

Cilindro de émbolo doble, Serie TWC-HL

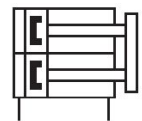
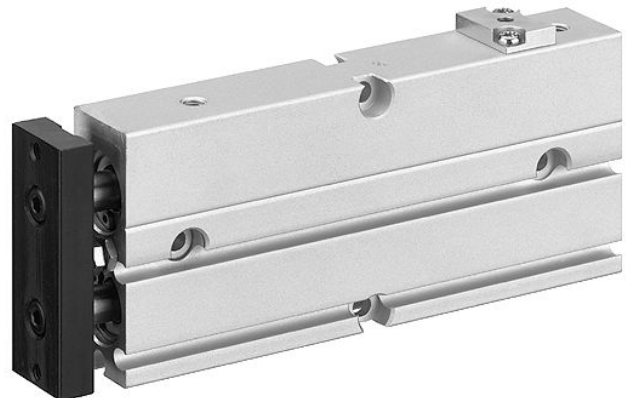
R402000855

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	20 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	R402000855

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.

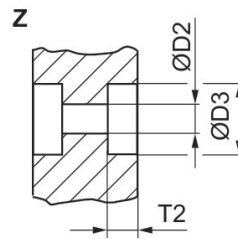
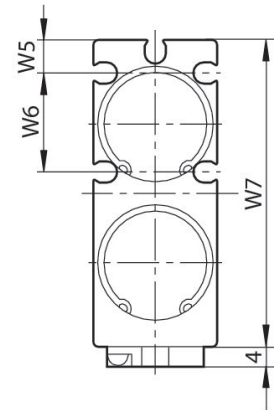
Utilice solo aceites permitidos por AVENTICS. Encontrará más información en el documento "Información técnica" (disponible en el <https://www.emerson.com/en-us/support>).

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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), L2 (length of the main body), L3 (width of the base), L4 (width of the base), L5 (width of the base), L6 (width of the base), L7 (width of the base), L8 (width of the base), L9 (width of the base).
- Vertical Dimensions (Side View):** W1 (total height), W2 (height of the main body), W3 (height of the base), W4 (height of the base).
- Other Dimensions:** D1, T1 (diameter of the base), D2 (diameter of the base), D3 (diameter of the base), D4 (diameter of the base), D5 (diameter of the base), D6 (diameter of the base), D7 (diameter of the base), D8 (diameter of the base), D9 (diameter of the base), D10 (diameter of the base), D11 (diameter of the base), D12 (diameter of the base), D13 (diameter of the base), D14 (diameter of the base), D15 (diameter of the base), D16 (diameter of the base), D17 (diameter of the base), D18 (diameter of the base), D19 (diameter of the base), D20 (diameter of the base), D21 (diameter of the base), D22 (diameter of the base), D23 (diameter of the base), D24 (diameter of the base), D25 (diameter of the base), D26 (diameter of the base), D27 (diameter of the base), D28 (diameter of the base), D29 (diameter of the base), D30 (diameter of the base), D31 (diameter of the base), D32 (diameter of the base), D33 (diameter of the base), D34 (diameter of the base), D35 (diameter of the base), D36 (diameter of the base), D37 (diameter of the base), D38 (diameter of the base), D39 (diameter of the base), D40 (diameter of the base), D41 (diameter of the base), D42 (diameter of the base), D43 (diameter of the base), D44 (diameter of the base), D45 (diameter of the base), D46 (diameter of the base), D47 (diameter of the base), D48 (diameter of the base), D49 (diameter of the base), D50 (diameter of the base), D51 (diameter of the base), D52 (diameter of the base), D53 (diameter of the base), D54 (diameter of the base), D55 (diameter of the base), D56 (diameter of the base), D57 (diameter of the base), D58 (diameter of the base), D59 (diameter of the base), D60 (diameter of the base), D61 (diameter of the base), D62 (diameter of the base), D63 (diameter of the base), D64 (diameter of the base), D65 (diameter of the base), D66 (diameter of the base), D67 (diameter of the base), D68 (diameter of the base), D69 (diameter of the base), D70 (diameter of the base), D71 (diameter of the base), D72 (diameter of the base), D73 (diameter of the base), D74 (diameter of the base), D75 (diameter of the base), D76 (diameter of the base), D77 (diameter of the base), D78 (diameter of the base), D79 (diameter of the base), D80 (diameter of the base), D81 (diameter of the base), D82 (diameter of the base), D83 (diameter of the base), D84 (diameter of the base), D85 (diameter of the base), D86 (diameter of the base), D87 (diameter of the base), D88 (diameter of the base), D89 (diameter of the base), D90 (diameter of the base), D91 (diameter of the base), D92 (diameter of the base), D93 (diameter of the base), D94 (diameter of the base), D95 (diameter of the base), D96 (diameter of the base), D97 (diameter of the base), D98 (diameter of the base), D99 (diameter of the base), D100 (diameter of the base).



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 W2 (width of the second feature). The right drawing is a side view showing a cylindrical component with a central hole. Dimensions include L9 (length of the first section), D4 1 (hole diameter), L12 (length of the second section), L10 (length of the third section), H1 (height), and T9 (thickness 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