

BEACH BREATHER SIZING CHART

Please Note: This sizing guide 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 desiccant breather properly. Larger applications and special circumstances typically require the most thorough analysis.

| Standards | Product Line | Beach Part # | Max Air Flow in CFM | PSID | GPM | LPM | Storage Tank avg Gallons | Hyd. avg Gallons | GB avg Gallons | Pounds of desiccant | Port Size | Ideal For | Comments |
|--|------------------------|--------------|------------------------|-----------|--------|--------|--------------------------|---------------------|-------------------|---------------------|-----------|--|---|
| Standards | Standards | BB-BB | | | 34.125 | 128.84 | 15 | 2 | 15 | 0.130 | | | Polycarbonate body, nylon standpipe, 3um filter element |
| Secretaries | Standards | BB-1 | 4.16 | At 1 PSID | 31.2 | 117.8 | 35 | 5 | 35 | 0.28 | | | Polycarbonate body, nylon standpipe, 3um filter element |
| Second color | Standards | BB-2 | 16 | At 1 PSID | 120 | 453 | 200 | 60 | 200 | 0.66 | | | Polycarbonate body, nylon standpipe, 3um filter element |
| Secondaria Sec | Standards | BB-3 | 16 | At 1 PSID | 120 | 453 | 350 | 100 | 350 | 1.220 | | | Polycarbonate body, nylon standpipe, 3um filter element |
| Extended Series 88-EX 27 At 1 PSID 20.5 765 400 100 400 1.2 1° FNFT hydraulics, wind turbries, low profiles associations (marked size). Large guarbours, such unique large guarbours, such uni | Standards | BB-4 | 16 | At 1 PSID | 120 | 453 | 500 | 200 | 500 | 1.88 | | | Polycarbonate body, nylon standpipe, 3um filter element |
| Extended Series | Extended Series | BB-EX-1 | 27 | At 1 PSID | 202.5 | 765 | 400 | 100 | 400 | 1.2 | 1" FNPT | hydraulics, wind turbines, low profile | Six check valves, polycarbonate body, nylon standpipe with integrated honeycomb oil-mist reducer, 3um filter element |
| Extended Series BB-K-4 24 | Extended Series | BB-EX-2 | 26 | At 1 PSID | 195 | 736 | 600 | 200 | 600 | 2.2 | 1" FNPT | | Six check valves, polycarbonate body, nylon standpipe with integrated honeycomb oil-mist reducer, 3um filter element |
| Aquaguard Ba-AG-B 1.45 At 1 PSID 10.675 41.06 15 2 15 0.13 38* Mult-FR (NPT, BSPP, BSP) (Ceathbooks, Cure frow Applications, High element (Linear Stronger) | Extended Series | BB-EX-3 | 25 | At 1 PSID | 187.5 | 708 | 800 | 300 | 800 | 3.2 | 1" FNPT | | Six check valves, polycarbonate body, nylon standpipe with integrated honeycomb oil-mist reducer, 3um filter element |
| Aquaguard BB-AG-BB 1.45 At 1 PSID 10.875 41.06 15 2 15 0.13 SePt PSID Gearbox Strong Gearbox Str | Extended Series | BB-EX-4 | 24 | At 1 PSID | 180 | 680 | 1,000 | 400 | 1,000 | 4.2 | 1" FNPT | hydraulics, wind turbines | Six check valves, polycarbonate body, nylon standpipe with integrated honeycomb oil-mist reducer, 3um filter element |
| Aguaguard B8-AG-1 1.45 | Aquaguard | BB-AG-BB | 1.45 | At 1 PSID | 10.875 | 41.06 | 15 | 2 | 15 | 0.13 | | Humidity, Frequent Washdowns, Gearbox Storage | Check valves, polycarbonate body, nylon standpipe, 3um filter element |
| Aquaguard BB-AG-2 2.5 | Aquaguard | BB-AG-1 | 1.45 | At 1 PSID | 10.875 | 41.06 | 35 | 5 | 35 | 0.28 | | Humidity, Frequent Washdowns, | Check valves, polycarbonate body, nylon standpipe, 3um filter element |
| Aquaguard BB-AG-3 2.28 | Aquaguard | BB-AG-2 | 2.5 | At 1 PSID | 18.75 | 70.5 | 200 | 60 | 200 | 0.66 | | Humidity, Frequent Washdowns, | Check valves, polycarbonate body, nylon standpipe, 3um filter element |
| Aquaguard BB-AG-4 1.8 At 1 PSID 13.5 50.9 500 200 500 1.88 North (New Yalves, polycarbonate body, nylor sample). Solid miles and the polycarbonate body, nylor sample). Steady-state perations Gearboxes, High-humidity, Applications, Frequent Washdowns Aquaguard BB-AG-1 1.41 At 1 PSID 10.575 39.93 n/a n/a 50 0.28 3/8" Multi-Fit (NPT, BSPT, BSPT) Steady-state perations Gearboxes, High-humidity, Applications, Frequent Washdowns Non-Desiccant Breather BB-ND-2 0.67 At 1 PSID 5.025 19 5 to 15 n/a 5 to 15 n/a 5 to 15 n/a 38" NPT Oil Sight Glasses, Small Gearboxes Extreme Duty Breather BB-ND-3 40 At 1 PSID 120 456 500 200 500 1.75 11/2" x 16 UN Female Pollutions in the Pollution of the Pollution in th | Aquaguard | BB-AG-3 | 2.28 | At 1 PSID | 17.1 | 64.5 | 350 | 100 | 350 | 1.22 | | Humidity, Frequent Washdowns, | Check valves, polycarbonate body, nylon standpipe, 3um filter element |
| Aquaguard BB-AG-1 1.41 At 1 PSID 10.575 39.93 n/a n/a 50 0.28 3/8* Multi-Fit (NPT, BSPP, BSPT) Steady-state operations Gearboxes, High-humidity Applications, Frequent Washdowns standpipe, 3um filter element washdowns, Arid, High-Dust Environments, Onlinuous Operations wirequent Washdowns, Arid, High-Dust Environments, Onlinuous Operations wirequent Washdowns, Arid, High-Dust Environments, Onlinuous Operations wirequent Washdowns, Arid, High-Dust Environments, Olimsting Applications on the standpipe, 3um filter element washdowns, Arid, High-Dust Environments, Olimsting Applications on the standpipe, 3um filter element washdowns, Arid, High-Dust Environments, Olimsting Applications wirequent Washdowns, Arid, High-Dust Environments, Olimsting Applications wire reds in the standpipe, 3um filter element washdowns, Arid, High-Dust Environments, Olimsting Applications wire reds and the standpipe, 3um filter element washdowns, Arid, High-Dust Environments, Olimsting Applications washdowns, Arid, High-Dust Environments, Olimsting Applications, PC/PBT body and sta | Aquaguard | BB-AG-4 | 1.8 | At 1 PSID | 13.5 | 50.9 | 500 | 200 | 500 | 1.88 | | Humidity, Frequent Washdowns, | Check valves, polycarbonate body, nylon standpipe, 3um filter element |
| Aquaguard BB-AG-8 2.5 | Aquaguard | BB-AG-1 | 1.41 | At 1 PSID | 10.575 | 39.93 | n/a | n/a | 50 | 0.28 | | Steady-state operations Gearboxes, High humidity Applications, Frequent | Expansion biadder, check valves, polycarbonate body, nylon |
| Non-Desiccant Breather BB-ND-35 40 At 1 PSID 300 1132 Consult Des-Case for tanks larger than 500 gallons Inva 1" NPT NPT Operations w Frequent Washdowns, Arid, High-Dust Environments, Oil Misting Applications of Misting Applications of Pemale connection will need DC-SB-VI. Extreme Duty Breather BB-ND6 16 At 1 PSID 120 456 500 200 500 1.75 1 1/2" x 16 UN Female Thread Harsh Environment, Mobile Equipment, Hydraulics PC/PBT body and standpipe, 0.3 micron plastison filter. Female connection will need XDVA or DSA adapter BB-RS-3 8B-RS-5 85 At 0.5 PSID 637.5 407 1300 600 205 400 120 456 500 200 500 1.75 1 1/2" x 16 UN Female Thread Harsh Environment, Mobile Equipment, Hydraulics PC/PBT body and standpipe, 0.3 micron plastison filter. Female connection will need XDVA or DSA adapter BB-RS-5 8B-RS-5 8B-RS-5 8B-RS-5 8B-RS-5 8B-RS-5 8B-RS-5 8B-RS-5 8B-RS-5 8B-RS-6 8B-RS-7 8B-RS-7 8B-RS-15 250 At 0.5 PSID 1600 2265 2400 1200 Please call 9 2" NPT Customized based on the customer's needs RS Breathers can be ordered in a variation of the below: Steel Housings Carbon Steel Garbet Housings Carbon Steel Gasket Material BB-RS-5 BB-RS-5 BB-RS-5 BB-RS-5 BB-RS-7 BB-RS-75 At 0.5 PSID BB-RS-75 | Aquaguard | BB-AG-8 | 2.5 | At 1 PSID | 18.75 | 70.5 | 55 | n/a | 400 | 0.650 | | humidity Applications, Frequent | expansion biadder, check valves, polycarbonate body, nylon |
| Non-Desiccant Breather BB-ND-35 40 At 1 PSID 300 1132 Consult Des-Case for tanks larger than 500 gallons Female connection will need DC-SB-VI. | Non-Desiccant Breather | BB-ND-2 | 0.67 | At 1 PSID | 5.025 | 19 | 5 to 15 | n/a | 5 to 15 | n/a | 3/8" NPT | Oil Sight Glasses, Small Gearboxes | |
| Rebuildable Steel Breather Rebuildable Steel R | Non-Desiccant Breather | BB-ND-35 | 40 | At 1 PSID | 300 | 1132 | Consult Des-C | | arger than 500 | n/a | 1" NPT | Operations w/ Frequent Washdowns, Arid, High-Dust Environments, Oil Misting | |
| Rebuildable Steel Breather BR-RS-75 80 At 0.5 PSID 600 2265 21000 please call | Extreme Duty Breather | BB-XD6 | 16 | At 1 PSID | 120 | 456 | 500 | 200 | 500 | 1.75 | | | |
| Rebuildable Steel Breather Rebuildable Steel Reb | | | | | | | | | please call | - | | | |
| Rebuildable Steel Breather Rebuildable Steel Bre | | | | | | | | | | | | | |
| Rebuildable Steel Breather Rebuildable Steel Breathe | | | | | | | | | | | | | Carbon Steel |
| Rebuildable Steel Breather Rebuildable Steel Breathe | | | | | | | | | | | | B. II. G | |
| Rebuildable Steel Breather BB-RS-75 80 At 0.5 PSID 600 2265 21000 please call please call 75 3" NPT Viton Rebuildable Steel Breather BB-RS-100 270 At 0.5 PSID 2025 7645 30000 please call 100 4" NPT Filter Material Rebuildable Steel Breather BB-RS-150 250 At 0.5 PSID 1875 7079 50000 please call please call 150 4" NPT Standard (microglass w/polyurethane) | | | | | | | | | | | | | |
| Rebuildable Steel Breather Rebuildable Steel Bre | | | | | | | | | | | | maish Environments, Chemical Storage | |
| Rebuildable Steel Breather BB-RS-150 250 At 0.5 PSID 1875 7079 50000 please call please call 150 4" NPT Standard (microglass w/polyurethane) | | | | | | | | · . | | | | | |
| Standard (micrograss w/polydretriane) | | | | | | | | | | l | | | |
| Trebuildadie died bleditief DD-110-200 240 At 0.01 div 1000 0750 17000 please tall 200 4 14FT Plastisol | | | | | | | | | | | | | |
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BREATHER SIZING INQUIRY QUESTIONS/NOTATIONS Below is information needed to properly size a breather. Please ask customers these questions before recommending a breather for their specific applications. Questions 1. What is the customer's current maximum flow rate (cfm/gpm/lpm) 2. How large is the customer's application (gallons of lubricant the equipment holds)? 3. What type of machinery is the customer outfitting (gearbox, hydraulic resevoir, storage, etc.)? 4. What type of environment does the customer have (high-humidity, dry, dusty, frequent wash-downs, oil mist, etc)? 5. What type of lubricant or chemical is the machine using? 6. What type of contamination control products is the customer currently using?

• 1 lb of desiccant absorbs approximately 0.73 cups of water at 38% weight by volume

[•] Efficiency of desiccant usage varies per breather type and is paramount to the breather life span

[•] If a breather has a low air flow rate and a small quantity of desiccant (referenced in "Sizing Chart" tab), use caution when recommending on systems over 35 gallons

[•] It's not uncommon for the first breather used to be spent quickly since it will initially eliminate current moisture build-up in the equipment. With consistent breather usage the customer should see increased breather life span depending on environmental conditions

Optimum cost efficiency is normally achieved with large units of each type (for example, a BB-4 would be more cost effective than a BB-2, even for smaller reservoirs)

All breathers can be made with the Secondary Agent of the customer's choice (Orange Silica Gel, Activated Carbon, Molecular Sieve, Activated Alumina, and various combinations of the agents