AL-BL Dairy valves

The DMN-WESTINGHOUSE AL air lock and BL blow through Dairy valves have been designed for use in the food, chemical and pharmaceutical industries where very high standards apply.

The construction of the valve is designed to avoid bacteriological contamination. All product contact surfaces are in food grade material and smoothly polished.

The Dairy valves are available in 6 sizes covering a capacity range from approximately 2.5 to 58 litre per revolution at 100 % filling.

The valves have a USDA certificate of approval for use in dairy plants.

Product information

The body and end covers are made from AISI 316 stainless steel (DIN 1.4408). The rotor is made from AISI 316L (DIN 1.4404).

Shaft sealing can be glands or air purge.

The standard models are suitable for temperatures up to 80 °C and a pressure up to 2 bar g.

Flame proof and explosion shock resistant versions up to 10 bar g are also available.
The AL and BL Dairy valves are also available in MZC version with centrally placed supporting bars for easy removal of end cover and rotor.

(see also photograph on last page)

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<td>38</td>
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Versions of the BL type are also available with enlarged inlet: 175/200, 200/250, 250/300 and 300/350. Sizes of height and diameter of inlet are different. The second number indicates the size of the inlet flange.

* Standard not pre-drilled  
Standaard niet vorgeboord  
Standard nicht gebohrt  
Standard pas percé

Air purge connection  
Aansluiting luchtdichting  
Luftspülanschluss  
Connexion insufflation d’air

** Technical modifications are possible, dimensions in mm **  
BL.M.04.00.E

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** DIN **

| Type BL | Ltr/rev | ØA | ØB | D | ØC | ØD | E | F | G | H | J | K | L | M | N | NN | ØQ | P | Q | R | S |
|---------|---------|----|----|--|----|----|---|---|---|---|---|---|---|---|---|---|----|----|---|---|---|---|
| 150     | 2.5     | 150| 348| 8xØ23 | 285 | 241.3 | 8xØ22.2 | 12 | 295 | 155 | 110 | 65 | 52 | 72 | 151 | 146 | — | 100 | 110 | 140 | 100 | 154 |
| 175     | 5.5     | 175| 270 | 8xØ23 | 315 | — | — | 14 | 340 | 175 | 130 | 75 | 56 | 72 | 149 | 190 | — | 100 | 130 | 160 | 130 | 190 |
| 200     | 10.5    | 200| 295 | 8xØ23 | 343 | 298.4 | 8xØ22.2 | 14 | 410 | 215 | 160 | 90 | 64 | 84 | 166 | 234 | — | 125 | 160 | 200 | 160 | 230 |
| 250     | 19      | 250| 350 | 12xØ23 | 406 | 361.9 | 12xØ25.4 | 16 | 470 | 245 | 190 | 100 | 69 | 84 | 166 | 284 | 142 | 125 | 170 | 210 | 200 | 274 |
| 300     | 34      | 300| 400 | 12xØ23 | 431.8 | 413.8 | 12xØ25.4 | 21 | 565 | 275 | 225 | 120 | 80 | 185 | 360 | 180 | 125 | 190 | 240 | 260 | 350 |
| 350     | 58      | 350| 460 | 16xØ23 | 530 | 476.2 | 12xØ28.6 | 26 | 665 | 335 | 270 | 132 | 87 | 190 | 420 | 210 | 125 | 220 | 270 | 310 | 410 |

** ANSI **

| Type BL | T | U | V | W | X | Y | Z | AA | BB | CC | DD | EE | FF | GG | HH | JJ | KK | LL | MM | ZZ |
|---------|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|
| 150     | 462 | 3xM6 | 4xM10 | 4xØ12 | 1/2"(Ø10) | 90 | UNIF 1 1/8" | 37.1 | 37.1 | 52.5 | 8 | 30 | 33 | 35 | 120 | 95 | — | 35 | 50 | 2x12 | 540 |
| 175     | 502 | 3xM6 | 4xM10 | 4xØ14 | 1/2"(Ø10) | 53 | UNIF 1 1/8" | 37.1 | 37.1 | 52.5 | 8 | 30 | 33 | 35 | 140 | 103 | 60.4 | 50 | 65 | 4x12 | 600 |
| 200     | 572 | 3xM8 | 4xM12 | 4xØ18 | 1/2"(Ø10) | 65 | UNIF 1 1/8" | 55.4 | 32 | 64 | 10 | 32 | 35 | 43 | 170 | 114 | 80.3 | 50 | 80 | 4x14 | 700 |
| 250     | 622 | 6xM12 | 6xM12 | 4xØ18 | 1/2"(Ø10) | 75 | UNIF 1 1/8" | 55.4 | 32 | 64 | 10 | 32 | 35 | 43 | 190 | 125 | 100 | 70 | 100 | 4x14 | 775 |
| 300     | 724 | 3xM10 | 6xM12 | 4xØ23 | 1/2"(Ø10) | 95 | UNIF 1 1/8" | 73.6 | 85 | 43.5 | 10 | 38 | 41 | 49 | 230 | 163 | 147 | 100 | 125 | 4x14 | 915 |
| 350     | 794 | 3xM10 | 6xM12 | 4xØ23 | 1/2"(Ø10) | 112 | UNIF 1 1/8" | 73.6 | 85 | 43.5 | 10 | 38 | 41 | 49 | 244 | 152 | 152 | 125 | 150 | 4x14 | 1000 |
DMN-WESTINGHOUSE have been designing and manufacturing rotary valves, diverter valves and other related components for the bulk solids handling industry for more than 30 years. Offering tailor made solutions for chemical, food, plastics and pharmaceutical industries, DMN-WESTINGHOUSE products are distributed world-wide. Besides an extensive range of standard components, we supply USDA approved sanitary versions and explosion-proof models. An extensive network of subsidiaries, distributors and representatives ensures a high level of service and support all over the world.

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AL-BL DAIRY

The AL and the BL Dairy valves are also available in the MZC-version with centrally places supporting bars for easy removal of end cover and rotor. (see special product leaflet)
The DMN-WESTINGHOUSE DL (Dust Lock) is of a dedicated design for filter applications. The universal flanges on both sides of the valve are drilled to PN 10 and suitable for both round and square counter flanges. The inlet of the valve is square, therefore accommodating both round and square outlets from the vessel that has to be discharged. The angle of the inlet down to the rotor has been kept as steep as possible, to reduce the chance of bridging. The outlet from the valve is round, so that you can discharge into either a round or square connection.

**Product information**

The DL valve has a very large inlet and a direct drive, providing ample torque to drive the rotor, which has 6 replaceable and adjustable polyurethane blades. An optional steel fixed bladed rotor is also available.

The standard drive is a Nord helical geared motor, type SK01-F-71L/4, 0.37 kW, IP 55, isol. F, giving 27 rpm at 50 Hz and 32.4 rpm at 60 Hz. Suitable for 230/400V 50 Hz and 278/480V 60 Hz.

The standard model is suitable for handling products up to a temperature of 70 °C and a maximum pressure differential of 0.5 bar. The valve is pressure shock resistant up to 10 bar pressure.
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Internet: www.dmn.info

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Internet: www.dmn.info
DMN-WESTINGHOUSE

- Maximum protection against product degradation
- High filling efficiency
- Large air vent openings
- Robust construction
- Available with direct drive or chain-driven
- Flanges drilled in accordance with DIN ND 10, ANSI 150 lbs and JIS

**GL Granular valves**

DMN-WESTINGHOUSE GL valves are specially designed for gravity feeding and pneumatically conveying granular products. The configuration of the body and rotor has been developed specifically to minimise degradation whilst retaining the best possible pocket filling efficiency.

GL valves come in 5 sizes, covering a capacity range from approximately 5 to 79 liters per revolution at 100 % filling.

**Product information**

Three different body configurations are available: all stainless steel, stainless steel body with aluminium end covers and all aluminium. The aluminium configuration is anodised.

The full end disc rotor is made of 316 stainless steel. The end covers have outrigged ballbearings and the shaft is sealed with gland packings. The construction of the inlet minimises chopping of the product.

Standard models are suitable for handling products up to a temperature of 150 °C and a maximum pressure difference of 1.5 bar. Other options are available on request.
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Technical modifications are possible, dimensions in mm

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<tr>
<td>350</td>
<td>Ø88.9x2 73.6 85 42.5 10 38 41 44</td>
</tr>
</tbody>
</table>

* Optie : Ontluchtingspijp Option: Vent pipe
Option: Entlüftungsrohr Option: Tube de degazage

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E-mail: dmninfo@dmn-inc.com
The MALD, MLD and MGLD valves have been developed for applications where valves with outboard bearings would be over specified. The valves give exceptional value for money due to the simplified construction and direct drive. The basic construction of the three valves is the same, with the exception of the bodies.

The valves are suited for both conveying and metering purposes. They are ideal for vacuum conveying applications, Big bag unloading, cyclone applications and general purpose applications.

### MALD, MLD and MGLD air locks

The MALD, MLD and MGLD valves have been developed for applications where valves with outboard bearings would be over specified. The valves give exceptional value for money due to the simplified construction and direct drive. The basic construction of the three valves is the same, with the exception of the bodies.

The valves are suited for both conveying and metering purposes. They are ideal for vacuum conveying applications, Big bag unloading, cyclone applications and general purpose applications.

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</table>

*litre per revolution at 100% filling

### Product information

The valves are available in three materials of construction: cast iron, aluminium and stainless steel. The cast iron valves are also available nickel or chrome plated or tungsten coated.

The standard rotor has 8 fixed blades. Various rotor configurations are optionally available, such as adjustable blades, reduced capacity, scalloped, staggered, etc.

The end covers have inboard ball bearings. The shaft sealing is by means of lipseals, with the option of air purge.

The standard models are suitable for handling products up to a temperature of 70 °C, optional to 140 °C, and a maximum pressure differential of 1.5 bar. The valves are pressure shock resistant up to 10 bar g pressure.
The MALD valve utilises the AL-valve body which has two round flanges and is suitable for powders. This valve is suitable for many applications where a valve with outboard bearings would be over specified.
**MLD**

The MLD valve is based on the ML-valve body and is suitable for handling powders. The valve has one round flange and one square flange, both of which are one size larger than the MALD for the same rotor capacity. By this the valve has a large inlet in relation to the rotor volume, so that high filling efficiencies are reached with free flowing products. The valve can also be used as a transition piece from round to square or vice versa.

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**Dimensions in mm**

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<th>F</th>
<th>G</th>
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<th>H2</th>
<th>H3</th>
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**Type Bonfiglioli**

- 140 - 1/4" *VF49* 70
- 140 - 1/4" *VF63* 145
- 160 - 1/4" *VF72* 145
- 160 - 1/4" *VF86* 215
- 180 - 1/4" *VF86* 290
- 190 - 1/4" *VF110* 360
- 190 - 1/4" *VF110* 510

*Vent openings standard not pre-drilled*
DMN-WESTINGHOUSE have been designing and manufacturing rotary valves, diverter valves and other related components for the bulk solids handling industry for more than 30 years. Offering tailor made solutions for chemical, food, plastics and pharmaceutical industries, DMN-WESTINGHOUSE products are distributed world-wide.

Besides an extensive range of standard components, we supply USDA approved sanitary versions and explosion-proof models. An extensive network of subsidiaries, distributors and representatives ensures a high level of service and support all over the world.

**MGLD**

The MGLD valve is based on the GL-valve body and is suitable for granular products, definitely not for powders. The valve has a large air vent opening. Degradation of the conveyed product has been minimised by the configuration of the body and rotor, whilst optimal pocket filling efficiency is still attained. The full end disc rotor is made of 316 stainless steel.

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**Type MGLD**

- **Type Bonfiglioli**
  - 150: VF72
  - 200: VF86
  - 250: VF86
  - 300: VF110

  *Vent hole*
MZC valves
Due to the success in sanitary applications the MZC valves are now available in several versions and materials.

The unit has an easy detachable rotor which can be removed within a few minutes to facilitate inspection and cleaning. The configuration with direct drive has a very narrow construction, especially in the blow through (BL) version where the conveying line passes underneath the drive. The direct drive, in conjunction with a frequency inverter, results in a very flexible and maintenance free unit (no chains or grease).

The extraction mechanism offers a high degree of operator safety and gives the line operators considerable flexibility in cleaning and maintaining the equipment between runs.

The MZC valves are available in 6 sizes covering a capacity range of the rotor from approximately 2.5 to 58 litre per revolution at 100 % filling.

Product information
The MZC valves are supplied in cast iron and 316 stainless steel. Variations such as nickel and chrome plating and Tungsten coating are equally available.

Rotors for every application are available, such as reduced capacity, scalloped fixed vaned, end disc etc. The rotor clearance has a high accuracy and tight tolerances. The end covers have outboard bearings, lubricated and sealed for life. Eight different types of shaft sealing are available.

For special applications internal and external mirror polishing of the valve is possible. For the blow through valve tri-clamp connections are available.

The standard models are suitable for temperatures up to 150 °C and a pressure up to 1.5 bar g. Some versions are explosion shock resistant and flame proof up to 10 bar g pressure.

For applications where inlet size is more important than capacity, a range of blow through valves with an enlarged inlet is available in aluminium and 316 stainless steel.

*United States Department of Agriculture
**Dimensions AL MZC & AL Dairy MZC**

* Standard pre-drilled for cast iron
  Standaard voorgeboord bij gietijzer
  Standard vorgebohrt in Gusseisen
  Perçages standard sur les versions fonte
  Standard preforato per ghisa

** Air purge connection
  Spoelluchtaansluiting
  Luftspülanschluss
  Étanchéité insufflation d’air
  Ingresso aria di flussaggio

---

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** Type AL **

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**DMN-Westinghouse**

**BL-MZC**

Dimensions BL MZC & BL Dairy MZC

* Standard pre-drilled for cast iron  
Standaard voorgeboord bij gietijzer  
Standard vorgebohrt in Gusseisen  
Perçages standard sur les versions fonte  
Standard preforato per ghisa

** Air purge connection  
Spoelluchtaansluiting  
Luftspülanschluss  
Étanchéité insufflation d'air  
Ingresso aria di flussaggio

### Table 1: DIN & ANSI Specifications

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DMN-WESTINGHOUSE

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Other DMN-WESTINGHOUSE products:

AL
BL-DAIRY
AML
GL
DL
MLD-MALD-MGLD
SAL
TDV
M-TDV
FDV
PTD
FVV
DUC
SC
OS / GOS

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E-mail: dminfo@dmn-inc.com
DMN-WESTINGHOUSE have been designing and manufacturing rotary valves, diverter valves and other related components for the bulk solids handling industry for more than 30 years. Offering tailor made solutions for chemical, food, plastics and pharmaceutical industries, DMN-WESTINGHOUSE products are distributed world-wide. Besides an extensive range of standard components, we supply USDA approved sanitary versions and explosion-proof models. An extensive network of subsidiaries, distributors and representatives ensures a high level of service and support all over the world.

Technical modifications are possible, dimensions in mm

**SAL 150**

- **Type SAL**
  - Ltr/rev
  - ØA
  - SIZE
  - B*
  - C
  - D
  - E
  - F
  - G
- **Dimensions**
  - Ø A: 150 mm
  - B*: 8 holes Ø 18 mm

**SAL 80/100**

- **Type SAL**
  - Bonfiglioli drive
    - K
    - L
    - M
    - N
  - SEW drive
    - K
    - L
    - M
    - N
- **Dimensions**
  - Ø A: 150 mm

**PN 6 FLANGE DRILLING**

- **8 Holes Ø 18**

**Head Office:**
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PO Box 6, 2210 AA Noordwijkerhout, Holland
Tel. +31 252 361 800  Fax +31 252 375 972/934
E-mail: dmn@dmn-nwh.nl

**Internet:** [www.dmn.info](http://www.dmn.info)
DMN-WESTINGHOUSE

• For sanitary use
• Easy detachable rotor
• Low capacity
• Complete valve highly polished (inside and outside)
• Product surfaces FDA* approved
• Maximum product temperature up to 100 °C
• System pressure up to 1 bar g

SAL Small Sanitary Valve
The DMN-WESTINGHOUSE SAL (Sanitary Air Lock) is a low capacity rotary valve with a highly polished surface on both the inside and outside. This valve is specially designed for metering purposes in applications where very high hygienic standards, ease of operation and cleaning are required. Therefore the SAL is very suitable for use in the pharmaceutical, food and chemical industries.

The valve is machined from solid stainless steel, not cast material. The complete valve can be dismantled for inspection and cleaned in a matter of minutes, thus reducing eventual downtime and production loss.

Product information
The SAL is available in three sizes: DN80, DN100 and DN150, with capacities of 0.25, 0.8 and 2.5 ltr/rev. The valve sizes 80 and 100 are made from solid DIN 1.4404 (AISI 316L) stainless steel, and have an easy detachable full end disc rotor with 6 rotor pockets and tri-clamp flange connections. The SAL 150 is the same as the sizes 80 and 100 except that the rotor is of a fabricated open end design (Daibi rotor) and the flange connections are DN150 (6”) drilled according to PN 6.

The standard version has an easy detachable rotor, inboard bearings and a direct drive with PTFE lip seals for the shaft sealing. The standard versions are suitable for handling products up to 100 °C and a system pressure of 1 bar g.

Optional are an air motor or DC motor, as well as an air purge rotor shaft sealing. Other variations on the standard valve configuration are available on request.

* Food and Drugs Administration
The AL air locks and BL blow through valves have been designed by DMN-WESTINGHOUSE for many applications in the metering and pneumatic conveying of products in powder and granular form. These valves are the result of 30 years continuous development.

An extensive and flexible range of rotary valves is available. Due to the modular design of the valves many different configurations are available, using standard components. (See next page)

The product line also includes USDA approved models for sanitary use in the food and pharmaceutical industry: the types DAIRY and DAIRY MZC. These stainless steel valves are easy detachable in a few minutes and meet the highest hygienic standards.

The AL valves are available in 10 consecutive sizes from 100 - 500, covering a capacity range from 0.8 - 230 liter per revolution at 100 % filling. In the 400 - 500 sizes the valves can be supplied with square in- and outlet (type OS). The blow through valves are available in the BL-version 150-350 and the GOS version 400-500. See last page for a photo of the GOS version. Further information is available on request.

Drive options include chain, direct, air and hydraulic drive.

**Product information**

DMN-WESTINGHOUSE provides tailor made products to meet your every requirement.

The standard models are suitable for products up to a temperature of 150 °C and maximum pressure difference of 2 bar. Special configurations are available to accommodate temperatures between -200 °C and +900 °C. Configurations pressure shock resistant up to 10 bar g and explosion proof models are also available.

The AL valve is available with an optional body having one round and one square flange and a larger diameter inlet (AML version). The AML valve can also be used as a transition piece from round to square or vice versa. See last page for a photograph of the AML.

All models offer optimum venting through the large vent holes, standard pre-drilled and plugged on cast iron based versions, optional on stainless steel and aluminium versions.
The AL and BL valves are assembled with the following standard components (like the other DMN-WESTINGHOUSE valves)

**Housing and end covers**
cast iron
cast iron, hard chromium plated internally
cast iron, electroless nickel plated internally
cast iron, provided with a tungsten carbide wear layer
stainless steel 316

**Rotors**
fixed blades
provided with replaceable and adjustable blades
with reduced capacity and replaceable blades
with rounded pockets and fixed blades
with end plates

**Shaft materials**
steel
stainless steel 316
options with hard chromium or tungsten carbide coating

**Rotor blades**
steel
steel, hardened
steel, hard chromium plated or electroless nickel plated
stainless steel 316
plastic (polyurethane, Teflon etc.)
brass
hardened steel or hardened stainless steel
scraper blades (optional chrome plating)
chamfered

**Variations on standard components are available**

**Shaft seals:**
packing ring or air purged type seals according to customer’s requirements.

**Bearings:**
outrigger ball-bearing, sealed for life.

**Body vents:**
Standard on cast iron based versions pre-drilled and plugged, optional on stainless steel and aluminium.

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We shall be pleased to send you at your request further detailed documentation or information concerning our AL/BL range, or any other DMN-WESTINGHOUSE products.
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Technical modifications are possible, dimensions in mm.

* Standard pre-drilled for cast iron.
### Components for bulk solids handling

**DMN-WESTINGHOUSE**

**BL.M.01.00.0**

#### TYPE BL

| Ltr/U | ØA | ØB DIN | ØC | ØB ANSI | E | F | G | H | J | K | L | M | N |
|-------|----|--------|----|---------|---|---|---|---|---|---|---|---|---|---|
| 150   | 2.5| 150    | 240| 8xØ23  | 285| 241.3| 8xØ22.2| 12| 295| 155| 110| 65| 484| 60| 127| 146|
| 175   | 5.5| 175    | 270| 8xØ23  | 315| 14        | 175 | 130| 75 | 524| 60| 125| 190|
| 200   | 10.5| 200   | 295| 8xØ23  | 343| 14        | 215 | 160| 90 | 609| 72| 138| 284|
| 250   | 19  | 250    | 350| 12xØ23 | 406| 361.9| 12xØ25.4| 16| 470| 245| 190| 100| 659| 72| 138| 284|
| 300   | 34  | 300    | 400| 12xØ23 | 483| 431.8| 12xØ25.4| 21| 565| 295| 225| 120| 763| 74| 150| 360|
| 350   | 58  | 350    | 460| 16xØ23 | 530| 476.2| 12xØ28.6| 26| 665| 335| 270| 132| 833| 74| 155| 420|

#### TYPE BL

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* Standard pre-drilled for cast iron.
Accessoires:

Inlet restrictor and drop out box

Vent openings in body

Air purge regulation station

Easy detachable version

Easy detachable MZC version

Capacity graph
filling efficiency 100%

![Capacity Graph](image-url)
DMN-WESTINGHOUSE have been designing and manufacturing rotary valves, diverter valves and other related components for the bulk solids handling industry for more than 30 years. Offering tailor made solutions for chemical, food, plastics and pharmaceutical industries, DMN-WESTINGHOUSE products are distributed world-wide.

Besides an extensive range of standard components, we supply USDA approved sanitary versions and explosion-proof models.

An extensive network of subsidiaries, distributors and representatives ensures a high level of service and support all over the world.

Other DMN-WESTINGHOUSE products:

AL-DIARY
BL-MZC
AML
GL
DL
MLD-MALD-MGLD
SAL
TDV
M-TDV
PTD
FVV
FDV
DUC
SC
OS / GOS

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