

COBRA BUMPER TURRET

FIXED OSCILLATION

FDD020

- One Of The Most Widely Used Bumper Turrets In The World
- Proven Design That Has Lasted For Over 30 Years
- Ergonomic Joystick Control



Description

The Feecon Pneumatic Bumper Turret is a compact air-operated turret capable of discharging water or AFFF solution, available in flow rates from 75 GPM (285 LPM) to 500 GPM (1900 LPM) at 200 PSI (14 bar).

Feecon Pneumatic Bumper Turrets are designed to meet or exceed the requirements of NFPA 414 Standard for Aircraft Rescue and Fire Fighting Vehicles and FAA Advisory Circular 150/5220-1 OA Guide Specification for Water/ Foam Aircraft Rescue and Firefighting Vehicles.

The entire turret is designed with the operator in mind. An electric joystick control, solenoid valves and pneumatic cylinders are used to direct turret rotation, elevation, and pattern change functions. The ergonomically designed illuminated joystick control, mounted within the vehicle cab, allows total turret operation with the operator's hand on the joystick. Thumb-operated switches activate automatic oscillation, constant discharge and pattern change functions. A forefinger-operated discharge trigger switch is provided for momentary discharge.

The rugged design locates all pneumatic speed controls, valves, hoses, and switches in the base enclosure for protection from damage and tamper resistance. Turret operating speeds and automatic oscillation setting are easily field adjustable (20° to 180°) through an access cover on the bottom of the turret enclosure.

Features

- Compact ergonomically designed illuminated joystick control for rotation and elevation
- Thumb-operated switches on joystick control:
 - Automatic oscillation
 - Constant discharge
 - Solid or dispersed nozzle pattern
- Forefinger operated momentary discharge switch
- Infinitely adjustable automatic oscillation setting from 20° to 180°
- Flow rates available from 75 GPM (285 LPM) to 500 GPM (1900 LPM) at 200 PSI (14 bar)
- Non-aspirating or air aspirating nozzles. Aspirating nozzles are available for 250 GPM (950 LPM) and 300 GPM (1150 LPM) rates only
- Stream pattern infinitely variable from solid stream to flat fan pattern
- 12 Volt DC or 24 Volt DC operation
- Corrosion resistant bronze waterway
- Optional bolt-on dry chemical nozzle kit

Specifications

The bumper turret shall be of corrosion resistant bronze construction with the capacity to discharge up to 500 GPM of water or AFFF solution. The turret shall have 180° of horizontal rotation travel, and vertical travel from 45° above horizontal to 20° below horizontal. All functions shall be pneumatically operated and controlled by solenoid operated valves with simple switching

and relay logic, for ease of maintenance. No solid state or integrated circuit electronics are utilized. All pneumatic actuators, speed controls, valves, and hoses shall be completely enclosed within the base enclosure for protection and tamper resistance. The turret shall be controlled by an ergonomically designed compact joystick designed to fit in a panel opening 3.5" (89mm) square by 6" (152mm) deep. Switches for automatic oscillation, constant discharge, and pattern adjustment shall be positioned for thumb operation and shall have the function clearly marked and backlit illuminated for low light viewing. A forefinger operated trigger type switch shall be provided for momentary discharge.

Minimum operating temperature shall be -40°F (-40°C).

Turret performance shall meet or exceed the requirements of NFPA 414 Standard for Aircraft Rescue and Fire Fighting Vehicles, and FAA Advisory Circular 150/5220-1 OA Guide Specification for Water/Foam Aircraft Rescue and Firefighting Vehicles.

Technical Data

Type:

Electric over pneumatic with electric joystick control

Materials of Construction:

Bronze waterway with aluminum panel enclosure

Operating Pressure:

200 PSI (14 bar)

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Technical Data (cont.)

Available Flow Rates:

75 GPM (285 LPM)
100 GPM (380 LPM)
150 GPM (570 LPM)
200 GPM (760 LPM)
250 GPM (950 LPM)
300 GPM (1150 LPM)
500 GPM (1900 LPM)

Agent Capabilities:

Water, AFFF, Class A and Compressed Air Foam

Nozzle Type:

Aspirating or non-aspirating. Air aspirating nozzles available for 300 GPM (1150 LPM) rate only

Range:

Up to 200 feet (61 m) at 500 GPM Rate

Rotation Angle:

180° (90° either side of turret centerline)

Elevation Angle:

45° above horizontal

Depression Angle:

20° below horizontal

Electrical Requirements:

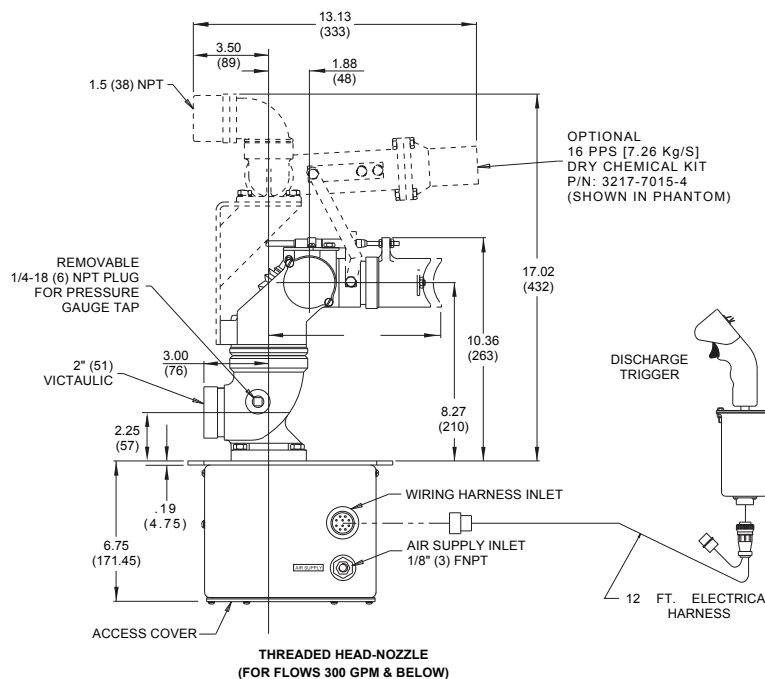
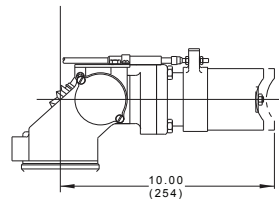
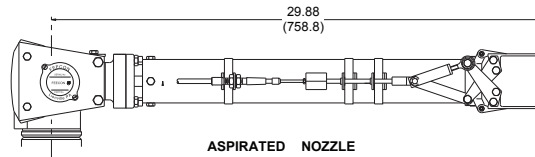
2 Amps at 12 Volt DC, 1 Amp at 24 Volt DC (includes maximum 1 Amp discharge valve load by customer)

Pneumatic Requirements:

0.69 CFM at 60 PSI (4.1 Bar) to 134 CFM at 130 PSI (9 Bar)

Optional Dry Chemical Flow:

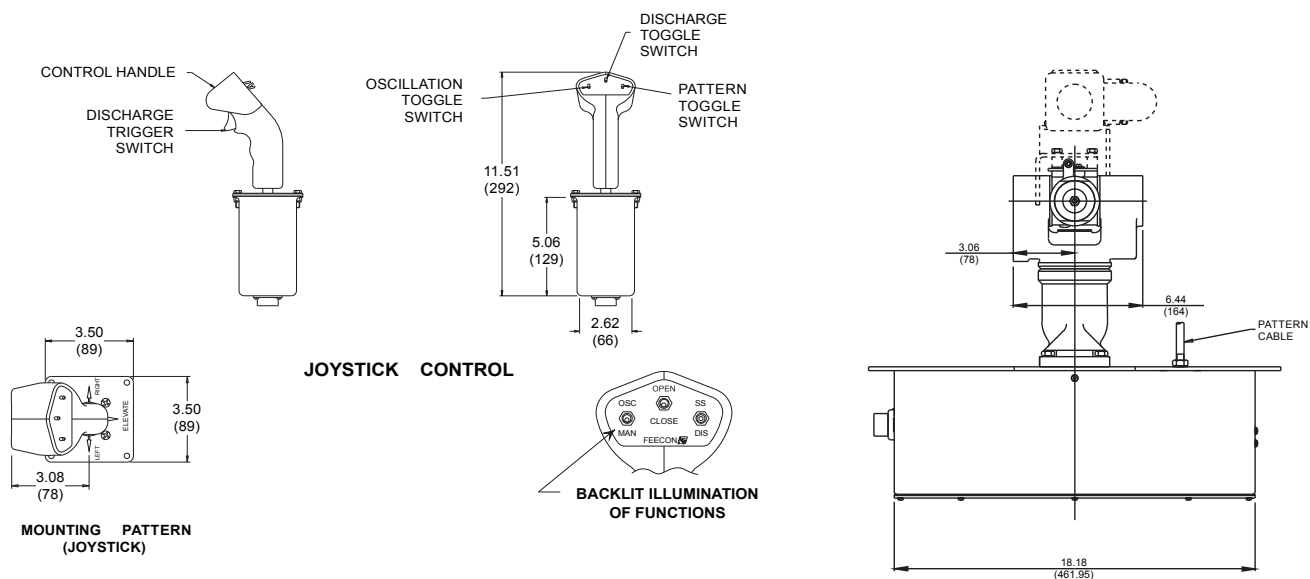
16 lb/sec (7 Kg/sec) at 200 PSI (14 bar)



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ORDERING INFORMATION

Part No. 12 VDC	Part No. 24 VDC	Flow Rate gpm (lpm) at 200 psi (14 bar)	Nozzle Type	Finish
1252-7001-3	1252-7001-7	75 (285)	Non-Asp	Black Gloss
1252-7002-3	1252-7002-7	100 (380)	Non-Asp	Black Gloss
1252-7003-3	1252-7003-7	150 (570)	Non-Asp	Black Gloss
1252-7004-3	1252-7004-7	200 (760)	Non-Asp	Black Gloss
1252-7005-3	1252-7005-7	250 (950)	Non-Asp	Black Gloss
1252-7006-3	1252-7006-7	300 (1150)	Non-Asp	Black Gloss
1252-7007-3	1252-7007-7	500 (1900)	Non-Asp	Black Gloss
Dry Chemical Kit:				
3217-7015-4		16 PPS (7.3 Kg/Sec)	Non-Asp	Black Gloss
1252-7057-4	1252-7057-5	300 (1150)	Aspirating	Black Gloss

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