



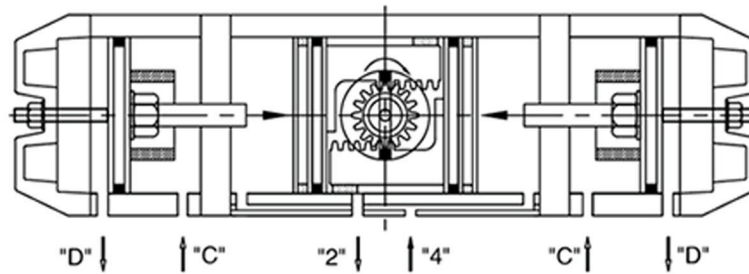
## Pneumatic Actuator (3 positions) - Three Position Pneumatic Actuator

### Design

Three positions actuator provide an operation of  $0^\circ, 45^\circ, 90^\circ$  or  $0^\circ, 90^\circ, 180^\circ$ . The midway position is adjustable and is achieved by a mechanical stop of movement on the two auxiliary pistons. Following is the operating principle:

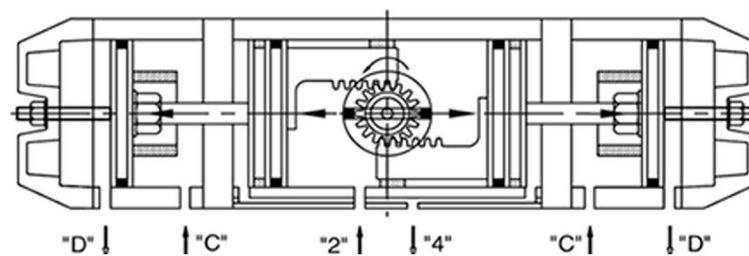
#### 1, Fully closed position

From following chart we can see that this position is obtained when air is supplied to port 4 and port 2 is in the state of exhaust air.



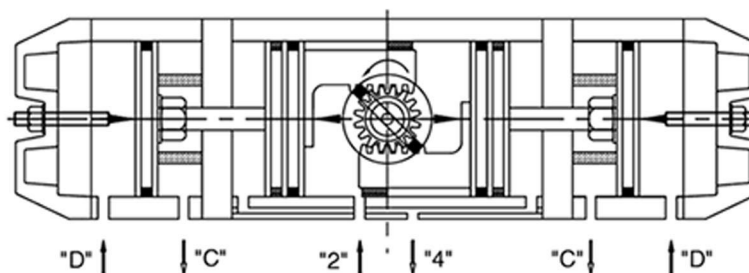
#### 2, Fully open position

From following chart we can see that this position is obtained when air is supplied to port 2 and port C, mean time port 4 and port D are in the state of exhaust air.



#### 3, Midway position

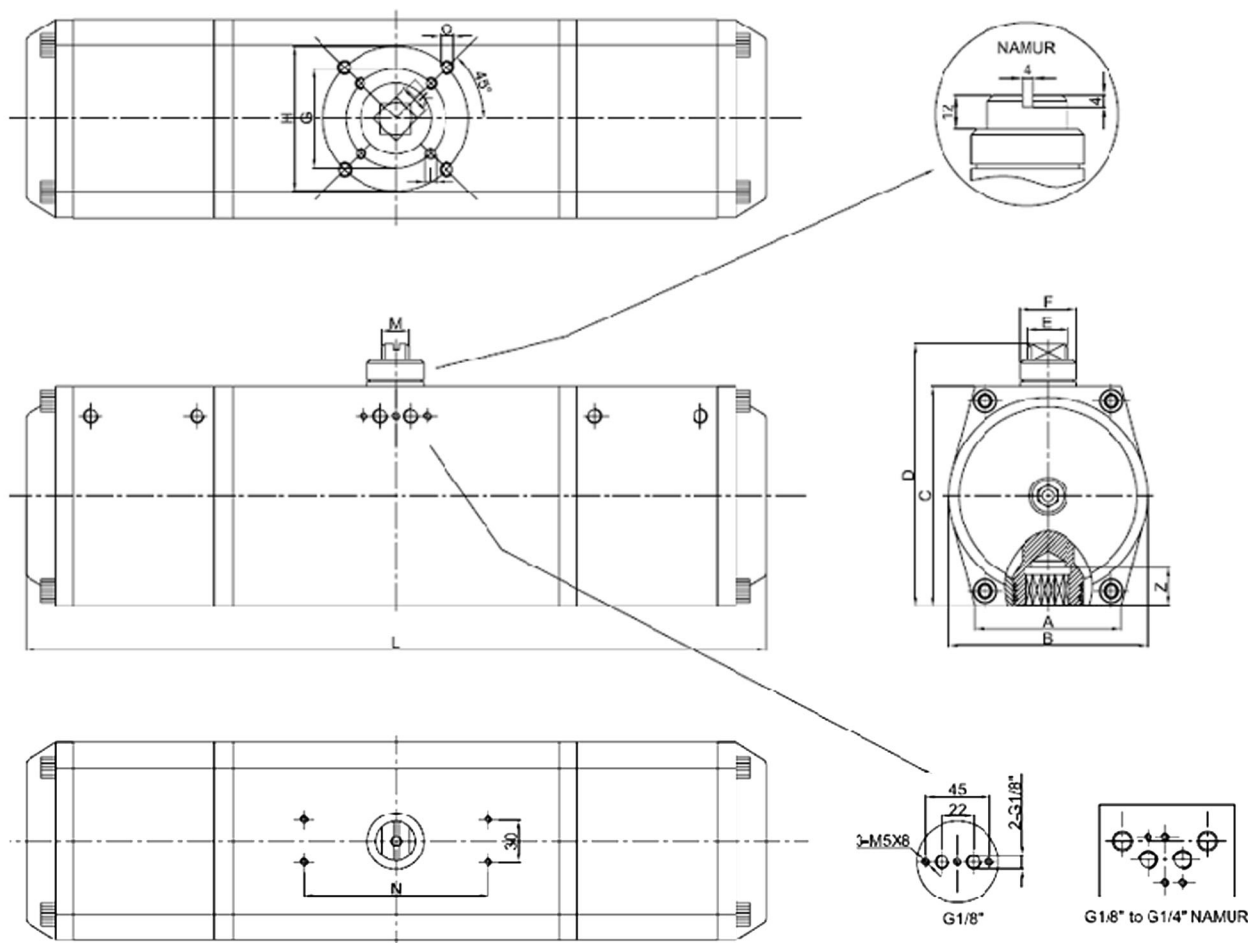
From following chart we can see that this position is obtained when air is supplied to port 2 and port D, mean time port 4 and port C are in the state of exhaust air. In fact that the midway position is achieved by a mechanical stop of movement on the two auxiliary pistons.





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### Dimension



unit:mm

Model	A	B	C	D	E	F	G	H	I	K	L	M	N	O	Z	Air Connection
B-63	60	72	88	118	12	18	∅50	∅70	M6x10	14	322	10	80	M8x13	18	G1/8"
B-75	65	83	100	130	12	18	∅50	∅70	M6x10	14	338	10	80	M8x13	18	G1/8"
B-92	76	104	120	150	18	25	∅50	∅70	M6x10	17	432	14	80	M8x13	21	G1/8"
B-125	103.5	140	155	185	28	40	∅70	∅102	M8x13	22	522	20	130	M10x16	26	G1/4"(1/4"NPT)
B-160	128	175.8	197	227	36	40	∅102	∅125	M10x16	27	708	28	130	M12x20	31	G1/4"(1/4"NPT)