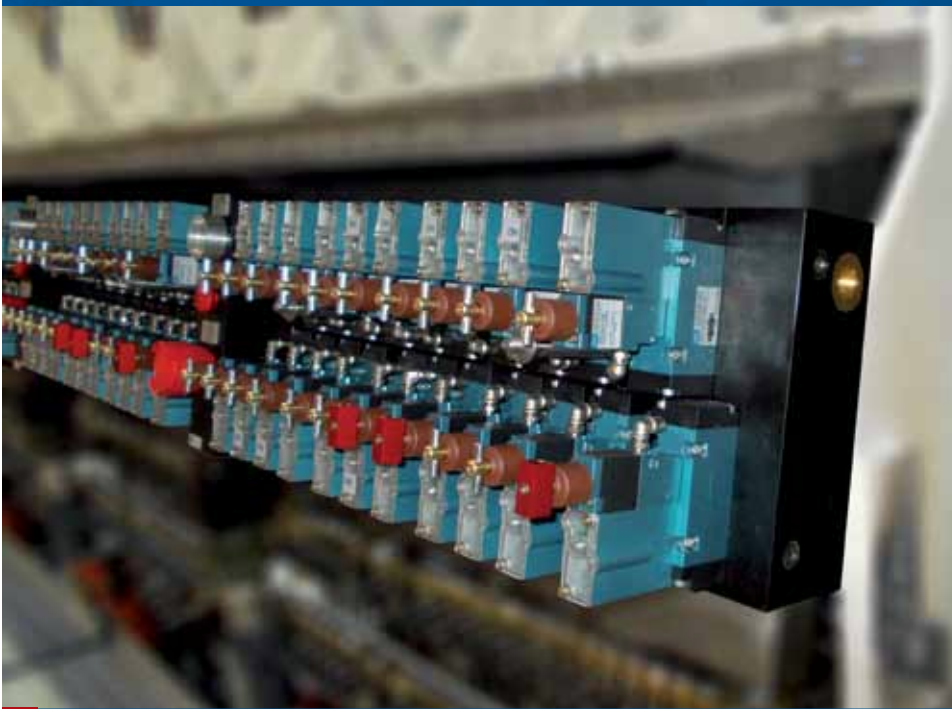


The **MAC** GLASS Gazette

October 21st, 2013



MAC Valves is releasing a breakthrough technology 21 line valve block reducing blank mould operator distance.

This block includes the legendary MAC Valves 54 series with an innovative 3 position manual override.



MAC Valves introduces a 100% drop in replacement for individual solenoids for 26 line valve blocks featuring all the latest MAC Valves innovation, such as the spool design and the bullet valve™ pilot.

A diagnostic port has been added to monitor correct operation of the unit.



In exactly 12 months, MAC Valves and its Distributors (the MDN- MAC DISTRIBUTOR NETWORK) will return to Düsseldorf for Glasstec 2014.

See you then in Düsseldorf from Oct 21st to Oct 24th, 2014. We are looking forward to meeting you there.

PRESS THE RED BUTTON FOR MORE INFORMATION :



The MAC Valves Glass Gazette is MAC Valves Newsletter for the Glass Industry ■ TO FIND YOUR LOCAL DISTRIBUTOR, VISIT WWW.MACVALVES.COM
Wixom, MI, USA – Liège, Belgium – Taoyuan, Taiwan – Penrose, Auckland, New Zealand ■ Date : October 21st, 2013





NEW GENERATION 21 LINES

For Electro-Pneumatic Valve Block on IS Machines

- 100% drop in solution for replacement of conventional cartridge / pilot block.
- Quick-and-easy exchange feature.
- Strong resistance to contamination.
- High flow characteristics (5000 NI/min per valve).
- Highly reliable, accurate switching, increased reliability.
- Designed to work in harsh environments.
- Ergonomic design for easier maintenance operations - Reduced blank mould operator distance.
- Less downtime - Increased production.
- NC/NO colour distinction.
- 3-position manual override facing the operator on the valve block.
- Green LED facing the operator on the valve block.
- 15° inclined position for better ergonomoy.



CUSTOMER BENEFITS

- | | |
|--|--|
| <ul style="list-style-type: none"> ✓ Standard IS machine dimensions - direct installation on to the existing speed control bar. ✓ 3/2-way valve with the new technology patented 4-way pilot develops maximum shifting forces both ways. ✓ Balanced design for high flow, high speed and high consistency (<i>Not sensitive to pressure variations</i>). ✓ All valves with LED indicators facing the operator. ✓ Short stroke with the highest flow on the market (<i>up to 5000 NI/min per valve</i>) in a compact package. ✓ Spool technology eliminates use of cartridges. ✓ Robust positive manual override. ✓ Proprietary high temperature seals for long life time, resistance to high temperature and aggressive lubrication. ✓ Robust 3-position manual override (locked - neutral - on). | <ul style="list-style-type: none"> ✓ Burn-out proof MAC solenoid, life time guarantee on coils. ✓ 100 million cycles (<i>est.</i>) MTBF life time. ✓ 100% interchangeable with existing solution. ✓ All types of electrical connectors available. ✓ Plug in solution - internal wiring (<i>inside the manifold</i>) no flying leads or open tabs. ✓ Colour coded valve body to easily identify normally closed and normally open valves (Red = NC / Blue = NO). ✓ Reduced blank mould operator distance. ✓ Protective cover including operating, start and stop buttons, available on request. ✓ Repair kit available for the complete valve. |
|--|--|



MAC Valves - Highly engineered solutions for the highest performing applications since 1948



MAC Valves Inc, Wixom, Michigan - MAC Valves Inc, Dundee, Michigan
MAC Valves Europe Inc, Liège, Belgium - MAC Valves Asia Inc, Taiwan

To find your **local** distributor, visit www.macvalves.com





NEW GENERATION 21 LINES

For Electro-Pneumatic Valve Block on IS Machines

TECHNICAL DATA

Fluid:	Compressed air, vacuum, inert gases
Pressure range :	External pilot 0 to 8 bar / 0 to 120 PSI
Pilot pressure :	2,5 to 8 bar / 37.5 to 120 PSI
Lubrication :	Not required if used select a medium aniline point lubricant (between 80°C and 100°C / 176°F and 212°F)
Filtration :	40 µ
Temperature :	-18°C to + 80°C / 0°F to 176°F
Orifice :	13,5 mm / 0.53 in
Flow (at 6 bar, Δ P=1bar):	5000 NI/min / Cv 5.0 (per valve)
Coil:	Epoxy encapsulated - class F wires - long energization
Voltage range:	-15% to +10% of nominal voltage
MOD. EM87:	Viton seals, spool an poppet - High temperature grease - Glass industry manual override design.

MAC SOLUTION - HOW TO ORDER

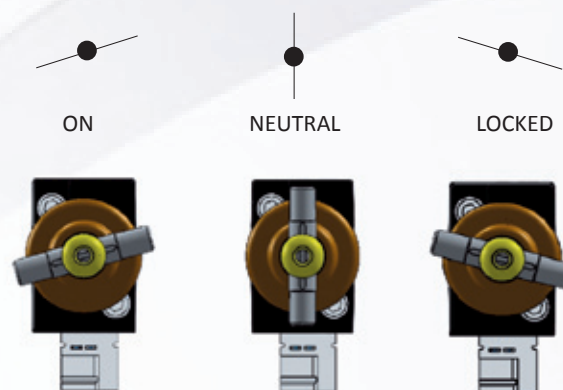
Circuit bar:	CBM054 MOD EXXX (MOD is defined in function of the customer requirements)
Normally closed valve:	54A-CC-000-DP-DEWP-4FM MOD EM87
Normally open valve:	54A-DC-000-DP-DEWP-4FM MOD EM87
Repair kit - NC & NO valves:	K-54001 Mod. 446K

INNOVATIVE FEATURES

15° Inclination Design



3-Position Manual Override



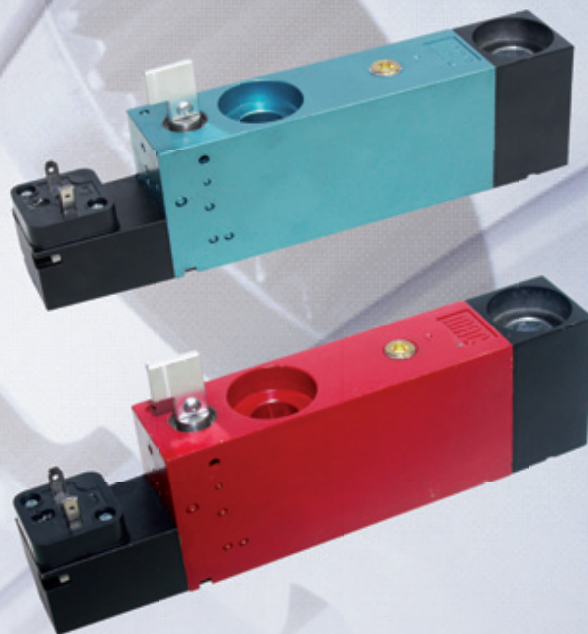
3500 factory certified specialists in over 45 countries focused on optimizing customers needs
To find your **MDN** distributor, visit www.macvalves.com





NEW GENERATION HIGH FLOW Individual Solenoid Valve for 26 Line Blocks

- Drop-in solution.
- High flow characteristics (3000 NI/min) in a very compact package.
- No cartridges - Spool technology for higher flow, less parts, more reliability
- Designed to work in harsh environments.
- MAC technology patented bullet valve pilot for a significant increase of the lifetime.
- High resistance to contamination and pressure variation.
- Highly durable, accurate switching, increased reliability.
- Fast switching response times.
- High temperature modification up to 80°C for complete valve (coil included).
- Less downtime – Increased production.
- Fully repairable solenoid valve.
- Color code to identify NO/NC valves (Red = NO / Blue = NC).
- Diagnostic port on valve body giving direct access into cylinder port for trouble shooting or diagnostic.



INNOVATIVE FEATURES

EN175301-803
Style A connector fully compatible with existing connector on IS equipment

New Technology Bullet Valve™ pilot (replaceable)

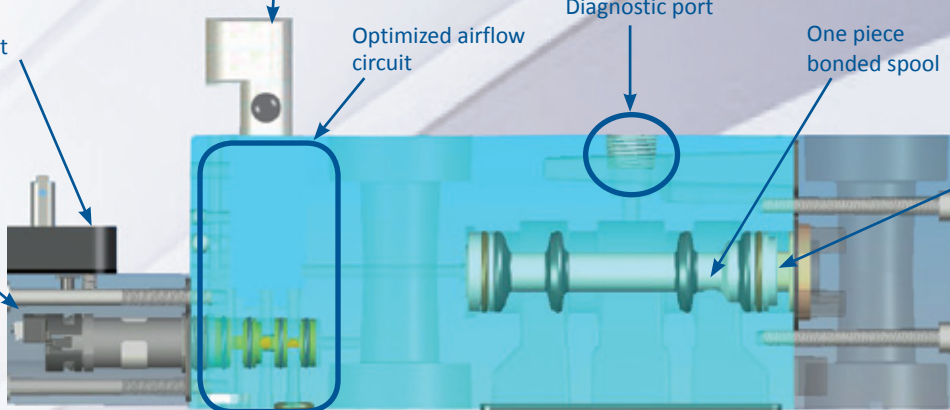
Ergonomic 3-position manual override with tighter set up to reduce leakages

Optimized airflow circuit

Diagnostic port

One piece bonded spool

Air / spring return



FULLY REPAIRABLE UNIT - 100% DROP IN SOLUTION

MAC Valves - Highly engineered solutions for the highest performing applications since 1948



MAC Valves Inc, Wixom, Michigan - MAC Valves Inc, Dundee, Michigan
MAC Valves Europe Inc, Liège, Belgium - MAC Valves Asia Inc, Taiwan

To find your *local* distributor, visit www.macvalves.com





NEW GENERATION HIGH FLOW Individual Solenoid Valve for 26 Line Blocks

CUSTOMER BENEFITS

- ✓ Balanced design for high flow, high speed and high consistency (not sensitive to pressure variations).
- ✓ High flow (3000 NI/min) for safer and better process accuracy.
- ✓ High speed valve: energized: 8 ms - de-energized: 12 ms.
- ✓ Bonded spool with minimum friction, shifting in a glass like finished bore.
- ✓ No lubrication required.
- ✓ Wiping effect eliminates sticking.
- ✓ Proprietary high temperature seals for long life time, resistance to high temperature and aggressive lubrication.
- ✓ High temperature modification for solenoid.
- ✓ Burn out proof MAC solenoid, life time guarantee on coils.
- ✓ 3-position manual override facing the operator on the valve block.
- ✓ 100 million cycles (est) MTBF life time.



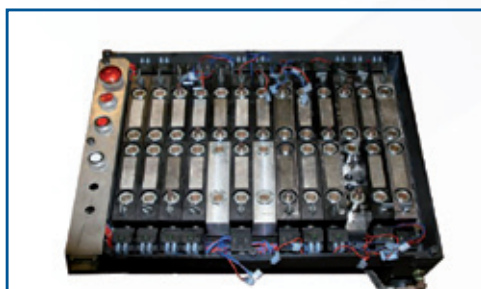
TECHNICAL DATA

Fluid:	Compressed air, vacuum, inert gases
Pressure range:	External pilot 0 to 8 bar / 0 to 120 PSI
Pilot pressure:	2,5 to 8 bar / 37.5 to 120 PSI
Lubrication:	Not required if used select a medium aniline point lubricant (between 80°C and 100°C / 176°F and 212°F)
Filtration:	40 µ
Temperature:	-18°C to + 80°C / 0°F to 176°F
Flow (at 6 bar, Δ P=1bar):	3000 NI/min - Cv 3.0
Coil:	Epoxy encapsulated - Class F wires - Long energization
Voltage range:	-15% to +10% of nominal voltage
MOD. EM76:	Viton seals, spool and poppet - High temperature grease - Glass industry manual override design

MAC SOLUTION - HOW TO ORDER

Normally closed valve:	EMA-A1B-BV3-BFE0-CTR Mod. EM76
Normally open valve:	EMA-A2B-BV3-BFE0-CTR Mod. EM76
Pilot valve:	BV310A-CD1-00-BFEA-CTA Mod. 8468
Repair kit:	Consult factory

ILLUSTRATION



Previous solution



MAC Solution in situ



3500 factory certified specialists in over 45 countries focused on optimizing customers needs
To find your **MDN** distributor, visit www.macvalves.com

