



TM

US PATENT  
# 6,682,313

# TRIDENT

EMERGENCY PRODUCTS, LLC

Tomorrow's Ideas  
Delivered Today

**AIR PRIME FEATURES:**

- ▶ SMALL AND QUIET
- ▶ LIGHT WEIGHT
- ▶ INTEGRAL PRIME VALVE
- ▶ SELF DRAINING
- ▶ NO CURRENT DRAW
- ▶ CORROSION RESISTANT
- ▶ NO MOVING PARTS
- ▶ NFPA 1901 COMPLIANT
- ▶ PUSH BUTTON CONTROL
- ▶ ENVIRONMENTALLY SAFE
- ▶ (2) BARREL USES 7 CFM
- ▶ (3) BARREL USES 10 CFM

**TRIDENT EMERGENCY  
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## REVOLUTIONARY- NEW PRIMING PUMP THAT IS POWERED BY THE AIRBRAKE SYSTEM ALREADY ON THE APPARATUS

**TWO BARREL & THREE BARREL DESIGN AVAILABLE  
DEPENDING ON PUMP AND AIR COMPRESSOR SIZE.**

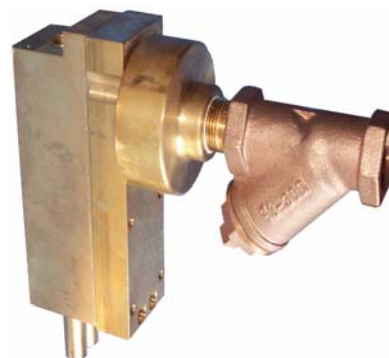
FINALLY, A PRIMING PUMP HAS BEEN DESIGNED AND DEVELOPED THAT UTILIZES THE RELIABILITY OF THE TRUCK'S AIRBRAKE SYSTEM TO POWER A JET PUMP WITH NO MOVING PARTS. THERE ARE NO PARTS TO WEAR, LUBRICATE, OR REPLACE. PRIMING IS FAST, QUIET AND AUTOMATIC. AN INTEGRAL PRIMING VALVE IS HOUSED IN THE *AIR PRIME* INLET. THE PRIMING VALVE WILL OPEN AUTOMATICALLY WHEN THE PUSH BUTTON ON THE CONTROL PANEL IS DEPRESSED AND AIR IS DIRECTED TO THE *AIR PRIME* INLET.



DIRECT MOUNT TO  
SOME MIDSHIP PUMPS

#31.003.2 -----

#31.001.2 -----



3/4" FNPT MOUNT  
FOR ANY PUMP

-----#31.003.7

-----# 31.001.7

### TRIDENT

2 BARREL PART #

3 BARREL PART #

#### 3 BARREL DESIGN

- ▶ 15.6 CFM MINIMUM AIR COMPRESSOR RATING
- ▶ 1250 GPM AND LARGER FIRE PUMP RATING



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#### 2 BARREL DESIGN

- ▶ 13.2 CFM MINIMUM AIR COMPRESSOR RATING
- ▶ 1000 GPM AND SMALLER FIRE PUMP RATING

# PUMP PRIMER COMPARISON OF FEATURES



NEW TECHNOLOGY

OLD TECHNOLOGY

FEATURE	AIRPRIME	ROTARY-VANE
BODY MATERIALS	BRASS & STAINLESS	ALUMINUM
WEIGHT	7 LBS.	27 LBS
SIZE (L x W x H)	4" x 3-3/4" x 8"	12-3/4" x 7-1/4" x 6-1/2"
MOVING PARTS	NONE	6
WEAR ITEMS	NONE	VANES / BODY
LUBRICANT TANK	NONE	ON SOME MODELS
NOISE @ PANEL	< 65 dBA	> 92 dBA
SELF DRAINING	YES	NO
CONTROL TYPE	PUSH BUTTON	PULL "TEE" HANDLE
MAX AMP DRAW	ZERO	300 AMPS
ALLOWED RUNTIME	UNLIMITED	60 SECONDS MAX
NFPA COMPLIANT	YES	YES
WARRANTY	5 YEARS	2 YEARS
PANEL SPACE	5-1/2 SQUARE INCHES	5-1/2 SQUARE INCHES
PRIMING VALVE	BUILT INTO PRIMER	MOUNTED AT PANEL
OWNERSHIP COST	LOW	HIGH

**DETAILED SPECIFICATIONS:**

**PRIMING PUMP:** The priming pump shall be a Trident Emergency Products compressed air powered, high efficiency, multi-stage, venturi based AirPrime™ System. All wetted metallic parts of the priming system are to be of brass and stainless steel construction. A single panel mounted control will activate the priming pump and open the priming valve to the pump. The priming system shall have a five year warranty.

**ADDITIONAL PRIMER CONTROL:** An additional primer control valve shall be furnished to prime the front/rear suction line plumbing. The Trident Emergency products RPV (remote priming valve) shall activate using the same air that powers the AirPrime™ system when the coinciding panel valve is depressed. Priming the remote suction line evacuates air from that line and minimizes cavitation during remote suction operations. The valve control is to be co-located next to the main priming valve control on the pump operator's panel.



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TM

PATENT PENDING

**TRIDENT**  
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**AIR PRIME REMOTE FEATURES:**

- ▶ SMALL AND SILENT
- ▶ LIGHT WEIGHT
- ▶ 3/4" FNPT CONNECTIONS
- ▶ 1/4" FNPT AIR FITTINGS
- ▶ NO CURRENT DRAW
- ▶ CORROSION RESISTANT
- ▶ NFPA 1901 COMPLIANT
- ▶ PUSH BUTTON CONTROL FOR EACH LOCATION
- ▶ UNLIMITED LOCATIONS
- ▶ USE WITH *AIRPRIME*

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**REVOLUTIONARY-  
NEW AIR POWERED  
PRIMING VALVE- ALLOWS  
SELECTIVE PRIMING OF  
MULTIPLE LOCATIONS  
USING ONLY ONE AIR  
POWERED PRIMER**

**COMPLETELY AIR POWERED**

FINALLY, A PRODUCT THAT ALLOWS FOR PRIMING FROM MULTIPLE-LOCATIONS USING ONLY ONE CONTROL. UNTIL NOW, IF PRIMING FROM MULTIPLE LOCATIONS WAS REQUIRED, EITHER A SELECTOR VALVE OR MULTIPLE PRIMING PUMPS WERE UTILIZED. BY USING THE TRIDENT EMERGENCY PRODUCTS, REMOTE PRIMING VALVE(S) IN CONJUNCTION WITH THE AIR-POWERED PRIMER, THE PUMP OPERATOR ONLY HAS TO DEPRESS THE PANEL PUSH-BUTTON FOR THE LOCATION TO BE PRIMED. SEE SCHEMATIC BELOW.



**REMOTE PRIMING VALVE (RPV)**

