

Right Angle Seat Valve 7050



1/2" up to 2"

Pneumatically operated right angle seat valve for the control of neutral and aggressive liquids, steam and gases, alternative to angle seat

- Right angle space saving design
- For temperatures from -22°F up to +392°F
- Working pressure up to 580 psi
- Versatile actuator options
- ANSI class VI shut off

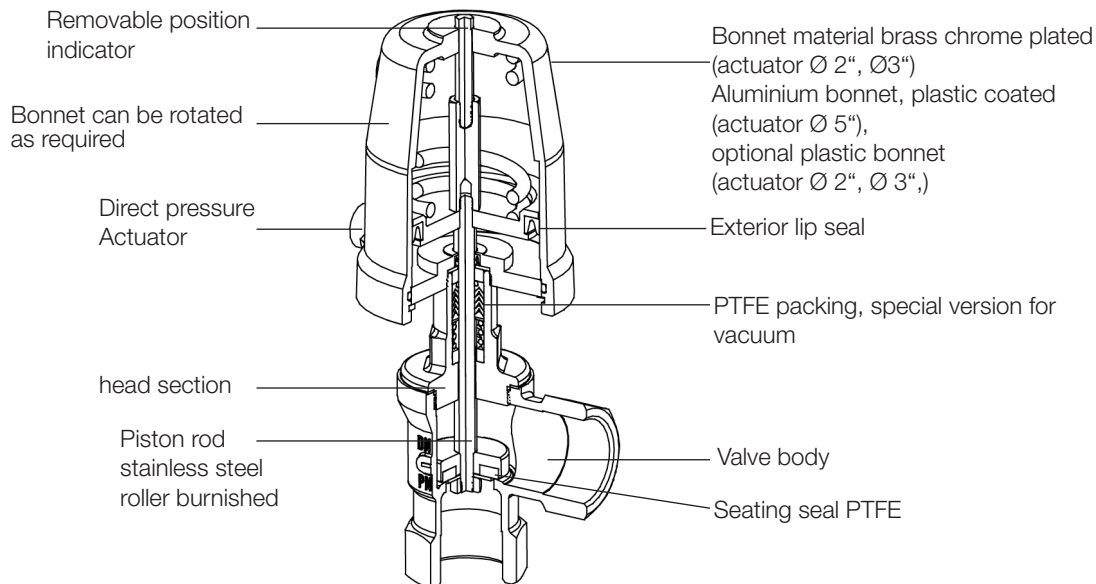
Technical Information

Nominal sizes	1/2 " up to 2"
Body material	316 L
Connection	
Pipe thread acc. DIN / ISO	1/2" - 2"
Nominal pressure	580 psi
Max. fluid temperature:	
with metal bonnet	-22°F up to +338°F, opt. +392°F
with plastic bonnet	-22°F up to +275°F
with diaphragm actuator	-22°F up to +392°F
Ambient temperature	-22°F up to +140°F
Viscosity of media	maximum 600cSt, 80°E (600 mm²/s)
Vakuum	maximum 0.0295 mercury (Hg)
Working pressure for version without cavities	maximum 175 psi



Options

- e. g.:
- limit switches
 - inductive proximity switch
 - electrical switches
 - pneumatic switches
 - pilot valves
 - manual override
 - oil and grease free version



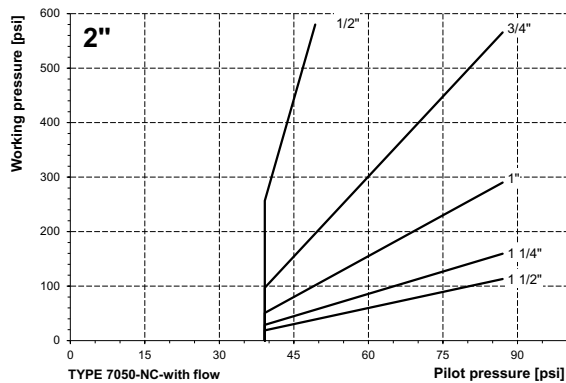
Right Angle Seat Valve 7050

standard design

Spring closes NC (closing with flow)

Normally closed angle seat valves, closing with the flow. Operates better with gases, with liquids water hammer is possible. For HT-version with actuator Ø 50 mm the pilot pressure has to be increased by 0.9 bar.

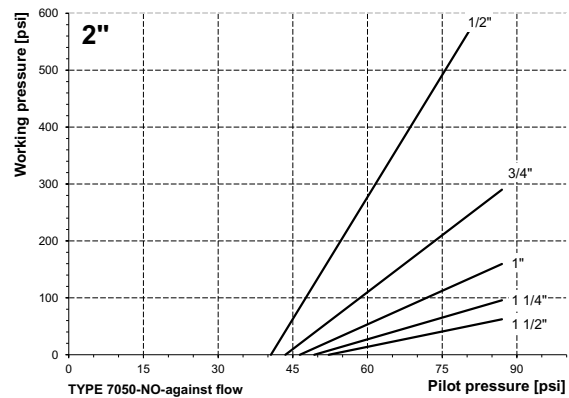
Actuator diameter 2"



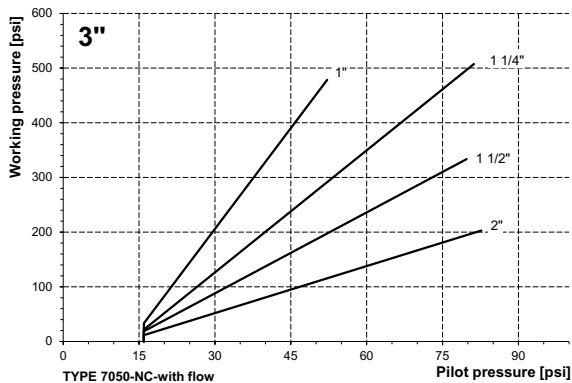
Spring opens NO (closing against flow)

Normally open angle seat valves, closing against the flow.

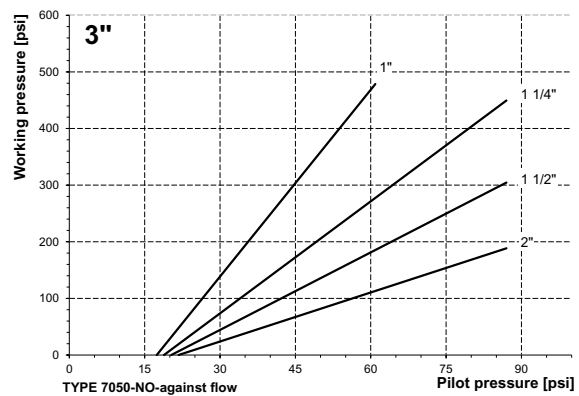
Actuator diameter 2"



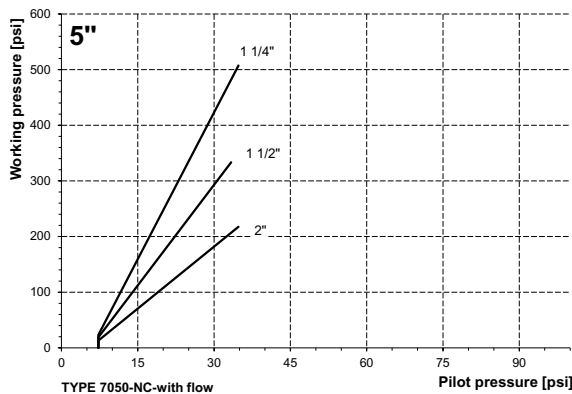
Actuator diameter 3"



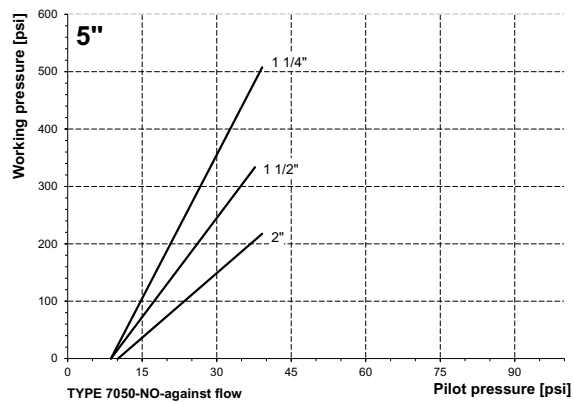
Actuator diameter 3"



Actuator diameter 5"



Actuator diameter 5"



Right Angle Seat Valve 7050

standard design

NC (closing against flow)

Nominal size in inches	max. working pressure (differential pressure)		pilot pressure [psi]	Actuator diameter (inches)	Number of springs
	[psi]	[psi]			
1/2"	5,1	220	50 - 145	2"	1
1/2"		390	65 - 145	2"	2
3/4"	5,1	75	50 - 145	2"	1
3/4"	6,5	145	65 - 145	2"	2
3/4"	8,3	230	83 - 145	2"	3
1"	5,1	35	50 - 145	2"	1
1"	6,5	80	65 - 145	2"	2
1"	8,3	130	83 - 145	2"	3
1"	5,1	290	50 - 145	3"	1
1 1/4"	6,5	45	65 - 145	2"	2
1 1/4"	8,3	75	83 - 145	2"	3
1 1/4"	5,1	160	50 - 145	3"	1
1 1/4"	6,4	230	64 - 145	3"	2
1 1/4"	8,1	305	80 - 145	3"	3
1 1/4"	1,9	145	19 - 145	5"	1

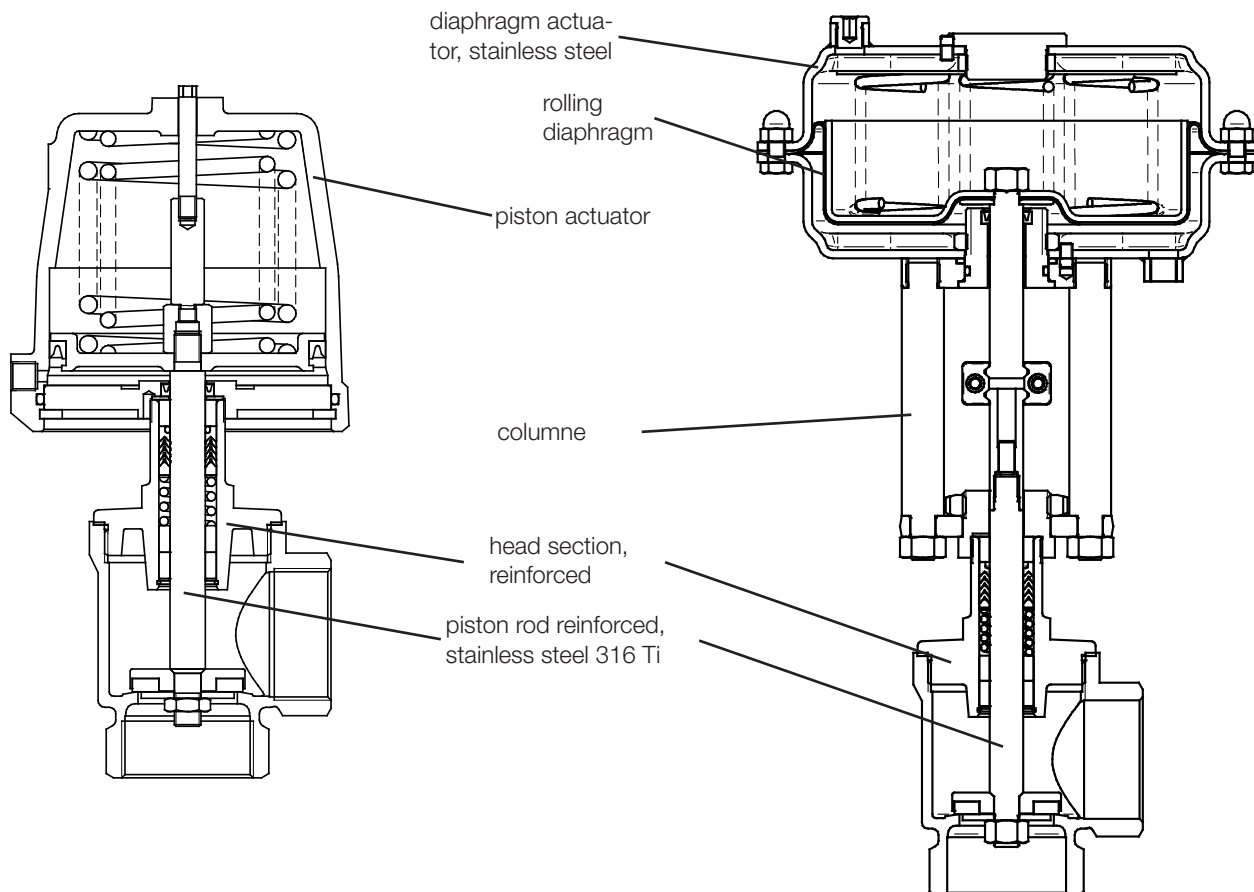
Nominal size in inches	max. working pressure (differential pressure)		pilot pressure [psi]	Actuator diameter (inches)	Number of springs
	[psi]	[psi]			
1 1/4"	320	320	32 - 145	5"	2
1 1/2"	30	30	65 - 145	2"	2
1 1/2"	50	50	83 - 145	2"	3
1 1/2"	100	100	50 - 145	3"	1
1 1/2"	140	140	64 - 145	3"	2
1 1/2"	175	175	80 - 145	3"	3
1 1/2"	90	90	19 - 145	5"	1
1 1/2"	205	205	32 - 145	5"	2
1 1/2"	290	290	45 - 145	5"	3
2"	60	60	50 - 145	3"	1
2"	85	85	64 - 145	3"	2
2"	110	110	80 - 145	3"	3
2"	125	125	32 - 145	5"	2
2"	175	175	45 - 145	5"	3

=Standard (2 springs)

Right Angle Seat Valve 7050, reinforced design

stainless steel 1 1/2" and 2"

580 psi



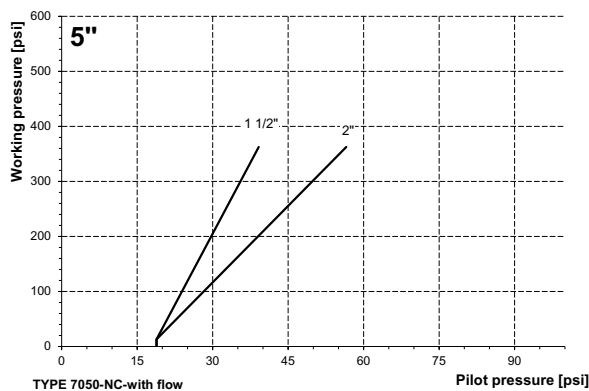
Right Angle Seat Valve 7050

reinforced design

Spring closes NC (closing with flow)

Normally closed angle seat valves, closing with the flow. Operates better with gases, with liquids water hammer is possible. For HT-version with actuator Ø 50 mm the pilot pressure has to be increased by 0.9 bar.

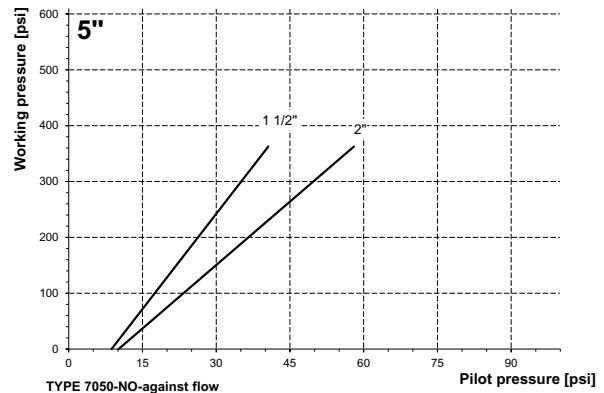
Actuator diameter 5" - a strong spring



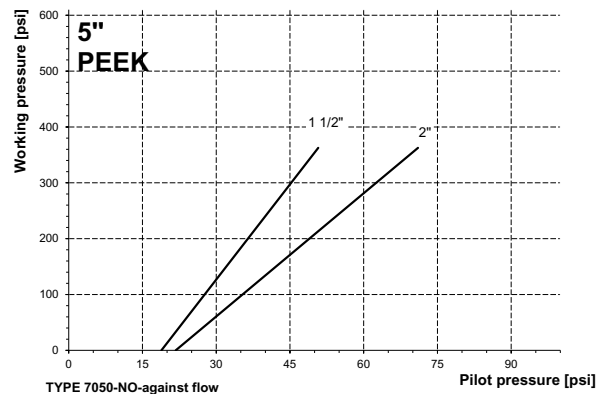
Spring opens NO (closing against flow)

Normally open angle seat valves, closing against the flow.

Actuator diameter 5"



Actuator diameter 5" - PEEK seating seal



NC (closing against flow)

Nominal size	Working pressure max. (differential pressure) psi	Pilot pressure psi	Piston Ø inch	Springs
1 1/2"	290	45 - 145	3"	3
1 1/2"	365	40 - 90	10"	8
2"	175	45 - 145	3"	3
2"	220	30 - 90	10"	6
2"	275	40 - 90	10"	8
2"	350	55 - 90	10"	12
Standard				

higher pressures on request

**SCHUBERT SALZER
INC.**

1 2 3 4 5 6 7 8 9 10 11 12
 7 0 5 0 / / / / V / / / / / / S
 Type Size Symbol: "V": Valve
 "A": Actuator (valve without body)
 "R": Repair kit (sealings)

1.	Body type	2.	Connection	3.	Body materials	4.	Seat materials	5.	Pilot function	6.	Actuator, Ø
7	Right angled seat valve	5	NPT thread	2	Stainless steel	0	PTFE (Teflon)	0	NC (closing with flow)	7	Piston 2" (NPT)
				1		FKM (Viton)	1	NO (closing against flow)	8	Piston 3" (NPT)	
				2		EPDM	2	NC (closing against flow)	9	Piston 5" (NPT)	
				3		BUNA-N (NBR)	3	Universal, double acting	D	diaphragm 10" (NPT)	
		*	others upon request								

Special versions:

...S - - - - - 3	closing cap for position indicator (actuator 2")
...S - - - - - 2	closing cap for position indicator (actuator 3", 5")
...S - - - - - 1	silicone free
...S - - - - - 5	oxygen service

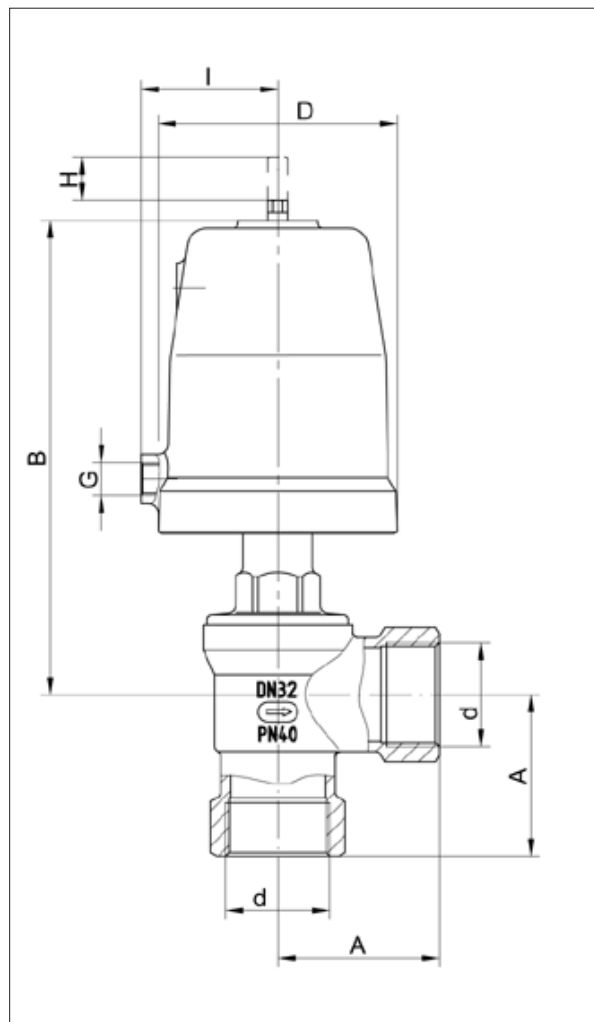
Ordering example:	7050/050V7520282 - - - 5 Right angled seat valve type 7050, size 2", Connection NPT thread , body material stainless steel, seating seal PTFE, NC closing against flow, piston 3" (NPT), two springs, stroke limitation
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Ordering example:	7050/050V75202D- - - 5S-K Right angled seat valve type 7050, size 2", Connection NPT thread , body material stainless steel, seating seal PTFE, NC closing against flow, piston 10" (NPT), three springs, stroke limitation, reinforced design
„K“ reinforced design	

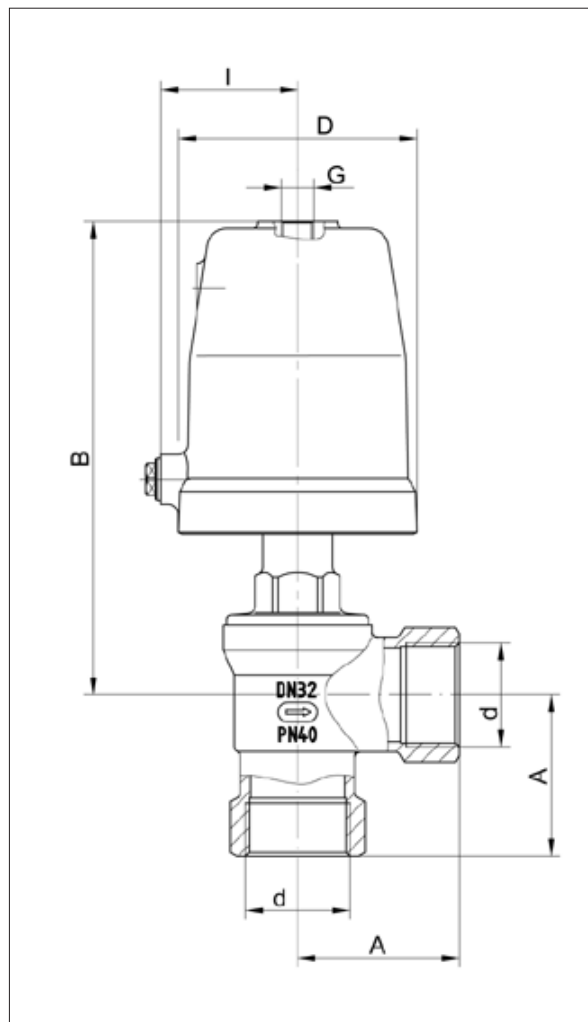
Right Angle Seat Valve 7050

standard design

Dimensions and Weights



normally closed



normally open

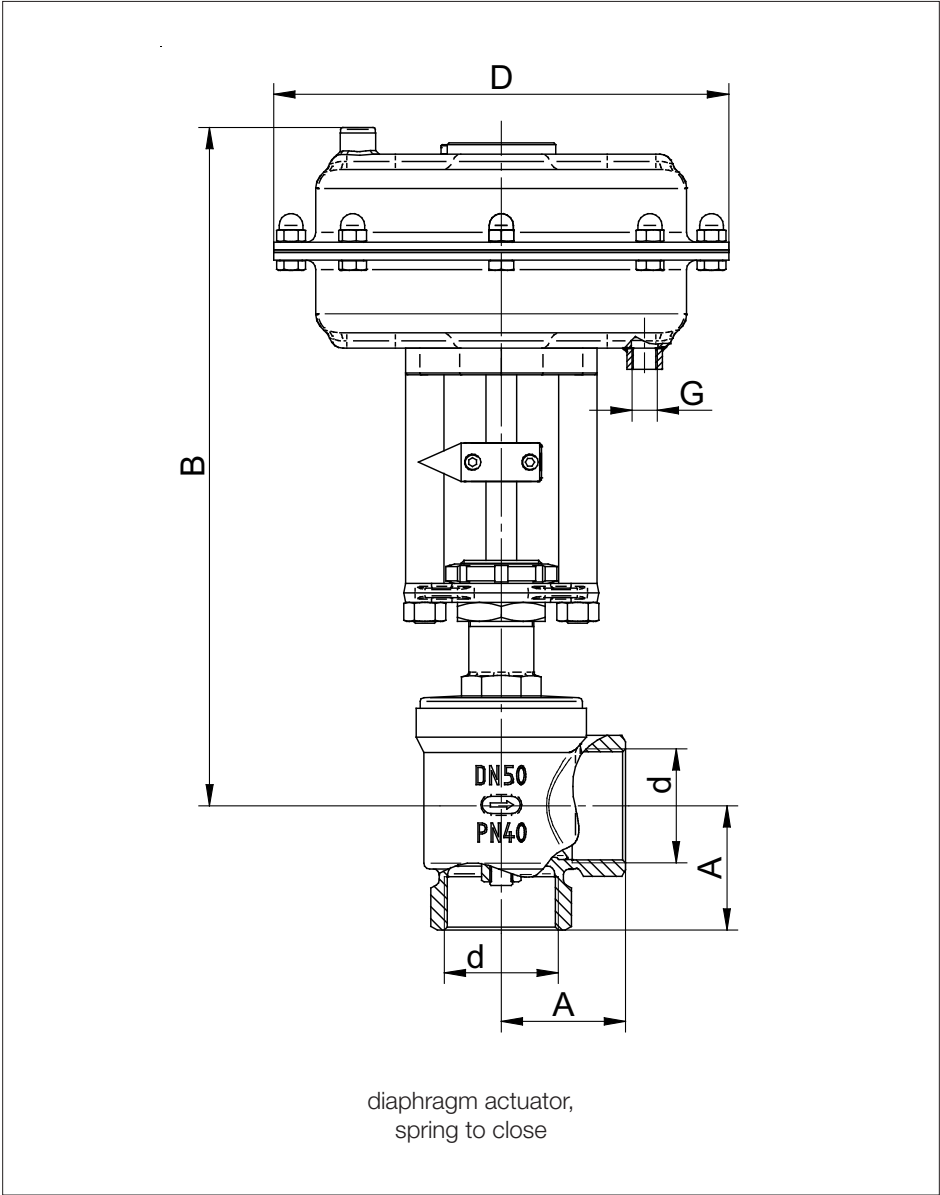
Size	Actuator	A	B	D	d	G	Stroke	I	Cv-value
1/2"	2"	1,6	5,45	2,45	1/2"	1/8"	0,45	1,35	5,9
3/4"	2"	1,6	5,5	2,45	3/4"	1/8"	0,6	1,35	13,3
1"	2"	1,6	5,55	2,45	1"	1/8"	0,6	1,35	23,2
1"	3"	1,6	7,05	3,85	1"	1/4"	0,8	2,15	23,2
1 1/4"	2"	2,55	6,05	2,45	1 1/4"	1/8"	0,6	1,35	29
1 1/4"	3"	2,55	7,6	3,85	1 1/4"	1/4"	0,9	2,15	34,8
1 1/4"	2"	2,55	8,5	5,65	1 1/4"	1/4"	0,9	2,15	34,8
1 1/2"	1"	2,55	6,3	2,45	1 1/2"	1/8"	0,6	1,35	46,4
1 1/2"	3"	2,55	7,85	3,85	1 1/2"	1/4"	1,1	2,15	52,2
1 1/2"	5"	2,55	8,8	5,65	1 1/2"	1/4"	1,1	2,15	52,2
2"	2"	2,55	8,5	3,85	2"	1/4"	1,2	2,15	---
2"	5"	2,55	9,45	5,65	2"	1/4"	1,2	2,15	---

Dimension in inch

Right Angle Seat Valve 7050

reinforced design

Dimensions and Weights



Size	Actuator	A	B	D	d	G	Stroke	Cv-value	Weight [lbs]
1 1/2"	10"	2.56	13.66	9.37	1 1/2"	G1/4"	0.98	48.7	27.5
2"	10"	2.56	13.98	9.37	2"	G1/4"	0.98	56.8	29.5

Dimension in inch