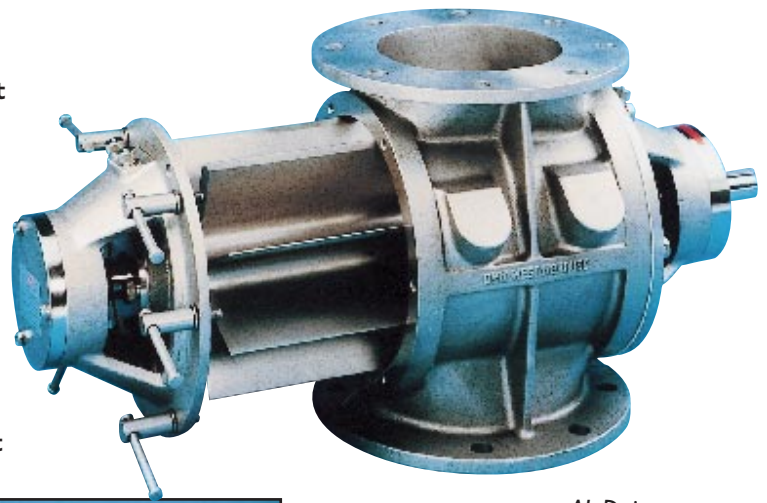


# AL-BL DAIRY

- USDA\* approved
- Easy removal of rotor for fast and efficient cleaning
- Smooth product contact surfaces in food grade material
- Rotor pockets radiused and polished to  $R_a = 0.8 \mu\text{m}$  (150 grit)
- Rotor vanes chamfered on all edges
- Flame proof and explosion shock resistant versions available



AL-Dairy



BL-Dairy



## 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).

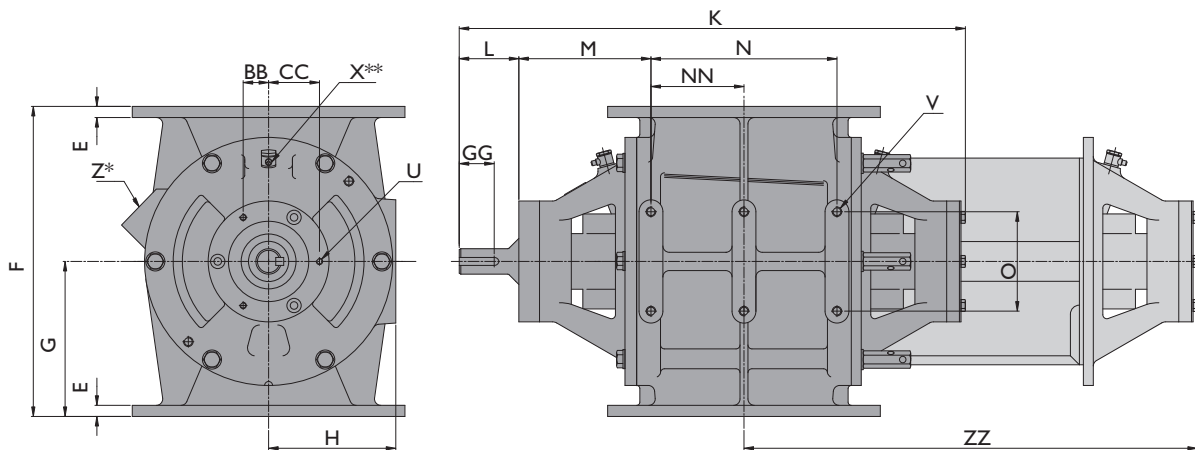
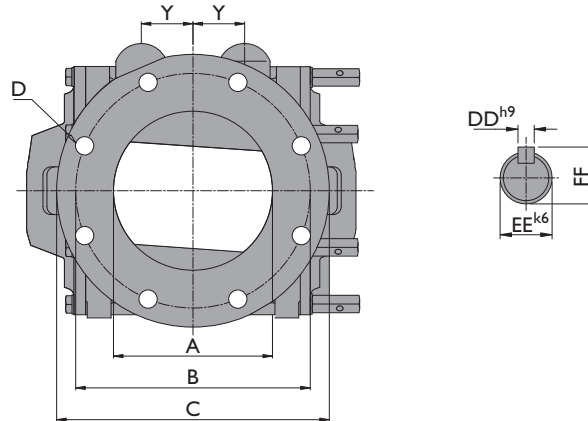
Shaft sealing can be glands or air purge.

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.

\*United States Department of Agriculture

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)



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

\*\* Air purge connection  
Aansluiting luchtafdichting  
Luftpülanschluss  
Connexion insufflation d'air

<--DISASSEMBLY DIMENSION/DEMONTAGEMAAT-->  
<--DEMONTIERMASSE/DIMENSION DE DÉMONTAGE-->

| Type AL | Ltr/rev | ØA  | DIN |        |     | ANSI  |          |    | E   | F   | G   | H   | K  | L   | M   | N   | NN |
|---------|---------|-----|-----|--------|-----|-------|----------|----|-----|-----|-----|-----|----|-----|-----|-----|----|
|         |         |     | ØB  | D      | ØC  | ØB    | D        |    |     |     |     |     |    |     |     |     |    |
| 150     | 2.5     | 150 | 240 | 8xØ23  | 285 | 241.3 | 8xØ22.2  | 12 | 280 | 140 | 110 | 521 | 72 | 151 | 146 | —   |    |
| 175     | 5.5     | 175 | 270 | 8xØ23  | 315 | —     | —        | 14 | 330 | 165 | 130 | 561 | 72 | 149 | 190 | —   |    |
| 200     | 10.5    | 200 | 295 | 8xØ23  | 343 | 298.4 | 8xØ22.2  | 14 | 390 | 195 | 160 | 646 | 84 | 166 | 234 | —   |    |
| 250     | 19      | 250 | 350 | 12xØ23 | 406 | 361.9 | 12xØ25.4 | 16 | 450 | 225 | 190 | 696 | 84 | 166 | 284 | 142 |    |
| 300     | 34      | 300 | 400 | 12xØ23 | 483 | 431.8 | 12xØ25.4 | 21 | 540 | 270 | 225 | 804 | 80 | 185 | 360 | 180 |    |
| 350     | 58      | 350 | 460 | 16xØ23 | 530 | 476.2 | 12xØ28.6 | 26 | 660 | 330 | 270 | 874 | 80 | 190 | 420 | 210 |    |

| Type AL | O*  | U     | V     | X**        | Y   | Z           | AA   | BB   | CC   | DD | EE | FF | GG | ZZ   |
|---------|-----|-------|-------|------------|-----|-------------|------|------|------|----|----|----|----|------|
| 150     | 100 | 3xM6  | 4xM10 | 1/4" (Ø10) | 40  | UNEF 1 1/8" | 37.1 | 37.1 | 52.5 | 8  | 30 | 33 | 35 | 532  |
| 175     | 100 | 3xM6  | 4xM10 | 1/4" (Ø10) | 53  | UNEF 1 1/8" | 37.1 | 37.1 | 52.5 | 8  | 30 | 33 | 35 | 592  |
| 200     | 125 | 3xM8  | 4xM12 | 1/4" (Ø10) | 65  | UNEF 1 1/8" | 55.4 | 32   | 64   | 10 | 32 | 35 | 43 | 692  |
| 250     | 125 | 3xM8  | 6xM12 | 1/4" (Ø10) | 75  | UNEF 1 1/8" | 55.4 | 32   | 64   | 10 | 32 | 35 | 43 | 767  |
| 300     | 125 | 3xM10 | 6xM12 | 1/4" (Ø10) | 95  | UNEF 1 1/8" | 73.6 | 85   | 42.5 | 10 | 38 | 41 | 44 | 915  |
| 350     | 125 | 3xM10 | 6xM12 | 1/4" (Ø10) | 112 | UNEF 1 1/8" | 73.6 | 85   | 42.5 | 10 | 38 | 41 | 44 | 1000 |

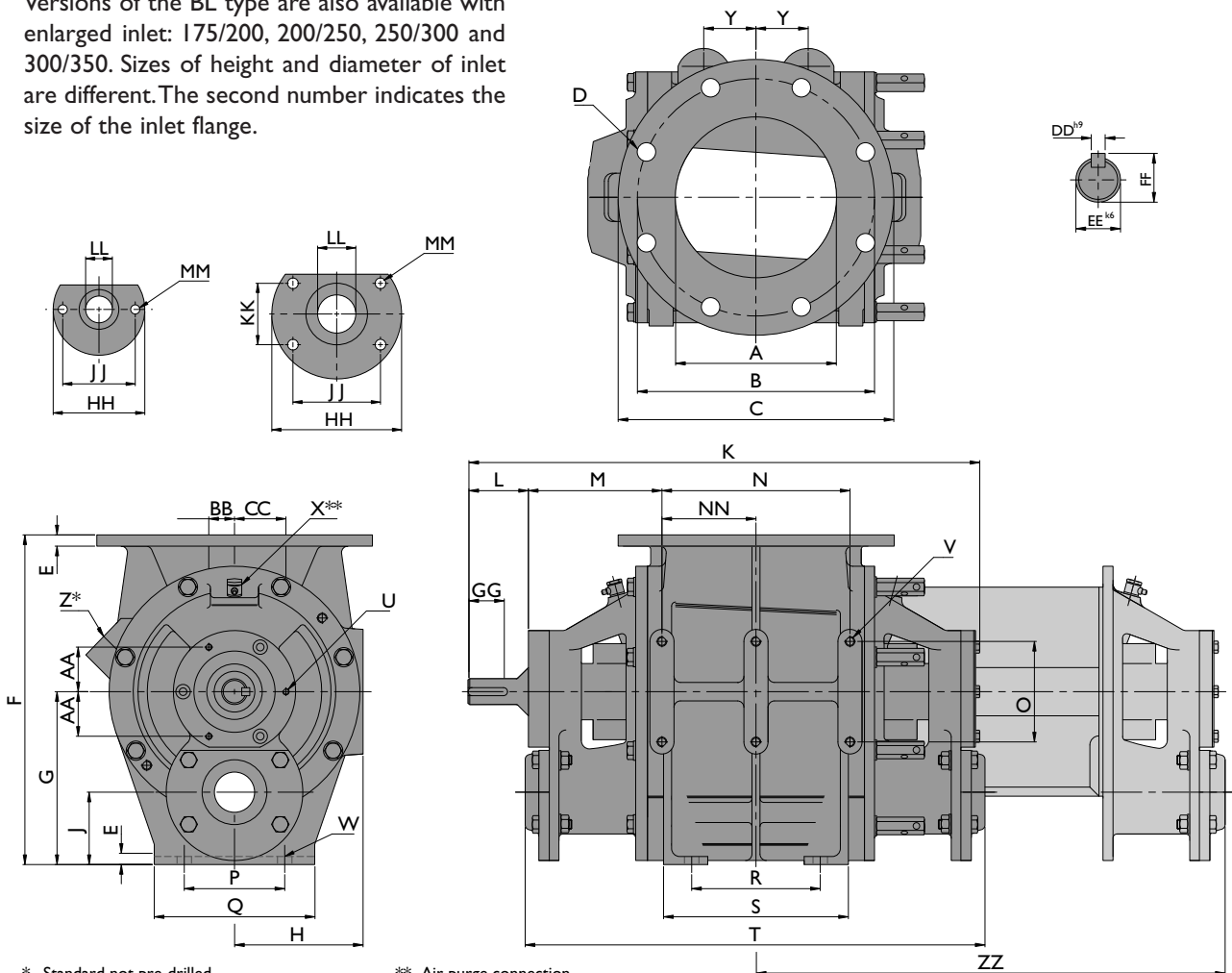


# BL DAIRY

Technical modifications are possible, dimensions in mm

BL.M.04.00.E

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 voorgeboord  
 Standard nicht gebohrt  
 Standard pas percé

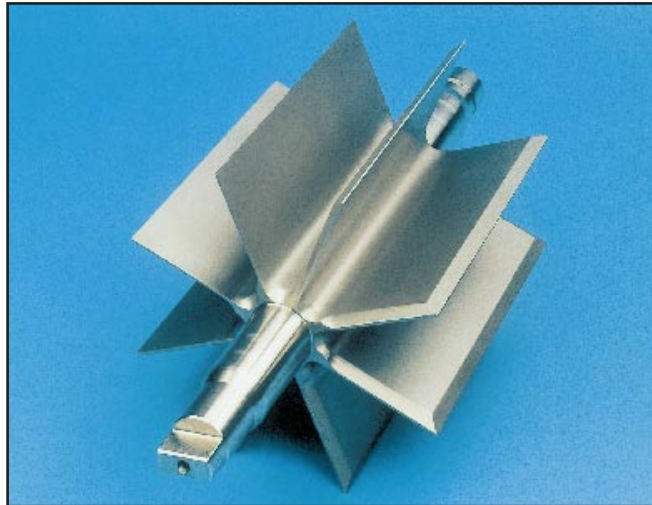
\*\* Air purge connection  
 Aansluiting luchtfachting  
 Luftspülanschluss  
 Connexion insufflation d'air

<--DISASSEMBLY DIMENSION/DEMONTAGEMAAT-->  
 <--DEMONTIERMASSE/DIMENSION DE DÉMONTAGE-->

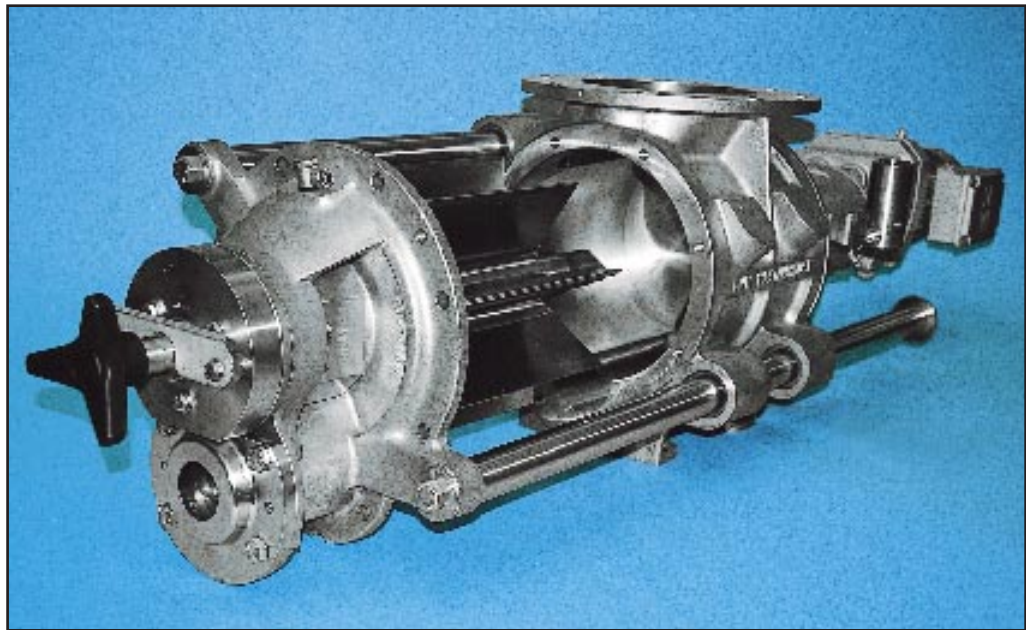
| Type BL | Ltr/rev | DIN |     |        |     | ANSI  |          |    |     | E   | F   | G   | H   | J  | K   | L   | M   | N   | NN  | O   | P   | Q   | R | S |
|---------|---------|-----|-----|--------|-----|-------|----------|----|-----|-----|-----|-----|-----|----|-----|-----|-----|-----|-----|-----|-----|-----|---|---|
|         |         | ØA  | ØB  | D      | ØC  | ØB    | D        |    |     |     |     |     |     |    |     |     |     |     |     |     |     |     |   |   |
| 150     | 2.5     | 150 | 240 | 8xØ23  | 285 | 241.3 | 8xØ22.2  | 12 | 295 | 155 | 110 | 65  | 521 | 72 | 151 | 146 | —   | 100 | 110 | 140 | 100 | 154 |   |   |
| 175     | 5.5     | 175 | 270 | 8xØ23  | 315 | —     | —        | 14 | 340 | 175 | 130 | 75  | 561 | 72 | 149 | 190 | —   | 100 | 130 | 160 | 130 | 190 |   |   |
| 200     | 10.5    | 200 | 295 | 8xØ23  | 343 | 298.4 | 8xØ22.2  | 14 | 410 | 215 | 160 | 90  | 646 | 84 | 166 | 234 | —   | 125 | 160 | 200 | 160 | 230 |   |   |
| 250     | 19      | 250 | 350 | 12xØ23 | 406 | 361.9 | 12xØ25.4 | 16 | 470 | 245 | 190 | 100 | 696 | 84 | 166 | 284 | 142 | 125 | 170 | 210 | 200 | 274 |   |   |
| 300     | 34      | 300 | 400 | 12xØ23 | 483 | 431.8 | 12xØ25.4 | 21 | 565 | 295 | 225 | 120 | 804 | 80 | 185 | 360 | 180 | 125 | 190 | 240 | 260 | 350 |   |   |
| 350     | 58      | 350 | 460 | 16xØ23 | 530 | 476.2 | 12xØ28.6 | 26 | 665 | 335 | 270 | 132 | 874 | 80 | 190 | 420 | 210 | 125 | 220 | 270 | 310 | 410 |   |   |

| Type BL | T   | U     | V     | W     | X         | Y   | Z           | AA   | BB   | CC   | DD | EE | FF | GG | HH  | JJ    | KK    | LL  | LL max. | MM   | ZZ   |
|---------|-----|-------|-------|-------|-----------|-----|-------------|------|------|------|----|----|----|----|-----|-------|-------|-----|---------|------|------|
| 150     | 462 | 3xM6  | 4xM10 | 4xØ12 | 1/4"(Ø10) | 40  | UNEF 1 1/8" | 37.1 | 37.1 | 52.5 | 8  | 30 | 33 | 35 | 120 | 95    | —     | 35  | 50      | 2x12 | 540  |
| 175     | 502 | 3xM6  | 4xM10 | 4xØ14 | 1/4"(Ø10) | 53  | UNEF 1 1/8" | 37.1 | 37.1 | 52.5 | 8  | 30 | 33 | 35 | 140 | 103.9 | 60.4  | 50  | 65      | 4x12 | 600  |
| 200     | 572 | 3xM8  | 4xM12 | 4xØ18 | 1/4"(Ø10) | 65  | UNEF 1 1/8" | 55.4 | 32   | 64   | 10 | 32 | 35 | 43 | 170 | 114.7 | 80.3  | 50  | 80      | 4x14 | 700  |
| 250     | 622 | 3xM8  | 6xM12 | 4xØ18 | 1/4"(Ø10) | 75  | UNEF 1 1/8" | 55.4 | 32   | 64   | 10 | 32 | 35 | 43 | 190 | 125   | 100   | 70  | 100     | 4x14 | 775  |
| 300     | 724 | 3xM10 | 6xM12 | 4xØ23 | 1/4"(Ø10) | 95  | UNEF 1 1/8" | 73.6 | 85   | 42.5 | 10 | 38 | 41 | 44 | 230 | 163.8 | 114.7 | 100 | 125     | 4x14 | 915  |
| 350     | 794 | 3xM10 | 6xM12 | 4xØ23 | 1/4"(Ø10) | 112 | UNEF 1 1/8" | 73.6 | 85   | 42.5 | 10 | 38 | 41 | 44 | 244 | 152   | 152   | 125 | 150     | 4x14 | 1000 |

# AL-BL DAIRY



With the standard Daiby rotor the friction between end cover and rotor is minimal.



The AL and the BL Dairy valves are also available in the MZC-version with centrally placed supporting bars for easy removal of end cover and rotor. (see special product leaflet)

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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