



TECHNICAL DOCUMENTATION

NEW! ENHANCED SAFETY AND COMPLIANCE
THE BETTER AUTOMATION SOLUTION

Pneumatic Part Turn Valve Actuator
Series XRP & XRP Upgrade
Single Acting & Double Acting

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XOMOX PNEUMATIC ACTUATOR TYPE XRP

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XOMOX PNEUMATIC ACTUATOR DESIGN FEATURES & BENEFITS

BENEFITS

- Regulatory compliance to EN15714-3*
- Simplified maintenance
- Expanded static supply pressure range upto 10 bar*
- Ensuring hazardous area safety with ATEX IIC
- Tailored performance with enhanced safety
- Versatile application

UNIQUE DESIGN FEATURES

- Pre-compressed encapsulated springs allow for easier assembly/disassembly and provide an extra layer of safety protection during maintenance*.
- Compliance with international interface standards:-

EN15714-3:2022*	EC Machinery Directive 2006/42/EC
VDE/VDI 3845 (NAMUR)	SIL2 & 3 acc. IEC 61508-1, table 2 and IEC 61508-2, 7.4.4.2
ISO 5211	NAMUR NE14
ATEX - IIC	NAMUR NE19
- Patented pressure balanced shaft prevents axial forces acting on the bearings. This results in high reliability, long life and low wear.
- Shaft and bearing bushings mounted from inside, are of blow-out safe design with no need for external circlips or snap rings providing high operational safety and better corrosion resistance.
- Robust anodized aluminum bodies ensure even expansion under thermal influences, no jamming of the piston and a high level of corrosion protection.
- Self-lubricating piston guide bands made of graphite infused teflon prevents piston tilt under load, provide longer service life due to low friction, with no maintenance required.
- Simple retrofitting of accessories, such as solenoid valves, limit switch, positioners, etc.
- Compact design allows extensive direct mounting orientations.

**Encapsulated springs, EN Standard Compliance are only applicable for XRP Upgrade Series. (Size ranging from Size 012 to 180)*

XOMOX PNEUMATIC ACTUATOR TYPE XRP Size 001

Size 001

1. Design Features

Body Material:	Aluminium anodized acc. DIN 17611 (E6), calibrated
End Caps:	plastic end caps RAL 9005 (black)
End Cap Version:	air end caps
End Cap Screws:	material and strength acc. A2 70, DIN 912
Weight:	0.3 kg
Air Connection:	G 1/8"
Shaft:	one piece
Rotation:	clockwise => double acting and spring to close
	anti-clockwise => double acting and spring to open
Lubrication:	permanent greasing
Piston Support:	PTFE guiding tapes
Interfaces:	
Actuator/valve:	F03; flange acc. to DIN 5211 without centring key, with female square

2. Technical Data

Actuations Principle:	Rack and Pinion
Allowable Pressures / Max Static Pressure:	7 bar
Working Pressure / Max Dynamic Pressure:	2.5 to 7 bar
Tightness Test:	1.1 x max. static pressure
Cycle Time:	t _{open} < 1.0 sec., with solenoid valve Kv=1.2 [m³/h], at 6 bar air supply pressure
	t _{close} < 1.0 sec., with solenoid valve Kv=1.2 [m³/h], at 6 bar air supply pressure
Travel:	90° standard, other options upon request
Air Consumption:	theoretical 0.06 N l/h at 1 bar per cycle 0° - 90°
Life Span:	1 Mio. cycles at 6 bar working pressure, 20°C ambient temperature acc. VDI/VDE 3844
Ambient Temperature:	-20 to + 80° C (standard)
Installation Position:	random
Medium:	air and all non-aggressive gases

	Air Supply Pressure [bar]						
	2	3	4	5	6	7	8
Torques (Nm)	2.48 Nm	3.72 Nm	4.96 Nm	6.2 Nm	7.44 Nm	8.68 Nm	NA

Figures for spring-torques and corresponding air-torques => see page 7

XOMOX PNEUMATIC ACTUATOR TYPE XRP Size 002

Size 002

1. Design Features

Body Material:	Aluminium anodized acc. DIN 17611 (E6), calibrated
End Caps:	plastic end caps RAL 9005 (black)
End Cap Version:	air end caps
End Cap Screws:	material and strength acc. A2 70, DIN 912
Weight:	0.6 kg
Air Connection:	G 1/8"
Shaft:	one piece
Rotation:	clockwise => double acting and spring to close
	anti-clockwise => double acting and spring to open
Lubrication:	permanent greasing
Piston Support:	PTFE guiding tapes
Interfaces:	
Actuator/valve:	F04/F05; flange acc. DIN 5211 without centring key, with female square

2. Technical Data

Actuations principle:	Rack and Pinion
Allowable Pressures / Max Static Pressure:	7 bar
Working Pressure / Max Dynamic Pressure:	2.5 to 7 bar
Tightness test:	1.1 x max. static pressure
Cycle Time:	$t_{open} < 1.0 \text{ sec.}$, with solenoid valve $K_v=1.2 \text{ [m}^3/\text{h}]$, at 6 bar air supply pressure
	$t_{close} < 1.0 \text{ sec.}$, with solenoid valve $K_v=1.2 \text{ [m}^3/\text{h}]$, at 6 bar air supply pressure
Travel:	90° standard, other options upon request
Air Consumption:	theoretical 0.09 N l/h at 1 bar per cycle 0° - 90°
Life span:	1 Mio. cycles at 6 bar working pressure, 20°C ambient temperature acc. VDI/VDE 3844
Ambient Temperature:	-20 to + 80° C (standard)
Installation Position:	random
Medium:	air and all non-aggressive gases

	Air Supply Pressure [bar]						
	2	3	4	5	6	7	8
Torques (Nm)	5.4 Nm	8.1 Nm	10.8 Nm	13.5 Nm	16.2 Nm	18.9 Nm	NA

Figures for spring-torques and corresponding air-torques => see page 7

XOMOX PNEUMATIC ACTUATOR TYPE XRP Size 006

Size 006

1. Design Features

Body Material:	Aluminium anodized acc. DIN 17611 (E6), calibrated
End Caps:	plastic end caps RAL 9005 (black)
End Cap Version:	air end caps
End Cap Screws:	material and strength acc. A2 70, DIN 912
Weight:	1.2 kg
Air Connection:	G 1/8"
Shaft:	one piece
Rotation:	clockwise => double acting and spring to close
	anti-clockwise => double acting and spring to open
Lubrication:	permanent greasing
Piston Support:	PTFE guiding tapes
Interfaces:	
Actuator/valve:	F04/F05; flange acc. DIN 5211 without centring key, with female square
Limit switches, positioner:	VDI/VDE 3845 (Namur)

2. Technical Data

Actuations principle:	Rack and Pinion
Allowable Pressures / Max Static Pressure:	7 bar
Working Pressure / Max Dynamic Pressure:	2.5 to 7 bar
Tightness test:	1.1 x max. static pressure
Cycle Time:	t _{open} < 1,0 sec., with solenoid valve Kv=1.2 [m³/h], at 6 bar air supply pressure
	t _{close} < 1,0 sec., with solenoid valve Kv=1.2 [m³/h], at 6 bar air supply pressure
Travel:	90° standard, other options upon request
Air Consumption:	theoretical 0.13 N l/h at 1 bar per cycle 0° - 90°
Life span:	1 Mio. cycles at 6 bar working pressure, 20°C ambient temperature acc. VDI/VDE 3844
Ambient Temperature:	-20 to + 80° C (standard)
Installation Position:	random
Medium:	air and all non-aggressive gases

	Air Supply Pressure [bar]						
	2	3	4	5	6	7	8
Torques (Nm)	12.4 Nm	18.6 Nm	24.8 Nm	31 Nm	37.2 Nm	43.4 Nm	NA

Figures for spring-torques and corresponding air-torques => see page 7

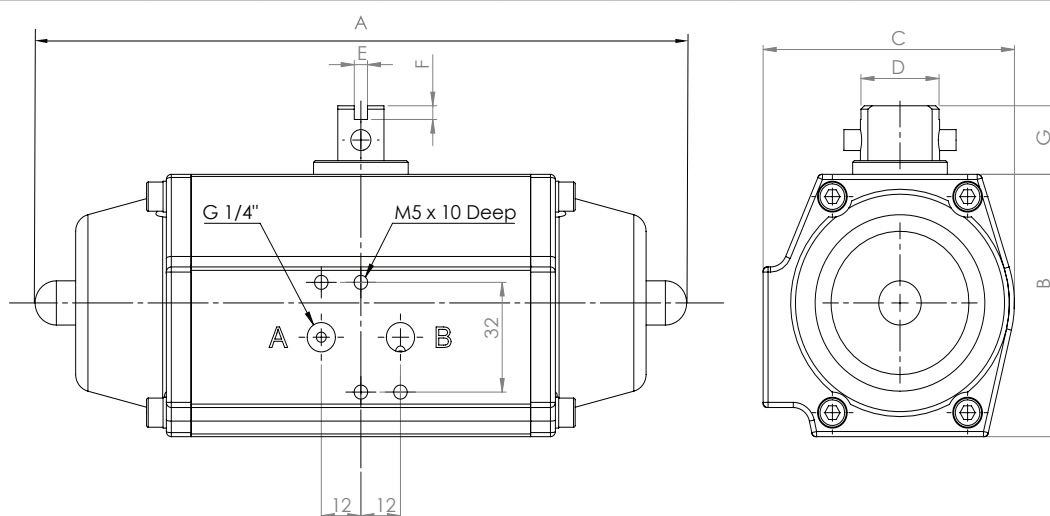
XOMOX PNEUMATIC ACTUATOR TYPE XRP Size 001 to 006

Size 001 to 006

• Connecting flange ISO 5211, with female square DIN 3337.	• Connection for positioner and limit switch VDI/VDE 3845 (Namur)*
• Connection for solenoid valve VDI/VDE, Namur	
* Size A: Bore pattern 60 x 25 mm, shaft height 30 mm, Size B: Bore pattern 60 x 30 mm	

Dimensions and Weights

Size	Connection	A	B	C	D	E	F	G	kg
R.. 001	F03 V09	88	45	45	8	4	4	15	0.6
R.. 002	F04 V11	133	56	60	12	4	4	20	0.8
R.. 006	F05 V14	176	66	71	22	4	4	20	1.1



Torques (Nm)

Double-acting Actuators

Model	3 Bar	3.5 Bar	4 Bar	4.5 Bar	5 Bar	5.5 Bar	6 Bar	6.5 Bar	7 Bar	7.5 Bar	8 Bar
XS 001 D00A	3.7	4.3	5	5.6	6.2	6.8	7.4	8.1	8.7	N/A	N/A
XS 002 D00A	8.1	9.5	10.8	12.2	13.5	14.9	16.2	17.6	18.9	N/A	N/A
XS 006 D00A	18.6	21.7	24.8	27.9	31	34.1	37.2	40.3	43.4	N/A	N/A

NOTES:

· All torque values are Newton-meters for pressure supply listed.

Torques (Nm)

Single-acting Actuators

	Spr.	Spring		3 Bar		3.5 Bar		4 Bar		4.5 Bar		5 Bar		5.5 Bar		6 Bar		6.5 Bar		7 Bar		7.5 Bar		8 Bar	
		Start	End	Start	End	Start	End	Start	End	Start	End	Start	End	Start	End	Start	End	Start	End	Start	End	Start	End	Start	End
XS 002	02	1,8	0,9	7,2	6,3	8,6	7,7	9,9	9	11,3	10,4	12,6	11,7	14	13,1	15,3	14,4	16,7	15,8	18	17,1	N/A	N/A	N/A	N/A
	04	3,6	1,8	6,3	4,5	7,7	5,9	9	7,2	10,4	8,6	11,7	9,9	13,1	11,3	14,4	12,6	15,8	14	17,1	15,3	N/A	N/A	N/A	N/A
	06	5,4	2,7	5,4	2,7	6,8	4,1	8,1	5,4	9,5	6,8	10,8	8,1	12,2	9,5	13,5	10,8	14,9	12,2	16,2	13,5	N/A	N/A	N/A	N/A
	08	7,2	3,6	4,5	0,9	5,9	2,3	7,2	3,6	8,6	5	9,9	6,3	11,3	7,7	12,6	9	14	10,4	15,3	11,7	N/A	N/A	N/A	N/A
	10	8	4,5					6,3	2,8	7,7	3,2	9	5,5	10,4	5,9	11,7	8,2	13,1	8,6	14,4	10,9	N/A	N/A	N/A	N/A
	12	10,8	5,4									8,1	2,7	9,5	4,1	10,8	5,4	12,2	6,8	13,5	8,1	N/A	N/A	N/A	N/A
XS 006	02	4	2	16,6	14,6	19,6	17,7	22,6	20,8	25,9	23,9	29	27	32,1	30,1	35,2	33,2	38,3	36,3	41,4	39,4	N/A	N/A	N/A	N/A
	04	8,2	4,1	14,5	10,4	17,6	13,5	20,7	16,6	23,8	19,7	26,9	22,8	30	25,9	33,1	29	36,2	32,1	39,3	35,2	N/A	N/A	N/A	N/A
	06	12,2	6,1	12,5	6,4	15,6	9,5	18,7	12,6	21,8	15,7	24,9	18,8	28	21,9	31,1	25	34,2	28,1	37,3	31,2	N/A	N/A	N/A	N/A
	08	16,4	8,2	10,4	2,2	13,5	5,3	16,6	8,4	19,7	11,5	22,8	14,6	25,9	17,7	29	20,8	32,1	23,9	35,2	27	N/A	N/A	N/A	N/A
	10	20,6	10,3					14,5	4,2	17,6	7,3	20,7	10,4	23,8	13,5	26,9	16,6	30	19,7	33,1	22,8	N/A	N/A	N/A	N/A
	12	24,6	12,3									18,7	6,4	21,8	9,5	24,9	12,6	28	15,7	31,1	18,8	N/A	N/A	N/A	N/A

XOMOX PNEUMATIC ACTUATOR TYPE XRP Size 012

Size 012

1. Design Features

Body Material:	Aluminium anodized acc. DIN 17611 (E6), calibrated	
End Caps:	Aluminium anodized end caps RAL 9005 (black), min. 60µm	
End Cap Version:	air end caps	
End Cap Screws:	material and strength acc. A2 70, DIN 912	
Weight:	2.2 kg	Double-acting: 2.4kg*; single-acting (12 springs): 2.8kg*
Air Connection:	G ¼"	
Shaft:	blow-out-proof, pressure-balanced, one piece	
Rotation:	clockwise => double acting and spring to close	
	anti-clockwise => double acting and spring to open	
Lubrication:	permanent greasing	
Piston Support:	PTFE guiding tapes	
Interfaces:		
Actuator/valve:	F05; flange acc. to DIN 5211 with female square acc. DIN 3337	
Solenoid valve:	VDI/VDE 3845 (Namur)	
Limit switches, positioner:	VDI/VDE 3845 (Namur)	
Position indicator:	red plastic indicator	
Production:	acc. DIN EN ISO 9001	

*Applicable only for XRP Upgrade Series. (Size ranging from Size 012 to 180)

2. Technical Data

Actuations principle:	Rack and Pinion	
Allowable Pressures / Max Static Pressure:	8 bar	10 bar*
Working Pressure / Max Dynamic Pressure:	2 to 8 bar	
Tightness test:	1.1 x max. static pressure	
Cycle Time:	t _{open} < 1.0 sec., with solenoid valve Kv=1.2 [m³/h], at 6 bar air supply pressure	
	t _{close} < 1.0 sec., with solenoid valve Kv=1.2 [m³/h], at 6 bar air supply pressure	
Travel:	90° standard, other options upon request	
Air Consumption:	theoretical 0.18 N l/h at 1 bar per cycle 0° - 90°	
Life span:	1 Mio. cycles at 6 bar working pressure, 20°C ambient temperature acc. VDI/VDE 3844	
Ambient Temperature:	-20 to + 80° C (standard)	
Installation Position:	random	
Medium:	air and all non-aggressive gases	

Model	3 Bar	3.5 Bar	4 Bar	4.5 Bar	5 Bar	5.5 Bar	6 Bar	6.5 Bar	7 Bar	7.5 Bar	8 Bar
XS/XUS 012 D00B	37	43	49	55.5	62	67.8	74	80.1	86	96.5	99

NOTES:

All torque values are Newton-meters for pressure supply listed.

Figures for spring-torques and corresponding air-torques => see page 15

*Applicable only for XRP Upgrade Series. (Size ranging from Size 012 to 180)

XOMOX PNEUMATIC ACTUATOR TYPE XRP Size 025

Size 025

1. Design Features

Body Material:	Aluminium anodized acc. DIN 17611 (E6), calibrated	
End Caps:	Aluminium anodized end caps RAL 9005 (black), min. 60µm	
End Cap Version:	air end caps	
End Cap Screws:	material and strength acc. A2 70, DIN 912	
Weight:	3.5 kg	Double-acting: 3.7kg*; single-acting (12 springs): 4.5kg*
Air Connection:	G ¼"	
Shaft:	blow-out-proof, pressure-balanced, one piece	
Rotation:	clockwise => double acting and spring to close	
	anti-clockwise => double acting and spring to open	
Lubrication:	permanent greasing	
Piston Support:	PTFE guiding tapes	
Interfaces:		
Actuator/valve:	F05; flange acc. to DIN 5211 with female square acc. DIN 3337	
Solenoid valve:	VDI/VDE 3845 (Nemur)	
Limit switches, positioner:	VDI/VDE 3845 (Nemur)	
Position indicator:	red plastic indicator	
Production:	acc. DIN EN ISO 9001	

*Applicable only for XRP Upgrade Series. (Size ranging from Size 012 to 180)

2. Technical Data

Actuations principle:	Rack and Pinion	
Allowable Pressures / Max Static Pressure:	8bar	10 bar*
Working Pressure / Max Dynamic Pressure:	2 to 10 bar	
Tightness test:	1.1 x max. static pressure	
Cycle Time:	t _{open} < 1.0 sec., with solenoid valve Kv=1.2 [m³/h], at 6 bar air supply pressure	
	t _{close} < 1.0 sec., with solenoid valve Kv=1.2 [m³/h], at 6 bar air supply pressure	
Travel:	90° standard, other options upon request	
Air Consumption:	theoretical 0,5 N l/h at 1 bar per cycle 0° - 90°	
Life span:	1 Mio. cycles at 6 bar working pressure, 20°C ambient temperature acc. VDI/VDE 3844	
Ambient Temperature:	-20 to + 80° C (standard)	
Installation Position:	random	
Medium:	air and all non-aggressive gases	

Model	3 Bar	3.5 Bar	4 Bar	4.5 Bar	5 Bar	5.5 Bar	6 Bar	6.5 Bar	7 Bar	7.5 Bar	8 Bar
XS/XUS 025 D00B	72	83.5	95	108	119	132	143	156	167	180	191

NOTES:

All torque values are Newton-meters for pressure supply listed.

Figures for spring-torques and corresponding air-torques => see page 15

*Applicable only for XRP Upgrade Series. (Size ranging from Size 012 to 180)

XOMOX PNEUMATIC ACTUATOR TYPE XRP Size 050

Size 050

1. Design Features

Body Material:	Aluminium anodized acc. DIN 17611 (E6), calibrated
End Caps:	Aluminium anodized end caps RAL 9005 (black), min. 60µm
End Cap Version:	air end caps
End Cap Screws:	material and strength acc. A2 70, DIN 912
Weight:	Double-acting: 5.9 kg; single-acting (10 springs): 6.4 kg Double-acting: 6.2 kg*; single-acting (12 springs): 7.7 kg*
Air Connection:	G ¼"
Shaft:	blow-out-proof, pressure-balanced, one piece
Rotation:	clockwise => double acting and spring to close anti-clockwise => double acting and spring to open
Lubrication:	permanent greasing
Piston Support:	PTFE guiding tapes
Interfaces:	
Actuator/valve:	F07; flange acc. to DIN 5211 with female square acc. DIN 3337
Solenoid valve:	VDI/VDE 3845 (Namur)
Limit switches, positioner:	VDI/VDE 3845 (Namur)
Position indicator:	red plastic indicator
Production:	acc. DIN EN ISO 9001

*Applicable only for XRP Upgrade Series. (Size ranging from Size 012 to 180)

2. Technical Data

Actuations principle:	Rack and Pinion	
Allowable Pressures / Max Static Pressure:	8 bar	10 bar*
Working Pressure / Max Dynamic Pressure:	2 to 10 bar	
Tightness test:	1.1 x max. static pressure	
Cycle Time:	t _{open} < 0.8 sec., with solenoid valve Kv=1.2 [m³/h], at 6 bar air supply pressure	
	t _{close} < 0.8 sec., with solenoid valve Kv=1.2 [m³/h], at 6 bar air supply pressure	
Travel:	90° standard, other options upon request	
Air Consumption:	theoretical 0.8 N l/h at 1 bar per cycle 0° - 90°	
Life span:	1 Mio. cycles at 6 bar working pressure, 20°C ambient temperature acc. VDI/VDE 3844	
Ambient Temperature:	-20 to + 80° C (standard)	
Installation Position:	random	
Medium:	air and all non-aggressive gases	

Model	3 Bar	3.5 Bar	4 Bar	4.5 Bar	5 Bar	5.5 Bar	6 Bar	6.5 Bar	7 Bar	7.5 Bar	8 Bar
XS/XUS 050 D00B	133	155	177	199	222	244	266	288	310	332	364

NOTES:

All torque values are Newton-meters for pressure supply listed.

Figures for spring-torques and corresponding air-torques => see page 15

*Applicable only for XRP Upgrade Series. (Size ranging from Size 012 to 180)

XOMOX PNEUMATIC ACTUATOR TYPE XRP Size 090

Size 090

1. Design Features

Body Material:	Aluminium anodized acc. DIN 17611 (E6), calibrated
End Caps:	Aluminium anodized end caps RAL 9005 (black), min. 60µm
End Cap Version:	air end caps
End Cap Screws:	material and strength acc. A2 70, DIN 912
Weight:	Double-acting: 10.4 kg; single-acting (10 springs): 12.2 kg Double-acting: 10.8 kg*; single-acting (12 springs): 13.5 kg*
Air Connection:	G 1/4"
Shaft:	blow-out-proof, pressure-balanced, one piece
Rotation:	clockwise => double acting and spring to close
	anti-clockwise => double acting and spring to open
Lubrication:	permanent greasing
Piston Support:	PTFE guiding tapes
Interfaces:	
Actuator/valve:	F07/F10**, flange acc. to DIN 5211 with female square acc. DIN 3337
Solenoid valve:	VDI/VDE 3845 (Nimur)
Limit switches, positioner:	VDI/VDE 3845 (Nimur)
Position indicator:	red plastic indicator
Production:	acc. DIN EN ISO 9001

* Applicable only for XRP Upgrade Series. (Size ranging from Size 012 to 180)

** Other options upon request

2. Technical Data

Actuations principle:	Rack and Pinion	
Allowable Pressures / Max Static Pressure:	8 bar	10 bar*
Working Pressure / Max Dynamic Pressure:	2 to 10 bar	
Tightness test:	1.1 x max. static pressure	
Cycle Time:	t _{open} < 1.0 sec., with solenoid valve Kv=1.2 [m³/h], at 6 bar air supply pressure	
	t _{close} < 1.0 sec., with solenoid valve Kv=1.2 [m³/h], at 6 bar air supply pressure	
Travel:	90° standard, other options upon request	
Air Consumption:	theoretical 1 N l/h at 1 bar per cycle 0° - 90°	
Life span:	1 Mio. cycles at 6 bar working pressure, 20°C ambient temperature acc. VDI/VDE 3844	
Ambient Temperature:	-20 to + 80° C (standard)	
Installation Position:	random	
Medium:	air and all non-aggressive gases	

Model	3 Bar	3.5 Bar	4 Bar	4.5 Bar	5 Bar	5.5 Bar	6 Bar	6.5 Bar	7 Bar	7.5 Bar	8 Bar
XS/XUS 090 D00B	253	295	337	379	421	464	505	548	589	632	673

NOTES:

All torque values are Newton-meters for pressure supply listed.

Figures for spring-torques and corresponding air-torques => see page 15

*Applicable only for XRP Upgrade Series. (Size ranging from Size 012 to 180)

XOMOX PNEUMATIC ACTUATOR TYPE XRP Size 130

Size 130

1. Design Features

Body Material:	Aluminium anodized acc. DIN 17611 (E6), calibrated
End Caps:	Aluminium anodized end caps RAL 9005 (black), min. 60µm
End Cap Version:	air end caps
End Cap Screws:	material and strength acc. A2 70, DIN 912
Weight:	Double-acting: 15 kg; single-acting (10 springs): 18 kg Double-acting: 15.7 kg*; single-acting (12 springs): 19.6 kg*
Air Connection:	G ¼"
Shaft:	blow-out-proof, pressure-balanced, one piece
Rotation:	clockwise => double acting and spring to close anti-clockwise => double acting and spring to open
Lubrication:	permanent greasing
Piston Support:	PTFE guiding tapes
Interfaces:	
Actuator/valve:	F10/12; flange acc. to DIN 5211 with female square acc. DIN 3337
Solenoid valve:	VDI/VDE 3845 (Namur)
Limit switches, positioner:	VDI/VDE 3845 (Namur)
Position indicator:	red plastic indicator
Production:	acc. DIN EN ISO 9001

*Applicable only for XRP Upgrade Series. (Size ranging from Size 012 to 180)

2. Technical Data

Actuations principle:	Rack and Pinion	
Allowable Pressures / Max Static Pressure:	8bar	10 bar*
Working Pressure / Max Dynamic Pressure:	2 to 10 bar	
Tightness test:	1.1 x max. static pressure	
Cycle Time:	t _{open} < 1.0 sec., with solenoid valve Kv=1.2 [m³/ h], at 6 bar air supply pressure t _{close} < 1.0 sec., with solenoid valve Kv=1.2 [m³/ h], at 6 bar air supply pressure	
Travel:	90° standard, other options upon request	
Air Consumption:	theoretical 1.5 Nl/h at 1 bar per cycle 0° - 90°	
Life span:	1 Mio. cycles at 6 bar working pressure, 20°C ambient temperature acc. VDI/VDE 3844	
Ambient Temperature:	-20 to + 80° C (standard)	
Installation Position:	random	
Medium:	air and all non-aggressive gases	

Model	3 Bar	3.5 Bar	4 Bar	4.5 Bar	5 Bar	5.5 Bar	6 Bar	6.5 Bar	7 Bar	7.5 Bar	8 Bar
XS/XUS 130 D00B	385	449	513	577	642	706	770	834	898	962	1026

NOTES:

All torque values are Newton-meters for pressure supply listed.

Figures for spring-torques and corresponding air-torques => see page 15

*Applicable only for XRP Upgrade Series. (Size ranging from Size 012 to 180)

XOMOX PNEUMATIC ACTUATOR TYPE XRP Size 180

Size 180

1. Design Features

Body Material:	Aluminium anodized acc. DIN 17611 (E6), calibrated
End Caps:	Aluminium anodized end caps RAL 9005 (black), min. 60µm
End Cap Version:	air end caps
End Cap Screws:	material and strength acc. A2 70, DIN 912
Weight:	Double-acting: 18 kg; single-acting (10 springs): 22 kg Double-acting: 18.7 kg*; single-acting (12 springs): 23.7 kg*
Air Connection:	G ¼"
Shaft:	blow-out-proof, pressure-balanced, one piece
Rotation:	clockwise => double acting and spring to close anti-clockwise => double acting and spring to open
Lubrication:	permanent greasing
Piston Support:	PTFE guiding tapes
Interfaces:	
Actuator/valve:	F12; flange acc. to DIN 5211 with female square acc. DIN 3337
Solenoid valve:	VDI/VDE 3845 (Nimur)
Limit switches, positioner:	VDI/VDE 3845 (Nimur)
Position indicator:	red plastic indicator
Production:	acc. DIN EN ISO 9001

* Applicable only for XRP Upgrade Series. (Size ranging from Size 012 to 180)

**other options upon request

2. Technical Data

Actuations principle:	Rack and Pinion	
Allowable Pressures / Max Static Pressure:	8bar	10 bar*
Working Pressure / Max Dynamic Pressure:	2 to 10 bar	
Tightness test:	1.1 x max. static pressure	
Cycle Time:	t _{open} < 1.2 sec., with solenoid valve Kv=1.2 [m³/h], at 6 bar air supply pressure	
	t _{close} < 1.2sec., with solenoid valve Kv=1.2 [m³/h], at 6 bar air supply pressure	
Travel:	90° standard, other options upon request	
Air Consumption:	theoretical 2 N l/h at 1 bar per cycle 0° - 90°	
Life span:	1 Mio. cycles at 6 bar working pressure, 20°C ambient temperature acc. VDI/VDE 3844	
Ambient Temperature:	-20 to + 80° C (standard)	
Installation Position:	random	
Medium:	air and all non-aggressive gases	

Model	3 Bar	3.5 Bar	4 Bar	4.5 Bar	5 Bar	5.5 Bar	6 Bar	6.5 Bar	7 Bar	7.5 Bar	8 Bar
XS/XUS 180 D00B	506	590	675	759	843	928	1012	1096	1181	1265	1350

NOTES:

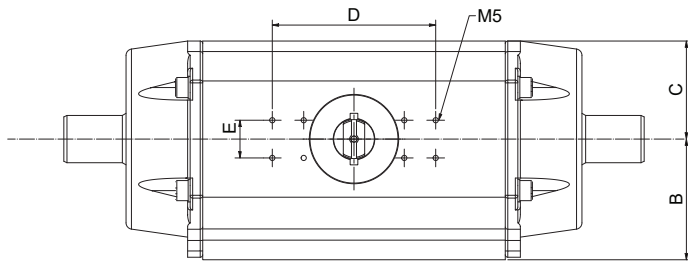
All torque values are Newton-meters for pressure supply listed.

Figures for spring-torques and corresponding air-torques => see page 15

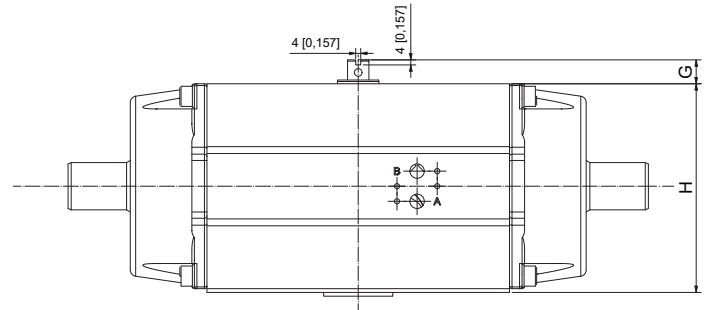
*Applicable only for XRP Upgrade Series. (Size ranging from Size 012 to 180)

XOMOX PNEUMATIC ACTUATOR TYPE XRP Size 012 to 180

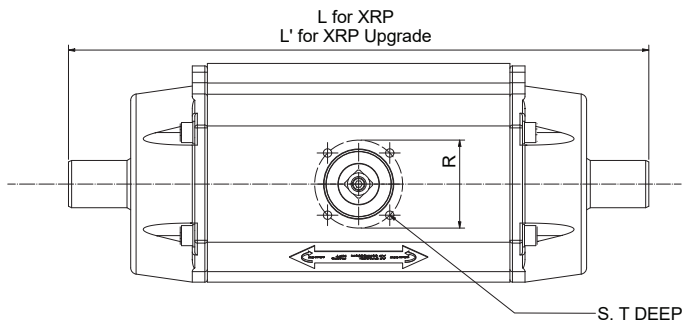
Sizes 012 to 180



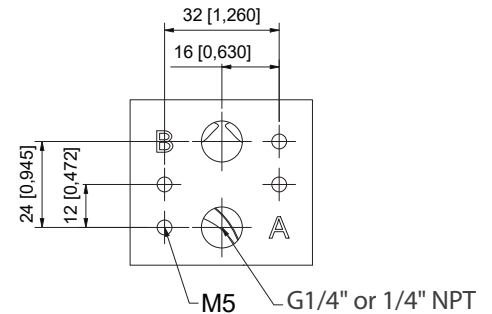
Top View



Side View



Bottom View



Solenoid Valve Interface

SIZE	L	L'	G	H	B	C	D	E	R	S	T	ISO	SQ
XS/XUS 012	10.43	11.95	0.79	3.58	2.66	1.61	3.15	1.18	1.97	M6	0.35	F05	0.55
	265	303.50	20	91	67.5	41	80	30	50		9		14
XS/XUS 025	11.42	12.76	0.79	4.76	3.23	2.17	3.15	1.18	1.97	M6	0.35	F05	0.55
	290	324.00	20	121	82	55	80	30	50		9		14
XS/XUS 050	14.37	15.22	0.79	5.75	3.70	2.64	3.15	1.18	2.76	M8	0.49	F07	0.67
	365	386.50	20	146	94	67	80	30	70		12.5		17
XS/XUS 90	17.72	18.11	1.18	6.54	4.29	3.07	5.12	1.18	4.02	M10	0.63	F10	0.87
	450	460.00	30	166	109	78	130	30	102		16		22
XS/XUS 130	20.67	21.06	1.18	7.56	4.53	3.54	5.12	1.18	4.92	M12	0.71	F12	1.06
	525	535.00	30	192	115	90	130	30	125		18		27
XS / XUS180	21.06	21.46	1.18	8.58	5.08	4.02	5.12	1.18	4.92	M12	0.71	F12	1.06
	535	545.00	30	218	129	102	130	30	125		18		27
	Inches												
	mm		NOTE: Dimensions are in inches and millimeters. Dimensions are nominal. For certified drawings contact factory.										

Actuator size 012 to 180 are available in both XRP & XRP Upgrade

L = For XRP & L' = For XRP Upgrade

XOMOX PNEUMATIC ACTUATOR TYPE XRP Size 012 to 180

Sizes 012 to 180

Torques (Nm)

Single-acting Actuators

	Spr. Qty	Spring		3 Bar		3.5 Bar		4 Bar		4.5 Bar		5 Bar		5.5 Bar		6 Bar		6.5 Bar		7 Bar		7.5 Bar		8 Bar	
		Start	End	Start	End	Start	End	Start	End	Start	End	Start	End	Start	End	Start	End	Start	End	Start	End	Start	End	Start	End
XS/XUS 012	2	8,3	4,1	32,9	28,7	39,1	34,9	45,2	41	51,4	47,3	57,5	53,3	63,7	59,6	69,9	65,7	76	71,9	82,2	78	88,4	84,3	94,5	90,3
	4	16,6	8,2	28,8	20,4	35	26,6	41,1	32,7	47,3	39,1	53,4	45	59,6	51,4	65,8	57,4	71,9	63,7	78,1	69,7	84,3	76,1	90,4	82
	6	24,9	12,3	24,7	12,1	30,9	18,3	37	24,4	43,2	30,9	49,3	36,7	55,5	43,2	61,7	49,1	67,8	55,5	74	61,4	80,2	67,9	86,3	73,7
	8	33,2	16,4	20,6	3,8	26,8	10	32,9	16,1	39,1	22,7	45,2	28,4	51,4	35	57,6	40,8	63,7	47,3	69,9	53,1	76,1	59,7	82,2	65,4
	10	41,5	20,5					28,8	7,8	35	14,5	41,1	20,1	47,3	26,8	53,5	32,5	59,6	39,1	65,8	44,8	72	51,5	78,1	57,1
	12	49,8	24,6									37	11,8	43,2	18,6	49,4	24,2	55,5	30,9	61,7	36,5	67,9	43,3	74	48,8
XS/XUS 025	2	16	8	64	56	76	68	87	79	100	92	111	103	124	116	135	127	148	140	159	151	172	164	183	175
	4	32	16	56	40	68	52	79	63	92	76	103	87	116	100	127	111	140	124	151	135	164	148	175	159
	6	48	24	48	24	60	36	71	47	84	60	95	71	108	84	119	95	132	108	143	119	156	132	167	143
	8	64	32	40	8	52	20	63	31	76	44	87	55	100	68	111	79	124	92	135	103	148	116	159	127
	10	80	40					55	15	68	28	79	39	92	52	103	63	116	76	127	87	140	100	151	111
	12	96	48									71	23	84	36	95	47	108	60	119	71	132	84	143	95
XS/XUS 050	2	30	15	118	103	140	125	162	147	185	170	207	192	230	215	251	236	274	259	295	280	318	303	349	334
	4	59	29	104	74	126	96	148	118	170	140	193	163	215	185	237	207	259	229	281	251	303	273	335	305
	6	89	44	89	44	111	66	133	88	155	111	178	133	200	156	222	177	244	200	266	221	288	244	320	275
	8	118	58	75	15	97	37	119	59	141	82	164	104	186	127	208	148	230	171	252	192	274	215	306	246
	10	148	73					104	29	126	52	149	74	171	97	193	118	215	141	237	162	259	185	291	216
	12	178	88									134	44	156	68	178	88	200	112	222	132	244	156	276	186
XS/XUS 090	2	56	27	226	197	268	239	310	281	352	325	394	365	437	410	478	449	521	494	562	533	605	578	646	617
	4	112	53	200	141	242	183	284	225	326	272	368	309	411	357	452	393	495	441	536	477	579	525	602	561
	6	168	80	173	85	215	127	257	169	299	218	341	253	384	303	425	337	468	387	509	421	552	471	593	505
	8	224	107	146	29	188	71	230	113	272	165	314	197	357	250	398	281	441	334	482	365	525	418	566	449
	10	280	134					203	57	245	111	287	141	330	196	371	225	414	280	455	309	498	364	539	393
	12	336	160									261	85	303	142	345	169	387	226	429	253	471	310	513	337
XS/XUS 130	2	84	41	344	301	408	365	472	429	537	496	601	558	666	625	729	686	794	753	857	814	922	881	985	942
	4	169	81	304	216	368	280	432	344	496	415	561	473	625	544	689	601	753	672	817	729	881	800	945	857
	6	253	122	263	132	327	196	391	260	455	333	520	389	584	462	648	517	712	590	776	645	840	718	904	773
	8	337	162	223	48	287	112	351	176	415	252	480	305	544	381	608	433	672	509	736	561	800	637	864	689
	10	422	203					310	91	374	171	439	220	503	300	567	348	631	428	695	476	759	556	823	604
	12	506	244									398	136	463	219	526	264	591	347	654	392	719	475	782	520
XS/XUS 180	02	111	53	453	395	538	480	622	564	706	652	790	732	875	821	959	901	1.043	989	1.128	1.070	1.212	1.158	1.297	1.239
	04	222	107	399	284	484	369	568	453	652	545	736	621	821	714	905	790	989	882	1.074	959	1.158	1.051	1.243	1.128
	06	332	160	346	174	431	259	515	343	599	439	683	511	768	608	852	680	936	776	1.021	849	1.105	945	1.190	1.018
	08	443	213	293	63	378	148	462	232	546	332	630	400	715	501	799	569	883	669	968	738	1.052	838	1.137	907
	10	554	267					408	121	492	225	576	289	661	394	745	458	829	562	914	627	998	731	1.083	796
	12	665	320									523	178	608	287	692	347	776	455	861	516	945	624	1.030	685

NOTES:

- All torque values are Newton-meters for pressure supply listed.
- Torque values are same for both Spring Fail Clockwise, FCW (XRP style S) & Counterclockwise, FCCW, (XRP style A).
- Actuator size 012 to 180 are available in both XRP & XRP Upgrade

XOMOX PNEUMATIC ACTUATOR TYPE XRP Size 205

Size 205

1. Design Features

Body Material:	Aluminium anodized acc. DIN 17611 (E6), calibrated
End Caps:	Aluminium anodized end caps RAL 9005 (black), min. 60µm
End Cap Version:	air end caps
End Cap Screws:	material and strength acc. A2 70, DIN 912
Weight:	Double-acting: 30 kg; single-acting (10 springs): 47.4 kg
Air Connection:	G 1/4"
Shaft:	blow-out-proof, pressure-balanced, one piece
Rotation:	clockwise => double acting and spring to close anti-clockwise => double acting and spring to open
Lubrication:	permanent greasing
Piston Support:	PTFE guiding tapes
Interfaces:	
Actuator/valve:	F12/F14*; flange acc. to DIN 5211 with female square acc. DIN 3337
Solenoid valve:	VDI/VDE 3845 (Namur)
Limit switches, positioner:	VDI/VDE 3845 (Namur)
Position indicator:	red plastic indicator
Production:	acc. DIN EN ISO 9001

* other options upon request

2. Technical Data

Actuations principle:	Rack and Pinion
Allowable Pressures / Max Static Pressure:	8 bar
Working Pressure / Max Dynamic Pressure:	2 to 8 bar
Tightness test:	1.1 x max. nominal pressure
Cycle Time:	t _{open} < 1.2 sec., with solenoid valve Kv=1.2 [m³/h], at 6 bar air supply pressure t _{close} < 1.2 sec., with solenoid valve Kv=1.2 [m³/h], at 6 bar air supply pressure
Travel:	90° standard, other options upon request
Air Consumption:	theoretical 3.1 N l/h at 1 bar per cycle 0° - 90°
Life span:	1 Mio. cycles at 6 bar working pressure, 20°C ambient temperature acc. VDI/VDE 3844
Ambient Temperature:	-20 to + 80° C (standard)
Installation Position:	random
Medium:	air and all non-aggressive gases

Model	3 Bar	3.5 Bar	4 Bar	4.5 Bar	5 Bar	5.5 Bar	6 Bar	6.5 Bar	7 Bar	7.5 Bar	8 Bar
XS 205 D00A	758	884.5	1011	1137	1264	1390	1517	1643	1770	1896	2023

NOTES:

All torque values are Newton-meters for pressure supply listed.

Figures for spring-torques and corresponding air-torques => see page 22

XOMOX PNEUMATIC ACTUATOR TYPE XRP Size 380

Size 380

1. Design Features

Body Material:	Aluminium anodized acc. DIN 17611 (E6), calibrated
End Caps:	Aluminium anodized end caps RAL 9005 (black), min. 60µm
End Cap Version:	air end caps
End Cap Screws:	material and strength acc. A2 70, DIN 912
Weight:	Double-acting: 36 kg; single-acting (10 springs): 60.4 kg
Air Connection:	G 1/4"
Shaft:	blow-out-proof, pressure-balanced, one piece
Rotation:	clockwise => double acting and spring to close anti-clockwise => double acting and spring to open
Lubrication:	permanent greasing
Piston Support:	PTFE guiding tapes
Interfaces:	
Actuator/valve:	F12/F14*; flange acc. to DIN 5211 with female square acc. DIN 3337
Solenoid valve:	VDI/VDE 3845 (Namur)
Limit switches, positioner:	VDI/VDE 3845 (Namur)
Position indicator:	red plastic indicator
Production:	acc. DIN EN ISO 9001

* other options upon request

2. Technical Data

Actuations principle:	Rack and Pinion
Allowable Pressures / Max Static Pressure:	8 bar
Working Pressure / Max Dynamic Pressure:	2 to 8 bar
Tightness test:	1.1 x max. nominal pressure
Cycle Time:	t _{open} < 2.1 sec., with solenoid valve Kv=1.2 [m³/h], at 6 bar air supply pressure t _{close} < 2.1 sec., with solenoid valve Kv=1.2 [m³/h], at 6 bar air supply pressure
Travel:	90° standard, other options upon request
Air Consumption:	theoretical 4.4 N l/h at 1 bar per cycle 0° - 90°
Life span:	1 Mio. cycles at 6 bar working pressure, 20°C ambient temperature acc. VDI/VDE 3844
Ambient Temperature:	-20 to + 80° C (standard)
Installation Position:	random
Medium:	air and all non-aggressive gases

Model	3 Bar	3.5 Bar	4 Bar	4.5 Bar	5 Bar	5.5 Bar	6 Bar	6.5 Bar	7 Bar	7.5 Bar	8 Bar
XS 380 D00A	1138	1327.5	1517	1707	1896	2086	2275	2466	2654	2845	3033

NOTES:

All torque values are Newton-meters for pressure supply listed.

Figures for spring-torques and corresponding air-torques => see page 22

XOMOX PNEUMATIC ACTUATOR TYPE XRP Size 630

Size 630

1. Design Features

Body Material:	Aluminium anodized acc. DIN 17611 (E6), calibrated
End Caps:	Aluminium anodized end caps RAL 9005 (black), min. 60µm
End Cap Version:	air end caps
End Cap Screws:	material and strength acc. A2 70, DIN 912
Weight:	Double-acting: 82 kg; single-acting (10 springs): 97 kg
Air Connection:	G ¼"
Shaft:	blow-out-proof, pressure-balanced, one piece
Rotation:	clockwise => double acting and spring to close anti-clockwise => double acting and spring to open
Lubrication:	permanent greasing
Piston Support:	PTFE guiding tapes
Interfaces:	
Actuator/valve:	F14/F16*; flange acc. to DIN 5211 with female square acc. DIN 3337
Solenoid valve:	VDI/VDE 3845 (Nimur)
Limit switches, positioner:	VDI/VDE 3845 (Nimur)
Position indicator:	red plastic indicator
Production:	acc. DIN EN ISO 9001

* other options upon request

2. Technical Data

Actuations principle:	Rack and Pinion
Allowable Pressures / Max Static Pressure:	8 bar
Working Pressure / Max Dynamic Pressure:	2 to 8 bar
Tightness test:	1.1 x max. nominal pressure
Cycle Time:	t _{open} < 3.2 sec., with solenoid valve Kv=1.2 [m³/h], at 6 bar air supply pressure t _{close} < 3.2 sec., with solenoid valve Kv=1.2 [m³/h], at 6 bar air supply pressure
Travel:	90° standard, other options upon request
Air Consumption:	theoretical 8.5 N l/h at 1 bar per cycle 0° - 90°
Life span:	1 Mio. cycles at 6 bar working pressure, 20°C ambient temperature acc. VDI/VDE 3844
Ambient Temperature:	-20 to + 80° C (standard)
Installation Position:	random
Medium:	air and all non-aggressive gases

Model	3 Bar	3.5 Bar	4 Bar	4.5 Bar	5 Bar	5.5 Bar	6 Bar	6.5 Bar	7 Bar	7.5 Bar	8 Bar
XS 630 D00A	1896	2212	2528	2844	3159	3476	3791	4108	4423	4740	5055

NOTES:

All torque values are Newton-meters for pressure supply listed.

Figures for spring-torques and corresponding air-torques => see page 22

XOMOX PNEUMATIC ACTUATOR TYPE XRP Size 960

Size 960

1. Design Features

Body Material:	Aluminium anodized acc. DIN 17611 (E6), calibrated
End Caps:	Aluminium anodized end caps RAL 9005 (black), min. 60µm
End Cap Version:	air end caps
End Cap Screws:	material and strength acc. A2 70, DIN 912
Weight:	Double-acting: 124 kg; single-acting (10 springs): 135 kg
Air Connection:	G ¼"
Shaft:	blow-out-proof, pressure-balanced, one piece
Rotation:	clockwise => double acting and spring to close
	anti-clockwise => double acting and spring to open
Lubrication:	permanent greasing
Piston Support:	PTFE guiding tapes
Interfaces:	
Actuator/valve:	F16/F25*; flange acc. to DIN 5211 with female square acc. DIN 3337
Solenoid valve:	VDI/VDE 3845 (Namur)
Limit switches, positioner:	VDI/VDE 3845 (Namur)
Position indicator:	red plastic indicator
Production:	acc. DIN EN ISO 9001

* other options upon request

2. Technical Data

Actuations principle:	Rack and Pinion
Allowable Pressures / Max Static Pressure:	8 bar
Working Pressure / Max Dynamic Pressure:	2 to 8 bar
Tightness test:	1.1 x max. nominal pressure
Cycle Time:	t _{open} < 4.0 sec., with solenoid valve Kv=1.2 [m³/h], at 6 bar air supply pressure
	t _{close} < 4.0 sec., with solenoid valve Kv=1.2 [m³/h], at 6 bar air supply pressure
Travel:	90° standard, other options upon request
Air Consumption:	theoretical 11.5 N l/h at 1 bar per cycle 0° - 90°
Life span:	1 Mio. cycles at 6 bar working pressure, 20°C ambient temperature acc. VDI/VDE 3844
Ambient Temperature:	-20 to + 80° C (standard)
Installation Position:	random
Medium:	air and all non-aggressive gases

Model	3 Bar	3.5 Bar	4 Bar	4.5 Bar	5 Bar	5.5 Bar	6 Bar	6.5 Bar	7 Bar	7.5 Bar	8 Bar
XS 960 D00A	2879	3359	3839	4319	4799	5278	5758	6238	6718	7198	7677

NOTES:

All torque values are Newton-meters for pressure supply listed.

Figures for spring-torques and corresponding air-torques => see page 22

XOMOX PNEUMATIC ACTUATOR TYPE XRP Size H15

Size H15

1. Design Features

Body Material:	Aluminium anodized acc. DIN 17611 (E6), calibrated
End Caps:	Aluminium anodized end caps RAL 9005 (black), min. 60µm
End Cap Version:	air end caps
End Cap Screws:	material and strength acc. A2 70, DIN 912
Weight:	Double-acting: 151 kg; single-acting (10 springs): 167 kg
Air Connection:	G ¼"
Shaft:	blow-out-proof, pressure-balanced, one piece
Rotation:	clockwise => double acting and spring to close anti-clockwise => double acting and spring to open
Lubrication:	permanent greasing
Piston Support:	PTFE guiding tapes
Interfaces:	
Actuator/valve:	F25/F30*; flange acc. to DIN 5211 with female square acc. DIN 3337
Solenoid valve:	VDI/VDE 3845 (Namur)
Limit switches, positioner:	VDI/VDE 3845 (Namur)
Position indicator:	red plastic indicator
Production:	acc. DIN EN ISO 9001

* other options upon request

2. Technical Data

Actuations principle:	Rack and Pinion
Allowable pressures:	8 bar
Working pressure:	2 to 8 bar
Tightness test:	1.1 x max. nominal pressure
Cycle Time:	t _{open} < 6.5 sec., with solenoid valve Kv=1.2 [m³/h], at 6 bar air supply pressure t _{close} < 6.5 sec., with solenoid valve Kv=1.2 [m³/h], at 6 bar air supply pressure
Travel:	90° standard, other options upon request
Air Consumption:	theoretical 16 N l/h at 1 bar per cycle 0° - 90°
Life span:	1 Mio. cycles at 6 bar working pressure, 20°C ambient temperature acc. VDI/VDE 3844
Ambient Temperature:	-20 to + 80° C (standard)
Installation Position:	random
Medium:	air and all non-aggressive gases

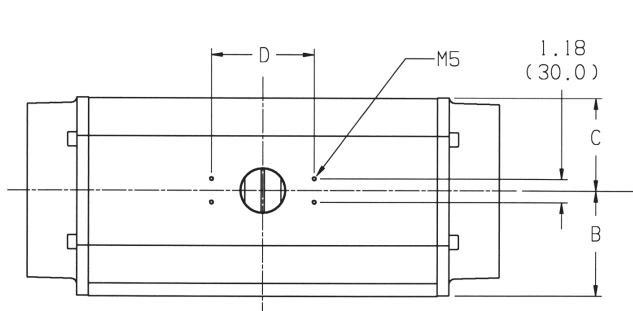
Model	3 Bar	3.5 Bar	4 Bar	4.5 Bar	5 Bar	5.5 Bar	6 Bar	6.5 Bar	7 Bar	7.5 Bar	8 Bar
XS H15 D00A	4407	5141.5	5876	6611	7345	8080	8814	9549	10283	11018	11752

NOTES:

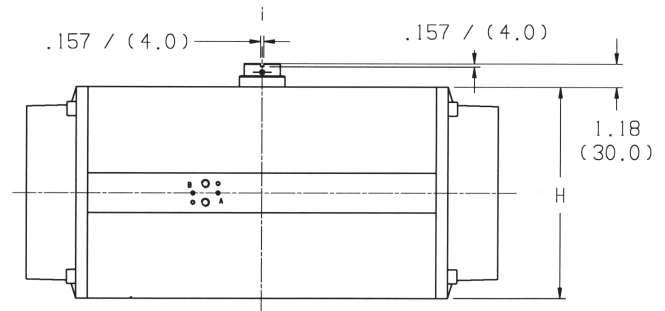
All torque values are Newton-meters for pressure supply listed.

Figures for spring-torques and corresponding air-torques => see page 22

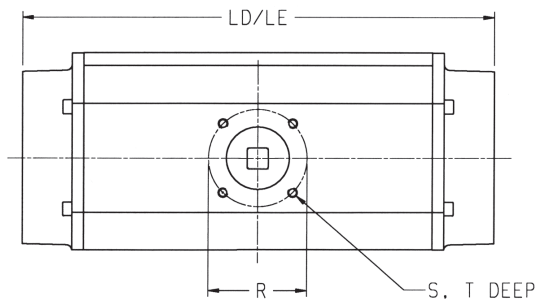
XOMOX PNEUMATIC ACTUATOR TYPE XRP Size 205 to H15



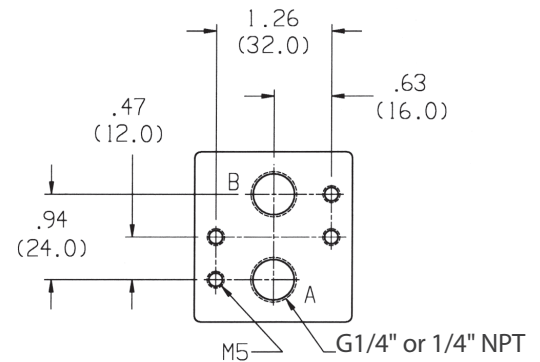
Top View



Side View



Bottom View



Solenoid Valve Interface

SIZE	LD	LE	H	B	C	D	R	S	T	ISO	SQ
XS205	15.24	19.13	10.71	5.91	4.69	5.12	5.51	M16	0.98	F14	1.42
	387	486	272	150	119	130	140		25		36
XS380	20.08	23.70	10.71	5.91	4.69	5.12	5.51	M16	0.98	F14	1.42
	510	602	272	150	119	130	140		25		36
XS630	22.09	29.17	13.54	7.36	6.77	5.12	6.50	M20	1.26	F16	1.81
	561	741	344	187	172	130	165		32		46
XS960	22.05	29.69	16.61	8.90	8.31	5.91	6.50	M20	0.35	F16*	1.81
	560	754	422	226	211	150	165		32		46
XSH15	26.34	34.61	17.72	9.45	8.86	5.91	ISO F25 Only				2.17
	669	879	450	240	225	150	See XS960/XSH15 View				55
	Inches	LD = Length of Double-acting Actuator LE = Length of Spring Return Actuator *This Model also has ISO F25 Mounting Pattern									
	mm	NOTE: Dimensions are in inches and millimeters. Dimensions are nominal. For certified drawings contact factory.									

XOMOX PNEUMATIC ACTUATOR TYPE XRP SIZE 205 to H15

Sizes 205 to H15

Torques (Nm)

Single-acting Actuators

	Spr. Qty	Spring		3 Bar		3.5 Bar		4 Bar		4.5 Bar		5 Bar		5.5 Bar		6 Bar		6.5 Bar		7 Bar		7.5 Bar		8 Bar	
		Start	End	Start	End	Start	End	Start	End	Start	End	Start	End	Start	End	Start	End	Start	End	Start	End	Start	End	Start	End
XS 205	02	169	84	674	589	801	716	927	842	1.053	969	1.180	1.095	1.306	1.222	1.433	1.348	1.559	1.475	1.686	1.601	1.812	1.728	1.939	1.854
	04	337	169	589	421	716	548	842	674	969	800	1.095	927	1.222	1.053	1.348	1.180	1.475	1.306	1.601	1.433	1.728	1.559	1.854	1.686
	06	506	253	505	252	632	379	758	505	885	632	1.011	758	1.138	885	1.264	1.011	1.391	1.138	1.517	1.264	1.644	1.391	1.770	1.517
	08	674	337	421	84	548	211	674	337	800	463	927	590	1.053	716	1.180	843	1.306	969	1.433	1.096	1.559	1.222	1.686	1.349
	10	843	421					590	168	716	295	843	421	969	548	1.096	674	1.222	801	1.349	927	1.475	1.054	1.602	1.180
	12	1.011	506									758	253	885	380	1.011	506	1.138	633	1.264	759	1.391	886	1.517	1.012
XS 380	02	253	126	1.012	885	1.202	1.075	1.391	1.264	1.581	1.454	1.770	1.643	1.960	1.833	2.149	2.022	2.340	2.213	2.528	2.401	2.719	2.592	2.907	2.780
	04	506	253	885	632	1.075	822	1.264	1.011	1.454	1.201	1.643	1.390	1.833	1.580	2.022	1.769	2.213	1.960	2.401	2.148	2.592	2.339	2.780	2.527
	06	756	379	759	382	949	572	1.138	761	1.328	949	1.517	1.140	1.707	1.328	1.896	1.519	2.087	1.708	2.275	1.898	2.466	2.087	2.654	2.277
	08	1.011	506	632	127	822	317	1.011	506	1.202	696	1.390	885	1.581	1.075	1.796	1.264	1.961	1.455	2.148	1.643	2.340	1.834	2.527	2.022
	10	1.264	632					885	253	1.075	443	1.264	632	1.454	822	1.643	1.011	1.834	1.202	2.022	1.390	2.213	1.581	2.401	1.769
	12	1.517	758									1.138	379	1.328	569	1.517	758	1.708	949	1.896	1.137	2.087	1.328	2.275	1.516
XS 630	02	421	211	1.685	1.475	2.001	1.791	2.317	2.107	2.634	2.423	2.948	2.738	3.266	3.055	3.580	3.370	3.898	3.687	4.212	4.002	4.530	4.319	4.844	4.634
	04	843	421	1.475	1.053	1.791	1.369	2.107	1.685	2.423	2.002	2.738	2.316	3.055	2.634	3.370	2.948	3.687	3.266	4.002	3.580	4.319	3.898	4.634	4.212
	06	1.264	632	1.264	632	1.580	948	1.896	1.264	2.212	1.580	2.527	1.895	2.844	2.212	3.159	2.527	3.476	2.844	3.791	3.159	4.108	3.476	4.423	3.791
	08	1.685	843	1.053	211	1.369	527	1.685	843	2.002	1.159	2.316	1.474	2.634	1.791	2.948	2.106	3.266	2.423	3.580	2.738	3.898	3.055	4.212	3.370
	10	2.107	1.053					1.475	421	1.791	738	2.106	1.052	2.423	1.370	2.738	1.684	3.055	2.002	3.370	2.316	3.687	2.634	4.002	2.948
	12	2.528	1.264									1.895	631	2.213	949	2.527	1.263	2.845	1.581	3.159	1.895	3.477	2.213	3.791	2.527
XS 960	02	632	316	2.563	2.247	3.043	2.727	3.523	3.207	4.003	3.687	4.482	4.166	4.962	4.646	5.442	5.126	5.922	5.606	6.402	6.086	6.882	6.566	7.361	7.045
	04	1.264	632	2.247	1.615	2.727	2.095	3.207	2.575	3.687	3.055	4.166	3.534	4.646	4.014	5.126	4.494	5.606	4.974	6.086	5.454	6.566	5.934	7.045	6.413
	06	1.896	948	1.932	984	2.412	1.464	2.892	1.944	3.372	2.424	3.851	2.903	4.331	3.383	4.811	3.863	5.291	4.343	5.771	4.823	6.251	5.303	6.730	5.782
	08	2.528	1.264	1.616	352	2.096	832	2.576	1.312	3.056	1.792	3.535	2.271	4.015	2.751	4.495	3.231	4.975	3.711	5.455	4.191	5.935	4.671	6.414	5.150
	10	3.160	1.580					2.260	680	2.740	1.160	3.219	1.639	3.699	2.119	4.179	2.599	4.659	3.079	5.139	3.559	5.619	4.039	6.098	4.518
	12	3.792	1.896									2.903	1.007	3.383	1.487	3.863	1.967	4.343	2.447	4.823	2.927	5.303	3.407	5.782	3.886
XS H15	02	979	489	3.918	3.428	4.653	4.163	5.387	4.897	6.122	5.632	6.856	6.366	7.591	7.101	8.325	7.835	9.060	8.570	9.794	9.304	10.529	10.039	11.263	10.773
	04	1.958	979	3.428	2.449	4.163	3.184	4.897	3.918	5.632	4.653	6.366	5.387	7.101	6.122	7.835	6.856	8.570	7.591	9.304	8.325	10.039	9.060	10.773	9.794
	06	2.937	1.468	2.939	1.470	3.674	2.205	4.408	2.939	5.143	3.675	5.877	4.408	6.612	5.144	7.346	5.877	8.081	6.613	8.815	7.346	9.550	8.082	10.284	8.815
	08	3.616	1.958	2.449	791	3.184	1.526	3.918	2.260	4.654	2.696	5.387	3.729	6.123	4.165	6.856	5.198	7.592	5.634	8.325	6.667	9.061	7.103	9.794	8.136
	10	4.894	2.447					3.429	982	4.164	1.717	4.898	2.451	5.633	3.186	6.367	3.920	7.102	4.655	7.836	5.389	8.571	6.124	9.305	6.858
	12	5.873	2.937									4.408	1.472	5.144	2.207	5.877	2.941	6.613	3.676	7.346	4.410	8.082	5.145	8.815	5.879

NOTES:

- All torque values are Newton-meters for pressure supply listed.
- Torque values are same for both Spring Fail Clockwise, FCW (XRP style S) & Counterclockwise, FCCW, (XRP style A).

XOMOX PNEUMATIC ACTUATOR TYPE XRP How to Specify

How to specify PART NUMBER

STOCKED ACTUATOR CONFIGURATIONS

PART NUMBER

Utilize 9 digits as a minimum

X S 180 S 08 B

NON-STANDARD MODIFICATIONS

OPTIONS

(Use only if non-standard required)

0 0 00 0

Option Code 4

Option Code 3

Option Code 2

Option Code 1

Travel Stops

Springs

Type / Rotation

Size

Solenoid / Valve Interface

Brand

Brand	
Xomox	X
XOMOX XRP Upgrade*	XU*
*Only Available in Sizes 012-180	

Solenoid / Valve Interface	
Imperial - 1/4" NPT Air Connection (VDI/VDE 3845 NAMUR)	S
Standard ISO 5211 Interface square (0° offset)	
Metric - G 1/4" BSP Air Connection (VDI/VDE 3845 NAMUR)	D
Standard ISO 5211 / DIN 3337 interface Diamond (45° offset)	

Sizes	
Model Sizes: 002, 006, 012, 025, 050, 090, 30, 180, 205, 380, 630, 960, H15	XXX

Travel Stops	
No limit or travel stops (excepted 001-006 with limit stop to open as standard)	A
Dual Travel Stops with -4/+4 degrees of travel adjustment (Sizes 012 to 180)	B
Optional external Dual Travel Stops (Sizes 205 to H15)	C

Type / Rotation	
Double Acting (No Springs)	D
Spring Return, Spring to Close (FCW)	S
Spring Return, Spring to Open (FCCW)	A

# Springs	
Double Acting, No Springs	OO
Spring Return- 01 through 18 (even combinations standard, odd combinations optional)	XX

Option Code 1 - Temperature	
Standard -20° to 80°C (-4° to 176°F)	0
Low Temperature -40° to 80°C (-40° to 176°F)	1
High Temperature -20° to 140°C (-4° to 284°F)	2

Option Code 2 - Finish	
Anodized Body & Polyurethane finish (RAL 5002) End Caps	0
Consult Factory for Other Options	X

Option Code 3 - Shaft / Springs	
Standard Anodized Aluminum Pinion	0
Consult Factory for Other Options	X

Option Code 4 - Mounting Configuration	
Standard ISO F Pattern for Each Body Size	OO
Consult Factory for Optional Mounting Configurations	X

Example: - In order to select the XRP Upgraded-EU version - Series 6 -Size 090, Single acting fail close spring return actuator, with 12 springs, Standard Temperature, finish & ISO Mounting

Code will Be - XUD090S12B00000

Other Design Options:

- Limit stops On/Off
- Overtravel $\pm 4^\circ$
- Hand emergency operation

Due to constant product improvements, all technical details are correct at the time of issue, but may be subject to change without prior notice.

The logo consists of the word "CRANE" in a bold, sans-serif font, enclosed within a rectangular border. A small registered trademark symbol (®) is located at the bottom right of the word.

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