

“Fluid Under Control”

TORK®

valve & automation

high quality



PNEUMATIC ACTUATORS

Double Acting & Single Acting

for ball valves
butterfly valves
plug valves
dampers



wide range of products

TSEK



CE
0036



PG
GOST

TS EN264 UKSEPRO

General Features

- High performance
- High cycle life (1.000.000 operation)
- High torque value
- Standard position indicator
- For quarter turn valve automation (9Nm - 2900Nm)
- One compact design for double and single acting models
- Dual piston rack and pinion
- According to international standards (NAMUR, ISO5211)
- Body: Extruded aluminium
- Piston & Caps: Die cast aluminium
- 90° turn, two external travel stop adjustment $\pm 5\%$
- 100% adjustable travel stop (on request)
- Pressure : Double acting 2.5 bar 8 bar
Single acting 3.5 bar 8 bar
- Temperature : Standard -20°C 80°C
On request -20°C 150°C, -30°C 80°C
- TORK Pneumatic actuators have been manufactured since 1986
- Lubrication : All moving parts are factory lubricated

Protection levels for TORK actuator



Anodized body



Epoxy coated body



Nickel coated body



100% Adjustable



PTFE coated body

Design Features of TORK RA Serie Actuators

1) Actuator Body

Aluminium extruded and honed surface body. Internal and external parts corrosion protected

2) Indicator

It is standard on all actuators, it shows visual position of valve

3) Caps

Provide max. resistance against corrosive elements, same cap design for double and single types actuators

4) Travel Adjustment

Permits adjustment of $\pm 5\%$ in both directions

5) Springs

Springs provide high performance in safe emergency shutdown operation. Cartridge design & corrosion resistant

6) Bearing & Piston guides

High cycle life, wide operation temperature range, lubricating provide high performance

7) Nuts & Bolts

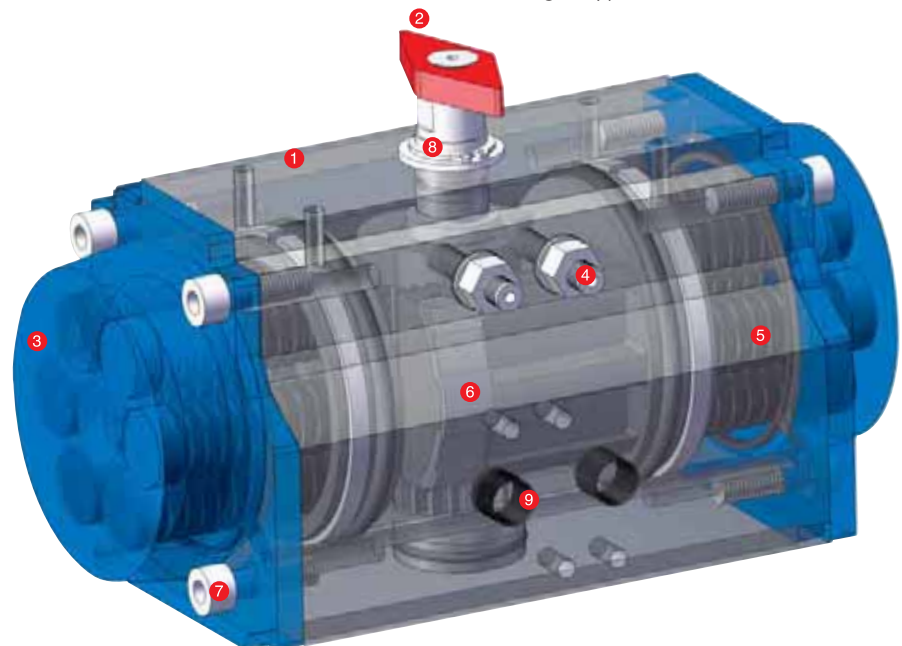
Stainless steel body. Provide long term corrosion resistance.

8) Piston rack and pinion

Provides wear resistance and protect against corrosion. Die cast pistons anodized aluminium fitted with high quality seals and guides.

9) Connections

- Solenoid valves, switch box, positioners : Namur VDI/VDE 3845
- Bottom valve connection: ISO5211, DIN3337 standard



RA ... DA Serie

Double Acting Rotary Pneumatic Actuators

Application	: Ball Valve, Butterfly Valve, Plug Valve, Dampers on-off / proportional control
Size	: RA 32 DA ... RA 400 DA
Supply Pressure Air	: 2.5 - 8 bar
Output Torque Value	: 9 Nm ... 2900 Nm
Body	: Extruded Aluminium / Cast Aluminium
Caps and Pistons	: Die cast Aluminium
Temperature	: -10 °C...80°C
Valve connection	: ISO 5211 / DIN3337 standard
Limit Switch connection	: Namur standard, VDI / VDE3845
Positioner connection	: Namur standard, VDI / VDE3845
Solenoid Valve connection	: Namur standard, VDI / VDE3845
Stroke Adjustment	: Both directions open and close positions (±5%)
Change to Single Acting	: Add springs



Double Acting Actuator

RA ... SR Serie

Single Acting Rotary Pneumatic Actuators



Single Acting Actuator

Application	: Ball Valve, Butterfly Valve, Plug Valve, Dampers on-off / proportional control
Size	: RA 40 SR ... RA 400 SR
Supply Pressure Air	: 3.5 - 8 bar
Output Torque Value	: 9.5 Nm ... 1218 Nm
Body	: Extruded Aluminium / Cast Aluminium
Caps and Pistons	: Die cast Aluminium
Temperature	: -10 °C...80°C
Valve connection	: ISO 5211 / DIN3337 standard
Limit Switch connection	: Namur standard, VDI / VDE3845
Positioner connection	: Namur standard, VDI / VDE3845
Solenoid Valve connection	: Namur standard, VDI / VDE3845
Stroke Adjustment	: Both directions open and close positions (±5%)
Change to Double Acting	: Without springs

RA ... 3P Serie

3 Position Acting Rotary Pneumatic Actuators

Application	: Ball Valve, Butterfly Valve, Plug Valve, Dampers on-off control, filling systems
Size	: RA 40 3P ... RA 120 3P
Supply Pressure Air	: 4 - 6 bar
Output Torque Value	: 18 Nm ... 330 Nm
Body	: Extruded Aluminium
Caps and Pistons	: Die cast Aluminium
Temperature	: -10 °C...80°C
Valve connection	: ISO 5211 / DIN3337 standard
Limit Switch connection	: Namur standard, VDI / VDE3845
Positioner connection	: Namur standard, VDI / VDE3845
Solenoid Valve connection	: Namur standard, VDI / VDE3845
Stroke Adjustment	: Both directions open and close positions (±5%) From caps stroke adjustment: 20°, 30°, 50°, 75°



3 - Position Actuator

RA ... 8D Serie / RA ... 2D

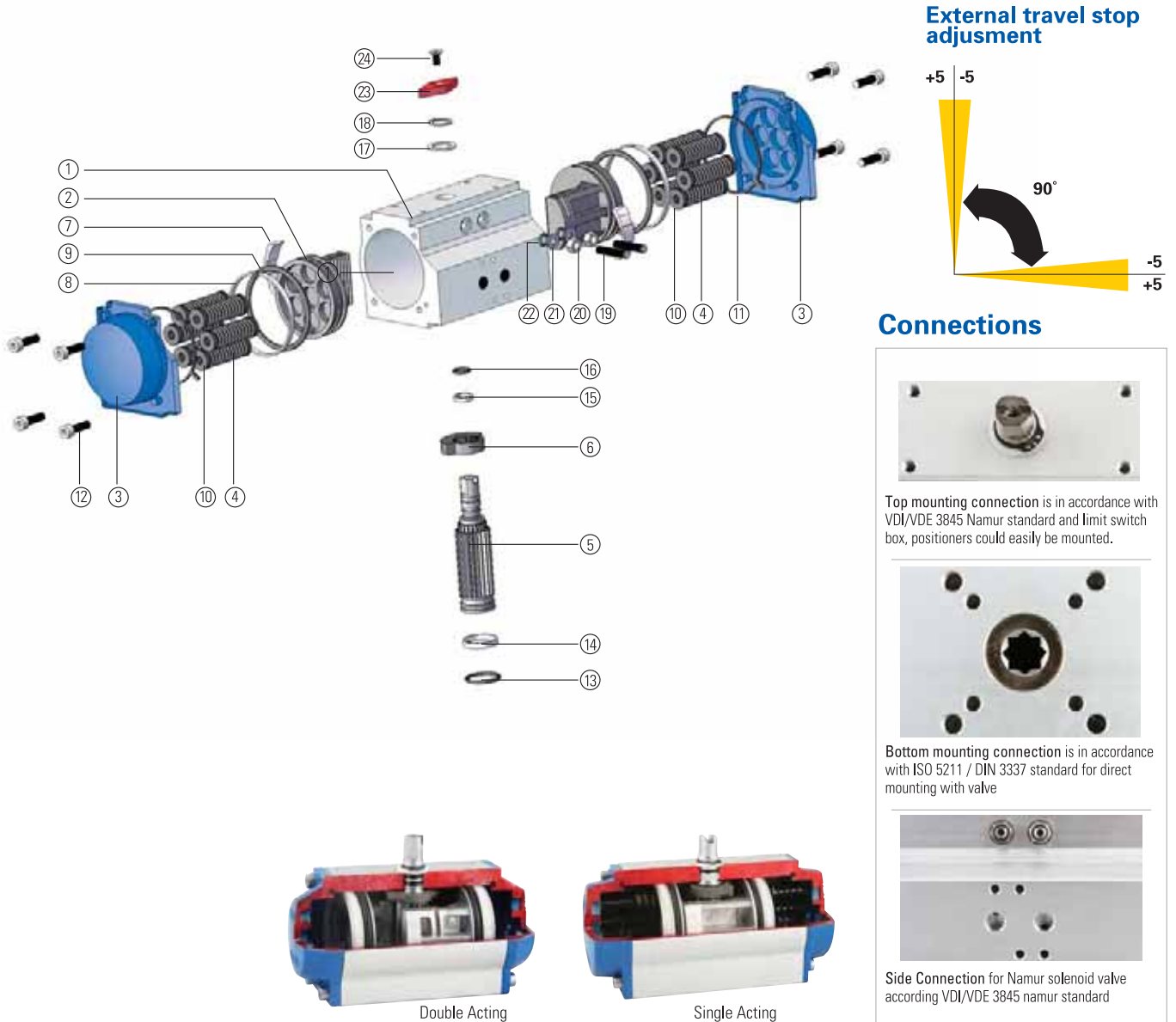
120°, 180° Turn Rotary Pneumatic Actuators



180° Turn Actuator

Application	: Ball Valve, Butterfly Valve, Plug Valve, Dampers on-off control, filling systems
Size	: RA 40 8D ... RA 120 8D (180° turn) RA 40 2D ... RA 120 2D (120° turn)
Supply Pressure Air	: 4 - 6 bar
Output Torque Value	: 18 Nm ... 330 Nm
Body	: Extruded Aluminium
Caps and Pistons	: Die cast Aluminium
Temperature	: -10 °C...80°C
Valve connection	: ISO 5211 / DIN3337 standard
Limit Switch connection	: Namur standard, VDI / VDE3845
Positioner connection	: Namur standard, VDI / VDE3845
Solenoid Valve connection	: Namur standard, VDI / VDE3845

RA SERIES : SPARE PARTS LIST



Connections



Top mounting connection is in accordance with VDI/VDE 3845 Namur standard and limit switch box, positioners could easily be mounted.

Bottom mounting connection is in accordance with ISO 5211 / DIN 3337 standard for direct mounting with valve

Side Connection for Namur solenoid valve according VDI/VDE 3845 namur standard

PART NO	UNIT / Q'TY	PART DESCRIPTION	STANDARD MATERIAL
1	1	BODY	EXTRUDED ALUMINIUM ALLOY
2	2	PISTON	DIE CAST ALUMINIUM
3	2	CAP	DIE CAST ALUMINIUM
4	min.5/max.12	SPRING	HIGH ALLOY SPING STEEL
5	1	PINION	STEEL ALLOY
6	1	CAM (STOP ARRANGEMENT)	STAINLESS STEEL
7	2	BEARING (PISTON BACK)	POLYPHTALAMIDE
8	2	BEARING (PISTON SLIDING)	POLYPHTALAMIDE
9	2	"O" RING (PISTON)	NITRILE (NBR70)
10	min.5/max.12	SPRING HOLDER	POLYPROPYLENE + GF
11	2	"O" RING (CAP)	NITRILE (NBR70)
12	8	CAP BOLT	STAINLESS STEEL
13	1	"O" RING (PINION BOTTOM)	NITRILE (NBR70)
14	1	BEARING (PINION BOTTOM)	POLYPHTALAMIDE
15	1	BEARING (PINION TOP)	POLYPHTALAMIDE
16	1	"O" RING (PINION TOP)	NITRILE (NBR70)
17	1	THRUST BEARING (PINION)	POLYPHTALAMIDE
18	1	SPRING CLIP (PINION)	STEEL ALLOY
19	2	STOP SET SCREW	STAINLESS STEEL
20	2	STOP NUT	STAINLESS STEEL
21	2	STOP SET SCREW WASHER	STAINLESS STEEL
22	2	"O" RING (STOP SET SCREW)	NITRILE (NBR70)
23	1	INDICATOR	POLYPROPYLENE + GF
24	1	INDICATOR SCREW	STAINLESS STEEL

Torque diagram of TORK Actuators

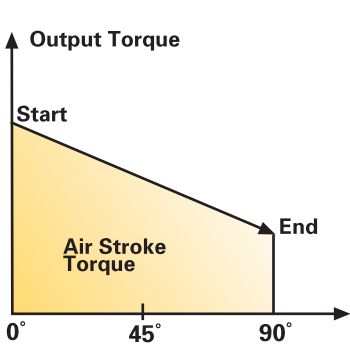


Diagram of TORK Actuator, RA... .SR Serie

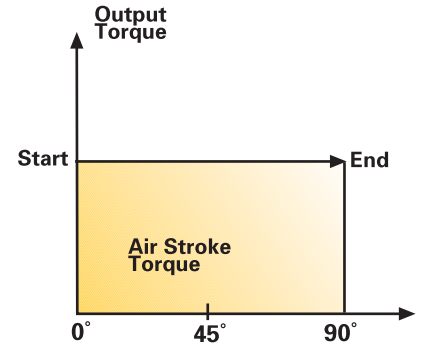
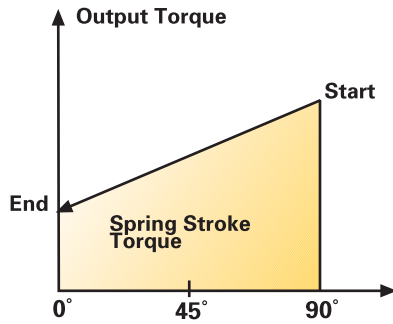
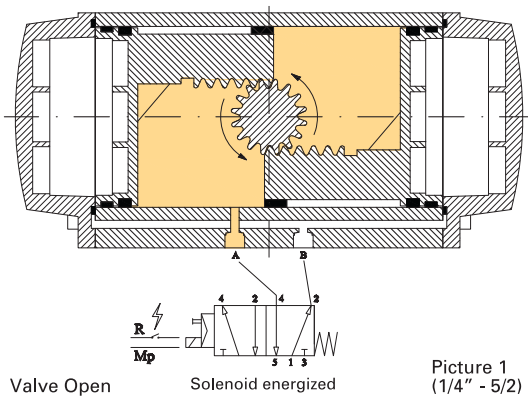
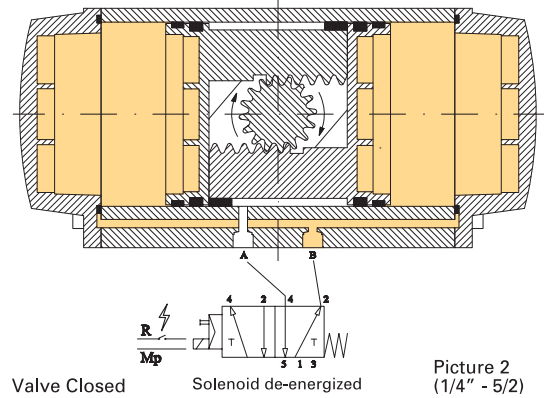


Diagram of TORK Actuator, RA... .DA Serie

Operation of TORK Actuator, RA... .DA Serie

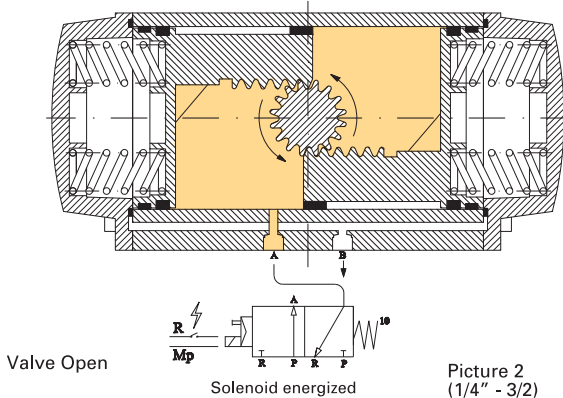


Picture 1 (1/4" - 5/2)

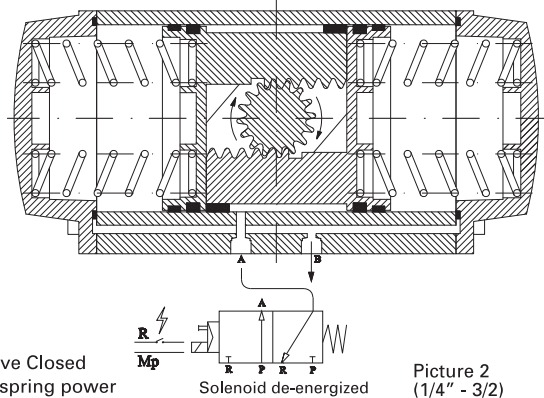


Picture 2 (1/4" - 5/2)

Operation of TORK Actuator, RA... .SR Serie

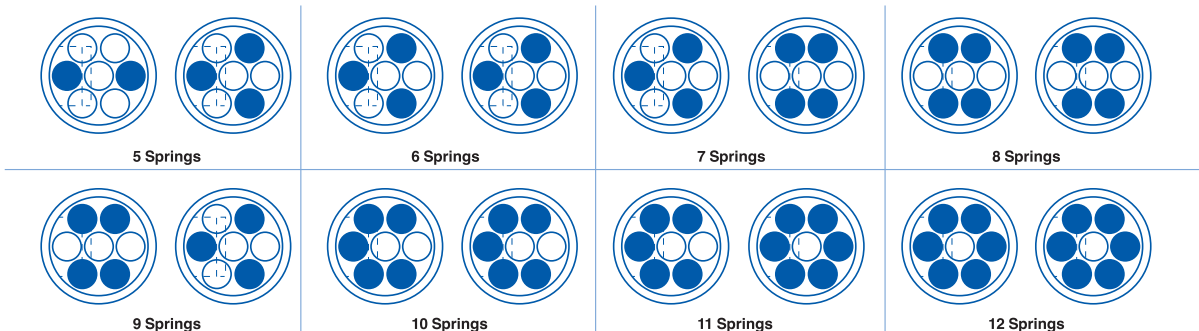


Picture 2 (1/4" - 3/2)



Picture 2 (1/4" - 3/2)

Spring arrangement of TORK Actuator, RA... .SR Serie



DOUBLE ACTING TORQUE VALUE (According to supplied air pressure range)



RA 32 DA



DOUBLE ACTING TORQUE RATING (Nm)

MODEL	Air Supply Pressure (bar)											
	2.5	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5	8
RA 32 DA	2.0	3	4.0	5	6.0	7	8.0	9	10.0	11	12.0	13
RA 40 DA	7.5	9	10.5	12	13.5	15	16.5	18	19.5	21	22.5	24
RA 60 DA	14	18	22	26	30	34	38	42	46	50	54	58
RA 80 DA	26	38	50	62	74	86	98	110	122	134	146	158
RA 100 DA	73	88	103	118	133	148	163	178	193	208	223	238
RA 120 DA	137.5	165	192.5	220	247.5	275	302.5	330	357.5	385	412.5	440
RA 143 DA	240	288	336	385	433	480	529	578	626	674	722	770
RA 160 DA	321	385	450	510	576	642	705	765	833	897	963	1024
RA 200 DA	628	752	878	1000	1127	1252	1377	1500	1630	1752	1880	2005
RA 400 DA	1214	1454	1697	1933	2178	2420	2662	2900	3154	3378	3634	3876

SPRING RETURN TORQUE VALUE (According to supplied air pressure range and springs quantity)



SPRING RETURN TORQUE RATING (Nm)

MODEL	Spring Set	Air Supply Pressure																		Spring Torque									
		2.5 bar		3 bar		3.5 bar		4 bar		4.5 bar		5 bar		5.5 bar		6 bar		6.5 bar		7 bar		7.5 bar		8 bar		0°	90°		
		0° Start	90° End	0° Start	90° End	0° Start	90° End	0° Start	90° End	0° Start	90° End	0° Start	90° End	0° Start	90° End	0° Start	90° End	0° Start	90° End	0° Start	90° End	0° Start	90° End	0° Start	90° End	0°	90°		
RA 40 SR	S05			3.0	0.5	4.5	2.0	6.0	3.5	7.5	5.0	9.0	6.5	10.5	8.0	12.0	9.5	13.5	11.0	15.0	12.5	16.5	14.0	18.0	15.5	6.0	8.5		
	S06					3.3	0.3	4.8	1.8	6.3	3.3	7.8	4.8	9.3	6.3	10.8	7.8	12.3	9.3	13.8	10.8	15.3	12.3	16.8	13.8	7.2	10.2		
	S07							3.6	0.1	5.1	1.6	6.6	3.1	8.1	4.6	9.6	6.1	11.1	7.6	12.6	9.1	14.1	10.6	15.6	12.1	8.4	11.9		
	S08											5.4	1.4	6.9	2.9	8.4	4.4	9.9	5.9	11.4	7.4	12.9	8.9	14.4	10.4	9.6	13.6		
	S09													5.7	1.2	7.2	2.7	8.7	4.2	10.2	5.7	11.7	7.2	13.2	8.7	10.8	15.3		
	S10															6.0	1.0	7.5	2.5	9.0	4.0	10.5	5.5	12.0	7.0	12.0	17.0		
	S11																	6.3	0.8	7.8	2.3	9.3	3.8	10.8	5.3	13.2	18.7		
	S12																		6.6	0.6	8.1	2.1	9.6	3.6	14.4	20.4			
	RA 60 SR	S05			9.9	1.8	13.9	5.8	17.9	9.8	21.9	13.8	25.9	17.8	29.9	21.8	33.9	25.8	37.9	29.8	41.9	33.8	45.9	37.8	49.9	41.8	8.1	16.3	
		S06					12.3	2.5	16.3	6.5	20.3	10.5	24.3	14.5	28.3	18.5	32.3	22.5	36.3	26.5	40.3	30.5	44.3	34.5	48.3	38.5	9.8	19.5	
		S07							14.6	3.3	18.6	7.3	22.6	11.3	26.6	15.3	30.6	19.3	34.6	23.3	38.6	27.3	42.6	31.3	46.6	35.3	11.4	22.8	
		S08							13.0	0.0	17.0	4.0	21.0	8.0	25.0	12.0	29.0	16.0	33.0	20.0	37.0	24.0	41.0	28.0	45.0	32.0	13.0	26.0	
S09										15.4	0.8	19.4	4.8	23.4	8.8	27.4	12.8	31.4	16.8	35.4	20.8	39.4	24.8	43.4	28.8	14.6	29.3		
S10												17.8	1.5	21.8	5.5	25.8	9.5	29.8	13.5	33.8	17.5	37.8	21.5	41.8	25.5	16.3	32.5		
S11														20.1	2.3	24.1	6.3	28.1	10.3	32.1	14.3	36.1	18.3	40.1	22.3	17.9	35.8		
S12																		22.5	3.0	26.5	7.0	30.5	11.0	34.5	15.0	38.5	19.0	19.5	39.0
RA 80 SR		S05			16.5	5.0	28.5	17.0	40.5	29.0	52.5	41.0	64.5	53.0	76.5	65.0	88.5	77.0	100.5	89.0	112.5	101.0	124.5	113.0	136.5	125.0	21.5	33.0	
		S06					24.2	10.4	36.2	22.4	48.2	34.4	60.2	46.4	72.2	58.4	84.2	70.4	96.2	82.4	108.2	94.4	120.2	106.4	132.2	118.4	25.8	39.6	
		S07					19.9	3.8	31.9	15.8	43.9	27.8	55.9	39.8	67.9	51.8	79.9	63.8	91.9	75.8	103.9	87.8	115.9	99.8	127.9	111.8	30.1	46.2	
		S08							27.6	9.2	39.6	21.2	51.6	33.2	63.6	45.2	75.6	57.2	87.6	69.2	99.6	81.2	111.6	93.2	123.6	105.2	34.4	52.8	
	S09								35.3	14.6	47.3	26.6	59.3	38.6	71.3	50.6	83.3	62.6	95.3	74.6	107.3	86.6	119.3	98.6	138.7	59.4			
	S10										43.0	20.0	55.0	32.0	67.0	44.0	79.0	56.0	91.0	68.0	103.0	80.0	115.0	92.0	43.0	66.0			
	S11												50.7	25.4	62.7	37.4	74.7	49.4	86.7	61.4	98.7	73.4	110.7	85.4	47.3	72.6			
	S12														58.4	30.8	70.4	42.8	82.4	54.8	94.4	66.8	106.4	78.8	51.6	79.2			
	RA 100 SR	S05	44.7	20.9	59.7	35.9	74.7	50.9	89.7	65.9	104.7	80.9	119.7	95.9	134.7	110.9	149.7	125.9	164.7	140.9	179.7	155.9	194.7	170.9	209.7	185.9	28.3	52.1	
		S06			54.0	25.5	69.0	40.5	84.0	55.5	99.0	70.5	114.0	85.5	129.0	100.5	144.0	115.5	159.0	130.5	174.0	145.5	189.0	160.5	204.0	175.5	34.0	62.5	
		S07					63.3	30.1	78.3	45.1	93.3	60.1	108.3	75.1	123.3	90.1	138.3	105.1	153.3	120.1	168.3	135.1	183.3	150.1	198.3	165.1	39.7	72.9	
		S08							72.7	34.7	87.7	49.7	102.7	64.7	117.7	79.7	132.7	94.7	147.7	109.7	162.7	124.7	177.7	139.7	192.7	154.7	45.3	83.3	
S09											82.0	39.3	97.0	54.3	112.0	69.3	127.0	84.3	142.0	99.3	157.0	114.3	172.0	129.3	187.0	144.3	51.0	93.8	
S10													91.3	43.8	106.3	58.8	121.3	73.8	136.3	88.8	151.3	103.8	166.3	118.8	181.3	133.8	56.7	104.2	
S11															100.7	48.4	115.7	63.4	130.7	78.4	145.7	93.4	160.7	108.4	175.7	123.4	62.3	114.6	
S12																	110.0	53.0	125.0	68.0	140.0	83.0	155.0	98.0	170.0	113.0	68.0	125.0	
RA 120 SR		S05	80.0	34.6	107.5	62.1	135.0	89.6	162.5	117.1	190.0	144.6	217.5	172.1	245.0	199.6	272.5	227.1	300.0	254.6	327.5	282.1	355.0	309.6	382.5	337.1	57.5	102.9	
		S06			96.0	41.5	123.5	69.0	151.0	96.5	178.5	124.0	206.0	151.5	233.5	179.0	261.0	206.5	288.5	234.0	316.0	261.5	343.5	289.0	371.0	316.5	69.0	123.5	
		S07					112.0	48.4	139.5	75.9	167.0	103.4	194.5	130.9	222.0	158.4	249.5	185.9	277.0	213.4	304.5	240.9	332.0	268.4	359.5	295.9	80.5	144.1	
		S08							128.0	55.3	155.5	82.8	183.0	110.3	210.5	137.8	238.0	165.3	265.5	192.8	303.0	220.3	320.5	247.8	348.0	275.3	92.0	164.7	
	S09									144.0	62.3	171.5	89.8	199.0	117.3	226.5	144.8	254.0	172.3	281.5	199.8	309.0	227.3	336.5	254.8	103.5	185.3		
	S10										160.0	69.2	187.5	96.7	215.0	124.2	242.5	151.7	270.0	179.2	297.5	206.7	325.0	234.2	115.0	205.8			
	S11												176.0	76.1	203.5	103.6	231.0	131.1	258.5	158.6	286.0	186.1	313.5	213.6	126.5	226.4			
	S12														192.0	83.0	219.5	110.5	247.0	138.0	274.5	165.5	302.0	193.0	138.0	247.0			
	RA 143 SR	S02						169.5	37.3	217.5	85.3	264.5	132.3	313.5	181.3	362.5	230.3	410.5	278.3	458.5	326.3	506.5	374.3	554.5	422.3	215.5	347.7		
	RA 160 SR	S02						226.7	50.7	292.7	116.7	358.7	182.7	421.7	245.7	481.7	305.7	549.7	373.7	613.7	437.7	679.7	503.7	740.7	564.7	283.3	459.3		
	RA 200 SR	S02						336.7	107.8	463.7	234.8	588.7	359.8	713.7	484.8	836.7	607.8	966.7	737.8	1088.7	859.8	1216.7	987.8	1341.7	1112.8	663.3	892.2		
	RA 400 SR	S02						682.7	251.3	927.7	496.3	1169.7	738.3	1411.7	980.3	1649.7	1218.3	1903.7	1472.3	2127.7	1696.3	2383.7	1952.3	2625.7	2194.3	1250.3	1681.7		

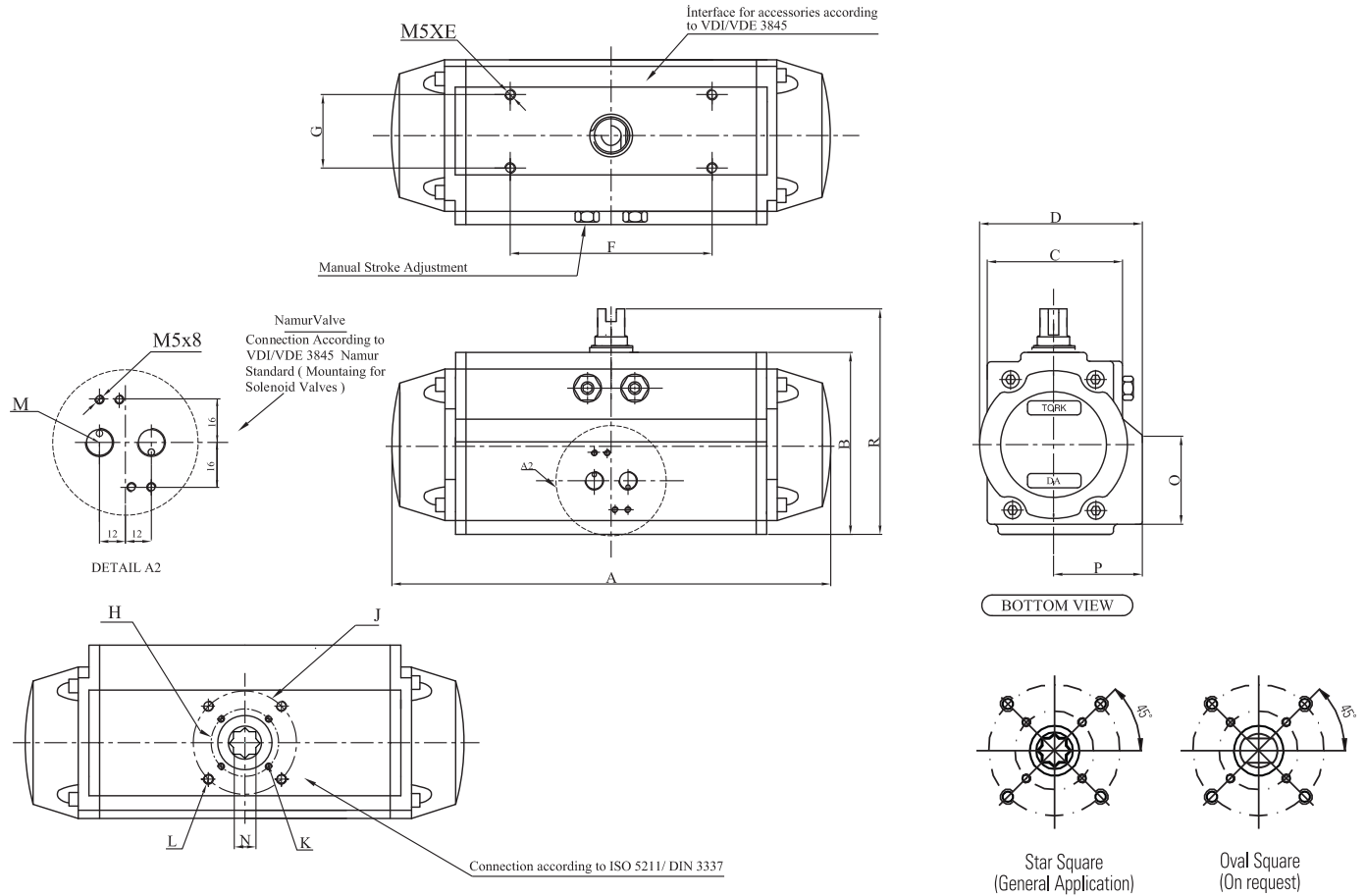
Note: The yellow pointed values above are the output torque of actuator. Please pay attention to these values while choosing valve for actuator.

*For Actuator 0° : Start : Closed position actuator, 90° : End : Open position actuator

*For Spring 0° : Spring mounting position, 90° : Spring pressed by pistons

*1 bar: 14,5 PSI 1 Nm: 8,85 LB-in 1 KgM: 9,81 Nm

DIMENSION OF TORK ACTUATORS



DIMENSION (mm)

ACTUATOR MODELS	A	B	C	D	E	F	G	H	J	K	L	M	N	O	P	R	ISO Flange for H	ISO Flange for J
RA 32 DA	98	45	46	-	8.0	50	25	36	-	M5	-	1/8"	9	-	-	66	F03	-
RA 40 DA/SR	137.2	70.0	52.0	70.6	8.0	80.0	30.0	36/42/50	-	M5	M6	1/8"	9/11	45.0	39.7	90.0	F03/F04	F05
RA 60 DA/SR	172.6	85.2	62.0	82.7	8.0	80.0	30.0	42/50	70.0	M5/M6	M8	1/8"	9/11/14	47.0	47.0	105.2	F04/F05	F07
RA 80 DA/SR	242.0	116.9	91.8	109.2	8.0	80.0	30.0	50	70.0	M6	M8	1/8"	14	54.8	58.3	136.9	F05	F07
RA 100 DA/SR	282.0	130.0	95.0	121.0	8.0	80.0	30.0	70	102.0	M8	M10	1/4"	17	61.0	65.0	160.0	F07	F10
RA 120 DA	360.0	160.0	116.2	150.0	8.0	80.0	30.0	70	102.0	M8	M10	1/4"	17/22	82.0	87.2	190.0	F07	F10
RA 143 DA	342	190	182	182	8.0	80.0	30.0	102	140	M10	M16	1/4"	22/27	91	91	210	F10	F14
RA 160 DA	374	216	202	202	8.0	80.0	30.0	102	140	M10	M16	1/4"	22/27	101	101	236	F10	F14
RA 200 DA	458	268	242	242	8.0	80.0	30.0	-	140/165	-	M20	1/4"	36	121	121	288	-	F14/F16
RA 400 SR	458	595	245	245	8.0	80.0	30.0	-	140/165	-	M20	1/4"	36	123	123	615	-	F14/F16
RA 143 SR	514	190	182	182	8.0	80.0	30.0	102	140	M10	M16	1/4"	22/27	91	91	210	F10	F14
RA 160 SR	558	216	202	202	8.0	80.0	30.0	102	140	M10	M16	1/4"	22/27	101	101	236	F10	F14
RA 200 SR	680	268	242	242	8.0	80.0	30.0	-	140/165	M16	M20	1/4"	36	121	121	288	-	F14/F16
RA 400 SR	680	595	245	245	8.0	80.0	30.0	-	140/165	M16	M20	1/4"	36	123	123	615	-	F14/F16

ACTUATOR MODELS	Air Volume Opening (L)	Air Volume Closing (L)	Opening Time (Sec.)	Closing Time (Sec.)	Approximate weight (kg)
RA 32 DA	DA	0.03	0.02	0.1	0.4
RA 40 DA/SR	DA	0.09	0.16	0.22	0.85
	SR			0.26	1.02
RA 60 DA/SR	DA	0.17	0.28	0.27	1.70
	SR			0.33	1.80
RA 80 DA/SR	DA	0.50	0.79	0.39	3.80
	SR			0.48	4.40
RA 100 DA/SR	DA	0.73	1.15	0.52	4.90
	SR			0.63	6.10
RA 120 DA/SR	DA	1.61	2.45	0.95	9.60
	SR			1.15	11.40
RA 143 DA	DA	2.85	1.95	1.15	13.00
RA 160 DA	DA	3.25	2.56	2.40	19.10
RA 200 DA	DA	6.41	5.50	3.40	33.40
RA 400 DA	DA	12.60	10.80	4.30	72.00
RA 143 SR	SR	2.85	4.70	3.20	17.60
RA 160 SR	SR	3.25	5.36	3.80	26.80
RA 200 SR	SR	6.41	10.50	4.80	45.90
RA 400 SR	SR	12.60	20.79	5.90	98.00

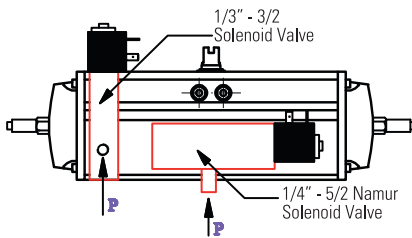


Principle of operation for 3-Position actuators:

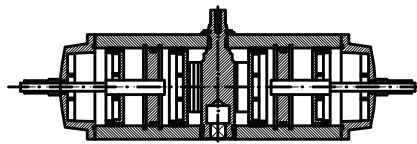
3 position actuators are used in filling systems. (Ball or butterfly valves)
 1st. operation: actuator turns 90° and valve open 100% (5/2 way solenoid)
 2nd. operation: Actuator is closed (0-45°) on chosen value. (Value changable with stroke screws) (3/2 way solenoid)
 3rd. operation: Actuator is closed and the valve is 100% closed. (Both solenoid valves are de-energized)

Special version :

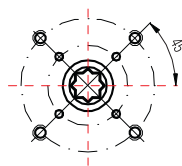
- 180° actuators (half turn rather than quarter turn)
- 3-position actuators for 3 way valves.
- Actuator with hydraulic speed control, for very slow operating speed.



Controlled by two solenoid valves (1/4"- 3/2 and 1/4"-5/2 spring return solenoid valves)



BOTTOM VIEW



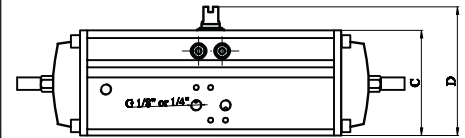
Star Square (General Application)



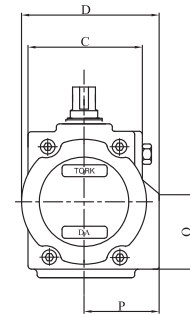
Application

APPLICATION

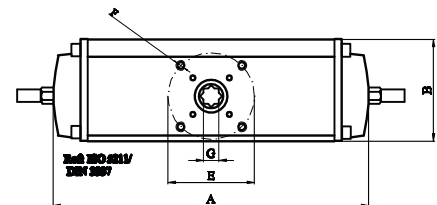
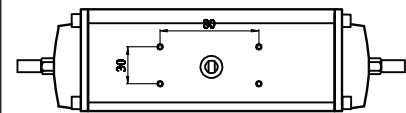
- Generally used in filling systems
- With Ball Valves
- With Butterfly Valves



NAMUR VDI/VDE 3845
STANDART ENGAGEMENT



NAMUR VDI/VDE 3845
NAMUR STANDARD



3-Position Actuator types, dimension and output torques

Type Order Number	P: 6 bar Torque	Dimension (mm)										ISO 5211 Flange	Operating time (sec.)		Air consumption (lt.)		Weight (kg)
		A	B	C	D	H	J	K	L	N	Opening		Closing	Open	Close		
RA ...3P	Nm																
RA 40.3P	18	210	70.6	70	90	36/42/50	-	M5	M6	1/8"	F03 / F04	0.2	0.25	0.13	0.2	1.3	
RA 60.3P	42	264	82.7	85.2	105.2	42/50	70.0	M5/M6	M8	1/8"	F04 / F05 / F07	0.5	0.6	0.22	0.34	3	
RA 80.3P	110	302	109.2	116.9	136.9	50	70.0	M6	M8	1/8"	F05 / F07	1	1.1	0.7	1.02	5.2	
RA 100.3P	178	352	121	130	160	70	102.0	M8	M10	1/4"	F07 / F10	1.4	1.45	0.95	1.6	7.4	
RA 120.3P	330	453	150	160	190	70	102.0	M8	M10	1/4"	F07 / F10	1.95	2.1	2.05	2.85	14.2	



5/2 way



3/2 way

5/2 way

5/2 way (Ex.)



5/2 way



Panel mounting

APPLICATION

- Pneumatic Rotary actuator
- 5/2 way for Double Acting actuator
- 3/2 way for Single Acting actuator

Namur Solenoid Valve Type

Type Order Number	Valve Position, Way Namur Standard	Standard Coil (IP 65)	On Request Coil (EExmdII.T4)	Coil Voltage	Manuel Lock	Weight (g)
T-NM52.W1S	1/4" - 5/2 Single coil	C20	C21	220 V AC 110 V AC 24 V AC 12 V AC 24 V DC 12 V DC	Standard	0.25
T-NM52.W2S	1/4" - 5/2 Double coil					0.3
T-NM32.W1S	1/4" - 3/2 Single coil					0.25

Specify coil type and voltage with order Protection class: IP 65 (Standard), ATEX Ex: EExmd II T4 (On request). For other types solenoid valves; contact us.

MOUNTING KITS

Mounting kits are used to connect actuators with valves (if valve isn't according to ISO 5211 standard, it needs a mounting kit.)

- 1- Brackets: Cast aluminium body epoxy coated
- 2- Brackets: Steel / stainless steel body
- 3- Coupling: Steel / stainless steel body



Parts of mounting kits

FILTER REGULATOR

Filter + regulator + lubricator

Type	Features	Size
FR+LM142008RPESA	Automatic drain	1/4"
FR+CM122008RPESA	Automatic drain	1/2"
T-FR100	Automatic drain	1/4"

Type	Features	Size
MRR1812R	Micro regulator	1/8"
MRR1412R	Micro regulator	1/4"
RG93	High accuracy regulator	1/4"





LS10.2M

- On-off valve position indicator
- Compact, small body
- Protection class: IP 67 waterproof
- Small body, Aluminium die cast
- Bolts on visual position indicator
- Body is composed of Aluminium die cast and powder coating
- Dual cable entries: NPT
- Easy mounting bracket Namur standard, stainless steel shaft and bracket
- LS20.2M and LS30.2M exproof



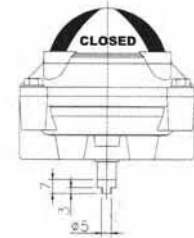
LS20.2M



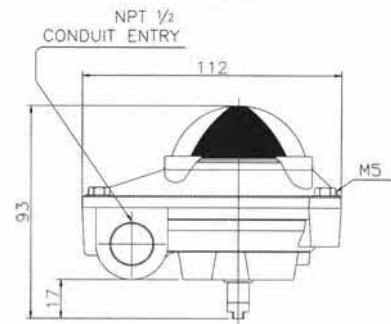
LS30.2M

APPLICATION

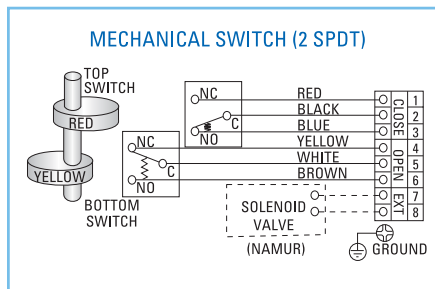
- Pneumatic rotary actuator
- Actuated ball valves and butterfly valves
- Dampers
- Position of actuated valve is shown by switch box indicator



STANDARD NAMUR SHAFT (mm)



Application
(Proximity Limit Switch Box)



Application
(LS, limit switch box)

Limit switch box types for order

Type Order Number	Features	Position Indicator	Bracket	Body	Weight (kg)
LS10.2M	2 mechanical limit switches 250 V AC / 3A, IP 67	Closed: Red Open: Yellow	Stainless steel bracket <i>Stainless steel Namur Standard</i>	Aluminium die cast -20 ÷ 80°C	1
LS10.2PP	2 proximity switches 2 cable entries holes				1
LS20.2M	2 mechanical limit switches 250 V AC / 3A, 2 SPDT E EXd IIBT6, IP 67, IP 68 (Option)				3.6
LS20.2PP	2 proximity switches E EXd IIBT6, IP 67, IP 68 (Option)				3.6
LS30.2M	2 mechanical limit switches 250 V AC / 3A, IP 67 E EXd IICT6, E EXia IICT6, IP 67, IP 68 (Option)				3.6
LS30.2PP	2 proximity switches 2 cable entries holes E EXd IICT6, E EXia IICT6, IP 67, IP 68 (Option)				3.6

M: Mechanical limit switch, P: Proximity limit switch



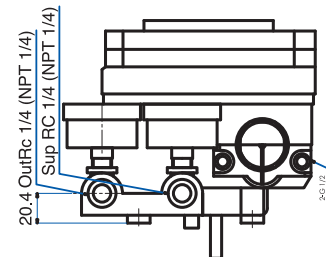
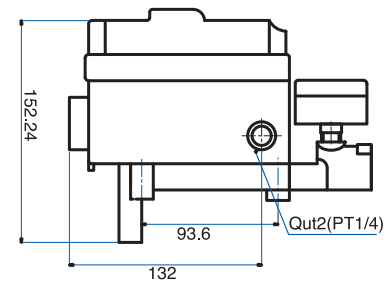
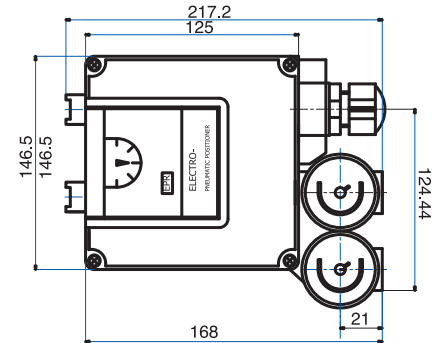
> **Input signal : 4-20mA; 24 V DC**

T-EP.R
Electro Pneumatic
Rotary Type Positioner

APPLICATION

• Positioners are used on pneumatic actuated valves for proportional control

- For Rotary Actuator, easy maintenance
- Simple SPAN and Zero adjustments, precise calibration
- Simple conversion to direct acting, reverse acting
- Air Consumption: 5 LPM (sup. 1.4 kgf/cm³)
- Linearity : With in $\pm 1.5\%$ F.S (Full scale)
- Sensitivity : With in $\pm 0.5\%$ F.S (Full scale)
- Repeatability : With in $\pm 0.5\%$ F.S (Full scale)
- Body Material: Aluminium Die cast corrosion-resistant coating
- Protection Class : IP 66 weatherproof
Options: Flame proof Exmd II B T5, ATEX
Exmd II C T5
- Intrinsic safety (Exia II B T6)
- Position Feedback (optional) : Position transmitter 4-20 mA output signal (only for weatherproof) Two SPDT Limit switches
- Certified for EMC (Kn046 / E04) in conformance with EN 6100 6.2.2 by RNTUV



> **Input signal: 3 - 15 psi (0.2 - 1.0 bar)**

T-PP.R
Pneumatic Pneumatic
Rotary Type Positioner



Electro-Pneumatic Positioner

Type Order Number	Input Signal and Air supply	Protection Class	Bracket	Body	Air Consumption	Weight
T-EPR	mA / bar	I/P 66	Namur	Body	Kgf/Cm³	(kg)
T-EP.R Rotary	4-20 mA / max. 7 bar	I/P 66	80 x 30	Aluminium die cast	5LPM (1.4) Kgf/cm ³	2.9
T-EP.L Lineer	4-20 mA / max. 7 bar	I/P 66	80 x 30	Aluminium die cast	5LPM (1.4) Kgf/cm ³	2.9

Pneumatic -Pneumatic Positioner

Type Order Number	Input Signal and Air supply	Repeatability	Bracket	Body	Air Consumption	Weight
T-EPR	mA / bar	%F.S	Namur	Body	Kgf/Cm³	(kg)
T-PP.R Rotary	3-15 psi / max. 7 bar	Within $\pm 0.5\%$ F.S	80 x 30	Aluminium die cast	5LPM (1.4) Kgf/cm ³	2.1
T-PP.L Lineer	3-15 psi / max. 7 bar	Within $\pm 0.5\%$ F.S	80 x 30	Aluminium die cast	5LPM (1.4) Kgf/cm ³	2.1



APPLICATION

• T-MOR Series gear operators offer a simple and reliable method of local manual operation, as emergency control on air failure or as a local control in the event of controller malfunction. As such, when the hand wheel is clutched in, the valve is under local manual control and remote control is "locked out".

Type Order Number	Torque Value	Body	Ambient Temp.	Weight
T-MOR	Nm		°C	(kg)
T-MOR 100	100	Cast iron	-20/80	1.5
T-MOR 450	450			4.4
T-MOR 750	750			10.2
T-MOR 1500	1500			36
T-MOR 3500	3500			38

ELECTRO PNEUMATIC TRANSDUCERS

- Small size, light weight
- Low air consumption
- Mounts at any angle
- Low supply pressure sensitivity
- Low cost
- CE approval

The type T-1000 transducer is an electro-pneumatic device that reduces a supply pressure to a regulated output pressure directly proportional to an electrical input signal.

T-1000 accepts a wide range of supply pressure ranging from a minimum of 3 psi (0.2 bar) above the maximum output up to 100 psi (6.9 bar)

Transducer I/P and E/P

Type Order Number	Input signal	Output Signal	Air Supply	Linearity	Supply Pressure Sensitivity	Hysteresis	Air Consumption	Weight
T-1000	mA / V	psi	bar				kgf/cm ³	(kg)
T-1000 I/P	4-20 mA	3-15 psi	7	<1.0 %	± 0.15% of Span per 1.5 bar	<1% of span	<1% of span	0.75
T-1000 E/P	0-5V							0.75



4 - 20

POSITION TRANSMITTER

- Power supply range : 12 V ... 30 V DC
- Output Signal : 4-20 mA
- Span : Adjustable from 10° ... 100° of angular rotation
- Null : 4 mA position may be set at any angular rotation
- Repeatability : ± 0.25 % F.S [Full scale]
- Linearity : ± 1.0 % F.S
- Hysteresis : ± 1.0 % F.S
- Explosion proof : Exd II B T6 (on request)

- Protection : IP 66 (Standard)
- Operating temperature : -20°C ... 70°C
- Conduit connection : 2.G 1/2 or NPT 1/2
- Measuring position feedback
- Note that the input signal should be provided for measurement of output signal.
 - 1- With a mA loop calibrator select measurement mode and connect + and -
 - 2- With a multimeter tester (mA)

APPLICATION

• T-PT.R rotary types are the 2-wire devices that generate 4-20 mA output signal with position feedback from the control valve.



Type Order Number	Output Signal	Power Supply	Repeatability	Body	Protection	Weight
T-PT.R	mA		F.S.			(kg)
T-PT.R Rotary	4-20 mA	12 ... 30 V DC	0.25% F.S.	Aluminium die cast	IP 66	2.3

Actuated Ball Valves, 2/2 and 3/2 Way, AISI 316 Body

Application : Liquid, gas, air, water, hot water, steam
On Request : Limit switch box, positioner, Namur solenoid valve, manual override
Type No : RAV903.DA, RAV903.SR, RAV904.DA, RAV904.SR
Actuator : RA..DA / SR rotary pneumatic actuator Double / Single
Supply Air : 4-6 bar. Stroke adjustment
Ball Valve : Body: AISI 316 Stainless steel, 2/2 or 3/2 way, screwed connection and ISO5211 standard actuator
Pressure : PN40, PN16
Temperature : -30...180°C
Size : 1/2" ... 2"

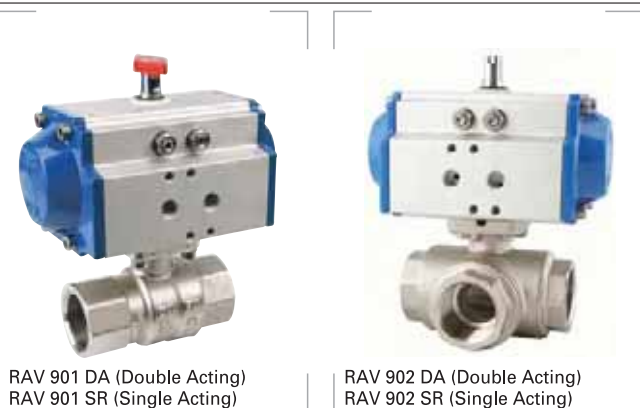


RAV 904 DA (Double Acting)
RAV 904 SR (Single Acting)



RAV 903 DA (Double Acting)
RAV 903 SR (Single Acting)

Actuated Ball Valves, 2/2 and 3/2 Way, Brass Body



RAV 901 DA (Double Acting)
RAV 901 SR (Single Acting)



RAV 902 DA (Double Acting)
RAV 902 SR (Single Acting)

Application : Liquid, gas, air, water, hot water, steam
On Request : Limit switch box, positioner, namur solenoid valve, manual override
Type No : RAV901.DA, RAV901.SR, 2/2 way RAV902.DA, RAV902.SR, 3/2 way
Actuator : RA..DA/SR rotary pneumatic actuator Double / Single
Supply Air : 4-6 bar. Stroke adjustment
Ball Valve : Body: Brass, 2/2 or 3/2 way, screwed connection and ISO5211 standard actuator
Pressure : PN40, PN16
Temperature : -30...130°C
Size : 1/2" ... 2"

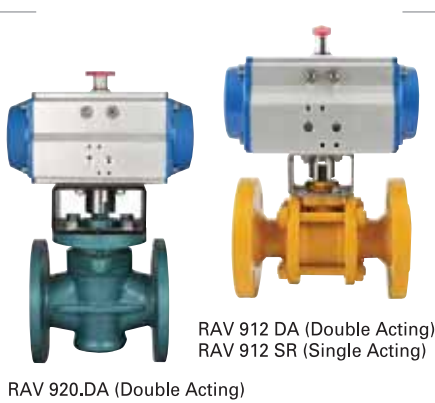
Actuated Ball Valves, 2/2 and 3/2 Way, Flanged Connection, Stainless Steel

Application : Liquid, gas, air, water, hot water, steam
On Request : Limit switch box, positioner, namur solenoid valve, manual override
Type No : RAV905.DA, RAV905.SR
Actuator : RA..DA/SR rotary pneumatic actuator Double / Single
Supply Air : 4-6 bar. Stroke adjustment
Ball Valve : Body: AISI 316 and Cast iron, 2/2 or 3/2 way, flanged connection and ISO5211 standard actuator
Pressure : PN40, PN16
Temperature : -30..180°C
Size : NW15 ... NW200 Flange



RAV 905 DA / RAV 905 SR

Actuated Naturalgas Ball Valves and Plug Valves, 2/2 Way, Flanged Connection



RAV 912 DA (Double Acting)
RAV 912 SR (Single Acting)

RAV 920.DA (Double Acting)

Application : Liquid, gas, air, water, hot water, steam
 Natural gas, LPG Gas
On Request : Limit switch box, positioner, namur solenoid valve, manual override
Type No : RAV920.DA, RAV920.SR RAV912.DA, RAV912.SR
Actuator : RA..DA/SR rotary pneumatic actuator Double / Single
Supply Air : 4-6 bar. Stroke adjustment
Ball Valve : Body: AISI 316 and Cast iron, 2/2 or 3/2 way, flanged connection and ISO5211 standard actuator
Pressure : PN40, PN16
Temperature : -30..180°C
Size : NW15 ... NW200 Flange

Actuated Ball Valves, 2/2 Way, Monoblock

- Application** : Liquid, gas, air, water, hot water, steam
Natural gas, LPG Gas
- On Request** : Limit switch box, positioner, Namur solenoid valve, manual override
- Type No** : RAV909.DA, RAV909.SR
- Actuator** : RA..DA/SR rotary pneumatic actuator
Double / Single
- Supply Air** : 4-6 bar. Stroke adjustment
- Ball Valve** : Body: AISI 316 and Cast iron, 2/2 way
wafer type, flanged connection
and ISO5211 standard actuator
- Pressure** : PN40, PN16
- Temperature** : -30..180°C
- Size** : NW15 ... NW100 Flange



RAV 909 DA (Double Acting)
RAV 909 SR (Single Acting)

Actuated Ball Valves, 2/2 Way, Monoblock, Cast Iron Body



RAV 910 DA (Double Acting)
RAV 910 SR (Single Acting)

- Application** : Liquid, gas, air, water, hot water, steam
Natural gas, LPG Gas
- On Request** : Limit switch box, positioner, Namur solenoid valve, manual override
- Type No** : RAV910.DA, RAV910.SR
- Actuator** : RA..DA/SR rotary pneumatic actuator
Double / Single
- Supply Air** : 4-6 bar. Stroke adjustment
- Ball Valve** : Body: Cast iron, 2/2 way
wafer type, flanged connection
and ISO5211 standard actuator
- Pressure** : PN40, PN16
- Temperature** : -30..180°C
- Size** : NW15 ... NW100 Flange

Actuated Ball Valve, 2/2 ve 3/2 Way, PVC Body

- Application** : Liquids, acid, water
- On Request** : Limit switch box, positioner, Namur solenoid valve, manual override
- Type No** : RAV913.DA, RAV913.SR
- Actuator** : RA..DA/SR rotary pneumatic actuator
Double / Single
- Supply Air** : 4-6 bar. Stroke adjustment
- Ball Valve** : Body: PP, 2/2 or 3/2 way
screwed or welding connection
and ISO5211 standard actuator
- Pressure** : PN40, PN16
- Temperature** : -10..80°C
- Size** : NW15 ... NW100



RAV 913.SR / RAV 913.DA

Actuated Ball Valve, Flanged / Screwed Connection 2/2 ve 3/2 Way, Cast Iron Body



RAV 907F.15 DA
RAV 907F.15 SR
2/2 Way



RAV 908F.15 DA
RAV 908F.15 SR
3/2 Way

- Application** : Liquid, gas, air, water, hot water, steam
Natural gas, LPG Gas
- On Request** : Limit switch box, positioner, Namur solenoid valve, manual override
- Type No** : **Flanged** RAV907F.DA, RAV907F.SR,
RAV908F.DA, RAV908F.SR
Screwed RAV907S.DA, RAV907S.SR,
RAV908S.DA, RAV908S.SR
- Actuator** : RA..DA/SR rotary pneumatic actuator Double / Single
- Supply Air** : 4-6 bar. Stroke adjustment
- Ball Valve** : Body: AISI 316 and Cast iron, 2/2 or
3/2 way, screwed / flanged connection
and ISO5211 standard actuator
- Pressure** : PN40, PN16
- Temperature** : -30..180°C
- Size** : NW15 ... NW200 Flange

Actuated Valves, 2/2 Way for Food Industry

Application : Liquid, Food industry, Hygienic
Natural gas, LPG Gas

On Request : Limit switch box, positioner, namur
solenoid valve, manual override

Type No : RAV813.DA, RAV813.SR

Actuator : RA..DA/SR rotary pneumatic actuator
Double / Single

Supply Air : 4-6 bar. Stroke adjustment

Ball Valve : Body: AISI 316 and Cast iron, 2/2 way,
and ISO5211 standard actuator

Pressure : PN16 / PN10

Temperature : -30..140°C

Size : NW15 ... NW100



RAV 813.DA (Double acting)
RAV 813.SR (Single acting)

Actuated Butterfly Valves, Wafer and Lug Types



RAV 800. DA Serie
RAV 800. SR Serie



RAV 801. DA Serie
RAV 801. SR Serie

Application : Liquid, gas, air, water, hot water, steam
Natural gas, LPG Gas

On Request : Limit switch box, positioner, Namur
solenoid valve, manual override

Type No : RAV800.DA, RAV800.SR,
RAV801.DA, RAV801.SR

Actuator : RA..DA/SR rotary pneumatic actuator Double / Single

Supply Air : 4-6 bar. Stroke adjustment

Butterfly Valve : Body: GG25 Epoxy or Rilsan coated, Disc: AISI 316
Butterfly type KVW121 and KVL 141,
ISO5211 standard actuator

Pressure : PN10, PN16

Temperature : -30..140°C, Seal: EPDM

Size : NW50 ... NW600

Actuated Butterfly Valves, Wafer and Lug Types for Industrial applications

Application : Liquid, gas, air, water, hot water, steam
Natural gas, LPG Gas

On Request : Limit switch box, positioner, Namur
solenoid valve, manual override

Type No : RAV802.DA, RAV802.SR,
RAV803.DA, RAV803.SR

Actuator : RA..DA/SR rotary pneumatic actuator Double / Single

Supply Air : 4-6 bar. Stroke adjustment

Butterfly Valve : Body: GG25 Epoxy or Rilsan coated, Disc: AISI 316
Butterfly type KVW 1140 and KVL 1120,
ISO5211 standard actuator

Pressure : PN10, PN16

Temperature : -30..140°C, Seal: EPDM or Viton or PTFE or Silicon

Size : NW25 ... NW800 Flange



RAV 802 DA Serie



RAV 803 DA Serie

Actuated Butterfly Valves, Lug Types



PVC Body butterfly valve



RAV 804 DA

Application : Liquids

On Request : Limit switch box, positioner, Namur
solenoid valve, manual override

Type No : RAV804.DA, RAV804.SR

Actuator : RA..DA/SR rotary pneumatic actuator Double / Single

Supply Air : 4-6 bar. Stroke adjustment

Butterfly Valve : Body: GG25 Epoxy / PP, Disc: AISI 316
ISO5211 standard actuator

Pressure : PN10, PN16

Temperature : -30..140°C, Seal: EPDM

Size : NW25 ... NW800 Flange

Actuated Butterfly Valves, Wafer / Lug Types - Teflon Seated

Application : Liquid, gas, air, water, hot water, steam
On Request : Limit switch box, positioner, Namur solenoid valve, manual override
Type No : RAV805.DA, RAV805.SR, RAV806.DA, RAV806.SR
Actuator : RA..DA/SR rotary pneumatic actuator Double / Single
Supply Air : 4-6 bar. Stroke adjustment
Butterfly Valve : Body: GG25 Rilsan coated or AISI316, Disc: AISI 316 ISO5211 standard actuator
Pressure : PN10, PN16
Temperature : -30..140°C, Seal: PTFE
Size : NW50 ... NW300 Flange



RAV 805. DA Serie (Double)



RAV 806. DA Serie (Double)

Actuated Ball Valve, 2/2 ve 3/2 Way, PVC Body



RAV 812.DA
RAV 812.SR

Application : Liquids, acid, water
On Request : Limit switch box, positioner, Namur solenoid valve, manual override
Type No : RAV812.DA, RAV812.SR
Actuator : RA..DA/SR rotary pneumatic actuator Double / Single
Supply Air : 4-6 bar. Stroke adjustment
Ball Valve : Body: PP, 2/2 or 3/2 way screwed or welding connection and ISO5211 standard actuator
Pressure : PN6, PN10
Temperature : -10..80°C
Size : NW15 ... NW100

Actuated Butterfly Valves, Wafer Flanged Types

Application : Liquid, gas, air, water, hot water, steam
On Request : Limit switch box, positioner, Namur solenoid valve, manual override
Type No : RAV810.DA, RAV810.SR,
Actuator : RA..DA/SR rotary pneumatic actuator Double / Single
Supply Air : 4-6 bar. Stroke adjustment
Butterfly Valve : Body: GG25 Epoxy or Rilsan coated, Disc: AISI 316 Butterfly type KVL 1150, KVL 1160, KVL 1170 ISO5211 standard actuator
Pressure : PN10, PN16
Temperature : -30..140°C, Seal: EPDM or Viton or PTFE or Silicon
Size : NW350 ... NW900 Flange



RAV 810 DA (Double Acting)

Ball Valve, Stainless Steel, Screwed Connection; Manuel and ISO5211 Flanged type



T-KV 903



T-KV 903K



T-KV 904



T-KV 904 K

Bal Valve : Body: AISI 316 Stainless steel, 2/2 or 3/2way, screwed connection, ISO5211 standard actuator
Pressure : PN40, PN16
Temperature : -30..180 C
Size : 1/2"2" screwed
Control : Manual override
 ISO5211 Flanged actuator control
 T-KV903, 2/2 way screwed connection, ISO5211 Flanged
 T-KV903K, 2/2 way screwed connection, manual override
 T-KV904, 3/2 way screwed connection, ISO5211 Flanged
 T-KV904, 3/2 way screwed connection, manual override

Ball Valve, Brass Body, Screwed Connection; Manual and ISO5211 Flanged type

Bal Valve : Body: Brass, 2/2 or 3/2 way, screwed connection, ISO5211 standard actuator

Pressure : PN40, PN16

Temperature : -30..180 C

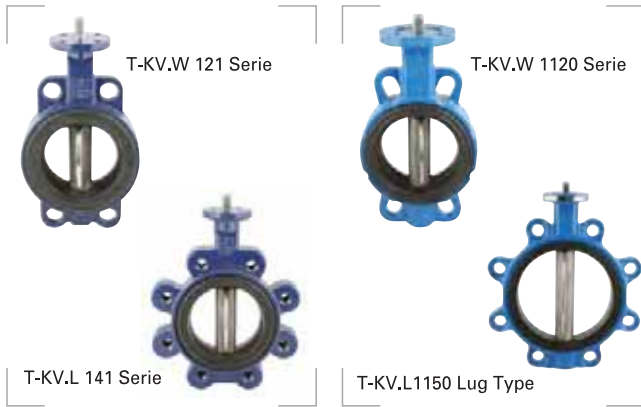
Size : 1/2" 2" screwed

Control : Manual override
ISO5211 Flanged actuator control

T-KV901, 2/2 way screwed connection, ISO5211 Flanged
T-KV901K, 2/2 way screwed connection, manual override
T-KV902, 3/2 way screwed connection, ISO5211 Flanged
T-KV902, 3/2 way screwed connection, manual override



Butterfly Valve Wafer Type and Lug Type



Butterfly Valve : Body: GG25 Epoxy or rilsan coated stainless steel ve ISO5211 standard actuator flange connection or interconnection

Body Type : Wafer tip, LUG tip

Disc : Stainless steel, on request: GG25 epoxy coated,

Rubber diaphragm : EPDM (-30...140°C), on request: Viton, PTFE, Silicon

Pressure : PN6, on request: PN10, PN16

Temperature : -30..140°C

Size : NW25" NW600"

Seal Option : EPDM
T-KV.W121 serie wafer / T-KV.W141 serie lug type
EPDM, PTFE, VITON, NİTRİL
T-KV.W1120 Seri wafer / T-KV.W1150 sere lug type

Ball Valve, Monoblock, Cast Iron and Stainless Steel Body

T-KV 909 Stainless Monoblock Ball Valve
T-KV 910 Cast Iron Monoblock Ball Valve
T-KV 903F Stainless Steel Flanged Monoblock Ball Valve
T-KV 910F Flanged Monoblock Ball Valve

Body : Cast iron / Stainless steel

Sphere : Stainless steel

Pressure : PN16, PN40, PN63

Way : 2/2, 3/2

On request : Steam jacketed type

Size : NW15 ... NW100

Temperature : -20 °C ... 180°C



PVC Küresel Vanalar ve Hijyen Vanalar



T-PKV 912 PVC Ball Valve
T-HSV Stainless Steel Hygiene Valve
T-DKV 812 Diaphragm Valve
T-PKV 812 PVC Butterfly Valve

Size : NW15 ... NW100

Temperature : -20 °C....80°C

Pressure : PN10, PN 16

Application : Liquids, aggressive fluid types, food industry, particle fluid types

Why hydraulic actuator?

- > Small size
- > High torque value



Model SA-H

APPLICATION

- Ball valves
- Butterfly valves
- Dampers
- Other hydraulic systems

Working pressure : 100 bar/210 bar
 Working temperature : -10°C ... +75°C
 Valve mounting standard : DIN ISO 5211
 Turned angle : 90° ±1°

- On request :
- Mechanic limit switch
 - Proximity limit switch
 - Spring return pneumatic actuator



Application

Hydraulic actuators and output torque

Actuator Type	100 bar control pressure, output torque value (Nm)	210 bar control pressure, output torque value (Nm)
SA - H 30	30 Nm	63 Nm
SA - H 42	90 Nm	200 Nm
SA - H 55	210 Nm	441 Nm
SA - H 63	300 Nm	630 Nm
SA - H 80	700 Nm	1512 Nm
SA - H 100	1450 Nm	3087 Nm
SA - H 125	2100 Nm	4620 Nm
SA - H 140	3000 Nm	6300 Nm



Butterfly valve recommended at 100 bar for hydraulic actuators

Valve size NW	25 32 40	50 65 100 125	150 200	250	300 350 400	500	600
Actuator type	SA-H 30	SA-H 42	SA-H 55	SA-H 63	SA-H 80	SA-H 100	SA-H 125

Butterfly valve recommended at 220 bar for hydraulic actuators

Valve size NW	25, 32, 40, 50, 65, 80	100, 125, 150, 200	250	300	350, 400, 500	600
Actuator type	SA-H 30	SA-H 42	SA-H 55	SA-H 63	SA-H 80	SA-H 100

Contact us for different applications.





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Solenoid Valves



Pneumatic Actuators



Angle - Seated Piston Valves



Limit Switch Boxes



Pneumatic Actuated Valves



Electric Actuated Valves



Flow Measuring Instruments



Pressure Measuring Instruments



Level Measuring Instruments



Temperature Measuring Instruments

