

MODEL:JLAT SERIES PNEUMATIC ACTUATOR



Feature

JLAT new rack and pinion pneumatic actuator is manufactured by Shanghai Juliang Valve Group, integrating the latest technology domestic and abroad, and is designed through innovative optimization of CAD three-dimensional models. Its appearance is beautiful, compact and modern;And uses practical new materials and new processes to make the quality and performance of the product more reliable; Multi specification selection is more economical & affordable; The products fully comply with the latest national standards & technical specifications to meet current and future requirements.

Model Naming Method

JL → Juliang brand

-AT → Pneumatic actuator

D → Specification Action mode → Actuator spec.52-300
Action mode
D=Double acting,
E=Single acting(Spring reset)

-090 → Rotate angle → 90°/120°/180°Rotation angle
0°-90°/0°-180°Full stroke mechanical adjustment
3P-0° -45° -90°/3P-0° -90° -180°position

-F10 → Connection Size → Comply with international standards
ISO5211(F03-F25)

-P22 → Output shaft orifice size → LD= Parallel bevel output hole
H = Parallel diagonal output hole
W = 2 key slot output holes

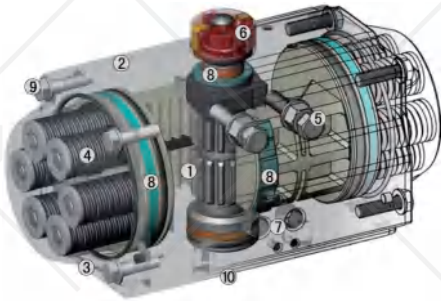
-10 → Spring q'ty → Springs at both ends is 5-12pcs

-HT → Operating temperature → ST=Standard temperature Nitrile Rubber O ring
-20°C~+80°C
HT=High temperature Fluore Rubber O ring-15°C~+150°C
LT=Low temperature Silicone Rubber O ring-40°C~+80°C

-A → Anticorrosion class → Anticorrosion class A、B

Overview

- 1.The Pinion and rack dual piston symmetrical structure design features fast and stable movement, high precision, and high output power. Reverse rotation can be achieved by simply changing the piston assembly position.
- 2.Extruded high-quality aluminum alloy cylinder body, with precision machined inner holes and outer surfaces subjected to hard anodizing treatment (anodizing + Teflon coating in special cases) for a longer service life and lower friction coefficient.
- 3.Integrated design, all double acting and single acting actuator models have the same cylinder body and end cover, which is convenient to change the action mode by adding spring or removing spring.
- 4.The combined preload safety spring group can easily and safely install or increase or decrease the number of springs during the assembly process or the use site.
- 5.Two separate adjusting screws on the external side are more accurate and convenient for the actuator that has been installed on the valve, adjusting the valve opening and closing positions.
If full stroke adjustment is required, configure the longer adjusting screws on both end covers.
- 6.Multi-function position indicator, on-site visual indication, compliant with VDI/VDE3845, NAMUR standard slot, can install and output all accessories, such as limit switch box, electric-pneumatic positioner, position sensor (PEPPERL+FUCHS, Turck).
- 7.The air source interface meets NUMAR standards, and NAMUR standard solenoid valves can be directly installed.
- 8.The composite guide bearing and piston guide ring on the back of the rack as well as the bearing of the output shaft are used to prevent metal to metal friction and increase lubrication, so as to make it low friction and long life.
- 9.All fasteners are made of stainless steel, which is long time corrosion resistant.
- 10.The connection part complies with the new international standards and specifications ISO5211, DIN3337 (F03-F25), which makes the installation of products with interchangeability and universality.

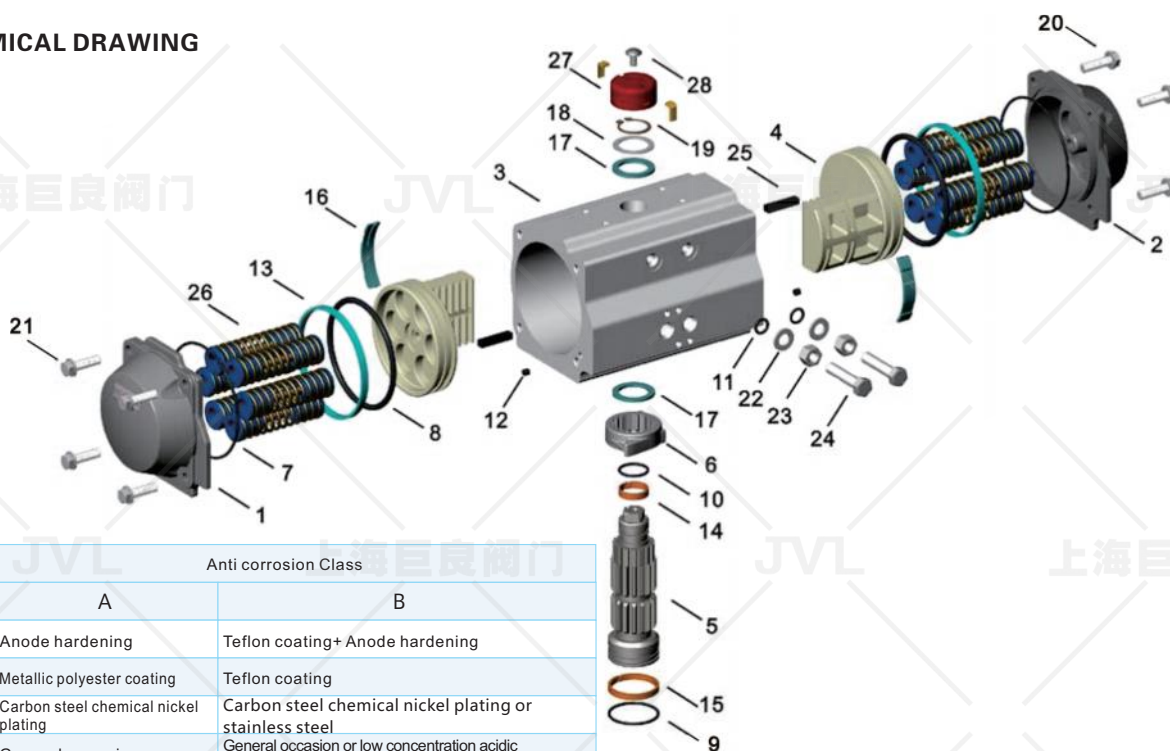


ACTUATOR SERIES COLOR OPTION

DIFFERENT COLORS OF ACTUATORS CAN BE PROVIDED IF NECESSARY



▼ ANATOMICAL DRAWING

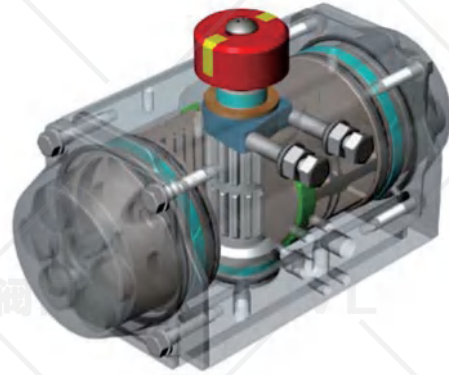
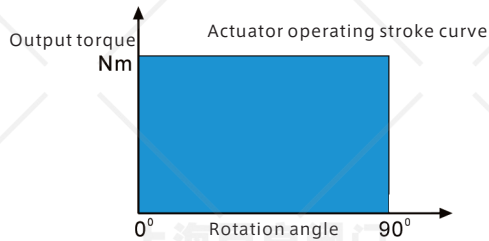
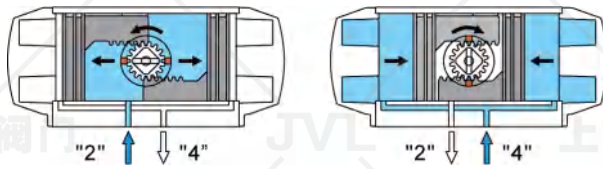


Parts	Anti corrosion Class	
	A	B
Cylinder	Anode hardening	Teflon coating+ Anode hardening
End cover	Metallic polyester coating	Teflon coating
Output shaft	Carbon steel chemical nickel plating	Carbon steel chemical nickel plating or stainless steel
Application	General occasion	General occasion or low concentration acidic environment

Part no.	Q'ty	Part name	Standard material	Selection of material
01	1 (1)	Left end cover	Die cast aluminum alloy	Stainless steel
02	1 (1)	Right end cover	Die cast aluminum alloy	Stainless steel
03	1	Cylinder body	Extruded aluminium alloy	Stainless steel
04	2	Piston	Die cast aluminum alloy	-
05	1	Output shaft	Carbon steel	Stainless steel
06	1	Adjusting cam	Stainless steel	-
07	2	O type ring (End cover)	NBR	Fluorine rubber or silicone rubber
08	2	O type ring (Piston)	NBR	Fluorine rubber or silicone rubber
09	1	O type ring (Bottom of output shaft)	NBR	Fluorine rubber or silicone rubber
10	1	O type ring (Top of output shaft)	NBR	Fluorine rubber or silicone rubber
11	2	O type ring (Adjusting bolt)	NBR	Fluorine rubber or silicone rubber
12	2	Plug (Cylinder body)	NBR	Fluorine rubber or silicone rubber
13	2	Bearing (Piston)	Fluorocarbon composite materials	-
14	1	Bearing (Top of output shaft)	Nylon 46	-
15	1	Bearing (Bottom of output shaft)	Nylon 46	-
16	1	Guide bearing (Piston back)	Nylon 46	-
17	2	Thrust bearing (Output shaft)	Nylon 46	-
18	2	Washer (Output shaft)	Nylon 46	-
19	1	Elastic collar	Stainless steel	-
20	8/12/16 (2)	End cover bolt	Stainless steel	-
21	8/12/16 (2)	End cover washer	Stainless steel	-
22	2	Washer	Stainless steel	-
23	2	Nut	Stainless steel	-
24	2	Adjusting bolt	Stainless steel	-
25	2	Guide block	Nylon66+30%FG	-
26	5-12	Spring assembly	Alloy spring steel	-
27	1	Position indicator	PP+30%GF	-
28	1	Bolt	Stainless steel	-

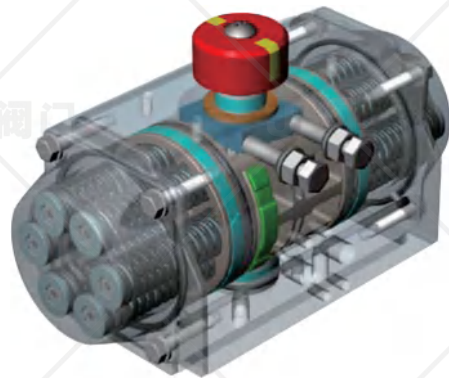
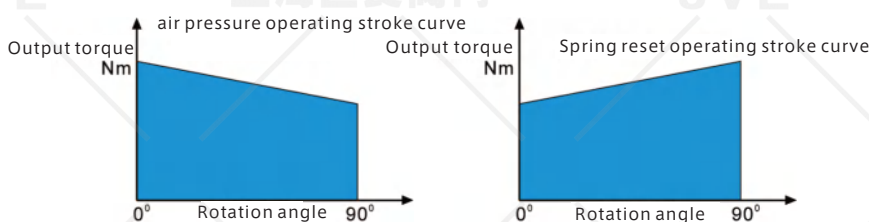
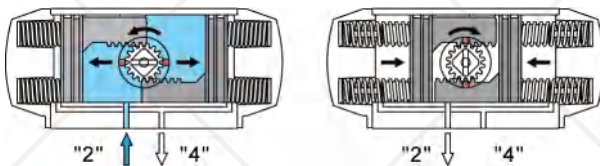
DOUBLE ACTING OPERATING PRINCIPLE (JLATD)

When the air source pressure enters the middle chamber between the two pistons of the cylinder from the air port (2), the separation of the two pistons moves towards both ends of the cylinder. The air in the air chambers at both ends is discharged through the air port (4), and at the same time, the two piston racks synchronously drive the output shaft (gear) to rotate counterclockwise. On the contrary, when the air source pressure enters the air chambers at both ends of the cylinder from the air port (4), the two pistons will move towards the middle of the cylinder, and the air in the middle air chamber will be discharged through the air port (2). At the same time, the two piston racks will synchronously drive the output shaft (gear) to rotate clockwise. If the piston is installed in the opposite direction, the output shaft will rotate in the opposite direction, which is a double acting reverse rotation type.



SINGLE ACTING OPERATING PRINCIPLE (JLATE)

When the air source pressure enters the middle chamber between the two pistons of the cylinder from the air port (2), the separation of the two pistons moves towards both ends of the cylinder, forcing the springs at both ends to compress, and the air in the air chambers at both ends is discharged through the air port (4), at the same time, the rack of the two pistons synchronously drives the output shaft (gear) to rotate counterclockwise. When the air source pressure is shifted backward through the solenoid valve, the two pistons of the cylinder move towards the middle direction under the spring force, and the air in the middle air chamber is discharged from the air port (2). At the same time, the rack of the two pistons synchronously drives the output shaft (gear) to rotate clockwise. (If the piston is installed relative to the opposite direction, the output shaft will turn into reverse rotation when the spring returns, which is a single acting reverse rotation type)



Actuator selection

When selecting pneumatic actuators, the safety value is increased on the torque of the confirmed valve, water vapor or non-lubricating medium increase 25% safety value; Non-lubricating slurry liquid medium increase 30% safety value ; Non-lubricated dry gas medium increase 40% safety value ; Non-lubricating gas conveying particle powder medium increase 60% safety value ; For clean and low-friction lubricating medium, increase the 20% safety value.

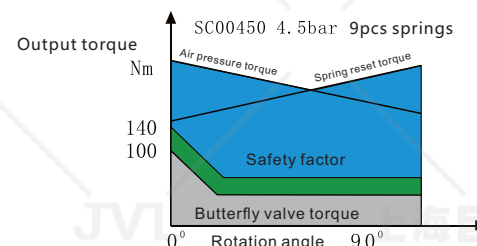
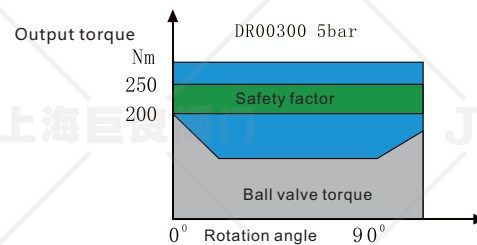
(The above safety values are theoretical recommendations of our company, and only for reference)

Double acting actuator selection example

When controlling a ball valve requiring torque of 200Nm, the air source pressure is only 5bar, and the medium is non-lubricated water vapor. Considering the safety factors, increase 25% safety value is equal to 250Nm, and find the air source pressure of 5bar according to the double-acting output torque table, and then vertically search for torque data equal to or similar to this column, select 277Nm, and then search left along this line for its model, selecting JLAT125D type.

Single acting actuator selection example

When controlling a butterfly valve requiring torque of 100Nm, the air source pressure is 4.5bar, and the medium is non lubricated dry gas. Considering safety factors, increase the 40% safety value is equal to 140Nm. According to the single acting output torque table to find the spring reset end point to get similar torque 148Nm, and then along this line, the left to find the air source pressure 4.5bar end torque 158Nm. The relative force balance between the air supply pressure torque and the spring reset torque must be considered, and then along the line to the left to find its model and sping quantity, select LAT140E type, 9pcs springs.



▼ ACTUATOR RELATED DATA

Model	Max air source pressure	Rotation angle	Operating temp. (°C)	Stroke adjust per 1°(turns)	Cylinder dia. φ (mm)	Cylinder capacity(L)		Switch time(S)(A)		Weight(kg) (B)	
						Open direction	Close direction	Open direction	Close direction	Per set /Spring	
JLAT52	Dry or lubricated clean compressed air	90°±4 or full stroke0°~90°	ST(Standard) NBR O type ring -20~80°C	1/6	52	0.1	0.2	D0.2	D0.3	D1.1	-
JLAT63				1/6	63	0.2	0.3	E0.3	E0.3	E1.2	0.01
JLAT75				1/5	75	0.3	0.5	D0.3	D0.3	D1.6	-
JLAT83				1/5	83	0.5	0.8	E0.3	E0.4	E1.8	0.02
JLAT92				1/5	92	0.7	1.1	D0.4	D0.4	D2.8	-
JLAT105				1/5	105	1.2	1.8	E0.4	E0.5	E3.2	0.03
JLAT125			HT(High temp.) FKM O type ring -15~150°C	1/4	125	1.5	2.3	D0.5	D0.5	D4.0	-
JLAT140				1/4	140	2.4	3.8	E0.5	E0.6	E4.7	0.06
JLAT160				1/4	160	3.1	4.9	D0.6	D0.6	D5.9	-
JLAT190				1/4	190	4.3	6.9	E0.7	E0.9	E6.7	0.07
JLAT210			LT(Low temp.) Silicone rubber O type ring -40~80°C	1/4	210	5.9	9.5	D0.7	D0.8	D8.5	-
JLAT240				1/4	240	10.0	15.2	E0.9	E1.1	E10.0	0.13
JLAT270				1/4	270	14.5	21.4	D0.9	D1.1	D10.7	-
JLAT300				1/4	300	25.0	40.0	E1.2	E1.4	E12.5	0.16
								D1.2	D1.4	D15.5	-
								E1.5	E1.8	E18.3	0.25
								D1.5	D1.7	D19.5	-
								E1.8	E2.1	E23.3	0.36
								D2.0	D2.2	D26.7	-
								E2.4	E2.8	E32.8	0.50
								D2.7	D3.2	D35.6	-
								E3.5	E4.0	E43.6	0.62
								D3.5	D4.0	D58.2	-
								E4.1	E4.6	E71.0	1.12
								D4.0	D4.5	D78.8	-
								E4.5	E5.0	E96.5	1.56
								D6.0	D7.0	D130	-
								E7.5	E8.5	E163	2.95

(A) The operating time of the actuator is tested under the following conditions: (1) Normal temperature (2) 90 ° stroke (3) Solenoid valve 4mm diameter, flow Qn400L/min (4) Pipe inner diameter 8mm (5) Neutral clean air (6) Air supply pressure 5.5bar (7) Actuator no-load.

Note: In the field test, the action time will change if one or more parameters are different.

(B) The weight of the single acting actuator is calculated as 10pcs springs; The number of springs that need to be added or removed is calculated by the weight of each spring.

▼ JLATD Model double acting output torque (Nm)

Actuator Model	2.5bar	3.0bar	3.5bar	4.0bar	4.5bar	5.0bar	5.5bar	6.0bar	7.0bar	8.0bar
JLATD32	3.6	4.3	5	5.7	6.4	7.3	8	8.7	10	11.6
JLATD52	8.3	10.0	11.6	13.3	15.0	16.6	18.3	19.9	23.3	26.6
JLATD63	14.7	17.6	20.5	23.5	26.4	29.3	32.2	35.2	41.0	46.9
JLATD75	29.1	34.9	40.7	46.5	52.3	58.2	64.0	69.8	81.4	93.0
JLATD83	45.7	54.9	64.0	73.2	82.3	91.5	101	110	128	146
JLATD92	66.5	79.7	93.0	106	120	133	146	160	186	213
JLATD105	107	129	150	172	193	215	236	258	301	344
JLATD125	138	166	194	221	249	277	304	332	387	443
JLATD140	217	261	304	348	391	434	478	521	608	695
JLATD160	283	340	397	453	510	567	623	680	793	907
JLATD190	383	459	536	612	689	765	842	918	1071	1224
JLATD210	531	638	744	850	956	1063	1169	1275	1488	1700
JLATD240	935	1122	1309	1496	1683	1870	2057	2244	2618	2992
JLATD270	1347	1617	1886	2156	2425	2695	2964	3234	3772	4311
JLATD300	2350	2821	3291	3761	4231	4701	5171	5641	6581	7521

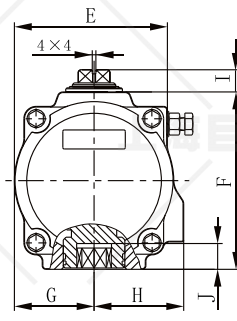
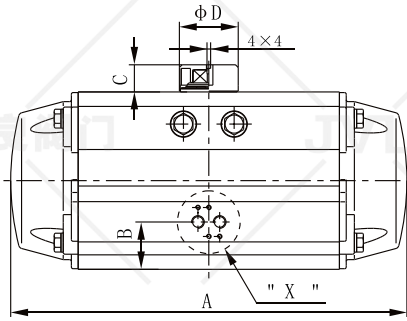
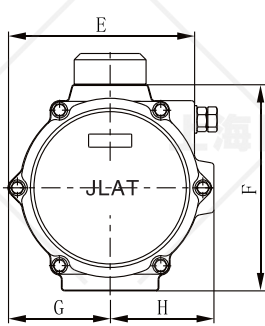
▼ JLATE Model single acting output torque (Nm)

Actuator Model	No. of springs	Air compression torque																				Spring reset torque		
		2.5bar		3.0bar		3.5bar		4.0bar		4.5bar		5.0bar		5.5bar		6.0bar		7.0bar		8.0bar				
		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	
JLATE52	05	4.9	3.4	6.6	5.1	8.2	6.8	9.9	8.4	11.6	10.1	13.2	11.7									4.9	3.4	
	06	4.2	2.5	5.9	4.1	7.6	5.8	9.2	7.4	10.9	9.1	12.5	10.8	14.2	12.4							5.8	4.1	
	07				5.2	3.2	6.9	4.8	8.5	6.5	10.2	8.1	11.9	9.8	13.5	11.5	15.2	13.1				6.8	4.7	
	08						6.2	3.8	7.9	5.5	9.5	7.2	11.2	8.8	12.8	10.5	14.5	12.1	17.8	15.5		7.8	5.4	
	09								7.2	4.5	8.9	6.2	10.5	7.8	12.2	9.5	13.8	11.2	17.2	14.5	20.5	17.8	8.8	6.1
	10										8.2	5.2	9.8	6.9	11.5	8.5	13.2	10.2	16.5	13.5	19.8	16.8	9.7	6.8
	11												9.2	5.9	10.8	7.6	12.5	9.2	15.8	12.5	19.1	15.9	10.7	7.4
	12														10.1	6.6	11.8	8.2	15.1	11.6	18.4	14.9	11.7	8.1
JLATE63	05	9.1	6.2	12	9.1	15	12	17.9	15	20.8	17.9	23.7	20.8									8.5	5.5	
	06	8	4.5	10.9	7.4	13.8	10.3	16.8	13.3	19.7	16.2	22.6	19.1	25.6	22.1							10.2	6.7	
	07			9.8	5.7	12.7	8.7	15.7	11.6	18.6	14.5	21.5	17.4	24.5	20.4	27.4	23.3					11.8	7.8	
	08					11.6	7	14.6	9.9	17.5	12.8	20.4	15.8	23.3	18.7	26.3	21.6	32.1	27.5			13.5	8.9	
	09							13.4	8.2	16.4	11.1	19.3	14.1	22.2	17	25.2	19.9	31	25.8	36.9	31.6	15.2	10	
	10									15.3	9.4	18.2	12.4	21.1	15.3	24.1	18.2	29.9	24.1	35.8	29.9	16.9	11.1	
	11											17.1	10.7	20	13.6	22.9	16.5	28.8	22.4	34.7	28.2	18.6	12.2	
	12													18.9	11.9	21.8	14.8	27.7	20.7	33.5	26.6	20.3	13.3	
JLATE75	05	18	11.7	23.8	17.6	29.6	23.4	35.4	29.2	41.2	35	47.1	40.8									17.3	11.1	
	06	15.8	8.3	21.6	14.1	27.4	19.9	33.2	25.7	39	31.5	44.8	37.3	50.7	43.2							20.8	13.3	
	07			19.4	10.6	25.2	16.4	31	22.3	36.8	28.1	42.6	33.9	48.4	39.7	54.3	45.5					24.2	15.5	
	08					23	13	28.8	18.8	34.6	24.6	40.4	30.4	46.2	36.2	52	42	63.7	53.7			27.7	17.7	
	09							26.6	15.3	32.4	21.1	38.2	27	44	32.8	49.8	38.6	61.5	50.2	73.1	61.8	31.1	19.9	
	10									30.2	17.7	36	23.5	41.8	29.3	47.6	35.1	59.2	46.7	70.9	58.4	34.6	22.1	
	11											33.8	20	39.6	25.8	45.4	31.7	57	43.3	68.7	54.9	38.1	24.3	
	12													37.4	22.4	43.2	28.2	54.8	39.8	66.4	51.4	41.5	26.5	
JLATE83	05	27.4	16.8	36.5	26	45.7	35.1	54.8	44.3	63.9	53.4	73.1	62.6									28.9	18.3	
	06	23.7	11.1	32.8	20.2	42	29.3	51.1	38.5	60.3	47.6	69.4	56.8	78.6	65.9							34.7	22	
	07			29.2	14.4	38.3	23.6	47.5	32.7	56.6	41.9	65.7	51	74.9	60.1	84	69.3					40.4	25.7	
	08					34.6	17.8	43.8	26.9	52.9	36.1	62.1	45.2	71.2	54.4	80.4	63.5	98.6	81.8			46.2	29.4	
	09							40.1	21.2	49.3	30.3	58.4	39.5	67.5	48.6	76.7	57.7	95	76	113	94.3	52	33	
	10									45.6	24.5	54.7	33.7	63.9	42.8	73	52	91.3	70.2	110	88.5	57.8	36.7	
	11											51.1	27.9	60.2	37	69.3	46.2	87.6	64.5	106	82.8	63.5	40.4	
	12													56.5	31.3	65.7	40.4	84	58.7	102	77	69.3	44	
JLATE92	05	41.1	27	54.4	40.3	67.7	53.6	81	66.8	94.2	80.1	108	93.4									39.4	25.3	
	06	36.1	19.1	49.3	32.4	62.6	45.7	75.9	58.9	89.2	72.2	103	85.5	116	98.8							47.3	30.4	
	07			44.3	24.5	57.6	37.8	70.8	51.1	84.1	64.3	97.4	77.6	111	90.9	124	104					55.2	35.4	
	08					52.5	29.9	65.8	43.2	79.1	56.5	92.3	69.7	106	83	119	96.3	146	123			63.1	40.5	
	09							60.7	35.5	74	48.6	87.3	61.9	101	75.1	114	88.4	140	115	167	142	71	45.5	
	10									68.9	40.7	82.2	54	95.5	67.3	109	80.5	135	107	162	134	78.8	50.6	
	11											77.2	46.1	90.5	59.4	104	72.7	130	99	157	126	86.7	55.6	
	12													85.4	51.5	98.7	64.8	125	92	152	118	94.6	60.7	
JLATE105	05	63.3	41.8	87.8	63.3	109	84.7	131	106	152	128	174	149									65.6	41	
	06	58.1	28.7	79.6	50.1	101	71.6	123	93.1	144	115	165	136	187	158							78.7	49.3	
	07			71.3	37	92.8	58.5	114	80	136	101	157	123	179	144	200	166					91.8	57.5	
	08					84.6	45.4	106	66.9	128	88.3	149	110	171	131	192	153	235	196			105	65.7	
	09							97.9	53.8	119	75.2	141	96.7	162	118	184	140	227	183	270	226	118	74	
	10									111	62.1	133	83.6	154	105	176	127	219	170	261	212	131	82	
	11											124	70.5	146	92	167	113	210	156	253	199	144	90.3	
	12													138	78.8	159	100	202	143	245	186	157	98.5	

Note: The values of air pressure torque with background color are recommended, which correspond to the values of spring reset torque and the number of springs.

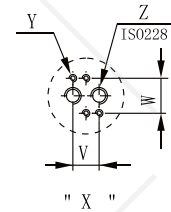
▼ JLAT Single acting output torque (Nm)

Actuator Model	No. of springs	Air compressing torque																				Spring reset torque	
		2.5bar		3.0bar		3.5bar		4.0bar		4.5bar		5.0bar		5.5bar		6.0bar		7.0bar		8.0bar			
		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
JLATE125	05	85.9	55.9	114	84	141	111	169	139	197	167	224	194									82.5	52.5
	06	75.4	39.4	103	67	131	95	158	122	186	150	214	178	241	205							98.9	62.9
	07			92.6	50.6	120	78	148	106	176	134	203	161	231	189	259	217					115	73.4
	08					110	62	137	89.4	165	117	193	145	221	173	248	200	304	256			132	83.9
	09							127	72.9	155	101	182	128	210	156	238	184	293	239	348	294	148	94.4
	10									144	84	172	112	200	140	227	167	283	223	338	278	165	105
	11											161	95.3	189	123	217	151	272	206	327	261	181	115
	12													179	107	206	134	262	190	317	245	198	126
JLATE140	05	135	88.2	178	132	222	175	265	219	309	262	352	305									129	82.3
	06	119	62.4	162	106	205	149	249	193	292	236	336	280	379	323							155	98.7
	07			146	80.1	189	124	232	167	276	210	319	254	363	297	406	341					181	115
	08					173	97.7	216	141	259	185	303	228	346	272	390	315	477	402			206	132
	09							200	115	243	159	286	202	330	246	373	289	460	376	547	463	232	148
	10									227	133	270	177	313	220	357	263	444	350	531	437	258	165
	11											254	151	297	194	340	238	427	324	514	411	284	181
	12														280	168	324	212	411	299	498	386	310
JLATE160	05	171	117	228	174	285	231	341	287	398	344	455	401									166	112
	06	149	84	206	141	262	197	319	254	376	311	432	367	489	424							199	135
	07			183	108	240	164	296	221	353	278	410	334	466	391	523	448					233	157
	08					217	131	274	188	331	244	387	301	444	358	501	414	614	528			266	179
	09							252	154	308	211	365	268	422	324	478	381	592	494	705	608	299	202
	10									286	178	343	235	399	291	456	348	569	461	683	575	332	224
	11											320	201	377	258	433	315	547	428	660	541	365	247
	12														354	225	411	281	524	395	638	508	399
JLATE190	05	225	146	301	222	378	299	454	375	531	452	607	528									237	158
	06	193	98.3	270	175	346	251	423	328	499	404	576	481	652	557							284	190
	07			238	127	315	204	391	280	468	357	544	433	621	510	697	586					332	221
	08					283	157	359	233	436	310	512	386	589	463	665	539	818	692			379	253
	09							328	186	404	262	481	339	557	415	634	492	787	645	940	798	426	284
	10									373	215	449	291	526	368	602	444	755	597	908	750	474	316
	11											418	244	494	320	571	397	724	550	877	703	521	347
	12														463	273	539	350	692	503	845	656	569
JLATE210	05	319	216	425	323	532	429	638	535	744	641	850	748									315	212
	06	277	153	383	260	489	366	595	472	702	578	808	685	914	791							378	255
	07			340	197	447	303	553	409	659	515	765	622	872	728	978	834					441	297
	08					404	240	510	346	617	452	723	559	829	665	935	771	1148	984			504	340
	09							468	283	574	389	680	496	787	602	893	708	1105	921	1318	1133	567	382
	10									532	326	638	433	744	539	850	645	1063	858	1275	1070	630	425
	11											595	370	702	476	808	582	1020	795	1233	1007	693	467
	12														659	413	766	519	978	732	1191	944	756
JLATE240	05	501	319	688	506	875	693	1062	880	1249	1067	1436	1254									616	434
	06	414	196	601	383	788	570	975	757	1162	944	1349	1131	1536	1318							740	521
	07			514	259	701	446	888	633	1075	820	1262	1007	1449	1194	1636	1381					863	608
	08					614	323	801	510	988	697	1175	884	1362	1071	1549	1258	1923	1632			986	695
	09							714	387	901	574	1088	761	1275	948	1463	1135	1837	1509	2211	1883	1109	782
	10									815	451	1002	638	1189	825	1376	1012	1750	1386	2124	1760	1233	869
	11											915	514	1102	701	1289	888	1663	1262	2037	1636	1356	955
	12														1015	578	1202	765	1576	1139	1950	1513	1479
JLATE270	05	780	565	1050	834	1319	1104	1589	1373	1858	1643	2128	1921									783	567
	06	667	408	936	678	1206	947	1475	1217	1745	1486	2014	1756	2284	2025							939	680
	07			823	521	1092	791	1362	1060	1631	1330	1901	1599	2170	1869	2440	2138					1096	794
	08					979	634	1249	904	1518	1173	1787	1443	2057	1712	2326	1981	2865	2520			1252	907
	09							1135	747	1405	1017	1674	1286	1943	1555	2213	1825	2752	2364	3291	2903	1409	1021
	10									1291	860	1561	1130	1830	1399	2100	1668	2638	2207	3177	2746	1565	1134
	11											1447	973	1717	1242	1986	1512	2525	2051	3064	2590	1722	1247
	12														1603	1086	1873	1355	2412	1894	2951	2433	1878
JLATE300	05	1333	1017	1803	1487	2273	1975	2743	2427	3214	2897	3684	3367									1334	1017
	06	1130	750	1600	1220	2070	1690	2540	2161	3010	2631	3480	3101	3950	3571							1600	1221
	07			1396	954	1866	1424	2337	1894	2807	2364	3277	2834	3747	3304	4217	3774					1867	1424
	08					1663	1157	2133	1627	2630	2097	3073	2567	3543	3037	4013	3508	4954	4448			2134	1628
	09							1930	1360	2400	1831	2870	2301	3340	2771	3810	3241	4750	4181	5690	5121	2400	1831
	10									2196	1564	2666	2034	3136	2504	3607	2974	4547	3914	5487	4854	2667	2035
	11											2463	1767	2933	2237	3403	2707	4343	3648	5283	4588	2934	2238
	12														2729	1971	3200	2441	4140	3381	5080	4321	3200

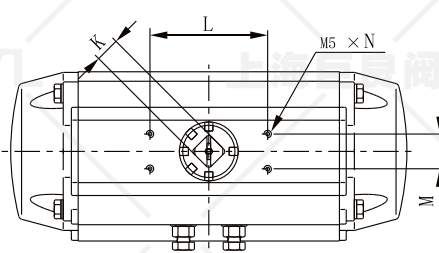
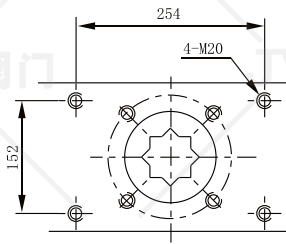


Connection standard ISO5211/VDE3845

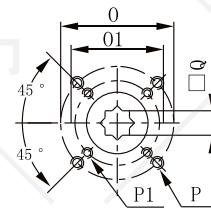
Connection standard NAMUR



JLAT300D/E Connection size



LD : Parallel bevel



Upward view



JLAT270D/E
JLAT300D/E

OUTLINE AND CONNECTION SIZE (mm)

Model	JLAT52	JLAT63	JLAT75	JLAT83	JLAT92	JLAT105	JLAT125	JLAT140	JLAT160	JLAT190	JLAT210	JLAT240	JLAT270	JLAT300
	D/E													
ISO flange	F04	F05	F05-07	F05-07	F07-10	F07-10	F07-10	F10-12	F10-12	F12	F14	F16	F16	F16
A	159	172	185	215	265	270	310	400	465	550	550	646	722	782
B	26.5	30	30.5	32.5	37.5	42.5	45	47.5	52	58.5	62.5	78.5	165	187
C	20	20	20	20	20	30	30	30	30	50	50	50	50	50
φD	40	40	40	40	40	56	56	65	65	80	80	115	115	115
E	59	72	84.5	97.5	111	127	136	156.5	169	190.5	213	251	298.5	383
F	69	85	102	115	127	145	157	177	196	220.5	245	298.5	330	405
G	29	36	42.5	49.5	56	64	69.5	80	88	99	110	131	163.5	201
H	41.5	47	52	56.8	67	77	82	91.5	99	105	112	131	166	204.5
I	14.5	14.5	14.5	14.5	14.5	24.5	24.5	24.5	24.5	44.5	44.5	44.5	44.5	44.5
J min	12	16	16	19	19	24	24	29	29	29	38	38	48	57
K	11	11	17	17	17	27	27	27	27	36	36	36	36	36
L	80	80	80	80	80	80	80	80	80	130	130	130	130	130
M	30	30	30	30	30	30	30	30	30	30	30	30	30	30
N	4	8	8	8	8	8	8	8	8	8	8	8	8	8
EO1	42	50	50	50	70	70	70	102	102	125	140	165	165	165
EO	-	-	70	70	102	102	102	125	125	-	-	-	-	-
P1	4-M6	4-M6	4-M6	4-M6	4-M8	4-M8	4-M8	4-M10	4-M10	4-M12	4-M16	4-M20	4-M20	4-M20
P	-	-	4-M8	4-M8	4-M10	4-M10	4-M10	4-M12	4-M12	-	-	-	-	-
□Q	11	14	14	17	17	22	22	27	27	27	36	36	46	55
V	24	24	24	24	24	24	24	24	24	24	24	40	40	40
W	32	32	32	32	32	32	32	32	32	32	32	45	45	45
Y	M5x8	M5x8	M5x8	M5x8	M5x8	M5x8	M5x8	M5x8	M5x8	M5x8	M5x8	M6x10	M6x10	M6x10
Z	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"	1/2"	1/2"