Rebuildable Steel Breathers

Rebuildable rugged steel housing for extreme environments, bulk storage tanks, and large circulating lube oil systems.

CUSTOMIZATION OF MATERIALS:

Steel Housings:
Carbon Steel*
304 Stainless Steel
316 Stainless Steel

Gasket/Seal Material:
Buna-N*
Viton*
EPDM
SBR Rubber

Media:
Silica Gel*
Activated Carbon
Molecular Sieve
Activated Alumina

Filter Material:
Microglass*
Polyurethane Filter
Plastisol Filter

*Standard Component

CHEMICAL COMPATIBILITY:

Compatible with all mineral oils, most synthetic oils and diesel fuels (Contact Des-Case technical support for chemical compatibility inquiries)

[1]PERFORMANCE SPECIFICATIONS:

DC Product Code	RS-3	RS-5	RS-9	RS-15	RS-25	RS-50	RS-75	RS-100	RS-150	RS-200
Temperature Range	-20˚F to 220˚F (-29˚C to 104˚C)									
Filter Efficiency	1 µm absolute									
[2]Amount of Desiccant	3 lbs (1.4 kg)	5 lbs (2.3 kg)	9 lbs (4.1 kg)	15 lbs (6.8 kg)	25 lbs (11 kg)	50 lbs (23 kg)	75 lbs (34 kg)	100 lbs (45 kg)	150 lbs (68 kg)	200 lbs (91 kg)
Water Adsorption Capacity	.14 gal (.5 L)	.24 gal (.9 L)	.43 gal (1.6 L)	.71 gal (2.7 L)	1.2 gal (4.5 L)	2.4 gal (9 L)	3.6 gal (13.5 L)	4.8 gal (18 L)	7.1 gal (27 L)	9.5 gal (36 L)
[3]Application Sizing Recommendations										
Max. Airflow	85 cfm (2407 l/min)	85 cfm (2407 l/min)	80 cfm (2265 l/min)	205 cfm (5805 l/min)	140 cfm (3964 l/min)	115 cfm (3256 l/min)	80 cfm (2265 l/min)	270 cfm (7645 l/min)	250 cfm (7079 l/min)	240 cfm (6796 l/min)

[1]**NOTE:** Small variations in the manufacturing process can be common and will be within the allowable engineering tolerances. All above data is nominal and provided for information only and subject to change. All metric conversions are approximate.

[2]**NOTE:** Desiccant weight may vary up to 0.5 lbs for easy handling.
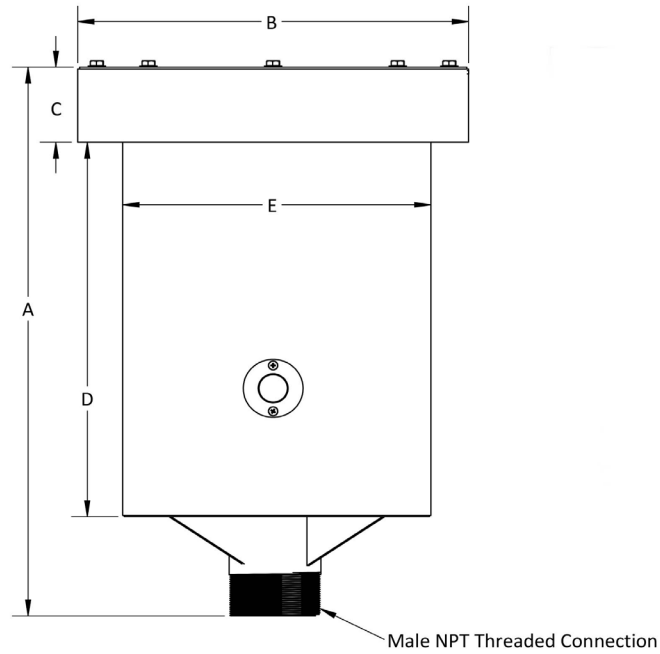
[3]**NOTE:** This is intended as a general guideline for sizing only; other considerations, such as: humidity level, frequency of air flow, ambient temperatures, and chemical compatibility are very important in sizing a breather properly. Larger applications and special circumstances typically require the most thorough analysis. Please contact Des-Case for assistance in sizing a breather.

Typical Applications:

- Bulk storage
- Chemical/harsh environments
- Hydraulic reservoir
- Diesel tank storage

Typical Industries:

- Power Generation
- Pulp & Paper
- Steel

Male NPT Threaded Connection

DIMENSIONS:

Product Code	A (in / mm)	B (in / mm)	Thread Diameter	C (in / mm)	D (in / mm)	E (in / mm)
DC-RS-3	11.5 / 292	10.1 / 257	2" NPT	2.1 / 53	6.8 / 172	7.3 / 184
DC-RS-5	13.8 / 349	10.1 / 257	2" NPT	2.1 / 53	9.3 / 235	7.3 / 184
DC-RS-9	18.3 / 464	10.1 / 257	2" NPT	2.1 / 53	13.5 / 343	7.3 / 184
DC-RS-15	19.3 / 489	15.5 / 394	3" NPT	3.1 / 78	12 / 305	12.3 / 311
DC-RS-25	22.5 / 572	15.5 / 394	3" NPT	3.1 / 78	15.4 / 391	12.3 / 311
DC-RS-50	31.3 / 794	15.5 / 394	3" NPT	3.1 / 78	24 / 610	12.3 / 311
DC-RS-75	39.8 / 1010	15.5 / 394	3" NPT	3.1 / 78	32.5 / 826	12.3 / 311
DC-RS-100	31 / 787	23.5 / 597	4" NPT	5.1 / 129	20.8 / 527	20.3 / 514
DC-RS-150	36.8 / 933	23.5 / 597	4" NPT	5.1 / 129	26.6 / 676	20.3 / 514
DC-RS-200	42.8 / 1086	23.5 / 597	4" NPT	5.1 / 129	32.6 / 829	20.3 / 514

Rebuild Kit Components	
Replacement Filter Element	Pleated filter element captures airborne contamination to 1-micron absolute.
Desiccant Bag Filter	[4]Polypropylene bag has handles for easy removal and replacement.
Sight Glass Indicator	Silica gel changes color from blue to pink when the unit requires rebuilding.

[5]Rebuild Parts & Accessories	
Model #	Description
DC-RS-X-RK	Rebuildable Steel Breather Kits
DC-RS-X-F1	Rebuildable Steel Breather Microglass Filter Elements
DC-RS-X-D1	Rebuildable Steel Breather Desiccant Bag Sets
DC-RS-X-SG1	Rebuildable Steel Breather Sight Glass Cartridges
DC-RS-X-P1	Rebuildable Steel Breather Foam Pad Inserts
DC-RS-X-G1	Rebuildable Steel Breather Gasket Seals

[4]**NOTE**:Desiccant bags for units above and RS-25 are packaged in 25lb increments for easy handling.

[5]**NOTE:** For part codes containing X, substitute the appropriate RS model number. (Example: the part code for a sight glass cartridge for the DC-RS-150 would be DC-RS-150-SG1.)

Des-Case recommends use of a pressure/relief valve on any tank or storage system.

+1.615.672.8800 • +31 (0) 182.24.48.88

TSI000_EN_081924