

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

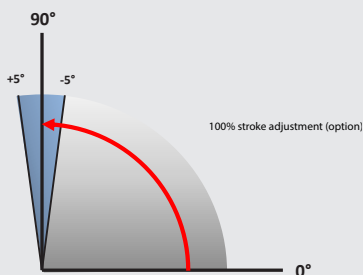
Pressure media dry, filtered air or inert gases in respect of remaining oil-, dust and water-content according to DIN ISO 8573-1 / class 4, maximum particle diameter 30µm, dew point minimum 10°C below ambient temperature

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

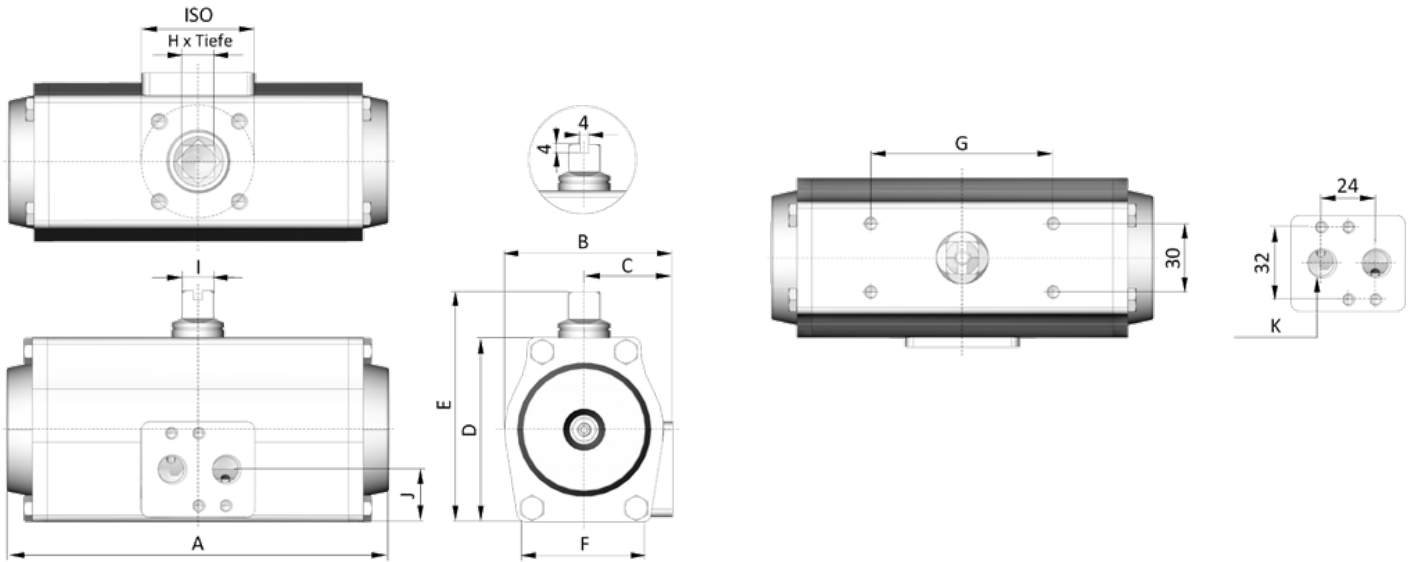
Nominal rotation angle 90°
Adjustable in switch position +/-5°, (optional 100% stroke adjustment)



Typecode

	PT	E	4A	140	/	090	12	F10/F12	V	27	F
Type											
Function	D: double-acting E: single-acting										
Stainless steel Type	2A: AISI 304 4A: AISI 316										
Size											
Rotation angle	Rotation angle in degree										
Spring set											
ISO valve interface											
Stem connection	V: Square acc. to ISO 5211 and DIN 3337										
Stem connection dimensions	Dimension in mm										
Mounting direction	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
360	154	78	172	202	112	130	F10 + F12	27x31	22	34	G1/4"

Weight, volume

Weight (kg)	double-acting	24,8
	single-acting	27,3

Volume (l)	double-acting	5,6
	single-acting	2,4

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
175	219	263	307	351	395	439	482	526	570	614	658	702

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	min	
5	129,0	85,8	172,6	127,2																	
6	154,8	102,9	154,6	100,1	198,7	144,2															
7	180,5	120,1	136,6	73,0	180,6	117,0	224,6	161,0													
8	206,3	137,3	118,5	45,8	162,5	89,8	206,5	133,8	250,5	177,8	294,5	221,8									
9	232,1	154,4			144,5	62,7	188,5	106,7	232,5	150,7	276,5	194,7	320,0	238,2	363,5	281,7					
10	257,9	171,6					170,4	79,5	214,4	123,5	258,4	167,5	301,9	211,0	345,4	254,5	433,4	342,5	521,4	430,5	
11	283,7	188,7							196,8	96,9	240,3	140,4	283,8	183,9	327,3	227,4	415,3	315,4	503,3	403,4	
12	309,5	205,9									222,3	113,2	265,8	156,7	309,3	200,2	397,3	288,2	485,3	376,2	