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		DO	CUMEN	T TITLE			
	S	9. STORED PR PORTABLE		DRY POW			
		MODEL	:	R9.0ABE			
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COVER PAGE/REVISION STATUS

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1. PURPOSE

This dry powder type fire extinguisher has been designed for easy operation by one person.

Clear instructions are fixed to the extinguisher to enable even an untrained person to quickly bring the extinguisher into operation.

It has been developed for use on the following types of fires.

CLASS 'A' -	Fires	Fires	invo	olving	wood,	paper,	textile	es ai	nd p	lasti	CS.

CLASS 'B' - Fires Fires involving flammable and combustible liquids, petrol, oil and grease etc.

CLASS 'E' - Fires Fires involving energised electrical equipment.

Note: It is not suitable for fires involving combustible metals such as magnesium, zirconium etc. or for fires involving cooking oils and fats.

GENERAL DESCRIPTION AND OPERATION

The extinguishing medium used in this fire extinguisher is a monoammonium phosphate based powder.

This extinguisher is of the stored pressure type. The dry powder is stored in a cylinder, pressurised with dry nitrogen and a small amount of helium to 1500 kPa. Discharge is by operation of the squeeze grip lever.

When the squeeze grip lever is depressed, the dry powder flows up through the siphon tube and valve and out through the hose nozzle for direction onto the fire. The squeeze grip operation permits 'on and off' control, enabling the operator to conserve powder and move from point to point when fighting a fire.

OPERATION IS SIMPLE

Instructions:

- 1. Hold upright. Pull out the safety pin.
- 2. Stand back 2 metres. Aim nozzle at base of fire.
- 3. Squeeze handles. Sweep under the flames.

2.

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The valve will re-seal when pressure is removed from the operating lever, thus providing for intermittent discharge when required.

These extinguishers must be used in an upright position to ensure full discharge of the contents.

Note: The extinguisher must be recharged immediately after any use.

3. SPECIFICATIONS

Extinguisher Capacity	9.0kg
Model Number	R9.0ABE
Gross Mass – Charged	13.6 kg
Diameter of body	182 mm
Height of overall	562 mm
Ratings to AS/NZS1850	6A:80B:E
Operating Pressure @ 23 C	1500 kPa
Periodic Test Pressure	2.25 MPa
Discharge time (approx)	20 to 23 secs
Packaging carton sizes: Height	590 mm
Width	200mm
Depth	195 mm

Each extinguisher is individually packed, complete with all mounting fittings in a rigid cardboard carton suitable for transport.

MATERIALS AND CONSTRUCTION

4.1 <u>CYLINDER</u>

The cylinder body components are manufactured from carbon steel. The cylinder body is of welded construction.

After fabrication all cylinders are hydrostatically pressure tested to 2500kPa for 30 seconds minimum. Cylinders are then dried and all external surfaces phosphated. The external surfaces are then finish polyester powder coated red approximating signal red.

4.2 VALVE ASSEMBLY

Consists of the valve body, carrying handle, operating lever, actuating valve stem assembly, spring, siphon tube assembly, pressure gauge and safety pin.

4.

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4.2.1. <u>Valve Body</u>								
	The valve body is machined from a brass forging and nickel plated.							
4.2.2.	Handle and Operating Lever The handle and operate lever are made from stainless steel and secured to the valve assembly with a stainless steel pin.							
4.2.3.	Valve Stem Assembly and Spring The valve stem assembly consists of a brass check stem and rubber 'O' ring and seat seals. The spring is stainless steel conical coiled and locates on the underside of the nut.							
4.2.4.	.4. <u>Siphon Tube Assembly</u> Consists of a siphon tube and siphon tube nut. The siphon tube material is made out of PVC tube, threaded one end for attaching the tube nut, which is made from nylon. The assembly screws into the bottom of the valve body by means of the threaded tube nut, which also captivates the valve spring.							
4.2.5.	<u>Pressure Gauge</u> The gauge has a stainless steel case and a brass stem, which screws directly into the valve body. It indicates the nitrogen gas pressure within the extinguisher. Its colour printed face shows the normal operating pressure of 1500kPa. The operable pressure range is shown by a green coloured sector.							
4.2.6.	Safety Pin The safety pin interlocks the operating le accidental discharge of the extinguisher be withdrawn from the operating lever be The pin is made from stainless steel. A pull tight anti-tamper seal straps throug handles.	when not in use. This pull of the extinguisher can be	out type pin must be operated.					
4.3	<u>Nozzle and Hose Assembly</u> The hose assembly consists of a textile plated iron inlet adaptor and an outlet no These fittings are secured to the hose by The hose assembly is secured to the val	zzle made from acetal cop / means of crimped iron fer	olymer. rules.					
4.4	LABEL The label indicates the extinguisher cont which it is approved. The label also featu operating instructions and states the stat extinguisher is produced. In addition to the extinguisher cylinder identifies the exting	ures (both written and picto ndard and licence number the main label a white band	rial) simple to which the					

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surface with two zinc		ook for attachment to a wall . The extinguisher hangs on the J.
EXTINGUISHANT		
powder containing sp	ecial agents to render its hting agent it produces r	0% monoammonium phosphate based free-flowing capabilities. It is green in no toxic effects.
powder containing sp colour and as a fire f	ecial agents to render its hting agent it produces r	free-flowing capabilities. It is green in
powder containing sp colour and as a fire f Trade name Presto S	ecial agents to render its hting agent it produces r uper ABE powder.	free-flowing capabilities. It is green in
powder containing sp colour and as a fire f Trade name Presto S <u>FINISH</u>	ecial agents to render its hting agent it produces r uper ABE powder. Finish polyester po	free-flowing capabilities. It is green in no toxic effects.

The company is a registered Quality Assured Supplier operating to ISO9001 Quality Standard. All components are manufactured to conform to specific design specifications and are subject to strict quality control at every stage of manufacture.

8. <u>APPROVALS</u>

Approved to Australian Standard AS/NZS 1841.5 License No. 102557 by Global-Mark.

INSTALLATION

For Australia, install as per Australian Standard AS2444:Portable fire extinguishers and fire blankets selection and location.

For New Zealand, install as per New Zealand Standard NZS4503: The distribution, installation and maintenance of hand operated fire fighting equipment for use in buildings.

Although components are corrosion resistant, extinguishers installed where they may be subject to aggressive environments (such as marine) shall be protected from possible deterioration as required by AS2444 and NZS4503.

9.

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10.	<u>SERVICING</u>		
10.1	INSPECTION AND MAINTENANCE		

Periodic inspection and testing of these extinguishers should be carried out in accordance with the Australian Standard AS1851. – Maintenance of Fire Protection Equipment. Section 15: Portable fire extinguishers, or New Zealand Standard NZS4503: The distribution, installation and maintenance of hand operated fire fighting equipment for use in buildings as appropriate for the country where installed.

10.2 SAFETY PRECAUTIONS

- a) Before attempting any repairs, ensure that all propellant gas has been expelled from the extinguisher. Completely depressurise it by inverting the extinguisher and squeezing the operating lever.
- b) Safety glasses and gloves should be worn as eye and skin irritation may occur upon frequent or prolonged contact with the dry powder. Dust masks should also be worn as the dry powder may cause sneezing or slight irritation of the nose and throat.
- c) Do not mix different types or different brands of dry powders. This can result in a pressure increase within a cylinder, creating a hazardous situation.

10.3 RECHARGING INSTRUCTION

Recharging of this extinguisher requires no special tools. However, the repair of detail parts is impractical and all defective parts should be replaced with new parts, which are issued in kit form. To act as a guide to servicing agents, details of replacement kits are shown in the drawing at the back of this Technical Data Sheet.

The recharging of these extinguishers should be carried out as per the "after use routine" AS1851. Section 15 or NZS4503 as applicable.

Additionally, the following steps should also be followed:

Note:Before commencing, check the date of the last pressure test, which will have
been recorded on the maintenance record tag.If pressure testing is required, it must be carried out before any recharging of
the extinguisher takes place.Refer to AS1851. Section 15 or NZS4503 for pressure test requirements as
applicable.

Proceed as follows:

- i) Observe the <u>Safety Precautions</u> as listed in 10.2, paying particular attention to ensure all nitrogen gas pressure has been released.
- Remove hose assembly from the extinguisher valve assembly. Remove valve assembly from the extinguisher body. Unscrew slowly, if there is any residual pressure, an audible sound will be noticeably heard. The valve should not be further removed until sound ceases.

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iii)	Empty and	d discard all residual dry	powder from the cylinder.			
	Note:	NEVER re-use old pov	wder.			
iv)	Unscrew siphon tube from valve assembly.					
v)	Remove the spring and valve check stem assembly from the valve body. Clean the spring and internals of the valve body with compressed air ensuring all deposits of dry powder are removed. Replace check stem assembly if 'O' ring seals are damaged.					
vi)	Remove the neck seal 'O' ring from the valve and discard. Replace with new 'O' ring. Clean 'O' ring groove and mount new 'O' ring into its seating making sure it is not twisted. Lubricate 'O' ring lightly with petroleum jelly.					
vii)	Lightly lubricate the check stem 'O; ring with petroleum jelly (using sparingly) and avoid getting any on the check stem seating. Return check stem assembly and spring to the valve.					
viii)	ensure cle Screw the	ear passage and all pow	oth and blow compressed ai der deposits are removed. he valve assembly until siph			
ix)	If the cylin	der is corroded, conden	cylinder for any corrosion o nn and replace extinguisher clean and dry the cylinder b	. If foreign		
x)	Use only '	Presto Super ABE ' po	bowder as stated on the lab wder. The weight of the dry he extinguisher ineffective.			
xi)	toothbrush		ck threads with a stiff bristle b. Make sure 'O' ring seat in [.] .			
	<u>Note:</u>	•	ist be performed immediate packing down which make e powder.			
xii)	carefully in making su valve asse	n the middle of the neck are the valve thread is lir embly home into the cyli	e cylinder by centering the s ring opening. Push down in ned up with the neck ring the nder until the shoulder on the d onto its seat in the top of t	nto the powder, reads. Screw the ne valve body is		

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<u>Note</u> xiii) Press i	The valve should not to the valve should not to the tightening will be suffice the extinguisher with the tighten with					
The extinguisher will require a charging adaptor that fits into the valve outlet. <u>SAFETY PRECAUTION</u> Ensure that the pressurising equipment used fully complies with the Apparatus Safety Requirements of AS3676 Section 5.						
Proc	edure					
a)	Fit the charging adaptor to the	he valve outlet.				
b)	 b) Connect the pressurising line to charging adaptor quick connect and set the system pressure regulator to a maximum of 150kPa above the extinguisher working pressure. 					
с)	Open the system pressure of lever, and charge extinguish The pressure to be taken fro extinguisher gauge.	ner to the correct working pr	essure of 1500kPa.			
	range. If not replac	sher gauge pointer is in the the gauge. The extinguish ore removing gauge. Follow tion 10.2 and 10.3.	ner will require			
d)	Upon reaching the extinguis operating lever to close valv					
e)	e) Engage safety pin. Disconnect supply line from the charging adaptor and remove the adaptor from the valve outlet.					
f)	Check the extinguisher for le	eaks as described in 10.4.				
After press	<u>OR LEAKS</u> essurising, the extinguisher must be tested for leaks. I as follows:					
i) Put t	he fire extinguisher in the Hel	lium leakage test station.				
ii) Start	up the device to make Heliur	m leakage test.				

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put it into the water to	d light, take off the fire extin check the leaking position. components, pressure gaug per recharge 10.3.	Then rectify by		

- iii) If the device shows green light, that means there is no leakage.
- iv) Pass anti-tamper sealing tie through safety pin, around handle and lever, thread, and pull tight.
- v) Each extinguisher shall have a maintenance / service label fitted.

TROUBLE SHOOTING GUIDE

WARNING:Determine the source of the leak before the extinguisher is
depressurised.
Follow section 10.2 for safety precautions and section 10.3 for
devalving and recharging.

PROBLEM	CORRECTIVE ACTION
Leak at neck ring 'O' ring.	Remove valve assembly, remove and discard 'O' ring, clean seating in neck ring. Clean 'O' ring groove on valve and install new 'O' ring. Lubricate 'O' ring with petroleum jelly. Remount valve assembly.
Leak at valve outlet.	Remove valve and disassemble to remove check stem. Clean all components, making sure all sealing surfaces are clean. Examine valve check stem assembly. Replace if any components damaged. Reassemble extinguisher.
Leak from gauge threads.	Remove gauge, clean threads, apply Loctite 569 thread sealant and re-install.
Defective gauge (ie. Leak through gauge)	Remove gauge and replace with new one (seal threads with Loctite 569).

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19		$ \begin{array}{c} 1 \\ 2 \\ 3 \\ 4 \end{array} $				
		5 6				
17		7				
		8 9				
16		9 10				
		11				
		12				
		13 14				
	ITEM	CSP PART	DESCRIPTION	QTY		
15		R9.0ABE (RH30266A)	9.0 kg ABE DRY POWDER FIRE EXT	1		
	1	RH300909	INDICATOR SEAL (WHITE)	1		
	2	RH300908	9.0 kg SAFETY PIN (SUS201)	1		
	3	1	LEVER (SUS304) HANDLE (SUS304)			
	4 5	/	RIVET (SUS304)	1		
	6	, RH300512	PRESSURE GAUGE 1500 kPa			
	7	T300101-9	NECK SEAL O-RING	1		
	8	1	9.0 kg VALVE STEM	1		
	9	1	9.0 kg VALVE SPRING (SUS304H)	1		
	10	1	9.0 kg SIPHON TUBE ADAPTOR	1		
	11	RH300301	9.0 kg SIPHON TUBE-457mm	1		
	12	RH500258	9.0 kg CYLINDER ASSEMBLY IDENTIFICATION BAND	1		
	13 14	/ RH30266A-T	9.0 kg LABEL ABE DRY POWDER			
	14	RH30266A-1	HOSE CLIP AND CABLE TIE INEGRATED			
	16	RH300731	9.0 kg BRACKET (Q235)	1		
	17	RH500416A	9.0 kg HOSE ASSEMBLY	1		
	18	RH501311	HANGTAG	1		
	19	RH300910	SEAL (GREEN)	1		