



JV-P

Pneumatic 1/4 Turn Actuator Single Acting (Spring Return) 2.4Nm - 9665Nm Double Acting 2.9Nm - 12502.2Nm



The JV-P range of rack and pinion pneumatic actuators are designed for quarter turn applications on ball, butterfly, plug valves and dampers. They can be supplied single (spring return) or double acting with a wide range of output torques offering a complete valve automation solution.

All actuators have travel stops for both the open and close positions. All components are of a high quality materials, precision engineered and lubricated to ensure long service life of 1,000,000 operations.

The bodies are manufactured from extruded aluminium alloy and are hard anodized to protect against internal and external corrosion.

Approvals, Features & Benefits

- ATEX, CE, SIL3 rated
- Base to ISO 5211 & DIN 3337 standards
- Air connections to Namur VDI/VDE 3845
- Lightweight aluminium alloy housing
- Wide range of torques & options to meet the demands of any site specification
- All springs are preloaded, to ensure safety when removing end covers
- Machined shaft and pistons
- Shaft has an anti blowout ring

Pressure & Temperature

Air pressure range:-

Single Acting : 2.5 to 8 bar Double Acting : 2.5 to 8 bar

Air temperature range:-

Standard: -15 to 80°C Low Option: -40 to 80°C High Option: -15 to 150°C

Single Acting (Spring Return) Operation



Counter Clockwise
Air input A
Air output B

Clockwise Air input B Air output A

Double Acting Operation



Counter Clockwise Air input A Air output B



Clockwise Air input B Air output A

STANDARD SPECIFICATIONS											
Movement	Standard adjustable 90° ± 5%	Springs	High tensile spring sets of alloy steel								
Lubrication	All moving parts are lubricated for life-long cycle	Piston Shaft	Nickel plated alloy steel reduces friction								
Cycle Life	1,000,000 Operations	Piston Guides	Self lubricating (Polypropylene +GF)								
Body	Hard anodized extruded Aluminium alloy	Piston Seals	Nitrile**								
Indicator	Open / Close Disc	Piston	Die casted aluminium dual piston								
Travel Stops	External adjustable ±5% in both open/closed position	End Caps	Polyester coated die cast aluminium								

^{**} Fluororubber for low & Silastic for high temperature duty

OPTIONAL ANCILLARY PRODUCTS



Valve Position Monitor - JV241007 Limit SwitchboxesThe JV241007 switchboxes are reliable, solidly built and of a compact design. IP68 enclosure as standard.



Solenoid Spool Valve

The JV231001 have 1/4" threaded ports connections and NUMAR interfaces. They can be adapted for 3/2 NC or 5/2 functions for controlling double and single acting actuators. JV231001-EXD (explosion proof) version is also available.



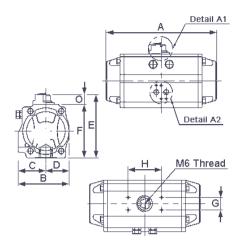
Brackets

For mounting valves to actuators. Also to prevent heat transfer from valve media.



Pinion Shaft Star Adapters Available from 9mm to 46mm square.

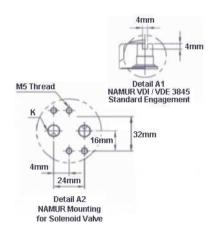




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Double Acting 2.9Nm - 12502.2Nm



	Α	В	С	Е	F	G	Н	0	K	S	haft	ISO 5211 Moun			nting	ng		Weight Kg			
									BSP	Star	Depth	F03	F05	F07	F10	F12	F14	F16	F25	Single	Doubl e
JV-P050	154	70.5	41.5	90	70	30	80	20	1/4	11	12	✓	✓							1.25	1.13
JV-P065	189	89.5	51.5	109	89	30	80	20	1/4	14	16		✓	✓						2.21	1.97
JV-P075	210	102.5	59	120	100	30	80	20	1/4	14	16		\checkmark	✓						3.29	2.93
JV-P085	229	112.5	63.5	133	113	30	80	20	1/4	17	19		\checkmark	\checkmark						4.26	3.78
JV-P095	264	126	71	143	123	30	80	20	1/4	17	19		\checkmark	✓						5.86	5.14
JV-P110	266	138.5	76.5	156	136	30	80	20	1/4	17	19			✓	✓					7.17	6.09
JV-P125	337	157	85	191	161	30	80	30	1/4	22	25			✓	✓					12.54	10.86
JV-P140	377	178	97	208	178	30	80	30	1/4	27	31				\checkmark	✓				15.93	13.77
JV-P160	412	196	106	230	200	30	130	30	1/4	27	31				\checkmark	\checkmark				23.75	20.15
JV-P190	488	216.5	112	262	232	30	130	30	1/4	36	41				✓		\checkmark			33.81	28.41
JV-P210	550	235.5	120	285	255	30	130	30	1/4	36	40						\checkmark			48.43	40.03
JV-P240	602	262	131	322	292	30	130	30	1/2	46	50							\checkmark		77.76	52.6
JV-P270	672	295	147.5	361	331	30	130	30	1/2	46	50							\checkmark		90.6	73.64
JV-P300	784	335	173	384	354	30	130	30	1/2	46	50							\checkmark		135.6	108
JV-P350	845	385	195	440	410	30	130	30	1/2	46	50							✓	✓	188.1	146.7
JV-P400	956	520	260	496	466	30	130	30	1/2	55	60								✓	283.5	220.5

Max torques based on 5.5 bar supply pressure*	JV-P050	JV-P065	JV-P075	JV-P085	JV-P095	JV-P110	JV-P125	JV-P140
Single Acting - Air (Nm)	11.4	19.2	36.6	51.7	75.4	99	177	244.6
Single Acting - Spring (Nm)	12.4	31.4	40.4	62.5	83.6	110	193.3	293.6
Double Acting (Nm)	19.8	40.1	62.3	91.4	128.5	167.6	299.4	442

Max torques based on 5.5 bar supply pressure*	JV-P160	JV-P190	JV-P210	JV-P240	JV-P270	JV-P300	JV-P350	JV-P400
Single Acting - Air (Nm)	249.1	528.4	757.7	1103.5	1594.4	2120.2	3221.9	4763
Single Acting - Spring (Nm)	389.4	628.8	861.8	1329.6	1886.4	2476.6	3541.1	5522
Double Acting (Nm)	613.1	964.6	1346.6	2089	2937	3778.9	5608.2	8545.8

^{*}Contact sales for other torque values when supply pressure differs.