

It is better to prevent than...

SCORPIO

BLOW PRO

a series of devices to prevent raw material leakages from the barrel nozzle

The BLOW PRO series has been created to minimize failure costs and machine downtime caused by raw material leakage in the installation space of mould hot runners



The BLOW PRO series consists of the following devices:

- general controller BLOW MASTER
- measuring unit BLOW PRO-8
- measuring unit BLOW PRO-12
- measuring unit BLOW PRO-16

BLOW of safety



BLOW MASTER controller

BLOW MASTER controller is dedicated to install on a moulding injection machine. It provides a possibility of machine cycle intermitting in case of material leakage.

BLOW MASTER is able to control up to 4 measuring units of any type, chosen by a customer.



Main features of BLOW PRO system:

- up to 64 independently controlled measuring channels
- reliability
- efficiency
- automatic, self-adaptive air supply management
- clear, explicit, precise diagnostics
- minimal maintenance required
- easy DIY assembly on all types of injection moulding machine
- negligible air demand

Measuring units:

PRO-8, PRO-12 and PRO-16 measuring units are dedicated to install permanently on a mould. The type of measuring unit should depend on the number of hot runners on a particular mould.

Every unit is connected to a BLOW MASTER unit via RJ-45 cable and a pneumatic 6 mm hose.

PRO-8



PRO-12



PRO-16



Measuring units control air flow in every capillary pipe independently. In case of any pipe clogging, BLOW MASTER reports the state of alarm and stops the working cycle of injection moulding machine. On the display of BLOW MASTER unit appears a message, which pipe is clogged by raw material.

The device also controls pressure of air supplying the whole system. In case of damage or lack of communication of any measuring unit, BLOW MASTER cuts off air of the broken unit.

B L O W o f s a f e t y



Precise, continuous measurement of air flow in each channel of measuring units allows for effective detection of any undesirable situation and the control system responds immediately to any operating irregularities.

BLOW MASTER allows for alarm signal control and has a possibility to stop the injection moulding machine work by means of non-potential contacts.

All BLOW series devices have been designed and produced by SCORPIO in reply to our customers' expectations regarding frequent problems with the effects of raw material leakages from hot runner moulds.

Air flow speed is significantly reduced, so there is no risk of leaked raw material cooling and the effect of "flowing around" the control tube.

The device operates properly with air pressure of the range of 2-8bar. Air consumption depends on the number and the type of measuring units. In the full set it does not exceed 20 litres per minute.

Each device of BLOW PRO series is equipped with neodymium magnets, that simplify fixing them on a machine (BLOW MASTER) or on a mould (BLOW PRO units). Furthermore, each BLOW PRO unit is equipped with magnetic holders placed on the top of its enclosure, that provide stable and firm mechanical connection with one another.



OPTION:

BLOW MASTER is equipped in option with an external light and sound indicator, especially useful, when connecting a signal, that stops machine operation is difficult or impossible.

All the parts necessary for installing are delivered to the customer as a DIY set. It can be easily and quickly assembled on all types of injection moulding machines. No special tools needed.

BLOW PRO installing set consists of:

- the set of thin, copper capillary pipes (with a diameter of 0,7-1,9mm and 3m long), one pipe for each measuring channel.
- special, temperature resistant (up to 300°C) adhesive tape (5m), that allows of fixing capillary pipes inside the mould installation chamber of hot runners.
- metal tighten bands (2 pieces for each channel) for safe placing pipes inside the installation chamber of the mould.

BLOW MASTER controller installing kit consists of:

- electrical interface cable for connecting BLOW MASTER with an injection moulding machine
- 24V power supply
- RJ-45 cables, each of 3m length (4 pieces)
- PU pneumatic hose (4 pieces)



Simplicity of construction and unusual, innovative solutions allowed us to create a perfect device at a very reasonable price.



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