

# RED LINE® HAND PORTABLE EXTINGUISHERS MODEL 20-G-E (CE/PED, EN-3)

Data/Specifications

ANSUL®

## FEATURES

- Rugged, durable, reliable fire protection
- Ergonomically designed for maximum operator performance
- Simple and safe operation
- Performance certified to EN-3
- PED 97/23/EC compliant
- Maintenance checks can be easily made on every moving part
- Field rechargeable
- Choice of dry chemical agents (FORAY® or Purple-K) to satisfy specific protection requirements
- First response fire fighting training available at the ANSUL® Fire School or through trained distributors
- Manual, parts lists, and training video tapes available (in English only)
- Limited warranty
- Sold and serviced through our network of independent distributors in most countries throughout the world

## APPLICATION

RED LINE® dry chemical extinguishers are designed for the protection of ordinary and high risk hazards. This hand portable extinguisher is used in industries where the occurrence or possibility of fire is high. The RED LINE extinguisher has set the standard for reliable fire protection in many industries and applications including refining, petrochemical, oil and natural gas production, mining, transportation, utilities, metal processing, paint process areas, welding areas, material storage areas and many others.

## DESCRIPTION

- Dry chemical tank shell is a three piece steel assembly consisting of a welded tube, a bottom closure and a top closure.
- Forged, non-slip aluminum handle positions extinguisher at optimum 45° angle for easy carrying.
- Each finished shell assembly is hydrostatically tested at three times the operating pressure (41.4 bar (600 psi)) and is designed to withstand a pressure of no less than six times the normal operating pressure.
- Cartridge receiver is made of cast aluminum with a stainless steel insert to prevent thread wear.
- Stainless steel puncture pin is sealed with impregnated felt washers which seal against moisture and provide lubrication to the pin.
- Large 7.6 cm (3 in) fill opening allows for fast and easy recharge.
- Large forged aluminum fill cap seals the shell, protecting the agent from contamination. A tamper seal may also be attached to the fill cap to prevent tampering with the agent.
- Flat gasket and quad ring on fill cap provide a gas and moisture tight seal.
- Handle is spring loaded to prevent movement during vibration.
- Hanger attachment is located on extinguisher to allow for easy removal from wall bracket.
- Split nameplates are etched aluminum with a varnish coating to provide durability, readability, and corrosion resistance.



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- The front operating nameplate has easy to understand instructions and pictograms for the inexperienced operator.
- The back maintenance nameplate contains after-use and maintenance information, model bar code, along with approvals and other pertinent information.
- Standard models are equipped with CO<sub>2</sub> cartridges and receivers which are listed and approved for operation in environments with temperatures between -30 °C (-22 °F) to 60 °C (140 °F).
- Hose couplings are corrosion resistant aluminum alloy. The shell connection coupling is equipped with an O-ring to provide a proper seal.
- Shell connection coupling is internally machined to accept an inspection seal and retaining ring.
- Nozzle body is cast aluminum with component parts of stainless steel and other corrosion resistant materials.
- Nozzle plunger assembly is provided with two guide bushings to assure proper seating when used with intermittent discharge, thus providing gas and water tightness.
- Nozzle design directs the nozzle body downward when the nozzle is squeezed thus directing the agent stream at the base of the fire and increasing the chance of extinguishment.
- Nozzle tips feature a converging-diverging design to give an expanded round stream of dry chemical.
- The steel gas tube is designed with two rubber check valves clamped in place. The check valves, which cover the gas discharge holes, produce multidirectional gas streams to fluidize the dry chemical agent.
- Agent outlet elbow is machined from low carbon steel barstock and allows for maximum discharge of the dry chemical when the extinguisher is held at the normal 45° angle.
- Discharge hose is ethylene propylene diamine and tested for use at temperatures of -30 °C (-22 °F) to 60 °C (140 °F).
- Completed assembly is subjected to a final production air test of 16.6 bar (240 psi) and stamped to indicate year of manufacture.



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## DESCRIPTION (Continued)

- Expellent gas cartridge is fabricated of one-piece spun steel and certified to the TPED (99/36/EC).
- Cartridges are sealed with a brass seal assembly utilizing a copper seat. The seal assembly has "ANSUL" printed on it indicating the seal meets or exceeds ANSUL's quality levels.
- Cartridge seal has a safe rupture pressure range of 279 to 310 bar (4050 to 4500 psi) in a temperature range of 91 °C to 99 °C (195 °F to 210 °F).
- Painted steel parts are prepared by going through a series of surface preparation steps, including degreasing, an acid pickling process, iron phosphate bonding and chromate sealing.
- The parts are then painted using an electrostatically applied polyester powder coating and cured at 185 °C (365 °F).
- Cartridge guard is made of a composite consisting of fiber filled, polypropylene and various additives to resist UV degradation and maintain strength and integrity.
- Composite guard is designed with the nozzle holster as an integral part of the one piece construction. It contains a hose retainer tab which can be used to attach the visual inspection seal. The guard is designed to prevent its removal unless the inspection seal is broken.



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Model	RP-A-20-G-E	RP-K-20-G-E
<b>Part No. (Spanish)</b>	435673	435674
<b>Part No. (German)</b>	434972	435538
<b>Part No. (English)</b>	N/A	436076
<b>Agent</b>	FORAY	Purple-K
<b>EN-3 (European)</b>	55A 233B C	233B C
<b>Capacity</b>	9 kg (19.8 lb)	9 kg (19.8 lb)
<b>Discharge Time</b>	20 sec	22 sec
<b>Flow Rate</b>	0.41 kg/sec (0.91 lb/sec)	0.41 kg/sec (0.91 lb/sec)
<b>Effective Range</b>	6.1 m (20 ft)	9.1 m (30 ft)
<b>Nozzle Stream</b>	Expanding	Expanding
<b>Certifications</b>	PED/EN-3	PED/EN-3
<b>Brackets</b>		
• Multipurpose	Part No. 14091	Part No. 14091
• Heavy Duty	Part No. 30759	Part No. 30759
<b>Charged Weight (Nominal)</b>	16.8 kg (37.16 lb)	17 kg (38.16 lb)
<b>Dimensions:</b>		
Height	52.1 cm (20.5 in)	52.1 cm (20.5 in)
Width	26.4 cm (10.4 in)	26.4 cm (10.4 in)
Depth	17.8 cm (7.0 in)	17.8 cm (7.0 in)
<b>Hose ID</b>	1.3 cm (0.5 in)	1.3 cm (0.5 in)
<b>Hose Length</b>	80.3 cm (31.6 in)	80.3 cm (31.6 in)
<b>Shell OD</b>	15 cm (6.0 in)	15 cm (6.0 in)

## AGENTS

### FORAY®

A monoammonium phosphate-based agent for use on Class A (solid materials, usually of an organic nature), Class B (liquids or liquifiable solids), and Class C (gas) fires.

### Purple-K

A potassium bicarbonate-based agent which is the most effective ANSUL agent for knock-down of Class B (liquids or liquifiable solids) and Class C (gas) fires.

## CERTIFICATIONS AND APPROVALS

### RED LINE Extinguisher:

- PED (97/23/EC)
- EN-3

### Model 20 Cartridge:

- TPED (99/36/EC)

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