

Cilindro de émbolo doble, Serie TWC-HL

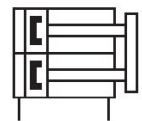
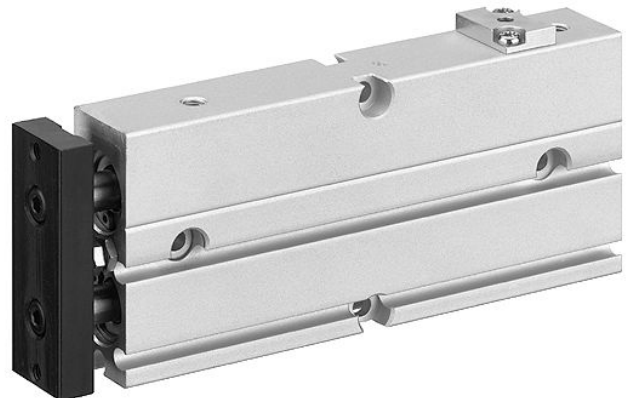
R402000861

Cilindros de
doble pistón
AVENTICS
serie TWC

2024-04-05

Cilindros de doble pistón AVENTICS serie TWC

El cilindro AVENTICS de la serie TWC es un cilindro compacto y potente con un doble pistón que proporciona además una alta precisión antigiro.



Datos técnicos

Sector	Industria
Ø del émbolo	20 mm
Carrera	80 mm
Orificio	M5
Principio activo	de efecto doble
Émbolo magnético	con émbolo magnético
Bloqueo de finales de carrera	cilindro retraído
Fluido	Aire comprimido
Tamaño de partículas máx.	5 µm
Presión para determinar las fuerzas de émbolo	6,3 bar
Amortiguación	elástico
Temperatura ambiente mín.	0 °C
Temperatura ambiente máx.	60 °C
Contenido de aceite del aire comprimido min.	0 mg/m³
Contenido de aceite del aire comprimido máx.	1 mg/m³
Presión de funcionamiento mín.	1.5 bar
Presión de funcionamiento máx.	7 bar
Fuerza de émbolo durante retracción	296 N
Fuerza de émbolo durante extracción	395 N
Velocidad máx.	0.5 m/s
Fuerza de retención máx. durante el bloqueo	150 N
Juego máx. con finales de carrera bloqueados	1 mm
Energía de amortiguación máx.	0.17 J
Peso 10 mm carrera	0.37 kg
Peso +10 mm de carrera	0.05 kg

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Máx. juego (radial)

0.6 °

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Material

Material de la tapa frontal	Acero, cromado
Superficie tapa frontal	niquelado
Material de la tapa trasera	Polioximetileno
Material carcasa	Aluminio
Superficie Carcasa	anodizado
Material vástago	Acero, cromado
Superficie Vástago	templado
Material placa frontal	Acero, cromado
Superficie Placa frontal	galvanizado
Material juntas	Caucho de acrilnitrilo butadieno
Material casquillo de guía	Aluminio
Superficie casquillo de guía	anodizado
N° de material	R402000861

Información técnica

Función adicional: bloqueo de finales de carrera en caso de pérdida de presión

El punto de condensación de presión se debe situar como mínimo 15 °C por debajo de la temperatura ambiental y del medio, y debe ser como máx. de 3 °C .

El contenido de aceite del aire comprimido debe permanecer constante durante toda la vida útil.

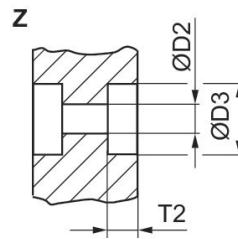
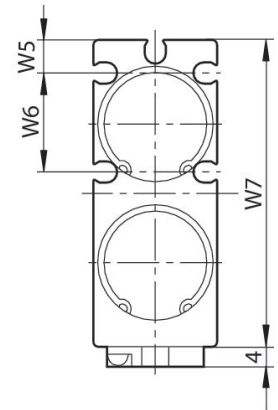
Utilice solo aceites permitidos por AVENTICS. Encontrará más información en el documento "Información técnica" (disponible en el <https://www.emerson.com/en-us/support>).

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Technical drawing of a mechanical component showing dimensions and features. The drawing includes a side view on the left and a top view on the right. Dimensions are labeled as follows:

- Horizontal Dimensions (Top View):**
 - $L1$: Total length of the top view.
 - $L2$: Length of the bottom section of the top view.
 - $L3$: Distance from the left edge to the first vertical feature.
 - $L4$: Distance from the left edge to the second vertical feature.
 - $L5$: Distance between the second and third vertical features.
 - $L6$: Distance between the third and fourth vertical features.
 - $L7$: Distance from the fourth vertical feature to the right edge.
 - $L8$: Distance from the left edge to the center of the first circular feature.
- Vertical Dimensions (Side View):**
 - $W1$: Total height of the side view.
 - $W2$: Height of the upper section.
 - $W3$: Height of the lower section.
 - $W4$: Height of the bottom section.
- Other Dimensions and Features:**
 - $D1, T1$: Dimensions of the first vertical feature.
 - $D2$: Diameter of the first circular feature.
 - $D3$: Diameter of the second circular feature.
 - $D4$: Diameter of the third circular feature.
 - $D5$: Diameter of the fourth circular feature.
 - $D6$: Diameter of the fifth circular feature.
 - $D7$: Diameter of the sixth circular feature.
 - $D8$: Diameter of the seventh circular feature.
 - $D9$: Diameter of the eighth circular feature.
 - $D10$: Diameter of the ninth circular feature.
 - $D11$: Diameter of the tenth circular feature.
 - $D12$: Diameter of the eleventh circular feature.
 - $D13$: Diameter of the twelfth circular feature.
 - $D14$: Diameter of the thirteenth circular feature.
 - $D15$: Diameter of the fourteenth circular feature.
 - $D16$: Diameter of the fifteenth circular feature.
 - $D17$: Diameter of the sixteenth circular feature.
 - $D18$: Diameter of the seventeenth circular feature.
 - $D19$: Diameter of the eighteenth circular feature.
 - $D20$: Diameter of the nineteenth circular feature.
 - $D21$: Diameter of the twentieth circular feature.
 - $D22$: Diameter of the twenty-first circular feature.
 - $D23$: Diameter of the twenty-second circular feature.
 - $D24$: Diameter of the twenty-third circular feature.
 - $D25$: Diameter of the twenty-fourth circular feature.
 - $D26$: Diameter of the twenty-fifth circular feature.
 - $D27$: Diameter of the twenty-sixth circular feature.
 - $D28$: Diameter of the twenty-seventh circular feature.
 - $D29$: Diameter of the twenty-eighth circular feature.
 - $D30$: Diameter of the twenty-ninth circular feature.
 - $D31$: Diameter of the thirtieth circular feature.
 - $D32$: Diameter of the thirty-first circular feature.
 - $D33$: Diameter of the thirty-second circular feature.
 - $D34$: Diameter of the thirty-third circular feature.
 - $D35$: Diameter of the thirty-fourth circular feature.
 - $D36$: Diameter of the thirty-fifth circular feature.
 - $D37$: Diameter of the thirty-sixth circular feature.
 - $D38$: Diameter of the thirty-seventh circular feature.
 - $D39$: Diameter of the thirty-eighth circular feature.
 - $D40$: Diameter of the thirty-ninth circular feature.
 - $D41$: Diameter of the fortieth circular feature.
 - $D42$: Diameter of the forty-first circular feature.
 - $D43$: Diameter of the forty-second circular feature.
 - $D44$: Diameter of the forty-third circular feature.
 - $D45$: Diameter of the forty-fourth circular feature.
 - $D46$: Diameter of the forty-fifth circular feature.
 - $D47$: Diameter of the forty-sixth circular feature.
 - $D48$: Diameter of the forty-seventh circular feature.
 - $D49$: Diameter of the forty-eighth circular feature.
 - $D50$: Diameter of the forty-ninth circular feature.
 - $D51$: Diameter of the fiftieth circular feature.
 - $D52$: Diameter of the fifty-first circular feature.
 - $D53$: Diameter of the fifty-second circular feature.
 - $D54$: Diameter of the fifty-third circular feature.
 - $D55$: Diameter of the fifty-fourth circular feature.
 - $D56$: Diameter of the fifty-fifth circular feature.
 - $D57$: Diameter of the fifty-sixth circular feature.
 - $D58$: Diameter of the fifty-seventh circular feature.
 - $D59$: Diameter of the fifty-eighth circular feature.
 - $D60$: Diameter of the fifty-ninth circular feature.
 - $D61$: Diameter of the sixtieth circular feature.
 - $D62$: Diameter of the sixty-first circular feature.
 - $D63$: Diameter of the sixty-second circular feature.
 - $D64$: Diameter of the sixty-third circular feature.
 - $D65$: Diameter of the sixty-fourth circular feature.
 - $D66$: Diameter of the sixty-fifth circular feature.
 - $D67$: Diameter of the sixty-sixth circular feature.
 - $D68$: Diameter of the sixty-seventh circular feature.
 - $D69$: Diameter of the sixty-eighth circular feature.
 - $D70$: Diameter of the sixty-ninth circular feature.
 - $D71$: Diameter of the seventieth circular feature.
 - $D72$: Diameter of the seventy-first circular feature.
 - $D73$: Diameter of the seventy-second circular feature.
 - $D74$: Diameter of the seventy-third circular feature.
 - $D75$: Diameter of the seventy-fourth circular feature.
 - $D76$: Diameter of the seventy-fifth circular feature.
 - $D77$: Diameter of the seventy-sixth circular feature.
 - $D78$: Diameter of the seventy-seventh circular feature.
 - $D79$: Diameter of the seventy-eighth circular feature.
 - $D80$: Diameter of the seventy-ninth circular feature.
 - $D81$: Diameter of the eightieth circular feature.
 - $D82$: Diameter of the eighty-first circular feature.
 - $D83$: Diameter of the eighty-second circular feature.
 - $D84$: Diameter of the eighty-third circular feature.
 - $D85$: Diameter of the eighty-fourth circular feature.
 - $D86$: Diameter of the eighty-fifth circular feature.
 - $D87$: Diameter of the eighty-sixth circular feature.
 - $D88$: Diameter of the eighty-seventh circular feature.
 - $D89$: Diameter of the eighty-eighth circular feature.
 - $D90$: Diameter of the eighty-ninth circular feature.
 - $D91$: Diameter of the ninetieth circular feature.
 - $D92$: Diameter of the ninety-first circular feature.
 - $D93$: Diameter of the ninety-second circular feature.
 - $D94$: Diameter of the ninety-third circular feature.
 - $D95$: Diameter of the ninety-fourth circular feature.
 - $D96$: Diameter of the ninety-fifth circular feature.
 - $D97$: Diameter of the ninety-sixth circular feature.
 - $D98$: Diameter of the ninety-seventh circular feature.
 - $D99$: Diameter of the ninety-eighth circular feature.
 - $D100$: Diameter of the ninety-ninth circular feature.



Technical drawings of the 1000 Series 1/2. The left drawing is a front view showing a rectangular block with two circular features. Dimensions include D5 (top left), W8 (width of the first feature), W1 (total width), and a central vertical line. The right drawing is a side view showing a cylindrical component with a central hole. Dimensions include L9 (length of the main body), D4 11 (hole diameter), L13 (length of the first section), L10 (length of the second section), and 19 (height of the base).

T1 = profundidad de rosca

Ø del émbolo	L2 ±0,2 S=80 2)	L3	L4	L5	L6	L7 ±0,2 1)	L8 ±0,2 S=10 2)	L8 ±0,2 S=20 2)	L8 ±0,2 S=30 2)
16	153	8	1	6	15	40	40	45	50
20	158	10	1	9	15	40	40	45	50

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Ø del émbolo	L2 ±0,2 S=80 2)	L3	L4	L5	L6	L7 ±0,2 1)	L8 ±0,2 S=10 2)	L8 ±0,2 S=20 2)	L8 ±0,2 S=30 2)
25	162	10	1	8	15	50	45	50	55

Ø del émbolo	L8 ±0,2 S=40 2)	L8 ±0,2 S=50 2)	L8 ±0,2 S=60 2)	L8 ±0,2 S=70 2)	L8 ±0,2 S=80 2)	L9	L10	L13	W1
16	55	60	65	70	75	22	10	13	53
20	55	60	65	70	75	25	12	13	61
25	60	65	70	75	80	30	12	10	72

Ø del émbolo	W2 ±0,2	W3	W4 ±0,2	W5	W6	W7	W8 ±0,2
16	34	24	47	5.7	18.5	54	47
20	44	28	55	6.8	20	62	55
25	56	34	66	8.3	22.5	73	66

S = carrera

1) + carrera

2) medida para la carrera indicada