

Cilindro de émbolo doble, Serie TWC-HL

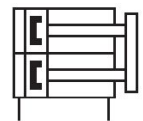
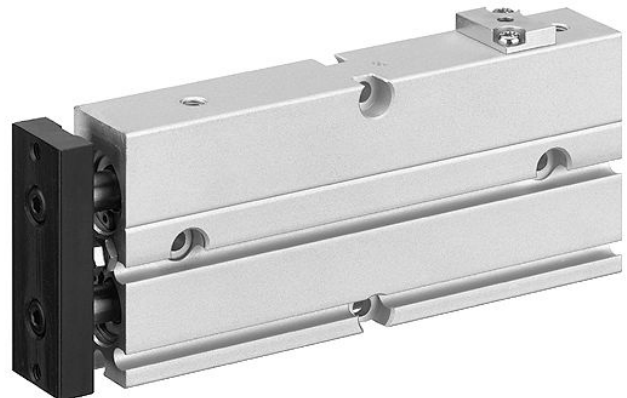
R402000856

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	30 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	R402000856

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.

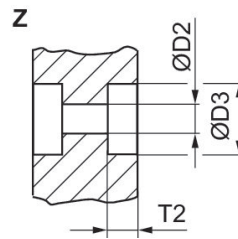
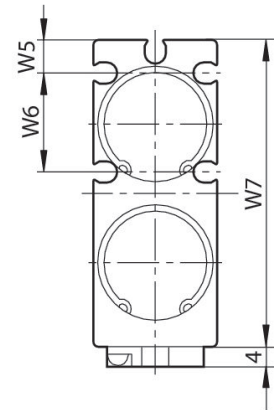
Utilice solo aceites permitidos por AVENTICS. Encontrará más información en el documento "Información técnica" (disponible en el <https://www.emerson.com/en-us/support>).

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Technical drawing of a mechanical component showing dimensions and features. The drawing includes a side view and a top view. Key dimensions and features are labeled as follows:

- Dimensions:**
 - $L1$: Total length of the component.
 - $L2$: Length of the main body.
 - $L3$: Distance from the left edge to the first vertical section.
 - $L4$: Distance from the left edge to the second vertical section.
 - $L5$: Distance from the left edge to the third vertical section.
 - $L6$: Distance from the left edge to the fourth vertical section.
 - $L7$: Distance from the left edge to the fifth vertical section.
 - $L8$: Distance from the left edge to the sixth vertical section.
 - $L9$: Distance from the left edge to the seventh vertical section.
- Widths:**
 - $W1$: Total width of the component.
 - $W2$: Width of the main body.
 - $W3$: Width of the top section.
 - $W4$: Width of the bottom section.
- Other Dimensions:**
 - $D1, T1$: Diameter and thickness of the first vertical section.
 - $D2$: Diameter of the second vertical section.
 - $D3$: Diameter of the third vertical section.
 - $D4$: Diameter of the fourth vertical section.
 - $D5$: Diameter of the fifth vertical section.
 - $D6$: Diameter of the sixth vertical section.
 - $D7$: Diameter of the seventh vertical section.
 - $D8$: Diameter of the eighth vertical section.
 - $D9$: Diameter of the ninth vertical section.
 - $D10$: Diameter of the tenth vertical section.
 - $D11$: Diameter of the eleventh vertical section.
 - $D12$: Diameter of the twelfth vertical section.
 - $D13$: Diameter of the thirteenth vertical section.
 - $D14$: Diameter of the fourteenth vertical section.
 - $D15$: Diameter of the fifteenth vertical section.
 - $D16$: Diameter of the sixteenth vertical section.
 - $D17$: Diameter of the seventeenth vertical section.
 - $D18$: Diameter of the eighteenth vertical section.
 - $D19$: Diameter of the nineteenth vertical section.
 - $D20$: Diameter of the twentieth vertical section.
 - $D21$: Diameter of the twenty-first vertical section.
 - $D22$: Diameter of the twenty-second vertical section.
 - $D23$: Diameter of the twenty-third vertical section.
 - $D24$: Diameter of the twenty-fourth vertical section.
 - $D25$: Diameter of the twenty-fifth vertical section.
 - $D26$: Diameter of the twenty-sixth vertical section.
 - $D27$: Diameter of the twenty-seventh vertical section.
 - $D28$: Diameter of the twenty-eighth vertical section.
 - $D29$: Diameter of the twenty-ninth vertical section.
 - $D30$: Diameter of the thirtieth vertical section.
 - $D31$: Diameter of the thirty-first vertical section.
 - $D32$: Diameter of the thirty-second vertical section.
 - $D33$: Diameter of the thirty-third vertical section.
 - $D34$: Diameter of the thirty-fourth vertical section.
 - $D35$: Diameter of the thirty-fifth vertical section.
 - $D36$: Diameter of the thirty-sixth vertical section.
 - $D37$: Diameter of the thirty-seventh vertical section.
 - $D38$: Diameter of the thirty-eighth vertical section.
 - $D39$: Diameter of the thirty-ninth vertical section.
 - $D40$: Diameter of the fortieth vertical section.
 - $D41$: Diameter of the forty-first vertical section.
 - $D42$: Diameter of the forty-second vertical section.
 - $D43$: Diameter of the forty-third vertical section.
 - $D44$: Diameter of the forty-fourth vertical section.
 - $D45$: Diameter of the forty-fifth vertical section.
 - $D46$: Diameter of the forty-sixth vertical section.
 - $D47$: Diameter of the forty-seventh vertical section.
 - $D48$: Diameter of the forty-eighth vertical section.
 - $D49$: Diameter of the forty-ninth vertical section.
 - $D50$: Diameter of the fiftieth vertical section.
 - $D51$: Diameter of the fifty-first vertical section.
 - $D52$: Diameter of the fifty-second vertical section.
 - $D53$: Diameter of the fifty-third vertical section.
 - $D54$: Diameter of the fifty-fourth vertical section.
 - $D55$: Diameter of the fifty-fifth vertical section.
 - $D56$: Diameter of the fifty-sixth vertical section.
 - $D57$: Diameter of the fifty-seventh vertical section.
 - $D58$: Diameter of the fifty-eighth vertical section.
 - $D59$: Diameter of the fifty-ninth vertical section.
 - $D60$: Diameter of the sixtieth vertical section.
 - $D61$: Diameter of the sixty-first vertical section.
 - $D62$: Diameter of the sixty-second vertical section.
 - $D63$: Diameter of the sixty-third vertical section.
 - $D64$: Diameter of the sixty-fourth vertical section.
 - $D65$: Diameter of the sixty-fifth vertical section.
 - $D66$: Diameter of the sixty-sixth vertical section.
 - $D67$: Diameter of the sixty-seventh vertical section.
 - $D68$: Diameter of the sixty-eighth vertical section.
 - $D69$: Diameter of the sixty-ninth vertical section.
 - $D70$: Diameter of the seventieth vertical section.
 - $D71$: Diameter of the seventy-first vertical section.
 - $D72$: Diameter of the seventy-second vertical section.
 - $D73$: Diameter of the seventy-third vertical section.
 - $D74$: Diameter of the seventy-fourth vertical section.
 - $D75$: Diameter of the seventy-fifth vertical section.
 - $D76$: Diameter of the seventy-sixth vertical section.
 - $D77$: Diameter of the seventy-seventh vertical section.
 - $D78$: Diameter of the seventy-eighth vertical section.
 - $D79$: Diameter of the seventy-ninth vertical section.
 - $D80$: Diameter of the eightieth vertical section.
 - $D81$: Diameter of the eighty-first vertical section.
 - $D82$: Diameter of the eighty-second vertical section.
 - $D83$: Diameter of the eighty-third vertical section.
 - $D84$: Diameter of the eighty-fourth vertical section.
 - $D85$: Diameter of the eighty-fifth vertical section.
 - $D86$: Diameter of the eighty-sixth vertical section.
 - $D87$: Diameter of the eighty-seventh vertical section.
 - $D88$: Diameter of the eighty-eighth vertical section.
 - $D89$: Diameter of the eighty-ninth vertical section.
 - $D90$: Diameter of the ninetieth vertical section.
 - $D91$: Diameter of the ninety-first vertical section.
 - $D92$: Diameter of the ninety-second vertical section.
 - $D93$: Diameter of the ninety-third vertical section.
 - $D94$: Diameter of the ninety-fourth vertical section.
 - $D95$: Diameter of the ninety-fifth vertical section.
 - $D96$: Diameter of the ninety-sixth vertical section.
 - $D97$: Diameter of the ninety-seventh vertical section.
 - $D98$: Diameter of the ninety-eighth vertical section.
 - $D99$: Diameter of the ninety-ninth vertical section.
 - $D100$: Diameter of the hundredth vertical section.



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