



**Description** Pneumatic double-piston rotary actuator in rack & pinion design with self-centering pistons; double- and single-acting execution

**Materials** Stainless steel AISI 304 or AISI 316

**ATEX marking** II 2 G Ex h IIC T6...T3 Gb  
II 2 D Ex h IIIC 170°C Db

**Temperature range** Standard: -20°C bis +80°C  
Low temperature version: -40°C bis +80°C  
High temperature version: -10°C bis +150°C

**Control pressure** 2 to 8 bar

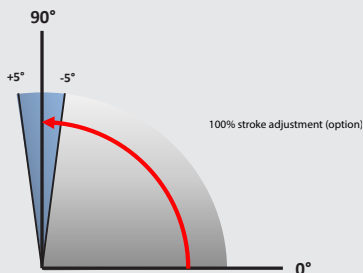
**Pressure media** dry, filtered air or inert gases in respect of remaining oil-, dust and water-content according to DIN ISO 8573-1 / class 4, maximum particle diameter 30µm, dew point minimum 10°C below ambient temperature

**Standards** Interface actuator/feedback-unit: VDI/VDE 3845 resp. NAMUR

Interface actuator/control media supply: VDI/VDE 3845 resp. NAMUR

Interface actuator/valve: ISO 5211 and DIN 3337

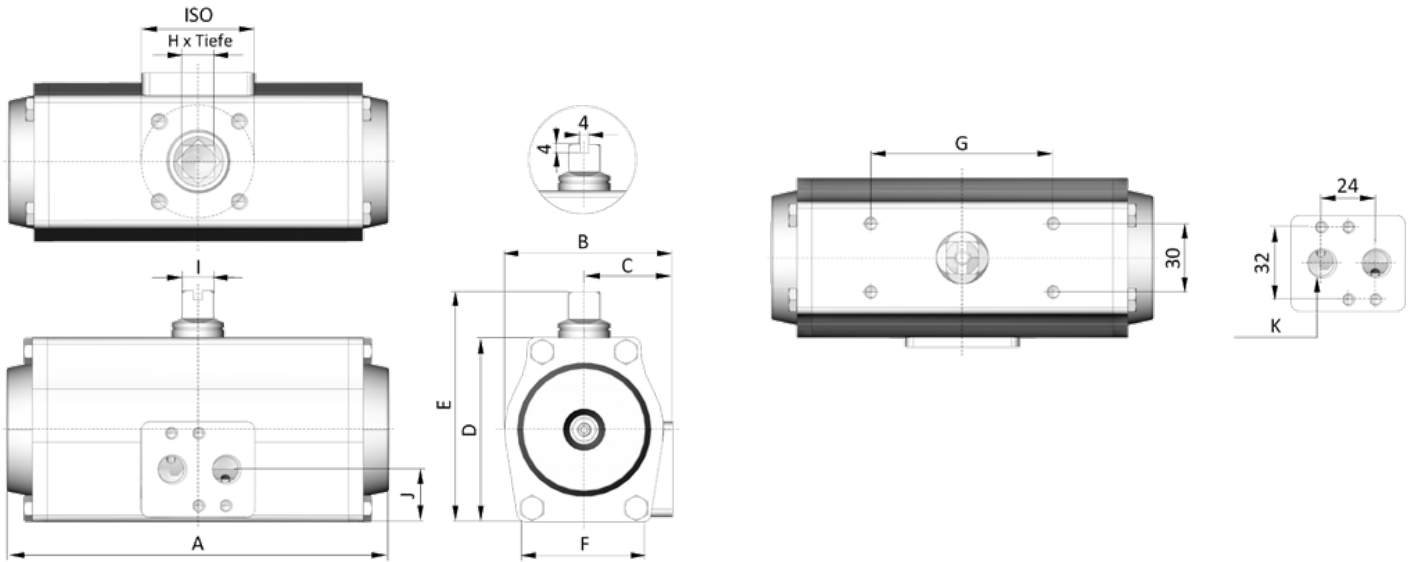
**Nominal rotation angle** 90°  
Adjustable in switch position +/-5°, (optional 100% stroke adjustment)



## Typecode

	PT	E	4A	060	/	090	12	F05	V	14	F
<b>Type</b>											
<b>Function</b>											
	D: double-acting E: single-acting										
<b>Stainless steel Type</b>											
	2A: AISI 304 4A: AISI 316										
<b>Size</b>											
<b>Rotation angle</b>											
	Rotation angle in degree										
<b>Spring set</b>											
<b>ISO valve interface</b>											
<b>Stem connection</b>											
	V: Square acc. to ISO 5211 and DIN 3337										
<b>Stem connection dimensions</b>											
	Dimension in mm										
<b>Mounting direction</b>											
	E: transversal to pipe, rotation sense CW F: parallel to pipe, rotation sense CW G: transversal to pipe, rotation sense CCW H: parallel to pipe, rotation sense CCW										

## Dimensions



A	B	C	D	E	F	G	ISO	H	I	J	K
167	78	43	81	111	58	80	F05	14x18	16	23	G1/4"

## Weight, volume

Weight (kg)	double-acting	3,9
	single-acting	4,1

Volume (l)	double-acting	0,4
	single-acting	0,2

## Torques double-acting

Torque in Nm at control pressure in bar (g)													
2	2,5	3	3,5	4	4,5	5	5,5	6	6,5	7	7,5	8	
14,2	17,8	21,3	24,9	28,4	32,0	35,5	39,1	42,6	46,2	49,7	53,3	56,8	

## Torques single-acting

Spring set		Torque spring stroke in Nm		Torque in Nm at control pressure in bar (g)																
				3		3,5		4		4,5		5		5,5		6		7		8
		max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max	min	max
5	10,4	6,8	14,2	10,3																
6	12,5	8,2	12,7	8,1	16,2	11,7														
7	14,6	9,6	11,2	5,9	14,8	9,5	18,3	13,0												
8	16,7	10,9	9,8	3,7	13,4	7,3	16,9	10,8	20,5	14,4	24,0	17,9								
9	18,8	12,3			11,9	5,1	15,4	8,6	19,0	12,2	22,5	15,7	26,1	19,3	29,6	22,8				
10	20,9	13,7					14,0	6,4	17,6	10,0	21,1	13,5	24,7	17,1	28,2	20,6	35,3	27,7	42,4	34,8
11	22,9	15,0							16,2	7,8	19,7	11,3	23,3	14,9	26,8	18,4	33,9	25,5	41,0	32,6
12	25,0	16,4									18,2	9,1	21,8	12,7	25,3	16,2	32,4	23,3	39,5	30,4