



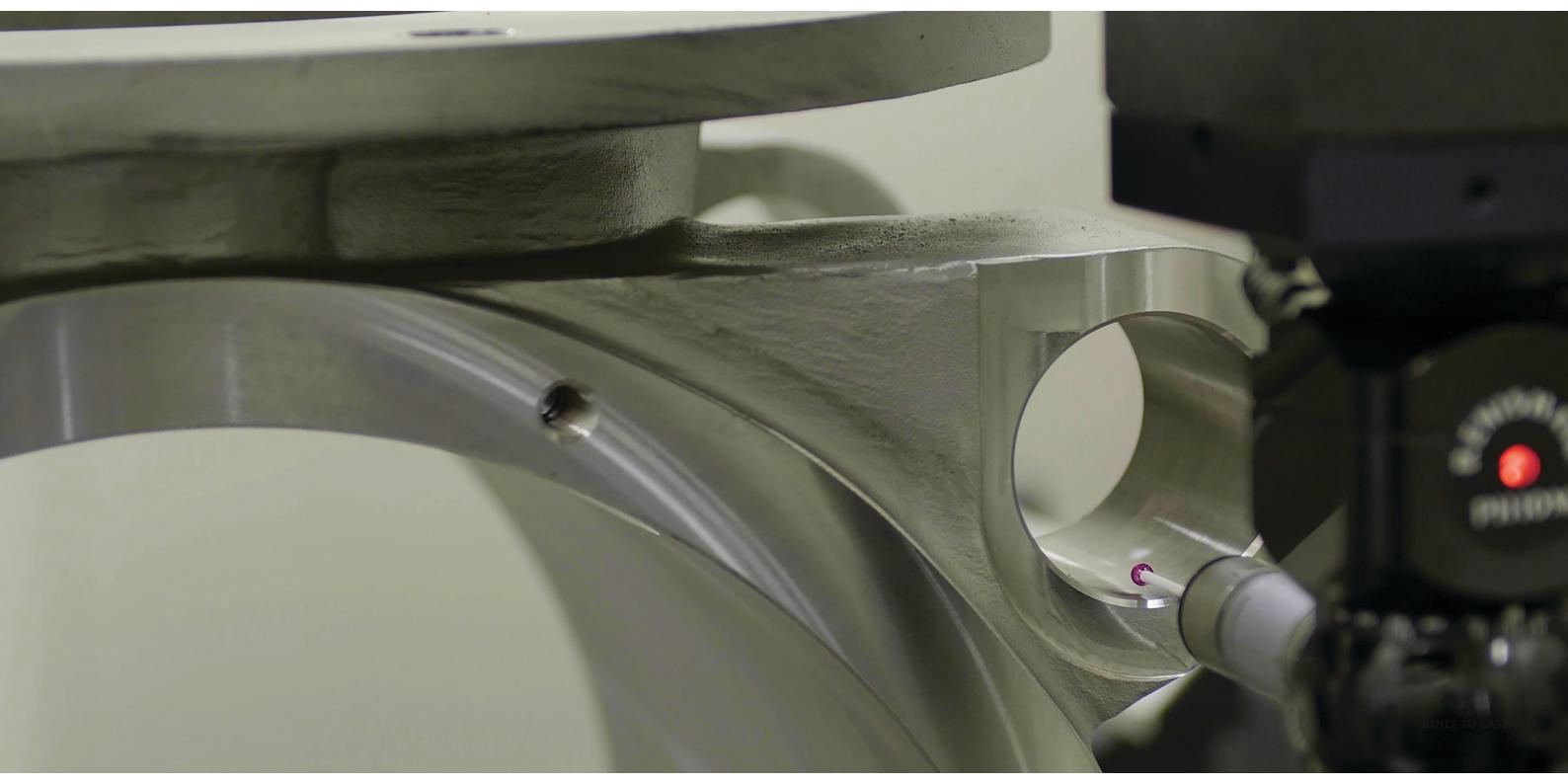
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The international world of processing comprises a large variety of industries and companies. DMN-WESTINGHOUSE has been designing and manufacturing rotary valves, diverter valves and other related components for the bulk solids handling industry for more than 40 years. As an independent company we have no involvement in system design, our sole activity is to develop, manufacture and sell these components.

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RCTARY MALLES

Our rotary valves and diverters have a well-established reputation for being able to handle powders and granular products from all industries, such as dairy, food, pharma, plastics and chemicals. We can supply cast iron, aluminium and stainless steel valves with variations of build, depending on the materials being handled. For abrasive products we can offer different coatings depending on the nature of the materials, such as Hardox replaceable blades, Hard Chrome and Tungsten Carbide. For sanitary applications we have our original rail rotary valve, the "MZC", to allow easy removal of the rotor for cleaning purposes. EHEDG certification for CIP (Clean In Place) is also available. The valves can be polished internally and have full USDA / FDA approvals.

AIRLOCK - AL / AXL















AL / AXL

| PRESSURE | Up to 2 bar |
|------------------------------|--|
| PRODUCT TEMP °C | Up to +150° (optional up to +600° depending on material of construction) |
| AMBIENT TEMP °C | -20° up to +40° |
| STANDARD / EASILY DETACHABLE | Yes |
| RID CONTROL | Yes |
| ROTOR | Adjustable blades / Fixed vanes |
| ADJUSTABLE BLADES | Steel / Steel hardened / Stainless steel / Polyurethane |
| SEAL | Gland / Air purge by means of: Packing cord / Lip seal |
| DRIVE | Chain / Direct drive: Helical gear unit - Parallel shaft helical gear unit |
| ATEX 2014/34/3U | 1D/2GD Equipment / Protective system st.2 (10 bar p _{max}) |

| | | AA. |
|--------------------------|--------------------------------------|---------------------|
| MZC | Cast iron / Stainless steel only | Yes |
| MATERIAL OF CONSTRUCTION | Cast iron | Stainless steel 316 |
| | Stainless steel 316 | |
| | Aluminium | |
| | Ni-hard | |
| COATING | Chrome or Nickel plating | On request |
| | Tungsten carbide | |
| | Hard anodising | |
| FLANGE HOLE PATTERN | DIN PN10 / ANSI 150 (AL 100 DIN PN6) | DIN PN10 / ANSI 150 |

| SIZE TYPE AL | 100 | 150 | 175 | 200 | 250 | 300 | 350 | 400 | 450 | 500 |
|-------------------------|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|
| SIZE TYPE AXL | | | 200 | 250 | 300 | 350 | | | | |
| LTR/REV AT 100% FILLING | 0,8 | 2,5 | 5,5 | 10,5 | 19 | 34 | 58 | 91 | 135 | 230 |

The AXL valves have enlarged inlets, which are specifically designed for products with poor flowability.

AIRLOCK - AML















AML

| PRESSURE | Up to 2 bar | | |
|------------------------------|--|--|--|
| PRODUCT TEMP °C | Up to +150° (optional up to +600° depending on material of construction) | | |
| AMBIENT TEMP °C | -20° up to 40° | | |
| STANDARD / EASILY DETACHABLE | Yes | | |
| MZC | Stainless steel only | | |
| RID CONTROL | Yes | | |
| MATERIAL OF CONSTRUCTION | Cast iron | | |
| | Stainless steel 316 | | |
| COATING | Chrome or Nickel plating | | |
| | Tungsten carbide | | |
| FLANGE HOLE PATTERN | Round: DIN PN10 / ANSI 150 Square: upon drawing (AML 100 DIN PN6) | | |
| ROTOR | Adjustable blades / Fixed vanes | | |
| ADJUSTABLE BLADES | Steel / Steel hardened / Stainless steel / Polyurethane | | |
| SEAL | Gland / Air purge by means of: Packing cord / Lip seal | | |
| DRIVE | Chain / Direct drive: Helical gear unit - Parallel shaft helical gear unit | | |
| ATEX 2014/34/3U | 1D/2GD Equipment / Protective system st.2 (10 bar p _{max}) | | |
| | | | |

| SIZE TYPE AML | 100 | 150 | 200 | 250 | 300 | 350 | 400 |
|-------------------------|-----|-----|-----|------|-----|-----|-----|
| LTR/REV AT 100% FILLING | 0,8 | 2,5 | 5,5 | 10,5 | 19 | 34 | 58 |









USAL

| PRESSURE | Up to 2 bar | |
|------------------------------|--|--|
| PRODUCT TEMP °C | Up to +150° (optional up to +400° depending on material of construction) | |
| AMBIENT TEMP °C | -20° up to +40° | |
| STANDARD / EASILY DETACHABLE | Yes | |
| MZC | No | |
| RID CONTROL | No | |
| MATERIAL OF CONSTRUCTION | Cast iron | |
| COATING | Chrome or Nickel plating | |
| | Tungsten carbide | |
| FLANGE HOLE PATTERN | Square: upon drawing | |
| ROTOR | Adjustable blades / Fixed vanes | |
| ADJUSTABLE BLADES | Steel / Steel hardened / Stainless steel / Polyurethane | |
| SEAL | Gland / Air purge by means of: Packing cord / Lip seal | |
| DRIVE | Chain / Direct drive: Helical gear unit - Parallel shaft helical gear unit | |

| SIZE TYPE USAL | 203,2 (8") | 254 (10") | 304,8 (12") |
|-------------------------|------------|-----------|-------------|
| LTR/REV AT 100% FILLING | 5,5 | 10,5 | 19 |

BLOWING SEAL - BL / BXL / BXXL















BL / BXL / BXXL

| PRESSURE | Up to 2 bar |
|------------------------------|--|
| PRODUCT TEMP °C | Up to +150° (optional up to +250°) |
| AMBIENT TEMP °C | -20° up to +40° |
| FLANGE DRILLED TO | DIN PN10 / ANSI 150 |
| STANDARD / EASILY DETACHABLE | Yes |
| RID CONTROL | Yes |
| ROTOR | Ajustable blades / Fixed vanes |
| ADJUSTABLE BLADES | Steel / Steel hardened / Stainless steel / Polyurethane |
| SEAL | Gland / Air purge by means of: Packing cord / Lip seal |
| DRIVE | Chain / Direct drive: Helical gear unit - Parallel shaft helical gear unit |
| ATEX 2014/34/3U | 1D/2GD Equipment / Protective system st.2 (10 bar p _{max}) |

| | BL | BXL | BXXL |
|--------------------------|--------------------------|---------------------|---------------------|
| MATERIAL OF CONSTRUCTION | Cast iron | Stainless steel 316 | Stainless steel 316 |
| | Stainless steel 316 | Aluminium | |
| COATING | Chrome or Nickel plating | Hard anodising | On request |
| | Tungsten carbide layer | | |
| MZC | Stainless steel only | Yes | Yes |

The BXL and BXXLvalves have enlarged inlets, which are specifically designed for products with poor flowability.

| SIZE TYPE BL | 150 | 175 | 200 | 250 | 300 | 350 |
|-------------------------|-----|-----|------|-----|-----|-----|
| SIZE TYPE BXL | | 200 | 250 | 300 | 350 | |
| SIZE TYPE BXXL | | | | 350 | | |
| LTR/REV AT 100% FILLING | 2,5 | 5,5 | 10,5 | 19 | 34 | 58 |

MEDIUM DUTY AIRLOCK - MLD











MLD

| PRESSURE | Up to 1 bar | |
|--------------------------|---|--|
| PRODUCT TEMP °C | Up to +65° | |
| AMBIENT TEMP °C | -20° up to +40° | |
| MATERIAL OF CONSTRUCTION | Cast iron | |
| | Stainless steel 316 | |
| COATING | Chrome or Nickel plating | |
| | Tungsten carbide layer | |
| FLANGE HOLE PATTERN | Round: DIN PN10 / ANSI 150 Square: upon drawing (MLD 100 DIN PN6) | |
| ROTOR | Adjustable blades / Fixed vanes | |
| ADJUSTABLE BLADES | Steel / Steel hardened / Stainless steel / Polyurethane | |
| SEAL | Gland / Air purge by means of: Lip seal | |
| DRIVE | Direct drive Helical gear unit | |
| ATEX 2014/34/3U | 1D/2GD Equipment | |

| SIZE TYPE MLD | 100 | 150 | 200 | 250 | 300 | 350 | 400 |
|-------------------------|-----|-----|-----|------|-----|-----|-----|
| LTR/REV AT 100% FILLING | 0,8 | 2,5 | 5,5 | 10,5 | 19 | 34 | 58 |











MALD

| PRESSURE | Up to 1 bar |
|--------------------------|---|
| PRODUCT TEMP °C | Up to +65° |
| AMBIENT TEMP °C | -20° up to +40° |
| MATERIAL OF CONSTRUCTION | Cast iron |
| | Stainless steel 316 |
| | Aluminium |
| COATING | Chrome or Nickel plating |
| | Tungsten carbide layer |
| | Hard anodising |
| FLANGE HOLE PATTERN | Round: DIN PN10 / ANSI 150 |
| ROTOR | Adjustable blades / Fixed vanes |
| ADJUSTABLE BLADES | Steel / Steel hardened / Stainless steel / Polyurethane |
| SEAL | Gland / Air purge by means of: Lip seal |
| DRIVE | Direct drive Helical gear unit |
| ATEX 2014/34/3U | 1D/2GD Equipment |
| | |

| SIZE TYPE MALD | 100 | 150 | 175 | 200 | 250 | 300 | 350 | |
|-------------------------|-----|-----|-----|------|-----|-----|-----|--|
| LTR/REV AT 100% FILLING | 0,8 | 2,5 | 5,5 | 10,5 | 19 | 34 | 58 | |

SANITARY AIRLOCK - SAL











SAL

| PRESSURE | Up to 1 bar |
|--------------------------|---|
| PRODUCT TEMP °C | Up to +100° |
| AMBIENT TEMP °C | -20° up to +40° |
| MATERIAL OF CONSTRUCTION | Stainless steel 316L |
| | Polished Ra o.8 (P150 grit) |
| COATING | No |
| FLANGE HOLE PATTERN | Ferrule (Size 150: DIN PN6) |
| ADJUSTABLE BLADES | N.A. |
| SEAL | Gland / Air purge by means of: Lip seal |
| DRIVE | Direct drive Worm gear unit |
| ATEX 2014/34/EU | 1D/2GD Equipment |

| SIZE TYPE SAL | 50 | 65 | 80 | 100 | 150 |
|-------------------------|------|------|------|-----|-----|
| LTR/REV AT 100% FILLING | 0,07 | 0,13 | 0,25 | 0,8 | 2,5 |

GRANULAR AIRLOCK - GL











GL

| PRESSURE | Up to 1.5 bar |
|--------------------------|--|
| PRODUCT TEMP °C | Up to +150° (optional up to +250° depending on material of construction) |
| AMBIENT TEMP °C | -20° up to +40° |
| MATERIAL OF CONSTRUCTION | Stainless steel 316 |
| | Aluminium |
| COATING | Hard anodising |
| FLANGE HOLE PATTERN | DIN PN10 / ANSI 150 |
| ROTOR | Fixed vane end disc stainless steel 316L |
| SEAL | Gland by means of packing cord |
| DRIVE | Chain / Direct drive: Helical gear unit - Parallel shaft helical gear unit |
| ATEX 2014/34/EU | 1D/2GD Equipment |

| SIZE TYPE GL | 150 | 200 | 250 | 300 | 350 |
|-------------------------|-----|-----|------|-----|-----|
| LTR/REV AT 100% FILLING | 5 | 10 | 17,5 | 32 | 79 |

DUST LOCK - DL





DL

| PRESSURE | Up to 0.5 bar |
|--------------------------|--|
| PRODUCT TEMP °C | Up to +70° |
| AMBIENT TEMP °C | -20° up to +40° |
| MATERIAL OF CONSTRUCTION | Cast Iron |
| FLANGE HOLE PATTERN | Universal flange connection to either Round or Square connection drilled to DIN PN10 |
| ROTOR | Adjustable blades / Fixed vanes |
| ADJUSTABLE BLADES | Polyurethane |
| SEAL | Gland by means of Lip seal |
| DRIVE | Direct drive: Helical gear unit |

| EVE | | ITI. | | |
|-----|-----|------|----|-----|
| EXE | ·CC | ш | UI | 4 I |

EXECUTION 1EX

| ATEX 2014/34/EU | 1D/2GD Equipment | 1D/2GD Equipment / Protective system St.2 |
|-----------------|------------------|---|
| | | Steel blades (3 bar p _{max}) |
| | | Polyurethane blades (2 bar p _{max}) |

| SIZE TYPE DL | 200 | 250 | 300 |
|-------------------------|-----|-----|-----|
| LTR/REV AT 100% FILLING | 6 | 8,5 | 19 |













DAIRY EXECUTION ROTARY VALVES

The MZC rotary valves have been widely used in sanitary applications (Dairy execution) as well as many other applications. The unit has an easy Removeable rotor which can be removed within a few minutes to facilitate inspection and cleaning. The configuration with direct drive has a very narrow construction. The direct drive, in conjunction with a frequency inverter, results in a very flexible, safe 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. Moreover the stability of the extraction mechanism ensures that the rotor can be easily moved in and out of the housing without damaging the housing or the rotor blades.



AL-AXL MZC airlock with side rails

- Supporting bars for easy removal of rotor and end cover
- · Direct drive or chain drive
- · Narrow, fl exible and maintenance free construction with direct drive
- Hygienic, USDA Dairy Accepted versions available
- Increased safety at work
- Explosion shock resistant up to 10 bar g
- Flameproof versions for both St1 and St2 products available
- Versions conforming to EC 1935/2004 available
- Versions conforming to ATEX 2014/34/EU available
- CIP-suitable versions conforming to EHEDG Type EL Class I available



BL-BXL MZC blowing seal with side rails

- Supporting bars for easy removal of rotor and end cover
- · Direct drive or chain drive
- Narrow, fl exible and maintenance free construction with direct drive
- · Hygienic, USDA Dairy Accepted versions
- Versions conforming to EC 1935/2004 available
- Increased safety at work
- Special blow through versions for cyclone or spray drier applications
- Explosion shock resistant up to 10 bar g
- Flameproof versions for both St1 and St2 products available
- Versions conforming to ATEX 2014/34/EU available
- CIP-suitable versions conforming to EHEDG Type EL Class I available



ROTARY VALVES TABLES

FILLING CAPACITY VERSUS SIZE

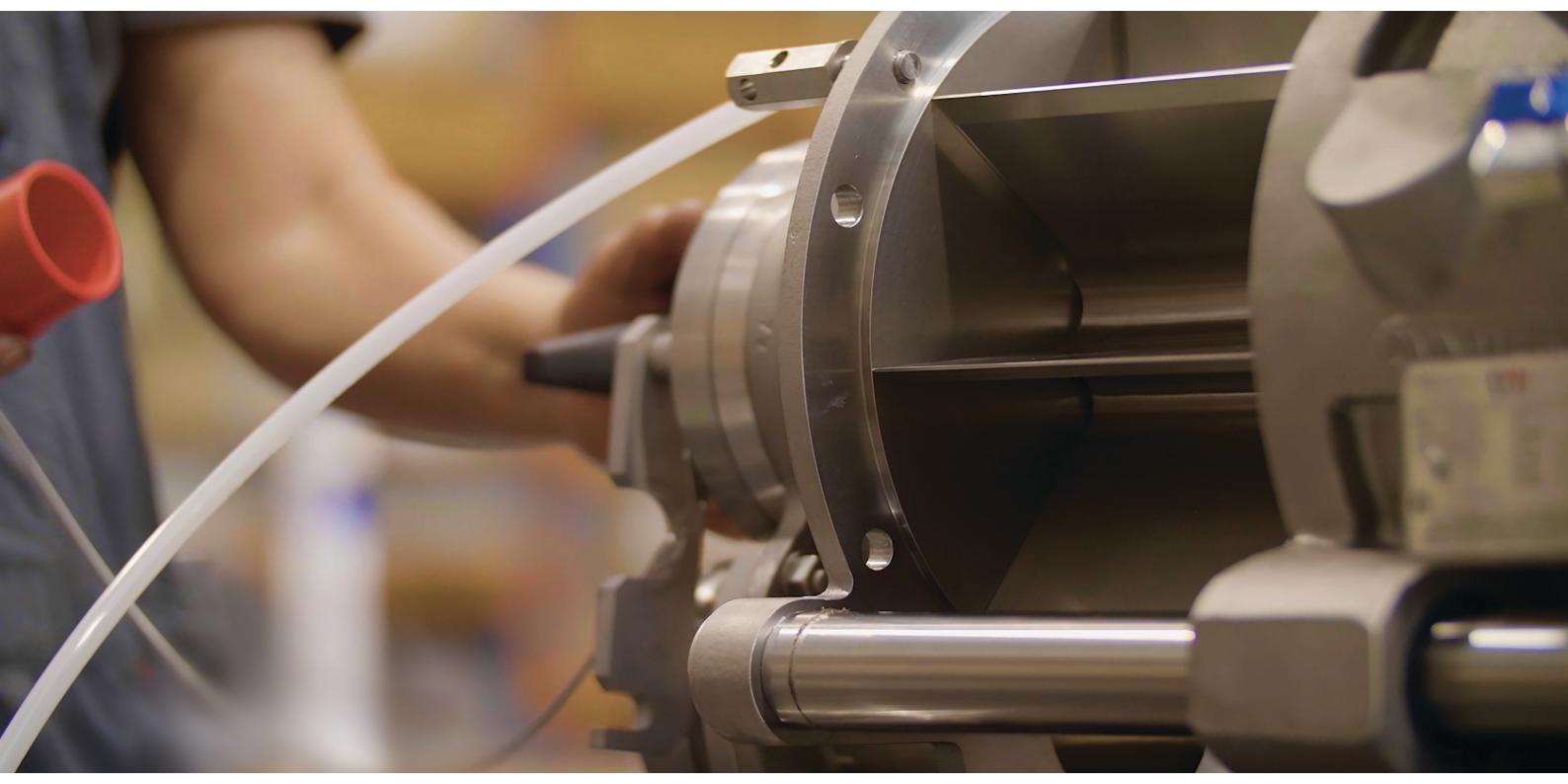
| SIZE | 50 | 65 | 80 | 100 | 150 | 175 | 200 | 250 | 300 | 350 | 400 | 450 | 500 |
|---------|------|------|------|-----|-----|-----|------|------|-----|-----|-----|-----|-----|
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| AL-BL | | | | 0.8 | 2.5 | 5.5 | 10.5 | 19 | 34 | 58 | 91 | 135 | 230 |
| AML | | | | 0.8 | 2.5 | | 5.5 | 10.5 | | 34 | 58 | | |
| AXL-BXL | | | | | | | 5.5 | 10.5 | 19 | 34 | | | |
| BXXL | | | | | | | | | | | | | |
| SAL | 0.07 | 0.13 | 0.25 | 0.8 | 2.5 | | | | | | | | |
| | | | | | | | | | | | | | |

| MLD | 0.8 | 2.5 | | 5-5 | 10.5 | 19 | 34 | 58 |
|------|-----|-----|-----|------|------|----|----|----|
| MALD | | 2.5 | 5-5 | 10.5 | | 34 | 58 | |
| DL | | | | | 8.5 | 19 | | |

* BASED ON LITRE PER REVOLUTION AT 100% FILLING

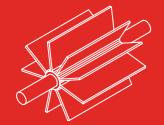
SIZE VERSUS FILLING CAPACITY*

| LTR./REV. | 0.07 | 0.13 | 0.25 | 0.8 | 2.5 | 5.5 | 6 | 8,5 | 10.5 | 19 | 34 | 58 | 91 | 135 | 230 |
|-----------|------|------|------|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|-----|-----|
| | | | | | | | | | | | | | | | |
| AL-BL | | | | 100 | 150 | 175 | | | 200 | 250 | 300 | 350 | 400 | 450 | 500 |
| AML | | | | 100 | 150 | 200 | | | 250 | 300 | 350 | 400 | | | |
| AXL-BXL | | | | | | 200 | | | 250 | 300 | 350 | | | | |
| BXXL | | | | | | | | | | 350 | | | | | |
| SAL | 50 | 65 | 80 | 100 | 150 | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| MLD | | | | 100 | 150 | 200 | | | 250 | 300 | 350 | 400 | | | |
| MALD | | | | | | 175 | | | 200 | 250 | 300 | 350 | | | |
| DI | | | | | | | 200 | 250 | | 200 | | | | | |



ROTOR OPTIONS

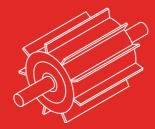




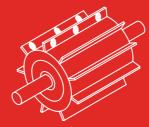
FIXED BLADES



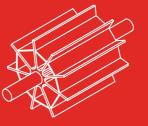
REPLACEABLE AND ADJUSTABLE BLADES



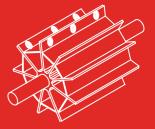
REDUCED CAPACITY
FIXED BLADES



REDUCED CAPACITY REPLACEABLE AND ADJUSTABLE BLADES



REDUCED CAPACITY
OPEN END FIXED BLADES



RC OPEN END REPLACEABLE AND ADJUSTABLE BLADES



END DISC FIXED BLADES



END-DISC REPLACEABLE AND ADJUSTABLE BLADES



SCALLOPED



FINE DOSING



SCALLOPED OPEN END



SEMI END-DISC REPLACEABLE AND ADJUSTABLE BLADES



MATERIALS OF CONSTRUCTION

PRODUCT GROUP

AL-AXL-AML-BL-BXL-BXXL-MLD-MALD

| EXECUTION | BODY-END COVERS | ROTOR | ADJUBSTABLE BLADES | SHAFT SEAL |
|------------|--|--|-------------------------------|-------------------------|
| 1 | Cast iron | Mild steel | Mild steel | Gland - Rameh |
| 2 | Stainless steel 316 | Stainless steel 316L | Stainless steel 316L | Gland - Teadit |
| 3C | Cast Iron Completely Chromium plated | Stainless steel 316L | Stainless steel 316L | Gland - Teadit |
| 3 N | Cast Iron Completely Nickel plated | Stainless steel 316L | Stainless steel 316L | Gland - Teadit |
| 4C | Cast Iron Bore + end covers Internally Chromium plated | Mild steel with Chromium plated shafts | Hardened steel (Hardox) | Air purge gland - Rameh |
| 4тсо | Cast Iron Bore + end covers Internally Tungsted Carbide coated | Mild steel with Tungsten Carbide coated shafts | Hardened steel (Hardox) | Air purge gland - Rameh |
| 4TS | Cast Iron Bore + end covers Internally Tungsten Carbide coated | Mild steel with Semi-end disc Tungsten Carbide coated discs and shafts | Hardened steel (Hardox) | Air purge gland - Rameh |
| 4NH | Ni Hard body Cast Iron end covers | Mild steel End disc With End disc tipped with Stellite | Mild steel with Stellite tips | Gland - Rameh |
| 5 | Cast Aluminium | Stainless steel 316L | Stainless steel 316L | Gland - Teadit |
| DAIRY | Stainless steel 316 | Stainless steel 316L | N.A. | Gland - Lip seal |
| DAIRY-WD | Stainless steel 316 | Stainless steel 316L | N.A. | Gland - Lip seal |
| DAIRY-EL I | Stainless steel 316 | Stainless steel 316L | N.A. | CIP seal |

ADDITIONAL

| D | Easy detachable |
|--------|---|
| MZC | Easy detachable with supporting rails |
| HT 250 | High temperature - Spherical roller bearing |
| HT 400 | High temperature Cast Iron - Special ball bearing |
| HT 600 | High temperature Stainless steel - Special ball bearing |



ACCESSORIES

ACCESSORIES



Inlet restrictor



Pressure regulator for all purged seals



Vent box



Dropout box



Rotor Interference Detection

- ✓ Special control unit of DMN-WESTINGHOUSE design
- Settings can be modified to suit application
- ✓ Contamination alarm feature
- Can be retro-fitted to existing valves
- ✓ Dedicated software



Toolkit

Wornout bearings can cause serious damage to your rotary valves. That also applies to incorrect placement of new bearings. That's why DMN has developed the "Bearing Toolkit". This, allows you to proparly replace the bearings of your rotary valve in the right way for a perfectly functioning



DIVIERIER VALUES

Diverters by DMN-WESTINGHOUSE are available in many types and sizes, suitable for a specific use or a variety of applications. The extensive diverter range comprises of a series of plug diverters (dual pipe, single pipe, gravity) and tube diverters (2-14 ports), some of which are also available in USDA Dairy accepted version. For the mineral industry, the BTD ball type diverter with its rugged design is very suitable for handling abrasive products.

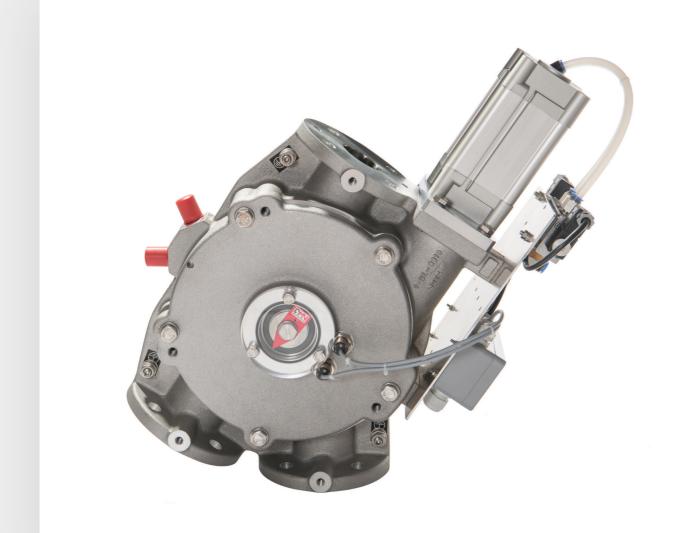
DUAL PIPE PLUG DIVERTER - PTD-II











PTD-II

| PRESSURE | Static -o.5 up to +3 bar |
|--------------------------|---|
| | Inflatable up to +6 bar |
| PRODUCT TEMPERATURE °C | Standard -20° up to +80° (Optional up to +120°) |
| AMBIENT TEMPERATURE °C | Standard -20° up to +60° |
| | ATEX -20° up to +40° |
| MATERIAL OF CONSTRUCTION | Aluminium body-plug-cover |
| | Stainless steel inserts |
| FLANGE HOLE PATTERN | DIN PN 10 / ANSI 150 lbs |
| SEAL | Static: silicone / polyurethane |
| | Inflatable: silicone |
| ATEX 2014/34/EU | 1D / 2GD Equipment |

| SIZES | 50 | 65 | 80 | 100 | 125 | 150 | 200 |
|----------------|----|----|----|-----|-----|-----|-----|
| | | | | | | | |
| FLOW DIRECTION | 50 | 65 | 80 | 100 | 125 | 150 | 200 |

SINGLE PIPE PLUG DIVERTER - SPTD











SPTD

| PRESSURE | Static -o.5 up to +3 bar |
|--------------------------|---|
| | Inflatable up to +6 bar |
| PRODUCT TEMPERATURE °C | Standard -20° up to +80° (Optional up to +150°) |
| AMBIENT TEMPERATURE °C | Standard -20° up to +60° |
| | ATEX -20° up to +40° |
| MATERIAL OF CONSTRUCTION | Aluminium body-plug-cover |
| | Stainless steel inserts |
| FLANGE HOLE PATTERN | DN PN 10 / ANSI 150 lbs |
| SEAL | Static: silicone |
| | Inflatable: silicone |
| ATEX 2014/34/EU | 1D / 2GD Equipment |
| REMARK | Diverging only |

| | | | | | | | | | ON | REQUEST | |
|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|---------|--|
| SIZES | 150 | 162 | 200 | 213 | 250 | 267 | 300 | 318 | 350 | 400 | |

VERTER VAIVE - DILIG TVD

SPTD

SINGLE PIPE PLUG DIVERTER - SPTDS











SPTDS

| PRESSURE | Static -o.5 up to +1 bar |
|--------------------------|--|
| PRODUCT TEMPERATURE °C | Standard -20° up to +80° |
| AMBIENT TEMPERATURE °C | Standard -20° up to +40° |
| MATERIAL OF CONSTRUCTION | Aluminium body-plug-cover |
| | Option: Hard anodised, stainless steel inserts |
| FLANGE DRILLED TO | Round: to drawing |
| SEAL | Static: silicone |
| ATEX 2014/34/EU | 1D / 2GD Equipment |
| REMARK | Diverging only |

| SIZES 50 65 80 100 11 |
|------------------------------|
|------------------------------|

DIVERTER VALVE - PLUG TYPE

SPTDS

2-PORT TUBE DIVERTER - 2-TDV













2-TDV

| PRESSURE | Static up to +1 bar |
|--------------------------|--|
| | Inflatable -o,8 up to +3 bar |
| PRODUCT TEMPERATURE °C | -20° up to +100° (+130° for short term only) |
| AMBIENT TEMPERATURE °C | Standard -20° up to +40° |
| MATERIAL OF CONSTRUCTION | Cover: Aluminium / Stainless steel 316L |
| | Tube: Stainless steel 316L |
| | Protection cover: Stainless steel 316L |
| PIPE | Imperial |
| SEAL | Static: silicone / Inflatable: EPDM |
| USDA | Optional |
| ATEX 2014/34/EU | 1D / 2GD Equipment |

| SIZES | 40 | 50 | 65 | 80 | 100 | 125 | 150 | |
|-------|----|----|----|----|-----|-----|-----|--|
| 31223 | 40 | 50 | 05 | 00 | 100 | 120 | 150 | |

DIVERTER VALVE - TUBE TYPE

2-TDV

3-PORT TUBE DIVERTER - 3-TDV













3-TDV

| PRESSURE | Inflatable -o,8 up to +3 bar | | | | | |
|--------------------------|--|--|--|--|--|--|
| PRODUCT TEMPERATURE °C | -20° up to +100° (+130° for short term only) | | | | | |
| AMBIENT TEMPERATURE °C | Standard -20° up to +40° | | | | | |
| MATERIAL OF CONSTRUCTION | Cover: Aluminium / Stainless steel 316L | | | | | |
| | Tube: Stainless steel 316L | | | | | |
| | Protection cover: Stainless steel 316L | | | | | |
| PIPE | Imperial | | | | | |
| SEAL | Inflatable: EPDM | | | | | |
| USDA | Optional | | | | | |
| ATEX 2014/34/EU | 1D / 3D Equipment | | | | | |

| SIZES 40 50 65 80 100 125 19 |
|-------------------------------------|
|-------------------------------------|

DIVERTER VALVE - TUBE TYPE

3-TDV

MULTI PORT TUBE DIVERTER - M-TDV













M-TDV

| PRESSURE | Inflatable -o,8 up to +3 bar |
|--------------------------|---|
| PRODUCT TEMPERATURE °C | -20° up to +100° (+130° for short term only) |
| AMBIENT TEMPERATURE °C | Standard -20° up to +40° |
| MATERIAL OF CONSTRUCTION | Cover: Aluminium / Stainless steel 316L |
| | Tube: Stainless steel 316L |
| | Protection cover: Stainless steel 316L |
| PIPE | Imperial |
| SEAL | Inflatable: EPDM |
| USDA | Optional |
| ATEX 2014/34/EU | 1D / 2GD Equipment |
| REMARK | Specify mounting position and function on order. Upwards conveying while diverging is not recommended |

| SIZES | 40 | 50 | 65 | 80 | 100 | 125 | 150 |
|-----------------|------------|------------|------------|------------|------------|-----------|-----------|
| NUMBER OF PORTS | 4 up to 14 | 4 up to 13 | 4 up to 12 | 4 up to 11 | 4 up to 10 | 4 up to 8 | 4 up to 7 |

VERTER VALVE - TUBE '

M-TDV

GRAVITY PLUG DIVERTER - GPD











GPD

| PRESSURE | No pressure | |
|--------------------------|---|--|
| PRODUCT TEMPERATURE °C | Standard -20° up to +80° | |
| AMBIENT TEMPERATURE °C | Standard -20° up to +40° | |
| MATERIAL OF CONSTRUCTION | Body-cover: | Plug: |
| | Cast Iron / Aluminium / Stainless steel 316 | Mild steel / Hardox / Stainless steel 316L |
| FLANGE HOLE PATTERN | DIN PN 10 / ANSI 150 lbs | |
| SEAL | No seal | |
| | | |

| SIZES | 150 | 200 | 250 | 300 |
|-------|-----|-----|-----|-----|

VERTER VALVE - PLUG TYP

GPD

FLAP TYPE DIVERTER - FDV











FDV

| PRESSURE | -0.3 up to +2 bar | | | | |
|--------------------------|---|-----------------------------------|--|--|--|
| PRODUCT TEMPERATURE °C | Standard -25° up to +80° (Optional up to +150°) | | | | |
| AMBIENT TEMPERATURE °C | Standard -20° up to +40° | | | | |
| MATERIAL OF CONSTRUCTION | Body: | Pipe: | | | |
| | Cast Iron / Aluminium / Stainless steel 316 | Mild steel / Stainless steel 304L | | | |
| FLANGE HOLE PATTERN | DIN PN 10 / ANSI 150 lbs | | | | |
| PIPE | Metric | | | | |
| SEAL | Static: Polyurethane / Silicone | | | | |
| ATEX 2014/34/EU | 1D / 2GD Equipment | | | | |

| 50 | 65 | 80 | 100 | 125 | 150 | 200 | 250 | |
|----|----|-------|----------|--------------|------------------|----------------------|--------------------------|------------------------------|
| | | | | | | | | |
| | 50 | 50 65 | 50 65 80 | 50 65 80 100 | 50 65 80 100 125 | 50 65 80 100 125 150 | 50 65 80 100 125 150 200 | 50 65 80 100 125 150 200 250 |

BALL TYPE DIVERTER - BTD







BTD

| PRESSURE | -o.5 up to +6 bar | | |
|--|---|--|--|
| PRODUCT TEMPERATURE °C | Standard -25° up to +80° (optional up to +150°) | | |
| AMBIENT TEMPERATURE °C | Standard -20° up to +40° | | |
| MATERIAL OF CONSTRUCTION Ductile spheroidal cast iron GS 500/7 | | | |
| FLANGE HOLE PATTERN | DIN PN 10 / ANSI 150 lbs | | |
| SEAL | Static: Polyurethane | | |
| | Option: Viton (HT) / Silicone | | |
| ATEX 2014/34/EU | 1D / 2GD Equipment | | |
| REMARK | Horizontal mounting is not recommended | | |

| SIZES | 65 | 80 | 100 | 125 | 150 | 200 | 250 | |
|-------|----|----|-----|-----|-----|-----|-----|--|
| 312E3 | 05 | 00 | 100 | 125 | 150 | 200 | 250 | |



OTHERS

OTHERS



Morris Couplings

Morris couplings provide an economical connecting method of joining conveying pipes together. The range serves the pneumatic conveying industry with a complete line of precision quality coupling and tubing products. They can be used in both pressure and vacuum applications.

- ✓ The original compression coupling
- ✓ Easy to install
- ✓ Substantial and reliable construction
- ✓ Competitive pricing
- ✓ Electrical conductivity guaranteed
- ✓ Available for practically every pipe diameter



Pressure Relief Valve

- ✓ Reliable
- ✓ Compact form
- ✓ Maintenance free
- ✓ Use of non corrosive materials
- \checkmark Easy disassembling and inspection



Discharge Unit

- Prevents bridging of product at the hopper outlet
- ✓ Smooth flow of material
- ✓ Maximum discharge efficiency
- Cast housing, explosion proof construction
- ✓ Compact forms
- ✓ Easy clean features
- ✓ No separation of premixed product



Magnetic Separator

Our high intesity magnetic separators consist of easy cleaned housed grid, that offer unsurpassed levels of contimaniation removal. Removing sub-micron ferrous and para-magnetic contamination from the most demanding and arduous of process environments.

- ✓ Easy to clean
- ✓ High collection capacity
- Removes micron sized contaminants
- ✓ Reduces 'spark' risk



Maintenance Gate

- ✓ Flange patterns are customizable to match up with equipment above and below the gate
- ✓ Narrow profile for limited space installations
- ✓ No metal-on-metal contact
- Designed to close through a standing column of material in the case of an upset condition
- ✓ Positive seal to atmosphere
- ✓ Light-weight construction for easy installation
- ✓ Well-suited for handling corrosive materials
- Constructed from durable metals & polymers, for improved performance and prolonged service life



INDUSTRIES

ROTARY VALVES

| | AL AXL | AML | USAL | BL BXL BXXL | MLD MALD | SAL | GL | MZC | DL |
|----------------|-----------|----------|----------|-------------------|-------------|-----|----|----------|----|
| FOOD | ~ | ~ | ~ | ~ | ~ | ~ | | ~ | ~ |
| DAIRY | ~ | ~ | | ~ | | ~ | | ~ | |
| ANIMAL FEED | ~ | ~ | ~ | ~ | ~ | ~ | | ~ | ~ |
| PHARMA | ~ | ~ | ~ | ~ | ~ | ~ | | ~ | ~ |
| PLASTICS | ~ | ~ | ~ | ~ | ~ | | ~ | ~ | ~ |
| PETRO-CHEMICAL | ~ | ~ | ~ | ~ | ~ | | ~ | ~ | ~ |
| MINERAL | ~ | ~ | ~ | ~ | ~ | | | ~ | ~ |
| POWER/BIOMASS | ~ | ~ | ~ | ~ | ~ | | | ~ | ~ |
| RECYCLING | ~ | ~ | ~ | ~ | ~ | | ~ | | ~ |

✓ RECOMMENDED
 ✓ SOMETIME USED
 X NOT RECOMMENDED

DIVERTER VALVES

| | PTD-II | SPTD | SPTDS | 2-TDV 3-TDV | M-TDV | GPD | FDV | BTD |
|----------------|--------|----------|----------|----------------|-------|----------|----------|-----|
| FOOD | | ~ | ~ | ~ | ~ | ~ | ~ | |
| DAIRY | ~ | ~ | ~ | ~ | ~ | ~ | ~ | |
| ANIMAL FEED | ~ | ~ | ~ | ~ | ~ | ~ | ~ | ~ |
| PHARMA | ~ | ~ | ~ | ~ | ~ | ~ | | |
| PLASTICS | ~ | ~ | ~ | ~ | ~ | ~ | ~ | |
| PETRO-CHEMICAL | ~ | ~ | ~ | ~ | ~ | ~ | ~ | |
| MINERAL | ~ | ~ | ~ | | | ~ | ~ | ~ |
| POWER/BIOMASS | ~ | ~ | ~ | | | ~ | ~ | ~ |
| RECYCLING | ~ | ~ | ~ | | | ~ | ~ | ~ |



✓ RECOMMENDED
 ✓ SOMETIME USED
 X NOT RECOMMENDED

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In certain parts of the process industry it is very important that product contamination is prevented in the process. When dealing with powders, there is also always a danger of dust explosions. In order to protect public health and to ensure safe working conditions, governments have drawn up an official legislation for systems and components. Moreover, private organisations have created specifications that components should comply with, in order to meet the required branch or system-specific requirements.

ATEX | Process systems and components often have to be able to withstand explosions and prevent fires from passing the component. This has resulted in official European legislation, known as the ATEX 2014/34/EU Directive. All DMN rotary valves and diverter valves are also available in ATEX 2014/34/EU compliant versions.

EHEDG | In 2011 DMN-WESTINGHOUSE was awarded the official EHEDG Type EL Class I certificates of compliance for its hygienic CIP rotary valves. The components in question were evaluated for compliance with the Hygienic Equipment Design Criteria of the EHEDG and were declared to meet these criteria. These certificates also enable DMN-WESTINGHOUSE to offer a range of components that are suitable for hygienic 'clean in place' (CIP) processing systems.

USDA | With regards to the USDA (United States Department of Agriculture), our AL, AML and BL rotary valves are tested and certified USDA Dairy Accepted. This also applies to our 2- and 3-TDV tube diverters, M-TDV multiport diverter and GPD gravity plug diverter.

This means that these components meet the high standards that apply in the US food, dairy, pet food and other related industries.

EC 1935/2004 FDA | The European regulation EC 1935/2004 applies to all food contact materials. With regard to the use of these materials as parts in our components, we can supply a declaration of compliance and appropriate documentation that demonstrate compliance to the EC 1935/2004 regulation and its supporting regulations EC 10/2011 and EC 2023/2006. The materials used also conform to FDA regulations with regard to food contact.

EAC | EAC is a certification mark which indicates that the products conform to all technical regulations of the Eurasian Customs Union and is a guarantee that the products marked with it comply with health, safety, and environmental protection standards. All DMN-WESTINGHOUSE rotary valves and diverter valves comply with the corresponding technical requirements of the EAEU (Eurasian Economic Union) and have passed all conformity assessment procedures.