

Angle Seat Valve 7010



1/4" up to 3" 235 psi up to 580 psi

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

- Compact design
- Unaffected by lightly contaminated media
- For temperatures from -22°F up to +392°F
- Working pressure up to 580 psi
- Versatile actuator options



Technical Information

	Body material		
	Brass	Bronze	SST 316L
Nominal size	2 1/2" and 3"	1/2" - 2"	1/4" - 3"
Connections:			
NPT thread, Tri clamp	2 1/2" - 3"	1/2" - 2"	1/4" - 3"
Welding ends (ISO/SAE), Tube ends			
ANSI 150, ANSI 300			
Nominal pressure	235 psi	235 psi	580 psi
Max. fluid temperature:			
with metal bonnet	-22°F up to 338°F	-22°F up to 338°F	-22°F up to 338°F
*optional		up to +392°F	up to +392°F
with plastic bonnet	-22°F up to 275°F	-22°F up to 275°F	-22°F up to 275°F
diaphragm act., stainless steel			-22°F up to 392°F
Ambient temperature	-22°F up to +140°F		
Viscosity of the fluid	maximum 600cSt, 80°F (600 mm²/s)		
Vacuum	maximum 0.0295 mercury (Hg)		
Working pressure for inverted packing	maximum 175 psi		
Working pressure for Tri-Clamp connection	maximum 235 psi		

Options

- limit switches
 - inductive proximity switches
 - electrical limit switches
- solenoid valves
- manual override
- O2-cleaned version
- PTFE-free version (PEEK)

Normally closed

Normally open

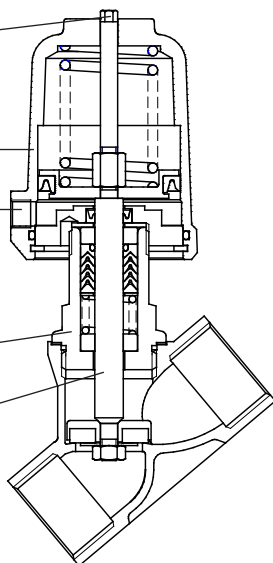
Removable position indicator

Actuator can be rotated as required

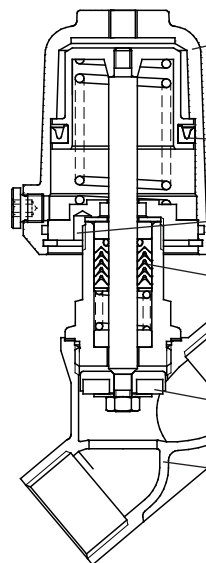
Direct pressure control (with a pilot valve if required) actuation by air, water and other media

Head Section

Piston rod stainless steel 316Ti, „roller burnished“



Actuator material chrome plated brass (diameter 2" and 3")
316 SS (diameter 2" and 3" and 5")
Aluminium (diameter 5")
Polymer (diameter 2" and 3")



Exterior lip sealing

Leak detector

Spring loaded PTFE packing

Seating seal in PTFE and other materials

Body

Angle Seat Valve 7010, standard design

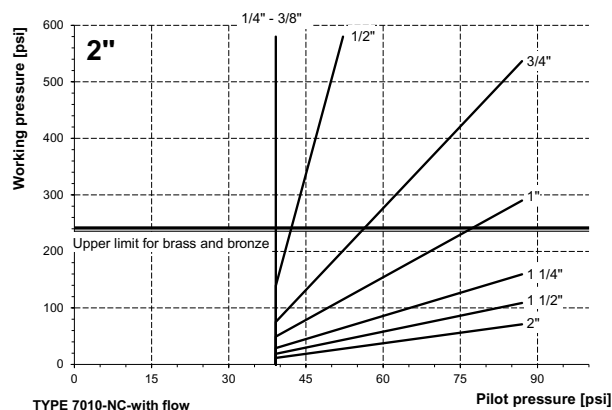


metal and stainless steel actuator

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.

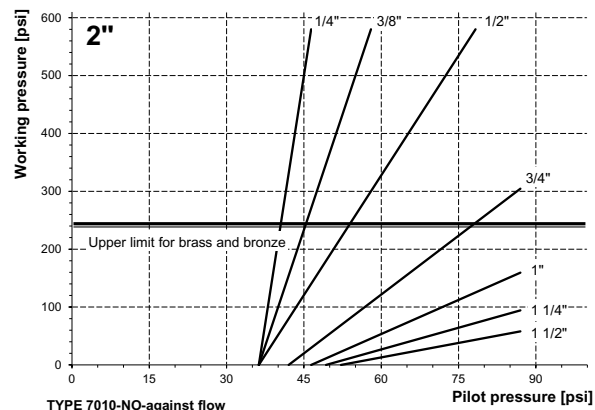
Actuator diameter 2"



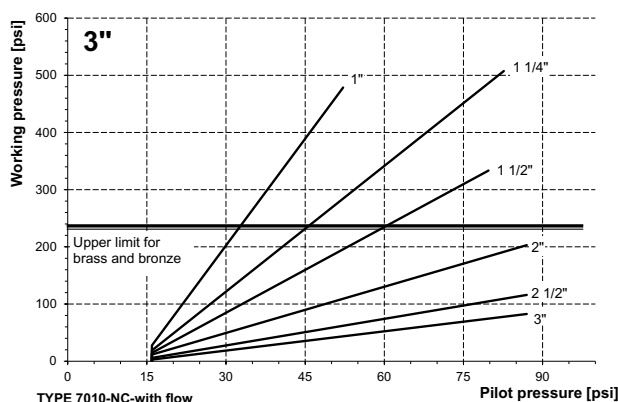
Spring opens NO (closing against flow)

Normally open angle seat valves, closing against the flow.

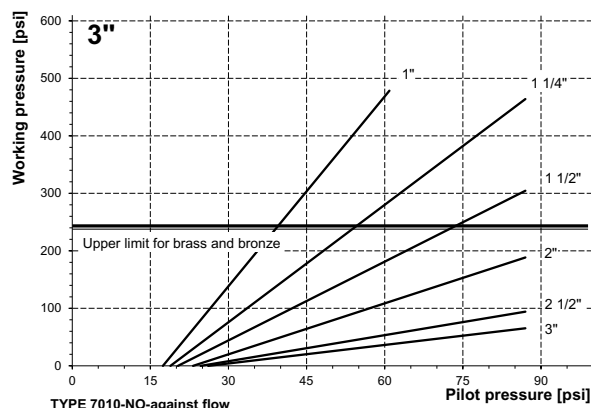
Actuator diameter 2"



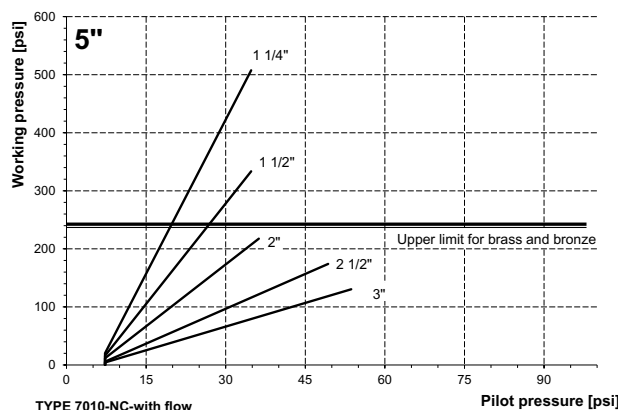
Actuator diameter 3"



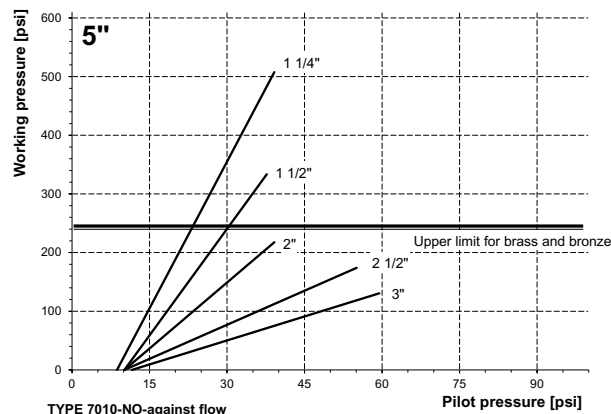
Actuator diameter 3"



Actuator diameter 5"



Actuator diameter 5"



Angle Seat Valve 7010, standard design

Normally closed angle seat valves, closing against the flow (operating with fluids).

Metal and stainless steel actuator

Nominal size	Working pressure (i.e. Differential) psi		Pilot pressure psi	Piston Ø inch	Springs
	stainless steel	bronze			
1/4" (8)	580	-	50 - 145	2"	1
3/8" (10)	580	-	50 - 145	2"	1
1/2" (15)	320	230	50 - 145	2"	1
3/4" (20)	100	100	50 - 145	2"	1
3/4" (20)	190	190	65 - 145	2"	2
3/4" (20)	275	230	85 - 145	2"	3
1" (25)	35	35	50 - 145	2"	1
1" (25)	85	85	65 - 145	2"	2
1" (25)	130	130	85 - 145	2"	3
1" (25)	320	230	50 - 145	3"	1
1 1/4" (32)	15	15	50 - 145	2"	1
1 1/4" (32)	45	45	65 - 145	2"	2
1 1/4" (32)	75	75	85 - 145	2"	3
1 1/4" (32)	175	175	50 - 145	3"	1
1 1/4" (32)	245	230	65 - 145	3"	2
1 1/4" (32)	320	230	85 - 145	3"	3
1 1/4" (32)	160	160	20 - 145	5"	1
1 1/4" (32)	335	230	30 - 145	5"	2

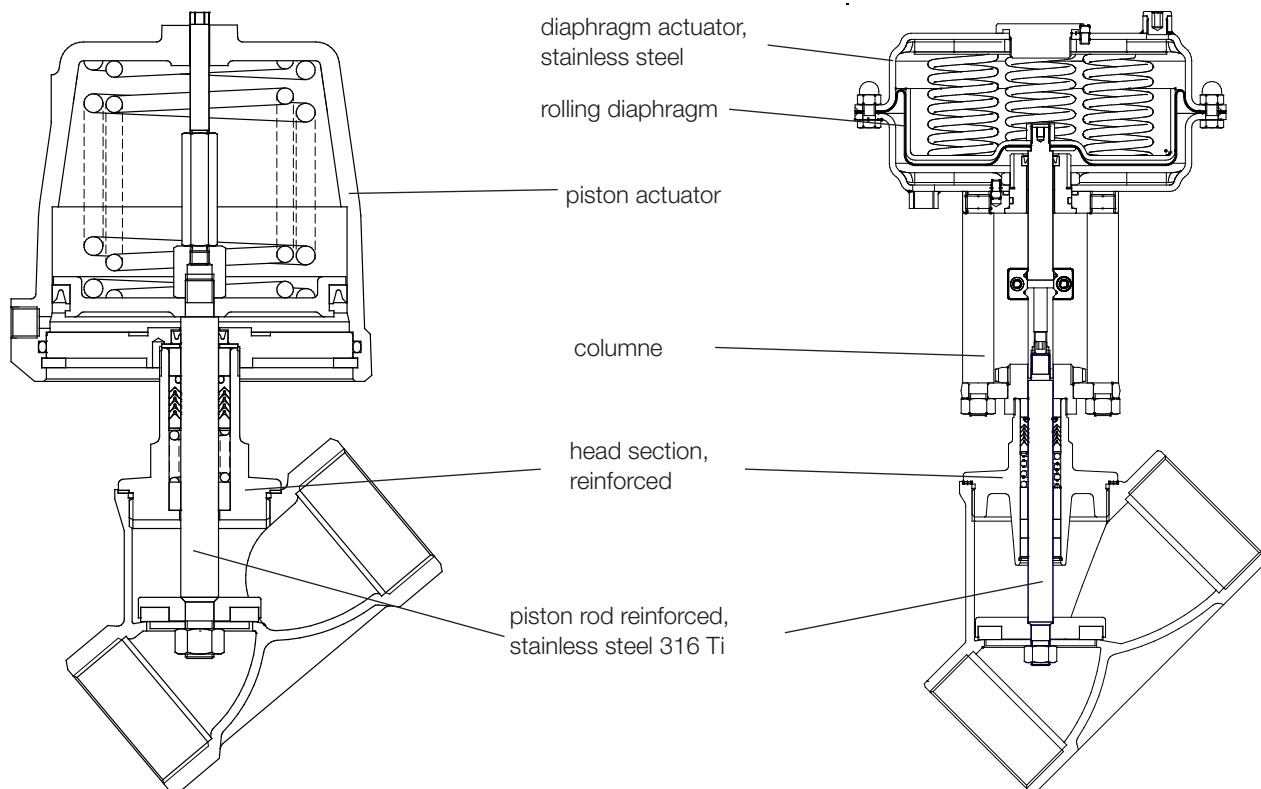
Nominal size	Working pressure (i.e. Differential) psi		Pilot pressure psi	Piston Ø inch	Springs
	stainless steel	bronze brass			
1 1/2" (40)	30	30	65 - 145	2"	2
1 1/2" (40)	50	50	80 - 145	2"	3
1 1/2" (40)	100	100	50 - 145	3"	1
1 1/2" (40)	145	145	65 - 145	3"	2
1 1/2" (40)	190	190	80 - 145	3"	3
1 1/2" (40)	100	100	20 - 145	5"	1
1 1/2" (40)	220	220	30 - 145	5"	2
1 1/2" (40)	305	230	45 - 145	5"	3
2" (50)	60	60	50 - 145	3"	1
2" (50)	85	85	65 - 145	3"	2
2" (50)	110	110	80 - 145	3"	3
2" (50)	125	125	30 - 145	5"	2
2" (50)	190	190	45 - 145	5"	3
2 1/2" (65)	60	55 *	80 - 145	3"	3
2 1/2" (65)	75	65 *	30 - 145	5"	2
2 1/2" (65)	100	90 *	45 - 145	5"	3
3" (80)	**	65 *	45 - 145	5"	3

* brass body
** reinforced design

Standard

Angle Seat Valve 7010, reinforced design

stainless steel 2" up to 3" 580 psi

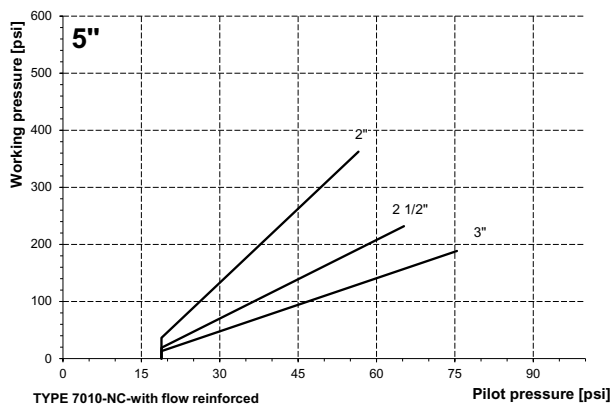


Angle Seat Valve 7010, reinforced design

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.

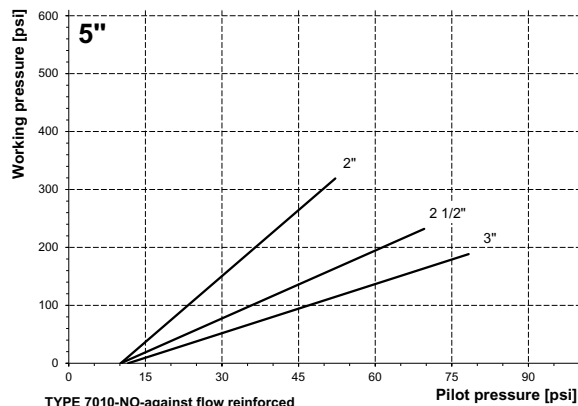
Piston actuator diameter 5" - a strong spring



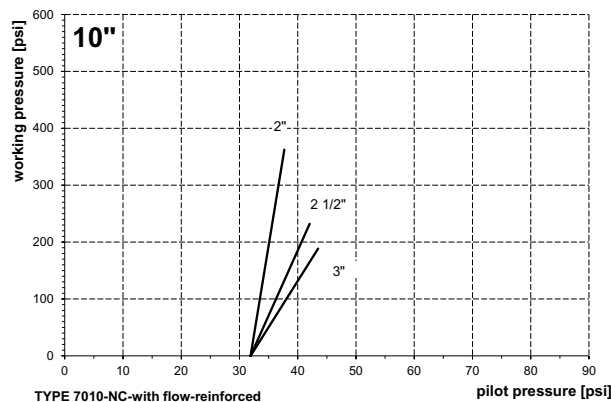
Spring opens NO (closing against flow)

Normally open angle seat valves, closing against the flow.

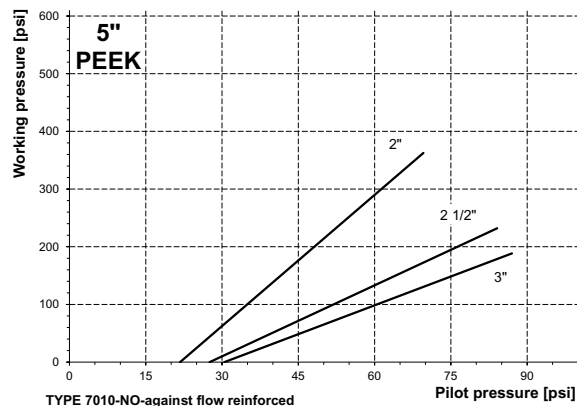
Piston actuator diameter 5"



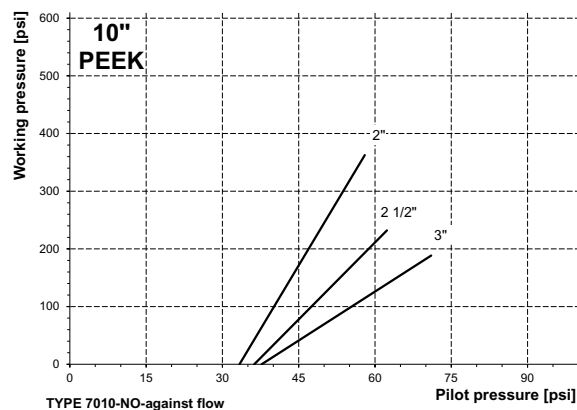
Diaphragm actuator diameter 10"



Piston actuator diameter 5" PEEK seating seal



Diaphragm actuator diameter 10" PEEK seating seal



higher pressures on request

SCHUBERT & SALZER
INC.

1 2 3 4 5 6 7 8 9 10 11 12
 7 0 1 0 / / / / V / / S

Type Size Symbol:

"V": Valve
 "A": Actuator (valve without body)
 "R": Repair kit (sealings)

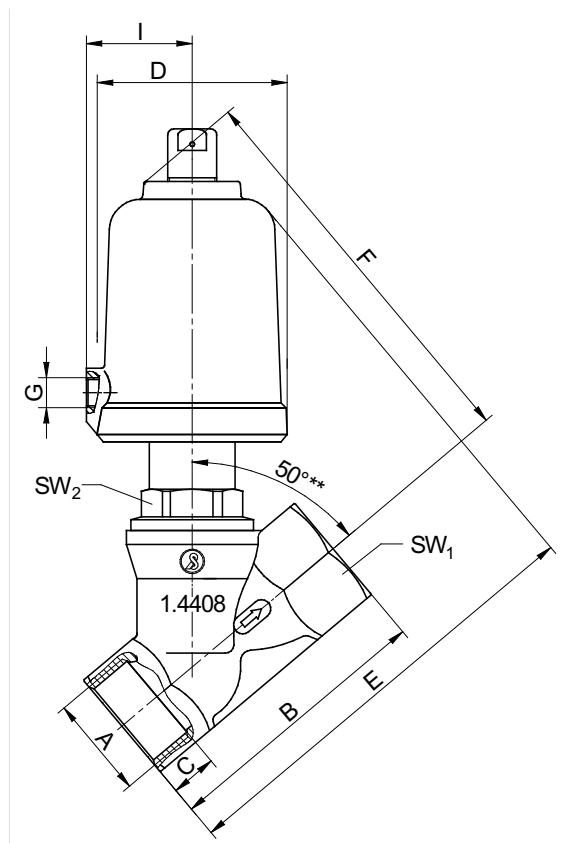
7 - 12: Quote only if required.

Ordering example:	7010/050V152028----5 2" angle seat valve, NPT connection, stainless steel body, PTFE seat, N.C., actuator size 3", stroke limitation.
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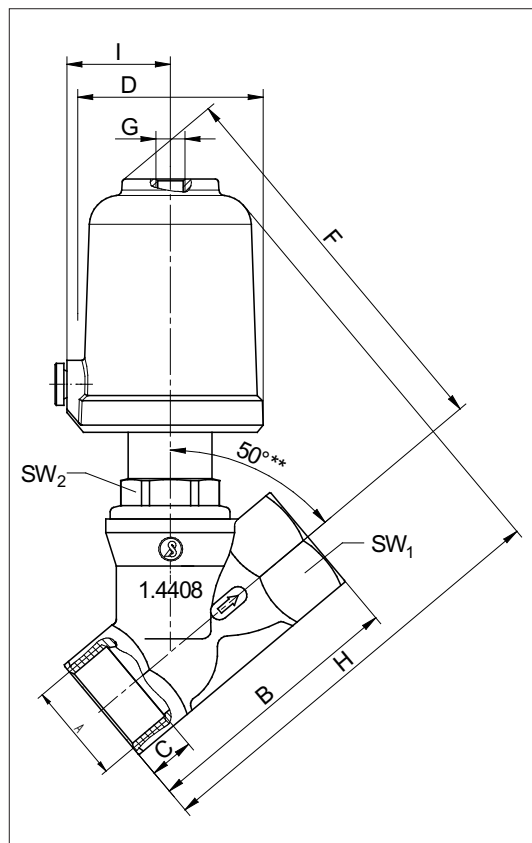
For Angle Seat Valve with plastic actuator please see data sheet 7012.

Angle Seat Valve 7010, standard design

Dimensions and Weights



Normal closed



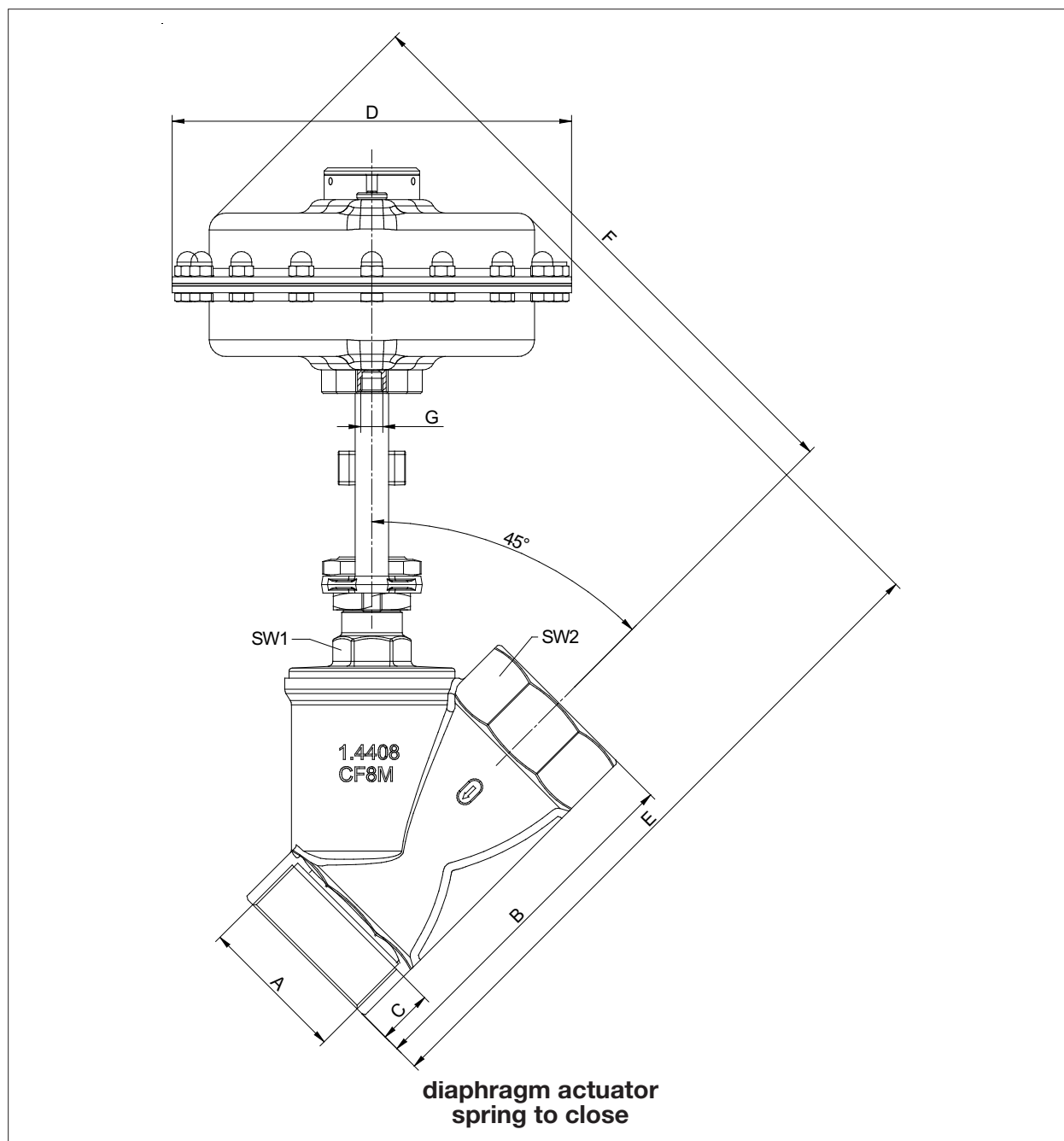
Normal open

Size	actuator diameter	A Rp/NPT	B		C	D	E		F	G	H	I	SW1		SW2		Cv-values		weight (lbs)
			bronze SST	brass			bronze SST	brass			(stroke)		bronze SST	brass	stand.	reinfor.	bronze SST	brass	
1/4"	2"	1/4"	2.35	-	0.45	2.45	5.1	-	4.85	G1/8"	0.33	1.35	0.8	-	1.2	-	1.1	-	2.2
3/8"	2"	3/8"	2.35	-	0.45	2.45	5.1	-	4.85	G1/8"	0.35	1.35	0.9	-	1.2	-	1.9	-	2.31
1/2"	2"	1/2"	2.55	-	0.6	2.45	5.3	-	4.7	G1/8"	0.28	1.35	1	-	1.2	-	4.1	-	2.42
3/4"	2"	3/4"	2.95	-	0.65	2.45	5.3	-	4.9	G1/8"	0.47	1.35	1.2	-	1.2	-	9.3	-	2.64
1"	2"	1"	3.55	-	0.75	2.45	5.7	-	5.1	G1/8"	0.63	1.35	1.55	-	1.2	-	17.4	-	3.08
1"	3"	1"	3.55	-	0.75	3.8	7.3	-	6.7	G1/4"	0.63	2.15	1.55	-	1.2	-	18.6	-	6.6
1 1/4"	2"	1 1/4"	4.35	-	0.85	2.45	6.3	-	5.7	G1/8"	0.63	1.35	1.9	-	1.2	-	24.4	-	3.96
1 1/4"	3"	1 1/4"	4.35	-	0.85	3.8	7.85	-	7.5	G1/4"	0.79	2.15	1.9	-	1.2	-	27.8	-	7.26
1 1/4"	5"	1 1/4"	4.35	-	0.85	5.75	9.05	-	8.45	G1/4"	0.79	3.15	1.9	-	1.2	-	27.8	-	12.1
1 1/2"	2"	1 1/2"	4.7	-	0.85	2.45	6.5	-	5.9	G1/8"	0.63	1.35	2.15	-	1.2	-	34.8	-	4.62
1 1/2"	3"	1 1/2"	4.7	-	0.85	3.8	8.05	-	7.7	G1/4"	0.91	2.15	2.15	-	1.2	-	40.6	-	7.92
1 1/2"	5"	1 1/2"	4.7	-	0.85	5.75	9.25	-	8.65	G1/4"	0.91	3.15	2.15	-	1.2	-	40.6	-	12.76
2"	2"	2"	5.9	-	1	2.45	7.3	-	6.3	G1/8"	0.63	1.35	2.7	-	1.25	-	46.4	-	5.94
2"	3"	2"	5.9	-	1	3.8	8.85	-	7.85	G1/4"	1.14	2.15	2.7	-	1.25	1.4	63.8	-	9.24
2"	5"	2"	5.9	-	1	5.75	9.85	-	8.85	G1/4"	1.14	3.15	2.7	-	1.25	1.4	63.8	-	14.08
2 1/2"	3"	2 1/2"	7.1	7.1	1.2	3.8	10.25	10.25	8.65	G1/4"	1.14	2.15	3.35	3.35	1.4	1.6	92.8	107.9	13.64
2 1/2"	5"	2 1/2"	7.1	7.1	1.2	5.75	11.2	11.2	9.85	G1/4"	1.14	3.15	3.35	3.35	1.4	1.6	92.8	107.9	18.48
3"	3"	3"	-	8.25	1.3	3.8	-	11	8.85	G1/4"	1.14	2.15	-	3.95	1.6	1.6	-	133.4	18.26
3"	5"	3"	-	8.25	1.3	5.75	-	12	9.85	G1/4"	1.14	3.15	-	3.95	1.6	1.6	-	133.4	23.1

Dimension in inch

Angle Seat Valve 7010, reinforced design

Dimensions and Weights



Size	Actuator	A Rp/NPT	B*	C	D	E	F	G	Stroke (inch)	SW1	SW2	α	cv-value	Weight (lbs)
2"	10"	2"	5.91	1.01	9.37	13.31	12.72	G1/4"	0.98	2.68	1.26	50°	63.8	32
2 1/2"	10"	2 1/2"	7.09	1.19	9.37	14.41	13.62	G1/4"	0.98	3.35	1.61	45°	92.8	34.5
3"	10"	3"	8.27	1.31	9.37	16.02	13.78	G1/4"	0.98	3.94	1.61	45°	-	39

Dimension in inch