



Product name	HYDRO - CHEM
Description	Adjustable Flow, Hand-line Nozzles
Manufacturer	Williams Fire & Hazard Control
Edition	1.0/2024

ASK ABOUT THE PRODUCT

1. Description

Adjustable Flow dual-agent hand-line nozzle from Williams Fire & Hazard Control incorporates a foam solution or water application with built-in HYDRO-CHEM Technology for simultaneous dry chemical application.

The nozzle is a powerful handheld discharge device designed to flow water or fire extinguishing foam solution supplied by a separate proportioning system. It features a pistol grip for easy and secure operations with gloved hands. It can be set to flow 60 gpm, 95 gpm, or 125 gpm (227 Lpm, 360 Lpm, or 473 Lpm) by the collar mounted ring adjustment. It also includes a flush setting for flushing out small objects caught in the nozzle. The water/foam stream is adjustable from full fog to straight stream by rotating the nozzle collar.

Unlike conventional hand-line nozzles it has the capability to discharge dry chemicals such as WILLIAMS FIRE & HAZARD CONTROLS' PKW. After a fire is controlled by water/foam solution application, a dry chemical is usually the more effective way to extinguish 3-dimensional or pressured liquid fires. The dry chemical is piped in through a separate dry chemical hose using pressurized nitrogen gas. When the flow valve on the dry chemical port of the nozzle is opened, the nozzle discharges the dry chemical through the center of the foam/water stream to achieve ranges not possible with conventional equipment. It greatly enhances the effectiveness and reach of the dry chemical application by using the water/foam stream as the carrier and reduces the risks firefighters are exposed to. The flow rate of the dry chemical is selectable at 3 lb/sec, 5 lb/sec, 7 lb/sec, or 10 lb/sec (1.4 kg/sec, 2.3 kg/sec, 3.2 kg/sec, or 4.5 kg/sec) by changing the choke tip.

WILLIAMS FIRE & HAZARD CONTROLS' PKW is siliconized Purple K powder with intense colouring, making it perfect for use with this nozzle.

Constructed with hard anodized aluminium alloy, the nozzle weighs approximately 7 lb (3.2 kg). Light in weight yet durable with minimum care and maintenance requirements.

2. Ordering information.

Adjustable Flow HYDRO-CHEM Hand-line Nozzles are available in the following types.

Part No.	Description
17116	HYDRO-CHEM handgun nozzle, adjustable flow 60, 95, 125 gpm (227, 360, 473 Lpm), 1.5 in. (F)NST water inlet, 1.5 in. (F)NST dry chem inlet
17117	HYDRO-CHEM handgun nozzle, adjustable flow 60, 95, 125 gpm (227, 360, 473 Lpm), 1.5 in. (F)NST water inlet, 1 in. (F)NST dry chem inlet
17118	HYDRO-CHEM handgun nozzle, adjustable flow 60, 95, 125 gpm (227, 360, 473 Lpm), 1 in. (F)NST water inlet, 1.5 in. (F)NST dry chem inlet
17119	Hydro-Chem handgun nozzle, adjustable flow 60, 95, 125 gpm (227, 360, 473 Lpm), 1 in. (F)NST water inlet, 1 in. (F)NST dry chem inlet
13895	Choke tip, 3 lb/sec, for HYDRO-CHEM (replacement)
13898	Choke tip, 5 lb/sec, for HYDRO-CHEM (replacement)
13898	Choke tip, 7 lb/sec, for HYDRO-CHEM (replacement)
13900	Choke tip, 7 lb/sec, for HYDRO-CHEM (replacement)
13265	Hose, dry chem, 1.5 in. x 50 ft (38 mm x 15 m), purple, 1.5 in. NST aluminum couplings, double jacket with TPU lined inner jacket
13421	Adapter, 1.25 in. (F) NPSH x 1.5 in. (M) NST for ANSUL 350 lb wheeled unit

Note: The converted metric values in this document are provided for dimensional reference only and do not reflect actual measurement.

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