



**PRODUCT RANGE**



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The Netherlands  
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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 with no involvement in system design, our sole activity is to develop, manufacture and sell these components.

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# ROTARY VALVES

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, sp-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.

# ROTARY VALVE - AL / AXL

ROTARY VALVE - HIGH DUTY (OUTBOARD BEARING)



USDA

FDA



## AL / AXL

PRESSURE	Up to 2 bar
PRESSURE SHOCK RESISTANT	Up to 10 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 <sub>max</sub> )

## AL

## AXL

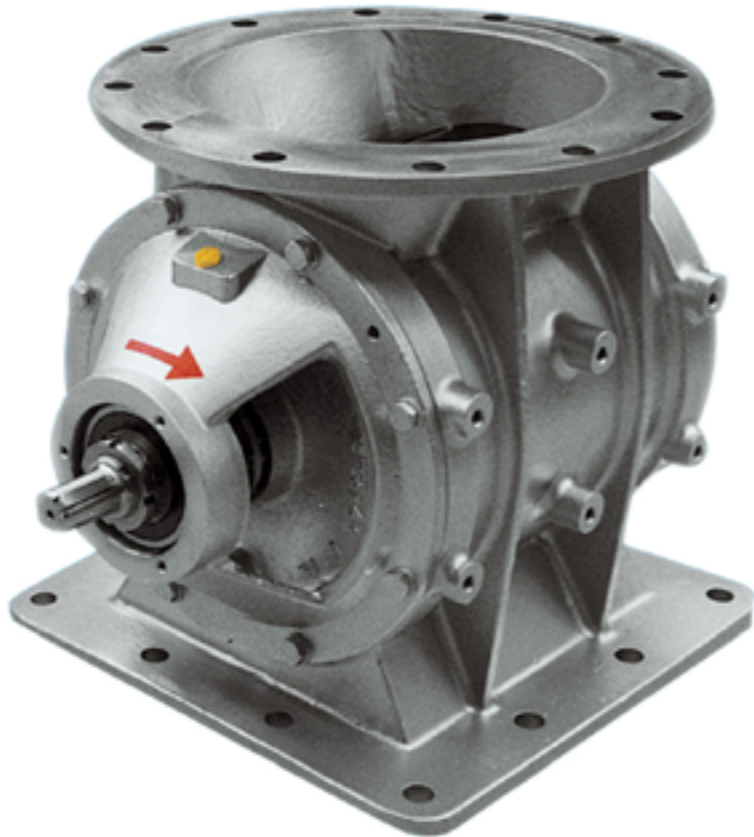
MZC	Cast iron / Stainless steel only	Yes
MATERIAL OF CONSTRUCTION	Cast iron Stainless steel 316 Aluminium Ni-hard	Stainless steel 316
COATING	Chrome or Nickel plating Tungsten carbide Hard anodising	On request
FLANGE HOLE PATTERN	DIN PN10 / ANSI 150 (AL 100 DIN PN6)	DIN PN10 / ANSI 150

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

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

# ROTARY VALVE - AML

ROTARY VALVE - HIGH DUTY (OUTBOARD BEARING)



USDA

FDA



## AML

PRESSURE	Up to 2 bar
PRESSURE SHOCK RESISTANT	Up to 10 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
COATING	Stainless steel 316
	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 <sub>max</sub> )

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



# ROTARY VALVE - USAL

ROTARY VALVE - HIGH DUTY (OUTBOARD BEARING)



## USAL

PRESSURE	Up to 2 bar
PRESSURE SHOCK RESISTANT	Up to 10 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 <b>USAL</b>	203,2 (8")	254 (10")	304,8 (12")
LTR/REV AT 100% FILLING	5,5	10,5	19



# BLOWING SEAL - BL / BXL / BXXL

ROTARY VALVE - HIGH DUTY (OUTBOARD BEARING)



USDA

FDA



## BL / BXL / BXXL

PRESSURE	Up to 2 bar
PRESSURE SHOCK RESISTANT	Up to 10 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 <sub>max</sub> )

## BL

## BXL

## BXXL

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

The BXL and BXXL valves 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 ROTARY VALVE - MLD



ROTARY VALVE - HIGH DUTY (OUTBOARD BEARING)



## MLD

PRESSURE	Up to 1 bar
PRESSURE SHOCK RESISTANT	Up to 10 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

# MEDIUM DUTY ROTARY VALVE - MALD

ROTARY VALVE - MEDIUM DUTY (INBOARD BEARING)



## MALD

PRESSURE	Up to 1 bar
PRESSURE SHOCK RESISTANT	Up to 10 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 ROTARY VALVE - SAL



SANITARY ROTARY VALVE



## 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 0.8 (150 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 ROTARY VALVE - 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

DUST FILTER ROTARY VALVE



## 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

## EXECUTION 1

## EXECUTION 1EX

ATEX 2014/34/EU	1D/2GD Equipment	1D/2GD Equipment / Protective system St.2 Steel blades (3 bar p <sub>max</sub> ) Polyurethane blades (2 bar p <sub>max</sub> )
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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



## 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



Dairy / Dairy WD



# ROTARY VALVES TABLES

## FILLING CAPACITY\* VERSUS SIZE

MM/INCH"	50 / 2"	65 / 2.5"	80 / 3"	100 / 4"	150 / 6"	175 / 7"	200 / 8"	250 / 10"	300 / 12"	350 / 14"	400 / 16"	450 / 18"	500 / 20"
AL-BL				0.8 / 0.028	2.5 / 0.08	5.5 / .19	10.5 / .37	19 / .67	34 / .1.2	58 / 2.05	91 / 3.21	135 / 4.77	230 / 8.12
AML				0.8 / 0.028	2.5 / 0.08		5.5 / .19	10.5 / .37	19 / .67	34 / .1.2	58 / 2.05		
AXL-BXL							5.5 / .19	10.5 / .37	19 / .67	34 / .1.2			
BXXL										19 / .67			
SAL	0.07 / .002	0.13 / .005	0.25 / .009	0.8 / 0.028	2.5 / 0.08								
MLD				0.8 / 0.028	2.5 / 0.08		5.5 / .19	10.5 / .37	19 / .67	34 / .1.2	58 / 2.05		
MALD					2.5 / 0.08	5.5 / .19	10.5 / .37	19 / .67	34 / .1.2	58 / 2.05			
DL							6 / .21	8.5 / .3	19 / .67				

LTR./FT\*

\* BASED ON LITRE / FT³ PER REVOLUTION AT 100% FILLING

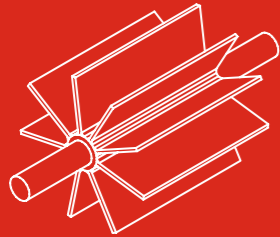
## SIZE VERSUS FILLING CAPACITY\*

LTR./FT*	.07 / .002	.13 / .005	.25 / .009	.8 / .0028	2.5 / .008	5.5 / .19	6 / .21	8,5 / .30	10.5 / .37	19 / .67	34 / 1.2	58 / 2.5	91 / 3.21	135 / 4.77	230 / 8.12
AL-BL				100 / 4"	150 / 6"	175 / 7"			200 / 8"	250 / 10"	250 / 10"	250 / 10"	400 / 16"	450 / 18"	500 / 20"
AML				100 / 4"	150 / 6"	200 / 8"			250 / 10"	300 / 12"	250 / 10"	400 / 16"			
AXL-BXL						200 / 8"			250 / 10"	300 / 12"	250 / 10"				
BXXL										350 / 14"					
SAL	50 / 2"	65 / 2.5"	80 / 3"	100 / 4"	150 / 6"										
MLD				100 / 4"	150 / 6"	200 / 8"			250 / 10"	300 / 12"	350 / 14"	400 / 16"			
MALD					150 / 6"	175 / 7"			200 / 8"	250 / 10"	300 / 12"	350 / 14"			
DL							200 / 8"	250 / 10"		300 / 12"					

MM/INCH"



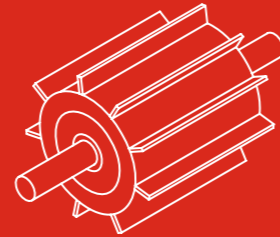
# ROTOR OPTIONS



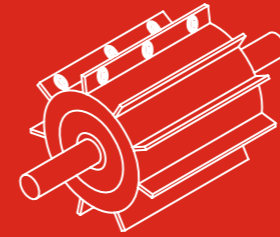
**FIXED BLADES**



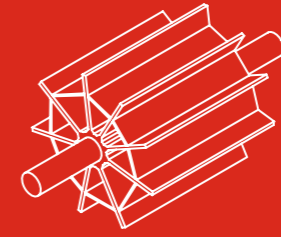
**REPLACEABLE AND  
ADJUSTABLE BLADES**



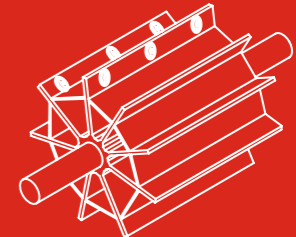
**REDUCED CAPACITY  
FIXED BLADES**



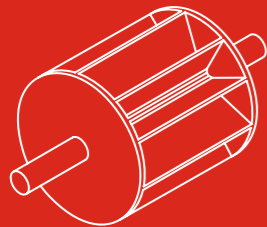
**REDUCED CAPACITY REPLACEABLE  
AND ADJUSTABLE BLADES**



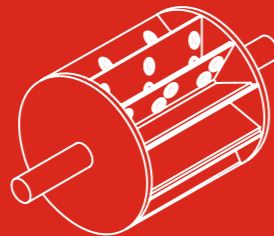
**REDUCED CAPACITY  
OPEN END FIXED BLADES**



**RC OPEN END REPLACEABLE  
AND ADJUSTABLE BLADES**



**END DISC FIXED BLADES**



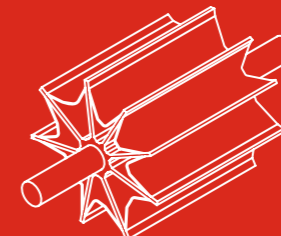
**END-DISC REPLACEABLE  
AND ADJUSTABLE BLADES**



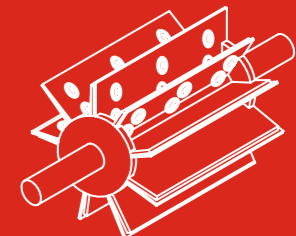
**SCALLOPED**



**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	ADJUSTABLE 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
3N	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
4TCO	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	SP-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**

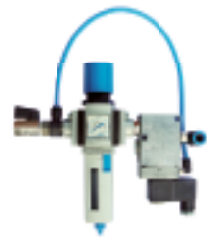


**Vent box**



**Rotor Interference Detection**

Special control unit of DMN-Westinghouse design, used to monitor rotor to housing contact. The RID can be installed to minimize damage to the rotary valve and warn of possible contamination of the conveyed product.



**Pressure regulator for all purged seals**



**Dropout box**



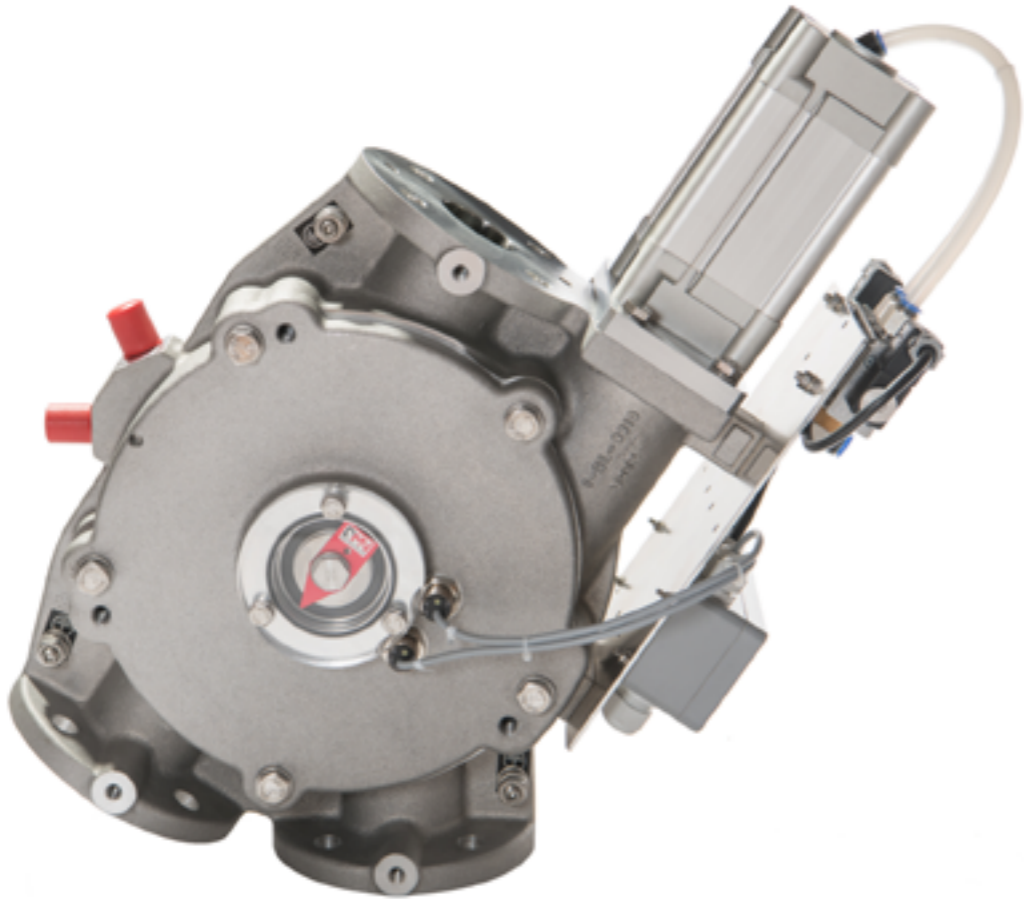
**Toolkit**

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 properly replace the bearings of your rotary valve in the right way for a perfectly functioning valve.

# DIVERTER VALVES

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

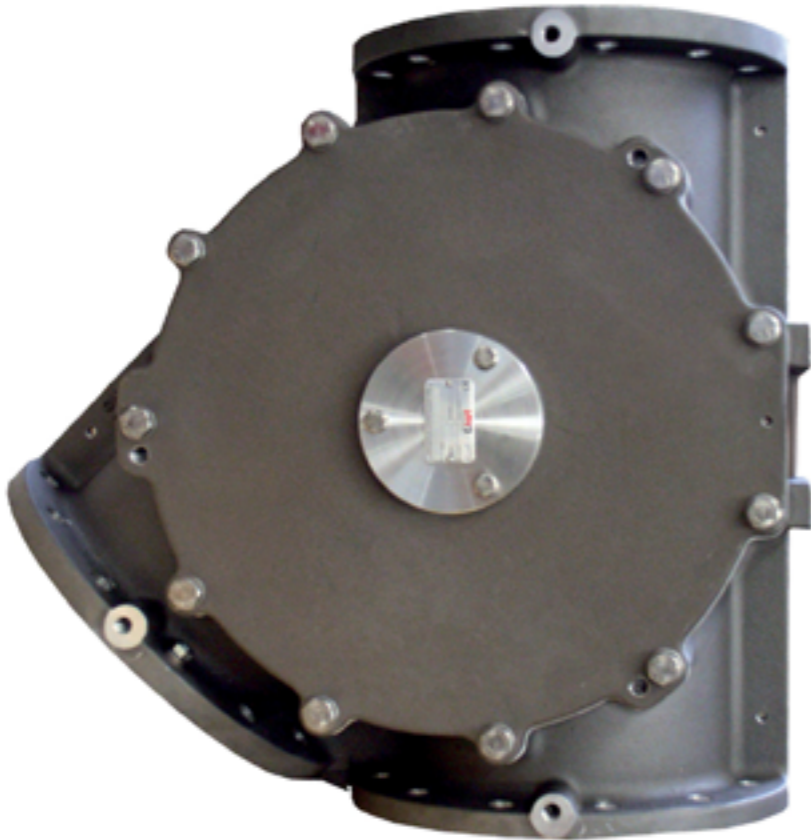
<b>PRESSURE</b>	Static -0.7 up to +3 bar Inflatable up to +6 bar
<b>PRODUCT TEMPERATURE °C</b>	Standard -20° up to +80° (Optional up to +120°)
<b>AMBIENT TEMPERATURE °C</b>	Standard -20° up to +60° ATEX -20° up to +40°
<b>MATERIAL OF CONSTRUCTION</b>	Aluminium body-plug-cover Stainless steel inserts
<b>FLANGE HOLE PATTERN</b>	DIN PN 10 / ANSI 150 lbs
<b>SEAL</b>	Static: silicone / polyurethane Inflatable: silicone
<b>ATEX 2014/34/EU</b>	1D / 2GD Equipment

<b>SIZES</b>	50	65	80	100	125	150	200
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<b>FLOW DIRECTION</b>	50	65	80	100	125	150	200
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# SINGLE PIPE PLUG DIVERTER - SPTD

DIVERTER VALVE - PLUG TYPE



## SPTD

PRESSURE	Static -0.5 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

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

# SINGLE PIPE PLUG DIVERTER - SPTDS



## SPTDS

PRESSURE	Static -0.5 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	125
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# 2-PORT TUBE DIVERTER - 2-TDV

DIVERTER VALVE - TUBE TYPE



USDA

FDA



## 2-TDV

PRESSURE	Static up to +1 bar
	Inflatable -0,8 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
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# 3-PORT TUBE DIVERTER - 3-TDV



DIVERTER VALVE - TUBE TYPE



## 3-TDV

PRESSURE	Inflatable -0,8 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	150
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# MULTI PORT TUBE DIVERTER - M-TDV



DIVERTER VALVE - TUBE TYPE



EC 1935/2004

USDA

FDA



## M-TDV

PRESSURE	Inflatable -0,8 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

# GRAVITY PLUG DIVERTER - GPD

DIVERTER VALVE - PLUG TYPE



## 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		
ATEX 2014/34/EU	1D / 2GD Equipment		

SIZES	150	200	250	300
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# FLAP TYPE DIVERTER - FDV



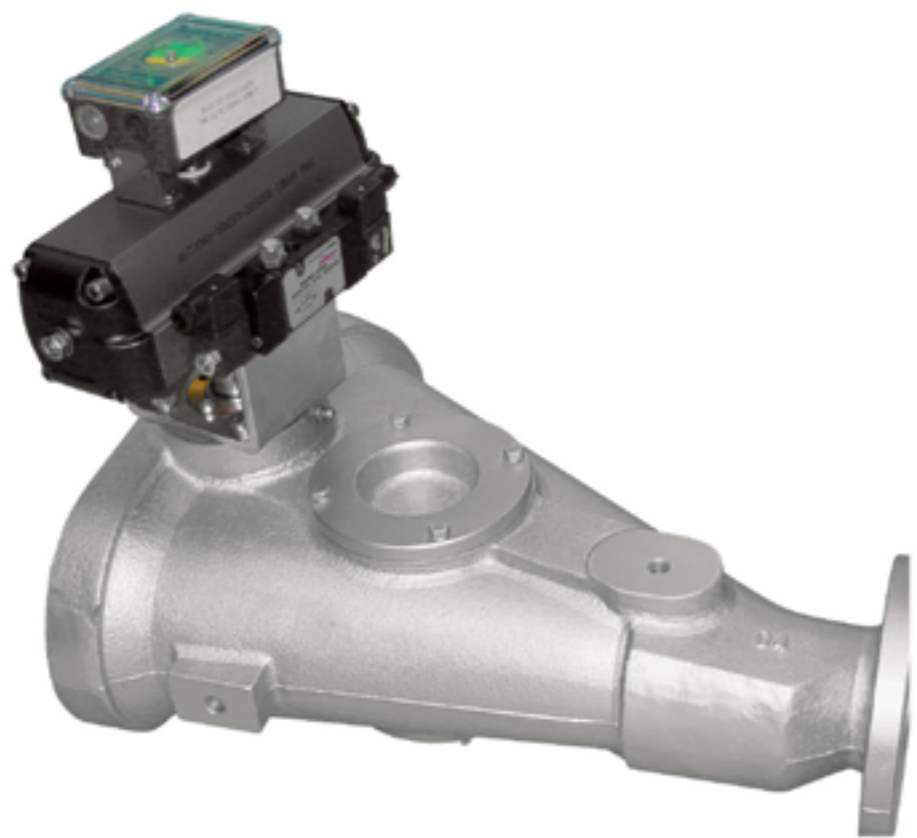
## FDV

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	

SIZES	50	65	80	100	125	150	200	250
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# BALL TYPE DIVERTER - BTD



## BTD

PRESSURE	-0.5 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
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# 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
- × Easy disassembling and inspection

# 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   ✗ NOT RECOMMENDED

## DIVERTER VALVES

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

✓ RECOMMENDED   ✓ SOMETIME USED   ✗ NOT RECOMMENDED

# DMN-WESTINGHOUSE

## OFFICES WORLDWIDE



4

5

1

2

3

6

**1**

### THE NETHERLANDS

#### DMN-WESTINGHOUSE

Gieterij 3,  
2211 WC Noordwijkerhout  
+31 252 361 800  
[sales@dmnwestinghouse.com](mailto:sales@dmnwestinghouse.com)

**2**

### GERMANY

#### DMN SGT GMBH

Lanzstraße 1,  
D-21244 Buchholz  
+49 4181 9314 0  
[dmn.sgt@dmnwestinghouse.com](mailto:dmn.sgt@dmnwestinghouse.com)

**3**

### FRANCE

#### DMN FRANCE SAS

Abbaye Royale de Yerres 20  
F-91330 Yerres  
+33 1 69 49 85 70  
[contact.fr@dmnwestinghouse.com](mailto:contact.fr@dmnwestinghouse.com)

**4**

### USA

#### DMN INC.

220 South Woods, West  
Memphis, AR 72301  
+1 870 733 9100  
[sales.us@dmnwestinghouse.com](mailto:sales.us@dmnwestinghouse.com)

**5**

### UK

#### DMN UK LTD

9 Harris Road,  
Wiltshire, SN11 9PT  
+44 1249 818 400  
[dmn.uk@dmnwestinghouse.com](mailto:dmn.uk@dmnwestinghouse.com)

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### INDIA

#### DMN INDIA PRIVATE LIMITED

2<sup>nd</sup> Floor, No. 28 GNT Road | SF No. 58/2A,  
Thandalkalani, Puzhal, Triuvallar,  
Chennai – 600066, Tamil Nadu,  
+91 9940482573  
[india@dmnwestinghouse.com](mailto:india@dmnwestinghouse.com)



# LEGISLATION

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.

**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.

**NFPA 69** | The National Fire Protection Association (NFPA) provides regulations to protect your manufacturing plant from fires, deflagrations, explosions, and other safety risks. Our NFPA 69 compliant rotary valves have particular design and construction elements. Under NFPA 69 Section 12.2.3.2 for Rotary Valve Design Criteria, the following

models are offered with NFPA 69 compliance: AL/AXL, AML, BL/BXL/BXXL, and USAL.

**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.



**USDA**

**FDA**



