Ruihua		Technical Data	a Sheet N	lo. JS-S	SM-32A	
			PAGE: ISSUE: DATE:	A 0	f 11 0 09/21	
	DO	CUMENT TITLE				
		5kg ABE TYPE ESSURE DRY POW	/DER			
	PORTABLE	E FIRE EXTINGUIS	IER			
	MODEL	: P15P				
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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.
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.

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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	P15P
Gross Mass – Charged	3.0 kg
Diameter of body	105mm
Height of overall	371 mm
Ratings to AS/NZS1850	3A:30B:E
Operating Pressure @ 23°C	1500 kPa
Temperature Range	-30°C ∼ +65°C
Periodic Test Pressure	2.25 MPa
Discharge time (approx)	9 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

CYLINDER

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.

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.

4.1

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4.2.1.	<u>Valve Body</u> The valve body is machined from a bras	s forging and nicke	el plated.			
4.2.2.	<u>Handle and Operating Lever</u> 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 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.	4.2.4. <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.	 <u>Safety Pin</u> The safety pin interlocks the operating lever to the carrying handle and prevents accidental discharge of the extinguisher when not in use. This pull out type pin must be withdrawn from the operating lever before the extinguisher can be operated. The pin is made from stainless steel. A pull tight anti-tamper seal straps through the safety pin and around the valve handles. 					
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 b The hose assembly is secured to the va	ozzle made from ac y means of crimpe	etal copolymer. d iron ferrules.			
4.4	<u>LABEL</u> The label indicates the extinguisher con which it is approved. The label also feat operating instructions and states the sta extinguisher is produced. In addition to t extinguisher cylinder identifies the exting	ures (both written a ndard and licence he main label a wh	nd pictorial) simple number to which the ite 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	<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 70% monoammonium phosphate based powder containing special agents to render its free-flowing capabilities. It is green in colour and as a fire fighting agent it produces no toxic effects. Trade name Presto Super ABE powder.				
6.	<u>FINISH</u>				
		inish polye f AS2700.	ster powder coated red to a	pproximate colour R13	
	Valve Body: B	rass, Nick	kel Plated.		
	Handle and Lever: S	tainless 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.

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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. 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 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 and 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 s	siphon tube from valve a	issembly.	
V)	the spring deposits c	and internals of the value of dry powder are removed	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 leum 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 '		bowder as stated on the lab wder. The weight of the dry juisher 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 makes e powder.	
xii)	carefully in making su valve asse	n the middle of the neck are the valve thread is lin embly home into the cyli	e cylinder by centering the s ring opening. Push down ir 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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	xiii) <u> </u>		tig urise the	htening will be suffic	nitrogen and a small amo	unt of helium	
		<u>SAF</u> Ensi	ETY PRE		arging adaptor that fits into t oment used fully complies w Section 5.		
		Proc	edure				
		a)	Fit the c	harging adaptor to th	ne valve outlet.		
	 b) Connect the pressurizing line to charging adaptor quick connect and set the system pressure regulator to a maximum of 1500kPa above the extinguisher working pressure. 						
		c)	Open the system pressure control valve, depress extinguisher operating lever, and charge extinguisher to the correct working pressure of 1500kPa. The pressure to be taken from the pressurizing line gauge and not the extinguisher gauge.				
			Note: Check the extinguisher gauge pointer is in the green operating range. If not replace the gauge. The extinguisher will require depressurising before removing gauge. Follow relevant instructions in Section 10.2 and 10.3.				
		 Upon reaching the extinguisher working pressure, release extinguisher operating lever to close valve. Turn off system gas supply. 				-	
		e)		safety pin. Disconne the adaptor from the	ect supply line from the cha valve outlet.	rging adaptor and	
		f)	Check tl	ne extinguisher for le	eaks as described in 10.4.		
10.4	After	press	<u>OR LEAKS</u> essurized, the extinguisher must be tested for leaks. as follows:				
	i)	Put t	he fire ex	tinguisher in the Hel	ium leakage test station.		
	ii)	Start	t up the d	evice to make Heliur	n leakage test.		

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Note: If the device shows red light, take off the fire extinguisher and put it into the water to check the leaking position. 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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PART	DESCRIPTIO	ON	QTY
P15P (RH30262)	1.5kg ABE DRY POWDER	FIRE EXT	1
1	1.5 kg SAFETY PIN (SUS	5304)	1
RH300909	INDICATOR SEAL (WHITE	E)	1
T300105-05	LEVER (SUS304)		1
T300105-04	HANDLE (SUS304)		1
T300105-06	RIVET (SUS304)		1
RH300512	PRESSURE GAUGE 1500	kPa	1
1	NECK SEAL O-RING		1
1	1.5 kg VALVE STEM		1
1	1.5 kg VALVE SPRING (SU	JS304)	1
1			1
RH300301			1
RH500271			1
1	IDENTIFICATION BAND		1
RH30262A1-T		OWDER	1
RH500719A			1
RH300423A			1
RH501311C	HANGTAG		1
			1
	CSP PART P15P (RH30262) / RH300909 T300105-05 T300105-04 T300105-06 RH300512 / / / RH300512 / / RH300301 RH500271 / RH30262A1-T RH500719A RH300423A	CSP PARTDESCRIPTIP15P (RH30262)1.5 kg ABE DRY POWDER/1.5 kg SAFETY PIN (SUS/1.5 kg SAFETY PIN (SUSRH300909INDICATOR SEAL (WHITT300105-05LEVER (SUS304)T300105-04HANDLE (SUS304)T300105-06RIVET (SUS304)RH300512PRESSURE GAUGE 1500/1.5 kg VALVE STEM/1.5 kg VALVE STEM/1.5 kg SIPHON TUBE AERH3003011.5 kg SIPHON TUBE AERH5002711.5 kg CYLINDER ASSEM/IDENTIFICATION BANDRH300423AHOSE ASSEMBLYRH501311CHANGTAG	CSP PARTDESCRIPTIONP15P (RH30262)1.5kg ABE DRY POWDER FIRE EXT/1.5 kg SAFETY PIN (SUS304)RH300909INDICATOR SEAL (WHITE)T300105-05LEVER (SUS304)T300105-06RIVET (SUS304)RH300512PRESSURE GAUGE 1500 kPa/NECK SEAL O-RING/1.5 kg VALVE STEM/1.5 kg SIPHON TUBE ADAPTORRH3003011.5 kg SIPHON TUBE-263mmRH5002711.5 kg LABEL ABE DRY POWDER/IDENTIFICATION BANDRH300423AHOSE ASSEMBLYRH501311CHANGTAG