XAT Series Pneumatic Actuator

XAT–52DA

XAT–63DA

XAT–75DA

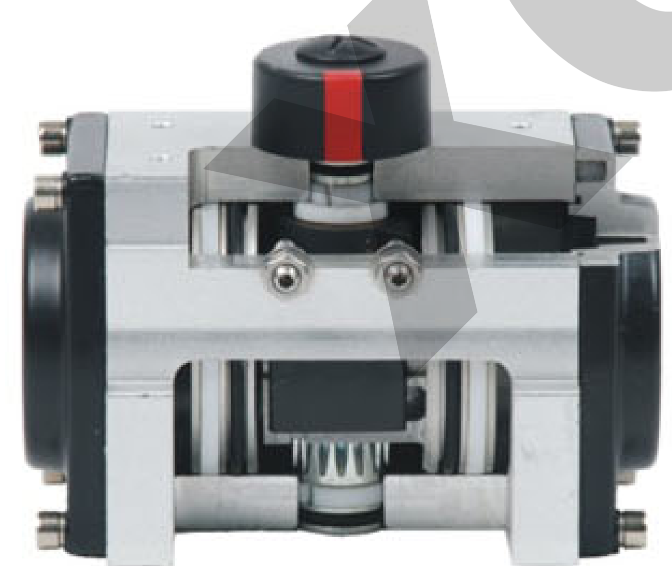
Ordering Code

X	AT	75	—	DA	—	□
XCPC Product	**Actuator Type**	**Size** 32-270mm		**Return Type** DA:Air Return Type SR:Spring Return Type		**Qty of Spring** 5~12pcs

Designing Features

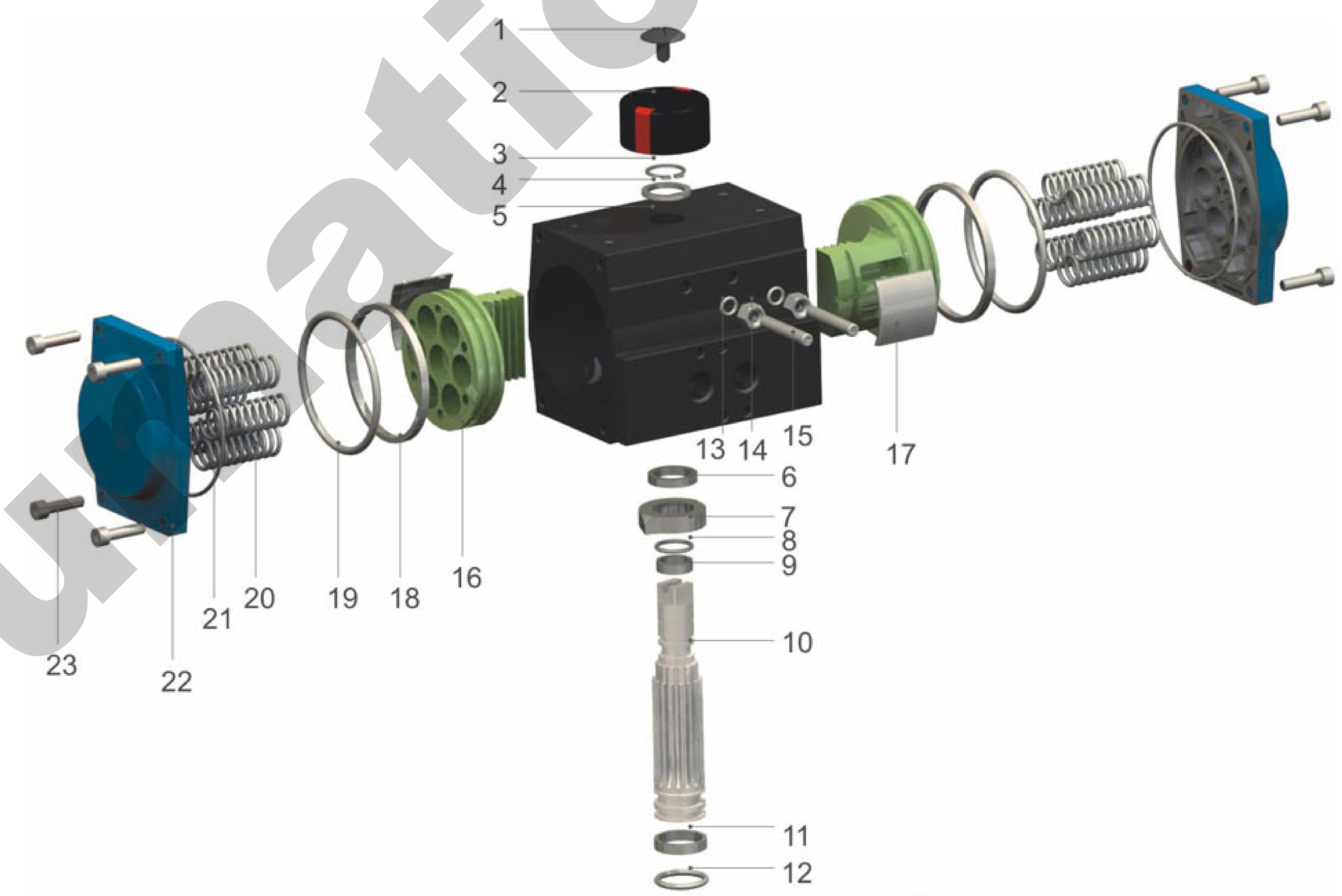
Designing Features (of XCPC 10 Series Pneumatic Actuator)

- Extruded aluminum ASTM6005 body with both internal and external corrosion protection having honed cylinder surface for longer life and low coefficient of friction.
- Dual piston rack and pinion design for compact construction, symmetric mounting position, high-cycle life and fast operation, reverse rotation can be accomplished in the field by simply inverting the pistons.
- Multiple bearings and guides on racks and pistons, low friction, high cycle life and prevent shaft blowout.
- Modular preloaded spring cartridge design, with coated spring for simple versatile range,greater safely and corrosion resistance, longer cycle life.
- Fully machined teeth on piston and pinion for accurate low backlash rack and pinion engagement, maximum efficiency.
- Carbon steel with nickel plated or stainless steel fasteners for long term corrosion resistance.
- Full conformance to the latest specifications: ISO5211, DIN 3337 and Namur or product interchangeability and easy mounting of solenoids, limit switches and other accessories.



XAT Series Pneumatic Actuator

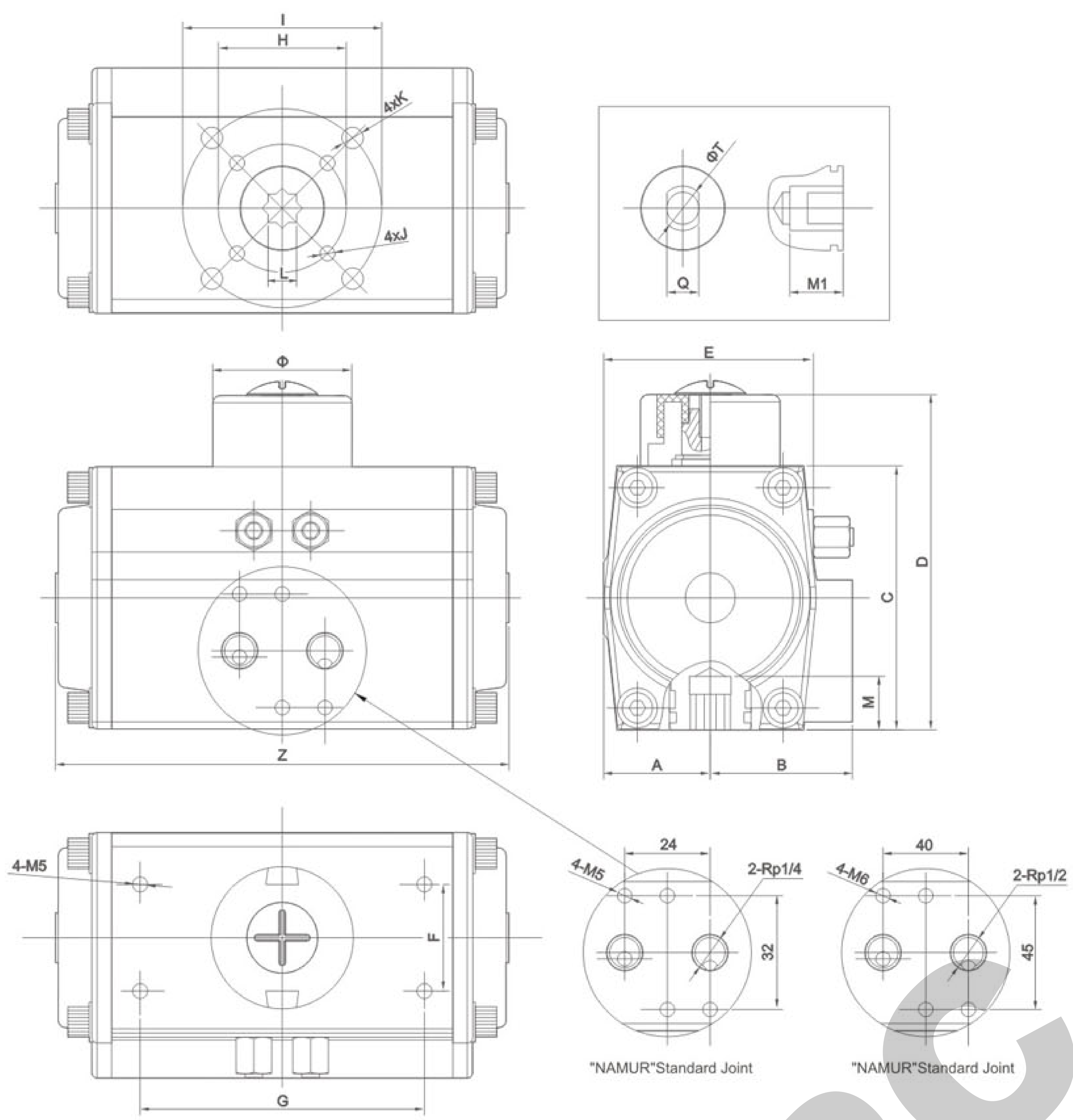
Part List &Material



No	Designation	Qty	Standard Material	Protection	Optional Material
1	Indicator Screw	1	Plastics		
2	Indicator	1	Plastics		
3	Circlip	1	Carbon Steel	Nickel Plated	Stainless Steel
4	Gasket	1	Engineering Plastics		
5	Body	1	Cast Aluminum	Hard Anodize, Etc	
6	Retainer Ring	1	Engineering Plastics		
7	Cam	1	Steel Alloy		
8	O Ring (Upper Bearing)	1	NBR		Fluorine Rubber/Silicone Rubber
9	Upper Bearing	1	Engineering Plastics		
10	Pinion	1	Carbon Steel/Stainless Steel	Nickel Plated	
11	Lower Bearing	1	Engineering Plastics		Stainless Steel
12	O Ring (Lower Bearing)	1	NBR		Fluorine Rubber/Silicone Rubber
13	O Ring (Adjust Screw)	2	NBR		Fluorine Rubber/Silicone Rubber
14	Nut (Adjust Screw)	2	Carbon Steel	Nickel Plated	Stainless Steel
15	Adjust Screw	2	Carbon Steel	Nickel Plated	Stainless Steel
16	Piston	2	Cast Aluminum/Casting	Anodized/Zinc Galvanized	Stainless Steel
17	Guide (Piston)	2	Engineering Plastics		
18	O Ring (Piston)	2	NBR		Fluorine Rubber/Silicone Rubber
19	Washer (Piston)	2	Engineering Plastics		
20	Spring (Single Acting)	0~12	Spring Steel	Dipping Paint	
21	O Ring (End Cap)	2	NBR		Fluorine Rubber/Silicone Rubber
22	End Cap	2	Cast Aluminum	Powder Coating, Etc	
23	Cap Screw	8	Carbon Steel	Nickel Plated	Stainless Steel

XAT Series Pneumatic Actuator

Overall Dimensions

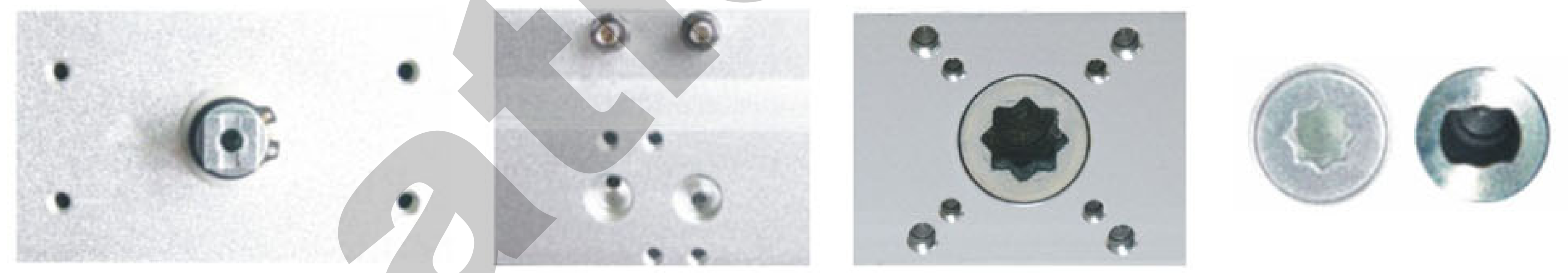


Dimension Sheet

Model	A	B	C	D	E	F	G	H	I	J	K	L	M	Z	Φ	Air joint
32DA	20	25	45	65		25	50	Φ36		M5x8		9x9	12	100	40	NAMUR Rp 1/8"
40DA	25	32	60	80	50	25	50	Φ36	Φ50	M5x8	M6x8	9x9	12	108	40	NAMUR Rp 1/8"
52DA/SR	30	40	74.3	95	59	30	80	Φ36	Φ50	M5x8	M6x8	11x11	15	135	40	NAMUR Rp 1/4"
63DA/SR	36	44	88	107.5	74	30	80	Φ50	Φ70	M6x10	M8x13	14x14	16	142	40	NAMUR Rp 1/4"
75DA/SR	42	50	100.5	121	80.5	30	80	Φ50	Φ70	M6x10	M8x13	14x14	16	168	40	NAMUR Rp 1/4"
83DA/SR	46	57	108.5	128.7	88	30	80	Φ50	Φ70	M6x10	M8x13	17x17	19	188	40	NAMUR Rp 1/4"
92DA/SR	50	57	117	137	96.5	30	80	Φ50	Φ70	M6x10	M8x13	17x17	22	192	40	NAMUR Rp 1/4"
105DA/SR	57.5	64	133	153	109.5	30	80	Φ70	Φ102	M8x13	M10x16	22x22	26	258	40	NAMUR Rp 1/4"
127DA/SR	68.5	69	161	181	132	30	80/130	Φ70	Φ102	M8x13	M10x16	22x22	26	310	55	NAMUR Rp 1/4"
140DA/SR	75	77	180	200	137.5	30	80/130	Φ102	Φ125	M10x16	M12x20	27x27	31	370	55	NAMUR Rp 1/4"
160DA/SR	86	78	198	218	158	30	80/130	Φ102	Φ125	M10x16	M12x20	27x27	31	397	55	NAMUR Rp 1/4"
190DA/SR	103	103	230	260	189	30	130		Φ140		M16x25	36x36	40	525	80	NAMUR Rp 1/4"
210DA/SR	113	113	255	285	210	30	130		Φ140		M16x25	36x36	40	532	80	NAMUR Rp 1/4"
240DA/SR	129	129	290	320	245	30	130		Φ165		M20x25	46x46	50	602	80	NAMUR Rp 1/4"
270DA/SR	146	146	326	356	273	30	130		Φ165		M20x25	46x46	50	722	80	NAMUR Rp 1/2"

XAT Series Pneumatic Actuator

Connection Type and Weight



Connection Type

1. Air supply connection is designed in accordance with NAMUR Standard to install solenoid valves.
2. The NAMUR drive pinion and the NAMUR top mounting connection permit direct installation of accessories such as limit switch box and positioner.
3. Bottom mounting connection is designed in accordance with ISO5211 and DIN3337 standards for direct mounting with valve gear boxes or mounting brackets.

New Type

New connection types are continued researching and developing.

Customer Need

We can design and produce all kinds of connection types according to customer'needs.

Air Volume (cm^3)

Model	32	40	52	63	75	83	92	105	127	140	160	190	210	240	270
CW	40	65	135	220	350	540	760	1100	2150	2950	4260	5900	7500	11000	17000
CCW	30	43	110	160	270	410	570	860	1590	2100	3080	5900	7500	9000	14000

Weight (kgs)

Model	32	40	52	63	75	83	92	105	127	140	160	190	210	240	270
DA	0.5	0.75	1.1	1.96	2.4	2.9	3.95	5.8	9.3	14.5	17.5	31.3	46.8	67.3	97
SR			1.6	2.1	3	3.9	5.4	8.1	12.9	18.7	23.5	35.3	58.8	80.2	118

Note: Spring Return unit weights are with full 6 sets of springs per piston.

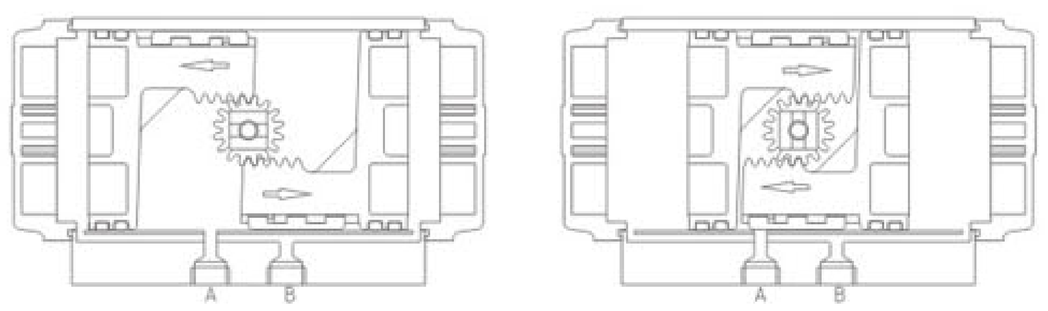
XAT Series Pneumatic Actuator

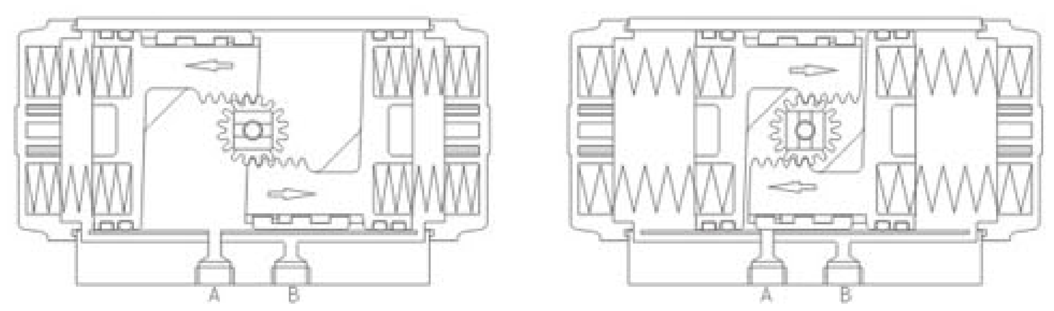
Double Acting Operating Principle

Single Acting Operating Principle

Operating Principle and Condition

CCW CW CCW CW





CCW

Input the compressed air from the A, the left and right plungers move reversely, the output pinion rotates counter-clockwise, and the air at the sides of the both plungers exhausts from B.

CW

Input the compressed air from the B, the left and right plungers move to the center, the output pinion rotates clockwise, and the air between the two plungers exhausts from A.

CCW

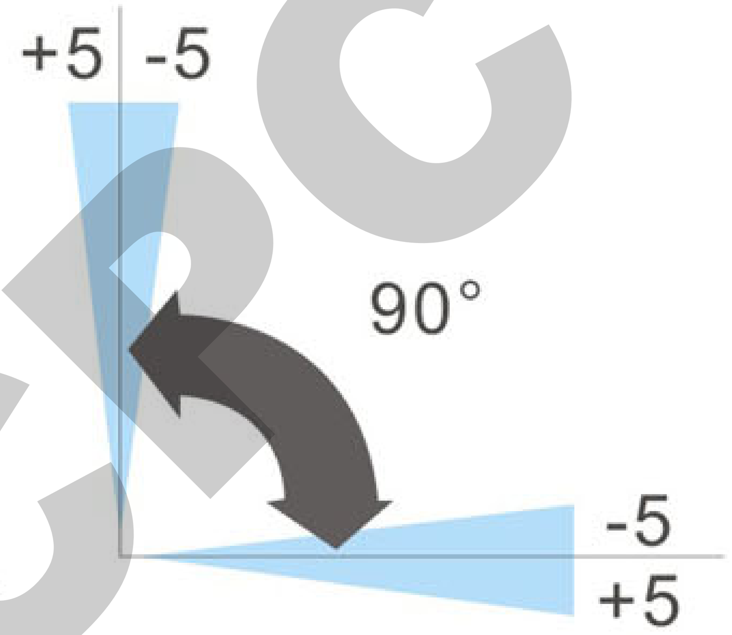
Input the compressed air from the A, the left and right plungers move reversely, the output pinion rotates counter-clockwise, and the air at the sides of the both plungers exhausts from B.

CW

When it is out of air or power, the two plungers move to the center under the spring action, the output pinion rotates clockwise, and the air exhausts from A.

Operating Condition

1. Operating Media
   Dry and clear air, or the non-corrosive gases
   The maximum particle diameter must less than 40um
2. Air Supply Pressure
   The minimum supply pressure is 2.5Bar
   The maximum supply pressure is 10Bar
3. Operating Temperature
   Standard: -20℃~+80℃
   Low temperature: -35℃~+80℃(can be customized)
   High temperature: -15℃~+150℃(can be customized)
4. Travel Adjustment
   Have adjustment range of +-5 degree for the rotation at 0 and 90 degree
5. Application
   Either indoor or outdoor

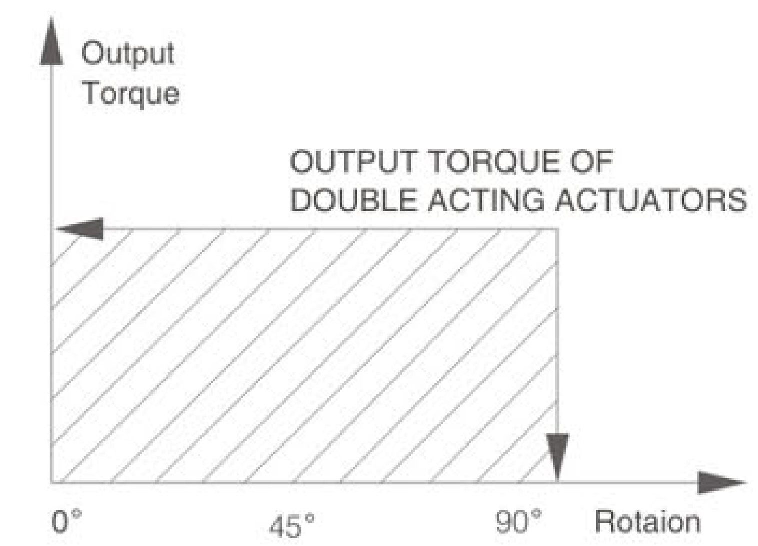


Double Acting Torque List

Torque List and Reference Selection

Model \ Torque	Air Pressure(Bar) 2.5	3	3.5	4	4.5	5	5.5	6	7	8
XAT-32DA	3.2	3.8	4.4	5.0	5.7	6.31	6.9	7.6	8.8	10.1
XAT-40DA	4.9	6.0	6.9	7.9	8.9	9.85	10.8	11.8	13.8	15.8
XAT-52DA	9.9	12.0	13.8	15.8	17.7	19.7	21.7	23.6	27.6	31.5
XAT-63DA	14.5	17.7	20.3	23.2	26.1	29.0	31.9	34.8	40.6	46.4
XAT-75DA	24.8	30.2	34.7	39.6	44.6	49.5	54.5	59.4	69.3	79.2
XAT-83DA	35.3	43.0	49.4	56.4	63.5	70.5	77.6	84.6	98.7	112.8
XAT-92DA	49.5	60.4	69.3	79.2	89.1	99.0	108.9	118.8	138.6	158.4
XAT-105DA	80.5	98.2	112.7	128.8	144.9	161.0	177.1	193.2	225.4	257.6
XAT-127DA	141.5	172.6	198.1	226.4	254.7	283.0	311.3	339.6	396.2	452.8
XAT-140DA	215.0	262.3	301.0	344.0	387.0	430.0	473.0	516.0	602.0	688.0
XAT-160DA	281.0	342.8	393.4	449.6	505.8	562.0	618.2	674.4	786.8	899.2
XAT-190DA	532.0	638.4	744.8	851.2	957.6	1064.0	1170.4	1276.8	1489.6	1702.4
XAT-210DA	665.0	798.0	931.0	1064.0	1197.0	1330.0	1463.0	1596.0	1862.0	2128.0
XAT-240DA	962.0	1154.4	1346.8	1539.2	1731.6	1924.0	2116.4	2308.8	2693.6	3078.4
XAT-270DA	1462.0	1754.4	2046.8	2339.2	2631.6	2924.0	3216.4	3508.8	4093.6	4678.4

TYPE: Double acting pneumatic actuator
The suggested safe factor for double acting actuators under normal working conditions is 20%~30%.
Example:
The torque needed by valve=100 Nm
The torque considered safe factor=100 (1+30%)=130 Nm
Air supply pressure=5Bar
According to the above table, we can choose the minimum model is XAT-105DA.



Reference Selection

Model	If air pressure	Reference	Reference	Valve	Double	ISO5211
XAT-32DA	6.3				9	F03
XAT-40DA	9.85				9	F03/05
XAT-52DA	19.7	40	2"	9	9	F03/05
XAT-63DA	29	65	2.5"	11	11	F05/07
XAT-75DA	49.5	80	3"	20	14	F05/07
XAT-83DA	70.5	100	4"	29	17	F05/07
XAT-92DA	99	100	4"	47	17	F05/07
XAT-105DA	161	125	5"	82	22	F07/10
XAT-127DA	283	150	6"	130	22	F07/10
XAT-140DA	430	250	10"	360	27	F10/12
XAT-160DA	562	250	10"	360	27	F10/12
XAT-190DA	1064	300	12"	475	36	F14
XAT-210DA	1330	350	14"	760	36	F14
XAT-240DA	1924	400	16"	1300	46	F16
XAT-270DA	2924	500	20"	2340	46	F16

XAT Series Pneumatic Actuator

Single Acting Torque List and Reference Selection

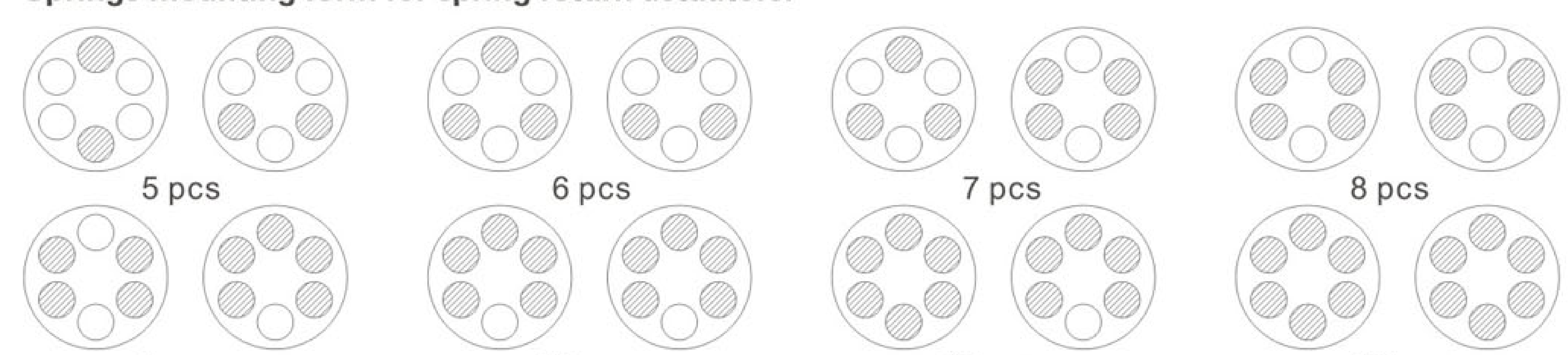
Torque / Model	Spring Sets	Spring Torque 90°	Spring Torque 0°	2.5 0°	2.5 90°	3 0°	3 90°	3.5 0°	3.5 90°	4 0°	4 90°	4.5 0°	4.5 90°	5 0°	5 90°	5.5 0°	5.5 90°	6 0°	6 90°	7 0°	7 90°	8 0°	8 90°
52	4	6.6	3.8	6.1	3.3	8.1	5.2	10.0	7.2	12.0	9.2	13.9	11.1	15.9	13.1	17.9	15.1	19.8	17.0	23.8	21.0	27.7	24.9
	5	8.3	4.8			5.1	3.6	9.0	5.5	11.0	7.5	13.0	9.5	15.0	11.5	16.9	13.4	18.9	15.4	22.8	19.3	26.8	23.3
	6	9.9	5.7					8.1	3.9	10.1	5.9	12.0	7.8	14.0	9.8	16.0	11.8	17.9	13.7	21.9	17.7	25.8	21.6
	7	11.6	6.7							9.1	4.2	11.1	6.2	13.1	8.2	15.0	10.1	17.0	12.1	20.9	16.0	24.9	20.0
	8	13.2	7.6									10.1	4.5	12.1	6.5	14.1	8.5	16.0	10.4	20.0	14.4	23.9	18.3
	9	14.9	8.6									9.2	2.9	11.2	4.9	13.1	6.8	15.1	8.8	19.0	12.7	23.0	16.7
	10	16.5	9.5											10.2	3.2	12.2	5.2	14.1	7.1	18.1	11.1	22.0	15.0
	11	18.2	10.5													11.2	3.5	13.2	5.5	17.1	9.4	21.1	13.4
	12	19.8	11.4															12.2	3.8	16.2	7.8	20.1	11.7
63	4	10.6	5.3	9.2	3.9	12.1	6.8	15.0	9.7	17.9	12.6	20.8	15.5	23.7	18.4	26.6	21.3	29.5	24.2	35.3	30.0	41.1	35.8
	5	13.3	6.7			10.8	4.1	13.7	7.0	16.6	9.9	19.5	12.8	22.4	15.7	25.3	18.6	28.2	21.5	34.0	27.3	39.8	33.1
	6	16.0	8.0					12.3	4.3	15.2	7.2	18.1	10.1	21.0	13.0	23.9	15.9	26.8	18.8	32.6	24.6	38.4	30.4
	7	18.6	9.3							13.9	4.6	16.8	7.5	19.7	10.4	22.6	13.3	25.5	16.2	31.3	22.0	37.1	27.8
	8	21.3	10.6									15.5	4.8	18.4	7.7	21.3	10.6	24.2	13.5	30.0	19.3	35.8	25.1
	9	23.9	12.0											17.0	5.1	19.9	8.0	22.8	10.9	28.6	16.7	34.4	22.5
	10	26.6	13.3													18.6	5.3	21.5	8.2	27.3	14.0	33.1	19.8
	11	29.3	14.6															20.2	5.5	26.0	11.3	31.8	17.1
	12	31.9	16.0																	24.6	8.7	30.4	14.5
75	4	18.7	10.9	13.9	6.0	18.8	11.0	23.8	15.9	28.7	20.9	33.7	25.8	38.6	30.8	43.6	35.7	48.5	40.7	58.4	50.6	68.3	60.5
	5	23.4	13.6			16.1	6.3	21.0	11.3	26.0	16.2	30.9	21.2	35.9	26.1	40.8	31.1	45.8	36.0	55.7	45.9	65.6	55.8
	6	28.1	16.3					18.3	6.6	23.3	11.5	28.2	16.5	33.2	21.4	38.1	26.4	43.1	31.3	53.0	41.2	62.9	51.1
	7	32.8	19.1							20.5	6.8	25.5	11.8	30.4	16.7	35.4	21.7	40.3	26.6	50.2	36.5	60.1	46.4
	8	37.4	21.8									22.8	7.1	27.7	12.1	32.7	17.0	37.6	22.0	47.5	31.9	57.4	41.8
	9	42.1	24.5											25.0	7.4	29.9	12.3	34.9	17.3	44.8	27.2	54.7	37.1
	10	46.8	27.2													27.2	7.7	32.2	12.6	42.1	22.5	52.0	32.4
	11	51.5	30.0															29.4	7.9	39.3	17.8	49.2	27.7
	12	56.2	32.7																	36.6	13.1	46.5	23.0
83	4	28.8	17.1	18.1	6.4	25.2	13.5	32.2	20.5	39.3	27.6	46.3	34.6	53.4	41.7	60.4	48.7	67.5	55.8	81.6	69.9	95.7	84.0
	5	36.1	21.4			20.9	6.3	27.9	13.3	35.0	20.4	42.0	27.4	49.1	34.5	56.1	41.5	63.2	48.6	77.3	62.7	91.4	76.8
	6	43.3	25.7					23.6	6.1	30.7	13.1	37.7	20.2	44.8	27.2	51.8	34.3	58.9	41.3	73.0	55.4	87.1	69.5
	7	50.5	30.0							26.4	5.9	33.5	13.0	40.5	20.0	47.6	27.1	54.6	34.1	68.7	48.2	82.8	62.3
	8	57.7	34.3									29.2	5.8	36.2	12.8	43.3	19.9	50.3	26.9	64.4	41.0	78.5	55.1
	9	64.9	38.6											31.9	5.6	39.0	12.7	46.0	19.7	60.1	33.8	74.2	47.9
	10	72.1	42.8													34.7	5.5	41.8	12.5	55.9	26.6	70.0	40.7
	11	79.3	47.1															37.5	5.3	51.6	19.4	65.7	33.5
	12	86.5	51.4																	47.3	12.2	61.4	26.3
92	4	36.7	23.7	25.8	12.8	35.7	22.7	45.6	32.6	55.5	42.5	65.4	52.4	75.3	62.3	85.2	72.2	95.1	82.1	115	102	135	122
	5	45.9	29.6	19.9	3.6	29.8	13.5	39.7	23.4	49.6	33.3	59.5	43.2	69.4	53.1	79.3	63.0	89.2	72.9	109	92.7	129	112
	6	55.1	35.5			23.9	4.3	33.8	14.2	43.7	24.1	53.6	34.0	63.5	43.9	73.4	53.8	83.3	63.7	103	83.5	123	103
	7	64.3	41.4					27.9	5.0	37.8	14.9	47.7	24.8	57.6	34.7	67.5	44.6	77.4	54.5	97.2	74.3	117	94.1
	8	73.5	47.4							31.8	5.7	41.7	15.6	51.6	25.5	61.5	35.4	71.4	45.3	91.2	65.1	111	84.9
	9	82.7	53.3									35.8	6.4	45.7	16.3	55.6	26.2	65.5	36.1	85.3	55.9	105	75.7
	10	91.8	59.2											39.8	7.2	49.7	17.1	59.6	27.0	79.4	46.8	99.2	66.6
	11	101	65.1													43.8	7.9	53.7	17.8	73.5	37.6	93.3	57.4
	12	110	71.0															47.8	8.6	67.6	28.4	87.4	48.2
105	4	63.2	34.4	46.1	17.3	62.2	33.4	78.3	49.5	94.4	65.6	111	81.7	127	97.8	143	114	159	130	191	162	223	194
	5	79.0	43.0			53.6	17.6	69.7	33.7	85.8	49.8	102	65.9	118	82.0	134	98.1	150	114	182	146	215	179
	6	94.8	51.6					61.1	17.9	77.2	34.0	93.3	50.1	109	66.2	126	82.3	142	98.4	174	131	206	163
	7	111	60.2							68.6	18.2	84.7	34.3	101	50.4	117	66.5	133	82.6	165	115	197	147
	8	126	68.8									76.1	18.5	92.2	34.6	108	50.7	124	66.8	157	99.0	189	131
	9	142	77.4											83.6	18.8	100	34.9	116	51.0	148	83.2	180	115
	10	158	86.0													91.1	19.1	107	35.2	139	67.4	172	100
	11	174	94.6															98.6	19.4	131	51.6	163	83.8
	12	190	103																	122	35.8	154	68.0
127	4	128	77.1	64.4	13.8	92.7	42.1	121	70.4	149	98.7	178	127	206	155	234	184	263	212	319	269	376	325
	5	160	96.4			73.4	10.2	102	38.5	130	66.8	158	95.1	187	123	215	152	243	180	300	237	356	293
	6	192	116							111	34.9	139	63.2	167	91.5	196	120	224	148	281	205	337	261
	7	223	135									120	31.3	148	59.6	176	87.9	205	116	261	173	318	229
	8	255	154											129	27.6	157	55.9	185	84.2	242	141	299	197
	9	287	173													138	24.0	166	52.3	223	109	279	166
	10	319	193															147	20.4	203	77.0	260	134
	11	351	212																	184	45.1	241	102
	12	383	231																	165	13.2	222	69.8

XAT Series Pneumatic Actuator

Single Acting Torque List and Reference Selection

Torque / Model	Spring Sets	Spring Torque 90°	Spring Torque 0°	2.5 0°	2.5 90°	3 0°	3 90°	3.5 0°	3.5 90°	4 0°	4 90°	4.5 0°	4.5 90°	5 0°	5 90°	5.5 0°	5.5 90°	6 0°	6 90°	7 0°	7 90°	8 0°	8 90°
140	4	181	102	113	34.3	156	77.3	199	120	242	163	285	206	328	249	371	292	414	335	500	421	586	507
	5	226	128			131	32.1	174	75.1	219	118	260	161	303	204	346	247	389	290	475	376	561	462
	6	271	153					148	29.9	191	72.9	234	116	277	159	320	202	363	245	449	331	535	417
	7	316	179							166	27.7	209	70.7	252	114	295	157	338	200	424	286	510	372
	8	361	204									183	25.6	226	68.6	269	112	312	155	398	241	484	327
	9	407	230											201	23.4	244	66.4	287	109	373	195	459	281
	10	452	255													218	21.2	261	64.2	347	150	433	236
	11	497	281															236	19	322	105	408	191
	12	542	306																	296	60	382	146
160	4	234	143	138	47	194	103	251	159	307	216	363	272	419	328	475	384	532	440	644	553	756	665
	5	293	179			159	44.7	215	101	271	157	327	213	384	270	440	326	496	382	608	494	721	607
	6	351	214					179	42.4	235	98.6	292	155	348	211	404	267	460	323	573	436	685	548
	7	410	250							200	40.1	256	96.3	312	153	368	209	425	265	537	377	649	490
	8	468	286									220	37.8	276	94	333	150	389	206	501	319	614	431
	9	527	321											241	35.5	297	91.7	353	148	466	260	578	373
	10	585	357													261	33.2	317	89.4	430	202	542	314
	11	644	393															282	30.9	394	143	507	256
	12	702	428																	358	84.8	471	197
190	4	242	160	372	290	478	396	585	503	691	609	798	716	904	822	1010	928	1117	1035	1330	1248	1542	1460
	5	309	200	332	223	438	329	545	436	651	542	758	649	864	755	970	861	1077	968	1290	1181	1502	1393
	6	371	240	292	161	398	267	505	374	611	480	718	587	824	693	930	799	1037	906	1250	1119	1462	1331
	7	433	280	252	99	358	205	465	312	571	418	678	525	784	631	890	737	997	844	1210	1057	1422	1269
	8	495	320			318	143	425	250	531	356	638	463	744	569	850	675	957	782	1170	995	1382	1207
	9	557	360					385	188	491	294	598	401	704	507	810	613	917	720	1130	933	1342	1145
	10	618	400							451	233	558	340	664	446	770	552	877	659	1090	872	1302	1084
	11	680	440									518	278	624	384	730	490	837	597	1050	810	1262	1022
	12	742	480											584	322	690	428	797	535	1010	748	1222	960
210	4	304	220	445	361	578	494	711	627	844	760	977	893	1110	1026	1243	1159	1376	1292	1642	1558	1908	1824
	5	380	275	390	285	523	418	656	551	789	684	922	817	1055	950	1188	1083	1321	1216	1587	1482	1853	1748
	6	456	330	335	209	468	342	601	475	734	608	867	741	1000	874	1133	1007	1266	1140	1532	1406	1798	1672
	7	532	385	280	133	413	266	546	399	679	532	812	665	945	798	1078	931	1211	1064	1477	1330	1743	1596
	8	608	440			358	190	491	323	624	456	757	589	890	722	1023	855	1156	988	1422	1254	1688	1520
	9	684	495					436	247	569	380	702	513	835	646	968	779	1101	912	1367	1178	1633	1444
	10	760	550							514	304	647	437	780	570	913	703	1046	836	1312	1102	1578	1368
	11	836	605									592	361	725	494	858	627	991	760	1257	1026	1523	1292
	12	912	660											670	418	803	551	936	684	1202	950	1468	1216
240	4	443	328	634	519	826	711	1019	904	1211	1096	1404	1289	1596	1481	1788	1673	1981	1866	2366	2251	2750	2635
	5	554	410	552	408	744	600	937	793	1129	985	1322	1178	1514	1370	1706	1562	1899	1755	2284	2140	2668	2524
	6	665	492	470	297	662	489	855	682	1047	874	1240	1067	1432	1259	1624	1451	1817	1644	2202	2029	2586	2413
	7	776	575	387	186	579	378	772	571	964	763	1157	956	1349	1148	1541	1340	1734	1533	2119	1918	2503	2302
	8	887	656			498	267	691	460	883	652	1076	845	1268	1037	1460	1229	1653	1422	2038	1807	2422	2191
	9	998	739					608	349	800	541	993	734	1185	926	1377	1118	1570	1311	1955	1696	2339	2080
	10	1108	821							718	431	911	624	1103	816	1295	1008	1488	1201	1873	1586	2257	1970
	11	1219	903									829	513	1021	705	1213	897	1406	1090	1791	1475	2175	1859
	12	1330	985											939	594	1131	786	1324	979	1709	1364	2093	1748
270	4	631	448	1014	831	1306	1123	1599	1416	1891	1708	2184	2001	2476	2293	2768	2585	3061	2878	3646	3463	4230	4047
	5	787	560	902	675	1194	967	1487	1260	1779	1552	2072	1845	2364	2137	2656	2429	2946	2722	3534	3307	4118	3891
	6	943	672	790	519	1082	811	1375	1104	1667	1396	1960	1689	2252	1981	2544	2273	2837	2566	3422	3151	4006	3735
	7	1101	783	679	361	971	653	1264	946	1556	1238	1849	1531	2141	1823	2433	2115	2726	2408	3311	2993	3895	3577
	8	1258	895			859	496	1152	789	1444	1081	1737	1374	2029	1666	2321	1958	2614	2251	3199	2836	3783	3420
	9	1416	1007					1040	631	1332	923	1625	1216	1917	1508	2209	1800	2502	2093	3087	2678	3671	3262
	10	1572	1119							1220	767	1513	1060	1805	1352	2097	1644	2390	1937	2975	2522	3559	3106
	11	1730	1231									1401	902	1693	1194	1985	1486	2278	1779	2863	2364	3447	2948
	12	1887	1342											1582	1037	1874	1329	2167	1622	2752	2207	3336	2791

Springs mounting form for spring return actuators:



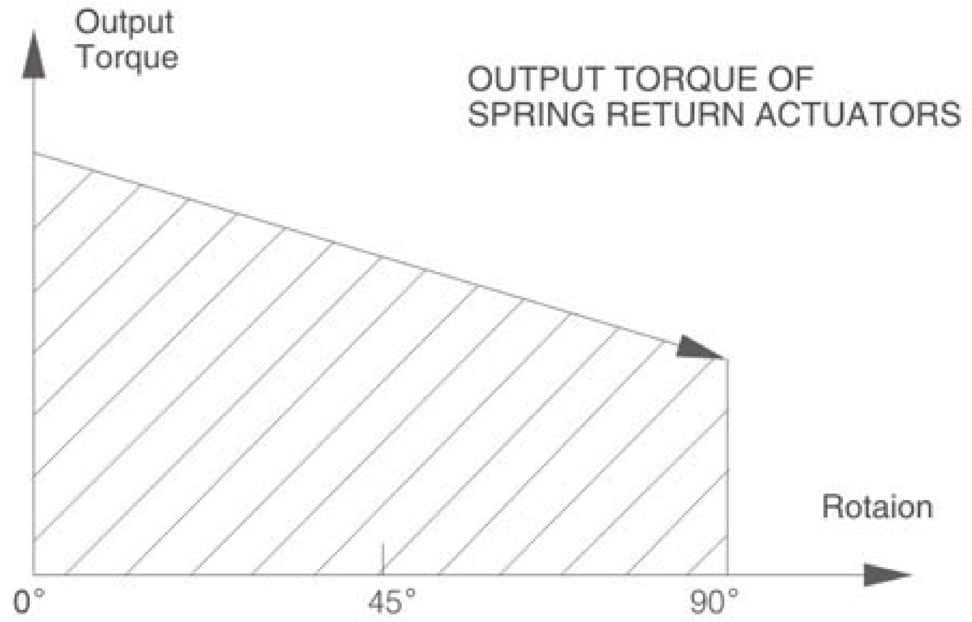
5 pcs 6 pcs 7 pcs 8 pcs

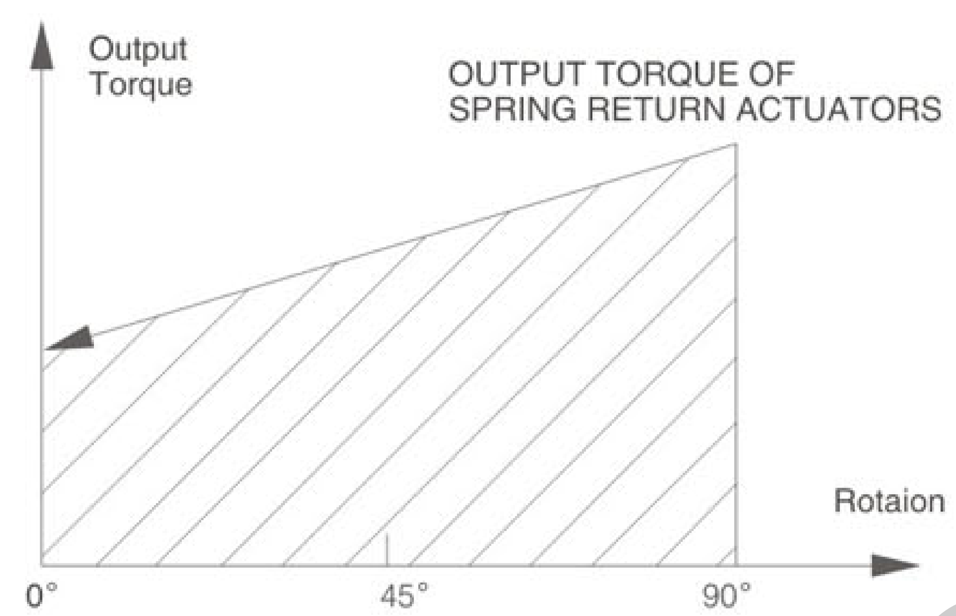
9 pcs 10 pcs 11 pcs 12 pcs

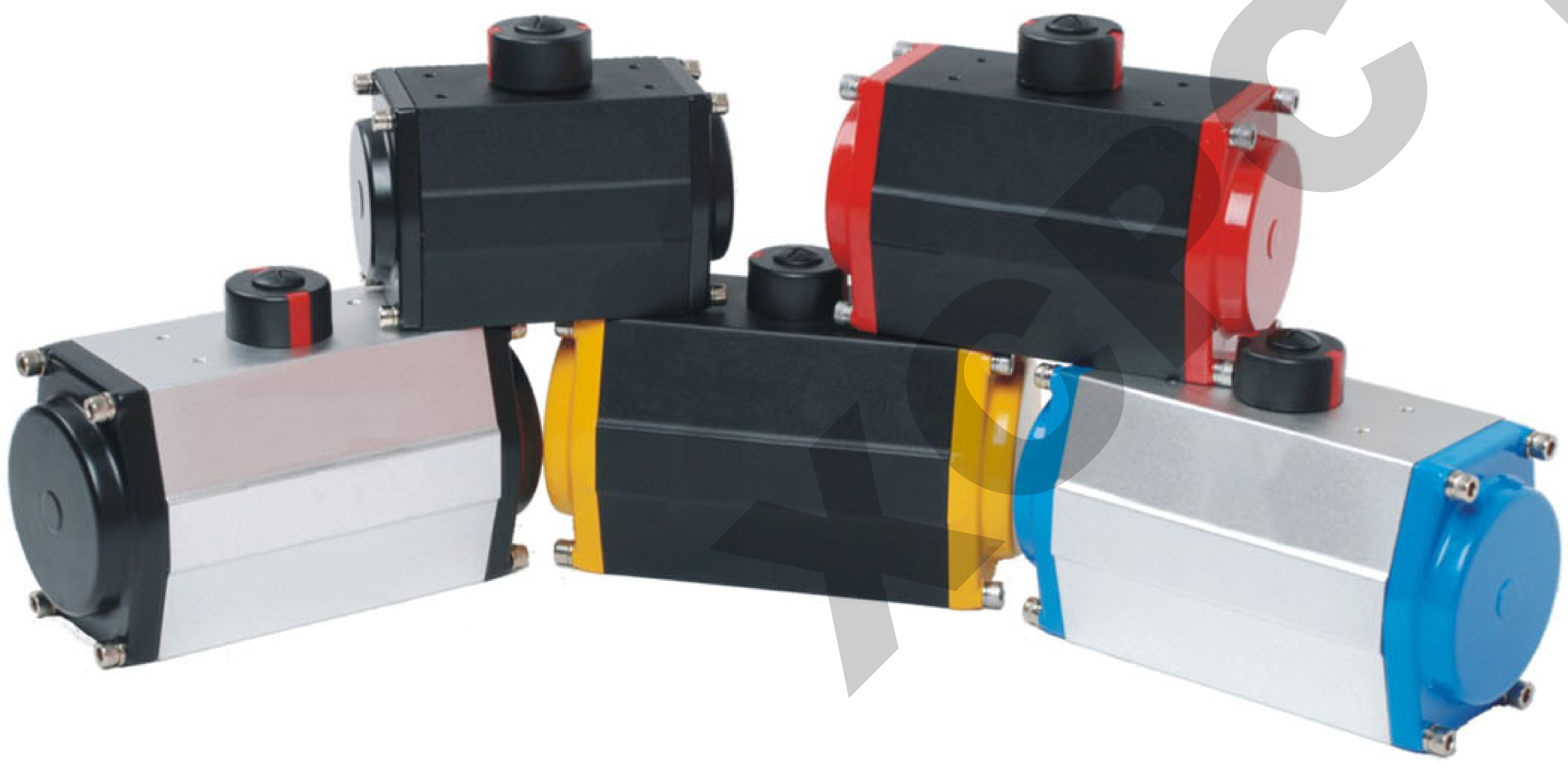
XAT Series Pneumatic Actuator

Reference Selection

TYPE:
Single acting pneumatic actuator
The suggested safe factor for single acting actuators under normal working conditions is 20%~30%.
Example:
The torque needed by valve=100 Nm
The torque considered safe factor=100 (1+30%)=130 Nm
Air supply pressure=5Bar
According to the above table, we can choose the minimum model is XAT-40SR with full 6pcs spring.







B

Air source treatment units

XCPC produce different standards of air source treatment unit(short as FRL), which include air filter, regulator, lubricator. They are offered as separation or combination, auto drain is available for some models. XCPC is one of the leading factory in this area for 10 years, with high reputation in domestic and international market.

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