

TECHNICAL DATASHEET

DM5000ES Mobile Ext 50 kg Monnex Chubb

Features

The Chubb 50kg Monnex Mobile extinguisher features:

- High performance Monnex BE powder
- In combustion zone, Monnex powder explodes breaking into smaller particles which dramatically increases the surface area of the powder, and the speed and effectiveness of the powder
- Stainless steel polyester powder coated cylinder
- Chrome plated brass ball valve
- Mild steel polyester powder coated trolley
- Steel hub wheels with roller bearings and gel-filled puncture free tyres
- Plated fittings

Suitable for use in:

- Offshore applications
- Petrochem
- Fuel depots
- Motor racing events
- Airports and heliports
- Alcohol and flammable liquid or chemical stores
- Suitable for fires involving flammable liquid such as heptane, petrol and diesel

Specifications

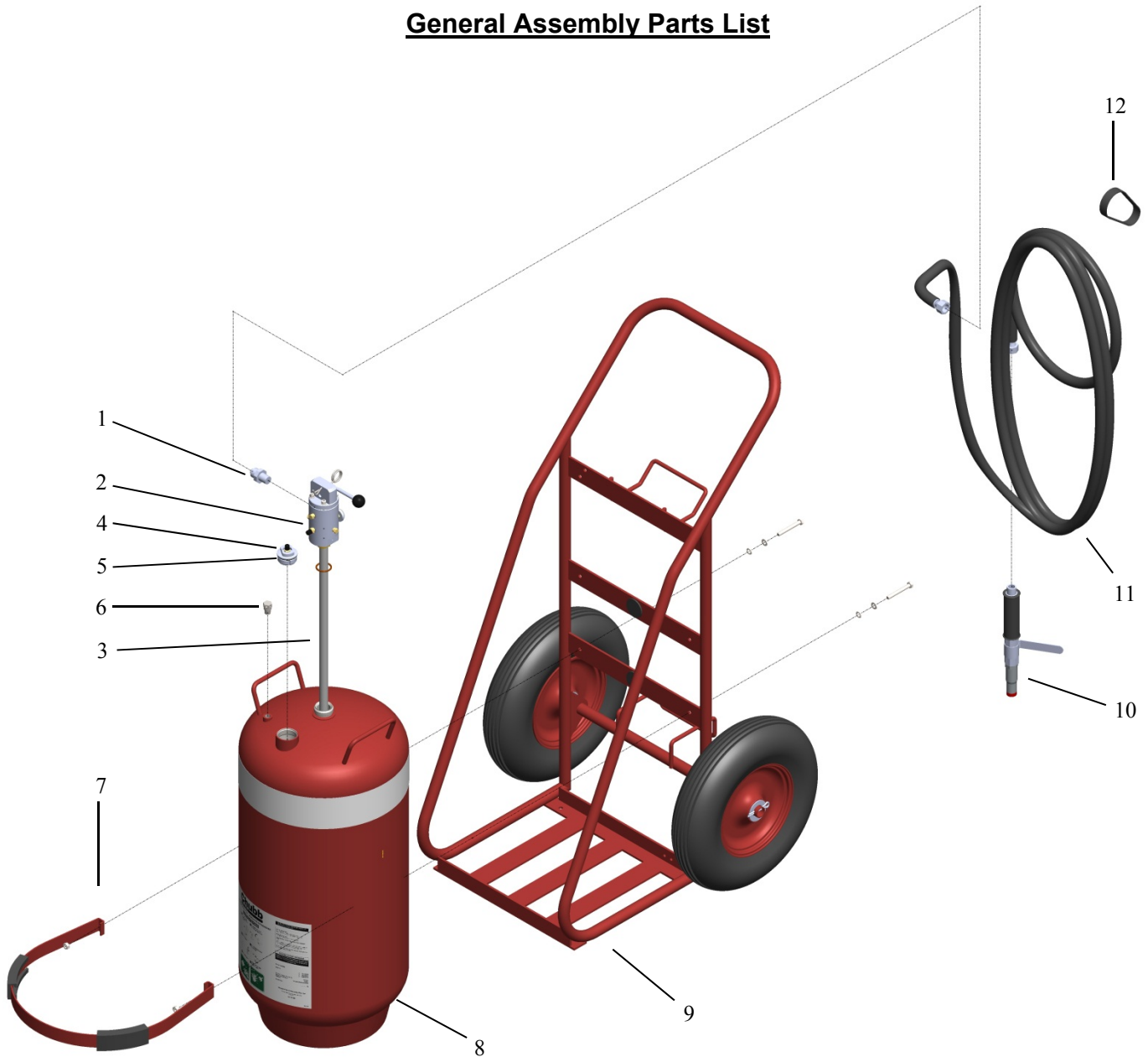
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|-----------------------------|--|
| Model Number: | DM5000ES |
| Type: | DCP Mobile – Stored Pressure |
| Capacity: | 50kg (Tol: ±2%) |
| Contents: | Monnex Powder |
| Rating: | A 7.5KG portable extinguisher has achieved a 80B:E rating with the same extinguishant. |
| Test Pressure: | 3.6 MPa |
| Operating Pressure: | 1350 kPa |
| Nominal Mass: | 98.4kg |
| Discharge Time: | 53 seconds |
| Discharge Range: | 6m approx. |
| Hose Length: | 6m |
| Nozzle Orifice: | 12.7mm |
| Service Temperature: | -10°C to +65°C |
| Overall dimensions: | 700W x 670D x 1200H mm |

NOTE:

Nominal mass and discharge times listed are approximate. Slight variations may occur.



General Assembly Parts List



| | | |
|-----|------------------------------|--------|
| 1. | Nipple Reducing | 40257 |
| 2. | Valve | 110271 |
| 3. | Diptube | 36061 |
| 4. | Filler Plug | 23100 |
| 5. | O-ring | 90221 |
| 6. | Burst Disc | 112255 |
| 7. | Strap Assy | 71230 |
| | (Inc. bolts, washers & nuts) | |
| 8. | Cylinder 65L | 16094 |
| 9. | Trolley Assy (Inc. wheels) | 70062 |
| 10. | Discharge Gun | 42003 |
| 11. | Hose Assy | 44010 |
| 12. | Velcro Tie | 92433 |

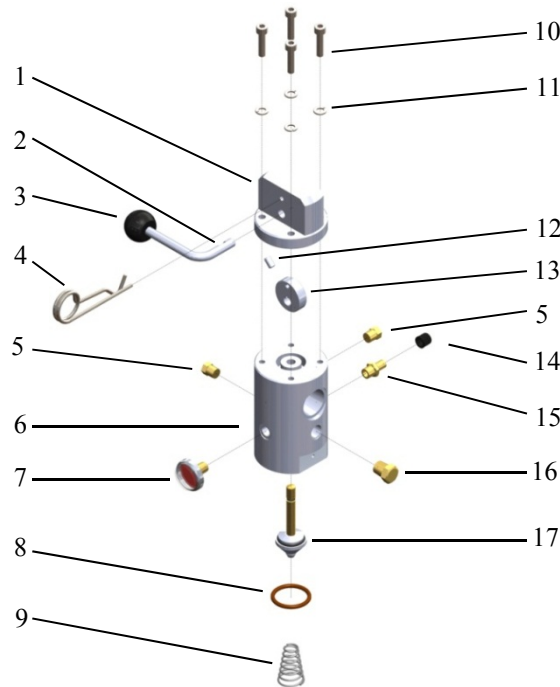
Powder: 50KG Monnex 100240 (25kg drum)

Note: Not all parts shown may be available stocked items

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12/06/2015

110271 Valve Part List

| | | |
|-----|--------------------|--------|
| 1. | Body - Manual | 110245 |
| 2. | Lever | 110251 |
| 3. | Knob | 107555 |
| 4. | Pull Pin | 104657 |
| 5. | Plug | 118551 |
| 6. | Main Body | 110243 |
| 7. | Gauge | 90441 |
| 8. | O-ring | 107656 |
| 9. | Spring | 110273 |
| 10. | Screws | 110266 |
| 11. | Washer | 94243 |
| 12. | Grub Screw | 110264 |
| 13. | Cam | 110249 |
| 14. | Schrader Valve Cap | 40503 |
| 15. | Schrader Valve | 94001 |
| 16. | Plug | 103604 |
| 17. | Stem Assy | 110263 |



Valve Service Kit 28035

Includes:

| | |
|--------------------------|-----|
| Schrader Valve 94001 | x 1 |
| Schrader Valve Cap 40503 | x 1 |
| Stem Assy 110263 | x 1 |
| Gauge 90441 | x 1 |
| O-ring 107656 | x 1 |

Service Requirements

Service in accordance with Australian Standard AS1851.

Additional AS1851 Service Requirements:

- Replace Dry Chemical Powder every five (5) years
- When installed in an aggressive environment it is recommended to carry out the 5 yearly service every three years
- Pressure test the hose assembly to 2MPa every 5 years or when cylinder is pressure tested.
- The recommended location for stamping the cylinder pressure test date is on the skirt of the cylinder consisting of figures not less than 3mm in height and shall, as a minimum, be of the form MM/YY, or MM/YYYY.

Recharge Instructions

CAUTION:- Ensure extinguisher is fully depressurised prior to removal of the operating head.

- 1) Ensure that the cylinder valve is closed and the discharge gun is open, remove the hose assembly from the cylinder.
- 2) Slowly unscrew filler plug two turns and allow all pressure to exhaust. When all pressure is expelled, remove plug and sealing o-ring.
- 3) Disconnect and remove extinguisher from trolley.
- 4) Slowly unscrew cylinder valve assembly including diptube, and remove from cylinder.
- 5) Dismantle cylinder valve assembly by removing hose and diptube assembly. Thoroughly clean all components, check on condition of seals and seats and replace if necessary. Clean inside valve body and diptube ensuring that the tube is not blocked.
- 6) Reassemble cylinder valve assembly. Use Loctite 577 on threads.
- 7) Empty all residue powder from cylinder and blow out with dry air or nitrogen.
- 8) Inspect cylinder as per AS1851 and AS2030.1 requirements. Check cylinder date stamp and pressure test cylinder if 5 years and older. Ensure cylinder interior is clean and free of corrosion and foreign objects. Check and clean the cylinder neck thread.
- 9) Clean cylinder valve entry thread, filler plug entry thread, and sealing face.
- 10) Refit valve and diptube assembly to cylinder using Loctite 577 on valve/diptube thread.
- 11) Refit extinguisher into trolley.
- 12) Fill the cylinder with correct powder as specified
- 13) Ensure filler plug o'ring is in good condition. Replace if required. Lubricate o-ring with Molykote M55 or 111 and assemble o-ring and filler plug to cylinder and spanner tighten.
- 14) Recharge the extinguisher through filler plug Schrader valve with dry nitrogen until the pressure manifold gauge indicates the correct pressure. Check that the extinguisher pressure indicator is in the operable range.
- 15) Refit safety pin and fit new anti-tamper seal. Take care not to open valve and accidentally discharge the contents.
- 16) Leak test all joints and seals disturbed during the service test with a leak detector or with the use of a leak detection solution such as "Snoop".
- 17) Inspect labels for condition and replace if necessary. Record new gross weight on label.
- 18) Check hose and discharge gun for damage and blockage. Blow out with dry air or nitrogen and thoroughly clean. Check cylinder date stamp and pressure test the hose assembly to 2MPa every five years in line with the cylinder pressure test requirements
- 19) Inspect trolley for cleanliness, damage and corrosion. Check that wheels are in good condition, inflated to correct pressure and rotate freely. Rectify if necessary.
- 20) Refit hose assembly to valve. Coil hose neatly on trolley and secure with Velcro tie. Ensure there are no kinks in the hose
- 21) Ensure all maintenance records and documentation is completed