

Rapid Decompression Port (RDP)

U R Rao Satellite Centre (URSC) of Indian Space Research Organization (ISRO) has developed Rapid Decompression Port (RDP) for protection during air shipment of sensitive elements. It is implemented in the transportation container used for carrying spacecraft. RDP offers pressure equalization in the event of Emergency (rapid decompression) that causes sudden depressurization at the cargo compartment at cruise flight altitude during air transportation.



Salient Features

- ✦ Meets requirement of IATA standards.
- ✦ Passive, Reliable and cost-effective solution.
- ✦ Easy to reset for subsequent transportation.
- ✦ Transportation Containers can be optimised for lighter design as RDP relieves at low differential pressure condition.

Major Specifications

✦ Relief Pressure	: 50 milli bar
✦ Flow area	: 700 mm x 300mm
✦ Response time to depressurisation	: Approx. 10 milli second
✦ Mass	: 45.0 kg

Technology Transfer

URSC-ISRO offers to transfer Rapid Decompression port technology by URSC to industries in India with adequate experience and facilities. Industries interested in obtaining knowhow may write giving details of their present activities, infrastructure and facilities.

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🌐 <https://www.ursc.gov.in/industry/index.jsp>