

Technical News Bulletin

Cham, July 2019

Next generation butterfly valve for Blow Mold Cooling mechanism through the bed

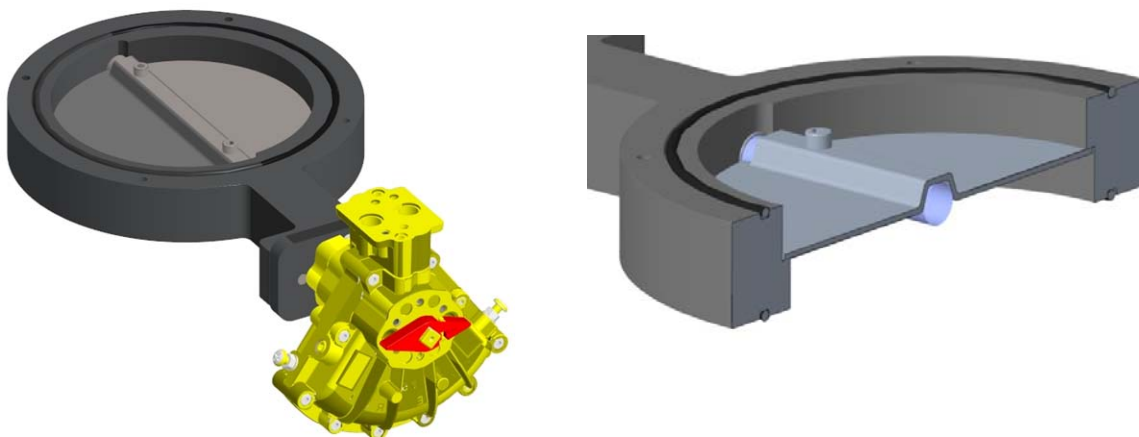
Introduction

An optimal air supply for the Blow Mold Cooling Mechanism is a key element for a forming machine. The latest generation butterfly valve is designed to guarantee performance, reliability, robustness and repetitiveness.

The new butterfly valve is designed to suit all the forming machines applications and is available for IS, AIS, NIS and BIS machines.

The butterfly valve assembly includes a new rotary actuator and a redesigned flap with improved labyrinth sealing.

The operating air for the rotary actuator is integrated in the valve body through the Namur interface and provides an opening time of 150 ms (operating air pressure: 3.1 bar).



The 3.1 bar air consumption of the butterfly valve is 0.226 liters/cycle against 0,8 liters/cycle for the previous actuator. This approximately corresponds to 72% in savings on compressed air.

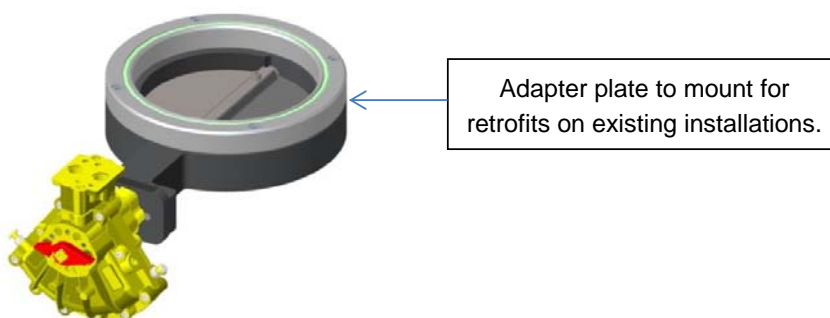
Specification

The butterfly valve assembly is available for sale with part number **59-28097** which comprises the butterfly valve and the rotary actuator. (The pilot valve is not part of the assembly)

The spare rotary actuator is available for sale with part number **59-28098**.

The actuator vane seal kit is available for sale with part number **59-28099**.

For a direct replacement of the butterfly valve on an existing machine the replacement kit 210-2210-1 is needed.



The existing VertiFlow cooling ducts are replaced by new numbers as shown in the below selection chart.

VertiFlow cooling duct configuration				
VertiFlow cooling duct type	Namur Pilot valve type	Flap type	Previous Part Number	New Part Number
Square Side or Bottom entry	Solenoid	Conventional	200-1631-3	200-1631-9
Square Bottom entry	Solenoid	Conventional	200-1631-4	200-1631-10
Square Side or Bottom entry	Solenoid	Soft sealing	200-1631-5	200-1631-9
Square Bottom entry	Solenoid	Soft sealing	200-1631-6	200-1631-10
Square Side or Bottom entry	Pneumatic	Conventional	200-1631-7	200-1631-11
Square Bottom entry	Pneumatic	Conventional	200-1631-8	200-1631-12
Square Side or Bottom entry	Solenoid	Conventional	210-2156-1	200-2156-5
Round Side or Bottom entry	Solenoid	Soft sealing	200-2156-2	200-2156-5
Round Side or Bottom entry	Pneumatic	Conventional	200-2156-3	200-2156-6
Round Side or Bottom entry	Pneumatic	Soft sealing	200-2156-4	200-2156-7
Round Side or Bottom entry / NIS & BIS	Solenoid	Conventional	400-3262-1	400-3262-3
Round Side or Bottom entry / NIS & BIS	Solenoid	Soft sealing	400-3262-2	400-3262-3

Please note: the new cooling duct part numbers will only apply to new machines that will be equipped with the next generation butterfly valves.

Installation requirements

- The butterfly valve 59-28097 can be installed on all existing IS, AIS, NIS and BIS machines.
- The butterfly valve 59-28097 is fully compatible with the equipment previously used. (by using conversion kit **210-2210-1**).
- Existing cooling duct in the machine bed can be reused.

Features / Benefits

Features	Benefits
Faster and repetitive activation time	Higher efficiency.
Improved flap	Better sealing, less container defects.
Less pilot air consumption	Operating cost saving.
Customer equipment compatibility	No extra transition costs.