

Flanged Control Valve

7037



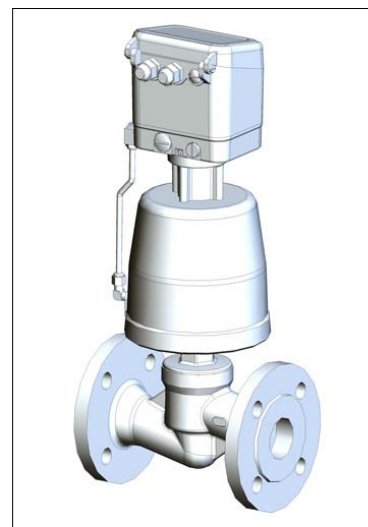
1/2" up to 2", 580 psi

Pneumatically operated control valves for neutral through to highly aggressive media.

- Integrated positioner
- Compact design
- All parts contacting the fluid made from stainless steel
- Temperatures up to 392°F
- Working pressure up to 580 psi

Technical Information

Nominal sizes	1/2" up to 2"
Body material	CF8M
Connection	Flanges acc. ANSI B16.5-Class 150 or DIN EN 1092-1
Dimensions	Acc. ANSI/ISA-75.08.01 or DIN EN 558-1 Row 1
Pipe thread acc. DIN/ISO	1/2" - 2"
Nominal pressure	580 psi
Media temperature	-22°F up to +392°F



Options

- e. g.:
- Optical position indicator
 - External i/p-converter Type 8045
 - Ex-i/p-Stellungsregler (II 2 G EEx ib IIC T6)
 - inductive limit switches

pneumatical positioner Type 8047
pneumatical positioner Type 8047
digital positioner Type 8049

position indicator
PA Trogamid (clear)

springs

exterior lip sealing

valve stem stainless
steel 316Ti,
roller burnished

head section

bonnet brass plated
(actuator 2", 3")
aluminium, corrosion protected
(actuator 5"),
optional plastic
(actuator 2", 3")
stainless steel by request

packing from filled PTFE
(carbon filled), special version
for reduced hollow spaces
(packing underneath)

body in stainless steel
CF8M

seating seal PTFE and
other materials



Flanged Control Valve 7037, standard design with integrated positioner



Materials

Body	Stainless steel 316 L
Seating seal	PTFE
Bonnet	Brass chrome plated (actuator Ø 3") Aluminium (actuator Ø 5") Bonnet in stainless steel available, if desired
Actuator springs	Stainless steel 301 (actuator Ø 3") Spring steel wire C, zinc coated (actuator Ø 5")
Packing	PTFE (carbon filled), spring SST 301
Valve stem	Stainless steel 316 Ti, roller burnished
Positioner body	Brass, chrome plated (p/p-version), Brass/aluminium (i/p-version) aluminium anodized (digital-version)
Position indicator	PA Trogamid (clear)

Positioner

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

Admissible Differential Pressures

digital positioner

Size	Pressure	Supply pressure range	Piston Ø	Spring configuration
	psi	psi	inch	Number
1/4"	235	60 - 90	3"	2 *
1/2"	235	60 - 90	3"	2
3/4"	235	60 - 90	3"	2
1"	235	60 - 90	3"	1
1 1/4"	145	60 - 90	3"	1
1 1/4"	235	45 - 90	5"	2
1 1/2"	85	60 - 90	3"	1
1 1/2"	235	60 - 90	5"	3

* special springs

p/p- and i/p-positioner

Size	Pressure	Supply pressure Range	Piston Ø	Spring configuration
	psi	psi	inch	Number
1/4"	235	60 - 90	3"	2 *
1/2"	235	60 - 90	3"	2
3/4"	235	60 - 90	3"	2
1"	175	60 - 90	3"	1
1 1/4"	100	60 - 90	3"	1
1 1/4"	190	45 - 90	5"	2
1 1/2"	60	60 - 90	3"	1
1 1/2"	160	60 - 90	5"	3

* special springs

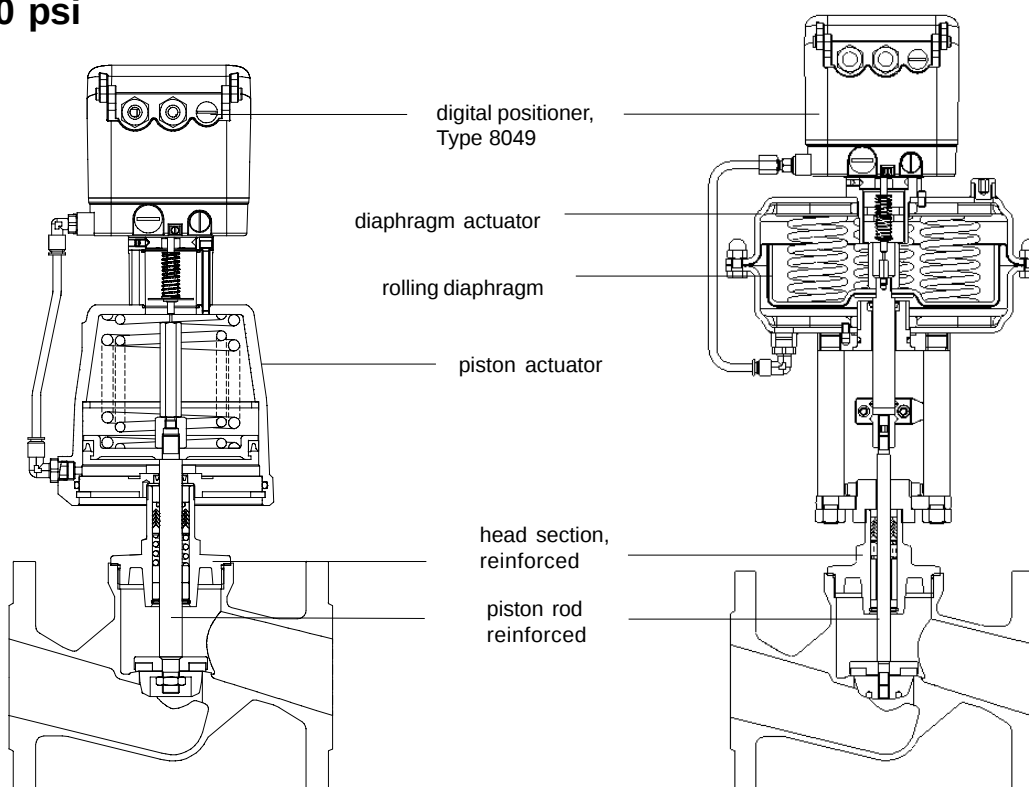
diaphragm actuator direct pressure range

Size	Maximum pressure (psi)		Supply air (psi)		Diaphragm area
	spring range		spring range		inch
	3 - 15 psi	6 - 29 psi	3 - 15 psi	6 - 29 psi	
1/2"	235	235	20	35	10"
3/4"	235	235	20	35	10"
1"	130	235	20	35	10"
1 1/4"	75	220	20	35	10"
1 1/2"	45	145	20	35	10"
2"	30	90	20	35	10"

Flanged Control Valve 7037, reinforced design with integrated positioner



2", 580 psi



Admissible Pressures

digital positioner

Size	Max. pressure (psi)		Supply pressure range	Piston Ø	Spring configuration
	PTFE	PEEK	psi	inch	Number
2"	45	-	60 - 90	3"	1
2"	130	45	60 - 90	5"	3
2"	175	75	45 - 90	10"	6
2"	230	145	60 - 90	10"	8
2"	230	230	60 - 90	10"	12

i/p-positioner p/p-positioner

Size	Differential pressure (psi)	Supply pressure range	Piston Ø	Springs
	PTFE	psi	inch	number
2"	29	60 - 90	3"	1
2"	87	60 - 90	5"	3
2"	174	60 - 90	10"	10
2"	232	60 - 90	10"	12

Cv- Values (valid for standard and reinforced design)

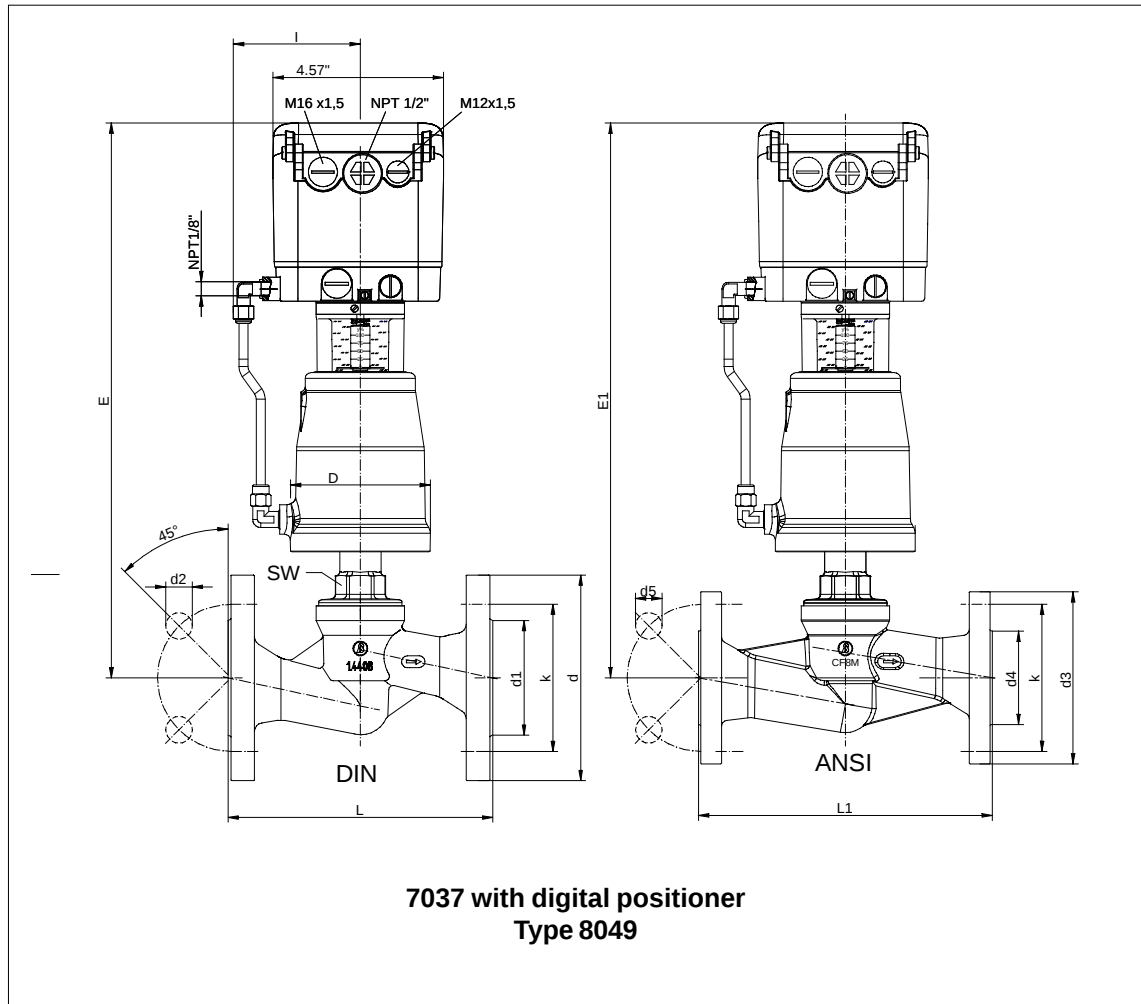
Nominal size	linear						equal percentage					
	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
100 %	3.7	6.7	12.5	18.6	25.5	38.9	3.5	6.3	11.6	18	23.2	-
63 %	-	4.1	-	11.6	15.3	23.3	-	3.8	-	10.8	13.9	-
40 %	1.5	2.7	5	7.4	10.2	15.5	1.5	2.6	1.2	7.2	9.3	-
25 %	0.9	-	3.1	-	-	-	0.9	-	2.9	-	-	-

Flanged Control Valve 7037

piston actuator

with integrated positioner

Dimensions and Weights



Nominal size	Actuator	L	L1	D	d	d1	d2	d3	d4	d5	k	k1	E	E1	G	I	SW
1/2"	3"	5.12	7.24	3.86	3.74	1.77	0.55	3.5	1.38	0.62	2.56	2.38	13.89	13.89	1/4"	2.17	1.18
3/4"	3"	5.91	7.24	3.86	4.13	2.28	0.55	3.88	1.69	0.62	2.95	2.75	14.07	14.07	1/4"	2.17	1.18
1"	3"	6.3	7.24	3.86	4.53	2.68	0.55	4.25	2	0.62	3.35	3.12	14.74	14.74	1/4"	2.17	1.18
1 1/4"	3"	7.09	7.87	3.86	5.51	3.07	0.71	4.62	2.5	0.62	3.94	3.5	14.9	14.9	1/4"	2.17	1.18
1 1/4"	5"	7.09	7.87	5.67	5.51	3.07	0.71	4.62	2.5	0.62	3.94	3.5	15.7	15.7	1/4"	2.17	1.18
1 1/2"	3"	7.87	8.74	3.86	5.91	3.46	0.71	5	2.88	0.62	4.33	3.88	15.13	15.13	1/4"	2.17	1.18
1 1/2"	5"	7.87	8.74	5.67	5.91	3.46	0.71	5	2.88	0.62	4.33	3.88	15.94	15.94	1/4"	2.17	1.18

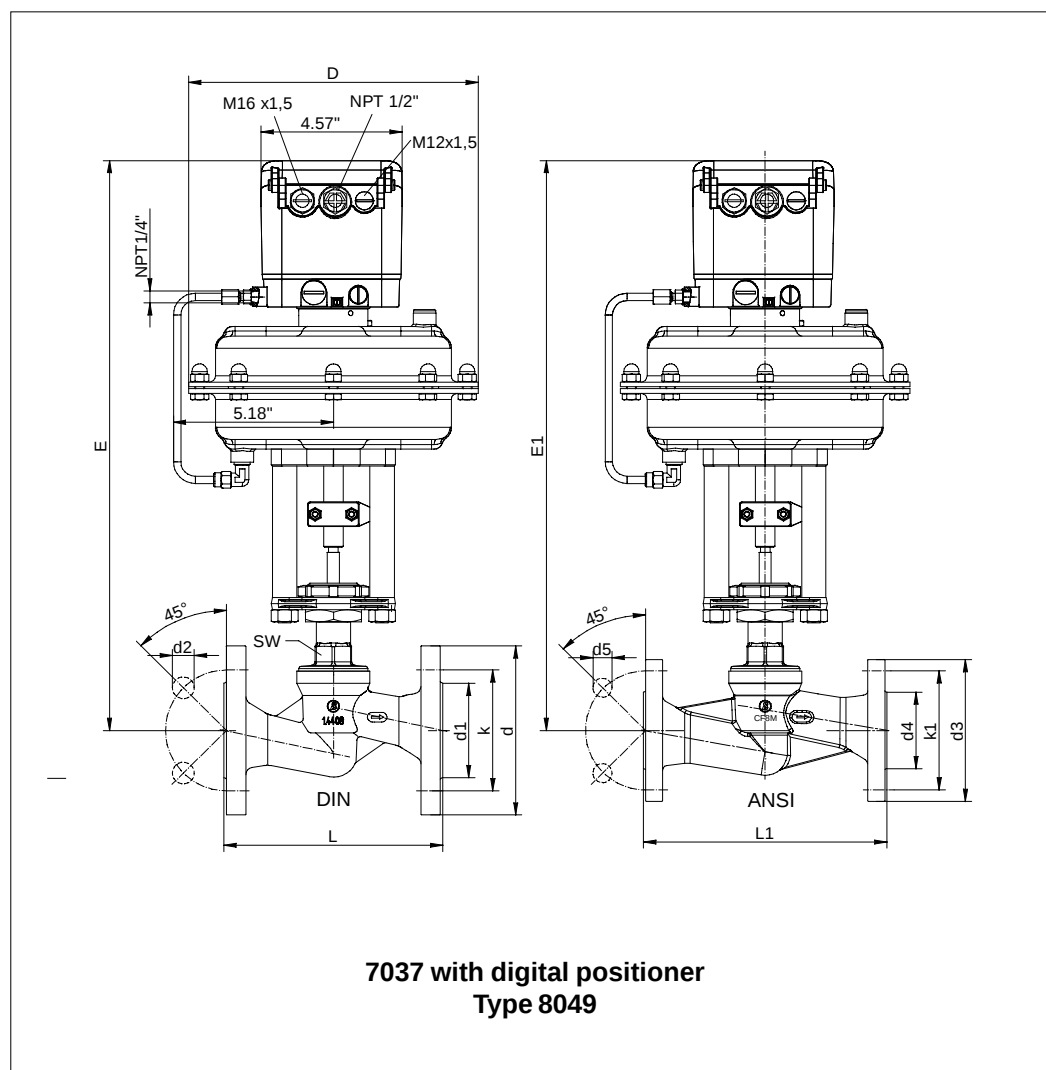
Dimensions in inch

Flanged Control Valve 7037

diaphragm actuator

with integrated positioner

Dimensions and Weights



Nominal size	Actuator	L	L1	D	d	d1	d2	d3	d4	d5	k	k1	E	E1	G	SW
1/2"	5"	5.12	7.24	9.37	3.74	1.77	0.55	3.5	1.38	0.62	2.56	2.38	17.56	17.6	1/4"	1.18
3/4"	5"	5.91	7.24	9.37	4.13	2.28	0.55	3.88	1.69	0.62	2.95	2.75	17.74	17.74	1/4"	1.18
1"	5"	6.3	7.24	9.37	4.53	2.68	0.55	4.25	2	0.62	3.35	3.12	18.41	18.41	1/4"	1.18
1 1/4"	5"	7.09	7.87	9.37	5.51	3.07	0.71	4.62	2.5	0.62	3.94	3.5	18.57	18.56	1/4"	1.18
1 1/2"	5"	7.87	8.74	9.37	5.91	3.46	0.71	5	2.88	0.62	4.33	3.88	18.8	18.8	1/4"	1.42
2" *	5"	9.06	10	9.37	6.5	4.02	0.71	6	3.62	0.75	4.92	4.75	20.01	19.74	1/4"	1.42

*reinforced version

Dimensions in inch