

Inboard Bearing Rotary Valve (RV)

- Rugged construction
- High efficiency
- Minimum leakage blow-back
- Inboard bearings
- Maximum shaft support with a minimum of rotor deflection



Equipment

The Inboard Bearing Rotary Valve (RV) is a high efficiency airlock with minimum leakage blow-back. Its inboard bearings provide the airlock with maximum shaft support and minimize rotor deflection.

The RV features double opposed lip seals that protect the inboard bearings from product infiltration. It is designed for food applications in wash-down environments.

Features

- Rugged construction
- High efficiency
- Inboard bearings

- Minimum leakage blow-back
- Maximum shaft support with a minimum of rotor deflection
- Double opposed lip seals (between the rotor ends and bearings) isolate bearings and protect from infiltration
- Locking collar secures the bearing and shaft assembly in proper end-to-end alignment

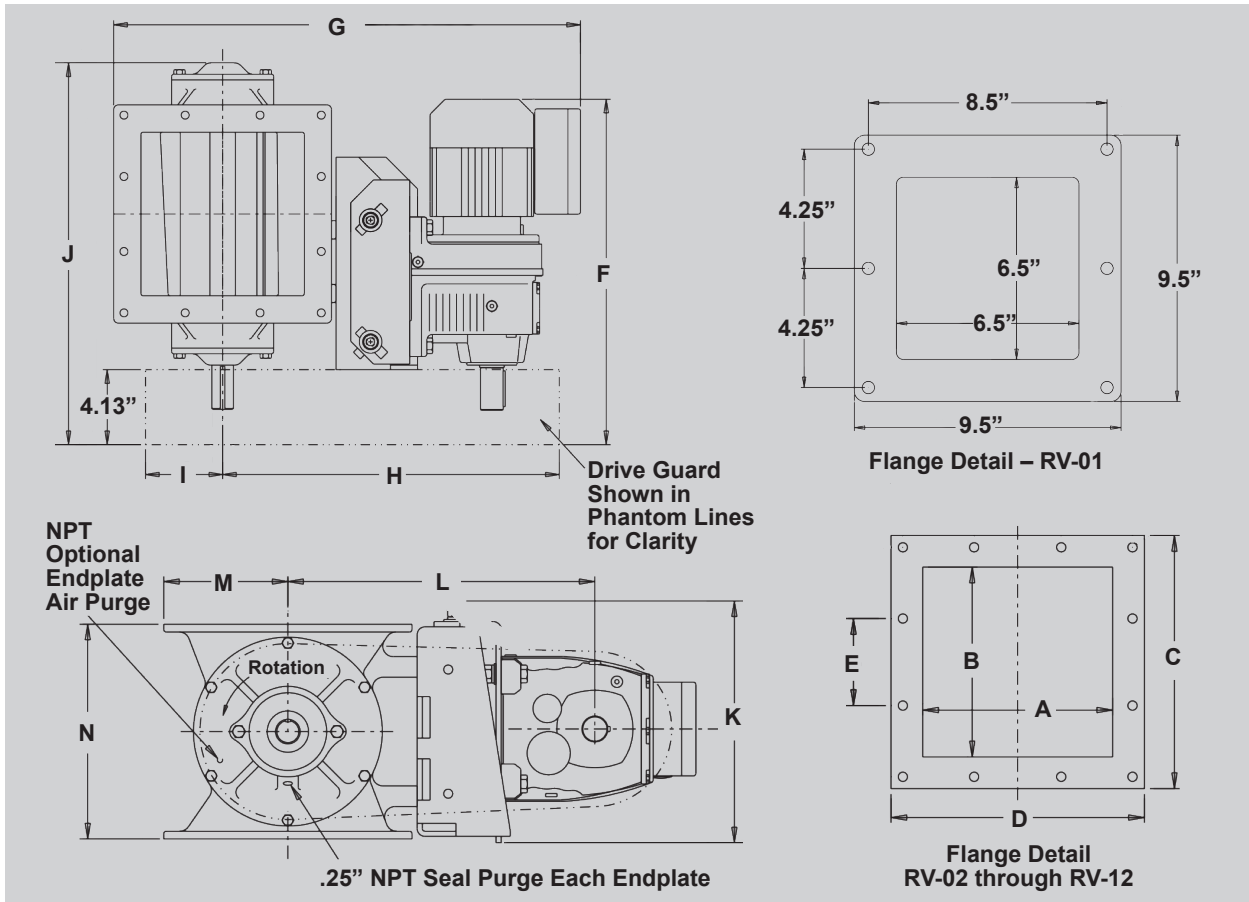
Options

- Motion indicator
- Variable speed drives
- Seal purge
- Endplate purge (closed end rotors only)
- Hard chrome bore and endplates with epoxy coated throats

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

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

Dimensions



Model	Dimensions (inches)														Motor (HP)	Weight (lbs.)			CFR	# of Rotor Vanes
	A	B	C	D	E	F	G	H	I	J	K	L	M	N		Gray Iron	Aluminum	304 S.S.		
RV-01	6.5	6.5	See DTL	See DTL	See DTL	17.5	21.38	14.69	4	16.63	8.25	11.31	4.75	8.25	0.33	205	160	205	0.1	6
RV-02	9	9	12	12	4.13	18.94	25.69	19.69	5.5	21	11.69	14.81	6	10.38	0.5	225	170	225	0.2	6
RV-04	10	11.25	14.75	13.75	4.5	20.44	26.44	19.69	5.5	23.5	11.69	14.69	6.88	13.25	.75 or 1	350	250	350	0.4	8
RV-08	12	12	16.5	16.5	5	23.25	30.5	20.44	6.69	25.06	11.69	15.94	8.25	15.25	1 or 1.5	500	330	500	0.8	8
RV-012	14	15.25	19.75	18.5	5.75	23.25	32.88	22.5	7.44	29	16.06	17.31	9.25	17.75	1 or 1.5	655	410	655	1.2	8

7901 NW 107th Terrace
 Kansas City, MO 64153
 816-891-9300
info.fpm@coperion.com
www.coperion.com/fpm