



PNEUMATIC ACTUATOR FOR BALL AND BUTTERFLY VALVES

ATTUATORE PNEUMATICO PER VALVOLE A SFERA E A FARFALLA



Rack and pinion type
Tipo a pignone e cremagliera

DA SA

Double Action or Single Action (spring return)
Doppio Effetto o Singolo Effetto (ritorno a molla)



Body in anodized aluminium alloy or stainless steel
Corpo in lega di alluminio estruso anodizzato o acciaio inox



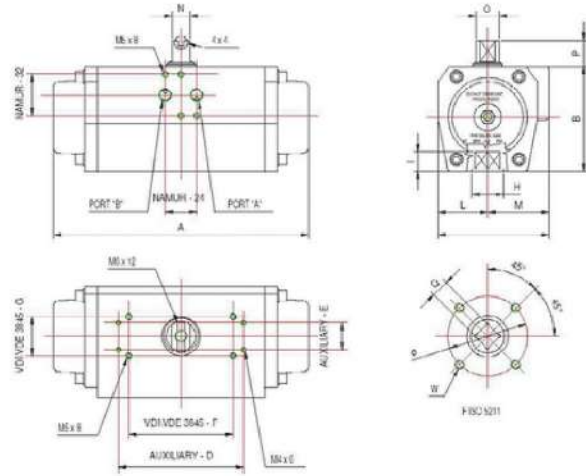
90°, 120° or 180° rotation
Rotazione a 90°, 120° o 180°



Versions for ultra-low, low, medium or high temperatures
Versioni per temperature bassissime, basse, medie o alte

Size / Misure [mm]	32	50	63	75	85	100	115	125	145	160	180	200	240	270	330	420
Rotation / Rotazione	90° (standard version)															
Function / Versioni	Double Action DA Doppio effetto DE								Spring return Single Acting Singolo Effetto con ritorno a molla							
Adjusting / Registri	Exterior / Esterni +/-5°															
Power supply / Alimentazione	Dry o lubricated filtered compressed air Aria compressa filtrate, secca o lubrificata															
Pilot pressure / Pressione di lavoro	Min 1 bar – Max 8 bar															
Assembly / Assemblaggio	Female lower shaft key (ISO5211-DIN3337 standards) for in-line 45° assembly with squared-key shaft valves Pignone inferiore femmina (norme ISO5211-DIN3337) per montaggio in linea e a 45° su valvole con albero a chiave quadra															
Accessories mounting / Montaggio accessori	Top drilling and upper shaft end according to Namur standards Foratura superiore ed estremità albero secondo norma Namur															
Ambient temperature / Temperatura ambiente	-20° / +80° standard				-60°/+80° ultra-low / ultra-basse				-40° / +80° low / basse				-20° / +150° high / alte			
Covers / Testate	Die-cast ASTM B179 aluminum alloy with polyester powder finish Pressofuse in lega di alluminio ASTM B179 verniciate con polvere poliestere								Die-cast ASTM B179 aluminum alloy with chemical nickel finish Pressofuse in lega di alluminio ASTM B179 verniciate con nichel chimico							
Pistons / Pistoni	Die-cast in anodized aluminum alloy ASTM B 179 Pressofusi in lega di alluminio ASTM B179, anodizzati															
Pinion / Pignone	A2 Stainless steel Acciaio inox A2								Nickel-plated steel Acciaio nichelato							
Piston guides / Guide	Acetalic resin +20% Ptfе / Resina acetica +20% Ptfе															
Screws / Viteria	Stainless steel Aisi 304 / Acciaio inox Aisi 304															
Upon request / Su richiesta																
Top visual indicator / Indicatore visivo superiore																
Rotation / Rotazione 120° or/o 180°																

PNEUMATIC ACTUATORS / ATTUATORI PNEUMATICI



Mosfe	32	42	50	63	75	85	100	115	125	145	160	180	200	240	270	330	420		
A	117	160	138	155.5	210	228	280.5	310	362	390	462	474	575	604	685	850	940		
B	45	57	67	83	100	110	125	142	155	175	196	220	240	298	332	414	542		
C	48	60.5	75	86	94	104	120	134	141	163	176	196	220	300	352	400	528		
Auxiliary Dx E				105x22				139x22											
VDI/VDE 3845 FxG	50x25	80x30			80x30				130x30								200x50		
L	22.5	27	33.5	38	42.5	49	55	63.5	69.5	80	88	98	110	150	166	190	234		
M	25.5	33.5	41.5	48	51.5	55	65	70.5	71.5	83		98	110	150	166	210	294		
Port A Port B DIN 259	1/8" gas - npt			1/4" gas - npt								1/2" gas - npt							
NxO	8x12			14x18				27x36				32x42		32x40	55x80				
P	20							30			50							80	
Qxl	9x10	9x10 11x13	9x10 11x13	9x10 11x13 14x16	11x13 14x16 17x20	14x161 7x20	17x20 22x25	17x20 22x25	17x20 22x25 27x30	22x25 27x30	22x25 27x30	27x30 36x39	27x30 36x39	36x39 46x50	36x39 46x50	46x50 55x60	55x60 75x80		
F ISO 5211	F03 F04	F03/05 F04	F03 F04 F03/05 F05	F03/05 F04 F05/07	F04 F05/07	F05/07	F07/10 F5/7/10	F07/10 F12	F10/12	F10/12	F10/12 F14	F10/12 F14	F14 F16	F14 F16	F16 F25	F25 F30			
Mosfe	32		42		50		63		75		85		100		115		125		
	DA	SR	DA	SR	DA	SR	DA	SR	DA	SR	DA	SR	DA	SR	DA	SR	DA	SR	
Volume	Lt.	0.1		0.2		0.2		0.5		0.6		1		1.8		2.8		3.7	
Open Aperto	Sec.	0.5		0.5	0.5	0.6	0.6	0.6	0.7	0.6	0.7	0.6	0.7	0.8	1.1	0.9	1.2	1.1	1.3
Closed Chiuso	Sec.	0.5		0.5	0.5	0.6	0.6	0.7	0.9	0.7	1.0	0.9	1.3	0.9	1.3	1.1	1.6	1.1	2.1
Weight Peso	Kg	0.42		0.87	0.93	1.07	1.2	1.6	1.8	2.9	3.4	4.2	4.8	5.8	6.8	9.2	10.3	11.9	14.2
Mosfe	145		160		180		200		240		270		330		420				
	DA	SR	DA	SR	DA	SR	DA	SR	DA	SR	DA	SR	DA	SR	DA	SR			
Volume	Lt.	4.9		8.0		11.1		14.2		19.2		22.2		31.4		131			
Open Aperto	Sec.	1.1	1.4	1.3	2.1	2.3	3.2	3.6	4.6	4.1	5.3	4.5	6.0	5.0	6.5	8.0	10.0		
Closed Chiuso	Sec.	1.1	2.1	1.6	2.6	2.6	4.6	4.5	6.1	4.5	5.5	4.5	6.0	5.0	6.5	9.0	11.0		
Weight Peso	Kg	15.5	19.0	20.5	24.9	30.5	1.2	43.0	1.8	60.0	74.4	94.0	113.0	105.0	144.6	210.0	279.0		

PNEUMATIC ACTUATORS / ATTUATORI PNEUMATICI

DOUBLE ACTING ACTUATOR TORQUE / TORSIONI ATTUATORI A DOPPIO EFFETTO [Nm]											
Tipo/ Type	AIR SUPPLY / ALIMENTAZIONE ARIA [bar]										
	1	2	3	4	5	6	7	8	9	10	
Mosfe 032	-	-	-	5.0	6.3	7.6	8.8	10.0	11.4	12.6	
Mosfe 042	-	-	6.5	8.7	10.9	13.0	15.2	17.3	19.5	21.7	
Mosfe 050	3.0	6.1	9.2	12.3	15.4	18.5	21.5	24.6	27.7	30.8	
Mosfe 063	5.5	11.0	16.5	22.0	27.5	33.0	38.5	44.0	49.5	55.0	
Mosfe 075	11.7	23.4	35.1	46.8	58.5	70.2	81.9	93.6	105.3	117.0	
Mosfe 085	17.8	36.6	53.4	71.2	89.0	106.9	124.7	142.4	160.3	178.1	
Mosfe 100	27.7	55.4	83.2	110.9	138.6	166.4	194.1	221.8	249.5	277.3	
Mosfe 115	45.7	91.5	137.2	183.0	228.7	274.5	320.2	366.0	411.7	457.5	
Mosfe 125	60.1	120.3	180.5	240.7	300.9	361.1	421.2	481.4	541.6	601.8	
Mosfe 145	86.7	173.4	260.1	346.8	433.5	520.2	606.9	693.6	780.3	867.0	
Mosfe 160	118.3	236.7	355.0	473.4	591.7	710.1	828.4	946.8	1065.1	1183.5	
Mosfe 180	159.7	319.4	479.0	638.6	798.3	958.0	1118.0	1277.6	1437.3	1597.0	
Mosfe 200	221.8	443.7	665.6	887.5	1109.4	1333.3	1553.1	1755.0	1996.9	2218.8	
Mosfe 240	372.5	745.0	1117.6	1490.2	1862.7	2235.3	2607.8	2980.4	3352.9	3725.4	
Mosfe 270	539.2	1078.4	1617.6	2156.8	2696.0	3235.2	3774.4	4313.6	4852.8	5392.0	
Mosfe 330	976.5	1953.0	2929.5	3906.0	4882.4	5858.9	6835.4	7811.9	8788.4	9764.9	
Mosfe 420	-	-	5013.0	6684.0	8354.0	10025.0	11696.0	13367.0	-	-	

SINGLE ACTING ACTUATOR TORQUE / TORSIONI ATTUATORI A SINGOLO EFFETTO [Nm]															
Type Tipo	Springs per side Molle per lato	AIR SUPPLY / ALIMENTAZIONE ARIA [bar]													
		3		4		5		6		7		8			
		0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°		
Mosfe 042	3					7.1	4.1	9.3	6.3	11.5	8.5	13.7	10.7	6.8	3.8
	4							8.1	5.1	10.2	6.2	12.4	8.4	9.0	5.0
Mosfe 050	3	5.7	3.5	8.9	6.6	12.0	9.6	15.1	12.7	18.1	15.7	21.2	18.8	5.7	3.5
	4			7.7	4.7	10.8	7.7	13.9	10.8	16.9	13.8	20.0	16.9	7.7	4.7
	5					9.6	5.8	12.7	8.9	15.7	11.9	18.8	15.0	9.6	5.8
	6					8.4	3.9	11.5	7.0	14.5	10.0	17.6	13.1	11.5	7.0
Mosfe 063	3	9.4	6.3	14.9	11.7	20.4	17.2	25.9	22.7	31.4	28.2	36.9	33.7	10.2	7.2
	4			12.3	8.3	17.8	13.8	23.3	19.3	28.8	24.8	34.3	30.3	13.7	9.7
	5					15.4	10.4	20.9	15.9	26.4	21.4	31.9	26.9	17.1	12.1
	6					13.0	7.0	18.5	12.5	24.0	18.0	29.5	23.5	20.5	14.5
Mosfe 075	3	22.5	12.6	34.2	24.4	46.0	36.1	57.7	47.8	69.4	59.5	81.1	71.2	22.5	12.6
	4			30.0	16.9	41.8	28.6	53.5	40.3	65.2	52.0	76.9	63.7	30.0	16.9
	5					37.6	21.1	49.3	32.8	61.0	44.5	72.7	56.2	37.6	21.1
	6					33.4	13.6	45.1	25.3	56.8	37.0	68.5	48.7	45.1	25.3
Mosfe 085	3	34.5	18.9	52.4	36.7	70.2	54.5	88.0	72.3	105.8	90.1	123.6	107.9	34.5	18.9
	4			46.1	25.2	63.9	43.0	81.7	60.8	99.5	78.6	117.3	96.4	46.1	25.2
	5					57.6	31.5	75.4	49.3	93.2	67.1	111.0	84.9	57.6	31.5
	6					51.5	20.0	69.1	37.8	86.9	55.6	104.7	73.4	69.1	37.8
Mosfe 100	3	53.2	30.0	80.9	57.7	108.7	85.4	136.4	113.1	164.1	140.8	191.8	168.5	53.2	30.0
	4			70.9	40.0	98.7	67.7	126.4	95.4	154.1	123.1	181.8	150.8	70.9	40.0
	5					88.7	50.0	116.4	77.7	144.1	105.4	171.8	133.1	88.7	50.0
	6					78.7	32.2	106.4	60.0	134.1	87.7	161.8	115.4	106.4	60.0
Mosfe 115	3	84.3	53.0	130.0	98.8	175.8	144.5	221.6	190.3	267.3	236.0	313.0	281.7	84.3	53.0
	4			112.3	70.7	158.1	116.4	203.9	162.2	249.6	207.9	295.3	253.6	112.3	70.7
	5					140.4	88.3	186.2	134.1	231.9	179.8	277.6	225.5	140.4	88.3
	6					122.7	60.2	168.5	106.0	214.2	151.7	259.9	197.4	168.5	106.0
Mosfe 125	3	116.8	63.7	177.0	123.9	237.3	184.1	297.5	244.2	357.6	304.3	417.7	364.4	116.8	63.7
	4			155.7	85.0	216.0	145.2	276.2	205.3	336.3	265.4	396.4	325.5	155.7	85.0
	5					194.7	106.3	254.9	166.4	315.0	226.5	375.1	286.6	194.7	106.3
	6					173.4	67.4	233.6	127.5	293.7	187.6	353.8	247.7	233.6	127.5

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Type Tipo	Springs per side Molle per lato	AIR SUPPLY / ALIMENTAZIONE ARIA [bar]													
		3		4		5		6		7		8			
		0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	90°	0°
Mosfe145	3	158.0	92.0	245.0	179.0	332.0	265.0	418.0	352.0	505.0	439.0	592.0	526.0	168.0	102.0
	4			211.0	123.0	298.0	210.0	384.0	269.0	471.0	383.0	558.0	470.0	224.0	136.0
	5					264.0	154.0	350.0	240.0	437.0	327.0	524.0	414.0	280.0	170.0
	6					230.0	98.0	316.0	184.0	403.0	271.0	490.0	358.0	336.0	204.0
Mosfe 160	3	222.4	132.6	340.7	251.0	459.1	369.3	577.4	487.6	695.7	605.9	814.0	724.2	222.4	132.6
	4			296.5	176.9	414.9	295.2	533.2	413.5	651.5	531.8	769.8	650.1	296.5	176.9
	5					370.7	221.1	489.0	339.4	607.3	457.7	725.6	576.0	370.7	221.1
	6					326.5	147.0	444.8	265.3	563.1	383.6	681.4	501.9	444.8	265.3
Mosfe 180	3	287.9	191.0	447.6	350.7	607.3	510.4	766.9	670.0	926.6	829.7	1068.0	989.1	287.9	191.0
	4			383.9	254.7	543.6	414.4	703.3	574.0	862.9	733.7	1022.3	893.1	383.9	254.7
	5					479.9	318.4	639.6	478.1	792.2	637.7	958.6	797.1	479.9	318.4
	6					416.2	222.4	575.9	382.1	735.6	541.8	894.9	701.1	575.9	382.1
Mosfe 200	3	423.6	242.0	644.7	463.8	867.4	685.8	1089.0	907.7	1311.0	1130.0	1533.0	1351.0	423.6	242.0
	4			564.8	322.6	786.7	544.6	1008.0	766.5	1230.0	988.4	1452.0	1209.0	564.8	322.6
	5					706.0	403.4	927.9	625.3	1150.0	847.2	1372.0	1068.0	706.0	403.4
	6					625.3	262.2	847.2	484.1	1069.0	706.0	1291.0	927.0	847.2	484.1
Mosfe 240	3	664.0	453.6	1036.6	826.2	1409.1	1198.7	1781.7	1571.2	2154.2	1943.8	2526.8	2316.3	664.0	453.6
	4			885.4	604.8	1257.9	977.4	1630.5	1349.9	2003.0	1722.5	2375.6	2095.0	885.4	604.8
	5					1106.7	756.0	1479.3	1128.6	1851.8	1501.1	2224.4	1873.7	1106.7	756.0
	6					955.5	534.7	1328.1	907.2	1700.6	1279.8	2073.2	1652.3	1328.1	907.2
Mosfe 270	3	912.5	705.1	1541.7	1244.3	1990.9	1783.5	2530.1	2322.7	3069.3	2861.9	3608.5	3401.1	912.5	705.1
	4			1216.7	940.2	1755.9	1479.4	2285.1	2018.6	2834.3	2557.8	3373.5	3097.0	1216.6	940.1
	5					1520.9	1175.5	2060.1	1714.4	2599.3	2144.4	3138.5	2792.8	1520.8	1175.1
	6					1285.8	871.0	1825.0	1410.2	2364.2	1953.6	2903.4	2488.6	1825.0	1410.2
Mosfe 330	3	1739.5	1193.5	2717.2	2171.1	3694.8	3148.8	4672.5	4126.4	5650.1	5104.1	6627.8	6081.8	1739.5	1193.5
	4			2319.3	1591.3	3297.0	2569.0	4274.6	3546.6	5252.3	4524.3	6230.0	5501.9	2319.3	1591.3
	5					2899.2	1989.1	3876.8	2966.8	4854.5	3944.4	5832.1	4922.1	2899.2	1989.1
	6					2501.3	1409.3	3479.0	2386.9	4456.7	3364.6	5434.3	4342.3	3479.0	2386.9
Mosfe 420	3	2999.	2014.0	4670.0	3685.0	6340.0	5356.0	8011.0	7026.0	9682.0	8697.0	11353	10368	2999.0	2014.0
	4			3998.0	2685.0	5669.0	4356.0	7340.0	6027.0	9011.0	7698.0	10682	9639.0	3999.0	2685.0
	5			3327.0	1685.0	4998.0	3356.0	6669.0	5027.0	8340.0	6698.0	10010	8369.0	4998.0	3357.0
	6					4327.0	2357.0	5997.0	4028.0	7668.0	5698.0	9339.0	7369.0	5998.0	4028.0



Mosfe actuator stainless steel version
Attuatore Mosfe versione in acciaio inox



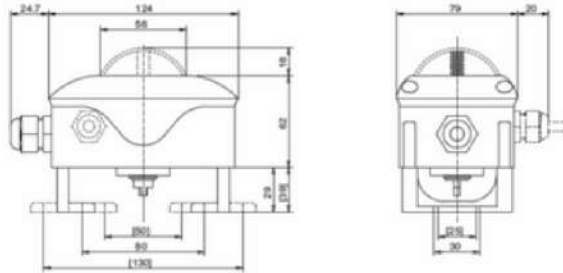
Indicatore visivo stato valvola su richiesta
Visual indicator valve status upon request



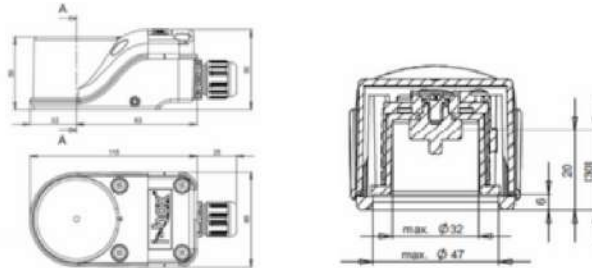
SBUNIMA
UNI EPP2M01

LIMIT SWITCH-BOXES FOR MOSFE ACTUATORS

SWITCH-BOX PER ATTUATORE MOSFE



SBKOMPMA
KOMP IP2M01



Type / Tipo	Universal model EPP2M01 (for Mosfe 042-145), compact model IP2M01 (for Mosfe 042-100) Modello universale EPP2M01 (per Mosfe 042-145) , modello compatto IP2M01 (per Mosfe 042-100)
Visual indicator / Indicatore visivo	Si / Yes
Protezione / Housing	IP67 norme DIN EN 60529 / IP67 according to DIN EN 60529
Cable gland / Pressacavo	M20x1.5 (cable/cavo Ø6-12 mm)
Switches / Interruttori	2 micro-switch 10A (250V AC), 2.5A (24V DC) with silver contacts. Other sensors on request 2 interruttori elettromeccanici 10A (250V AC), 2.5A (24V DC) contatti argentati. Altri sensori a richiesta.
Body / Corpo	Polyamide PA6 / Poliammide PA6
Cover / Coperchio	Trasparent polycarbonate / Policarbonato trasparente
Seals / Guarnizioni	Ptfe + Nbr (IP2M01); Epdm + Nbr (EPP2M01)
Screws / Viti	Stainless steel Aisi 304 / Acciaio inox Aisi 304
Shaft / Perno	Polyamide PA6 / Poliammide PA6

Mounting

Direct mounting (no bracket needed) drilling 80x30 mm and shaft height 20 or 30 mm (Komp IP2M01). Mounting bracket adjustable in height and length (Uni EPP2M01) according to VDI/VDE 3845

Montaggio

Diretto senza bracket su attuatori con foratura superiore 80x30 mm e altezza perno 20 o 30 mm (Komp IP2M01). Universale secondo norme VDI/VDE 3845 con bracket di montaggio regolabile in altezza e lunghezza (versione Uni EPP2M01)