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ISO

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION

**ISO RECOMMENDATION
R 102**

GRAVITY FILLING ORIFICES FOR AIRCRAFT

1st EDITION

February 1959

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BRIEF HISTORY

The ISO Recommendation R 102, *Gravity Filling Orifices for Aircraft*, was drawn up by Technical Committee ISO/TC 20, *Aircraft*, the Secretariat of which is held by the British Standards Institution (B.S.I.).

This ISO Recommendation is based on proposals made by the United Kingdom Member Body and adopted at the second and third meetings of the Technical Committee, held in Paris, in October 1952, and in Amsterdam, in November 1953.

The following Member Bodies took part in these meetings:

Belgium	Italy	Switzerland
France	Netherlands	United Kingdom

At the Paris meeting, observers attended from —

International Air Transport Association (IATA),
International Civil Aviation Organization (ICAO).

On 31 October 1956, the Draft ISO Recommendation proposed by ISO/TC 20 was distributed to all the ISO Member Bodies and was approved, subject to some minor amendments, by the following 22 (out of a total of 38) Member Bodies:

*Belgium	Italy	Romania
Bulgaria	Japan	Spain
*Finland	*Mexico	*Sweden
France	Netherlands	*Union
Germany	*New Zealand	of South Africa
*Greece	Pakistan	United Kingdom
India	Portugal	U.S.A.
Ireland		Yugoslavia

No Member Body opposed the approval of the Draft.

The Draft ISO Recommendation was then submitted, by correspondence, to the ISO Council, which decided, in February 1959, to accept it as an ISO RECOMMENDATION.

* These Member Bodies stated that they had no objection to the Draft being approved.

GRAVITY FILLING ORIFICES FOR AIRCRAFT

The minimum internal diameters of orifices used for the gravity filling of aircraft with fuel, lubricants and other liquids are as follows:

Filling orifices	Minimum internal diameter	
	Millimetres	Inches
Fuel	63	2 ½
Lubricants	50	2
De-icing fluids	44	1 ¾
Drinking water	44	1 ¾
Hydraulic fluids	38	1 ½
Coolant	38	1 ½
Methanol-water	38	1 ½

These dimensions are not intended to relate to small private aircraft.