Stellantriebe und Zubehör
Systeme
Automatik-Armaturen

Pneumatic
Twin piston actuator

Standard version

System design:	Pneumatic twin piston actuator type GTD = double-acting type GTE = single-acting (spring return)
Construction features:	Rack-and-pinion technique with self-centering piston guidance in casing; single-acting: with bar safety springs
Installation position:	Random
Standards:	**Interface actuator/valve:** Four or eight female threads in the casing acc. to DIN EN ISO 5211 **Interface actuator/control valve:** Acc. to NAMUR or VDI/VDE 3845 **Interface actuator/signal units:** Acc. to VDI/VDE 3845 (NAMUR)
Materials:	**Casing:** anodized aluminium alloy **Caps:** aluminium alloy epoxy coated, type GTD/GTE-048 : plastics, epoxy lacquered **Piston/ aluminium alloy, toothed rack:** aluminium alloy, type GTD/GTE-048 + 058: plastics **Shaft:** steel, hard nickel plated **Gaskets:** NBR (buna N) **Bearings:** easy sliding plastics
Ambient temperature	- 20 bis + 95°C
Nominal pivoting angle	Double-acting: 90°, 120°, 180°, 240° Single-acting: 90° Adjustable nominal pivoting angle from + 5 to – 5 ° GTD/GTE-048 not adjustable
Torques	3 to 8000 Nm
Control pressure	2 to 10 bar
Control medium/ quality	Filtered air; minimum requirements of DIN ISO 8573-1/ class 4 apply for residual oil, dust and water content

Type GTD/GTE

Picture:

Special feature optional:

- 3 position actuators with two extra pistons
- alternative fastening and fitting dimensions
- shaft with inner double-D
- surface treated with epoxy resin
- chemical version on demand
- shaft stainless steel
- gaskets FKM (Viton)
- temperature –40 to +160°C
- alternative pivoting angles (e. g. 135°)
- limit adjustment for both pivoting directions, type BE
- 3 position actuators: 0 °-90°-180°, 0°-120°-240°
- 3 position actuators with spring-centered central position
- 1 to 16 bar upon request
- can be operated with other non-aggressive, gaseous or fluid media upon request

actuator dimensions

Type of actuator	A1	A2	A3	B	C^{H11}xdepth	Dxdepth	E	F	Gxdepth	Ø H	K	L	M	N	Ø R	S	SW^{H11}	T^{H9}	U	V	Z
GTD / GTE-048	117	—	—	46	9x12	M 6x9	95	10	M 5x8	12	80	36	42	16	12	10	9	23,8	2	61	12,1
GTD / GTE-058	134	150	194	50	11x19	M 6x9	104	18	M 5x8	14	80	36	50	16	12	10	14	23,8	2	68	14,1
GTD / GTE-068	138	154	188	60	11x19	M 8x12	118	18	M 6x9	14	80	50	70	16	12	10	14	25,3	2	79	14,1
GTD / GTE-078	161	182	235	65	11x19	M 8x12	130	19	M 6x9	14	80	50	70	16	18	10	17	29,3	2	92	14,1
GTD / GTE-088	180	204	268	67	14x25	M 8x12	138	19	M 6x9	14	80	50	70	16	18	10	17	32,3	2	100	18,1
GTD / GTE-098	204	236	310	70	17x30	M 8x12	147	19	M 6x9	19,5	80	50	70	16	25	14	17	37,3	2	110	22,2
GTD / GTE-110	222	252	323	90	17x30	M 10x15	170	25	M 8x12	19,5	80	70	102	16	25	14	22	40,3	2,5	..—	22,2
GTD / GTE-115	292	—	426	90	17x30	M 10x15	170	25	M 8x12	28	80	70	102	16	40	20	22	53,3	2,5	—	22,2
GTD / GTE-127	298	348	448	103	22x39	M 10x15	190	25	M 8x12	28	80	70	102	16	40	20	22	53,3	3	—	28,2
GTD / GTE-143	337	—	—	110	22x39	M 12x18	228	27	M 10x15	28	130	102	125	16	40	20	27	53,3	3	—	28,2
GTD / GTE-163	377	439	565	110	27x48	M 12x18	228	27	M 10x15	36	130	102	125	11	45	28	27	66,3	3	—	36,2
GTD / GTE-185	420	—	—	135	27x48	—	285	40	M 16x24	36	130	140	—	11	45	28	36	66,3	4	—	36,2
GTD / GTE-210	462	538	690	135	36x64	—	285	40	M 16x24	40	130	140	—	11	60	32	36	79,3	4	—	48,2
GTD / GTE-250	603	705	905	160	46x82	—	332	50	M 20x28	40	130	165	—	11	60	32	46	105,3	4	—	60,2
GTD / GTE-254	683	809	—	160	46x82	—	332	50	M 20x28	40	130	165	—	11	60	32	46	134	4	—	60,2
GTD / GTE-300	683	—	—	160	—	—	420	62	M 16x24	40	130	254	—	11	74	32	55	134	5	—	—

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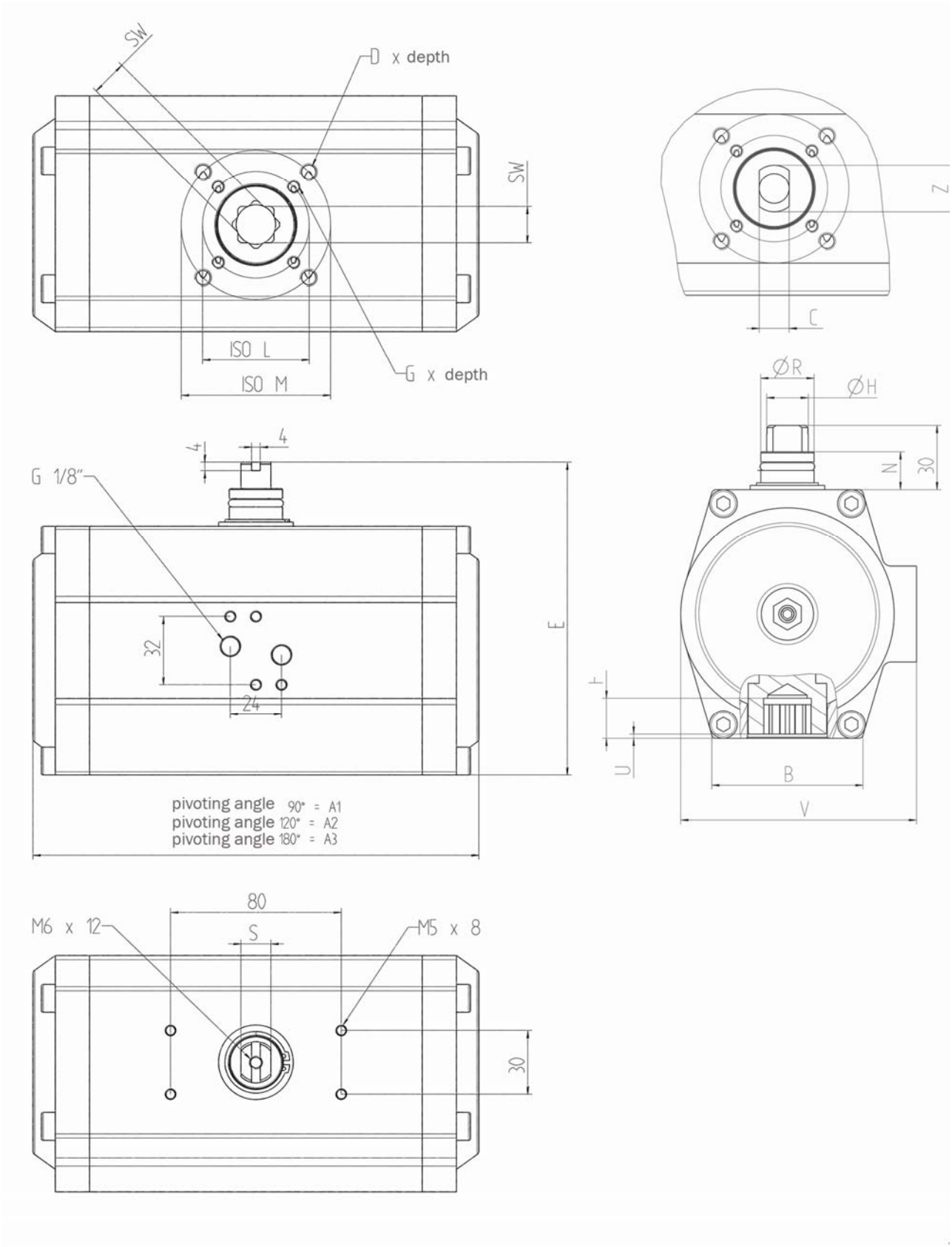
SW
D x depth
SW
ISO L
ISO M
G x depth
Z
C
ØR
ØH
N
30
4
4
G 1/8"
E
32
24
T
U
B
V
pivoting angle 90° = A1
pivoting angle 120° = A2
pivoting angle 180° = A3
80
M6 x 12
S
M5 x 8
30