

**TO SEE AT GIFA 2023:
FONDAREX HYDRAULIC
VACUUM VALVE, THE FUTURE
BECOMES REALITY**

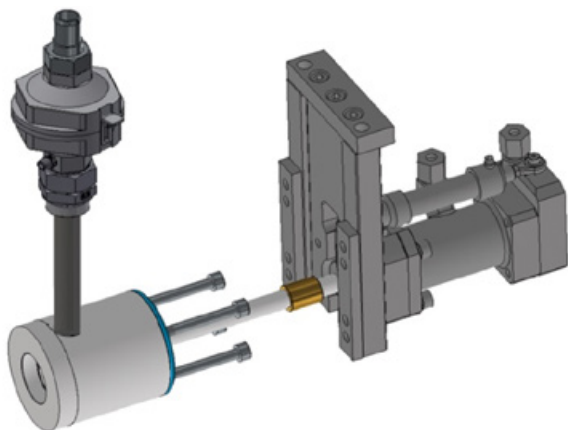
To all foundry people,

The world of DIE CASTING is constantly evolving.

Foundries have always looked for new solutions to satisfy their customers in terms of quality of their manufactured parts.

Fondarex has been supporting its customers for decades to ensure a reliable and economical vacuum production process and to improve the quality of moulded parts.

Since more than a year ago, FONDAREX has introduced a brand new state-of-the-art hydraulic valve.



**TO DATE, 100% OF THE USERS
OF OUR HYDRAULIC VALVE ARE
SATISFIED WITH THE RESULTS.**

**TO ACHIEVE THIS RELIABILITY,
SEVERAL INNOVATIONS AND
TECHNOLOGICAL CHOICES WERE
MADE DURING THE STUDY:**

- FONDAREX takes control of the control of the hydraulic valve. This avoids major modifications of the DCM software.
- In order to avoid as much as possible unwanted aluminium filling of the valve, we check at every moment the position of the valve by a POSITION TRANSDUCER when closing but also when opening the device.
- We are therefore able to set the alarm on our system in the event that the valve remains open by 0.1 mm if, for example, an alloy particle prevents the valve from being fully closed. That would not be achievable with a traditional end-stop giving only two electric states.
- In addition, we control the hydraulic and mechanical response times of the process. This monitoring allows to anticipate a malfunction and to establish a diagnosis relevant for maintenance.

**FOR EXAMPLE,
IF A MALFUNCTION OCCURS,
IT IS POSSIBLE TO DETERMINE
THE REASON BY ANALYZING
THE HYDRAULIC (HYD) AND
MECHANICAL (MEC)
RESPONSE TIMES DISPLAYED
ON THE SCREEN.**



**„ONLY FONDAREX CARRIES
OUT THESE CHECKS, WHICH
WE HAVE NOTICED FROM
OUR CUSTOMERS’ FEEDBACK
IS COMPELLING.“**

FONDAREX can establish upon your request a standard quote or offer you a complete system, adapted to your request, that will perfectly meet your technical needs whatever the mould.

We have developed our product so that it can also replace an existing valve in a mould and managed by the press.

- On the HMI screen shot above, we see a graph showing the displacement curves of the hydraulic valve. The valve performance is thus visualized at a glance.
- Maintenance is reduced to changing the position transducer, valve stem and hydraulic cylinder seals. In the first two cases, this intervention would take only a few minutes thanks to the automatic calibration of the device and the quick coupling of the valve rod.
- When mounting FONDAREX hydraulic valve in the mould or when there is a change of mould, no adjustment is required in the mould as required by the hydraulic valves of our competitors. Simply start the valve calibration, no extra tools required. This operation takes only 3 minutes and the device is ready to start production.

**WE INVITE YOU TO VISIT
OUR BOOTH AT GIFA
TO EXPLAIN IN DETAIL
THE PROWESS OF
OUR HYDRAULIC VALVE
AND ITS ADVANTAGES FOR
YOUR PRODUCTION.**



BOOTH 11-F60

If you would like to get more information contact our team members at sales@fondarex.com