

Sabre Compressed Breathing Air Cylinders

Type Steel
Design Specification EC Specification
General Description A steel cylinder for use with breathing apparatus complete with cylinder valve.
 painted to EC specification, complete with cylinder valve fitted with safety locking handwheel

Type Carbon fibre fully wrapped aluminium composite cylinder
Design Specification HSE-AL-FW2
General Description A carbon fibre fully wrapped aluminium composite cylinder for use with breathing apparatus complete with cylinder valve
 The cylinder shell features an aluminium liner of grade IAA 6061-T6 is over wrapped with a three layer construction comprising an insulating layer of an S-2 glass and epoxy resin followed by the structural layer of carbon fibre within a epoxy resin.
 All cylinders have a minimum design life of 15 years in accordance with HSE-AL-FW2.
 The cylinder shell incorporates a neck thread if ISO M18 x 1.5 in accordance with EN 144
 The cylinder valve features a nickel plated brass body and is fitted with a ratchet locking handwheel mechanism to prevent inadvertent closing of the valve and a rubber buffer.

Dimensions and Weights:

The following table depicts the current range of Sabre cylinders :-

| CYLINDER ORDERING DETAILS | CYLINDER WATER CAPACITY | CHARGING PRESSURE (bar) | FREE AIR CAPACITY (litres) | TYPE OF CYLINDER | SPECIFICATION | CYLINDER DURATION (mins) * | CYLINDER DIAMETER (mm) | CYLINDER LENGTH (mm) | EMPTY CYLINDER WEIGHT | CHARGED CYLINDER WEIGHT | APPARATUS WEIGHT CENTURION | APPARATUS WEIGHT CONTOUR | APPARATUS WEIGHT SIGMA 2 |
|---------------------------|-------------------------|-------------------------|----------------------------|--------------------------------------|------------------|----------------------------|------------------------|----------------------|-----------------------|-------------------------|----------------------------|--------------------------|--------------------------|
| CYL-1200 | 6 | 207 | 1200 | Steel | EC Specification | 30 | 140 | 590 | 8.2kg | 9.6kg | 13.3kg | 11.8kg | 11.7 |
| CYL-FWC-1300 | 4.7 | 300 | 1300 | Carbon fibre fully wrapped aluminium | HSE-AL-FW2 | 32 | 135 | 565 | 3.6kg | 5.2kg | 9.7kg | 8.2kg | 8.1kg |
| CYL-1640 | 6 | 300 | 1640 | Steel | EC Specification | 41 | 140 | 610 | 8.0kg | 10.0kg | 14.5kg | 13.0kg | 12.9kg |
| CYL-FWC-1640 | 6 | 300 | 1640 | Carbon fibre fully wrapped aluminium | HSE-AL-FW2 | 41 | 156 | 550 | 4.3kg | 6.3kg | 10.8kg | 9.3kg | 9.2kg |
| CYL-1800 | 9 | 207 | 1800 | Steel | EC Specification | 45 | 175 | 560 | 10.8kg | 13.0kg | 17.5kg | 16.0kg | 15.9kg |
| CYL-FWC-1800 | 9 | 207 | 1800 | Carbon fibre fully wrapped aluminium | HSE-AL-FW2 | 45 | 175 | 630 | 4.5kg | 6.8kg | 11.3kg | 9.8kg | 9.7kg |
| CYL-FWC-1860 | 6.8 | 300 | 1860 | Carbon fibre fully wrapped aluminium | HSE-AL-FW2 | 46 | 156 | 650 | 4.5kg | 6.8kg | 11.3kg | 9.8kg | 9.7kg |
| CYL-FWC-2460 | 9 | 300 | 2460 | Carbon fibre fully wrapped aluminium | HSE-AL-FW2 | 62 | 178 | 635 | 5.8kg | 8.8kg | 13.3kg | 11.8kg | 11.7kg |

on a wearers consumption of 40 litres/minute
 Weights shown may have a variance of 0.3kg