

HYGIENIC ELECTRIC ROD STYLE ACTUATOR RSH

The 316 series stainless-steel RSH Hygienic Electric Rod Style Actuator incorporates hygienic design principles and has an IP69K rating (static). Available in 22, 25 & 30 sizes, the RSH is built-to-order in stroke lengths up to 48 in (1.219 m) with force up to 7,943 lbf (35.3 kN).

POLISHED 316 STAINLESS STEEL CONSTRUCTION

- 316 series stainless steel for corrosion resistance
- Simplifies and lowers cost of machine design by eliminating the need for protective guards around standard actuators

DUAL SEAL SYSTEM

Use the dual seal system that provides the longest life in your application

Seal Option	Seal Materials	Usage
PSL	Polyurethane/ Polyurethane Rod Seals (Standard)	Longest Lasting for Most Applications. High Tolerance of Abrasives Like Salt and Sugar
USL	Polyurethane/ UHMWPE Rod Seals (Severe Chemical)	Use When High Concentrations of Caustic Chemicals are Present Including Ammonium Chloride and Hydrogen Peroxide.

REPLACEABLE SEALS

Quick seal cartridge replacement without special tools

GREASE PORT

- Screw re-lubrication system provides extended screw life
- Convenient lubrication without disassembly

WELDED SEAMS

Leaving no gaps which eases cleanup and helps to prevent bacterial growth

IP69K RATED

- To withstand high-pressure wash-down
- Clean-in-place compatible

HYGIENIC BREATHER/PURGE PORT

Helps prevent contaminants from entering into actuator

HYGIENIC STAINLESS STEEL FASTENERS

- Hex fasteners for sturdy construction without potential particle collection areas
- Included for your motor: EHEDG compliant 316 stainless seal sealed bolts

Features: ERD

2. THREADED ROD END

- Compatible with many commercially available metric rod end accessories
- Standard metric threads

3. GREASE PORT

- Screw re-lubrication system provides extended screw life
- Convenient lubrication without disassembly

6. WELDED SEAMS

- Leaving no gaps which eases cleanup and helps to prevent bacterial growth

7. SMOOTH EXTERIOR

- Polished, contoured mating surface designed to provide IP69K seal for today's hygienic servo motors

8. IP69K OPTION

- To withstand high-pressure wash-down
- Clean-in-place compatible

9. BREATHER/PURGE PORT

- Helps prevent contaminants from entering into actuator

Improvements: RSH

1. FRONT FACE SEALING O-RING

Hygienic design from head to toe

2. THREADED ROD END

- Compatible with many commercially available metric rod end accessories
- Standard metric threads

3. GREASE PORT

- Screw re-lubrication system provides extended screw life
- Convenient lubrication without disassembly

4. CARTRIDGE W/ REPLACEABLE SEALS

Quick seal cartridge replacement without special tools

5. DUAL SEAL SYSTEM

Use the dual seal system that provides the longest life in your application

6. WELDED SEAMS

- Leaving no gaps which eases cleanup and helps to prevent bacterial growth

7. POLISHED 316 STAINLESS STEEL WITH SMOOTH EXTERIOR

- 316 series stainless steel for corrosion resistance
- Simplifies and lowers cost of machine design by eliminating the need for protective guards around standard actuators

8. IP69K RATED (STANDARD)

- To withstand high-pressure wash-down
- Clean-in-place compatible

9. HYGIENIC BREATHER/PURGE PORT

- Helps prevent contaminants from entering into actuator

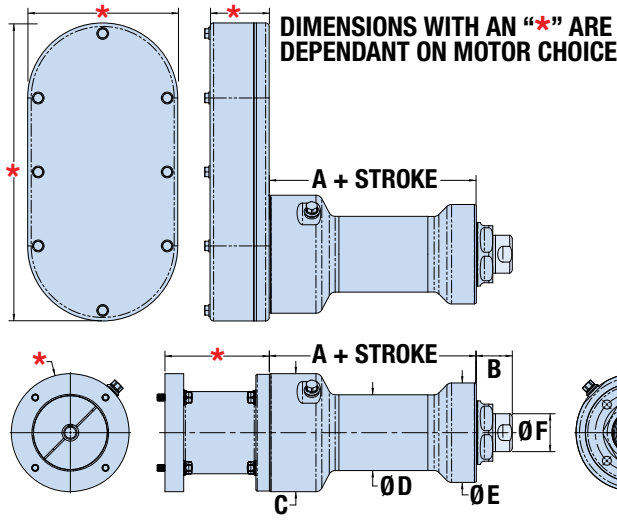
10. HYGIENIC STAINLESS STEEL FASTENERS

- Standard metric threads
- Hex fasteners for sturdy construction without potential particle collection areas
- Included for your motor: EHEDG compliant 316 stainless seal sealed bolts

HYGIENIC ELECTRIC ROD STYLE ACTUATOR

RSH

Dimensions:



tolomatic.com/CAD
Download 3D CAD
Always use CAD solid model to determine critical dimensions

	A	B	ØC	ØD	ØE	ØF	G
RSH22	155.9	27.3	89.0	57.2	75.0	28.6	26.0
RSH25	211.2	35.3	125.0	89.0	89.0	35.0	30.0
RSH30	237.2	35.3	125.0	89.0	114.0	54.0	50.0

Dimensions in millimeters

	A	B	ØC	ØD	ØE	ØF	G
RSH22	6.14	1.08	3.50	2.25	2.95	1.13	1.02
RSH25	8.31	1.39	4.92	3.50	3.50	1.38	1.18
RSH30	9.34	1.39	4.92	3.50	4.49	2.13	1.97

Dimensions in inches

SPECIFICATIONS (metric measurement)

RSH SIZE	MAXIMUM STROKE	SCREW CODE	LEAD	LEAD ACCURACY	BACKLASH	MAXIMUM THRUST	DYNAMIC LOAD RATING	WEIGHT		
								LMI	RP	Per 25mm
								Base	Base	kg
22	1000.0	BNM05	5.00	0.100	0.070	7,562	13,700	5.3	8.6	0.20
	1000.0	BNM10	10.00	0.100	0.070	7,562	21,000	5.2	8.6	0.20
	1000.0	BNM20	20.00	0.100	0.070	4,448	10,000	5.3	8.6	0.20
	609.6	RN04	4.00	0.010	0.030	7,562	28,509	5.7	9.0	0.17
	609.6	RN05	5.00	0.010	0.030	7,562	28,509	5.7	9.0	0.17
	609.6	RN10	10.00	0.010	0.030	6,921	28,509	5.7	9.0	0.17
25	1000.0	BN04	6.35	0.100	0.380	12,659	14,456	15.8	18.2	0.38
	1000.0	BNM05	5.00	0.052	0.060	8,896	16,800	15.6	18.0	0.37
	1000.0	BNM10	10.00	0.052	0.060	7,784	23,000	15.7	18.2	0.37
	1000.0	BNM25	25.00	0.100	0.080	3,114	20,000	15.6	18.1	0.38
	914.4	RN04	4.00	0.010	0.030	18,499	57,456	16.7	19.1	0.36
	914.4	RN05	5.00	0.010	0.030	17,249	57,456	16.7	19.1	0.36
30	1219.2	BN04	6.35	0.100	0.380	20,016	18,904	18.7	21.1	0.59
	1219.2	BNM05	5.00	0.023	0.060	13,344	24,900	19.2	21.6	0.60
	1219.2	BNM10	10.00	0.052	0.080	13,122	43,400	19.8	22.3	0.60
	1219.2	BNM20	20.00	0.052	0.080	8,220	42,800	19.0	21.4	0.60
	914.4 ^s	RN05	5.00	0.010	0.030	34,997	57,456	19.7	22.2	0.53
	914.4 ^s	RN10	10.00	0.010	0.030	35,330	57,456	19.7	22.2	0.53

SPECIFICATIONS (US conventional measurement)

RSH SIZE	MAXIMUM STROKE	SCREW CODE	LEAD	LEAD ACCURACY	BACKLASH	MAXIMUM THRUST	DYNAMIC LOAD RATING	WEIGHT		
								LMI	RP	Per Inch
								Base	Base	lb
22	39.4	BNM05	0.197	0.0040	0.0028	1,700	3,080	11.6	18.9	0.45
	39.4	BNM10	0.394	0.0040	0.0028	1,700	4,721	11.5	18.9	0.45
	39.4	BNM20	0.787	0.0040	0.0028	1,000	2,248	11.6	18.9	0.45
	24.0	RN04	0.157	0.0004	0.0012	1,700	6,409	12.5	19.9	0.38
	24.0	RN05	0.197	0.0004	0.0012	1,700	6,409	12.5	19.9	0.38
	24.0	RN10	0.397	0.0004	0.0012	1,556	6,409	12.5	19.9	0.38
25	39.4	BN04	0.250	0.0040	0.0150	2,846	3,250	34.8	40.2	0.84
	39.4	BNM05	0.197	0.0020	0.0024	2,000	3,777	34.3	39.7	0.82
	39.4	BNM10	0.394	0.0020	0.0024	1,750	5,171	34.7	40.1	0.82
	39.4	BNM25	0.984	0.0040	0.0031	700	4,496	34.5	39.9	0.83
	36.0	RN04	0.157	0.0004	0.0012	4,159	12,917	36.8	42.2	0.79
	36.0	RN05	0.197	0.0004	0.0012	3,878	12,917	36.8	42.2	0.79
30	48.0	BN04	0.250	0.0040	0.0150	4,500	4,250	41.2	46.6	1.30
	48.0	BNM05	0.197	0.0010	0.0024	3,000	5,598	42.3	47.7	1.32
	48.0	BNM10	0.394	0.0020	0.0031	2,950	9,757	43.7	49.1	1.32
	48.0	BNM20	0.787	0.0020	0.0031	1,848	9,622	41.8	47.2	1.32
	36.0 ^s	RN05	0.197	0.0004	0.0012	7,868	12,917	43.5	48.9	1.16
	36.0 ^s	RN10	0.394	0.0004	0.0012	7,943	12,917	43.5	48.9	1.16

^s RSH30 extended stroke length 50" (1270mm) available for roller screws, contact Tolomatic for production time.



MADE IN U.S.A.

Tolomatic™

EXCELLENCE IN MOTION

COMPANY WITH
QUALITY SYSTEM
CERTIFIED BY DNV
= ISO 9001 =
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