

EDA: Double Acting Actuator

Double Acting • Rack & Pinion Pneumatic Actuator • Aluminum Housing

STANDARD SPECIFICATIONS

General	
Series	EDA
Figure	7902/7952
Maximum Torque Output	56,831 in-lb
Ambient Temperature	-22°F to +212°F
Design Parameters	
Mounting/Drive Connections	ISO 5211
Position Indicator	Yes
Coating	Anti-corrosive (EN 15714-3)
Air Supply/Top Flange	NAMUR VDI/VDE3845
Safety Integrity Rating	IEC 61508 SIL3
Environmental	Group II, Category 2 - Zones 1,2, 21 & 22 in accordance to Annex VII or Directive 94/9/CE (ATEX), ASTM D1654-D8
Materials of Construction	
Body	Hard Anodized Aluminum
Piston	Aluminum
Pinion	Nickle Plated Carbon Steel
End Caps	Epoxy Coated Aluminum



ORDERING INFORMATION

Actuator Only

Size	Item #	Description	ISO Mount	Material	Torque Output at 60 psi (in-lb)
10	EDA001003N	Double Acting	Bolt: F03; Drive: 9x9mm	Aluminum Alloy	40
20	EDA00200305N	Double Acting	Bolt: F03-F05; Drive: 9x9mm	Aluminum Alloy	115
40	EDA004004N	Double Acting	Bolt: F04; Drive: 14x14mm	Aluminum Alloy	240
40	EDA004005N	Double Acting	Bolt: F05; Drive: 14x14mm	Aluminum Alloy	240
80	EDA00800507N	Double Acting	Bolt: F05-F07; Drive: 17x17mm	Aluminum Alloy	454
130	EDA01300507N	Double Acting	Bolt: F05-F07; Drive: 17x17mm	Aluminum Alloy	697
200	EDA02000710N	Double Acting	Bolt: F07-F10; Drive: 17x17mm	Aluminum Alloy	1036
300	EDA03000710N	Double Acting	Bolt: F07-F10; Drive: 22x22mm	Aluminum Alloy	1717
500	EDA050010N	Double Acting	Bolt: F10; Drive: 22x22mm	Aluminum Alloy	2558
850	EDA08501012N	Double Acting	Bolt: F10-F12; Drive: 27x27mm	Aluminum Alloy	4240
1200	EDA12001014N	Double Acting	Bolt: F10-F14; Drive: 36x36mm	Aluminum Alloy	6125
1750	EDA175014N	Double Acting	Bolt: F14; Drive: 36x36mm	Aluminum Alloy	8337
2100	EDA210016N	Double Acting	Bolt: F16; Drive: 46x46mm	Aluminum Alloy	12816
2500	EDA250016N	Double Acting	Bolt: F16; Drive: 46x46mm	Aluminum Alloy	20419
4000	EDA40001625N	Double Acting	Bolt: F16-F25; Drive: 55x55mm	Aluminum Alloy	28411

The Econ® Rack & Pinion pneumatic actuators are designed for use in quarter-turn applications and are ideal for the on/off or continuous operation of plug, butterfly and ball valves, as well as dampers and other 90° turn devices. Product offerings include rack and pinion aluminum housed actuators with torque values up to 56,831 in-lb (6,421 Nm). Engineered for reliability and built to last, Econ® actuators have a guaranteed service life of 500,000 cycles. The precision design and quality of our actuators provide long and safe performance for valve control. Econ® engineers and recognized distributors are happy to help you with your automation demands.

Double acting Fig. 7902 - Metric | Fig. 7952 - Imperial

Up to date product features

The Econ[®] brand of products are designed according to today's standards and expectations that come from various agencies and customer groups. Throughout its extensive product offering, Econ[®] products have added features, which make them suitable for a wide spectrum of applications.

Proven quality

Quality is the driving force behind the Econ[®] brand of products. After assembly, each actuator is tested on a fully automatic test bench. An increasing number of customers rely upon Econ[®] products because there is a high value to cost ratio. This means that Econ[®] products are not only price competitive but also perform as well as or better than more expensive products.

General features

- Rack & Pinion design in 14 different sizes
- Linear torque output in double acting actuators
- Double acting output torque up to 56,831 in-lb (6,421 Nm)
- Working temperature -22° to 212°F (-30° to 100°C)
- Angle of rotation is 90°±5° by means of external travel stops (between 85° and 95°)
- Lightweight and compact design
- Anti-friction sliding bearings provide long life without maintenance
- Hard anodized aluminium body
- Epoxy coated end-caps
- Stainless steel external bolting
- Serialized body numbering for traceability
- End caps denote spring return or double acting set up
- Multifunction position indicator suitable for mechanical limit switches or proximity indicators
- Anti-blowout pinion design



Design Parameters

- Classified for use in potentially explosive atmospheres as Group II, Category 2, suitable for Zones 1, 2, 21 and 22 in accordance with Annex VIII of Directive 94/9/CE (ATEX), ASTM D1654-D8
- Anti-corrosive coatings according to EN 15714-3
- Air supply and top flange connection according to NAMUR VDI/VDE 3845
- Safety Integrity Rating IEC 61508 SIL 3
- Solenoid and accessories direct assembly according to NAMUR VDI/VDE 3845
- Mounting and drive connections to ISO 5211



Bidirectional travel stops

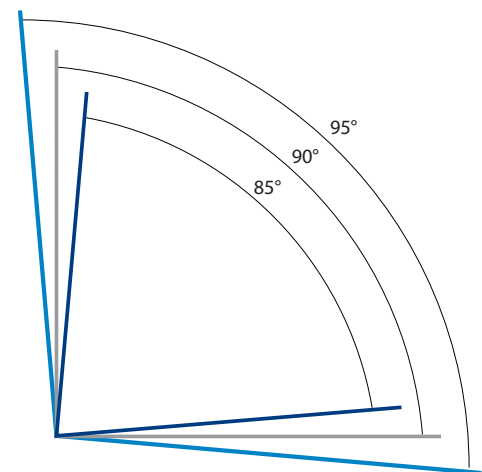
Econ[®] pneumatic actuators are provided with bidirectional pinion travel stops. Side located stops allow a full ±5° travel adjustment between 85° and 95°. These travel stops are designed to absorb the maximum rated torque of the actuator and maximum impact loads associated with recommended travel speeds. Adjustment of the counterclockwise and clockwise rotation limits is accomplished by unscrewing the locking nuts, turning the respective left and right studs to reduce or increase the travel angle and retightening the locking nuts.

Working temperature

- Standard construction: -22°F to +212°F (-30°C to +100°C)
- High temperature version - FKM O-Rings: +5°F to +302°F (-15°C to +150°C)

Maximum working pressure

120 psig (8 bar); Except double acting size 10 at 145 psig (10 bar).



Travel adjustment

Engineering data

Imperial units

Size DA/SR	Max pressure (psi)	Rotation	Screw stroke adjustment	Piston diameter (in)	Air volume (in ³)		Stroke time (s) *			
					Opening	Closing	Double acting		Spring return	
							Opening	Closing	Opening	Closing
10	145	90°±2°	-	1.3	2.10	1.70	0.03	0.07	-	-
20	120	90°±5°	For 1° need 1/3 turn	1.8	7.90	5.50	0.04	0.09	0.12	0.18
40	120	90°±5°	For 1° need 1/3 turn	2.4	16.50	14.00	0.08	0.08	0.20	0.29
80	120	90°±5°	For 1° need 1/4 turn	3.2	39.10	28.70	0.11	0.10	0.27	0.40
130	120	90°±5°	For 1° need 1/4 turn	3.6	47.00	46.40	0.15	0.15	0.32	0.50
200	120	90°±5°	For 1° need 1/4 turn	4.1	72.62	68.35	0.15	0.22	0.50	0.60
300	120	90°±5°	For 1° need 1/3 turn	4.7	119.60	105.60	0.30	0.40	0.70	0.85
500	120	90°±5°	For 1° need 1/4 turn	5.5	180.00	167.20	0.40	0.50	0.90	1.10
850	120	90°±5°	For 1° need 1/3 turn	6.3	286.80	235.60	0.80	0.90	2.20	2.60
1200	120	90°±5°	For 1° need 1/3 turn	7.1	424.10	283.20	1.20	1.50	2.30	2.80
1750	120	90°±5°	For 1° need 1/3 turn	8.3	598.00	567.50	1.80	2.00	2.80	3.20
2100	120	90°±5°	For 1° need 1/3 turn	9.3	707.90	622.40	2.30	2.60	3.30	3.70
2500	120	90°±5°	For 1° need 1/3 turn	11.8	951.97	878.74	2.80	3.10	3.80	4.20
4000	120	90°±5°	For 1° need 1/3 turn	13.4	2,026.00	1,678.20	3.00	3.50	4.30	5.00

Metric units

Size DA/SR	Max pressure (bar)	Rotation	Screw stroke adjustment	Piston diameter (mm)	Air volume (l)		Stroke time (s) *			
					Opening	Closing	Double acting		Spring return	
							Opening	Closing	Opening	Closing
10	10	90°±2°	-	32,0	0,035	0,028	0,03	0,07	-	-
20	8	90°±5°	For 1° need 1/3 turn	45,0	0,13	0,09	0,04	0,09	0,12	0,18
40	8	90°±5°	For 1° need 1/3 turn	60,2	0,27	0,23	0,08	0,08	0,20	0,29
80	8	90°±5°	For 1° need 1/4 turn	80,0	0,64	0,47	0,11	0,10	0,27	0,40
130	8	90°±5°	For 1° need 1/4 turn	90,5	0,77	0,76	0,15	0,15	0,32	0,50
200	8	90°±5°	For 1° need 1/4 turn	104,6	1,19	1,09	0,15	0,22	0,50	0,60
300	8	90°±5°	For 1° need 1/3 turn	120,5	1,96	1,73	0,30	0,40	0,70	0,85
500	8	90°±5°	For 1° need 1/4 turn	140,2	2,95	2,74	0,40	0,50	0,90	1,10
850	8	90°±5°	For 1° need 1/3 turn	160,0	4,70	3,86	0,80	0,90	2,20	2,60
1200	8	90°±5°	For 1° need 1/3 turn	180,0	6,95	4,64	1,20	1,50	2,30	2,80
1750	8	90°±5°	For 1° need 1/3 turn	210,0	9,80	9,30	1,80	2,00	2,80	3,20
2100	8	90°±5°	For 1° need 1/3 turn	237,0	11,60	10,20	3,00	2,60	3,30	3,70
2500	8	90°±5°	For 1° need 1/3 turn	300,0	15,60	14,40	2,80	3,10	3,80	4,20
4000	8	90°±5°	For 1° need 1/3 turn	340,0	33,20	27,50	3,00	3,50	4,30	5,00

* Stroke time conditions:

- 87 psi (6 bar) air pressure

- 68 °F (20 °C)

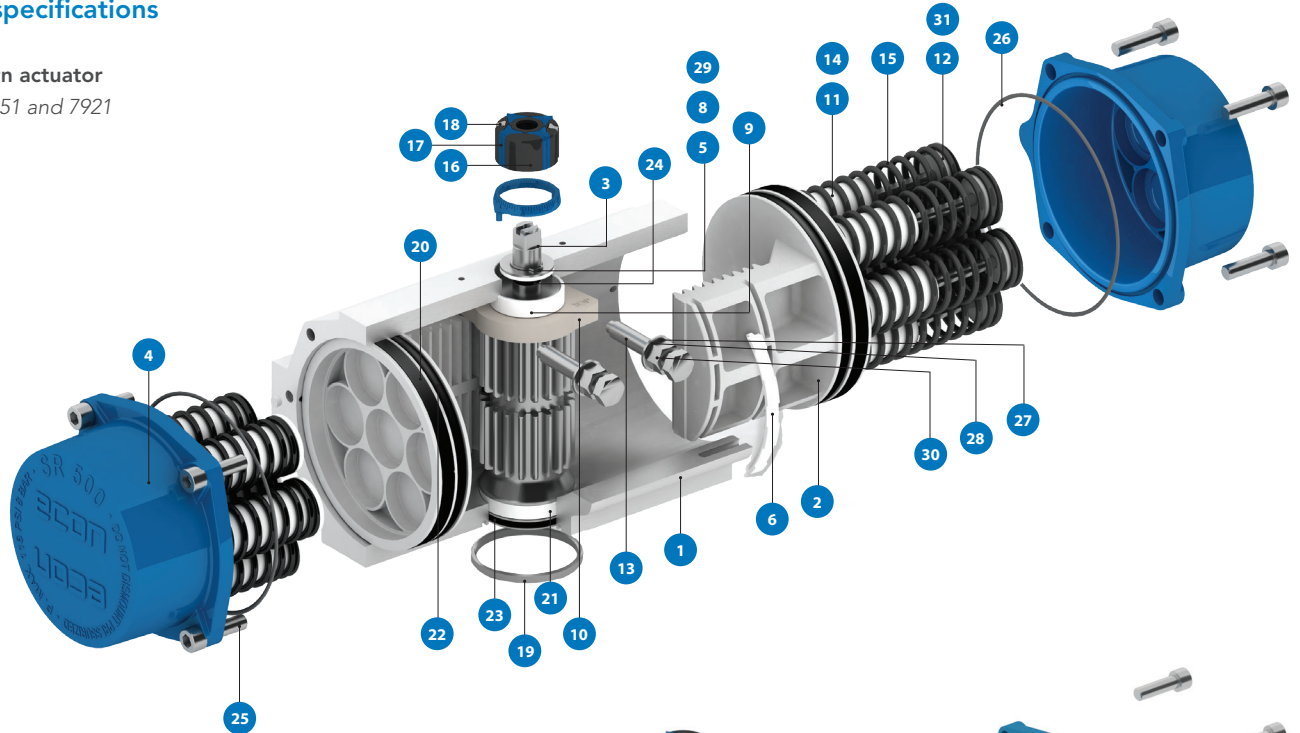
- Air supply directly connected to the actuator

(no solenoid valve or other accessories between the air supply and actuator)

Material specifications

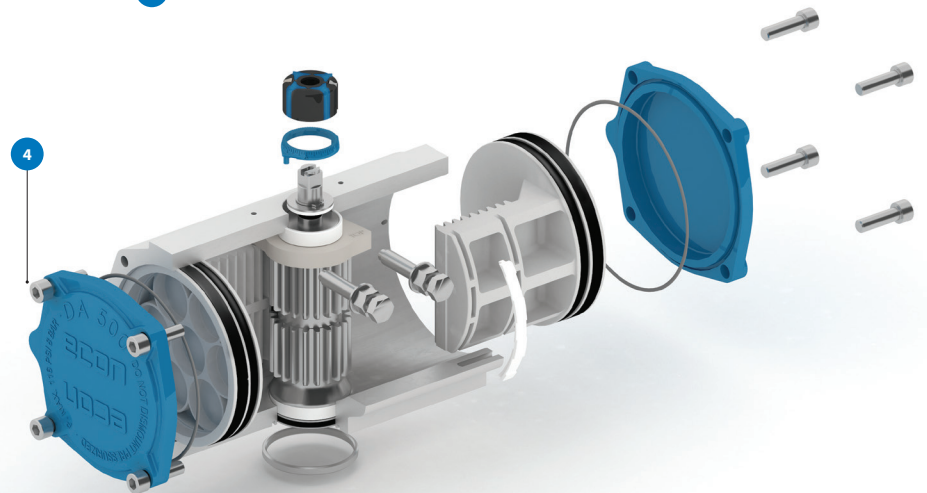
Spring return actuator

Fig. 7901, 7951 and 7921



Double acting actuator

Fig. 7902, 7952 and 7922



Position indicator

From size 20 to 850

From size 1200 to 4000



Item	Description	Material	Item	Description	Material
1	Body	Hard anodized aluminum	17	Cams	Polypropylene
2	Piston	Aluminum	18	Inserts	Stainless steel
3	Pinion	Nickel plated carbon steel	19	Centering ring	Nickel plated carbon steel
4	End caps	Epoxy coated aluminum	20	Piston slide guide ¹	Polyamide PA 6.6 + 30% G.F.
5	Soft pinion washer ¹	Polyamide PA 6.6	21	Lower pinion bearing ¹	Polyamide PA 6.6
6	Piston slide ¹	Polyamide PA 6.6 + 30% G.F.	22	O-Ring (Piston) ¹	NBR / Silicone ⁴
7	Lifting lugs ²	Nickel plated carbon steel	23	O-Ring (Lower pinion) ¹	NBR / Silicone ⁴
8	Pinion washer ¹	Stainless steel	24	O-Ring (Upper pinion) ¹	NBR / Silicone ⁴
9	Upper pinion bearing ¹	Polyamide PA 6.6 / Bronze ³ / PEEK ⁴	25	End cap bolt	Stainless steel
10	Stop device	ASTM A 105	26	O-Ring (End cap) ¹	NBR / Silicone ⁴
11	Spring's long support	Polyamide PA 6.6	27	O-Ring (Stroke limiting bolts) ¹	NBR / Silicone ⁴
12	Spring's short support	Polyamide PA 6.6	28	End stop washer	Stainless steel
13	End stop bolt	Stainless steel	29	Slip washer ¹	Stainless steel
14	Spring bolt	Stainless steel	30	End stop nut	Stainless steel
15	Spring	DIN 2076 - D-5.6	31	Spring nut	Stainless steel
16	Position indicator	Polypropylene			

¹ Recommended spare parts

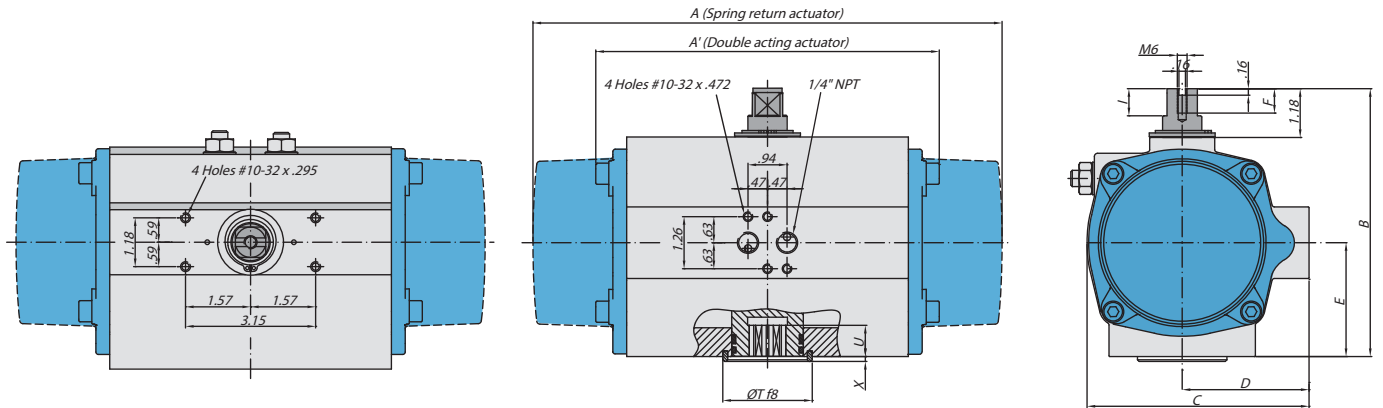
² Only for sizes DA/SR 2500 & 4000

³ For sizes 500 -1200

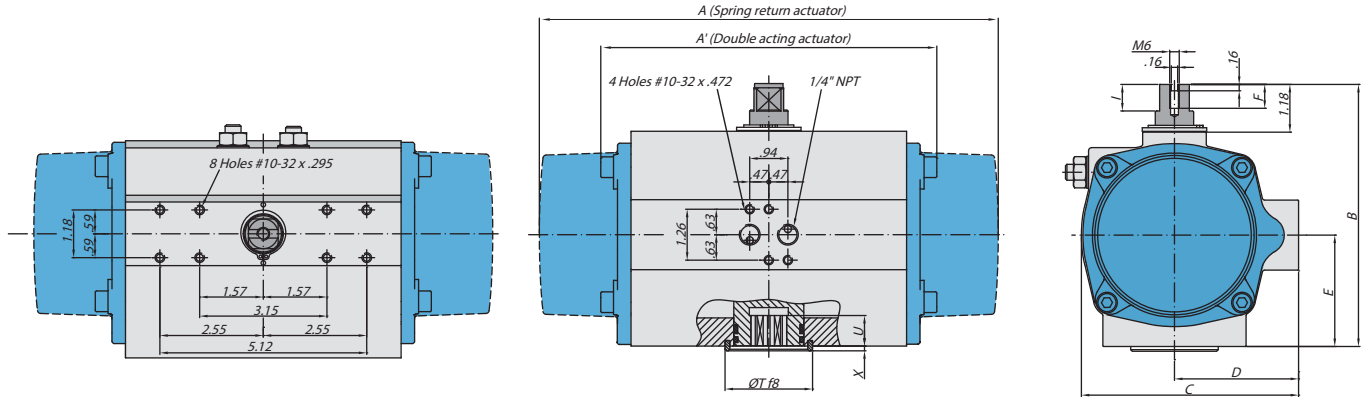
⁴ For low temperature versions Fig. 7921 and Fig. 7922

Dimensions Fig. 7951, 7952, 7921 and 7922 - Imperial versions

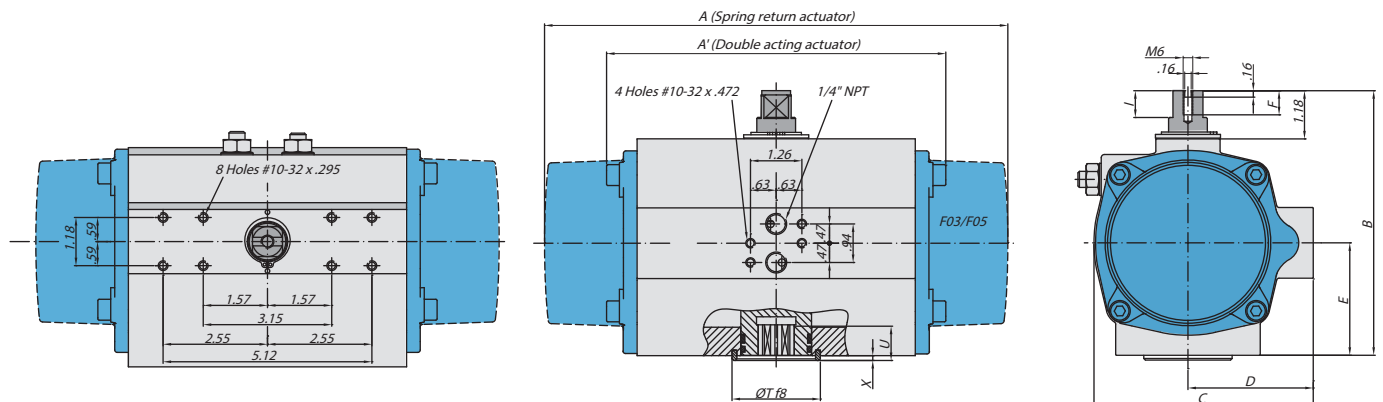
Sizes 10 | 20 | 40 | 80 | 130 | 200 | 300 | 500 | 850



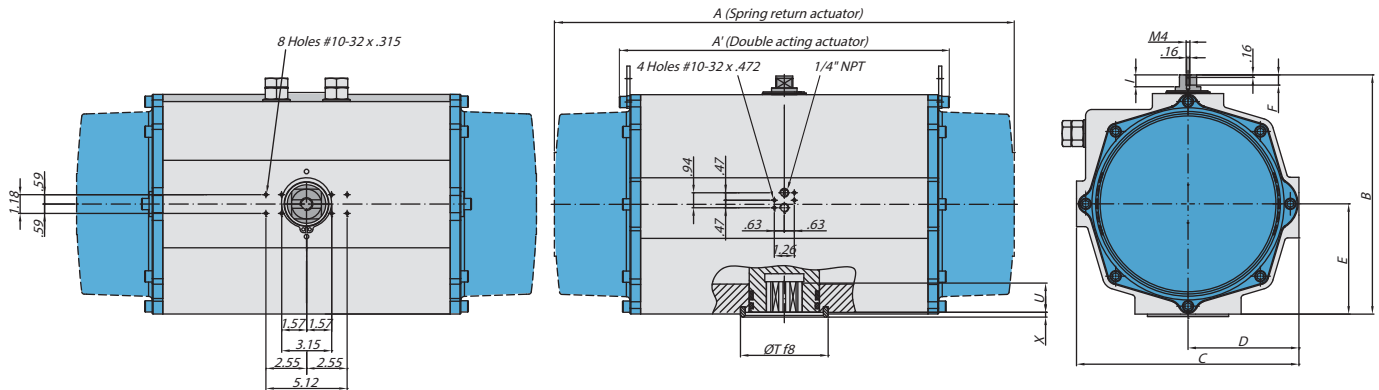
Sizes 1200 | 1750



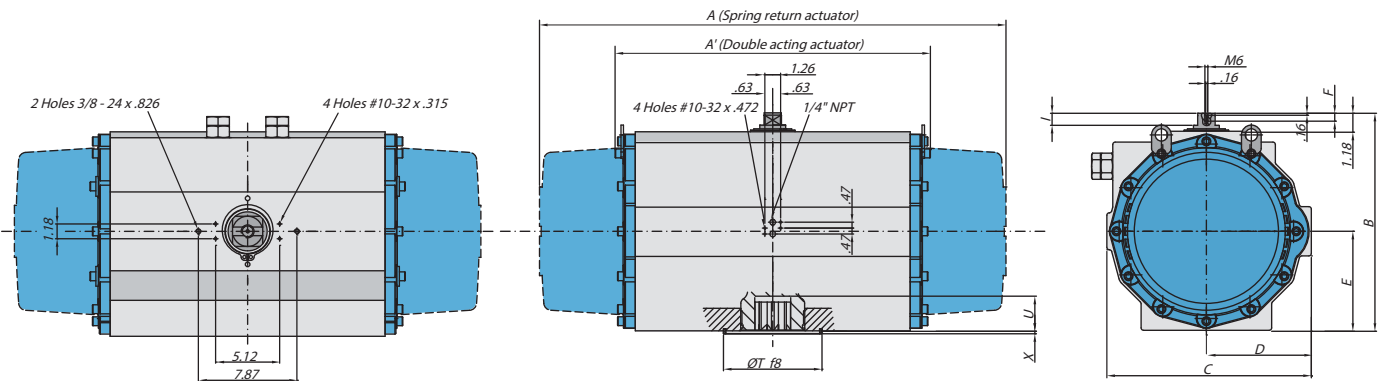
Sizes 2100



Sizes 2500



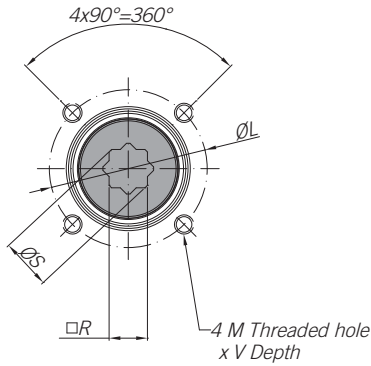
Sizes 4000



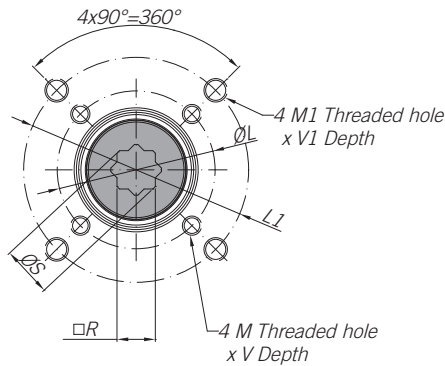
Size DA/SR	Spring return & double acting actuators - Dimensions in inches (in)											
	A (SR)	A' (DA)	B	C	D	E	F	I	ØT	X	U	ISO 5211
10	-	3.94	2.99	2.20	1.30	0.91	0.35	0.24	0	0.08	0.47	F03
20	6.42	5.70	3.78	2.99	1.89	1.34	0.35	0.49	0.98	0.08	0.39	F03/F05
20	6.42	5.70	3.78	2.99	1.89	1.34	0.35	0.49	1.18	0.12	0.47	F05
20	6.42	5.70	3.78	2.99	1.89	1.34	0.35	0.49	1.38	0.12	0.47	F04
40	7.68	6.22	4.53	3.58	2.21	1.77	0.35	0.49	1.18	0.12	0.47	F04
40	7.68	6.22	4.53	3.58	2.21	1.77	0.35	0.49	1.38	0.12	0.47	F05
80	8.54	6.97	5.39	4.37	2.60	2.17	0.47	0.49	2.17	0.12	0.75	F05/F07
130	10.16	7.72	5.79	4.80	2.80	2.36	0.47	0.49	2.17	0.12	0.87	F05/F07
200	11.77	8.86	6.50	5.33	3.07	2.76	0.47	0.49	2.17	0.12	0.91	F07/F10
300	13.72	10.75	7.17	6.00	3.39	3.15	0.47	0.49	2.76	0.12	0.94	F07/F10
500	15.63	11.97	7.83	6.81	3.78	3.35	0.47	0.49	2.76	0.12	1.26	F10
850	18.62	14.65	8.70	7.54	4.17	3.86	0.47	0.49	3.35	0.12	1.54	F10/F12
1200	22.05	17.28	9.80	8.37	4.57	4.49	0.63	0.73	3.94	0.16	1.89	F10/F14
1750	23.66	18.15	11.02	9.55	5.16	5.12	0.63	0.73	3.94	0.16	1.97	F14
2100	27.64	20.08	12.32	10.89	5.83	5.79	0.63	0.73	5.12	0.16	1.97	F16
2500	29.06	20.39	15.08	14.02	6.99	6.95	0.63	0.73	5.12	0.16	2.28	F16
4000	37.01	24.80	17.09	16.34	8.39	7.91	0.63	0.73	7.87	0.16	2.36	F16/F25

ISO 5211 details & dimensions

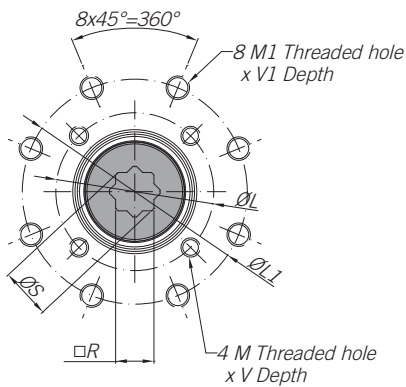
Sizes 10 | 20 | 40 | 500 | 1750 | 2100 | 2500



Sizes 20 | 80 | 130 | 200 | 300 | 850 | 1200



Sizes 4000



Imperial versions - Fig. 7951, 7952, 7921 and 7922

Size DA/SR	Actuators ISO 5211 details in inches							
	□R	ISO 1	ØL	M x V	ISO 2	ØL 1	M1 x V1	ØS
10	0.35	F03	1.42	10-32 UNF x 0.315	-	-	-	0.49
20	0.35	F03	1.42	10-32 UNF x 0.394	F05	1.97	1/4"-20 UNC x 0.394	0.49
20	0.55	F05	1.97	1/4"-20 UNC x 0.394	-	-	-	0.71
20	0.55	F04	1.65	10-32 UNF x 0.394	-	-	-	0.71
40	0.55	F04	1.65	10-32 UNF x 0.394	-	-	-	0.71
40	0.55	F05	1.97	1/4"-20 UNC x 0.394	-	-	-	0.71
80	0.67	F05	1.97	1/4"-20 UNC x 0.394	F07	2.76	5/16"-18 UNC x 0.669	0.89
130	0.67	F05	1.97	1/4"-20 UNC x 0.394	F07	2.76	5/16"-18 UNC x 0.669	0.89
200	0.67	F07	2.76	5/16"-18 UNC x 0.669	F10	4.02	3/8"-16 UNC x 0.669	0.89
300	0.87	F07	2.76	5/16"-18 UNC x 0.669	F10	4.02	3/8"-16 UNC x 0.669	1.12
500	0.87	F10	4.02	3/8"-16 UNC x 0.669	-	-	-	1.12
850	1.06	F10	4.02	3/8"-16 UNC x 0.669	F12	4.92	1/2"-13 UNC x 0.787	1.44
1200	1.42	F10	4.02	3/8"-16 UNC x 0.669	F14	5.51	5/8"-11 UNC x 1.024	1.91
1750	1.42	F14	5.51	5/8"-11 UNC x 1.024	-	-	-	1.91
2100	1.81	F16	6.5	3/4"-10 UNC x 1.181	-	-	-	2.37
2500	1.81	F16	6.5	3/4"-10 UNC x 1.181	-	-	-	2.37
4000	2.17	F16	6.5	3/4"-10 UNC x 1.181	F25	10	5/8"-11 UNC x 1.181	2.85

Metric versions - Fig.7901 and 7902

Size DA/SR	Actuators ISO 5211 details in millimeters							
	□R	ISO 1	ØL	M x V	ISO 2	ØL 1	M1 x V1	ØS
10	9	F03	36	M5x8	-	-	-	12,5
20	9	F03	36	M5x8	F05	50	M6x10	12,5
20	14	F05	50	M6x10	-	-	-	18,1
20	14	F04	42	M5x10	-	-	-	18,1
40	14	F04	42	M5x10	-	-	-	18,1
40	14	F05	50	M6x10	-	-	-	18,1
80	17	F05	50	M6x10	F07	70	M8x16	22,5
130	17	F05	50	M6x10	F07	70	M8x16	22,5
200	17	F07	70	M8x16	F10	102	M10x16	22,5
300	22	F07	70	M8x16	F10	102	M10x16	28,5
500	22	F10	102	M10x16	-	-	-	28,5
850	27	F10	102	M10x16	F12	125	M12x20	36,5
1200	36	F10	102	M10x16	F14	140	M16x26	48,5
1750	36	F14	140	M16x26	-	-	-	48,5
2100	46	F16	165	M20x30	-	-	-	60,2
2500	46	F16	165	M20x30	-	-	-	60,2
4000	55	F16	165	M20x30	F25	254	M16x30	72,5

Torque output for double acting actuators - imperial units

Size	Torque output for double acting in inch pounds (in-lb)						Weight (lb)
	40 psi	60 psi	80 psi	100 psi	120 psi	145 psi	
	0° to 90°	0° to 90°	0° to 90°	0° to 90°	0° to 90°	0° to 90°	
10	27	41	58	71	81	97	1.4
20	86	119	158	200	230	-	3.1
40	180	248	331	411	478	-	4.6
80	341	470	626	784	912	-	6.6
130	523	721	962	1,204	1,390	-	8.4
200	779	1,070	1,430	1,788	2,071	-	12.3
300	1,283	1,777	2,372	2,958	3,434	-	18.7
500	1,921	2,647	3,526	4,406	5,107	-	24.7
850	3,177	4,386	5,845	7,304	8,470	-	37.3
1200	4,594	6,340	8,456	10,566	12,249	-	56.9
1750	6,257	8,630	11,503	14,386	16,675	-	71.6
2100	9,612	13,264	17,686	22,107	25,632	-	109.5
2500	15,312	21,135	28,177	35,228	40,837	-	153.4
4000	21,313	29,407	39,210	49,014	56,831	-	285.3

Torque output for double acting actuators - metric units

Size	Torque output for double acting in Nm						Weight (kg)
	3 bar	4 bar	5 bar	6 bar	7 bar	8 bar	
	0° to 90°	0° to 90°	0° to 90°	0° to 90°	0° to 90°	0° to 90°	
10	3	4,5	6	7	8,2	9,1	0,64
20	9,7	13	16,2	19,5	23	26	1,4
40	20,3	27,1	33,9	41	47	54	2,1
80	38,5	51,3	64,1	77	90	103	3
130	59,1	78,7	98,4	118	138	157	3,8
200	88	117	146	175	205	234	5,6
300	145	194	242	291	339	388	8,5
500	217	289	361	433	505	577	11,2
850	359	479	598	718	837	957	16,9
1200	519	692	865	1.038	1.211	1.384	25,8
1750	707	942	1.178	1.413	1.649	1.884	32,5
2100	1.086	1.448	1.810	2.172	2.534	2.896	49,7
2500	1.730	2.307	2.884	3.461	4.038	4.614	69,6
4000	2.408	3.210	4.013	4.816	5.618	6.421	129,4

How to Order

Ball Valve Ordering Matrix

How to Order: Valve Only

Example: A 2", Two Piece ASME Class 150, Full Port Ball Valve with Flanged Ends, Carbon Steel Body, Stainless Steel Trim, TFM1600 Seats, Graphite Packing, NACE Compliant, Fire Safe, Locking Lever Operated is written: 10E10-AR-CSFG-NFC-0200

A	B	C	D	E	F	G	H	I	J	K
X	X	X	X	X	X	X	X	X	X	X

A	Construction Type
10E10	2-PC. ASME-150, Full Port, Flanged
30E10	2-PC. ASME-300, Full Port, Flanged
10E15	1-PC. ASME-150, Reduced Port, Flanged
30E15	1-PC. ASME-300, Reduced Port, Flanged**
2WE20	3-PC. 2000WOG, Full Port, NPT/SW (≤1")
5WE20	3-PC. 1500WOG, Full Port, NPT/SW (>1")
2WE30	2-PC. 2000WOG, Full Port, NPT (≤1")
5WE30	2-PC. 1500WOG, Full Port, NPT (>1")
1WE40	3-PC. 1000WOG, Full Port, NPT/SW
1WE52	2-PC. 1000WOG, Full Port, NPT*
1WE55	1-PC, 1000WOG, Double Red. Port, NPT*
10E60	3-Way ASME-150, Full Port, L/T Port, Flanged
1WE70	3-Way 1000WOG, Full Port, L/T Port, NPT

B	Port Configuration
A	As Defined (Standard Configuration)
T	T-Port
L	L-Port
3	30° V-Notch**
6	60° V-Notch**

C	End Connection
B	BW x BW**
X	BWE x BWE
R	RF Flange
O	FNPT x FNPT
W	SW x SW
U	FNPT x SW
J	RTJ Flange**

D	Body Material
C	Carbon Steel (A216-WCB)
A	Alloy 20**
S	Stainless Steel (A351-CF8M)

E	Trim
C	Carbon Steel
A	Alloy 20**
S	Stainless Steel

F	Seats
E	EK+PTFE**
F	TFM1600
G	TFM4215
H	TFM1600 + 15% Carbon**
P	PEEK***
R	RTFE**
T	PTFE
Z	METAL**
V	50%PTFE +50%SS**

G	Body Gasket
G	316 Spiral Wound + Grafoil
T	PTFE

H	NACE
N	NACE
O	NON-NACE

I	Fire Safe
F	Fire Safe
O	NON-Fire Safe

J	Operator
C	Locking Lever/T-Handle
G	Gear

K	Port Size	
	NPS	DN
0025	1/4"	8
0038	3/8"	10
0050	1/2"	15
0075	3/4"	20
0100	1"	25
0125	1-1/4"	32
0150	1-1/2"	40
0200	2"	50
0250	2-1/2"	65
0300	3"	80
0400	4"	100
0500	5"	125
0600	6"	150
0800	8"	200

Note:

* Manual operation only (A)

** Full factory lead time may be required for valves with these components

How to Order

Valve Assembly Ordering Matrix

How to Order: Valve Assembly

Example: A 2", Two Piece ASME Class 150, Full Port Ball Valve with Flanged Ends, Carbon Steel Body, Stainless Steel Trim, TFM1600 Seats, Graphite Packing, NACE Compliant, Fire Safe with **Spring Return Actuator, Fail Closed, 12 Springs, 24VDC NEMA 7 Solenoid, and NEMA 7 Mechanical Limit Switch** is written: 10E10-AR-CSFG-NFC-0200 + **S04C12-C-C-XXX**



L	Actuator: None
X	NO Actuator

OR

Actuator: Double Acting			
L	Size	L	Size
DA01	EDA 0010	DA50	EDA 0500
DA02	EDA 0020	DA85	EDA 0850
DA04	EDA 0040	DA12	EDA 1200
DA08	EDA 0080	DA17	EDA 1750
DA13	EDA 0130	DA21	EDA 2100
DA20	EDA 0200	DA25	EDA 2500
DA30	EDA 0300		

OR

Actuator: Spring Return			
L	Fail Closed	L	Fail Open
S02C <u>06</u>	ESR 0020 FC	S02A <u>06</u>	ESR 0020 FO
S04C <u>14</u>	ESR 0040 FC	S04A <u>14</u>	ESR 0040 FO
S08C <u>14</u>	ESR 0080 FC	S08A <u>14</u>	ESR 0080 FO
S13C <u>14</u>	ESR 0130 FC	S13A <u>14</u>	ESR 0130 FO
S20C <u>14</u>	ESR 0200 FC	S20A <u>14</u>	ESR 0200 FO
S30C <u>14</u>	ESR 0300 FC	S30A <u>14</u>	ESR 0300 FO
S50C <u>14</u>	ESR 0500 FC	S50A <u>14</u>	ESR 0500 FO
S85C <u>14</u>	ESR 0850 FC	S85A <u>14</u>	ESR 0850 FO
S12C <u>14</u>	ESR 1200 FC	S12A <u>14</u>	ESR 1200 FO
S17C <u>14</u>	ESR 1750 FC	S17A <u>14</u>	ESR 1750 FO
S21C <u>14</u>	ESR 2100 FC	S21A <u>14</u>	ESR 2100 FO
S25C <u>14</u>	ESR 2500 FC	S25A <u>14</u>	ESR 2500 FO
S40C <u>14</u>	ESR 4000 FC	S40A <u>14</u>	ESR 4000 FO

Change the spring quantity by replacing the last 2 characters (underlined) with a new code.

Change Spring Count			
04	4 Springs	10	10 Springs
06	6 Springs	12	12 Springs
08	8 Springs	14	14 Springs

OR

Actuator: Electric (On/Off)			
L	110 V	L	24V
E04A <u>S</u>	ELA 0040 110V	E04D <u>S</u>	ELA 0040 24V
E06A <u>S</u>	ELA 0060 110V	E08D <u>S</u>	ELA 0080 24V
E08A <u>S</u>	ELA 0080 110V		
E10A <u>S</u>	ELA 0100 110V		
E15A <u>S</u>	ELA 0150 110V		
E20A <u>S</u>	ELA 0200 110V		
E30A <u>S</u>	ELA 0300 110V		
E50A <u>S</u>	ELA 0500 110V		
E60A <u>S</u>	ELA 0600 110V		
E80A <u>S</u>	ELA 0800 110V		
E12A <u>S</u>	ELA 1200 110V		

If Electric Modulation is needed, change the last character (underlined) from S to M.

M	Solenoid Valve
X	NO Solenoid
A	Solenoid, NEMA 4 Watertight, 24VDC
L	Solenoid, NEMA 4 Watertight, 24VAC
B	Solenoid, NEMA 4 Watertight, 110VAC
C	Solenoid, NEMA 7 Explosion proof, 24VDC
M	Solenoid, NEMA 7 Explosion proof, 24VAC
D	Solenoid, NEMA 7 Explosion proof, 110VAC
T	Custom Solenoid Option

N	Limit Switch
X	NO Limit Switch
V	Limit Switch, NEMA 4 Mechanical
W	Limit Switch, NEMA 4 Proximity
Y	Limit Switch, NEMA 7 Explosion proof, Mechanical
Z	Limit Switch, NEMA 7 Explosion proof, Proximity
T	Custom Limit Switch Option

O	Positioner
X	NO Positioner
A	Smart Positioner, NEMA 4, Single Acting
B	Smart Positioner, NEMA 4, Double Acting
T	Custom Positioner Option
V	Pneumatic Positioner

P	Other
X	No other item
E	Stem extensions on valves

Q	Linkage Kit
X	NO Linkage Kit
L	Linkage Kit

Note:
Contact sales for additional valve assembly accessory options.

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Econosto, part of the ERIKS group, has been offering a wide variety of engineered products since 1892. By focusing on technical superiority along with guaranteed quality, Econ branded products are now sold in most of the major markets throughout the world. Given the strength of the North American markets, the Econ brand of ball valves, actuators, and accessories are now being inventoried and sold in the United States and Canada. Primary amongst the targeted market segments are the following:

- Chemical and Petrochemical
- Food and Beverage
- Heating, Ventilation and Air Conditioning
- Marine
- Mining
- Oil and Gas
- Original Equipment Manufacturing
- Pulp and Paper
- Semiconductor
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Product offerings include rack and pinion aluminum housed actuators with torque values up to 56,831 in-lb (6421 Nm). Econ products offer reliable and dependable automation for quarter turn valves.

Engineered and built to withstand most applications and environmental conditions, the precision design and quality of our actuators provide long and safe performance for valve control.

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The Econ brand of products are designed around today's standards and expectations that come from various agencies and customer groups. Throughout its extensive product offering, Econ products have added features, which make them suitable for a wide spectrum of applications.

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Quality is the driving force behind the Econ brand of products. Econosto has its own teams of Quality Inspectors stationed strategically close to or within their manufacturing sites in order to guarantee that their high quality standards are rigidly adhered to.

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Full Port, Flanged Floating Ball Valve with Spring Return Actuator and Quarter-Turn, Single Acting Smart Positioner.