

Outboard Bearing Rotary Valve (OBRV)

- Rugged construction
- High efficiency
- Outboard bearing design offers maximum bearing support
- Minimum leakage blow-back
- Variety of rotor configurations



Equipment

The Outboard Bearing Rotary Valve (OBRV) is a high efficiency airlock with minimum leakage blow-back. Its outboard bearings provide the airlock with maximum bearing support.

The OBRV is designed with shaft braided packing seals that are most frequently used where product contact could damage the seals and cause bearing failure.

Features

- Rugged construction
- High efficiency
- Outboard bearing design offers maximum support

- Minimum leakage blow-back
- Variety of rotor configurations
- Packing glands inside the housing endplates to seal the cavity from the bearings
- Bearings are fitted around the shaft ends in a separate cavity away from the valve body endplates with locking collar to hold the shaft in proper end-to-end alignment

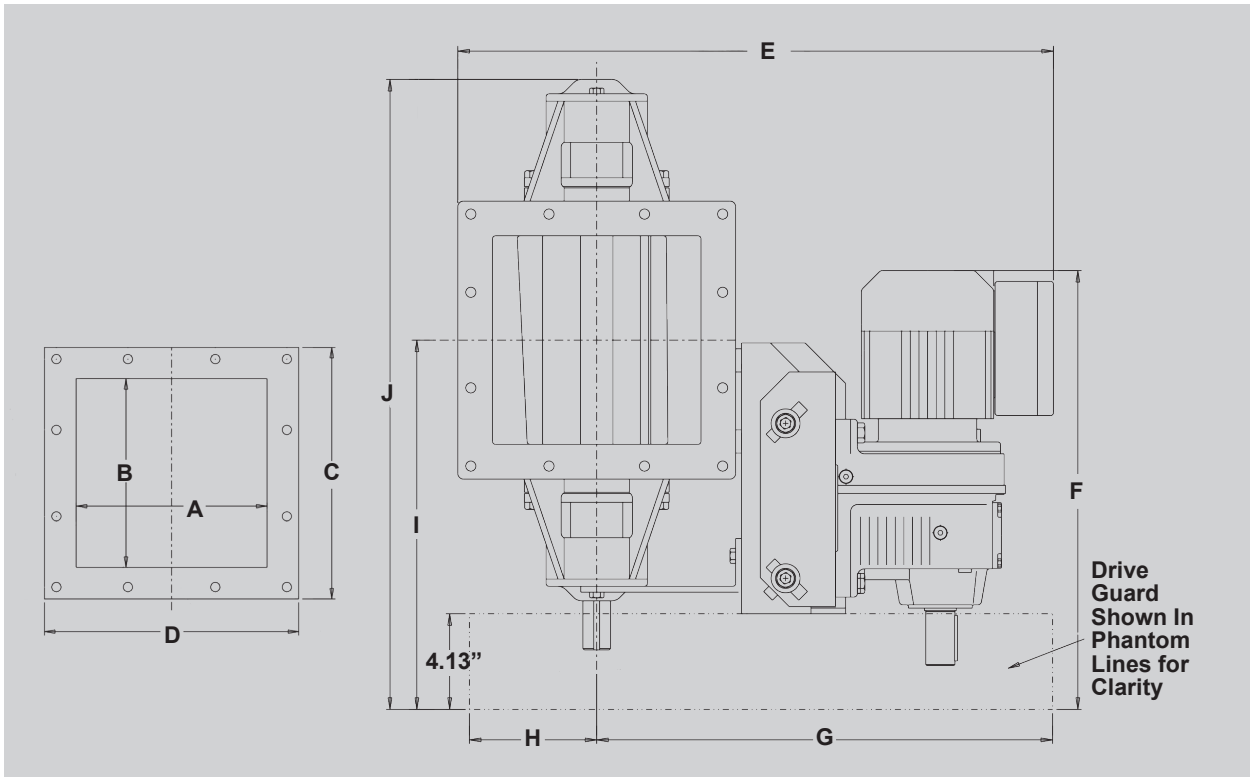
Options

- Motion indicator
- Variable speed drives
- Seal purge
- Endplate purge (closed end rotors only)
- Hard chrome plated

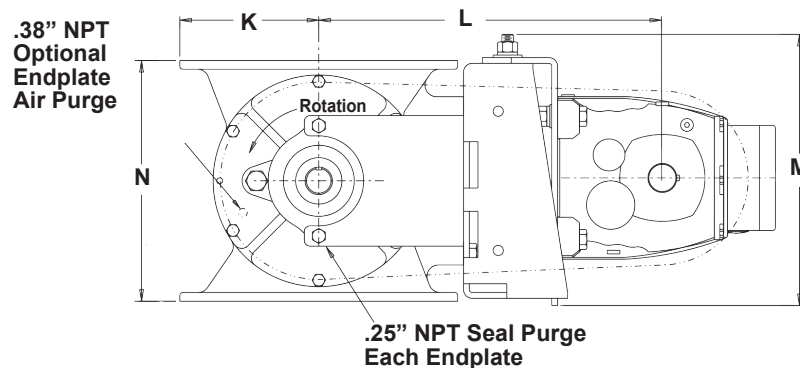
Construction (material designation – housing / end plates / rotor)				
	CI/CI/CS	CI/CI/SS	SS/SS/SS	AL/AL/SS
Housing	Gray Iron Class 30 Outboard bearing design	Gray Iron Class 30 Outboard bearing design	Cast Alloy CF-8 (304 SS) Outboard bearing design	Aluminum Alloy 356-T6 Hard anodized Rectangular inlet/outlet flanges
End Plates	Gray Iron Class 30 Outboard bearing design	Gray Iron Class 30 Outboard bearing design	Cast Alloy CF-8 (304 SS) Outboard bearing design	Aluminum Alloy 356-T6 Hard anodized Outboard bearing design
Maximum Pressure Rating	15 PSI		15 PSI	15 PSI
Standard Rotor	Carbon Steel c1018 CRS 8 vanes* open adjustable beveled tip rotor	304 Stainless Steel 8 vanes* open adjustable beveled tip rotor	304 Stainless Steel 8 vanes* open adjustable beveled tip rotor	304 Stainless Steel 8 vanes* open adjustable beveled tip rotor

(*OBRV-02 has 6 vanes) CI = Cast Iron CS = Carbon Steel SS = Stainless Steel AL = Aluminum

Dimensions



Model	Dimensions (inches)														Motor (HP)	Weight (lbs.)				# of Rotor Vanes
	A	B	C	D	E	F	G	H	I	J	K	L	M	N		Grey Iron	Aluminum	304 S.S.	CFR	
OBRV-02	9	9	12	12	25.69	18.94	19.69	5.5	15.94	27.19	6	14.81	11.69	10.38	0.5	240	190	240	0.2	6
OBRV-04	10	11	14.75	13.75	26.44	20.38	19.69	5.5	17.19	29.81	6.88	14.69	11.69	13.25	.75 or 1	365	265	365	0.4	8
OBRV-08	12	12	16.5	16.5	30.5	22.88	20.44	6.69	17.94	31.31	8.25	15.94	11.69	15.25	1 or 1.5	515	345	515	0.8	8
OBRV-12	14	15.25	19.75	18.5	32.88	22.88	22.5	7.44	19.5	34.81	9.25	17.31	16.06	17.75	1 or 1.5	675	430	675	1.2	8



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