



Standard Version

linear unit	L50	L75	L100	L350	L500	S35	S36	S75	S120	S121
Stem thread	M16 x 1,5			M24 x 2		M36 x 1,5	M50 x 2			M85 x 2
Output drive	Flange G0 or F10			Cardan Base		according to dimension diagram				
Mode of functioning	Rotary actuator driven spindle drive, thrust spindle locked against rotation (self-locking actuator)									
Output drive rot. acuator						D/G0			D/G1,G2	
Output shaft/flange size	Am/G0					D/G0			D/G1,G2	

Model series	AB	rAB	exAB	exrAB
--------------	----	-----	------	-------

Mechanical mode of functioning

Revolutions <120 min ⁻¹	Worm gear, one-pitch. Self-locking actuator		Worm gear, one-pitch Self-locking actuator	
Revolutions ≥120 min ⁻¹	Worm gear three-pitch Non-self locking actuator		Worm gear three-pitch Non-self locking actuator	

Ambient temperature

	-25 to +80°C	-20 to +40°C
	Please observe the operational temperature ranges of additional components	according to EN50014 no TÜV-test certificates are issued for ambient temperatures out of this range

Degree of protection provided by enclosures

	With three-phase motors: IP66 according to EN60529 and IEC529 Other motors or higher degree of protection on request	With three-phase motors ¹⁾ : IP65 according to EN60529 and IEC529 Other motors or higher degree of protection on request
--	--	---

Explosion-proof version

		With three-phase motors ¹⁾ : EExdIICT4 according to EN50014 up to EN50020 For other motors on request
--	--	--

Three-phase motor

Mode of operation	S2-15min	S4-1200c/h 40% ED	S2-15min	S4-600c/h 40% ED ²⁾
	according to EN60034 and IEC34, in relation to 20°C ambient temperature		according to EN60034 and IEC34, in relation to 20°C ambient temperature	
	Average duty 50 % of maximum torque		Average duty 50 % of maximum torque.	
Motor protection	All motors are equipped with thermal switches To safeguard warranty integration in control circuitry is mandatory			
Isolation class	F			
Nominal voltage	400/230V 50Hz ±10% A higher voltage drop leads to a reduction of power		400/230V 50Hz ±5% A higher voltage drop leads to a reduction of power	

Control- and indication unit

Torque switch	1 switch cw, 1 switch ccw	
Travel switch	1 switch cw, 1 switch ccw	
Operation indicator	1 flashing switch	
	All control- and indication units are equipped with space heater	

Electrical connection

	Smod (plug with crimp contacts)	AK36 (terminal strip)
max. number of connector	10 x 20A/400V and 50 x 10A/230V	36 poles
	Wiring diagram and proposed circuitry will be designed according to customer requirements	

Paint

	K2 (for aggressive atmospheres) RAL7030 pale
--	--

¹⁾ three-phase motors up to 1,1kW and up to frame size 80

²⁾ if not differently specified



**Technical Data
Rotary Actuators
with Linear Unit**



General Specifications

On/off duty, step-control duty				Technical Data Linear Thrust Unit			Linear Thrust Unit
Travel max. (mm)	Operating force max. (kN)	Positioning speed		Mechanical advantage	stem	weight approx (kg)	
		min. (mm min ⁻¹)	max. (mm min ⁻¹)				
50	10	6	320	2	Tr20x4 li	3	
50	15	6	60	2	Tr20x4 li	3	L50
75	10	6	320	2	Tr20x4 li	5	L75
75	15	6	60	2	Tr20x4 li	5	L75
75	20	10	320	2	Tr20x4 li	5	L75
75	25	10	60	2	Tr20x4 li	5	L75
100	10	6	320	2	Tr20x4 li	7	L100
100	15	6	60	2	Tr20x4 li	7	L100
100	20	10	320	2	Tr20x4 li	7	L100
100	25	10	60	2	Tr20x4 li	7	L100
350	10	7,5	400	2,43	Tr24x5 li	25	L350
350	15	7,5	75	2,43	Tr24x5 li	25	L350
350	20	12,5	400	2,43	Tr24x5 li	25	L350
350	25	12,5	75	2,43	Tr24x5 li	25	L350
500	10	15	800	3,27	Tr24x10 2gg li	32	L500
500	15	15	150	3,27	Tr24x10 2gg li	32	L500
500	20	25	800	3,27	Tr24x10 2gg li	32	L500
500	25	25	150	3,27	Tr24x10 2gg li	32	L500
50	35	12,5	400	2,86	Tr24x5li	7,5	S35
120	35	12,5	400	2,86	Tr24x5li	25	S36
120	77	12,5	400	3,25	Tr28x5 li	23	S75
120	77	25	400	3,25	Tr28x5 li	23	S75
120	60	15	480	4,13	Tr36x6 li	23	S120
120	121	30	480	4,13	Tr36x6 li	23	S120
160	60	15	480	4,13	Tr36x6 li	98	S121
160	121	30	480	4,13	Tr36x6 li	98	S121

On/Off duty, open-loop control														
Positioning speed											Rotary Actuator		Total weight (kg)	refer to dimension drawing
from to											standard	Ex-proof		
(mm min ⁻¹)														
6	10	20	30	40	60	80	120	160	240	320	AB3	exAB3	21	M80_5E16
6	10	20	30	40	60	-	-	-	-	-	AB3	exAB3	21	M80_5E16
6	10	20	30	40	60	80	120	160	240	320	AB3	exAB3	23	M80_5E19
6	10	20	30	40	60	-	-	-	-	-	AB3	exAB3	23	M80_5E19
-	10	20	30	40	60	80	120	160	240	320	AB8	exAB8	32	M82_5E18a
-	10	20	30	40	60	-	-	-	-	-	AB8	exAB8	32	M82_5E18a
6	10	20	30	40	60	80	120	160	240	320	AB3	exAB3	23	M80_5E27
6	10	20	30	40	60	-	-	-	-	-	AB3	exAB3	23	M80_5E27
-	10	20	30	40	60	80	120	160	240	320	AB8	exAB8	32	M82_5E25
-	10	20	30	40	60	-	-	-	-	-	AB8	exAB8	32	M82_5E25
7,5	12,5	25	37,5	50	75	100	150	200	300	400	AB3	exAB3	42	M80_5E25a
7,5	12,5	25	37,5	50	75	-	-	-	-	-	AB3	exAB3	42	M80_5E25a
-	12,5	25	37,5	50	75	100	150	200	300	400	AB8	exAB8	49	M82_5E17a
-	12,5	25	37,5	50	75	-	-	-	-	-	AB8	exAB8	49	M82_5E17a
15	25	50	75	100	150	200	300	400	600	800	AB3	exAB3	45	M80_5E28
15	25	50	75	100	150	-	-	-	-	-	AB5	exAB5	45	M80_5E28
-	25	50	75	100	150	200	300	400	600	800	AB8	exAB8	52	M82_5E30
-	25	50	75	100	150	-	-	-	-	-	AB8	exAB8	52	M82_5E30
-	12,5	25	37,5	50	75	100	150	200	300	400	AB8	exAB8	35	M82_5E23
-	12,5	25	37,5	50	75	100	150	200	300	400	AB8	exAB8	52	M82_5E24
-	12,5	25	37,5	50	75	100	150	200	300	400	AB18	exAB18	69	M83_5E01_1
-	-	25	37,5	50	75	100	150	200	300	400	AB40	exAB40	100	M84_5E14
-	15	30	45	60	90	120	180	240	360	480	AB18	exAB18	69	M83_5E18
-	-	30	45	60	90	120	180	240	360	480	AB40	exAB40	100	M84_5E16
-	15	30	45	60	90	120	180	240	360	480	AB18	exAB18	145	M83_5E19
-	-	30	45	60	90	120	180	240	360	480	AB40	exAB40	176	M84_5E17
actuator output speed (min ⁻¹)														
1,5	2,5	5	7,5	10	15	20	30	40	60	80				

Modulating duty				Technical Data Linear Thrust Unit			Linear Thrust Unit	
Travel max. (mm)	Operating force max. (kN)	switch-off force max. (kN)	Positioning speed		Mechanical advantage	stem		weight approx (kg)
			min. (mm min ⁻¹)	max. (mm min ⁻¹)				
50	7,5	10	6	160	2	Tr20x4 li		3
50	10	15	6	160	2	Tr20x4 li	3	L50
50	15	15	6	60	2	Tr20x4 li	3	L50
75	7,5	10	6	160	2	Tr20x4 li	5	L75
75	10	20	6	160	2	Tr20x4 li	5	L75
75	15	25	6	60	2	Tr20x4 li	5	L75
75	20	20	10	160	2	Tr20x4 li	5	L75
75	25	25	10	60	2	Tr20x4 li	5	L75
100	7,5	10	6	160	2	Tr20x4 li	7	L100
100	10	15	6	160	2	Tr20x4 li	7	L100
100	15	15	6	60	2	Tr20x4 li	7	L100
100	20	20	10	160	2	Tr20x4 li	7	L100
100	25	25	10	60	2	Tr20x4 li	7	L100
350	10	20	7,5	300	2,43	Tr24x5 li	25	L350
350	15	25	7,5	75	2,43	Tr24x5 li	25	L350
350	20	20	12,5	300	2,43	Tr24x5 li	25	L350
350	25	25	12,5	75	2,43	Tr24x5 li	25	L350
500	10	15	15	600	3,27	Tr24x10 2gg li	32	L500
500	20	20	25	600	3,27	Tr24x10 2gg li	32	L500
500	25	25	25	150	3,27	Tr24x10 2gg li	32	L500
50	30	35	12,5	200	2,86	Tr24x5li	7,5	S35
120	30	35	12,5	200	2,86	Tr24x5li	25	S36
120	55	77	12,5	200	3,25	Tr28x5 li	23	S75
120	77	77	25	200	3,25	Tr28x5 li	23	S75
120	45	60	15	240	4,13	Tr36x6 li	23	S120
120	90	121	30	240	4,13	Tr36x6 li	23	S120
160	45	60	15	240	4,13	Tr36x6 li	98	S121
160	90	121	30	240	4,13	Tr36x6 li	98	S121

Modulating duty, closed-loop control														
Positioning speed											Rotary Actuator		Total weight (kg)	refer to dimension drawing
from to											standard	Ex-proof		
(mm min ⁻¹)														
6	10	20	30	40	60	80	120	160	o.r.	o.r.	rAB3	exrAB3	21	M80_5E16
6	10	20	30	40	60	80	120	160	o.r.	o.r.	rAB5	exrAB5	21	M80_5E16
6	10	20	30	40	60	-	-	-	o.r.	o.r.	rAB5	exrAB5	21	M80_5E16
6	10	20	30	40	60	80	120	160	o.r.	o.r.	rAB3	exrAB3	23	M80_5E19
6	10	20	30	40	60	80	120	160	o.r.	o.r.	rAB5	exrAB5	23	M80_5E19
6	10	20	30	40	60	-	-	-	o.r.	o.r.	rAB5	exrAB5	23	M80_5E19
-	10	20	30	40	60	80	120	160	o.r.	o.r.	rAB8	exrAB8	32	M82_5E18a
-	10	20	30	40	60	-	-	-	o.r.	o.r.	rAB8	exrAB8	32	M82_5E18a
6	10	20	30	40	60	80	120	160	o.r.	o.r.	rAB3	exrAB3	23	M80_5E27
6	10	20	30	40	60	80	120	160	o.r.	o.r.	rAB5	exrAB5	23	M80_5E27
6	10	20	30	40	60	-	-	-	o.r.	o.r.	rAB5	exrAB5	23	M80_5E27
-	10	20	30	40	60	80	120	160	o.r.	o.r.	rAB8	exrAB8	32	M82_5E25
-	10	20	30	40	60	-	-	-	o.r.	o.r.	rAB8	exrAB8	32	M82_5E25
7,5	12,5	25	37,5	50	75	100	150	200	o.r.	o.r.	rAB5	exrAB5	42	M80_5E25a
7,5	12,5	25	37,5	50	75	-	-	-	o.r.	o.r.	rAB5	exrAB5	42	M80_5E25a
-	12,5	25	37,5	50	75	100	150	200	o.r.	o.r.	rAB8	exrAB8	49	M82_5E17a
-	12,5	25	37,5	50	75	-	-	-	o.r.	o.r.	rAB8	exrAB8	49	M82_5E17a
15	25	50	75	100	150	200	300	400	o.r.	o.r.	rAB5	exrAB5	45	M80_5E28
-	25	50	75	100	150	200	300	400	o.r.	o.r.	rAB8	exrAB8	52	M82_5E30
-	25	50	75	100	150	-	-	-	o.r.	o.r.	rAB8	exrAB8	52	M82_5E30
-	12,5	25	37,5	50	75	100	150	200	o.r.	o.r.	rAB8	exrAB8	35	M82_5E23
-	12,5	25	37,5	50	75	100	150	200	o.r.	o.r.	rAB8	exrAB8	52	M82_5E24
-	12,5	25	37,5	50	75	100	150	200	o.r.	o.r.	rAB18	exrAB18	69	M83_5E01_1
-	-	25	37,5	50	75	100	150	200	o.r.	o.r.	rAB40	exrAB40	100	M84_5E14
-	15	30	45	60	90	120	180	240	o.r.	o.r.	rAB18	exrAB18	69	M83_5E18
-	-	30	45	60	90	120	180	240	o.r.	o.r.	rAB40	exrAB40	100	M84_5E16
-	15	30	45	60	90	120	180	240	o.r.	o.r.	rAB18	exrAB18	145	M83_5E19
-	-	30	45	60	90	120	180	240	o.r.	o.r.	rAB40	exrAB40	176	M84_5E17
actuator output speed (min ⁻¹)														
1,5	2,5	5	7,5	10	15	20	30	40	60	80				

Optional equipment

Linear Unit	All Linear Units
Latern bush for 20, 30, 50, 75, 100 mm stroke	option
Flange version	standard for L50, L75, L100; option for others
Linkage heads and valve lever for Cardan base	option



**Technical Data
Rotary Actuators
On/Off duty, open-loop control**



Model series	AB	rAB	exAB	exrAB
Output drive				
Connecting flange	according to ISO5210 resp. ISO5211			
Model sizes 3, 5 and 8	G0 or F10 according to specification when ordered			
Model sizes 18 and 40	G1/2 or F14 according to specification when ordered			
Output drive	B or E			
Mechanical mode of functioning				
Revolutions <120 min ⁻¹	Worm gear, one-pitch. Self-locking actuator		Worm gear, one-pitch Self-locking actuator	
Revolutions ≥120 min ⁻¹	Worm gear three-pitch Non-self locking actuator		Worm gear three-pitch Non-self locking actuator	
Ambient temperature				
	-25 to +80°C		-20 to +40°C	
	Please observe the operational temperature ranges of additional components		according to EN50014 no TÜV-test certificates are issued for ambient temperatures out of this range	
Degree of protection provided by enclosures				
	With three-phase motors: IP66 according to EN60529 and IEC529		With three-phase motors ¹⁾ : IP65 according to EN60529 and IEC529	
	Other motors or higher degree of protection on request			
Explosion-proof version				
	With three-phase motors ¹⁾ : EExdIICT4 according to EN50014 up to EN50020 For other motors on request			
Three-phase motor				
Mode of operation	S2-15min	S4-1200c/h 40% ED	S2-15min	S4-600c/h 40% ED ²⁾
	according to EN60034 and IEC34, in relation to 20°C ambient temperature		according to EN60034 and IEC34, in relation to 20°C ambient temperature	
	Average duty 50 % of maximum torque		Average duty 50 % of maximum torque.	
Motor protection	All motors are equipped with thermal switches To safeguard warranty integration in control circuitry is mandatory			
Isolation class	F			
Nominal voltage	400/230V 50Hz ±10% A higher voltage drop leads to a reduction of power		400/230V 50Hz ±5% A higher voltage drop leads to a reduction of power	
Control- and indication unit				
Torque switch	1 switch cw, 1 switch ccw			
Travel switch	1 switch cw, 1 switch ccw			
Operation indicator	1 flashing switch			
	All control- and indication units are equipped with space heater			
Electrical connection				
	Smod (plug with crimp contacts)		AK36 (terminal strip)	
max. number of connector	10 x 20A/400V and 50 x 10A/230V		36 poles	
	Wiring diagram and proposed circuitry will be designed according to customer requirements			
Paint				
	K2 (for aggressive atmospheres) RAL7030 pale			

¹⁾ three-phase motors up to 1,1kW and up to frame size 80

²⁾ if not differently specified



Spur gear	ASG60	ASG125	ASG250	ASG500	ASG1000
Connecting flange	according to DIN3210 or ISO5211 resp. ISO5210				
Rotating direction	Rotating direction corresponds to rotary actuator rotating direction				
Mode of functioning	Rotary actuator driven, non-self locking spur gearing				
Output drive rot. acuator					
Output shaft/flange size	E,B3/ according to general specifications, column mounting flange				

Model series	AB	rAB on request	exAB	exrAB on request
--------------	----	----------------	------	------------------

Mechanical mode of functioning				
Revolutions <120 min ⁻¹	Worm gear, one-pitch. Self-locking actuator		Worm gear, one-pitch Self-locking actuator	
Revolutions ≥120 min ⁻¹	Worm gear three-pitch Non-self locking actuator		Worm gear three-pitch Non-self locking actuator	

Ambient temperature				
	-25 to +80°C		-20 to +40°C	
	Please observe the operational temperature ranges of additional components		according to EN50014 no TÜV-test certificates are issued for ambient temperatures out of this range	

Degree of protection provided by enclosures				
	With three-phase motors: IP66 according to EN60529 and IEC529		With three-phase motors ¹⁾ : IP65 according to EN60529 and IEC529	
	Other motors or higher degree of protection on request			

Explosion-proof version				
	With three-phase motors ¹⁾ : EExdIICT4 according to EN50014 up to EN50020 For other motors on request			

Three-phase motor				
Mode of operation	S2-15min	S4-1200c/h 40% ED	S2-15min	S4-600c/h 40% ED ²⁾
	according to EN60034 and IEC34, in relation to 20°C ambient temperature		according to EN60034 and IEC34, in relation to 20°C ambient temperature	
	Average duty 50 % of maximum torque		Average duty 50 % of maximum torque.	
Motor protection	All motors are equipped with thermal switches To safeguard warranty integration in control circuitry is mandatory			
Isolation class	F			
Nominal voltage	400/230V 50Hz ±10% A higher voltage drop leads to a reduction of power		400/230V 50Hz ±5% A higher voltage drop leads to a reduction of power	

Control- and indication unit				
Torque switch	1 switch cw, 1 switch ccw			
Travel switch	1 switch cw, 1 switch ccw			
Operation indicator	1 flashing switch			
	All control- and indication units are equipped with space heater			

Electrical connection				
	Smold (plug with crimp contacts)		AK36 (terminal strip)	
max. number of connector	10 x 20A/400V and 50 x 10A/230V		36 poles	
	Wiring diagram and proposed circuitry will be designed according to customer requirements			

Paint				
	K2 (for aggressive atmospheres) RAL7030 pale			

¹⁾ three-phase motors up to 1,1kW and up to frame size 80

²⁾ if not differently specified



**Technical Data
Rotary Actuators
with Spur Gear**



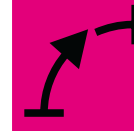
General Specifications

Output drives DIN/ISO					Technical Data Spur Gear								Spur Gear
A/A	B/B1,B2	C/-	D/-	E/B3,B4	Max. shaft length for B, E	Max. output torque	Mechanical advantage	Reduction ratio	Output flange		Actuator output flange	Weight w/o actuator	
Max. stem diameter	Shaft diameter	Claw coupling diameter	Shaft diameter	Shaft diameter					DIN	ISO			
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(Nm)		(:1)			(kg)		
50	60	38	30	30	109	600	1,8	2	G2	F14	G1/2	38	ASG60/2
50	60	38	30	30	109	600	2,8	3	G2	F14	G1/2	38	ASG60/3
50	60	38	30	30	109	600	3,7	4	G2	F14	G1/2	38	ASG60/4
50	60	38	30	30	109	600	5,4	6	G2	F14	G0	38	ASG60/6
50	60	38	30	30	109	600	7,2	8	G2	F14	G0	38	ASG60/8
50	60	38	30	30	109	600	10,7	12	G2	F14	G0	38	ASG60/12
65	80	47	40	40	156	900	1,8	2	G3	F16	G1/2	66	ASG125/2
65	80	47	40	40	156	1250	2,8	3	G3	F16	G1/2	66	ASG125/3
65	80	47	40	40	156	1250	3,7	4	G3	F16	G1/2	66	ASG125/4
65	80	47	40	40	156	1250	5,4	6	G3	F16	G1/2	66	ASG125/6
65	80	47	40	40	156	1250	7,2	8	G3	F16	G1/2	66	ASG125/8
65	80	47	40	40	156	1250	10,8	12	G3	F16	G0	66	ASG125/12
85	100	64	50	50	185	1400	2,8	3	G4	F25	G1/2	175	ASG250/3
85	100	64	50	50	185	1850	3,7	4	G4	F25	G1/2	175	ASG250/4
85	100	64	50	50	185	2500	5,5	6	G4	F25	G1/2	175	ASG250/6
85	100	64	50	50	185	2500	7,4	8	G4	F25	G1/2	175	ASG250/8
85	100	64	50	50	185	2500	9,2	10	G4	F25	G1/2	175	ASG250/10
85	100	64	50	50	185	2500	10,8	12	G4	F25	G1/2	175	ASG250/12
95	120	75	60	60	185	2750	5,5	6	G5	F30	G1/2	208	ASG500/6
95	120	75	60	60	185	3700	7,4	8	G5	F30	G1/2	208	ASG500/8
95	120	75	60	60	185	4500	9,2	10	G5	F30	G1/2	208	ASG500/10
95	120	75	60	60	185	4500	10,8	12	G5	F30	G1/2	208	ASG500/12
125	160	105	80	80	230	5400	10,8	12	G6	F35	G1/2	320	ASG1000/12
125	160	105	80	80	230	7200	14,4	16	G6	F35	G1/2	320	ASG1000/16

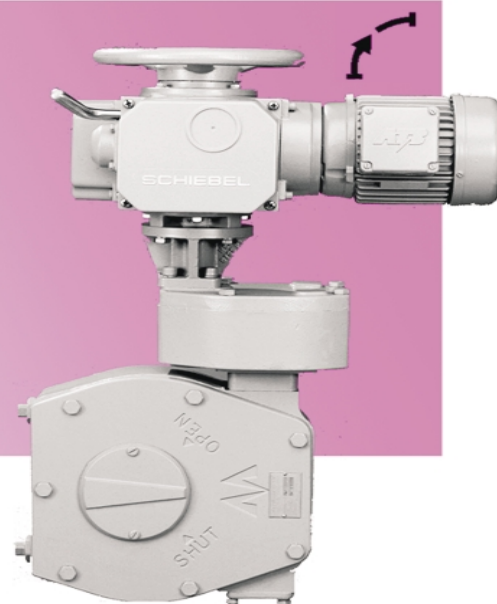
On/Off duty, open-loop control																
Spur Gear output speed													Rotary Actuator		weight incl. Actuator	refer to dimension drawing
from													standard	ex-proof		
(min ⁻¹)															(kg) ¹⁾	
-	2,5	3,8	5	7,5	10	15	20	30	40	60	80	100	AB40	exAB40	90	M84_3E18
0,8	1,7	2,5	3,3	5	6,7	10	13	20	27	40	53	67	AB18	exAB18	90	M83_3E11
0,6	1,3	1,9	2,5	3,8	5	7,5	10	15	20	30	40	50	AB18	exAB18	90	M83_3E11
0,4	0,8	1,3	1,7	2,5	3,3	5	6,7	10	13	20	-	-	AB8	exAB8	90	M82_3E06
0,3	0,6	0,9	1,3	1,9	2,5	3,8	5	7,5	10	15	20	25	AB8	exAB8	90	M82_3E06
0,2	0,4	0,6	0,8	1,3	1,7	2,5	3,3	5	6,7	10	-	-	AB5	exAB5	90	M80_3E05
-	2,5	3,8	5	7,5	10	15	20	30	40	60	-	-	AB40	exAB40	156	M84_3E17
-	1,7	2,5	3,3	5	6,7	10	13	20	27	40	-	-	AB40	exAB40	156	M84_3E17
-	1,3	1,9	2,5	3,8	5	7,5	10	15	20	30	40	50	AB40	exAB40	118	M84_3E17
0,4	0,8	1,3	1,7	2,5	3,3	5	6,7	10	13	20	-	-	AB18	exAB18	118	M83_3E12
0,3	0,6	0,9	1,3	1,9	2,5	3,8	5	7,5	10	15	20	25	AB18	exAB18	156	M83_3E12
0,2	0,4	0,6	0,8	1,3	1,7	2,5	3,3	5	6,7	10	-	-	AB8	exAB8	156	M82_3E05
-	1,7	2,5	3,3	5	6,7	10	13	20	27	40	-	-	AB40	exAB40	265	o.r.
-	1,3	1,9	2,5	3,8	5	7,5	10	15	20	30	-	-	AB40	exAB40	265	o.r.
-	0,8	1,3	1,7	2,5	3,3	5	6,7	10	13	20	-	-	AB40	exAB40	265	o.r.
-	0,6	0,9	1,3	1,9	2,5	3,8	5	7,5	10	15	20	25	AB40	exAB40	265	o.r.
-	0,5	0,8	1	1,5	2	3	4	6	8	12	16	20	AB40	exAB40	227	o.r.
0,2	0,4	0,6	0,8	1,3	1,7	2,5	3,3	5	6,7	10	-	-	AB18	exAB18	227	o.r.
-	0,8	1,3	1,7	2,5	3,3	5	6,7	10	13	20	-	-	AB40	exAB40	298	M84_3E16
-	0,6	0,9	1,3	1,9	2,5	3,8	5	7,5	10	15	-	-	AB40	exAB40	298	M84_3E16
-	0,5	0,8	1	1,5	2	3	4	6	8	12	-	-	AB40	exAB40	298	M84_3E16
-	0,4	0,6	0,8	1,3	1,7	2,5	3,3	5	6,7	10	13	17	AB40	exAB40	298	M84_3E16
-	0,4	0,6	0,8	1,3	1,7	2,5	3,3	5	6,7	10	-	-	AB40	exAB40	410	M84_3E19
-	0,3	0,5	0,6	0,9	1,3	1,9	2,5	3,8	5	7,5	-	-	AB40	exAB40	410	M84_3E19
Actuator output speed (min ⁻¹)																
2,5	5	7,5	10	15	20	30	40	60	80	120	160	200				

Optional equipment

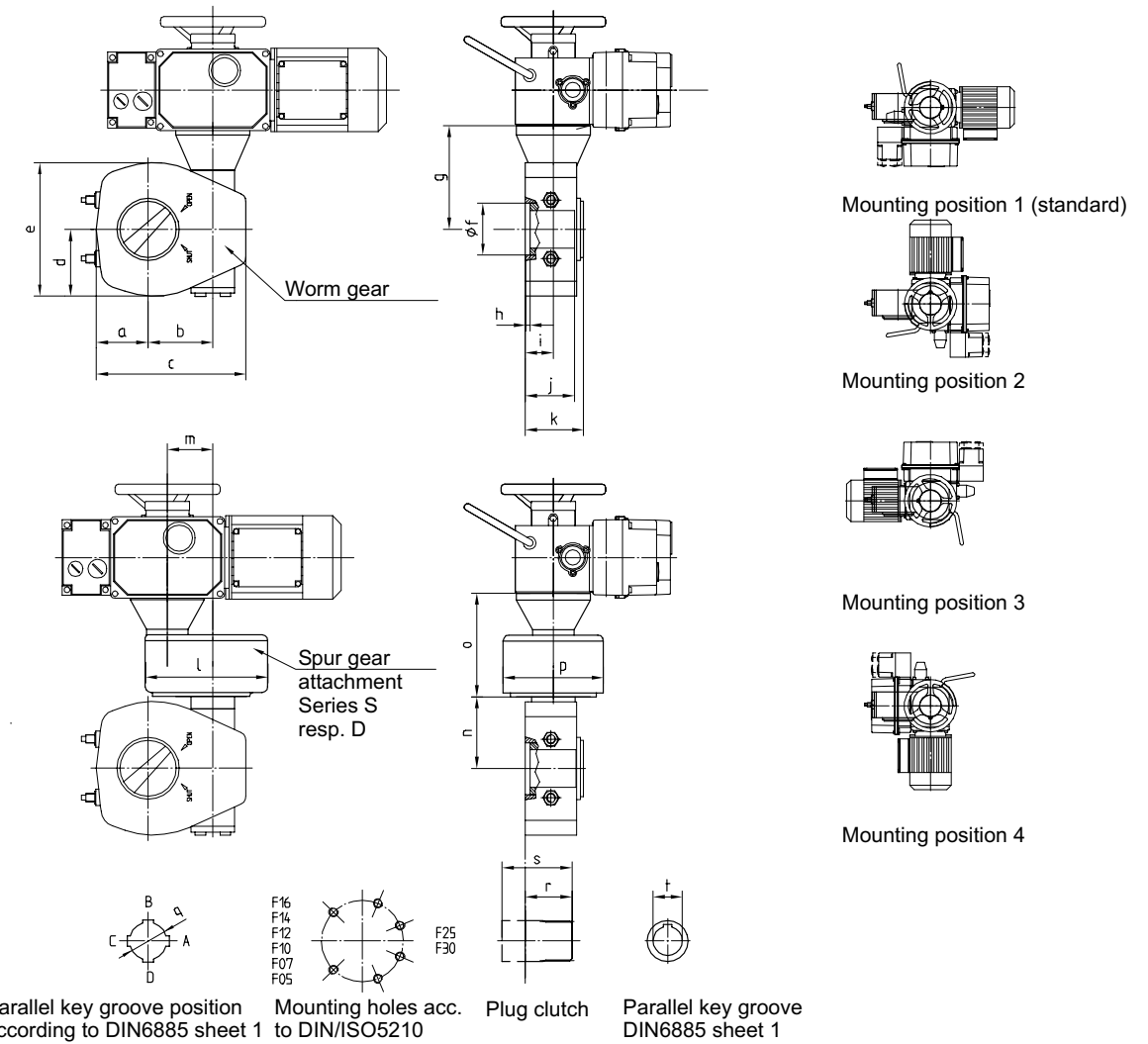
Spur Gear	All Spur Gears
Stem protection tube	option
Special flange	option



Gear Dimensions and Mounting Positions



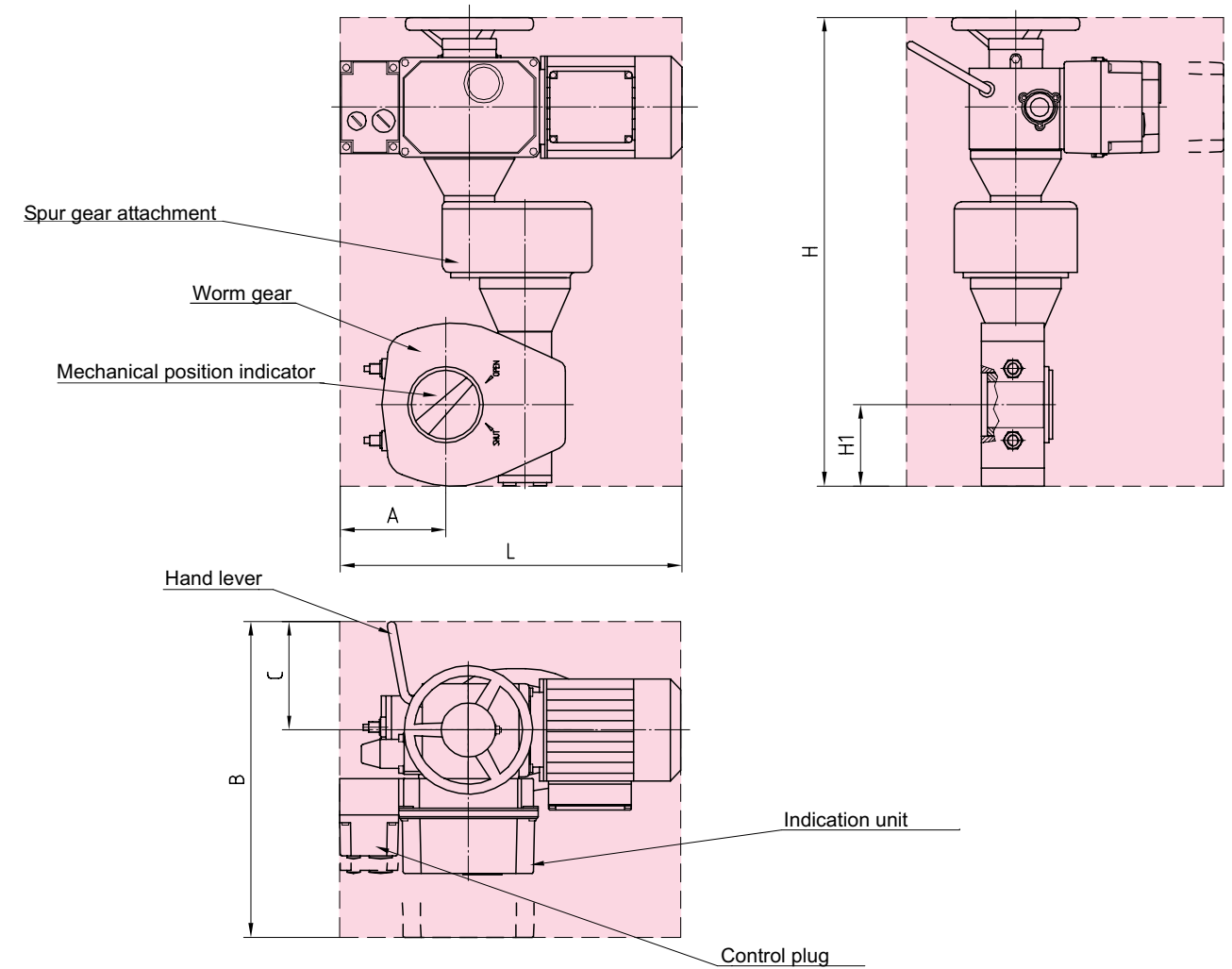
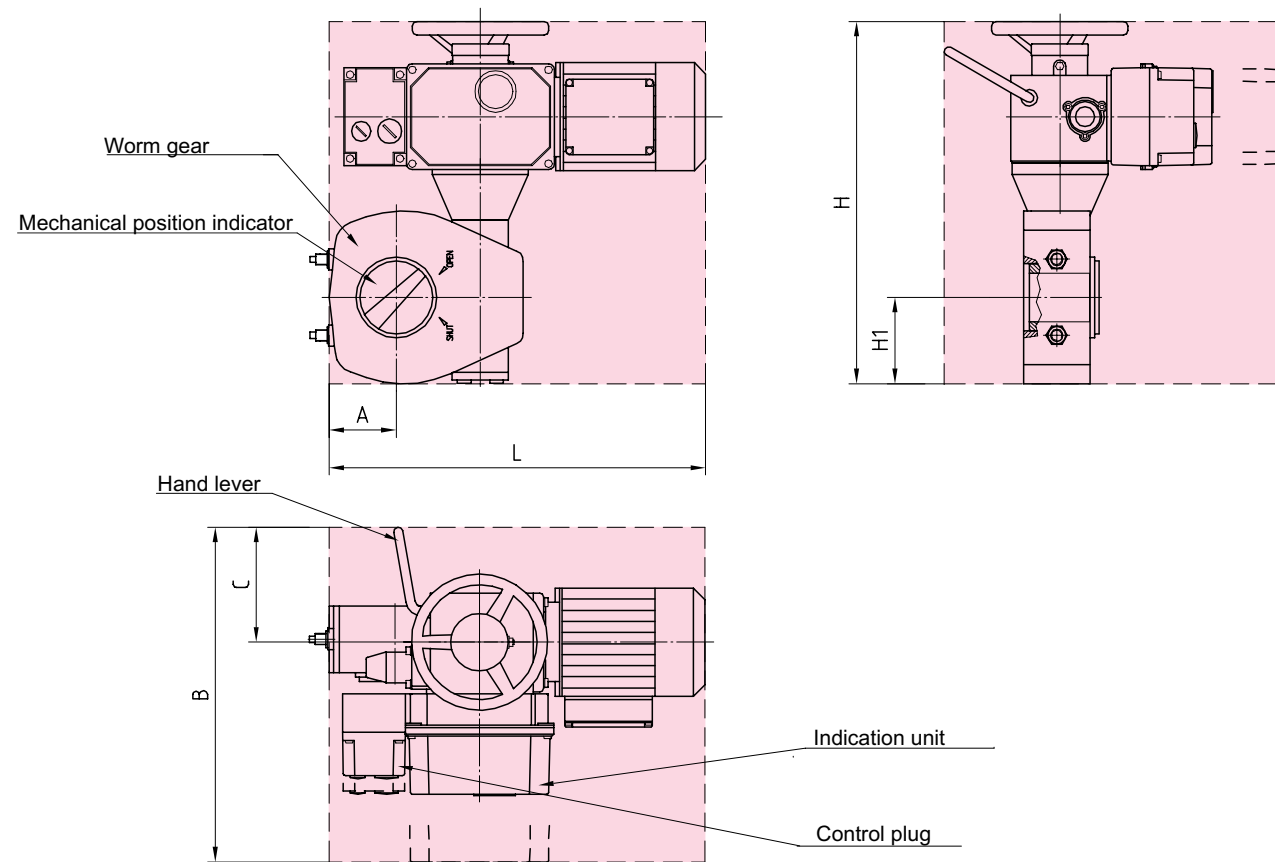
Dimensions Quarter Turn Actuators Part 1



Worm gear	a	b	c	d	e	φf	g	h	i	j [max]	k	l	m	n	o	p	q [max]	r [min]	s [max]	t [max]	Valve connecting flange DIN/ISO5210
MZF40	48	59,9	140	63,5	127	50,8	95	7	32	57	71	-	-	-	-	-	32	35	60	23	F07, F10
MYF40	76	76,8	203	76	152	66,7	147	9	40	77	92	-	-	-	-	-	45	70	100	33	F10, F12
MYF40 S3	76	76,8	203	76	152	66,7	-	9	40	77	92	210	77,9	92	178	172	45	70	100	33	F10, F12
MAF46	73	85,8	210	89	178	88,9	159	9	44,5	80	93	-	-	-	-	-	64	80	120	50	F12, F14, F16
MAF46 S3	73	85,8	210	89	178	88,9	-	9	44,5	80	93	210	77,9	104	178	172	64	80	120	50	F12, F14, F16
MBF64	89	111,2	257	114,5	229	88,9	178	8	48	87	100	-	-	-	-	-	64	80	120	50	F12, F14, F16
MBF64 S3	89	111,2	257	114,5	229	88,9	-	8	48	87	100	210	77,9	123	178	172	64	80	120	50	F12, F14, F16
MCF72	99	136,5	293	137,5	275	114,3	200	8	48	91	105	-	-	-	-	-	82	-	-	-	F14, F16
MCF72 S3 bzw. S5	99	136,5	293	137,5	275	114,3	-	8	48	91	105	210	77,9	143	178	172	82	-	-	-	F14, F16
MDF44	111	137,8	306	142,5	285	120,7	210	9	54	103	116	-	-	-	-	-	90	-	-	-	F16
MDF44 S3 bzw. S5	111	137,8	306	142,5	285	120,7	-	9	54	103	116	210	77,9	153	178	172	90	-	-	-	F16
MDF44 D9	111	137,8	306	142,5	285	120,7	-	9	54	103	116	284	-	153	291	188	90	-	-	-	F16
MFF57	155	137,8	350	155	310	128	210	21	66	114	128	-	-	-	-	-	90	-	-	-	F16, F2
MFF57 S3 bzw. S5	155	137,8	350	155	310	128	-	21	66	114	128	210	77,9	153	178	172	90	-	-	-	F16, F25
MFF57 D9	155	137,8	350	155	310	128	-	21	66	114	128	284	-	153	291	188	90	-	-	-	F16, F25
MFF36 S3 bzw. S5	155	137,8	350	155	310	128	-	20	66	114	128	210	77,9	153	178	172	90	-	-	-	F16, F25
MFF36 D9	155	137,8	350	155	310	128	-	20	66	114	128	284	-	153	291	188	90	-	-	-	F16, F25



Overall Dimensions



Actuator	Gear	A	B	C	H	H1	L ₁	L ₂	L ₃
AB5	MZF40	121	443	152	348	66	479	526	611
AB5	MYF40	104	443	152	414	80	479	526	611
AB8	MYF40	137	430	118	454	80	580	635	725
AB8	MAF46	128	430	118	475	88	580	635	725
AB8	MBF64	102	430	118	520	115	580	635	725
AB18	MCF72	99	498	180	620	138	663	727	788
AB18	MDF44	111	498	180	635	143	681	745	806
AB18	MFF57	155	498	180	648	155	720	784	845

1) Standard motor (max.)
 2) Standard motor with brake (max.)
 3) Pole change motor with brake (max.)
 Shown configuration: AB5E + MBF64

Actuator	Gear	A	B	C	H	H1	L ₁	L ₂	L ₃
AB5	MYF40 S3	182	443	152	537	80	479	526	611
AB5	MAF46 S3	173	443	152	557	88	479	526	611
AB5	MBF64 S3	148	443	152	603	115	479	526	611
AB5	MCF72 S3 bzw.S5	122	441	152	646	138	479	526	611
AB8	MDF44 S3	148	430	118	701	143	580	635	725
AB5	MDF44 S5	116	443	152	661	143	479	526	611
AB5	MDF44 D9	111	443	152	774	143	552	599	684
AB8	MFF57 S3	155	430	118	713	155	581	635	726
AB5	MFF57 S5	155	443	152	673	155	505	552	637
AB5	MFF57 D9	155	443	152	786	155	591	638	723
AB18	MFF36 S3 bzw.S5	164	498	180	776	155	650	714	775
AB8	MFF36 D9	155	430	118	826	155	659	714	804
AB5	MFF36 D12	155	384	152	786	155	591	638	723

1) Standard motor (max.)
 2) Standard motor with brake (max.)
 3) Pole change motor with brake (max.)
 Shown configuration: AB5E + MBF64/S3