



# BANLAW

"innovative refuelling specialists"

www.banlaw.com

## ReFuelling Nozzles



### The World's Toughest and Safest Nozzles

#### Toughest

Made from steel and aluminium, not plastic, BANLAW Refuelling Nozzles last twice as long in the field. Our accredited repairer network fix them like new. BANLAW - **Repairable not disposable!**

#### Safest

BANLAW nozzles have a proven safety record because our dependable ball locking mechanism means the nozzle cannot 'fly off', risking the safety of the refuelling operator. Refuelling at ground level and automatic cut-off means the BANLAW nozzle is easier to use and the refuelling operators don't risk climbing onto vehicles, thus reducing the chance of worker injury and compensation.

#### Cleaner Environment

The BANLAW Dry Break automatic cut-off system reduces the risk of fuel spills, ensuring a cleaner working environment.

#### Increased Productivity

With a 2" bore, BANLAW nozzles have the highest flow rate capability, reducing refuelling times. This means better vehicle productivity. The choice of 5 shut-off pressure settings allow flexible solutions to the most complex refuelling problems.

#### The Best Investment

The BANLAW nozzle is repairable, not disposable, lasts twice as long in the field and can reduce refuelling times. Basically, it costs less in the long run and is built to last.

All BANLAW nozzles are:

- Compatible with the BANLAW FillSafe™ System (Zero Tank Pressure)
- Compatible with the BANLAW FuelTrack™ System (Fuel Monitoring)

YOUR INVESTMENT  
IS MAXIMISED BY CHOOSING  
**BANLAW**



**BANLAW**

"Innovative refuelling specialists"

## BP800 Series Nozzles

FLOW RATE 170 - 800 LPM / 45-211GPM

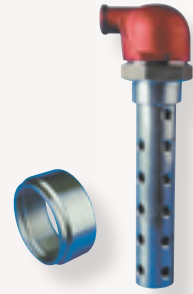
### Mining



BPM800 Nozzle

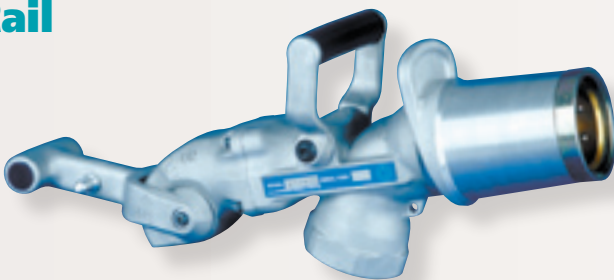


AUS23 Receiver



AUS25A Vent with AUS25AA-1 Coupling

### Rail



BPR800 Nozzle

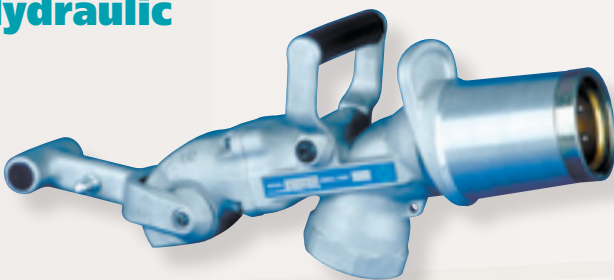


AUS23R Receiver



AUS25R Vent with AUS25AA-1 Coupling

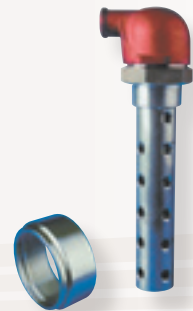
### Hydraulic



BPH800 Nozzle



AUS23B Receiver

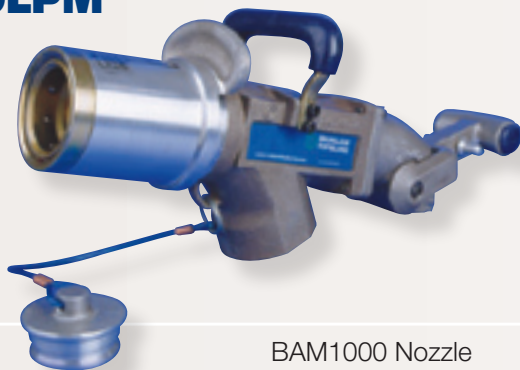


AUS25A Vent with AUS25AA-1 Coupling

# BA1000 Series Nozzles

FLOW RATE 400 - 1000 LPM / 106-264GPM

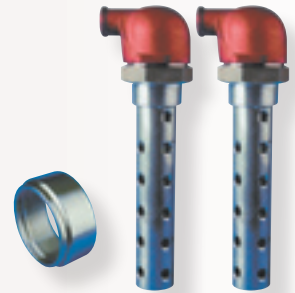
## 1000LPM



BAM1000 Nozzle



AUS43 Receiver



2 Vents required

AUS25A Vents with AUS25AA-1 Coupling

## Accessories

### Operation Sign AUSOPSIGN-2

**BANLAW**  
"innovative refuelling specialists"

**REFUELLING NOZZLE INSTRUCTIONS**

**STEP 1**

- 1.1 REMOVE RECEIVER CAP.
- 1.2 REMOVE NOZZLE FROM ANCHOR OR PLUG FROM FRONT OF NOZZLE.
- 1.3 ENSURE MATING SURFACES OF RECEIVER AND NOZZLE ARE CLEAN AND UNDEFORMED.

**STEP 2**

- 2.1 ENSURE OPERATING HANDLE IS LOCKED IN THE OFF POSITION.
- 2.2 RETRACT ACTUATOR AND PUSH NOZZLE FIRMLY ONTO THE RECEIVER.
- 2.3 RELEASE ACTUATOR AND PUSH NOZZLE FIRMLY ONTO RECEIVER.
- 2.4 REPEAT STEPS 2.2 AND 2.3 UNTIL NOZZLE IS SECURELY CONNECTED.

**STEP 3**

- 3.1 RELEASE CATCH USING TRIGGER AND ROTATE HANDLE INTO ON POSITION.
- 3.2 NOZZLE WILL AUTOMATICALLY TURN OFF AFTER TANK VENT HAS CLOSED.
- 3.3 DO NOT MANUALLY HOLD NOZZLE IN THE ON POSITION DURING REFUELLING OR AFTER TANK VENT HAS CLOSED.

**STEP 4**

- 4.1 ENSURE OPERATING HANDLE IS LOCKED IN THE OFF POSITION.
- 4.2 RETRACT ACTUATOR AND REMOVE NOZZLE FROM RECEIVER.
- 4.3 RETURN NOZZLE TO ANCHOR OR REPLACE NOZZLE PLUG.
- 4.4 REPLACE RECEIVER CAP.

PROMPTLY REPORT ANY PROBLEMS TO YOUR SUPERVISORS  
www.banlaw.com "The Refuelling Specialists"



AUS23C-R Cap



AUS23C Cap



Breakaway Valve



AUS43C Cap



800 Anchor AUS21A049



1000 Anchor AUS22049



Zinc Plated Steel Swivels  
various sizes available  
AUS10 Shown



Anodized Aluminium Swivels  
various sizes available  
AUS50 & AUS52 Shown



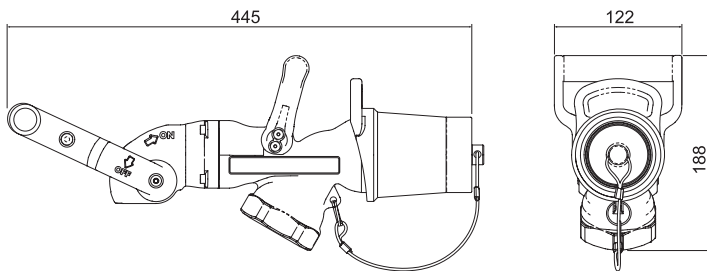
AUS24A  
Shell Receiver & Cap



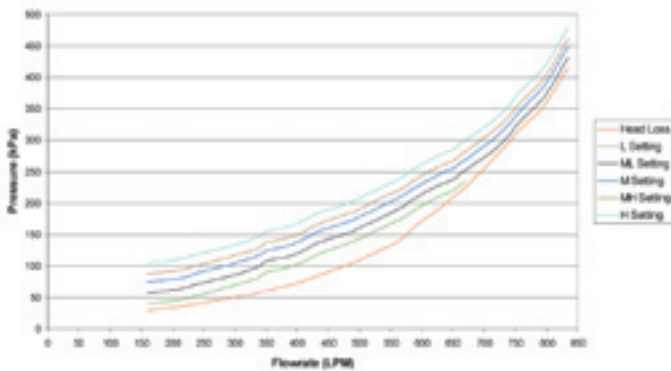
Receiver Socket  
(AUS23SOCKET)



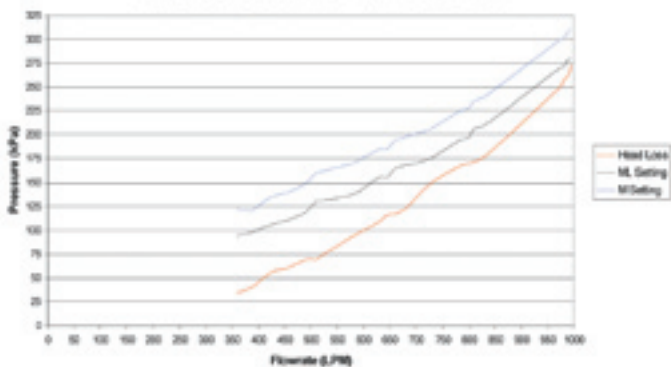
Receiver Socket  
(AUS-RSOCKET)



800 Series Nozzle - Flow Test Data



1000 Series Nozzle - Flow Test Data



## Legend

L (Light), ML (Medium/Light), M (Medium)  
MH (Medium/Heavy), H (Heavy)

## Head loss curves

show pressure drop across nozzle & Banlaw Receiver (Diesel)

## Setting curves

Automatic shut-off of nozzle is initiated by a limiting static pressure measured at the 2" nozzle inlet. Nozzle spring setting is determined by flow rate and head pressure of refuelling application. Actual inlet static pressure must be less than that shown for spring setting.

e.g. For 800 series: 150kPa @ 450 l/min, require minimum of M spring setting

## Recommended Operating Conditions

Maximum Static Head Pressure: 2.5 MPa (363 psi)

## Flowrate Range Diesel

1000 Nozzle 400-1000 l/min. (106-264 gals/min.)

800 Nozzle 170-800 l/min. (45-211 gals/min.)

## Spring Settings

L, ML, & M spring P/N. BP800029

MH & H spring P/N. BP800027

Nozzle setting denoted by letters L, M, etc. after nozzle model No. e.g. BPM800M, BAM1000ML

## Physical Properties

Mass (with plug)

1000 Series Nozzle 4.3 kgs. (9.5 lbs.)

800 Series Nozzle 3.4 kgs. (7.5 lbs.)



## Constituent Materials

Aluminium, zinc plated mild steel,  
stainless steel, polyurethane, VITON seals.

Call for a full consultation **Banlaw** Pty. Ltd.

19 Metro Court Gateshead NSW 2290 Australia

t: +61 (0)2 4922 6300 f: +61 (0)2 4920 6171

w: www.banlaw.com e: sales@banlaw.com.au

ABN 88 062 044 071 Aus Pat. 750544 US Pat. 6622760

Call your authorised **BANLAW** agent

**Please Note:** Use only Banlaw factory replacement parts. Failure to do so may cause equipment failure or malfunction, vehicle damage and invalidate factory warranty.