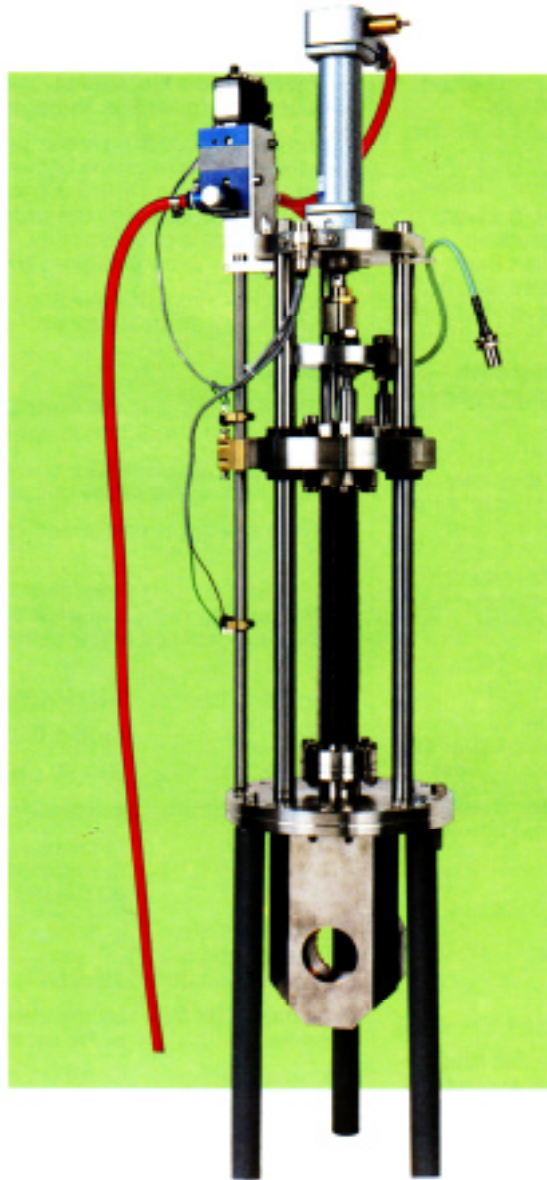


# Compressed Air Actuated High Vacuum Feedthrough (cooled version)

Type DL 910



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# **COMPRESSED AIR ACTUATED HIGH VACUUM FEEDTHROUGH (COOLED VERSION)**

## **TYPE DL 910**

### **Application:**

The subject feedthrough unit is provided for a 'move-in' and 'move-out' motion of elements in a high vacuum system. Cooling water pipes are fed through the hollow piston of the actuator. The design of the DL 910 is based on a relatively light frame, but the broad base provides good stability. A high degree of accuracy is achieved via ball sleeves.

**NOTE:** As an option, this feedthrough can also be actuated via a stepping motor.

### **Principle:**

The moving parts of the feedthrough are guided by three sliding columns. The element to be moved is attached at the end of the compressed air actuator stem. Vacuum sealing is achieved by a membrane bellows. Cables and cooling pipes can be fed through the hollow moveable rod. Limit switches are provided to show the position of the element.

### **Technical Specifications:**

#### **Materials:**

<b>Inside Vacuum</b>	:	Stainless steel
<b>Outside Vacuum</b>	:	Nickel-plated mild steel
<b>Supporting flange</b>	:	CF-150 (6 inches)
<b>Stroke</b>	:	3.15 ± 0.01 inches
<b>Pressure</b>	:	60 - 90 psi
<b>Locking</b>	:	In the event of pressure failure, the elements remain clear of beam line.
<b>Damping (of 'in' and 'out' movement)</b>	:	Adjustable
<b>Adjustment of actuator shaft</b>	:	By variable tilt of mounting plate.
<b>Vacuum sealing</b>	:	Conflat membrane bellows
<b>Leak rate (maximum)</b>	:	10 <sup>-9</sup> Torrs x liter/second

**NOTE:** Upon request, this feedthrough can be offered with other flange systems, as well as other stroke adaptation, as a standard feature.