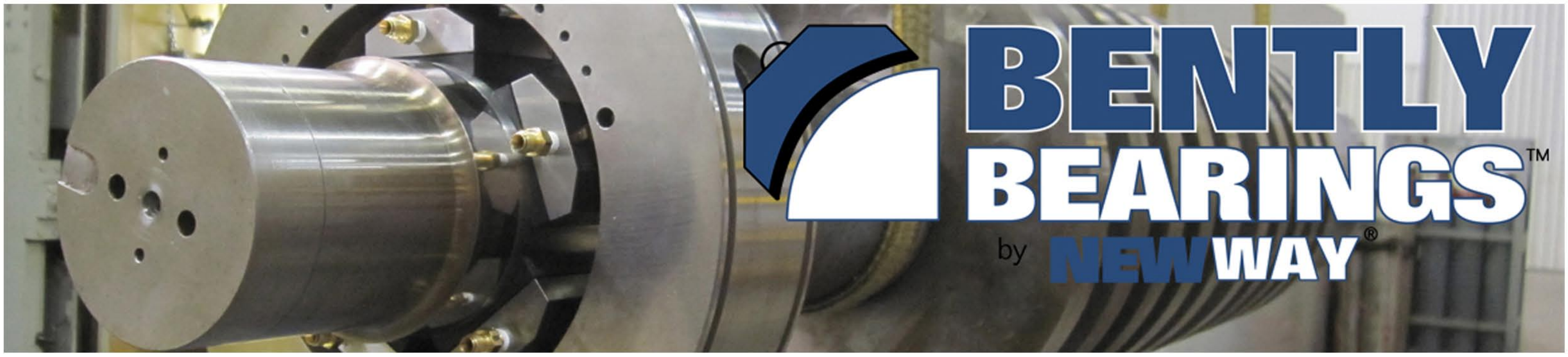
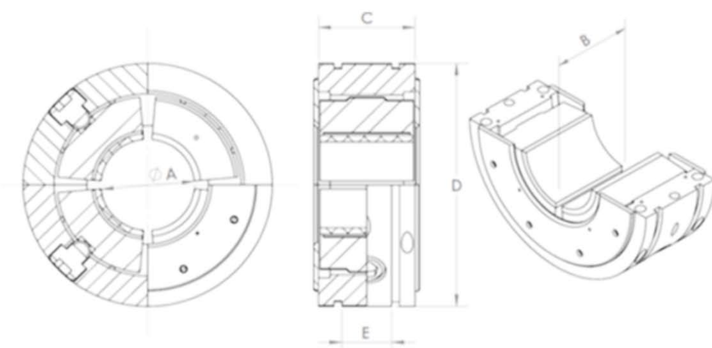
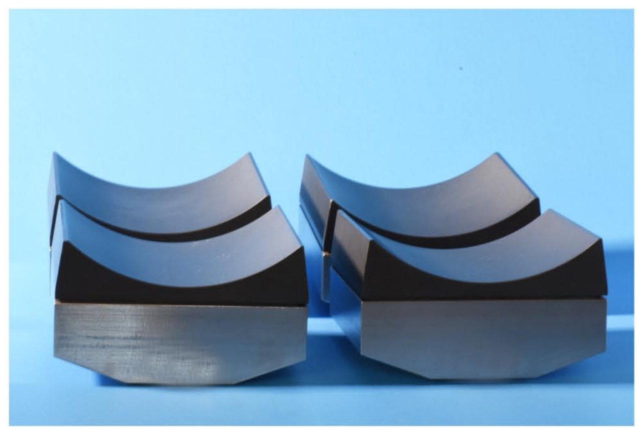


Porous media AIR BEARING Solutions

Externally-Pressurized Gas Bearing Technology Benefits

- No wear (Frictionless)
- No dry running at start-up
- Great for retrofit applications
- Longer life
- Higher speeds without heat
- Adjustable damping (controlling gaps)
- Low air flow
- Anticipate extreme high temperature capability
- Familiar mounting geometries
- Lower maitenance than oil bearings
- Can serve as bearing AND seal
- Run on process gas in the bearing gap
- Less peripheral equipment
- Less complexity than magnetic bearings
- Does not require back-up bearings
- Air bearings continue to run hydrodynamically without failure if air supply stopped





Representative dimensional data shown below - Subject to change based on various deign factors - custom sizes available

Bearing Dia "A" (mm)	Pad Width "B" (mm)	Cartridge OD "D" (mm)	Load Capab @4 bar input	Load Capab @8 bar input	Load Capab @ 80 bar input
25	25	65	188N'(42'lbf)	377N'(85'lbf)	3.77kN'(848'lbf)
40	40	105	483N'108'lbf)	965N'(217'lbf)	9.7kN'(2.17'klbf)
50	50	135	754N'(170'lbf)	1.51kN'(339'lbf)	15.1kN'(3.39'klbf)
75	75	200	1.6kN'(381'lbf)	3.4kN'(763'lbf)	33.9kN'(7.63'klbf)
100	100	265	3kN'(678'lbf)	6kN'(1.36'klbf)	60.3kN'(13.56'klbf)
125	125	335	4.7kN'(1.36'klbf)	9.4kN'(2.12'klbf)	94.3kN'(21.19'klbf)
150	150	380	6.8kN'(2.12'klbf)	13.6kN'(3.05'klbf)	135.7kN'(30.51'klbf)
200	200	450	12.1kN'(3.05'klbf)	24.1kN'(5.42'klbf)	241.3kN'(64.24'klbf)
300	300	600	27.1kN'(5.42'klbf)	54.3kN'(12.20'klbf)	542.9kN'(122'klbf)
400	400	800	48.3kN'(10.85'klbf)	96.5kN'(21.70'klbf)	965.1kN'(217'klbf)
500	500	1000	75.4kN'(16.96'klbf)	150.8kN'(33.9'klbf)	1.508kN'(339'klbf)

Performance Characteristics of Bearing Types

Bearing Type	Oil Journal	Active Magnetic	Bump Foil	Flext/Pivot Hybrid Oil	Pressurized Gas
Friction at Start	1	3	1	2	3
Heat Generation	1	3	2	1	3
Process Compatitbility	1	2	3	1	3
Shear/Loss and Speed	1	3	2	1	3
Load Capacity	3	2	1	3	3
Damping	2	3	1	3	3
Cost	3	1	3	2	2
Service Cost	1	2	3	1	2
Total	13	19	16	14	22

Rating Key: 3 = Best 2 = Average 1 = Worst

Above table taken from Turbomachinery International Nov/Dec 2014 Article "Gets Your Bearings Straght"

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