



KEYSTONE FIGURE 89 PNEUMATIC QUARTERTURN ACTUATORS MODEL CODE OPTIONS AND DESCRIPTIONS - NORTH AMERICA AND EUROPE ONLY

Model / Series	Actuator Size	Pneumatic Actuator Variant	Actuator Action	Spring Rating	Air Connection	Temperature Service	Travel Stops	Flange Threading	Operator Mounting Flange	Stem Connection	Bolting Options	Optional Air Connection	Coating / Painting	Nameplate Tagging	Country of Origin	Material Certification Traceability	Positive Material Identification	Functional Testing
89U	002	0	1	04	N14	H	2	M	F05	S14	B04	PS3	C0A	NPZ	CRZ	MCZ	MEZ	TF1

MODEL / SERIES

Code	Description
89C	Chemical Specs
89D	ISO 5211 (Metric threaded)
89E	Keystone ISO (Metric threaded)
89U	Keystone Imperial + Metric threaded

ACTUATOR ACTION

Code	Description
1	DA
3	SR Fail Close (CW)
4	SR Fail Open (CWW)

ACTUATOR SIZE

Code	Description
002	Model 002
003	Model 003
004	Model 004
006	Model 006
009	Model 009
014	Model 014
020	Model 020
032	Model 032
033	Model 033
051	Model 051
052	Model 052
084	Model 084
085	Model 085
086	Model 086
139	Model 139
140	Model 140
141	Model 141
240	Model 240

SPRING RATING

Code	Description
04	4 Springs
05	5 Springs
06	6 Springs
07	7 Springs
08	8 Springs
09	9 Springs
10	10 Springs
11	11 Springs
12	12 Springs
XX	Not Applicable

AIR CONNECTION

Code	Description
N14	¼" NPT
N12	½" NPT
P14	¼" BSPP
P12	½" BSPP
ZZZ	Special

PNEUMATIC ACTUATOR VARIANT

Code	Description
0	Standard
R	Reduced Spring Length
L	Hybrid-SR Left (seen from the label side)
S	Hybrid-SR Right (seen from the label side)

TEMPERATURE SERVICE

Code	Description
H	High Temperature [-15°C to +150°C / +5°F to +302°F]
N	Standard [-20°C to +80°C / -4°F to +176°F]
L	Low Temperature [-40°C to +65°C / -40°F to +149°F]
E	Extreme Low Temperature [-52°C to +65°C / -62°F to +149°F]

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TRAVEL STOPS

Code	Description
2	Dual Shaft (std)
3	Single STROKE LIMITER™ (Single ≤ 5.5 bar)
4	Double STROKE LIMITER™ (Double > 5.5 bar)

FLANGE THREADING

Code	Description
M	Metric
U	Imperial

OPERATOR MOUNTING FLANGE

Code	Description
F05	PCD F05 - 50 mm (ISO5211)
F07	PCD F07 - 70 mm (ISO5211)
F10	PCD F10 - 102 mm (ISO5211)
F12	PCD F12 - 125 mm (ISO5211)
F14	PCD F14 - 140 mm (ISO5211)
F16	PCD F16 - 165 mm (ISO5211)
M05	F03 + F05 (ISO5211)
M07	F05 + F07 (ISO5211)
M10	F07 + F10 (ISO5211)
M11	F07 + F10 + F12 (ISO5211)
M12	F10 + F12 (ISO5211)
M14	F10 + F14 (ISO5211)
M16	F12 + F16 (ISO5211)
M25	F16 + F25 (ISO5211)
U1C	PCD 1.75" (Keystone 45 degrees)
U34	PCD 3.25" (Keystone 45 degrees)
U50	PCD 5.00" (Keystone 45 degrees)
U68	PCD 6.50" (Keystone 45 degrees)
C34	PCD 1.75+3.25" (Keystone 45 degrees)
C50	PCD 3.25+5.00" (Keystone 45 degrees)
C68	PCD 5.00+6.50" (Keystone 45 degrees)

STEM CONNECTION

Code	Description
S14	Star 14
S17	Star 17
S22	Star 22
S27	Star 27
S36	Star 36
S46	Star 46
Q14	Square 14 - 45 degrees (diagonal)
D16	DD16.0 x 11.0
D20	DD20.0 x 14.0
D25	DD25.0 x 18.0
M35	35.0K10.0 x 8.0
M45	45.0K14.0 x 9.0
M50	50.0K14.0 x 9.0
M70	70.0K20.0 x 12.0
MS0	30.0K8.0 x 8.0 (F89E020 special)
P06	DD ⁹ / ₁₆ " x 1/4" [9.53 x 6.35 mm]
P09	DD ⁹ / ₁₆ " x 3/8" [14.29 x 9.53 mm]
P0A	DD ⁵ / ₁₆ " x 7/16" [15.88 x 11.1 mm]
POC	DD ³ / ₄ " x 1/2" [19.05 x 12.7 mm]
P0E	DD ⁷ / ₁₆ " x 9/16" [22.2 x 15.88 mm]
U0D	Dia 1 ³ / ₁₆ "; K ³ / ₁₆ x 3/16 [20.6K4.78 mm]
U10	Dia 1"; K ¹ / ₄ x 3/16 [25.4K6.35 mm]
U12	Dia 1 1/8"; K ¹ / ₄ x 1/4 [28.6K6.35 mm]
U16	Dia 1 3/8"; K ⁵ / ₁₆ x 5/16 [34.9K7.94 mm]
U1A	Dia 1 5/8"; K ³ / ₈ x 3/8 [41.3K9.53 mm]
U1E	Dia 1 7/8"; K ¹ / ₂ x 3/8 [47.6K12.7 mm]
U24	Dia 2 1/4"; K ¹ / ₂ x 3/8 [57.2K12.7 mm]

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BOLTING OPTIONS

Code	Description
B04	SS A4 Screws / Bolts

POSITIVE MATERIAL IDENTIFICATION

Code	Description
MEZ	PMI (per Purchase Order)

COATING / PAINTING

Code	Description
PR1	Paint RAL3028 Red
PG1	Paint RAL6038 Green
PY1	Paint RAL1026 Yellow
C0A	C5M - PU Coating (RAL5010)
C0B	RAL 5013 Cobalt Blue (C5M + A4 option)
PZZ	Special Painting / Coating (per purchase order)

FUNCTIONAL TESTING

Code	Description
TF1	Functional test report (Open/close Manufacturer standard)
TF2	Functional test report (Automated, Per customer operating conditions, Manufacturer standard)
TFZ	Special functional testing

NAMEPLATE TAGGING

Code	Description
NPZ	Special Tag/Nameplate (per customer PO)

COUNTRY OF ORIGIN

Code	Description
CRZ	Country of Origin Restrictions (per Purchase Order)

NOTE

Consult your local Emerson representative for additional options.

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