

AS1895 Joint System

Machined coupling and flanges with metallic seal

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Eaton's pneumatic rigid joint products have more than 110 billion cumulative flight hours without a reported field failure when properly installed.



Eaton began manufacturing pneumatic rigid joints in the early 1970s to support the industry's demand for advanced components that could withstand higher-temperature, higher-pressure environments. Today, Eaton products continue delivering superior results for commercial, military, regional and business aircraft.

The AS1895 rigid joint system is designed to connect high-pressure and high-temperature ducting in aircraft and engine pneumatic systems. The system consists of a machined coupling, two machined flanges and a formed metallic seal.

Eaton's system is designed for ducting tube sizes 1" to 7.5" and operates within the temperature range of -65 to +1200°F (-53 to 648°C), per AS1895. Specific selection depends on duct size, pressure, temperature, system loads, materials and other considerations. Eaton's pneumatic rigid joint products are the basis for the AS1895 specification initially released in 1985.

Features:

- Precision-machined products create ideal coupling-to-flanges interface
- Cross-section of products are optimized for strength and weight
- Sealing surfaces are protected by male/female features
- Snap-fit seal simplifies installation

Materials:

- Couplings: Stainless Steel A286 and Inconel® 718
- Flanges: Inconel 625 and Inconel 718
- Seal: Inconel 718

Eaton designs and manufactures products similar in style to the AS1895 and offers additional sizes, materials, profiles and features not covered by AS1895. To learn more about our product offerings, please contact an Eaton representative.

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Product type	Standard profile			Low profile		
Coupling	AS1895/1			AS1895/4		
Seal	AS1895/7 (Eaton's E-Seal™) or AS1895/23 (Eaton's U-Plex™)					
Flange, Male	AS1895/2	AS1895/10	AS1895/18	AS1895/5	AS1895/8	AS1895/16
Flange, Female	AS1895/3	AS1895/11	AS1895/19	AS1895/6	AS1895/9	AS1895/17
Flange weld Interface type	Seam	Butt	Integral	Seam	Butt	Integral

Tube OD, inches	Standard profile			Low profile		
	Joint Length, inches (nominal)	*Joint Weight, lbs (max)	Coupling Weight, lbs (max)	Joint Length, inches	Joint Weight, lbs max	Coupling Weight, lbs (max)
1.00	N/A	N/A	N/A	1.398	0.510	0.34
1.25					0.531	0.34
1.50	1.072	0.40	0.582		0.35	
1.75	1.164	0.41	0.614		0.36	
2.00	1.275	0.42	0.675		0.38	
2.25	1.396	0.44	0.706		0.39	
2.50	1.517	0.46	0.757		0.40	
2.75	1.648	0.49	0.808		0.42	
3.00	1.789	0.51	0.869		0.43	
3.25	1.921	0.54	0.941		0.44	
3.50	2.052	0.57	0.992		0.45	
4.00	2.334	0.63	1.084		0.48	
4.50	2.597	0.67	1.247		0.54	
5.00	2.889	0.72	1.359		0.59	
5.50	3.141	0.77	1.471		0.62	
6.00	3.423	0.81	1.593		0.66	
6.50	3.715	0.86	1.745		0.73	
7.00	4.028	0.93	1.848		0.77	
7.50	4.321	0.98	1.961		0.80	

Note: *Values are derived from AS1895 specification and denote a joint system consisting of a coupling, butt weld flanges, and AS1895/23 seal for each tube OD. AS1895/1 is A286 material shown; AS1895/1E specifies Inconel® 718

Basic ordering instructions:

Example: AS1895/4-200 coupling, AS1895/8-200 & AS1895/9-200 flanges & AS1895/23-200 seal

Please refer to the specific AS1895/X document(s) for details and more complete part numbering schemes or contact an Eaton representative for assistance.

AS1895/ X - DDD Z

- *BLANK = No fool proof feature, S = Fool proof safety latch, T = Fool proof safety latch with Tab
- Tube size, Example: 250 = 2.50 in Diameter tube
- *Self-locking nut finish: "-" (a dash) = Silver plate and "L" = Dry film lubricant
- *Material type for /1: "-" (a dash) = A286 and "E" = Inconel 718
- Slash number associated with the product type, example: "4" for low profile coupling or "10" for flange, male, butt weld
- Basic AS1895 part number (including the "/")

* - applies to Couplings Only

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For more information about Eaton's AS1895 products and other related joint system products, please contact an Eaton Representative.

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