

WHEELED FIRE EXTINGUISHERS POWDER EXTERNAL CARTRIDGE

INSTALLATION:

No particular skills are required

OPERATION:

In normal conditions the extinguisher is not pressurized, while during the usage there are 14 bar at 20°C with external cartridge nitrogen or Carbon dioxide (CO₂).

TORQUE FORCE:

The cap is screwed down on the cylinder with a torque force between 50 and 60 N*m
The valve 25E on the propellant cylinder is screwed with a torque force 196 N*m
The valve M25 on the propellant cylinder is screwed with a torque force 90 N*m
The hose is screwed on the valve with a torque force between 15 and 16N*m;
The safety valve is screwed on the valve with a torque force between 12 and 13N*m.

USE AND WARNING:

Use the extinguisher only in case of fire or for training.

- 1) Unroll the hose from the fire-extinguisher and keep in hand the powder gun.
- 2) Take out the safety pin and open the handwheel valve on the cartridge;
- 3) For fire extinguishers 50 and 100 kg rotate the ball valve on the powder gun, whereas for fire extinguisher 25 kg press the lever on the pistol, and aim the jet at the base of fire, distribute the extinguishing agent right and left uniformly on the fire.

- Keep the extinguisher away from areas where it will be subjected to extremes in temperature. The safe working temperature range for mobiles is -30°C to +60°C.
- Be aware that when operating the extinguisher the user will experience a jet reaction force. Do not operate on ladders, gantries or similar places where this could cause overbalancing.
- Familiarise relevant persons with the Material Safety Data Sheet (MSDS) for the extinguishing agent. MSDS available on the Angus Fire website.

In case of fire of flammable liquid do not approach too much. You need trained people to use properly. This fire extinguisher can be used for all type of fire classes A B C.

RECHARGE INSTRUCTION FOR FIRE EXTINGUISHER EXTERNAL CARTRIDGE (ONLY FOR TRAINED PERSONNEL)

Periodically according to the local laws, but at least every 12 months:
1) Weight the complete trolley fire extinguishers and verify that the same weight correspond to the initial weight not lower than 2%.
2) Unscrew the cap 4" or 2". Check the status of the cylinder, check the presence of any corrosion.

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FOR CO₂ EXTERNAL CARTRIDGE: Dismount the CO₂ cartridge and check the gross weight with a tolerance of 2% comparing to gross weight printed on top of cylinder.

FOR N₂ EXTERNAL CARTRIDGE: Dismount the N₂ cartridge and check the pressure with our special device code **98160** with a tolerance ±15bar on label stuck on the cylinder.

- Turn down the fire extinguisher horizontally, unscrew the discharge rubber hose and check that it's without obstructions and without any visible damages. Check the status of the wheels, oil the axes. Check the status of the safety valve and seals.
- Finally if all the above mentioned operations resulted positives, mount all the components. Dismounted previously and issue the effected maintenance report.

RECHARGE INSTRUCTIONS

1) Recharge of the extinguishing agent.
Unscrew carefully the brass cap 4" or 2" on the top of the cylinder and discharge completely the powder extinguisher, verifying that there isn't any residues.
Refill the cylinder with capacity under indicated of powder ABC30% original.
After that, tight brass cap 4" or 2" on the top of the cylinder.

INSTRUCTIONS FOR THE USER

PHASE	EVENT	DANGEROUS	SUGGESTIONS AND PRECAUTIONS	MESURES
TRANSPORT AND INSTALLATION	FALL	BUMP	Carry in container which protects the product from bumping over.	
OPERATION	OVER-PRESSURE / WHEATHER / CORROSION	BURSTING / REDUCING OF THE THICKNESS	Do not pressurize extinguishers over 14 bar at 20°C. STORED PRESSURE FIRE EXTINGUISHER In normal conditions the extinguisher is not pressurized, while during the usage there are 14 bar at 20°C. The recharge should be done only using calibrated pressure reducers. Avoid: -Do not bump which can damage the painting -Washing and contact with corrosive materials	To avoid over pressure in the extinguisher, a safety device is mounted on the valve. If this is provided, the opening pressure will be between 22-26 bar. If corrosion is pointed out please call the maintenance company for an immediate hydraulic test.
MAINTENANCE	IMPROPER DEPRESSURIZATION	VIOLENT CAST OF COMPONENT OR PART OF THEM	The maintenance must be done by qualified company (in extinguishers maintenance)	The maintenance of the extinguisher must be done according to the local regulation
DISPOSAL	IMPROPER DEPRESSURIZATION	BLOW OF PARTS RISK OF SERIOUS INJURIES	The disposal must be done by qualified company (in chemical products disposal)	For the disposal of the extinguisher call only authorized company who make it according to the local regulations In case of contact of the powder or foam, wash immediately with a large amount of water

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2) Recharge of the external cartridge.

FOR CO₂ EXTERNAL CARTRIDGE:

Remove the cylinder. Check empty and full weight. Refill the cartridge with capacity under indicated of CO₂:

Code	Fire ext. [kg]	Capacity [L]	Tolerance [%]	Weight [kg]	
				min	max
41199_1	25	3	0 / - 5	1,26	1,3
41199	50	3	0 / - 5	1,9	2,0
41236	100	5.4	0 / - 5	3,8	4,0

FOR N₂ EXTERNAL CARTRIDGE:

Remove the cylinder. Check on the cylinder if there is pressure. Refill the cartridge with capacity under indicated of N₂:

Code	Fire ext. [kg]	Capacity [L]	Tolerance [%]	Pressure at 20°C [bar]	
				min	max
41213_1	25	2	0 / - 5	133	140
41198	50	3	0 / - 5	133	140
41214	100	7.5	0 / - 5	85.5	90

FILLING TOLLERANCE

Capacity [kg]	Tolerance [%]	Weight [kg]	
		min	max
25	± 2	24,5	25,5
30	± 2	29,4	30,6
50	± 2	49,0	51,0
75	± 2	73,5	76,5
100	± 2	99,0	101,0
150	± 2	147,0	153,0

Verify that there isn't any leakage, finally seal the valve and mount it on the cylinder.
Do not overcharge.

Note: The refilling high pressure, must be effected by authorized refilling station .

DISPOSAL:

The disposal of the extinguisher should follow the local regulation.
The disposal of the extinguishing agent must be done according to the local regulations;
a company who make the disposal of chemical products should do it.

PERIODIC INSPECTIONS, SERVICING AND TESTS:

The extinguisher must be tested and serviced according to the local regulations.
The cylinder test has to be done every 12 years or earlier in case of corrosion or defects seen during regular maintenance.

Check the pressure
for N₂ external
cartridge
Code **98160**



FOR SPARE PART LIST SEE THE RELEVANT TECHNICAL BULLETIN