TWISTMax

Powerful Compact Actuator

Semiconductor

Bio-Pharm

Hygienic

EGMO
NEUMO Ehrenberg Group

TWISTMax Quarter Turn Actuators

TWISTMax, EGMO new series of Stainless Steel innovated actuators which offer maximum power in a compact size.

The new series of innovated Quarter Turn actuators offers maximum power in a compact size. TWISTMax Quarter Turn actuators are pneumatically operated, and their special structure guarantees increased life cycle and reliability. TWISTMax Quarter Turn actuators are designed to mount on all types of ball valves, butterfly valves and any quarter turn motorized application.
The TWISTMax can be supplied with either double acting or spring return versions and control accessories.

Compact Shape
Compact size and superior torque efficiency makes TWISTMax quarter turn actuator preferable in narrow spaces, skids structures, machines, instrumentation and more.

Light weight
TWISTMax quarter turn actuator is a light actuator therefore most suitable not only for metal valves and pipes but also for plastic valves and plastic schemes as well.

Reliability
TWISTMax quarter turn actuator is designed to work in hard industrial environment.
The TWISTMax quarter turn actuator have a long life cycle – tested for more than one million cycles under load.

Innovation
Due to its unique design the TWISTMax quarter turn actuator is able to operate in N.O and N.C mode (2 modes in one actuator).
The TWISTMax quarter turn actuator is a Piston Rotating Actuator, therefore is most suitable for ball &butterfly valves.
TWISTMax actuator can be operated with other fluids.

Durability
TWISTMax quarter turn actuator is 100% Stainless Steel for maximum Durability and minimum weariness providing the user consistent performances.

Energy saving
30% less air consumption compare to other actuators.

TWISTMax quarter turn actuator is a competitive solution compare to R&P actuator.

About EGMO
EGMO, a member of the NEUMO Ehrenberg Group, is a worldwide leader in the manufacturing of high-end, stainless steel products for semiconductor, biopharmaceutical, food and chemical industries.
Founded in 1965, EGMO's customers benefit from decades of experience in innovative development and production of an extensive range of tubes, fittings, valves, vessels and other special components.
EGMO is ISO 9001:2008, CE, ASME & CRN certified and its products also meet the following standards: TUV, 3A, DIN, ISO, CE, SMS, BS (RJT)

NEUMO Ehrenberg Group
The NEUMO Ehrenberg Group, a diversified multinational organization headquartered in Germany, was founded by Senator Henry Ehrenberg in 1947.
The know-how, experience, and impressive track record of its companies, NEUMO, VNE and EGMO, have been earned over four decades. Today, the group is a leading manufacturer of worldwide stainless-steel process fittings and components. The Group's worldwide distribution network supports major multinational accounts.

TWISTMax Main Features

- Stainless Steel structure
- Light weight
- Superior torque efficiency
- Compatible with international standards
- Maintenance free
- Maximum torque
- Economical air consumption
- Long life cycle
- Compatible with any quarter - turn valve (ISO 5211, VDE/VDI)

TWISTMax Series

TWISTMax Advanced Series

TWISTMax Quarter Turn actuators Advanced series features an air pressure inlet from the side of the actuator, and as an option, also combines a NAMUR pad. In addition, the actuator is equipped with VDI/ VDE standard.
A position indicator, and proximity switch can be supplied. It is available in both double acting as well as spring return types.

TWISTMax Basic Series

The TWISTMax Quarter Turn actuators Basic series can be supplied with a position indicator and proximity switch.
It is available in both double acting as well as spring return types.

TWISTMax Torque Values

Spring Return

Pressure / Actuator Type		Units	5 BAR (72.5 PSI)			6 BAR (87 PSI)			7 BAR (101.5 PSI)			8 BAR (116 PSI)			Spring		
			Start	Middle	End	Start	Middle	End	Start	Middle	End	Start	Middle	End	Start	Middle	End
TMX4	A	Nm	9.8	1.2	4	12.5	2.6	6.3	15.3	4	8.5	18	5.4	10.8	8.1	2.5	5.4
		lbf/in	86.3	10.4	35.4	110.6	23	55.3	135	35.4	75.2	159.3	48.1	95.1	71.7	22.1	47.8
	B	Nm	10.8	1.3	4.4	13.8	2.9	6.9	16.8	4.4	9.4	19.8	5.9	11.9	8.1	2.5	5.4
		lbf/in	95.4	11.7	38.9	121.7	25.3	61.3	149	38.9	82.8	175.2	52.6	105.1	71.7	22.1	47.8
TMX5	A	Nm	13.3	2.8	4.7	17.4	5.1	9.4	21.4	7.3	14.1	25.5	9.6	18.8	14	4.8	10.5
		lbf/in	117.7	24.9	42	153.6	44.9	83.5	189.4	64.9	125	225.3	84.9	166.5	123.9	42.5	92.9
	B	Nm	15.3	3.2	5.4	20	5.9	10.8	24.6	8.4	16.2	29.3	11	21.6	14	4.8	10.5
		lbf/in	135.3	28.5	47.8	177.1	51.9	95.7	217.8	74.3	143.5	259.5	97.7	191.4	123.9	42.5	92.9
TMX7	A	Nm	40.7	6.5	24.1	55.9	9.7	33.2	71.1	12.9	42.3	86.3	16.1	51.4	30	6	24
		lbf/in	360.2	57.1	213.3	494.8	85.4	293.8	629.3	113.7	374.4	763.8	142.1	454.9	265.5	53.1	212.4
	B	Nm	46.8	7.5	27.7	64.3	11.2	38.2	81.8	14.8	48.6	99.2	18.5	59.1	30	6	24
		lbf/in	414.2	66.1	245.3	568.9	98.7	337.9	723.6	131.3	430.5	878.3	163.8	523.2	265.5	53.1	212.4
TMX9	A	Nm	66.2	18.5	31.2	84.4	30.5	52.4	102.6	42.5	73.6	120.8	54.5	94.8	55	23	46
		lbf/in	585.9	163.7	276.1	747	269.9	463.8	908.1	376.2	651.4	1069.2	482.4	839.1	486.8	203.6	407.1
TMX11	A	Nm	232	49.5	107.5	269	74	170	306	98.5	232.5	343	123	295	150	55	125
		lbf/in	2053.4	438.1	951.5	2380.9	655	1504.6	2708.3	871.8	2057.8	3035.8	1088.6	2611	1327.6	486.8	1106.3
TMX15	A	Nm	301.0	92.0	167.0	410.0	140.0	260.0	499.0	189.0	372.0	598.0	237.0	475.0	400.0	125.0	220.0
		lbf/in	2664.1	814.3	1478.1	3628.8	1239.1	2301.2	4416.5	1672.8	3292.5	5292.7	2097.6	4204.1	3540.3	1106.3	1947.2

Double Acting

Pressure / Actuator Type		Units	4 BAR (58 PSI)			5 BAR (72.5 PSI)			6 BAR (87 PSI)			7 BAR (101.5 PSI)			8 BAR (116 PSI)		
			Start	Middle	End	Start	Middle	End	Start	Middle	End	Start	Middle	End	Start	Middle	End
TMX4	A	Nm	14	4	9.7	16.4	5.1	11.9	18.8	6.3	14.1	21.2	7.4	16.3	23.6	8.6	18.5
		lbf/in	123.9	35.4	88.5	146	44.3	101.8	163.7	55.8	123.9	190.3	66.4	146	208	75.2	163.7
	B	Nm	15.4	4.4	10.7	18	5.6	13.1	20.7	6.9	15.5	23.3	8.1	17.9	26	10	20.4
		lbf/in	133.2	38.1	95.1	157	47.6	109.4	176	59.9	133.2	204.6	71.4	157	223.6	80.9	176
TMX5	A	Nm	19.8	7.9	20.8	24.1	10.2	23.8	28.4	12.4	26.8	32.7	14.7	29.8	37	16.9	32.8
		lbf/in	185.9	70.8	185.9	194.7	88.5	230.1	256.7	110.6	212.4	292.1	128.3	247.8	327.5	150.5	309.8
	B	Nm	22.8	9.1	23.9	27.7	11.7	27.4	32.7	14.3	30.8	37.6	16.9	34.3	42.6	19.4	37.7
		lbf/in	208.2	79.3	208.2	218.1	99.1	257.7	287.5	123.9	237.9	327.1	143.7	277.6	366.8	168.5	346.9
TMX7	A	Nm	57	11.6	47.8	69.4	14.9	59.6	81.8	18.2	71.4	94.2	21.5	83.2	106.6	24.8	95
		lbf/in	504.5	102.7	423.1	614.2	131.9	527.5	724	161.1	631.9	833.7	190.3	736.4	943.5	219.5	840.8
	B	Nm	65.6	13.3	55	79.8	17.1	68.5	94.1	20.9	82.1	108.3	24.7	95.7	122.6	28.5	109.3
		lbf/in	580.2	118.1	486.5	706.4	151.6	606.6	832.6	185.2	726.7	958.8	218.8	846.8	1085	252.4	966.9
TMX9	A	Nm	119	39	88	131.2	51.6	103.8	143.4	64.2	119.6	155.6	76.8	135.4	167.8	89.4	151.2
		lbf/in	1053.2	345.2	778.9	1161.2	456.7	918.7	1269.2	568.2	1058.5	1377.2	679.7	1198.4	1485.2	791.3	1338.2
TMX11	A	Nm	296	96	236	330	120	281	364	144	326	398	168	371	432	192	416
		lbf/in	2619.8	849.7	2088.8	2920.7	1062	2487.1	3221.7	1274.5	2885.3	3522.6	1486.9	3283.6	3823.5	1699.3	3681.9
TMX15	A	Nm	440.0	215.0	455.0	550.0	265.0	570.0	660.0	320.0	680.0	770.0	370.0	800.0	880.0	430.0	910.0
		lbf/in	3894.3	1902.9	4027.1	4867.9	2345.4	5044.9	5841.5	2832.2	6018.5	6815.1	3274.8	7080.6	7788.7	3805.8	8054.2

A - Advanced

B - Basic

Operating Pressure:
DA 4-8 Bar
SR 5-8 Bar
* At Environment Temperature

Operating Temperature:
-10°C to 60°C

* For TWISTMax actuators wider temperature range please contact EGMO representative

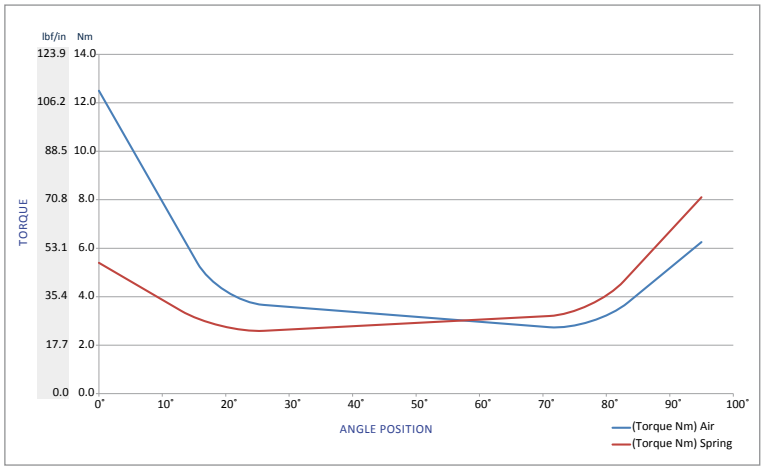
TWISTMax 4 Basic

Actuator Type	SR		DA	
Unit	KG	Lb	KG	Lb
Weight	0.5	1.1	0.4	0.9

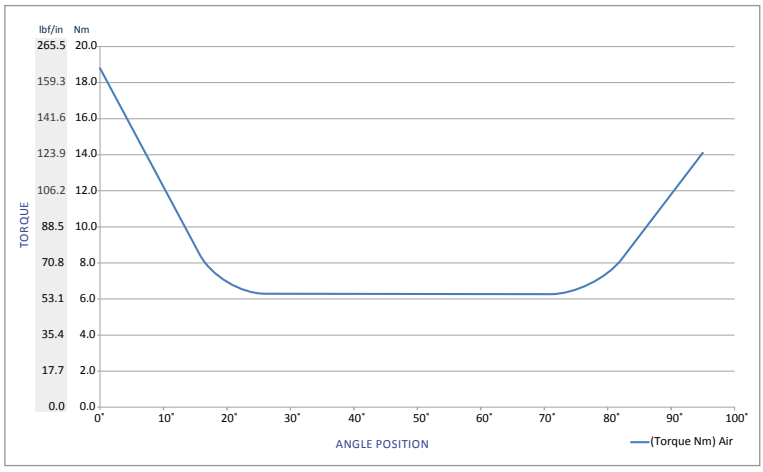
Actuator Type	SR	DA
Unit	Sec	Sec
Cycle Time	0.5	0.4

Actuator Type	SR		DA	
Unit	cc	in^3	cc	in^3
Air Consumption CCW	36.9	2.2	36.9	2.2
Air Consumption CW	-	-	61.8	3.8
Air Consumption Total	36.9	2.2	98.7	6.0

Torque Chart @ 6 Bar (Spring Return) Version



Torque Chart @ 6 Bar (Double Acting) Version



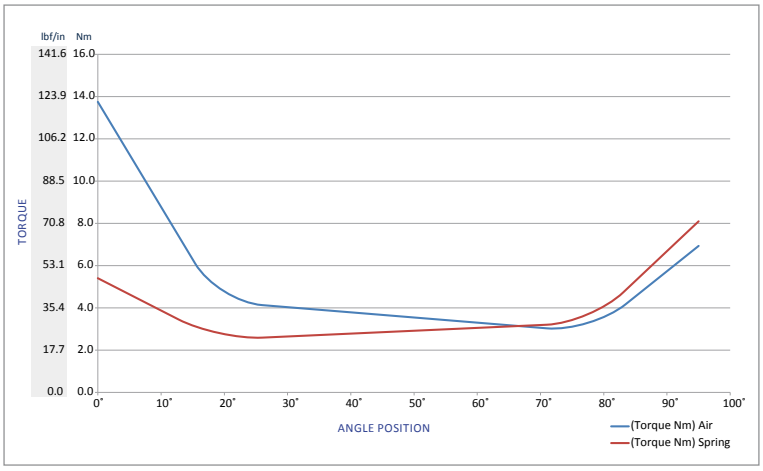
TWISTMax 4 Advanced

Actuator Type	SR		DA	
Unit	KG	Lb	KG	Lb
Weight	0.6	1.3	0.5	1.1

Actuator Type	SR	DA
Unit	Sec	Sec
Cycle Time	0.6	0.4

Actuator Type	SR		DA	
Unit	cc	in^3	cc	in^3
Air Consumption CCW	35.3	2.1	35.3	2.1
Air Consumption CW	-	-	60.2	3.7
Air Consumption Total	35.3	2.1	95.5	5.8

Torque Chart @ 6 Bar (Spring Return) Version



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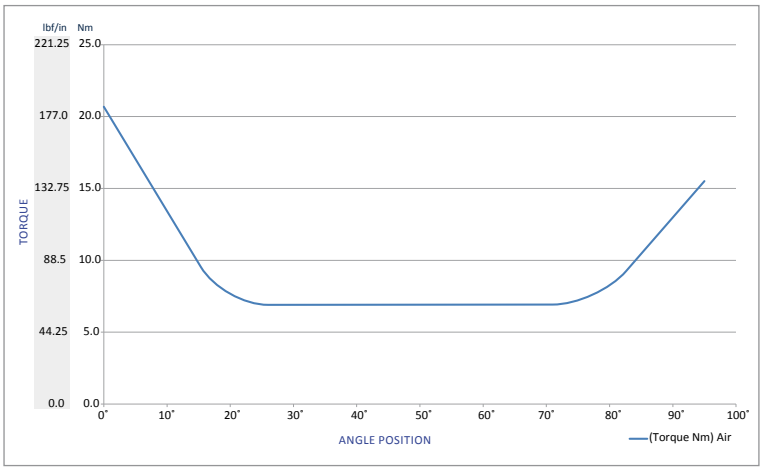


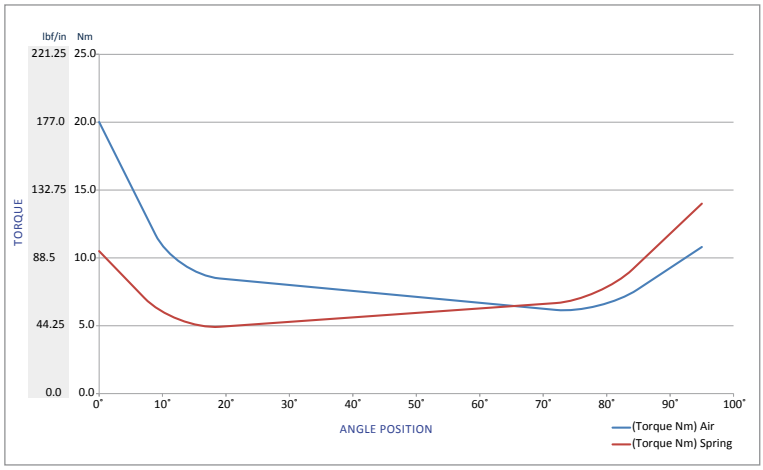
TWISTMax 5 Basic

Actuator Type	SR		DA	
Unit	KG	Lb	KG	Lb
Weight	0.9	2.0	0.8	1.8

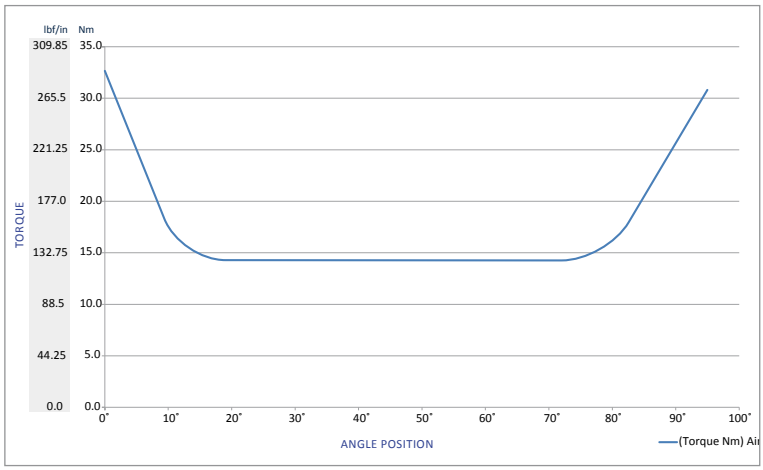
Actuator Type	SR	DA
Unit	Sec	Sec
Cycle Time	0.8	0.6

Actuator Type	SR		DA	
Unit	cc	in^3	cc	in^3
Air Consumption CCW	73.1	4.5	73.1	4.5
Air Consumption CW	-	-	118.0	7.2
Air Consumption Total	73.1	4.5	191.1	11.7

Torque Chart @ 6 Bar (Spring Return) Version



Torque Chart @ 6 Bar (Double Acting) Version



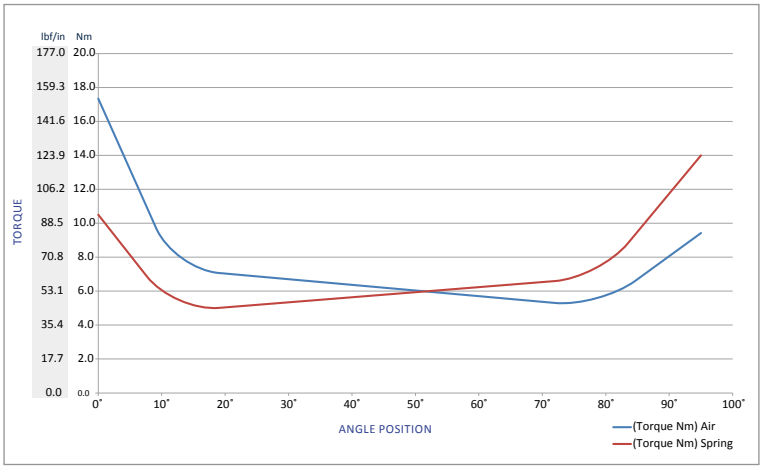
TWISTMax S Advanced

Actuator Type	SR		DA	
Unit	KG	Lb	KG	Lb
Weight	1.1	2.4	1.0	2.2

Actuator Type	SR	DA
Unit	Sec	Sec
Cycle Time	0.6	0.6

Actuator Type	SR		DA	
Unit	cc	in^3	cc	in^3
Air Consumption CCW	68.1	4.1	68.1	4.1
Air Consumption CW	-	-	112.1	6.8
Air Consumption Total	68.1	4.1	180.2	10.9

Torque Chart @ 6 Bar (Spring Return) Version



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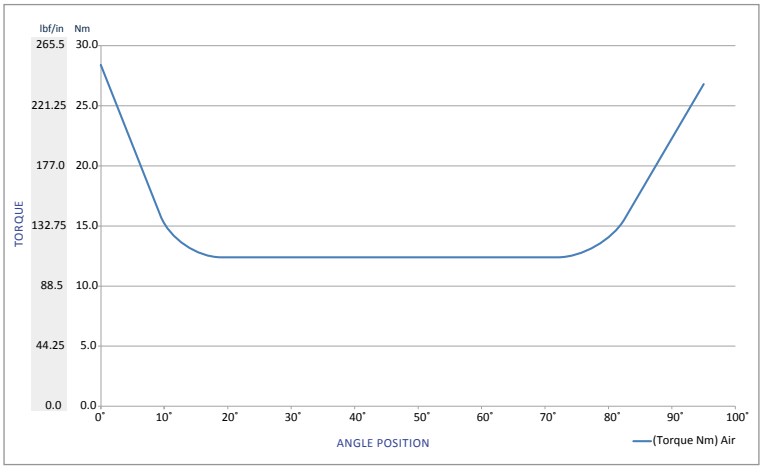


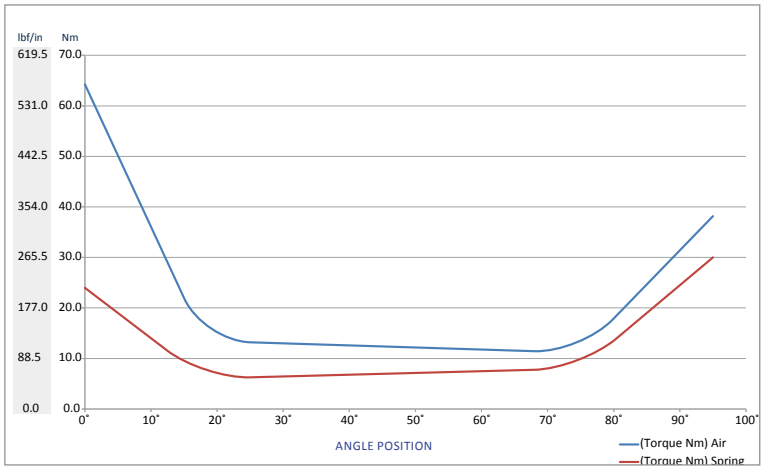
TWISTMax 7 Basic

Actuator Type	SR		DA	
Unit	KG	Lb	KG	Lb
Weight	1.8	4.0	1.5	3.3

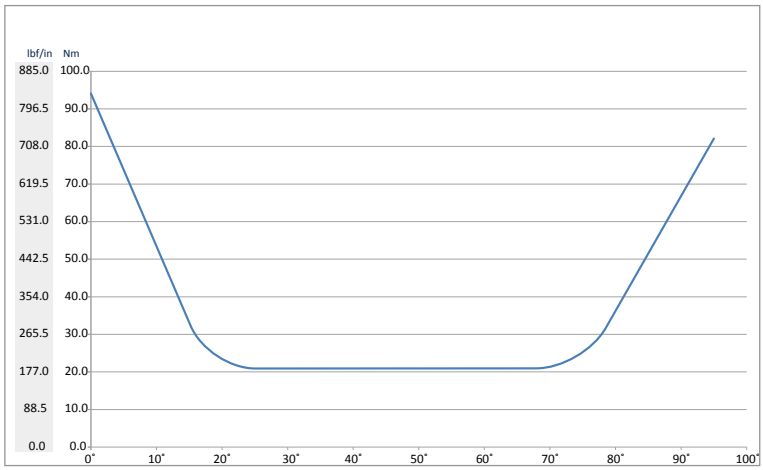
Actuator Type	SR	DA
Unit	Sec	Sec
Cycle Time	0.8	0.8

Actuator Type	SR		DA	
Unit	cc	in^3	cc	in^3
Air Consumption CCW	143.2	8.7	143.2	8.7
Air Consumption CW	-	-	244.7	14.9
Air Consumption Total	143.2	8.7	387.9	23.6

Torque Chart @ 6 Bar (Spring Return) Version



Torque Chart @ 6 Bar (Double Acting) Version



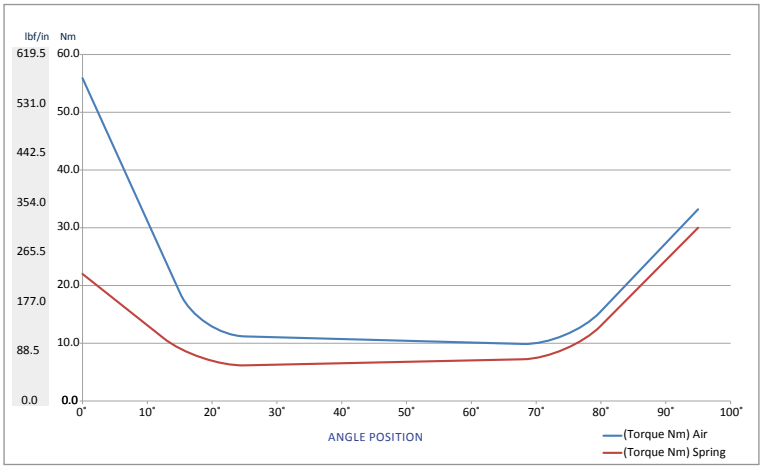
TWISTMax 7 Advanced

Actuator Type	SR		DA	
Unit	KG	Lb	KG	Lb
Weight	2.3	5.1	2.0	4.4

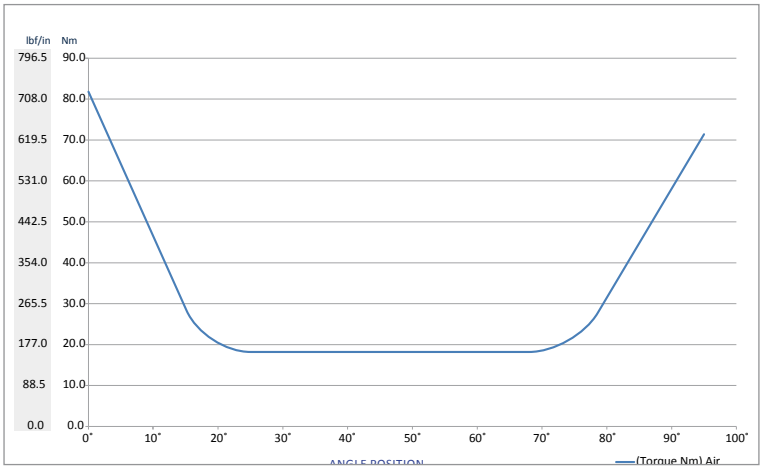
Actuator Type	SR	DA
Unit	Sec	Sec
Cycle Time	0.8	0.8

Actuator Type	SR		DA	
Unit	cc	in^3	cc	in^3
Air Consumption CCW	138.3	8.4	138.3	8.4
Air Consumption CW	-	-	239.6	14.6
Air Consumption Total	138.3	8.4	377.9	23.0

Torque Chart @ 6 Bar (Spring Return) Version



Torque Chart @ 6 Bar (Double Acting) Version



TWISTMax 9 Advanced*

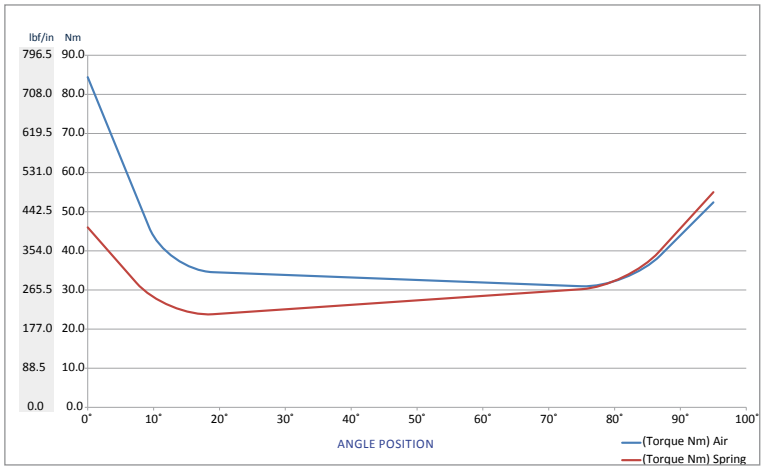
Actuator Type	SR		DA	
Unit	KG	Lb	KG	Lb
Weight	3.6	7.9	2.8	6.2

Actuator Type	SR	DA
Unit	Sec	Sec
Cycle Time	1.0	1.0

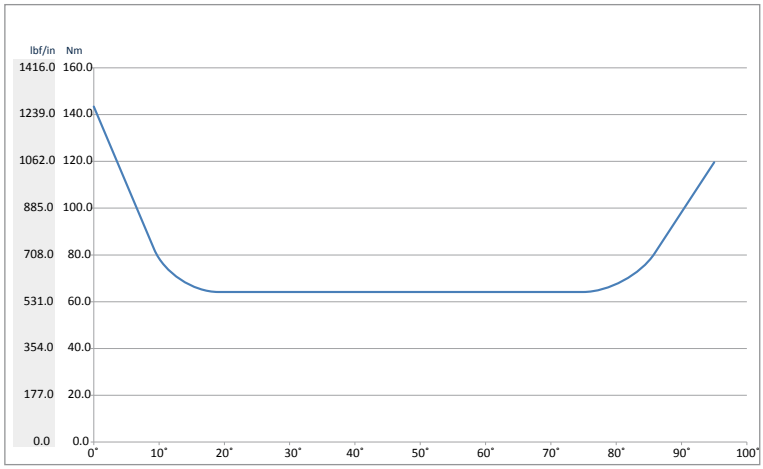
Actuator Type	SR		DA	
Unit	cc	in^3	cc	in^3
Air Consumption CCW	300.1	18.32	300.1	18.32
Air Consumption CW	-	-	516.1	31.49
Air Consumption Total	300.1	18.32	816.2	49.81

*Available in advanced version only

Torque Chart @ 6 Bar (Spring Return) Version



Torque Chart @ 6 Bar (Double Acting) Version



TWISTMax 11 Advanced*

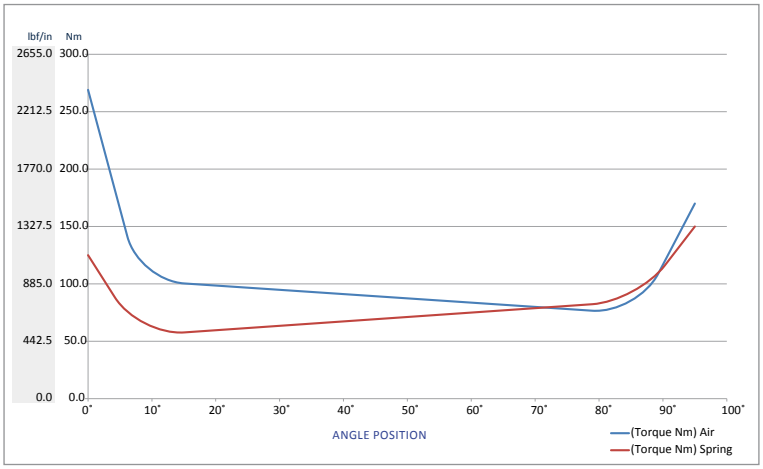
Actuator Type	SR		DA	
Unit	KG	Lb	KG	Lb
Weight	7.2	15.9	6.1	13.4

Actuator Type	SR	DA
Unit	Sec	Sec
Cycle Time	1.7	1.5

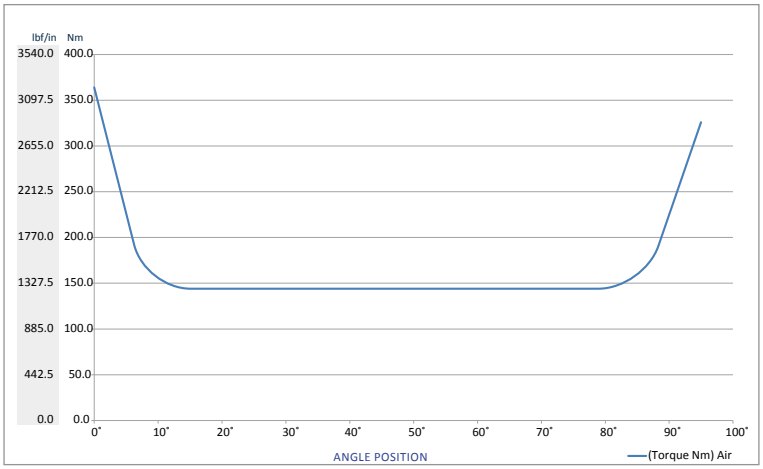
Actuator Type	SR		DA	
Unit	cc	in^3	cc	in^3
Air Consumption CCW	626.4	38.2	626.4	38.2
Air Consumption CW	-	-	1195.4	72.9
Air Consumption Total	626.4	38.2	1821.8	111.1

*Available in advanced version only

Torque Chart @ 6 Bar (Spring Return) Version



Torque Chart @ 6 Bar (Double Acting) Version



TWISTMax 15 Advanced*

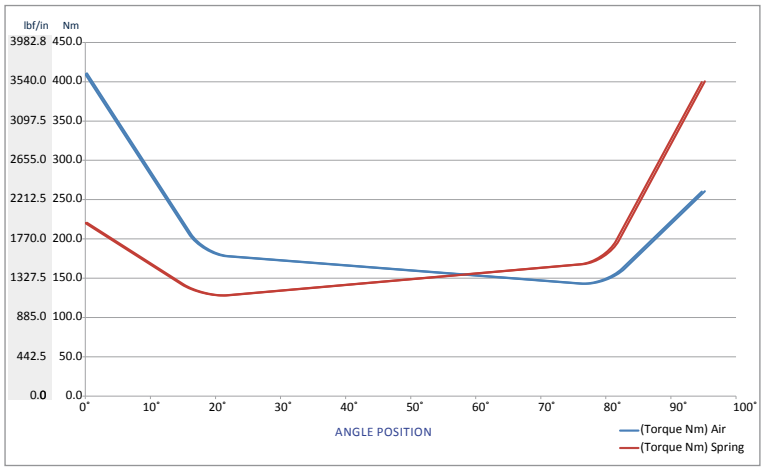
Actuator Type	SR		DA	
Unit	KG	Lb	KG	Lb
Weight	17.7	39.0	13.7	30.2

Actuator Type	SR	DA
Unit	Sec	Sec
Cycle Time	6.3	5.8

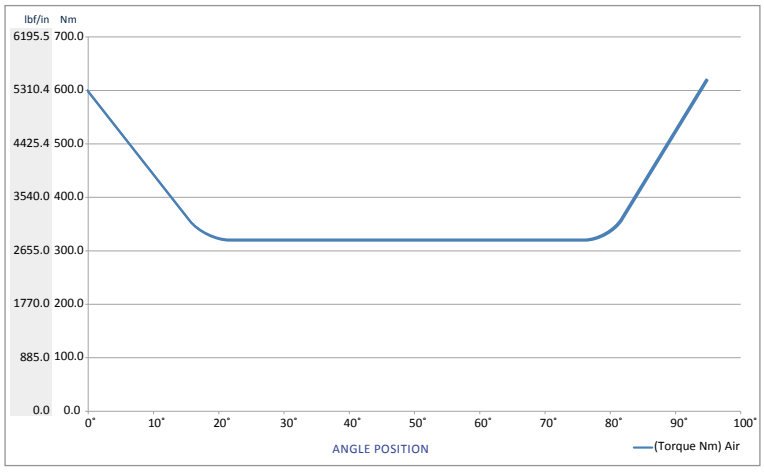
Actuator Type	SR		DA	
Unit	cc	in^3	cc	in^3
Air Consumption CCW	1636.0	99.8	1636	99.8
Air Consumption CW	-	-	3052	186.2
Air Consumption Total	1636.0	99.8	4688	286.1

*Available in advanced version only

Torque Chart @ 6 Bar (Spring Return) Version



Torque Chart @ 6 Bar (Double Acting) Version



How to Order

To specify the part completely, start with the product description and select the additional options as shown below:

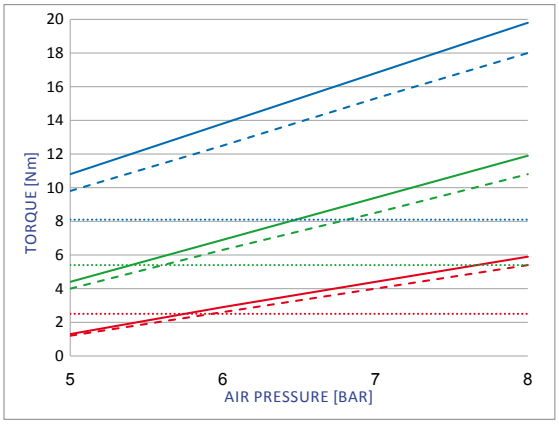
TMX 5 B SR

Product Line	Size	Version	Action	Material
TWISTMax	4 / 5 / 7 9 / 11 / 15	A - Advanced B - Basic	SR - Spring Return DA -Double Acting	Blank - SS 304L 6L - SS 316L

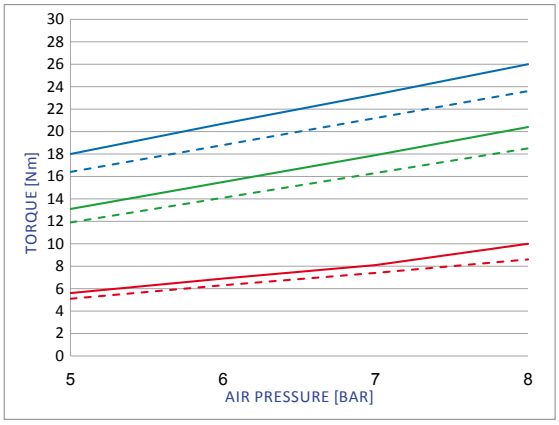
TWISTMax Torque Progress

Find the torque value, by crossing air pressure at the installation point with the valve position. Slide your finger along the columns and rows until you match up the necessary parameters to find the torque value.

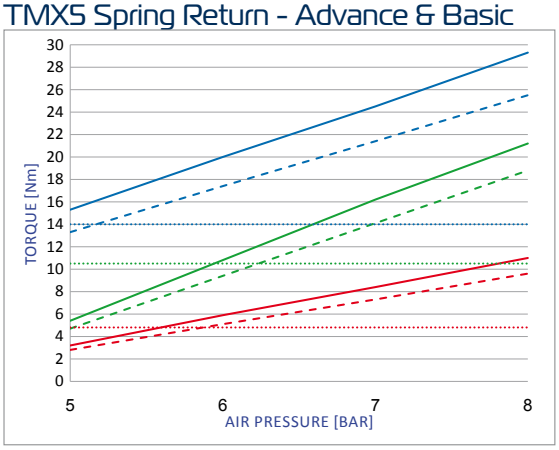
TMX 4 Spring Return - Advance & Basic



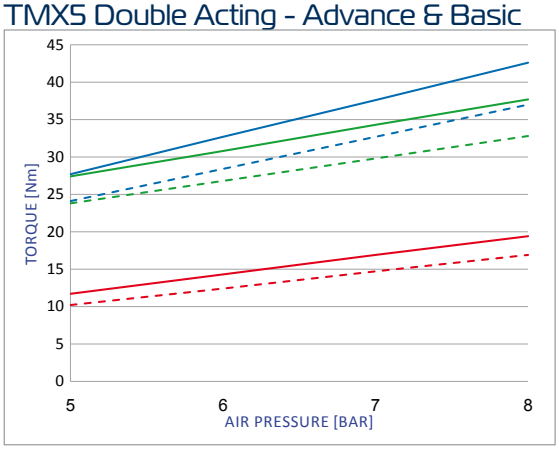
TMX4 Double Acting - Advance & Basic



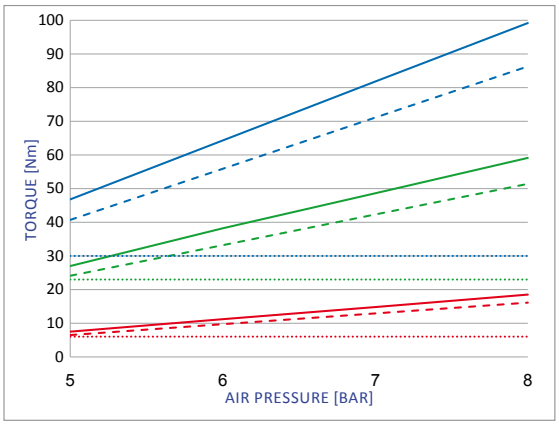
TMX5 Spring Return - Advance & Basic



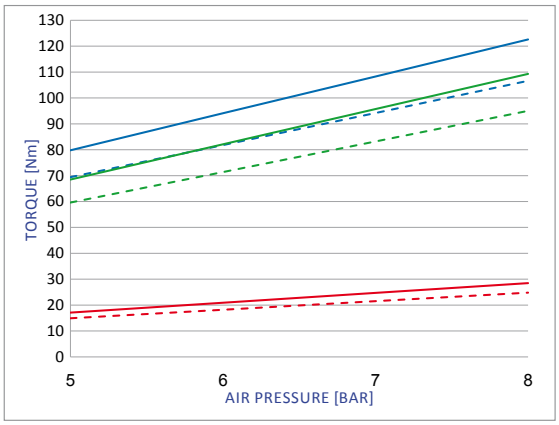
TMX5 Double Acting - Advance & Basic



TMX7 Spring Return - Advance & Basic

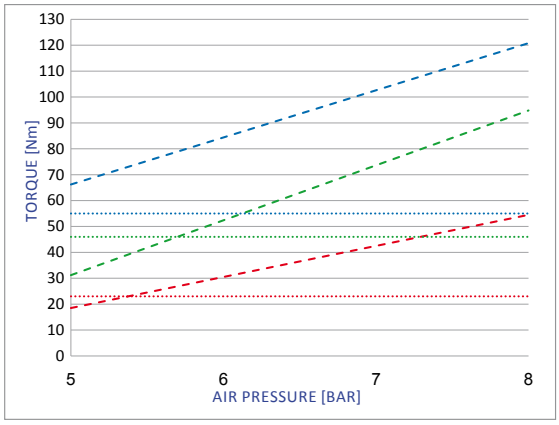


TMX7 Double Acting - Advance & Basic

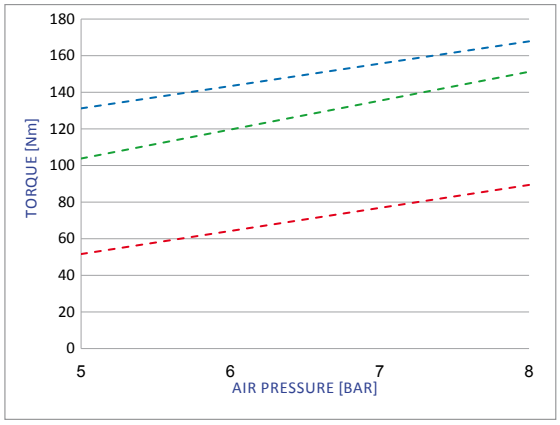


A - Start
A - Middle
A - End
B - Start
B - Middle
B - End
Spring - Start
Spring - Middle
Spring - End

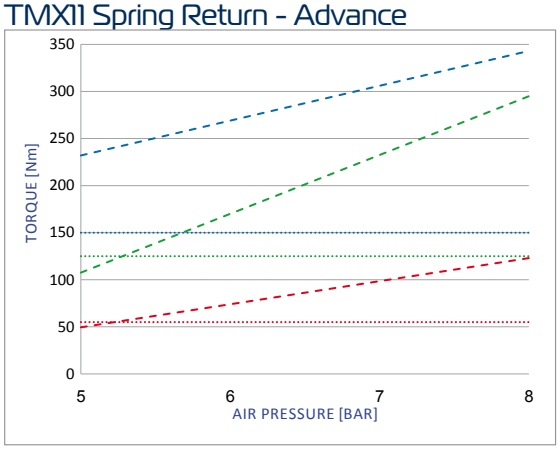
TMX9 Spring Return - Advance



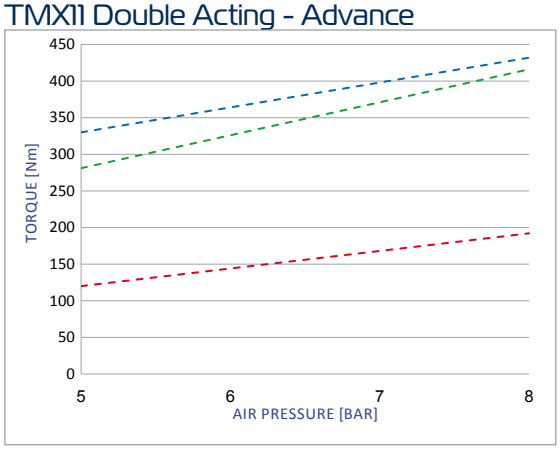
TMX9 Double Acting - Advance



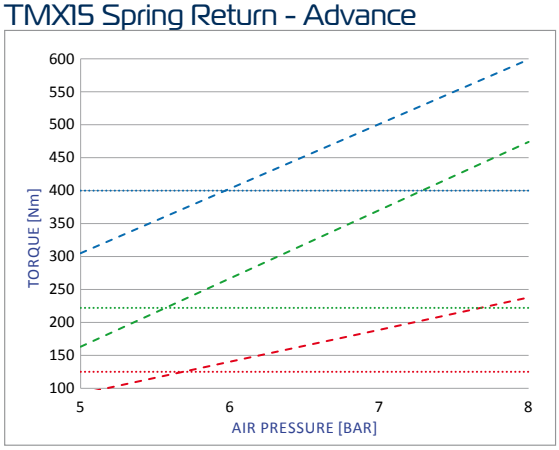
TMX11 Spring Return - Advance



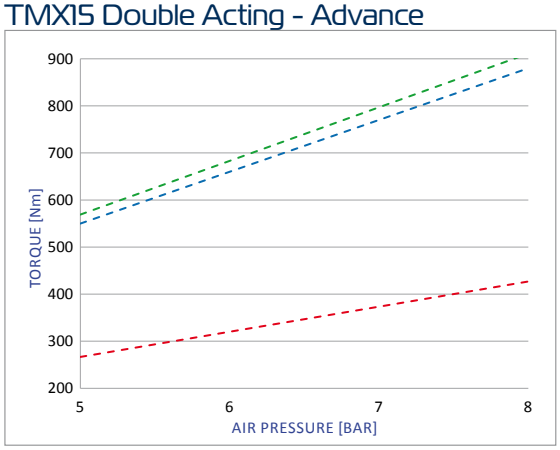
TMX11 Double Acting - Advance



TMX15 Spring Return - Advance



TMX15 Double Acting - Advance



A - Start
A - Middle
A - End
B - Start
B - Middle
B - End
Spring - Start
Spring - Middle
Spring - End

TWISTMax Dimensions

Table of Dimensions

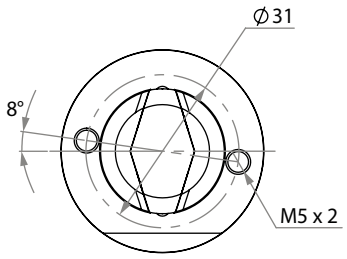
Model			L	L1	ØD	⌬	ØPCD1	ØPCD2	Ød1	Ød2	ISO 5211 Flange Type	Air Connection Size	
												I	O
TMX 4	A	mm	111.50	129.00	41.00	6.40	29.00	-	M5	-	-	M5	M5
		In	4.40	5.08	1.62	0.25	11.50						
	B	mm	104.00	N/A	41.00	6.40	29.00					⅛" BSPP	⅛" BSPP
		In	4.10	N/A	1.62	0.25	11.50						
TMX 5	A	mm	140.50	158.20	52.00	9.00	36.00	N/A	M5	N/A	F03	⅛" BSPP	⅛" BSPP
		In	5.53	6.23	2.00	0.35	14.17						
	B	mm	123.50	N/A	52.00	9.00	36.00					⅛" BSPP	⅛" BSPP
		In	4.86	N/A	2.00	0.35	14.17						
TMX 7	A	mm	154.00	171.60	70.00	11.00	42.00	-	M5	-	F04	⅛" BSPP	⅛" BSPP
		In	6.06	6.76	2.75	0.43	16.50						
	B	mm	136.00	N/A	70.00	11.00	42.00					⅛" BSPP	⅛" BSPP
		In	5.35	N/A	2.75	0.43	16.50						
TMX 9	A	mm	185.00	202.50	88.90	14.00	50.00	70.00	M6	M8	F05/F07	⅛" BSPP	⅛" BSPP
		In	7.28	7.97	3.50	0.55	1.97	2.76					
TMX 11	A	mm	227.70	245.50	114.30	17.00	70.00	102.00	M8	M10	F07/F10	⅛" BSPP	⅛" BSPP
		In	8.96	9.66	4.50	0.67	2.76	4.02					
TMX 15	A	mm	309.00	327.20	152.40	27.00	102.00	125.00	M10	M12	F10/F12	¼" BSPP	¼" BSPP
		In	8.96	12.88	6.00	1.06	4.02	4.92					

A - Advanced | B - Basic

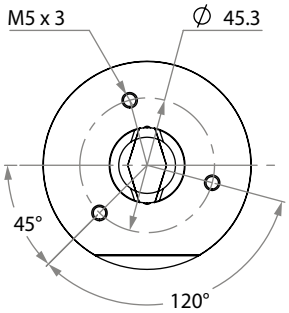
Warning! For your safety

The system designer and user have the sole responsibility for selecting products suitable for their special application requirements, ensuring their safe and trouble-free installation, operation, and maintenance. Application details, material compatibility and product ratings should all be considered for each selected product. Improper selection, installation or use of products can cause property damage or personal injury.

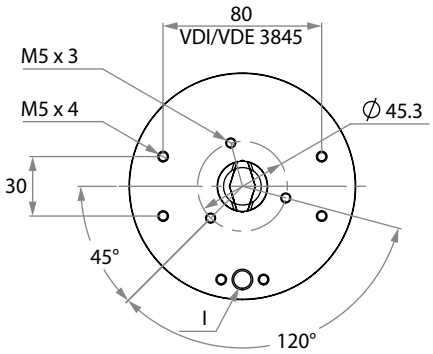
TWISTMax 4 Advanced Top View



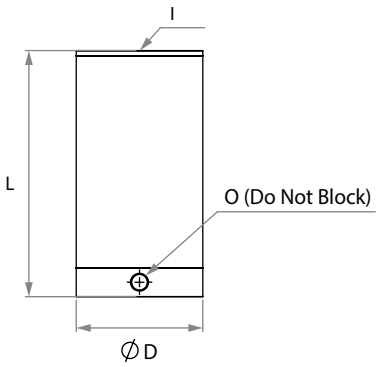
TWISTMax 5, 7, 9 Advanced Top View



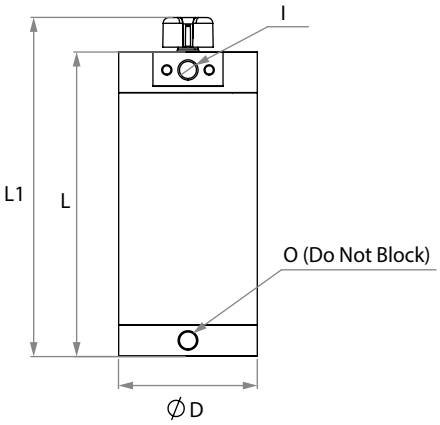
TWISTMax 11, 15 Advanced Top View



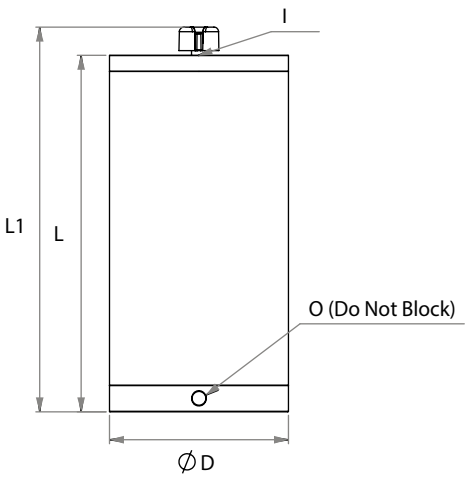
TWISTMax 4, 5, 7 Basic Front View



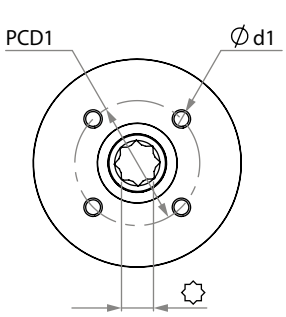
TWISTMax 4, 5, 7, 9 Advanced Front View



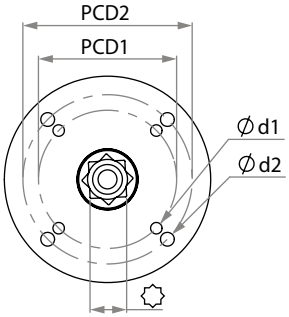
TWISTMax 11, 15 Advanced Front View



TWISTMax 4, 5, 7 Bottom View



TWISTMax 9, 11, 15 Bottom View



TMX Control Head by EGMO

TMX control head is compatible with most PLC (Programmable Logic Controllers) automated systems with Digital communication or ASI BUS (AS-interface).

- Reliable & Cost-Effective
- Easy maintenance
- Standard functionality
- Small

Operating principle

✓ TMX control head receives signals from a control panel or from a PLC to actuate the valve. It sends a signal to the PLC or to the control panel and indicates the position of the valve.

✓ TMX control head is compatible with any process in food & beverage, biopharmaceutical and petrochemical industries.

✓ TMX control head incorporates indication and command devices to monitor all butterfly and ball process valves.

✓ TMX control head displays valve position connected to Air/Spring actuator:
Dome LED Green: Actuator operated by spring
Dome LED Amber: Actuator operated by air

✓ TMX control head displays valve position connected to Air/Air actuator:
During initial installation the end user may determine the color indication.

* It is recommended to use the green color to indicate valve closed position.

TMX Control Head - Versions

Part Number	Pneumatic Operation		Power Supply			Notes
	Spring/Air 3/2	Air/Air 5/2	24VDC	110VAC	ASIBUS	
618-00726	√		√			
618-00723		√	√			
618-00725	√				√	29.5 ~ 31.5 VDC
618-00722		√			√	29.5 ~ 31.5 VDC
618-00727	√			√		
618-00724		√		√		

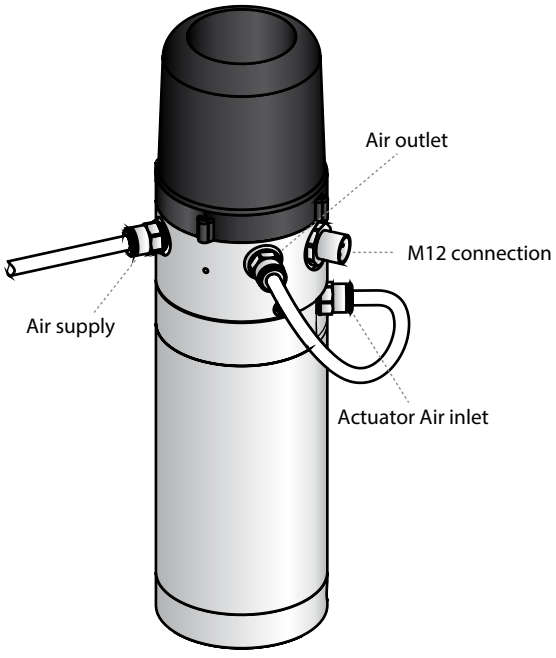
Operation lead time using control head

TWISTMax Model	Air Operation [sec]	Spring Operation [sec]
TMX 4 (35.3cc)	0.1	0.3/ *0.1
TMX 5 (68.1cc)	0.3	0.6/ *0.1
TMX 7 (138.3cc)	0.6	1.2/ *0.3
TMX 9 (300cc)	1.4	2.7/ *0.5
TMX 11 (626.4cc)	3.0	5.7/ *1.0
TMX 15 (1700cc)	8.3	15.7/ *3.0

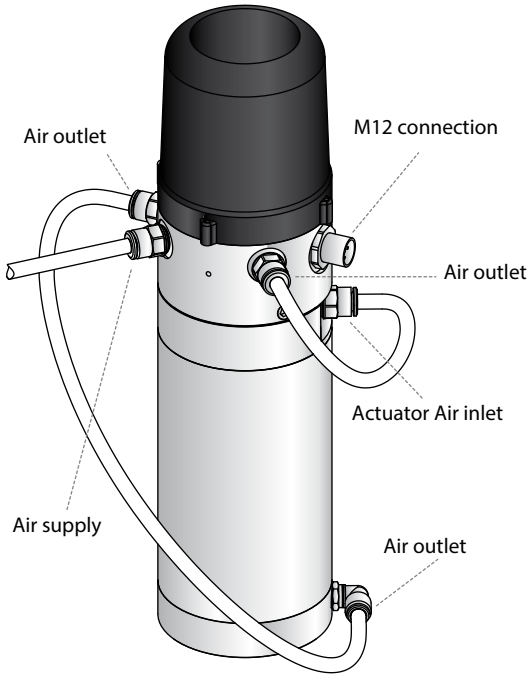
* The right value indicates the spring operation time using a pressure relieve valve

Technical specifications

Body Material:	POM
Cover:	Polycarbonate
Sealing:	NBR
Protection class:	IP67
Supply Voltage:	24 [VDC], 110 [VAC], ASIBUS (30 [VDC])
Max. Working temperature	-10° C (14° F) to 50ºC (122° F)
Solenoid Valve type:	3/2way (Air/Spring), 5/2 way (Air/Air)
Electrical multiple connections:	M12X (5-pole) connector
Feedback:	Pos. Open (digital) 90° Pos. Closed (digital) 0°
Power consumption:	2.0 [W]
Stroke range Valve spindle:	0° to 90°
Weight:	400 [gr]
Dimensions:	diameter 70 [mm], height: 120[mm]



Spring Return 3/2



Double Acting 5/2

TWISTMax Compatible Accessories

Upper Visual Position Indicator

IFM

Coupling

VDI/VDE 3845 Adapter

VDI/VDE 3845 Plate

Namur Pad Adapter

Universal Bracket for Ball Valves

Bracket for Butterfly Valves

Control Head

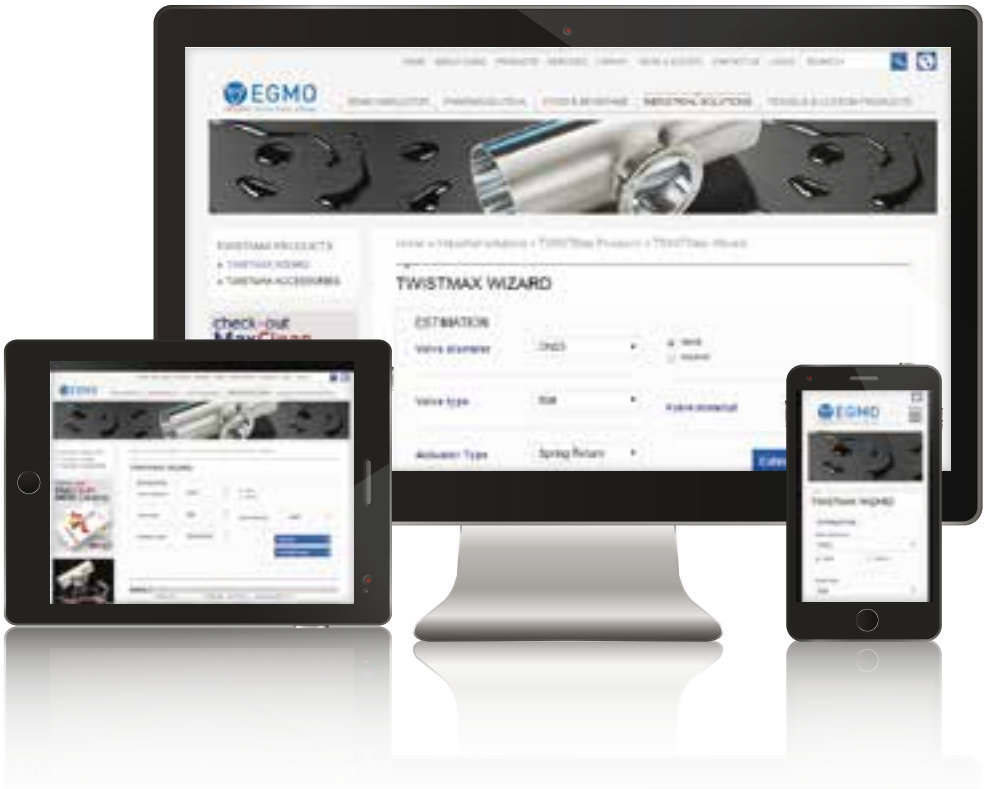
Electro Pneumatic Positioner

Proximity Switch

TWISTMax Actuator Wizard

Find the optimal actuator size for your needs

TWISTMax Actuator Wizard will guide you through a series of questions about the valve you are using and work requirements suitable for your needs.
The result will be a recommendation of the optimal TWISTMax actuator size to meet your application requirements.



Be Smart!

Scan this code to launch the wizard webpage

http://www.egmo.co.il/TWISTMax-Wizard

NEUMO EHRENBERG GROUP

TWISTMax

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