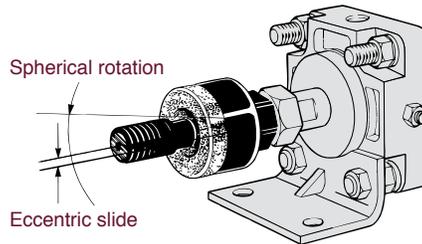




Floating Joints - NJ Series

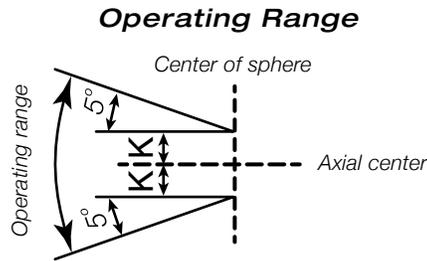
Reduce Effects of Side Load due to Misalignment

- Align deflected loads for longer cylinder life
- High level of machining accuracy is unnecessary
- Increased range for concentric misalignment
- Compact design suitable for high tensile stresses
- Spherical rotation operating range $\pm 5^\circ$



REDUCE

- Sideloading
- Misalignment
- Uneven Wear
- Piston Seal Leakage
- Inconsistent Travel Speed
- Internal Cylinder Damage



BENEFITS

- Decrease Maintenance Time
- Save Installation Time
- Aid Effective and Efficient Production
- Reduce Air Leaks
- Reduce Replacement Cylinder Costs



Compatible Cylinders



NCQ2



NCA1



NCM



NCG

NF283-B

Related Products

Metric Threads



JC Lightweight Male Threads

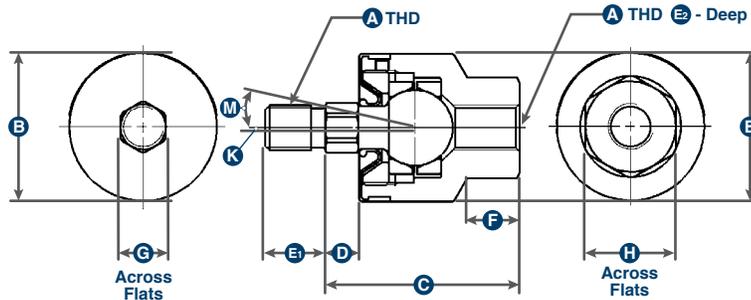
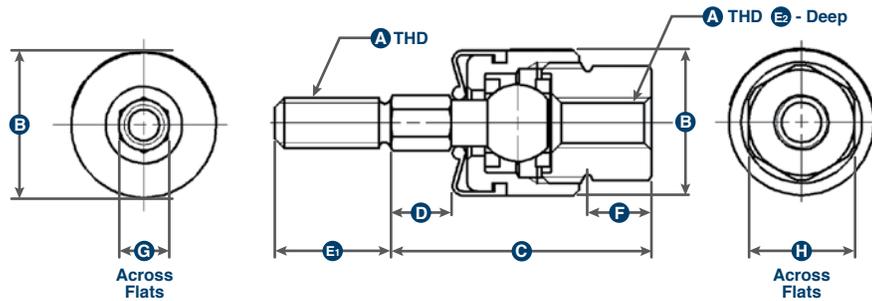


JA Standard Male Threads



JS Stainless Steel Male Threads

Dimensional Information



NJ5-40 6-40 8-32 10-32

NJ04 to NJ12

Model	A	Cylinder Max Pressure	Working Thrust (lbs)	B	C	D	E1	E2	F	G	H	K	M
NJ5-40	No.5-40 UNC	100 PSI (7 kgf/cm ²)	110	0.47	0.82	0.22	0.38	0.27	0.21	0.31	0.31	0.02	5°
NJ6-40	No.6-40 UNF		140	0.47	0.85	0.22	0.38	0.3	0.21	0.15	0.34	0.02	
NJ8-32	No.8-32 UNF		175	0.47	0.85	0.22	0.38	0.3	0.21	0.15	0.34	0.02	
NJ10-32	No.10-32 UNF	250	0.63	1.16	0.23	0.63	0.5	0.22	0.38	0.38	0.02		
NJ04	1/4-28 UNF	150 PSI (9.9kgf/cm ²)	760	0.94	1.38	0.25	0.5	0.41	0.31	0.56	0.03		
NJ05	5/16-24 UNF		1200	1.22	1.61	0.28	0.5	0.43	0.38	0.75	0.03		
NJ06	3/8-24 UNF		2500	1.22	1.83	0.31	0.75	0.63	0.44	0.75	0.03		
NJ07	7/16-20 UNF		2600	1.61	2.11	0.31	0.75	0.63	0.5	1	0.06		
NJ08	1/2-20 UNF		3500	1.61	2.18	0.39	0.74	0.75	0.63	0.62	1	0.06	
NJ10	5/8-18 UNF		6200	1.97	2.91	0.5	1.13	0.94	0.81	1.13	0.06		
NJ12	3/4-16 UNF		8500	1.97	2.91	0.5	1.13	0.94	0.81	1.13	0.06		

Care & Maintenance

- For applications other than air cylinder consult factory.
- Joint is not suitable for rotation applications.
- Do not reuse if disassembled.
- NJ floating joints are sealed and pre-lubricated.
- Ambient temperature range 40° to 140°F (5° to 60°C).
- Do not exceed an axial misalignment of 5°.
- Do not exceed an allowable eccentricity or the life of the joint could be shortened.
- For installation tighten completely and loosen 1 to 2 turns.

For CAD models: www.smcusa.com/CAD Actuator Accessories>Floating Joint



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