Ruihua			Techn	ical Data	Sheet No	. JS-S	M-32
					PAGE: ISSUE:	A 00)
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		DO	CUMENT T	ITLE			
	S		5kg ABE T\ ESSURE DI		ER		
			FIRE EXTI				
		MODEL	: R	1.5ABE			
0	07/13/15	ISSUED FC	R USE AS IS	SUE 'A'	WJJ	LRL	LHG
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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 involving wood, paper, textiles and plastics.
	Fires	Fires involving flowmable and combustible liquide

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, pressurized 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	1.5 kg
Model Number	R1.5ABE
Gross Mass – Charged	3.0 kg
Diameter of body	105mm
Height of overall	371 mm
Ratings to AS/NZS1850	3A:10B:E
Operating Pressure @ 23 C	1500 kPa
Periodic Test Pressure	2.25 MPa
Discharge time (approx)	8 to 11 secs
Packaging carton sizes: Height	390 mm
Width	130 mm
Depth	110 mm

Each extinguisher is individually packed, complete with wire mounting bracket 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 bra	ss forging and nic	kel 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.	<u>Valve Stem Assembly and Spring</u> The valve stem assembly consists of a seals. The spring is stainless steel conical coin nut.		C C	
4.2.4.	<u>Siphon Tube Assembly</u> Consists of a siphon tube and siphon tu of PVC tube, threaded one end for atta The assembly screws into the bottom of which also captivates the valve spring.	ching the tube nut	, which is made from nylon.	
4.2.5.	Pressure Gauge The gauge has a stainless steel case a the valve body. It indicates the nitrogen colour printed face shows the normal o The operable pressure range is shown	a gas pressure with perating pressure	nin the extinguisher. Its of 1500kPa.	
4.2.6.	Safety Pin The safety pin interlocks the operating accidental discharge of the extinguishe be withdrawn from the operating lever I The pin is made from stainless steel. A pull tight anti-tamper seal straps thro handles.	r when not in use. before the extingu	This pull out type pin must isher can be operated.	
4.3	<u>Nozzle and Hose Assembly</u> The hose assembly consists of a textile plated iron inlet adaptor and an outlet r These fittings are secured to the hose I The hose assembly is secured to the va	nozzle made from a by means of crimp	acetal copolymer. ed iron ferrules.	
4.4	LABEL The label indicates the extinguisher con which it is approved. The label also fea operating instructions and states the st extinguisher is produced. In addition to extinguisher cylinder identifies the extin	tures (both written andard and licence the main label a v	and pictorial) simple e number to which the vhite band at the top of the	

RUIHUA RESERVE THE RIGHT TO UPDATE AND CHANGE THIS TECHNICAL DATA AT ANY TIME WITHOUT NOTICE

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4.5	5 <u>MOUNTINGS</u> This extinguisher is supplied with a black painted steel bracket, which provides two fixing holes.				
5.	EXTINGUISHANT The dry powder used in this extinguisher is a 20% monoammonium phosphate based powder containing special agents to render its free-flowing capabilities. It is white in colour and as a fire fighting agent it produces no toxic effects. Trade name Presto ABE powder.				
6.	<u>FINISH</u>				
	Extinguisher Body:	Finish polye of AS2700.	ster powder coated red to a	pproximate colour R13	
	Valve Body:	Brass, Nick	el Plated.		
	Handle and Lever:	Stainless St	eel. Natural Finish.		
7.	QUALITY ASSURANCE				
	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. APPROVALS

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. SERVICING		

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.	
	<u>Note:</u>	NEVER re-use old pov	wder.	
iv)	Unscrew s	siphon tube from valve a	assembly.	
V)	the spring deposits c	and internals of the value of the value of the value of dry powder are removed and the value of	ck stem assembly from the ve body with compressed ai ed. O' ring seals are damaged.	-
vi)	'O' ring. C sure it is r		m the valve and discard. Re I mount new 'O' ring into its Ileum jelly.	
vii)	and avoid	ricate the check stem 'C getting any on the chec eck stem assembly and	C C	using sparingly)
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 '	5kg Presto ABE powder <u>Presto ABE</u> ' powder. T ig may render the exting	The weight of the dry powde	r is critical. Over or
xi)	toothbrush		ck threads with a stiff bristle b. Make sure 'O' ring seat in r.	
	<u>Note:</u>	•	ust be performed immediate packing down which make e powder.	
xii)	carefully in making su valve asse	n the middle of the neck ire the valve thread is lir embly home into the cyli	e cylinder by centering the s ring opening. Push down ir ned up with the neck ring the inder until the shoulder on the d onto its seat in the top of t	to the powder, reads. Screw the ne valve body is

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	re should not ng will be suffi	be tightened by excessive f cient.	orce. A firm hand		
The extinguisher wil	xiii) Pressurise the extinguisher with nitrogen and a small amount of helium The extinguisher will require a charging adaptor that fits into the valve outlet.				
SAFETY PRECAUT Ensure that the pres Safety Requirement	surising equi	pment used fully complies v Section 5.	with the Apparatus		
Procedure					
a) Fit the chargin	g adaptor to t	he valve outlet.			
<i>,</i>	essure regulat	e to charging adaptor quick or to a maximum of 150kPa ire.			
lever, and cha	rge extinguish to be taken fro	control valve, depress extin her to the correct working pl om the pressurizing line gau	ressure of 1500kPa.		
range depre	e. If not replacessurising bef	isher gauge pointer is in the ce the gauge. The extinguis fore removing gauge. Follow tion 10.2 and 10.3.	her will require		
, .		sher working pressure, relea ve. Turn off system gas sup	•		
e) Engage safety remove the ad	-	ect supply line from the cha e valve outlet.	arging adaptor and		
f) Check the exti	nguisher for l	eaks as described in 10.4.			
10.4 <u>TEST FOR LEAKS</u> After pressurized, the exti Proceed as follows:	nguisher mus	t be tested for leaks.			
i) Put the fire extinguis	sher in the He	lium leakage test station.			
ii) Start up the device t	o make Heliu	m leakage test.			

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Note: If the devi put it into	ce shows red light, take off the fire the water to check the leaking pos	e extinguisher and sition. Then rectify by

- replacing valve stem components, pressure gauge or 'O' rings as required. Follow instructions as per recharge 10.3.
- 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
devolving 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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	2 3 4 5 6 7 8 9 10 11 11 12 13 13						
		CSP PART	DESCR	IPTION	QTY		
	ITEM	R1.5ABE	1.5kg ABE DRY POW		1		
	1	(RH30262A) /	1.5 kg SAFETY PIN		1		
	2	, RH300909	INDICATOR SEAL (W		1		
	3	T300105-05	LEVER (SUS304)		1		
	4	T300105-04	HANDLE (SUS304)		1		
	5	T300105-06	RIVET (SUS304)		1		
	6	RH300512	PRESSURE GAUGE 1	500 kPa	1		
	7	1	NECK SEAL O-RING		1		
	8	1	1.5 kg VALVE STEM		1		
	9	1	1.5 kg VALVE SPRING	6 (SUS304)	1		
	10	1	1.5 kg SIPHON TUBE	ADAPTOR	1		
	11	RH300301	1.5 kg SIPHON TUBE-		1		
	12	RH500271	1.5 kg CYLINDER ASS		1		
	13	1	IDENTIFICATION BAN		1		
	14	RH30262A-T	1.5 kg LABEL ABE DF	RY POWDER	1		
	15	RH500719A	1.5 kg BRACKET		1		
	16	RH300423A	HOSE ASSEMBLY		1		
	17 18	RH501311 RH300910	HANGTAG		1		
	10	1/1200910	SEAL (GREEN)		1		