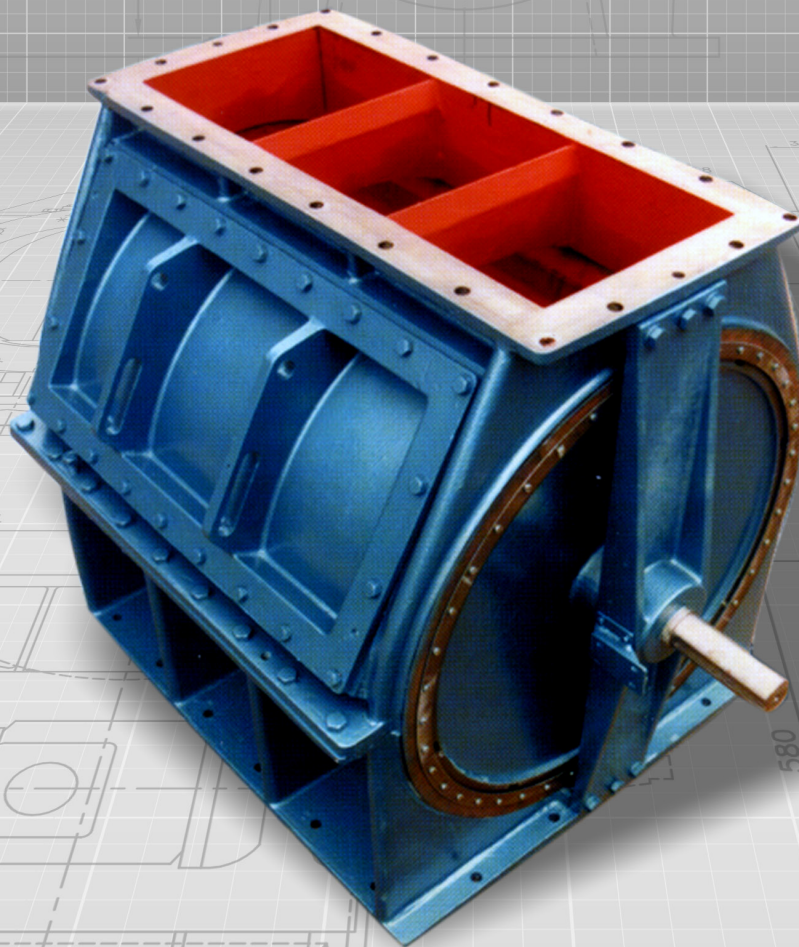




everything under control...



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ODDBALL ROTARY VALVES



INTRODUCTION

This brochure simply outlines Rotolok's range of special sized Rotary Airlocks. However, Rotolok manufactures even more than are listed here, including some round inlets to square outlets and the range is continuously being extended. For full specification, rotor selection and other options please refer to our Rotary Valve & Airlocks brochure. If you require a special valve that does not appear here please contact our sales office as we may design and manufacture to your requirements.

SPECIFICATION

BODIES

Cast Iron, Stainless Steel or Aluminum precision bored

END COVERS

Cast Iron, Stainless Steel or Aluminum spigot located in body for concentricity

ROTOR

Fabricated Mild or Stainless Steel

SHAFT SEAL

Gland type with PTFE packing

BEARINGS

Generally sealed-for-life ball type rigged outboard or high temperature type above 480°F

DRIVE

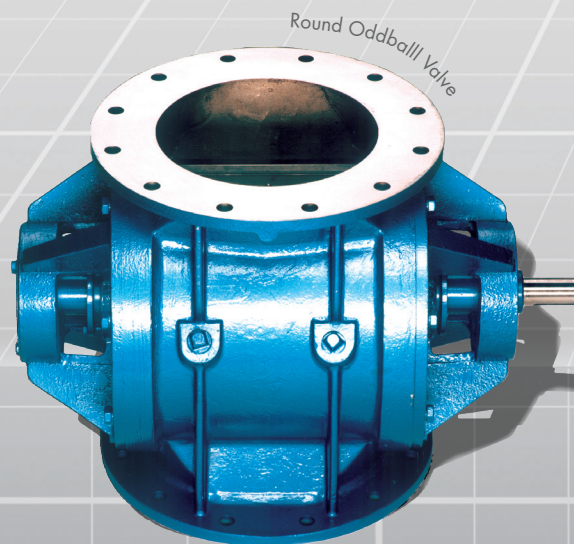
NEMA Frame C-Face TEFC motor mounted to parallel shaft gear reducer sidewall mounted to valve body complete with taper lock sprockets and chain all in an enclosed OSHA approved guard

STANDARD FEATURES

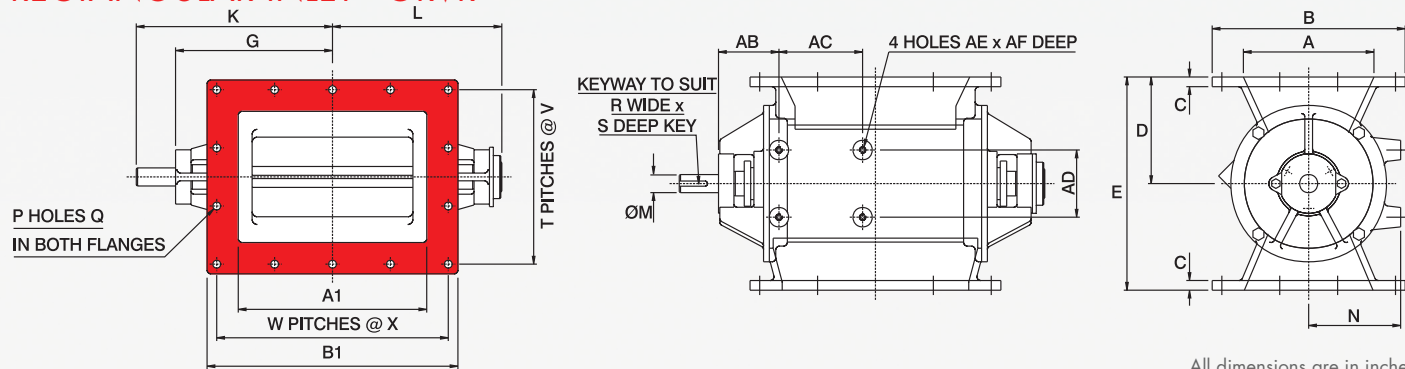
- Maximum number of blades in contact with body at one time without affecting throughput.
- Good throat opening at valve entry allowing for high pocket filling efficiency.
- Minimum clearance at rotor tips and sides with body.
- Heavy shaft diameters minimising deflection.
- Robust body adequately stiffened to prevent distortion.
- Packing gland type seals.
- Outboard bearings for non-contamination.
- Maximising valve speed to 25 RPM prolonging life, ensuring good throughput.
- Precision machining of components.

OPTIONS

- Quick Release Rotors
- Direct Coupled Drives
- Air Purge Glands
- Body Vents
- Dropout Boxes
- V.S. Drives
- Speed Switches
- Flame-proof Motors
- Shear plate Deflectors
- Electroless Nickel Plating
- Hard Chrome Internals etc.

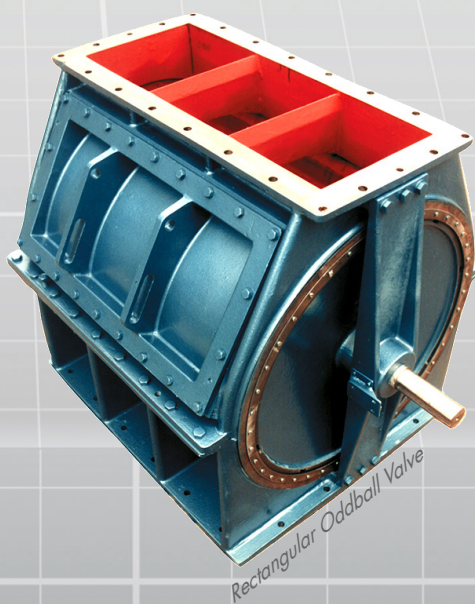


RECTANGULAR INLET - ORVR



All dimensions are in inches

NOMINAL INLET x ØBORE	A	A1	B	B1	C	D	E	G	K	L	M	N	P	Q	R	S	T	V	W	X	AB	AC	AD	AE	AF	ft³/rev	
3 x 12 x 6	3 3/8	11 13/16	5 1/8	13	3/8	3 3/8	6 11/16	9 1/4	12 3/8	10 1/8	28mm	-	6	7/8	8mm	7mm	1	4 1/2	2	5	-	-	-	-	-	0.109	
4 x 4 x 6	4	4	6 3/4	6 3/4	3/8	3 3/4	7 1/2	5 3/4	7 3/4	6 1/2	1	3 3/8	4	1/2	1/4	1/4	1	5 3/4	1	5 1/4	4	3 3/8	6	M10	3/4	0.056	
4 x 6 x 8	4	6	6 1/2	8 3/8	3/8	4 1/4	9 1/2	7 3/8	9 1/4	8	1 1/8	5	8	3/8	1/4	1/4	On Application				4	5	4	M10	3/4	0.189	
9 x 9 x 8	9	9	12	12	3/8	5 5/8	10 3/8	8 3/8	11	9 3/8	1 1/4	5 1/4	12	1/2	1/4	1/4	On Application				3 1/8	5	4	M10	3/4	0.223	
5 x 10 x 8	5	10	8	12 1/4	1/2	5 1/4	10 1/2	8 1/8	11 1/4	9 1/4	1 1/8	5	12	3/8	1/4	1/4	On Application				3 1/8	4 3/8	4 1/8	M10	3/4	0.265	
5 x 12 x 8	5	12	8	14 1/4	1/2	5 1/4	10 1/2	10	12 3/8	10 1/4	1 1/8	5	12	3/8	1/4	1/4	On Application				3 1/8	4 3/8	4 1/8	M10	3/4	0.316	
8 x 18 x 8	7 1/8	18 1/8	11 13/16	22 1/8	3/8	6 1/8	13	13	16 13/16	13 1/4	1 3/8	5 1/4	16	3/8	3/8	3/8	O/A			4	5 1/4	4	6	7	M10	3/4	0.411
8 x 24 x 8	7 1/8	23 1/8	11 13/16	27 1/8	3/8	6 1/8	13	15 1/8	18 1/8	16 1/8	1 3/8	5 1/4	16	3/8	1/4	1/4	O/A			4	6 1/8	3 1/8	5 1/8	4 1/8	M10	3/4	0.554
10 1/2 x 9 1/2 x 9 1/2	9 1/2	10 1/2	16	16	3/8	7 1/8	15	9 3/8	15 3/8	9 3/8	1 1/4	6 1/8	16	3/8	3/8	3/8	4	3 3/8	4	3 3/8	5 1/8	6	7	M10	3/4	0.369	
10 1/2 x 19 x 9 1/2	19	10 1/2	16	25 1/2	3/8	7 1/8	15	14 3/8	20 1/2	14 3/8	1 1/8	6 1/8	20	3/8	3/8	3/8	4	3 3/8	6	4	5 1/2	6	7	M10	3/4	0.727	
9 x 11 x 11	9 3/8	10 3/8	13	14 3/8	3/8	8 1/8	16 1/8	9 3/8	12 3/8	10 3/8	1 1/2	7 1/4	12	1/2	3/8	3/8	3	3 3/8	3	4 3/8	4 1/8	9 1/8	11 1/8	M12	3/4	0.534	
14 x 15 x 12	14	15 1/4	18 1/2	19 3/4	3/8	8 1/4	17 1/4	12	14 3/4	12 3/4	1 3/8	7 3/4	12	3/8	3/8	3/8	On Application				4 3/8	6	7	M10	3/4	0.956	
12 x 48 x 12	12	48	16 1/2	54	3/8	9	18	28 3/8	30 1/8	29 1/8	1 3/8	7 1/4	28	3/8	3/8	3/8	3	5	O/A		3 1/8	6	7	M10	3/4	2.198	
10 x 10 x 12 1/2	9 3/8	9 3/8	14 3/4	14 3/4	3/8	9 3/8	19 1/4	10 3/8	12 1/8	11 1/8	1 1/2	8 3/8	12	3/8	3/8	3/8	3	4 3/8	4	4 3/8	5 3/8	9 1/8	11 1/8	M16	1 1/8	0.731	
10 x 10 x 14	10	10	13	13	1/2	8	16	10 1/2	13 3/8	11 3/8	2	8 3/8	8	7/8	1/2	1/2	2	6	2	6	5 3/8	9 3/8	8	M10	1	0.959	
10 x 14 x 14	9 3/8	13 3/8	13 3/4	17 3/4	1/2	9 3/8	18 3/8	10 3/8	12 1/8	11 3/8	1 3/8	8 3/8	12	1/2	3/8	3/8	3	4 3/8	3	5 1/2	3 3/8	13 3/8	5 1/8	M12	3/4	1.089	
12 x 23 x 18	12	22 3/4	18 3/4	30 3/4	1	12	24	16 1/2	21	17 1/8	2	11 1/4	18	1 1/8	1/2	1/2	3	5 1/4	5	5 3/8	6 1/8	12 1/2	13	M16	1 3/8	3.189	
18 x 32 x 20	18 1/8	32 1/8	24	38	1 1/8	12	24	20 1/8	23 3/8	21 3/8	2	11 1/8	18	1 1/8	1/2	1/2	3	7	6	6	4 1/8	16 3/8	5 1/2	M16	1 3/8	5.469	

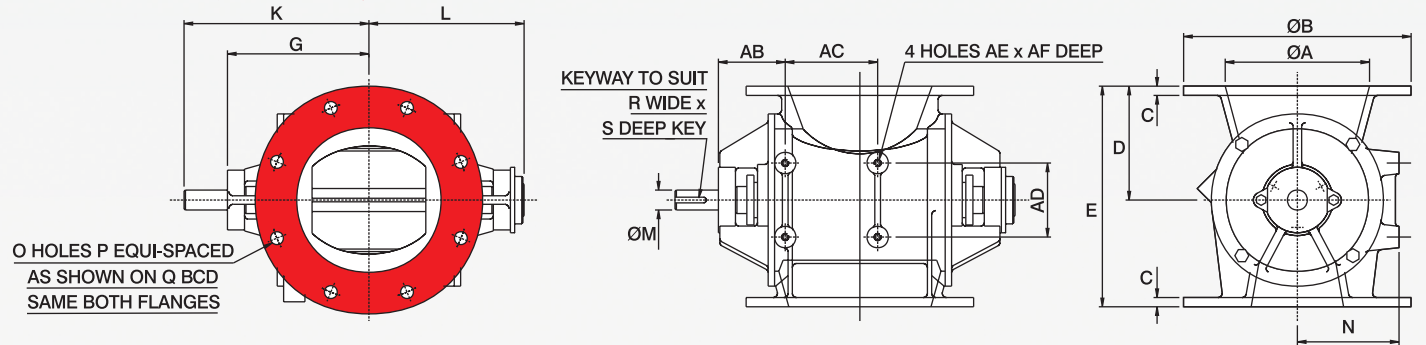


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Planning-in detail for general guidance only
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Drillings are Rotolok standards. Variations can be made.



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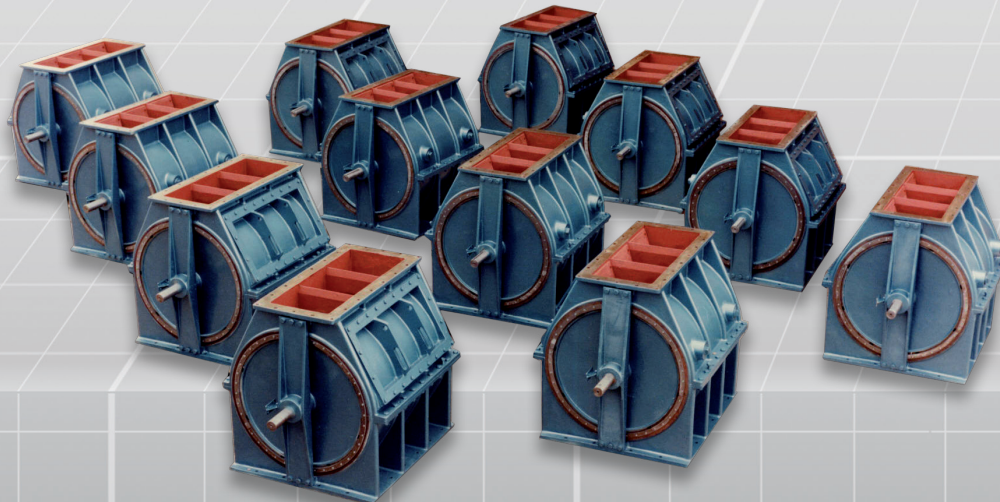
CIRCULAR INLET - ORVC



NOMINAL INLET Ø x BORE	øA	øB	C	D	E	G	K	L	øM	N	O	P	Q	R	S	AB	AC	AD	AE	AF	ft ³ /rev
1/2 x 3/4	1/2	3 1/2	1/4	2 1/16	4 1/16	1 3/4	2 1/2	2 3/16	3/8	-	4	3/8	2 3/16	1/4	1/4	-	-	-	-	-	87 x 10 ⁻⁶
HAR 6 x 7 ASA	5 1/8	11 1/4	1/2	5 1/8	10 1/4	7 13/16	10 1/8	8 1/8	1 1/8	4 1/8	8	1/2	9 1/8	1/4	1/4	4 13/16	5 3/4	3 13/16	M10	1 1/8	0.11
6 x 8	6	10	3/16	4 7/8	9 3/4	6 7/8	9 3/4	7 7/8	1 1/8	5	6	1/2	8 3/4	1/4	1/4	3 11/16	5 1/8	4 1/8	M10	3/4	0.167
7 x 8	6 1/8	12 1/8	1/2	6 1/8	12 1/2	8 11/16	10 1/8	9 1/8	1 1/8	5 1/8	8	1/2	10 1/8	1/4	1/4	4 11/16	7 1/2	3 13/16	M10	1 1/8	0.218
8 x 10 ASA	7 1/8	13 3/8	1/2	7 1/8	14 1/4	8 1/8	10 1/8	9 1/4	1 1/8	6 1/8	8	1/2	11 3/4	1/4	1/4	3 11/16	4 3/4	4 13/16	M12	1 1/8	0.423
8 x 12	8 1/8	13 1/2	3/4	8 11/16	18 1/8	10 1/4	12 1/2	11	1 1/8	7 1/8	8	1/2	11 1/4	1/4	1/4	3 11/16	12 1/2	5 1/2	M16	1 1/8	0.75
HAR 10 x 12 ASA	9 13/16	15 3/8	3/8	8 7/8	16 13/16	11	13 3/8	11 1/4	1 1/8	7 1/2	12	3/4	13 3/4	1/4	1/4	5 1/8	11 1/8	4 13/16	M10	1 1/8	0.705
HAR 10 x 12 ASA	9 13/16	16	3/8	8 7/8	16 13/16	11	13 3/8	11 1/4	1 1/8	7 1/2	12	1	14 1/4	1/4	1/4	5 1/8	5 3/8	4 13/16	M10	1 1/8	0.705
HAR 10 x 15 PN	11 13/16	17 1/2	3/4	10 3/4	20 1/2	13	16 3/8	13 3/4	1 1/8	8 1/8	12	1/2	15 3/4	1/4	1/4	5 3/8	14 3/8	4 13/16	M12	7/8	1.33
HAR 14 x 18 PN	13 3/4	19 1/2	1 1/16	12	24	14 3/8	16 3/8	15 1/2	2	10 1/8	16	1/2	18 1/2	1/2	1/2	6 1/8	16 1/8	4 13/16	M12	7/8	2.216

CAPACITIES

The capacities of the Oddball valves are in the last column of the valve size charts, in ft³ per rotor revolution. See standard Rotary Valve capacity chart for comparisons at various valve speeds.



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