

DATA SHEET #NDD140

PC-40, PC-50, PC-60 MONITOR MOUNTED NOZZLES

Description

The PC-40, PC-50 and PC-60, Air Aspirating Foam Nozzles are designed to be mounted on fixed or portable monitors and can be used anywhere high capacity foam streams are required. The air aspirating design produces superior foam with all foam types, resulting in increased expansion and longer drainage times than with non-air aspirating type nozzles. This results in premium foam blanket performance and stability for safer operation. Nozzle discharge pattern is adjustable from full spray to straight stream allowing the operator precise control of the foam application. The nozzle is available in flow rates of 400, 500, or 600 gpm @ 150 psi inlet pressure (1514, 1893, or 2271 lpm @ 10.3 bar).

Features

- High capacity, air aspirating, monitor mounted foam nozzle.
- Excellent foam production with protein, fluoroprotein, AFFF, and AR-AFFF type foams.
- Can be provided in lightweight aluminum construction, or brass for superior corrosion resistance and wear.
- Fully adjustable pattern from straight stream to full spray.
- Superior nozzle reach allows safe placement remote from the hazard.
- Suitable for operating pressures from 50 to 200 psi (3.5 to 13.8 bar).

Applications

The PC-40, PC-50, and PC-60, Air Aspirating Foam Nozzles can be mounted on manual, oscillating, and

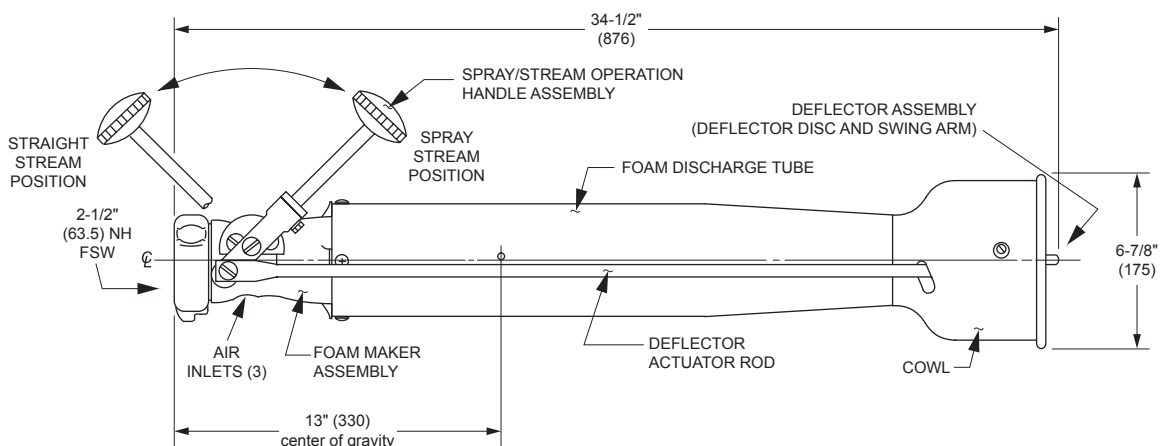
remote controlled monitors. They are commonly used to protect product storage tanks, dikes, process areas, and loading racks. The nozzles are suitable for use on foam pumpers, foam trailers, aerial apparatus, and various marine applications such as tankers and barges, chemical carriers, fire boats, docks, and offshore platforms.

Specifications

The PC type nozzle shall be a monitor mounted air aspirated design for use with all types of foam concentrates. The air-aspirating design shall produce superior foam, with all foam types, resulting in increased expansion and longer drainage times than can be achieved with non-air aspirating nozzles. A pattern control assembly shall be provided to allow selection of nozzle discharge from full spray to straight stream. The nozzle can be supplied with flow rate choices of 400, 500, or 600 gpm @ 150 psi inlet pressure (1514, 1893, or 2271 lpm @ 10.3 bar) and shall be suitable for use with all foam concentrates.

The nozzle shall be available with either a cast aluminum foam maker and aluminum discharge tube, or a cast brass foam maker and brass discharge tube. The discharge tube shall be fabricated from seamless tubing shaped to provide optimum performance. The orifice shall be a shaped jet to improve the efficiency of the nozzle. The orifice shall be removable and held in place with a snap ring. The nozzle shall have a 2-1/2" FNH swivel inlet manufactured of hard coat anodized aluminum or brass. The nozzle shall have an oven baked fusion coated polyester finish.

The nozzle shall be UL listed, F.M. approved, USCG approved, and approved by the New York City Board of Standards and Appeals.



Approvals

- UL Listed
- FM Approved
- USCG Approved
- New York City Board of Standards and Appeals

Technical Data

Materials of Construction:

Brass Model

Foam Maker.....Cast Brass, ASTM B-62
 Discharge tubeBrass Tubing
 DeflectorCast Brass
 Deflector RodStainless Steel Tubing
 Swivel Gasket.....Buna-N

Aluminum Model

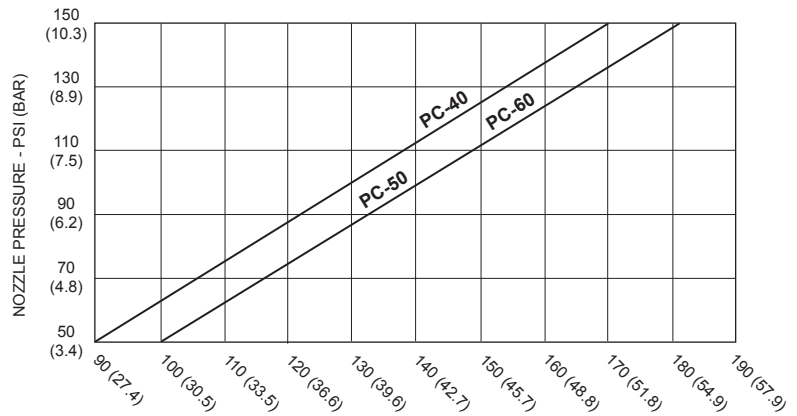
Foam Maker.....Cast Aluminum
 Discharge TubeAluminum Tubing
 DeflectorCast Aluminum
 Deflector RodStainless Steel Tubing
 Swivel Gasket.....Buna N

Finish:.....Abrasive Blast to SSPC-SP6.
 Chemical wash, rinse, and seal. Oven baked fusion coated polyester, 3 mils dry film thickness (DFT), gold (brass) or silver (aluminum) color

Working Pressure:..... 150 psi (10.3 bar)

Options

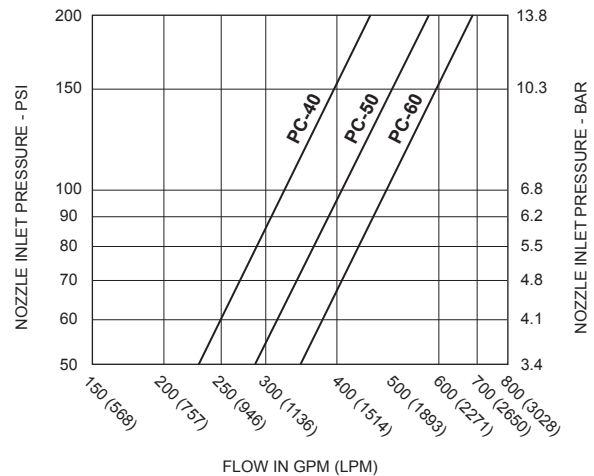
Hydraulic Spray Actuator



STRAIGHT STREAM RANGE IN STILL AIR - FEET (METERS)

Range is with nozzle elevated 22.5° and nozzle inlet 3-6 ft (1-2 m) above ground level

RANGE CHARACTERISTICS OF STRAIGHT STREAM NOZZLES



WATER OR FOAM SOLUTION NOZZLE DISCHARGE CHARACTERISTICS

Ordering Information

Part Number	Model	Actuator	Flow @ 150 psi (10.3 bar)	Material	Thread	Weight
1251-1370-0	PC-40-MOS	Manual	400 gpm (1514 lpm)	Brass & SS	2-1/2" FNH	23 lb (10 kg)
1251-1401-5	PC-50-MOS	Manual	500 gpm (1893 lpm)	Brass & SS	2-1/2" FNH	23 lb (10 kg)
1251-1415-0	PC-60-MOS	Manual	600 gpm (2271 lpm)	Brass & SS	2-1/2" FNH	23 lb (10 kg)
1251-1380-0	PC-40A-MOS	Manual	400 gpm (1514 lpm)	Alum. & SS	2-1/2" FNH	14 lb (6 kg)
1251-1408-4	PC-50A-MOS	Manual	500 gpm (1893 lpm)	Alum. & SS	2-1/2" FNH	14 lb (6 kg)
1251-1420-0	PC-60A-MOS	Manual	600 gpm (2271 lpm)	Alum. & SS	2-1/2" FNH	14 lb (6 kg)
1251-1370-2	PC-40-HOS	Hydraulic	400 gpm (1514 lpm)	Brass & SS	2-1/2" FNH	25 lb (11 kg)
1251-1401-7	PC-50-HOS	Hydraulic	500 gpm (1893 lpm)	Brass & SS	2-1/2" FNH	25 lb (11 kg)
1251-1415-2	PC-60-HOS	Hydraulic	600 gpm (2271 lpm)	Brass & SS	2-1/2" FNH	25 lb (11 kg)

This information is only a general guideline, and each installation may require modifications to meet the applications or requirements of that situation. The company reserves the right to change any portion of this information without notice. Terms and conditions of sale apply and are available on request.

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P.O. Box 695 • Exton, PA 19341-0695 • (610) 363-1400 • Fax: (610) 524-9073

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