

ISO

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION

ISO RECOMMENDATION R 1023

HIGH PRESSURE AIR CHARGING VALVES FOR AIRCRAFT

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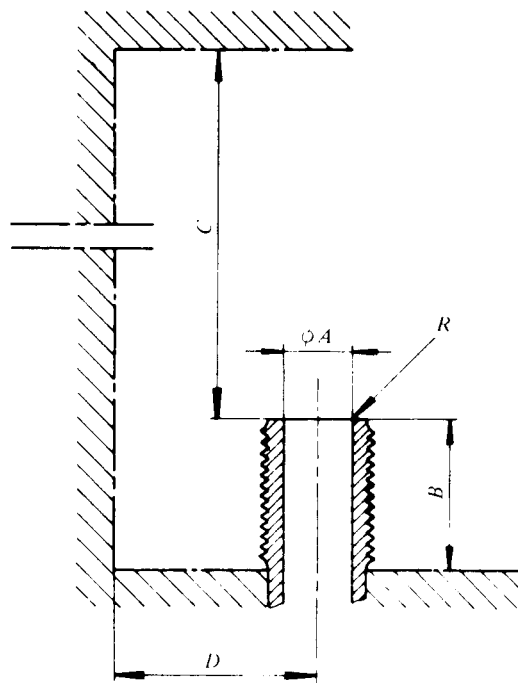
HIGH PRESSURE AIR CHARGING VALVES FOR AIRCRAFT

1. SCOPE

This ISO Recommendation states the requirements for valves for high pressure air charging for aircraft.

2. REQUIREMENTS

The valves should conform to the dimensions shown in Figures 1 and 2 and should be provided, at the coupling end, with an external thread 7.747/7.620 mm diameter, 0.794 mm pitch (0.305/0.300 inch diameter, 32 threads per inch) of the Système International (SI) 60° angle thread form.

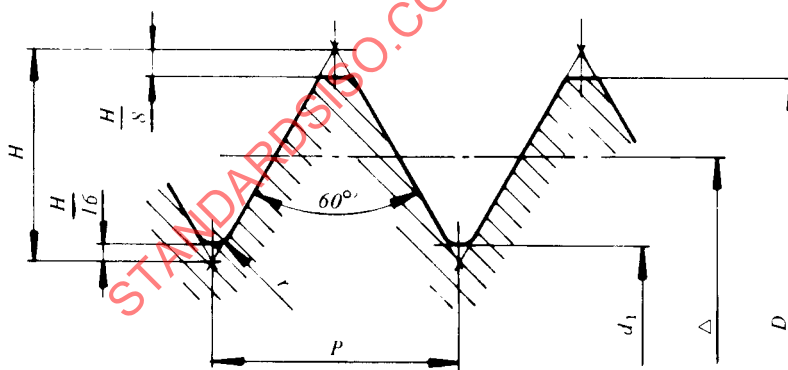


Connecting plane :
Tolerance on straightness 0.01 mm (0.004 in)

Dimension	millimetres	inches
A	$4.6^{+0.4}_0$	$0.18^{+0.02}_0$
B	11 min.	0.4 min.
C	70 min.	2.75 min.
D	15 min.	0.6 min.
R*	0.2 approx.	0.008 approx.

* Radius free from burrs to form a smooth bearing surface.

FIG. 1 - Joint dimensions



Dimensions in millimetres

SI Profile

$$H = 0.866 P$$

$$\frac{H}{16} = 0.054 P$$

$$r = 0.054 P$$

Diameter D		Number of threads per inch	Pitch P	Height of basic triangle H	Clearance $r = \frac{H}{16}$	Minor diameter d_1		Effective diameter Δ	
max.	min.					max.	min.	max.	min.
7.747	7.620	32	0.794	0.687	0.043	6.630	6.503	7.232	7.105

FIG. 2 - Thread dimensions and tolerances