

ISO

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION

ISO RECOMMENDATION R 1799

DIMENSIONS OF ELASTOMERIC TOROIDAL SEALING RINGS
FOR PIPE-FITTINGS IN AIRCRAFT

(INCH SERIES – CLASS 2 TOLERANCES)

1st EDITION

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**DIMENSIONS OF ELASTOMERIC TOROIDAL SEALING RINGS
FOR PIPE-FITTINGS IN AIRCRAFT**

(INCH SERIES – CLASS 2 TOLERANCES)

1. SCOPE

This ISO Recommendation states the dimensions and a method of designation for a range of elastomeric toroidal sealing rings in inch sizes with Class 2 tolerances, suitable for use with pipe-fittings screwed into tapped bosses conforming to the dimensions stated in an ISO Recommendation at present in preparation. It does not make reference to materials to be used for the rings. Rings with Class 1 tolerances are the subject of ISO Recommendation R 1077, *Dimensions of elastomeric toroidal sealing rings for pipe-fittings in aircraft (Inch series – Class 1 tolerances)*.

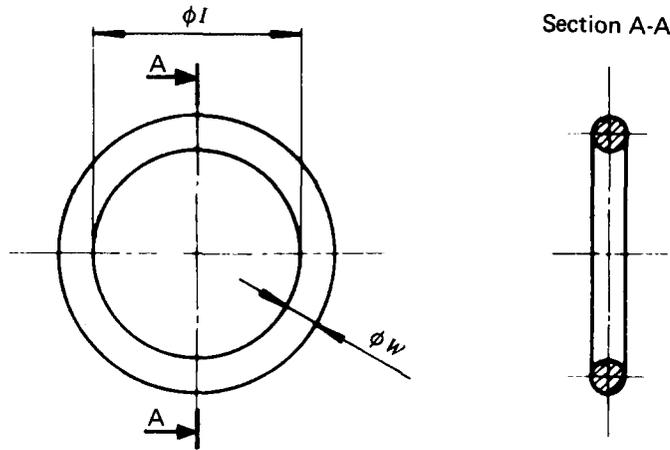
2. DIMENSIONS

The dimensions of toroidal sealing rings for use with pipe-fittings screwed into tapped bosses should comply with the Table opposite.

3. DESIGNATION

The sealing rings should be designated by the ring size numbers quoted in the Table opposite.

TABLE - Dimensions of elastomeric toroidal sealing rings for pipe-fittings in aircraft
(Inch series - Class 2 tolerances)



Ring size	Nominal overall diameter of tubing		φ W				φ I			
			mm		in		mm		in	
	mm	in	max.	min.	max.	min.	max.	min.	max.	min.
901	2.383	0.0938	1.499	1.346	0.059	0.053	4.85	4.55	0.191	0.179
902	3.175	0.125	1.702	1.549	0.067	0.061	6.25	5.89	0.246	0.232
903	4.763	0.1875	1.702	1.549	0.067	0.061	7.82	7.47	0.308	0.294
904	6.350	0.250	1.905	1.753	0.075	0.069	9.09	8.74	0.358	0.344
905	7.938	0.3125	1.905	1.753	0.075	0.069	10.69	10.34	0.421	0.407
906	9.525	0.375	2.057	1.905	0.081	0.075	12.06	11.71	0.475	0.461
907	11.113	0.4375	2.159	2.007	0.085	0.079	13.64	13.28	0.537	0.523
908	12.700	0.500	2.286	2.134	0.090	0.084	16.59	16.13	0.653	0.635
909	14.288	0.5625	2.540	2.388	0.100	0.094	18.16	17.70	0.715	0.697
910	15.875	0.625	2.540	2.388	0.100	0.094	19.41	18.95	0.764	0.746
911	17.463	0.6875	3.048	2.845	0.120	0.112	22.15	21.69	0.872	0.854
912	19.050	0.750	3.048	2.845	0.120	0.112	23.70	23.24	0.933	0.915
913	20.638	0.8125	3.048	2.845	0.120	0.112	25.30	24.79	0.996	0.976
914	22.225	0.875	3.048	2.845	0.120	0.112	26.87	26.37	1.058	1.038
916	25.400	1.000	3.048	2.845	0.120	0.112	30.00	29.49	1.181	1.161
918	28.575	1.125	3.048	2.845	0.120	0.112	34.72	34.11	1.367	1.343
920	31.750	1.250	3.099	2.896	0.122	0.114	37.82	37.11	1.489	1.461
924	38.100	1.500	3.099	2.896	0.122	0.114	44.04	43.33	1.734	1.706
928	44.450	1.750	3.099	2.896	0.122	0.114	53.54	52.63	2.108	2.072
932	50.800	2.000	3.099	2.896	0.122	0.114	59.82	58.90	2.355	2.319