	5,1	
20	50	80	40	62	20	13,5	90	64	182	54	80	1/8"	12	34,5	3,1
	80			219					54	1/4"		16	55	4,5	
32	80	102,5	50	98	32	17	122	90	239	71	105	1/4"	22,5	55	7,8
	125			265					71	1/4"		22,5	80	9,8	

Dimensions in mm
Weights in kg

Sealing dimensions



DN	Item number	A	B	øC	D
10	4 301 345	84	52	14,5	26
15	4 301 345	84	52	14,5	26
20	4 102 797	90	80	21	26
32	4 102 798	122	105	33	32

Dimensions in mm