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# Technical News Bulletin

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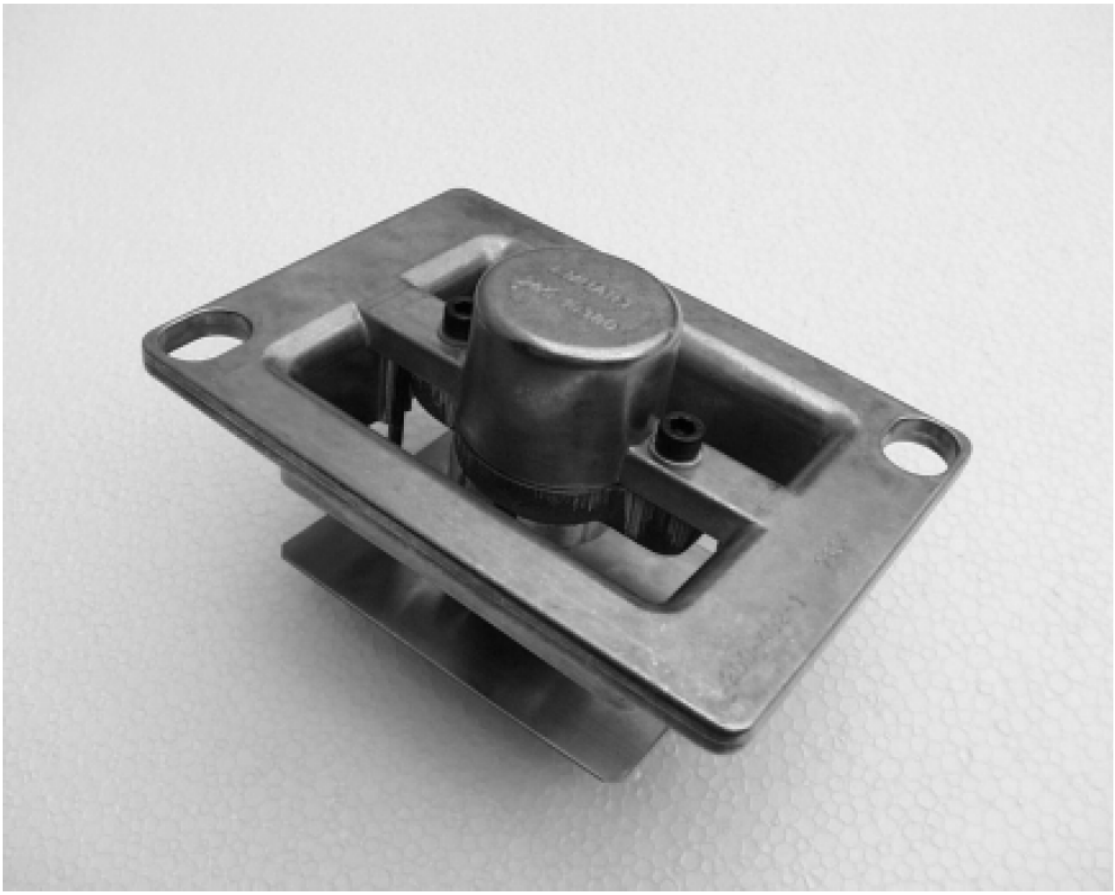

## On/Off Control Mechanism Now for all Type IS Machines

– Enhanced performance through genuine, reliable simple design
– Directly interchangeable with previous products.
– Rated for cooling air pressures up to 1’500 mm WC.

## Introduction

Enhanced performance through genuine, reliable simple design (Patent pending). This is the characteristic of the new cooling air ON/OFF Control Mechanisms for the cooling stacks of the Type IS machines of all center distance configurations.

## System Description

The ON/OFF Control Mechanism consists of only 5 main parts (Fig 1): the body, a precision die casting, a cylinder, a sealing plate attached directly to the piston & rod and a strap.

The piston is spring operated to maintain the sealing plate in the closed position and pneumatically operated for cooling air ON. End of stroke cushioning of piston down is by means of an O-ring. In the absence of a piston ring this O-ring serves also as a seal to prevent pressure loss in the cylinder. The sealing plate is designed as a flat spring which acts against the concave lower surface of the body frame. This cushions the impact and provides at the same time a good seal.

The strap guides the plate to prevent it from twisting and interfering with the plunger hoses.

The air flow rate measured with the new ON/OFF Control mechanism surpasses that of the previous mechanisms by up to 30%, depending on the location and obstructions within the section frame.

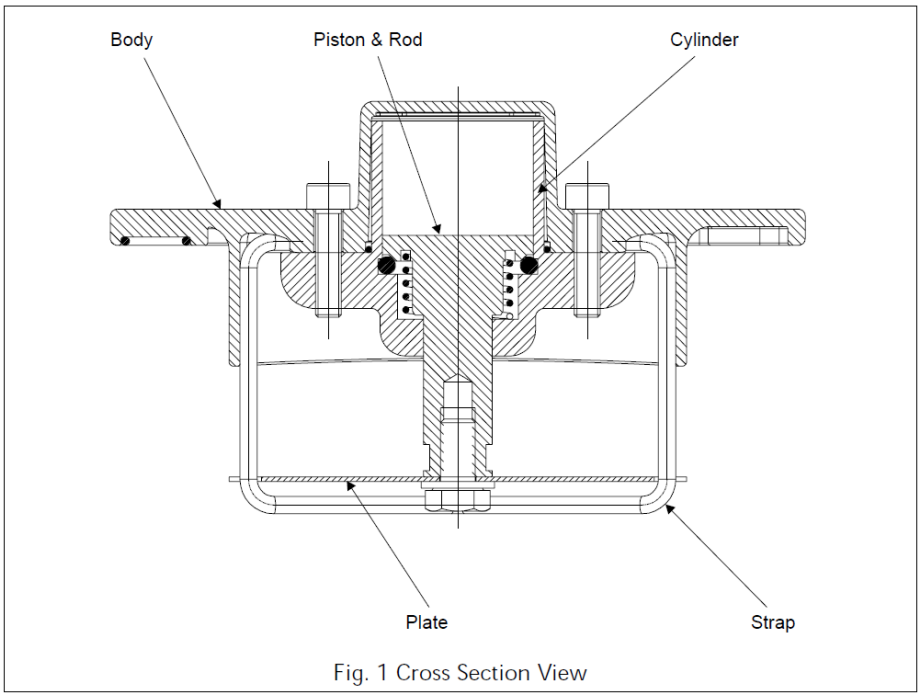

Fig. 1 Cross Section View

## Installation

The new ON/OFF Control Mechanisms are a direct replacement for the previous mechanisms and can thus be installed without the need of any alteration to the section frame. On sections having previously ”normally open” mechanisms installed, the corresponding ”NO” cartridge valve in the electro-pneumatic valve block must be replaced by an ”NC” cartridge valve.

## Operation

The new ON/OFF Control Mechanisms are designed to meet the following specification:

| | |
|---|---|
| Cooling air pressure, maximum: | 1’500 mm WC |
| Operating air pressure: | 2.1 bar |
| Operating air quality: | Class 4 ISO 8573 |
| Lubrication: | Not required |

## Specification

The new ON/OFF Control Mechanisms are designed to be operated on blank and blow side cooling stacks as specified below:

| Machine Type | Position | ON/OFF Control Mechanism | |
|---|---|---|---|
| | | New Part No. | Superseded Part No.* |
| E & EF 4-1/4 | Blank & Blow Side | 200-402-1 | 191-9012 & 200-294 |
| E & EF 5” | Blank & Blow Side | 200-402-1 | 191-9012 & 200-294 |
| F & EF 5-1/2 | Blank Side LH | 200-477-1 | 23-1414 & 23-1734 |
| | Blank Side RH | 200-477-2 | 23-1414 & 23-1734 |
| | Blow Side LH | 200-477-3 | 23-1414 & 23-1734 |
| | Blow Side RH | 200-477-4 | 23-1414 & 23-1734 |
| F & EF 6-1/4 | Blank Side LH | 200-477-5 | 23-1734 & 23-3339 |
| | Blank Side RH | 200-477-6 | 23-1734 & 23-3339 |
| | Blow Side LH | 200-477-3 | 23-1414 & 23-1734 |
| | Blow Side RH | 200-477-4 | 23-1414 & 23-1734 |

* Includes all assembly groups of listed part numbers

The ON/OFF Control Mechanism 200-402-1 has been available since June 1998 while the full range of 200-477 mechanisms will be available by June 1999. The previous type mechanisms have been discontinued and are no

longer supplied as complete units. The type 200-294 and 23-1734 mechanisms are supported with spare parts until the end of the year 2000, respectively 2001. Spare parts for all other superseded mechanisms are no longer available.

## Features / Benefits

- Simple, maintenance free design
- Rated for cooling air pressures up to 1’500 mm WC
- Directly interchangeable with previous products
- Increased air flow