

Tipo.....	Actuadores rotantes de 90° simple o doble efecto
Normas	ISO 5211 - DIN3337: para conexión con la válvula de proceso a automatizar NAMUR VDI/VDE 3845 para montaje de accesorios y válvula direccional de comando del actuador
Diámetros	32...400mm
Carrera	Rotación 90° con carrera ajustable ±4° en 0° y 90°. Actuadores especiales a pedido
Temp. ambiente	-20...80 °C (-4...176°F). Consulte por aplicaciones especiales
Fluido	Aire comprimido filtrado con o sin lubricación
Presión de trabajo	2,5...8 bar (36 a 116 psi)
Materiales	Cuerpo de aluminio extruido con protección interna y externa contra la corrosión



Ø	Simple efecto	Doble efecto
32	-	0.900.006.001
52	0.900.009.222	0.900.009.202
63	0.900.009.223	0.900.009.203
75	0.900.009.224	0.900.009.204
83	0.900.009.225	0.900.009.205
92	0.900.009.226	0.900.009.206
105	0.900.009.227	0.900.009.207
125	0.900.009.228	0.900.009.208
140	0.900.009.229	0.900.009.209
160	0.900.009.230	0.900.009.210
190	0.900.009.231	0.900.009.211
210	0.900.009.232	0.900.009.212
240	0.900.009.233	0.900.009.213
270	0.900.009.234	0.900.009.214
300	0.900.009.235	0.900.009.215
350	0.900.009.236	0.900.009.216
400	0.900.009.237	0.900.009.217



Indicación visual de posición para la válvula. Conexión VDI/VDE 3845 NAMUR. Apto para montaje directo de todos los tipos de accesorios normalizados.

Conexión lateral VDI/VDE 3845 NAMUR para montaje directo de la Válvula direccional.

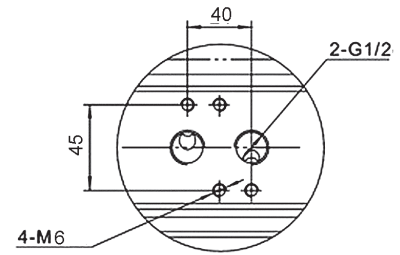
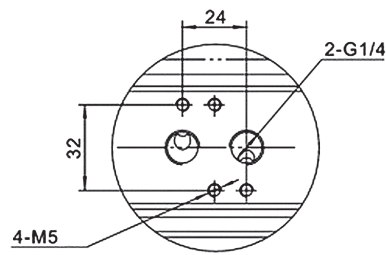
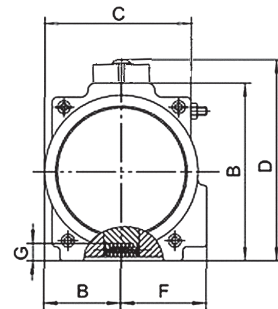
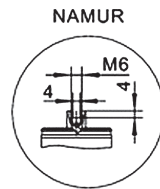
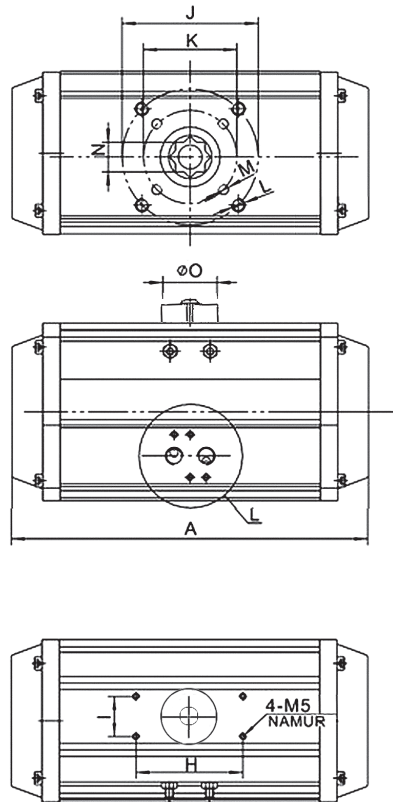


Montaje ISO 5211 para conexión con la válvula a automatizar.



Válvulas Namur

Las válvulas versión NAMUR poseen una interfáz para instalación directa en los actuadores rotantes para comando de válvulas de esfera y mariposa, conforme norma VDI/VDE 3845.
(mayor información en la pág. 2.2.5.3)



Ø32 a 240

Ø270 a 400

Ø	A	B	C	D	E	F	G	H	I	J	K	L	M	N	Ø O	Conex.
32	110	45	45	65	22.5	23	12	50	25	-	F03 ø36	-	M5×5	9	-	G1/8"
52	143	72	55	92	30	41	14	80	30	F05 ø50	F03 ø36	M6×8	M5×8	11	40	G1/4"
63	190	88	69	108	35	45	18	80	30	F07 ø70	F05 ø50	M8×13	M6×10	14	40	G1/4"
75	207	99.5	100.5	119.5	38.5	52.5	20.5	80	30	F07 ø70	F05 ø50	M8×10	M6×8	14	40	G1/4"
83	213	109	88	129	46	52.5	21	80	30	F07 ø70	F05 ø50	M8×13	M6×10	17	40	G1/4"
92	258	117	98.5	137	50	61	21	80	30	F07 ø70	F05 ø50	M8×12	M6×10	17	40	G1/4"
105	267	133	109	153	57	64	26	80	30	F10 ø102	F07 ø70	M10×13	M8×10	22	40	G1/4"
125	340	155	120.5	175	67.5	70	27.5	80	30	F10 ø102	F07 ø70	M10×16	M8×13	22	65	G1/4"
140	414	171.5	132	191.5	75	76	32	80	30	F12 ø125	F10 ø102	M12×20	M10×15	27	65	G1/4"
160	476	197	159.5	217	87.5	87.5	34	80	30	F12 ø125	F10 ø102	M12×20	M10×15	27	65	G1/4"
190	515	230	184	260	102	102	40	130	30	F14 ø140	-	M16×22	-	36	78	G1/4"
210	580	255	205	285	113	113	40	130	30	F14 ø140	-	M16×24	-	36	78	G1/4"
240	654	290	240	320	130	130	50	130	30	F16 ø165	-	M20×26	-	46	78	G3/8"(1/4")
270	725	320	269	350	147	147	50	130	30	F16 ø165	-	M20×26	-	46	78	G1/2"(1/4")
300	742	357	315	387	190	190	57	130	30	ø165	-	M20×26	-	46	78	G1/2'
350	865	406	385	436	215	215	60	130	30	ø165	-	M20×26	-	46	78	G1/2'
400	925	462	408	492	258	258	60	130	30	ø254	ø165	M20×26	M16×29	55	78	G1/2'

Tabla de torque simple efecto (Nm)

Ø	Presión (bar)	3		4		5		6		7		Carrera resorte		
		0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	
		COMIENZO	FINAL	COMIENZO	FINAL	COMIENZO	FINAL	COMIENZO	FINAL	COMIENZO	FINAL	COMIENZO	FINAL	
52	5	8.48	6.28	12.64	10.44							4	6.2	
	6	7.68	4.98	11.84	9.14							4.8	7.5	
	7	6.98	3.78	11.14	7.94							5.5	8.7	
	8			10.34	6.74	14.5	10.9					6.3	9.9	
	9			9.54	5.44	13.7	9.6					7.1	11.2	
	10			8.74	4.24	12.9	8.4	17.06	12.56			7.9	12.4	
	11					12.1	7.1	16.26	11.26	20.42	15.42	8.7	13.7	
	12					11.3	5.9	15.46	10.06	19.62	14.22	9.5	14.9	
	63	5	15	11.2	22.3	18.5	29.6	25.8					7	10.8
		6	13.5	9	20.8	16.3	28.1	23.7					8.5	12.95
		7	12	6.9	19.4	14.2	26.7	21.5					9.9	15.1
		8			18	12	25.3	19.3	32.6	26.6			11.3	17.3
9				16.5	9.9	23.9	17.2	31.2	24.52			12.7	19.4	
10				15.3	7.7	22.6	15	29.9	22.3	37.2	29.6	14	21.6	
11				13.8	5.6	21.1	12.9	28.4	20.2	35.7	27.5	15.5	23.7	
12						19.7	10.7	27	18	34.3	25.3	16.9	25.9	
75		5	23.4	17.8	35.1	29.5							11.9	17.5
		6	21.1	14.3	32.8	26							14.2	21
		7	18.7	10.8	30.4	22.5							16.6	24.5
		8			28	19	39.8	30.8					19	28
	9			25.7	15.5	37.5	27.3					21.3	31.5	
	10			23.3	12	35.1	23.8	46.8	35.5	58.6	47.3	23.7	35	
	11					32.7	20.3	44.4	32	56.2	43.8	26.1	38.5	
	12					30.4	16.8	42.1	28.5	53.9	40.3	28.4	42	
	83	5	30.9	23.8	46.1	38.9							14.5	21.7
		6	28.1	19.5	43.3	34.6							17.39	26
		7	25.2	15.1	40.3	30.2							20.3	30.4
		8			37.5	25.9	52.6	41.1					23.2	34.7
9				34.5	21.5	49.7	36.7					26.1	39.1	
10				31.6	17.2	46.8	32.4	62	47.6	77.1	62.7	29	43.4	
11						43.9	28.1	59.1	43.3	74.2	58.4	31.9	47.7	
12						41	23.7	56.2	38.8	71.3	54	34.78	52.08	
92		5	50.28	37.78	75.54	63.03							25.5	38
		6	45.18	30.18	70.44	55.44							30.6	45.6
		7	40.08	22.58	65.34	47.84							35.7	53.2
		8			60.24	40.24	85.5	65.5					40.8	60.8
	9			55.14	32.69	80.4	57.9					45.9	68.4	
	10			50.04	25.04	75.3	50.3	100.56	75.56	125.82	100.82	51	76	
	11					70.2	42.7	95.46	67.96	120.72	93.22	56.1	83.6	
	12					65.1	35.1	90.36	60.36	115.6	85.6	61.2	91.2	
	105	5	68.6	52	103.6	87							33.2	49.8
		6	61.9	42	96.9	77							39.9	59.8
		7	55.3	32.1	90.3	67.1							46.5	69.7
		8			83.7	57.1	116.6	90					53.1	79.7
9				77	47.4	109.9	80.3					59.8	89.4	
10				70.4	37.2	103.3	70.1	137.5	104	171.2	138	66.4	99.6	
11						96.7	60.1	130.6	94	164.6	128	73	109.6	
12						90	50.2	123.9	64.1	157.9	118.1	79.7	119.5	
125		5	115.5	88	173.8	146.3							59.4	86.9
		6	103.6	70.6	161.9	128.9							71.3	104.3
		7	91.8	53.5	150.1	111.6							83.1	121.6
		8			138.2	94.2	196.5	152.5					95	139
	9			126.3	76.8	184.6	135.1					106.9	156.4	
	10			114.4	59.4	172.7	117.7	231	176			118.8	173.8	
	11					160.9	100.4	219.2	158.7	277.5	217	130.6	191.1	
	12					149	83	207.3	141.3	265.6	199.6	142.5	208.5	
	140	5	174.7	131.2	262.5	219							88.5	132
		6	157	104.8	244.8	192.6							106.2	158.4
		7	133.9	78.4	227.1	166.2							123.9	184.8
		8			209.4	139.8	297.1	227.5					141.6	211.2
9				191.7	113.4	279.4	201.1					159.3	237.6	
10				174	87	261.7	174.7	349.4	262.4	437.8	350.1	177	264	
11						244	148.3	331.7	236	419.5	323.8	194.7	290.4	
12						226.3	121.9	314	209.6	401.8	297.4	212.4	316.8	
160		5	264.6	197.1	398.3	330.8							136.5	204
		6	237.3	156.2	371	289.8							163.8	244.9
		7	210	115.4	343.7	249.1							191.1	285.7
		8	182.7	74.6	316.4	208.3	450.1	341.9					218.4	326.5
	9			289.1	167.5	422.8	301.2					245.7	367.3	
	10			261.8	126.7	395.5	260.4	529.2	394.1			237	408.1	
	11					368.2	219.6	501.9	353.3	635.6	487	300.3	448.9	
	12					340.9	178.8	474.6	312.5	608.3	446.2	327.6	489.7	
	190	5	429	320.4	644.5	535.9							217.4	326
		6	385.5	255.5	601	470.7							260.9	391.2
		7	342	190	557.5	405.5							304.4	456.4
		8			514	340.3	729.5	555.8					347.9	521.6
9				470.6	275.1	686.1	490.6					391.3	586.8	
10				427.1	209.9	642.6	425.4	858.1	640.9	1073.6	856.4	434.8	652	
11						599.1	360.2	814.6	575.7	1030.1	791.2	478.3	717.2	
12						555.6	295	771.1	510.5	986.6	726	521.8	782.4	

Ø	Cantidad Resortes	3		4		5		6		7		Carrera resorte		
		0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	0°	90°	
		COMIENZO	FINAL	COMIENZO	FINAL	COMIENZO	FINAL	COMIENZO	FINAL	COMIENZO	FINAL	COMIENZO	FINAL	
210	5	589.6	440.6	885.7	736.7							298.8	447.8	
	6	529.8	351.1	825.9	647.2							358.6	537.3	
	7	470.1	261.5	766.2	557.6							418.3	626.9	
	8			706.4	468.1	1002.5	764.2					478.1	716.4	
	9			646.7	375.5	942.8	671.6					537.8	809	
	10			586.9	289	883	585.1	1179.1	881.2	1475.2	1177.3	597.6	895.5	
	11					823.2	495.5	1119.3	791.6	1415.4	1087.7	657.4	958.1	
	12					763.5	406	1059.6	702.1	1355.7	998.2	717	1074.6	
	240	5	924	690.5	1488.1	1154.6							468.5	702
		6	829.9	550.1	1294	1014.2							562.6	842.4
		7	736.7	409.7	1200.8	873.8							655.8	928.8
		8			1107.1	733.4	1571.3	1197.6					749.5	1123.2
9				1013.4	593	1477.6	1057.2					843.2	1263.6	
10				919.7	452.6	1383.9	916.8	1848.1	1381	2312.2	1845.1	936.9	1404	
11						1290.2	776.4	1754.4	1240.6	2218.5	1704.7	1030.6	1544.4	
12						1196.5	636	1660.7	1100.2	2124.8	1564.3	1124.3	1684.8	
270		5	1299.7	971.2	1952.4	1623.9							658.5	987
		6	1168	773.8	1820.7	1426.5							790.2	1184.4
		7	1036.3	576.4	1689	1229.1							921.9	1381.8
		8			1557.3	1031.7	2210	1684.4					1053.6	1579.2
	9			1425.6	834.3	2078.3	1487					1185.3	1776.6	
	10			1293.9	636.9	1946.6	1289.6	2599.3	1942.3	3252	2595	1317	1974	
	11					1814.9	1092.2	2467.6	1744.9	3120.3	2397.6	1448.7	2171.4	
	12					1683.2	894.8	2335.9	1547.5	2988.6	2200.2	1580.4	2368.8	
	300	5	1603	1183									800	1220
		6	1483	1066									920	1337
		7	1330	844	2132	1646							1073	1559
		8	1177	621	1979	1423	2780	2224					1226	1782
9				1825	1201	2626	2002	3427	2803			1380	2004	
10				1652	977	2473	1778	3274	2579	4075	3380	1533	2228	
11						2320	1556	3121	2357	3922	3158	1686	2450	
12						2014	1077	2815	1878	3686	2679	1022	2929	
350		5	2399	1739									1199	1859
		6	2120	1453									1478	2145
		7	1874	1096	3074	2296							1724	2502
		8	1627	738	2827	1938	4027	3138					1971	2860
	9			2580	1581	3780	2781	4979	3980			2218	3217	
	10			2335	1223	3535	2423	4734	3622	5934	4822	2463	3575	
	11					3288	2066	4487	3265	5687	4465	2710	3932	
	12					3120	1537	4319	2736	5519	3936	2878	4461	
	400	5	3418	2479									1709	2648
		6	2922	1670									2205	3457
		7	2647	1239	4357	2949							2480	3888
		8	2372	806	4082	2516	5191	4225					2755	4321
9				3806	2085	5515	3794	7224	5503			3031	4572	
10				3531	1652	5240	3361	6949	5070	8658	6779	3306	5185	
11						4963	2930	6672	4639	8381	6348	3583	5616	
12						4445	2190	6154	3822	8106	5608	4101	6356	

Tabla de torque doble efecto (Nm)

Ø	Presión (bar)						
	2	3	4	5	6	7	8
32	2.78	4.2	6	7.5	9	10	11.5
52	8.32	12.48	16.64	20.8	24.96	29.12	33.28
63	14.64	21.96	29.28	36.6	43.92	51.24	58.56
75	23.5	35.3	47	58.8	70.5	82.3	94
83	29.7	44.5	59.4	74.2	89.1	103.9	118.8
92	45.5	68.2	91.1	113.7	136.4	159.2	181.9
105	67.88	101.82	136.76	169.7	203.64	237.58	271.52
125	116.6	174.9	233.2	291.5	349.8	408.1	466.4
140	175.48	263.22	350.96	438.7	526.44	614.18	701.92
160	267.4	401.1	534.8	668.5	802.2	935.9	1069.6
190	430.96	646.44	861.9	1070.4	1292.9	1508.4	1723.8
210	592.2	888.4	1184.5	1480.6	1776.7	2072.8	2369
240	831.9	1220.8	1627.8	2030.7	2444.6	2848.6	3255.5
270	1305.4	1958.2	2610.9	3243.6	3916.3	4569	5221.8
300	1602	2403	3205	4006	4807	5608	6409
350	2399	3598	4798	5998	7197	8397	9596
400	3418	5127	6837	8546	10255	11964	13673