

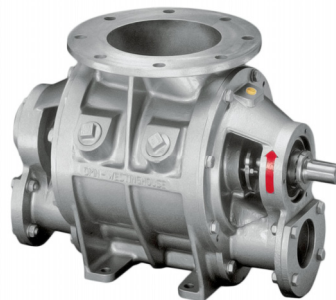
>> NON-DEMOUNTABLE ROTARY VALVE

>> FEATURES:

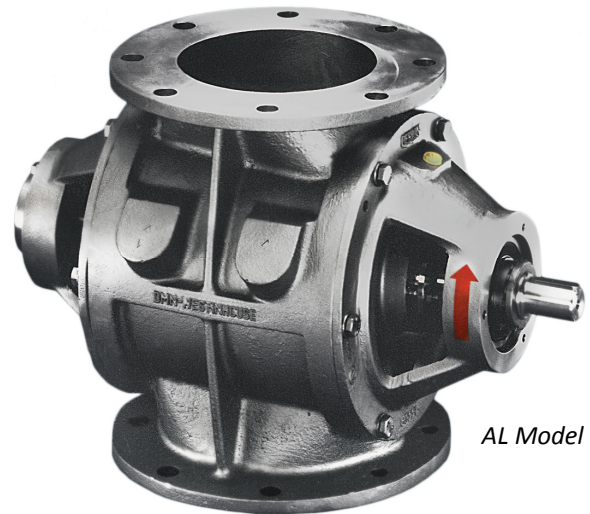
- High filling efficiency
- Shared angle inlet
- Minimum air leakage
- Explosion proof models available up to 145 PSI
- Customized solutions
- Bored flanges in accordance with PN 10, ANSI 150 lbs. and JIS
- Flameproof versions available suitable for St2 products
- Versions conforming to ATEX 94/9/EC available

AL-BL Valves

The AL airlocks and BL blow through valves have been designed 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.



BL Model



AL Model

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).

Product Information

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 easily detachable in a few minutes and meet the highest sanitary standards.

The AL valves are available in 10 consecutive sizes from 100-500, covering a capacity range of the rotor from .03 to 8.12 CFR 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.

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

Standard models are suitable for products up to a temperature of 302° F and a maximum pressure differential of 29 PSI. Special configurations are available to accommodate temperatures between -328° f and 1652° F. Configurations pressure shock resistant up to 145 PSI and explosion proof models are also available.

The AL valve is available with an optional body with 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 photograph.

All models offer optimum venting through the large vent holes, standard pre-drilled and plugged on case iron based versions, option on stainless steel and aluminum versions.



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>> NON-DEMOUNTABLE ROTARY VALVE

The AL and BL valves are assembled with the following standard components:

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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
- Aluminum (AL, BL enlarged inlet)

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

Shaft seals

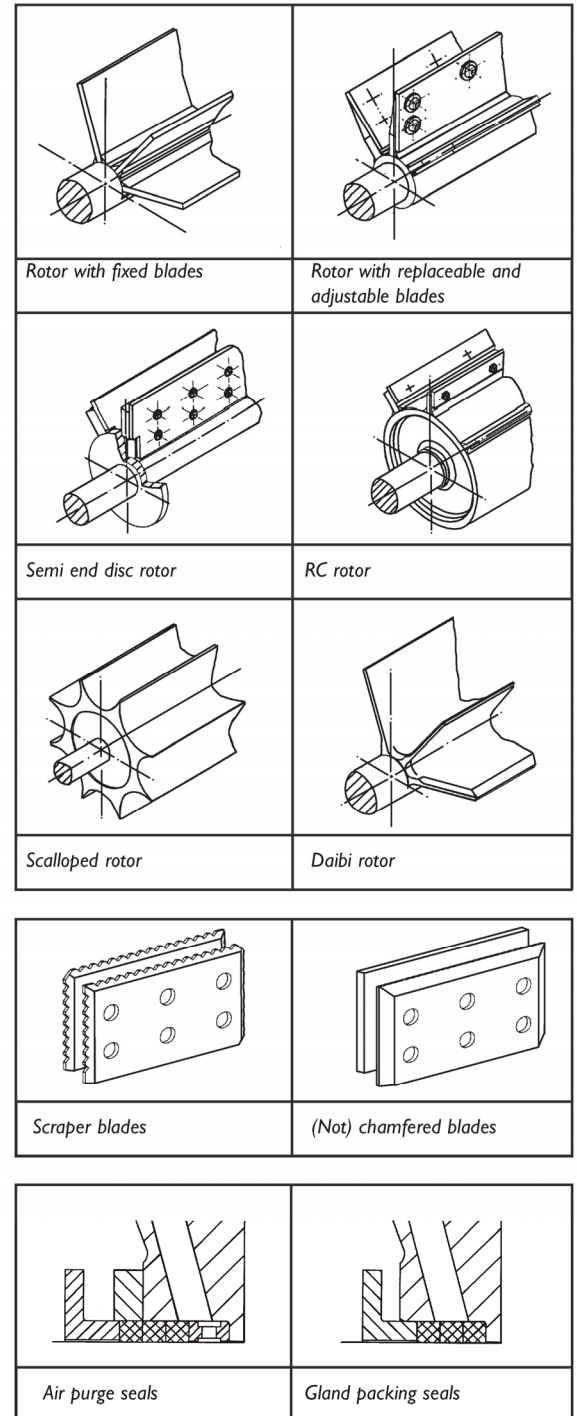
- packing ring or air purged type seals according to customers' requirements

Bearings

- outriggered ball-bearings, sealed for life

Body vents

- standard pre-drilled and plugged on cast iron based versions, optional on stainless steel and aluminum versions



We shall be pleased to send you further detailed documentation concerning our AL/BL range or other DMN products.

Variations on standard components are available

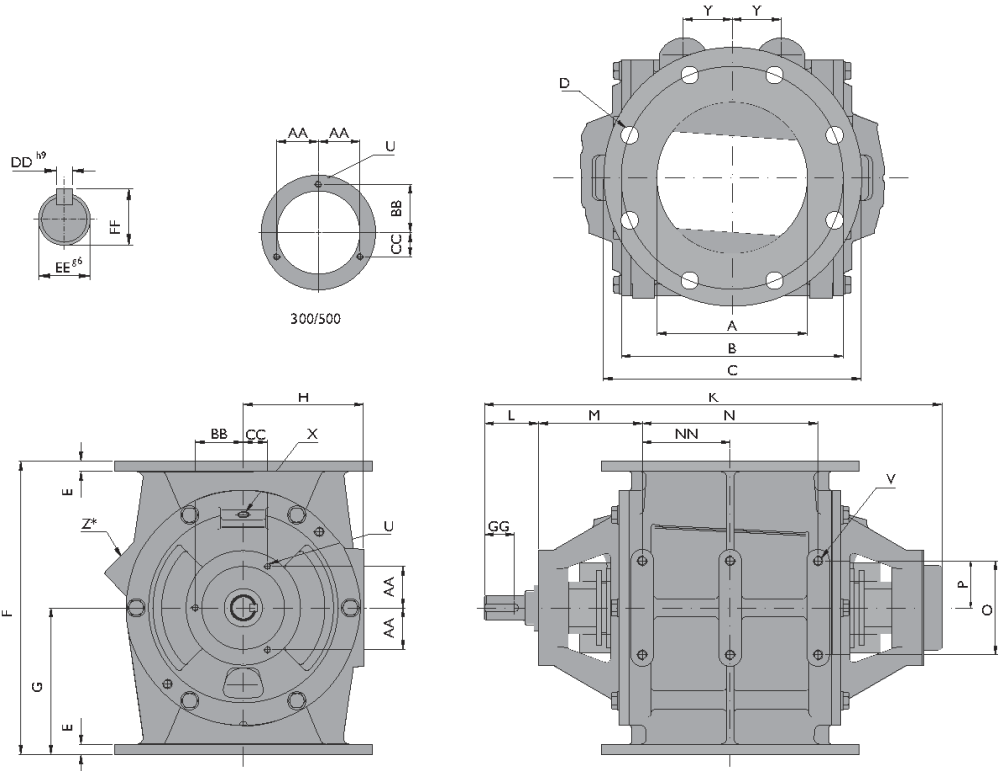


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➤ AL NON-DEMOUNTABLE RV

➤ FEATURES:

- High filling efficiency
- Shared angle inlet
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- Explosion proof models available up to 145 PSI
- Customized solutions
- Bored flanges in accordance with PN 10, ANSI 150 lbs. and JIS
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Type AL	ft ³ /rev	DIN					ANSI					E	F	G	H	K	L	M	N	NN	O
		ØA	ØB	D	ØC	ØB	D														
100	0.03	3.94	6.69	4xØ18	8.27	-	-	0.41	7.09	3.54	3.54	12.91	2.13	3.31	3.54	-	2.95				
150	0.09	5.91	9.45	8xØ0.91	11.22	9.50	8xØ0.87	0.47	11.02	5.51	4.33	19.06	2.36	5.00	5.75	-	3.94				
175	0.19	6.89	10.63	8xØ0.91	12.40	-	-	0.55	12.99	6.50	5.12	20.63	2.36	4.92	7.48	-	3.94				
200	0.37	7.87	11.61	8xØ0.91	13.50	11.75	8xØ0.87	0.55	15.35	7.68	6.30	23.98	7.83	5.43	9.21	-	4.97				
250	0.67	9.84	13.78	12xØ0.91	15.98	14.25	12xØ1.00	0.63	17.72	8.86	7.48	25.94	2.83	5.43	11.18	5.59	4.92				
300	1.20	11.81	15.75	12xØ0.91	19.02	17.00	12xØ1.00	0.83	21.26	10.63	8.86	30.04	2.91	5.91	14.17	7.09	4.92				
350	2.05	13.78	18.11	16xØ0.91	20.87	18.75	12xØ1.12	1.02	25.98	12.99	10.63	32.80	2.91	6.10	16.54	8.27	4.92				
400	3.21	15.75	20.28	16xØ1.02	23.43	21.25	16xØ1.12	1.02	29.53	14.76	12.80	37.17	4.25	6.06	19.69	9.84	7.87				
450	4.77	17.72	22.24	20xØ1.02	24.21	22.75	16xØ1.25	1.02	33.66	16.83	14.96	41.42	4.37	6.69	22.52	11.26	11.81				
500	8.12	19.69	24.41	20xØ1.06	26.38	25.00	20xØ1.25	1.10	37.80	18.90	17.13	45.16	4.33	6.73	25.59	12.80	13.39				

Type AL	P	U	V	X	Y	Z*	AA	BB	CC	DD	EE	FF	GG
100	1.28	2xM6	4xM8	1/8"BSP (Ø10)	-	-	1.38	-	-	0.31	0.98	1.10	1.54
150	1.97	3xM6	4xM10	1/4"BSP (Ø10)	1.57	3/4"BSP	1.46	2.07	1.46	0.31	1.18	1.30	1.42
175	1.97	3xM6	4xM10	1/4"BSP (Ø10)	2.09	1"BSP	1.46	2.07	1.46	0.31	1.18	1.30	1.42
200	2.46	3xM8	4xM12	1/4"BSP (Ø10)	2.56	1 1/4"BSP	2.18	2.52	1.26	0.39	1.26	1.38	1.73
250	2.46	3xM8	6xM12	1/4"BSP (Ø10)	2.95	1 1/4"BSP	2.18	2.52	1.26	0.39	1.26	1.38	1.73
300	2.46	3xM10	6xM12	3/8"BSP (Ø10)	3.74	1 1/4"BSP	2.90	3.35	1.67	0.39	1.50	1.61	1.77
350	2.46	3xM10	6xM12	3/8"BSP (Ø10)	4.41	1 1/4"BSP	2.90	3.35	1.67	0.39	1.50	1.61	1.77
400	3.94	3xM10	6xM16	3/8"BSP (Ø10)	4.92	2"BSP	2.90	3.35	1.67	0.55	1.97	2.13	2.76
450	5.91	3xM10	6xM16	3/8"BSP (Ø10)	6.42	2"BSP	2.90	3.35	1.67	0.71	2.36	2.52	2.76
500	5.12	3xM10	6xM16	3/8"BSP (Ø10)	7.09	2"BSP	3.92	4.53	2.26	0.71	2.36	2.52	2.76

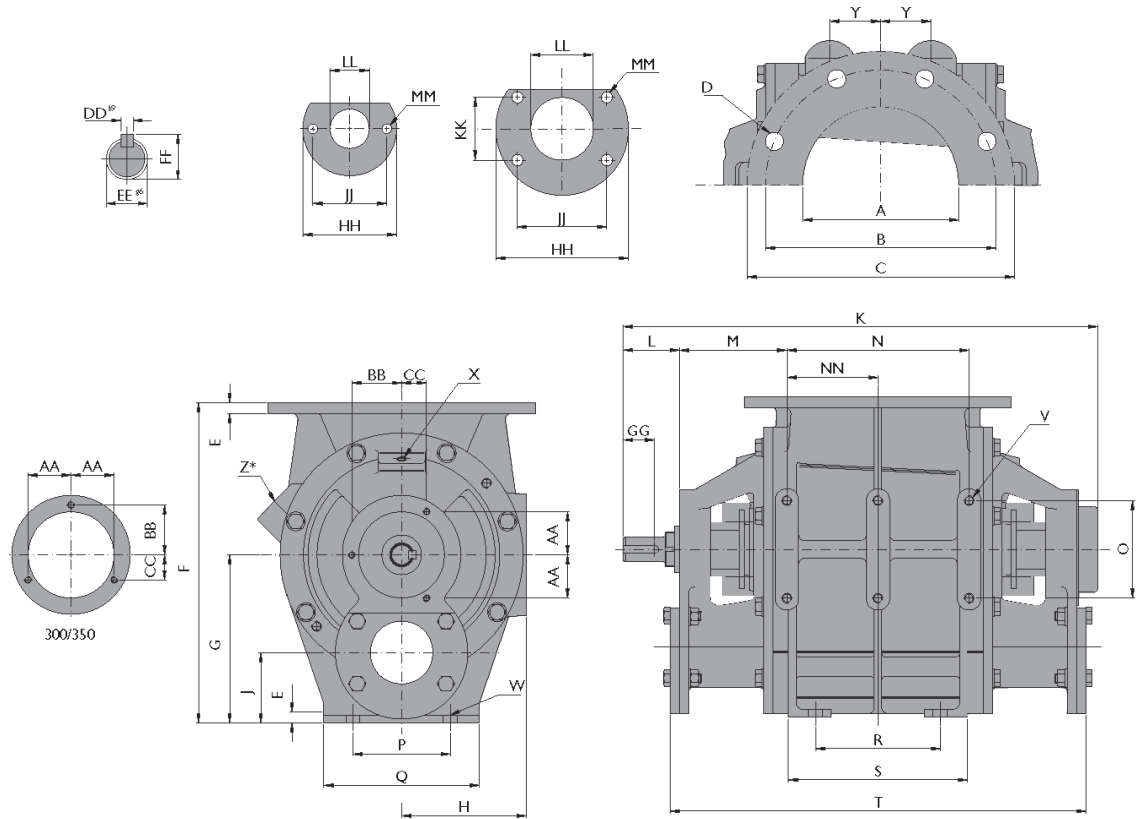


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>> BL NON-DEMOUNTABLE RV

>> FEATURES:

- High filling efficiency
- Shared angle inlet
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- Explosion proof models available up to 145 PSI
- Customized solutions
- Bored flanges in accordance with PN 10, ANSI 150 lbs. and JIS
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Type BL	ft ³ /rev	DIN				ANSI																	
		ØA	ØB	D	ØC	ØB	D	E	F	G	H	J	K	L	M	N	NN	O	P	Q	R		
150	0.09	5.91	9.45	8xØ0.91	11.22	9.50	8xØ0.87	0.47	11.61	6.10	4.33	2.56	19.06	2.36	5.00	5.75	-	3.94	4.33	5.51	3.94		
175	0.19	6.89	10.63	8xØ0.91	12.40	-	-	0.55	13.39	6.89	5.12	2.95	20.63	2.36	4.92	7.48	-	3.94	5.12	6.30	5.12		
200	0.37	7.87	11.61	8xØ0.91	13.50	11.75	8xØ0.87	0.55	16.14	8.46	6.30	3.54	23.98	2.83	5.43	9.21	-	4.92	6.30	7.87	6.30		
250	0.67	9.84	13.78	12xØ0.91	15.98	14.25	12xØ1.00	0.63	18.50	9.65	7.48	3.94	25.94	2.83	5.43	11.18	5.59	4.92	6.69	8.27	7.87		
300	1.20	11.81	15.75	12xØ0.91	19.02	17.00	12xØ1.00	0.83	22.24	11.61	8.86	4.72	30.04	2.91	5.91	14.17	7.09	4.92	7.48	9.45	10.24		
350	2.05	13.78	18.11	16xØ0.91	20.87	18.75	12xØ1.12	1.02	26.18	13.19	10.63	5.20	32.80	2.91	6.10	16.54	8.27	4.92	8.66	10.63	12.20		

Type BL	S	T	U	V	W	X	Y	Z*	AA	BB	CC	DD	EE	FF	GG	HH	JJ	KK	LL	MM
150	6.06	16.54	3xM6	4xM10	4xØ0.47	¼"BSP (Ø10)	1.57	¾"BSP	1.46	2.07	1.46	0.31	1.18	1.30	1.38	4.72	3.74	-	1.97	2xØ0.47
175	7.48	18.11	3xM6	4xM10	4xØ0.55	¼"BSP (Ø10)	2.09	1"BSP	1.46	2.07	1.46	0.31	1.18	1.30	1.38	5.51	4.09	2.38	2.56	4xØ0.47
200	9.06	21.02	3xM8	4xM12	4xØ0.71	¼"BSP (Ø10)	2.56	1¼"BSP	2.18	2.52	1.26	0.39	1.26	1.38	1.69	6.69	4.52	3.16	3.15	4xØ0.55
250	10.79	22.99	3xM8	6xM12	4xØ0.71	¼"BSP (Ø10)	2.95	1¼"BSP	2.18	2.52	1.26	0.39	1.26	1.38	1.69	7.48	4.92	3.94	3.94	4xØ0.55
300	13.78	26.93	3xM10	6xM12	4xØ0.91	¾"BSP (Ø10)	3.74	1½"BSP	2.90	3.35	1.67	0.39	1.50	1.61	1.73	9.06	6.45	4.52	4.92	4xØ0.55
350	16.14	29.68	3xM10	6xM12	4xØ0.91	¾"BSP (Ø10)	4.41	1½"BSP	2.90	3.35	1.67	0.39	1.50	1.61	1.73	9.61	5.98	5.98	5.91	4xØ0.55



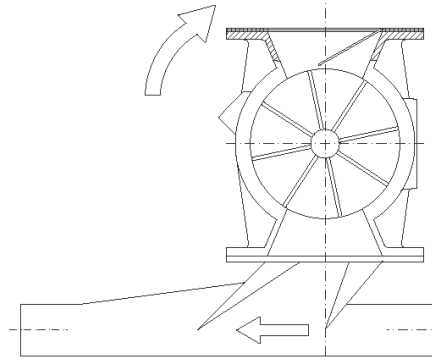
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>> AL-BL ACCESSORIES

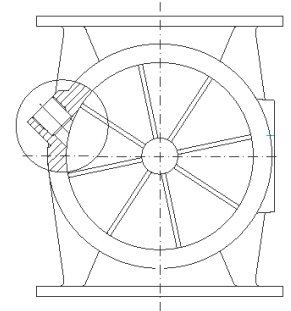
Accessoires:

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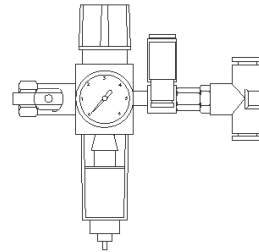
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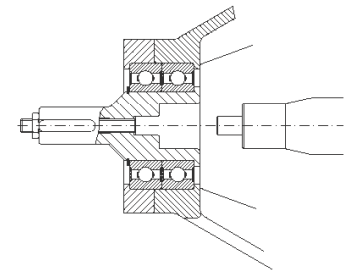
Inlet restrictor and drop out box



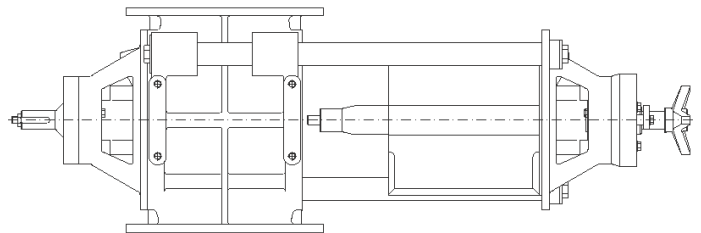
Vent openings in body



Air purge regulation station



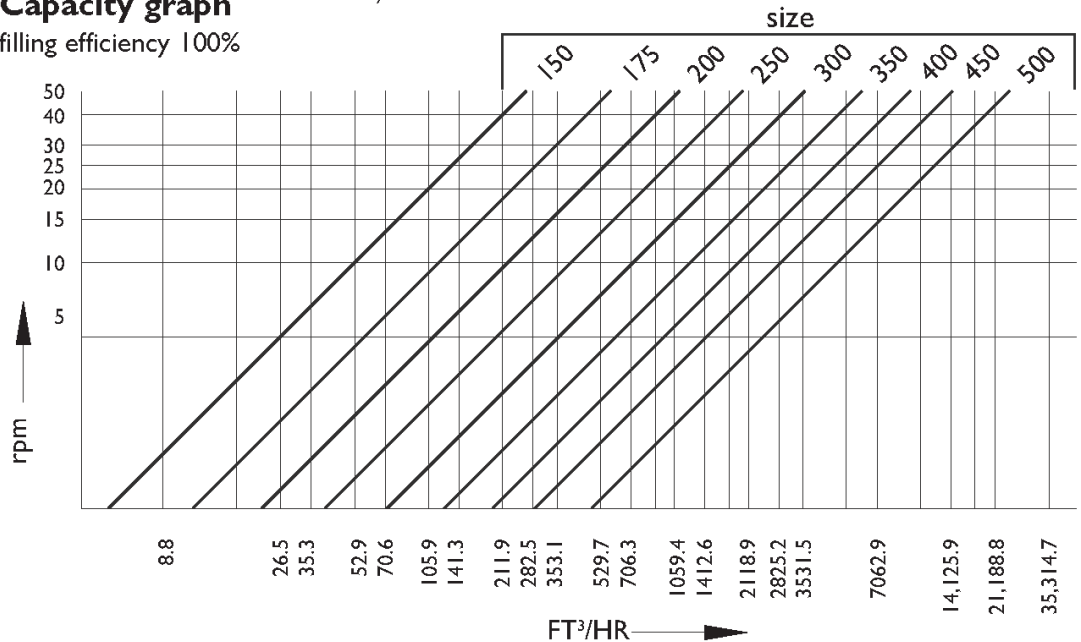
Easy detachable version



Easy detachable MZC version

Capacity graph

filling efficiency 100%



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>> NON-DEMOUNTABLE ROTARY VALVE

Other Valves:

>> FEATURES:

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AL-MZC



BL-DAIRY



AML



GL



DL



MLD-MALD-MGLD



SAL



TDV



M-TDV



PTD



FVV



FDV



GPD



SC



OS / GOS



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