

# ISO

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION

## ISO RECOMMENDATION R 1023

HIGH PRESSURE AIR CHARGING VALVES FOR AIRCRAFT

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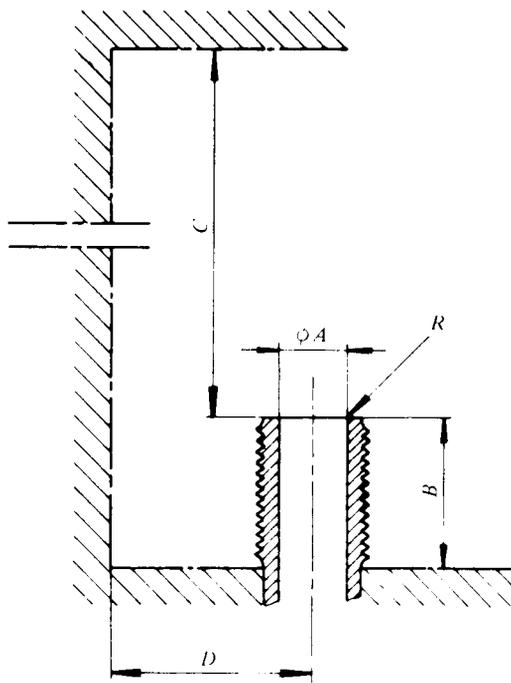
## HIGH PRESSURE AIR CHARGING VALVES FOR AIRCRAFT

### 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.

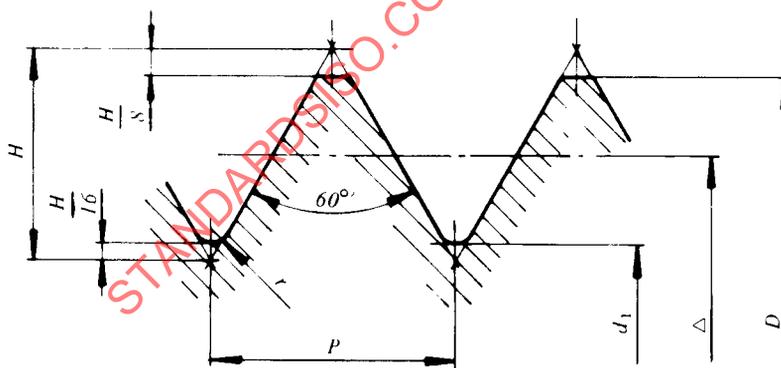


Connecting plane :  
Tolerance on straightness 0.01 mm (0.004 in)

Dimension	millimetres	inches
A	4.6 <sup>+0.4</sup> <sub>0</sub>	0.18 <sup>+0.02</sup> <sub>0</sub>
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 <sub>1</sub>		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