

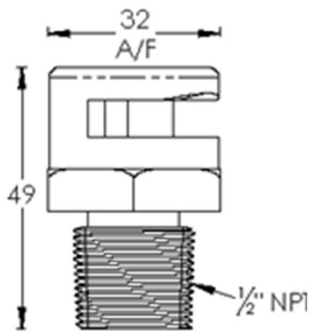


TANK COOLING WATER SPRAY NOZZLE

| Standard Nozzle Range | | | | |
|-----------------------------------|-------------------------------|------------------|---|---|
| K-Factor (Metric) Tol. ± 5% | K-Factor (US) Tol. ± 5% | Thread (Male) | Approval | Brass Part number (w.o. strainer**) |
| 25 | 1,74 | 1/2" NPT |  | D372510N |
| 45 | 3,13 | 1/2" NPT | | D374510N |
| 60 | 4,14 | 1/2" NPT | | D376010N |
| 85 | 5,86 | 1/2" NPT | | D378510N |



| Alternative materials and K-factors (available on request) | | | | | | | |
|--|------------------------|------------------|---|---|--|---|--|
| K-Factor. (Metric) ± 5% | K-Factor. (US) ± 5% | Thread (Male) | Approval | Brass Part number (w.o. strainer**) | Alu.Bronze Part number (w.o. strainer**) | SS 316, St.Steel Part number (w.o. strainer**) | SMO, St.Steel Part number (w.o. strainer**) |
| 7 | 0,48 | 1/2" NPT | No approval | D370710N | D370770N | D370720N | D370709N |
| 25 | 1.74 | 1/2" NPT |  | | D372570N | D372520N | D372509N |
| 29 | 2.02 | 1/2" NPT | | D372910N | D372970N | D372920N | D372909N |
| 45 | 3.13 | 1/2" NPT | | | D374570N | D374520N | D374509N |
| 48 | 3.34 | 1/2" NPT | | D374810N | D374870N | D374820N | D374809N |
| 60 | 4.14 | 1/2" NPT | | | D376070N | D376020N | D376009N |
| 70 | 4.82 | 1/2" NPT | | D377010N | D377070N | D377020N | D377009N |
| 77 | 5.31 | 1/2" NPT | | D377710N | D377770N | D377720N | D377709N |
| 85 | 5.86 | 1/2" NPT | | | D378570N | D378520N | D378509N |



| Recommended working pressure | | |
|------------------------------|-------|-----------|
| Min. | 1 bar | 14,5 PSI |
| Max. | 9 bar | 130,5 PSI |

**)

STRAINER

According to FM standard 2021/2025, the Tankcool nozzle (all K-factors) must be provided with an individual, integral, or main line strainer, as the nozzle waterway is less than 11/32 inch (8,7mm).

NOTE :

When ordering, please specify if the nozzle is required with an inlet strainer fitted ! (strainer is not standard).

TANK COOLING

WATER SPRAY NOZZLE

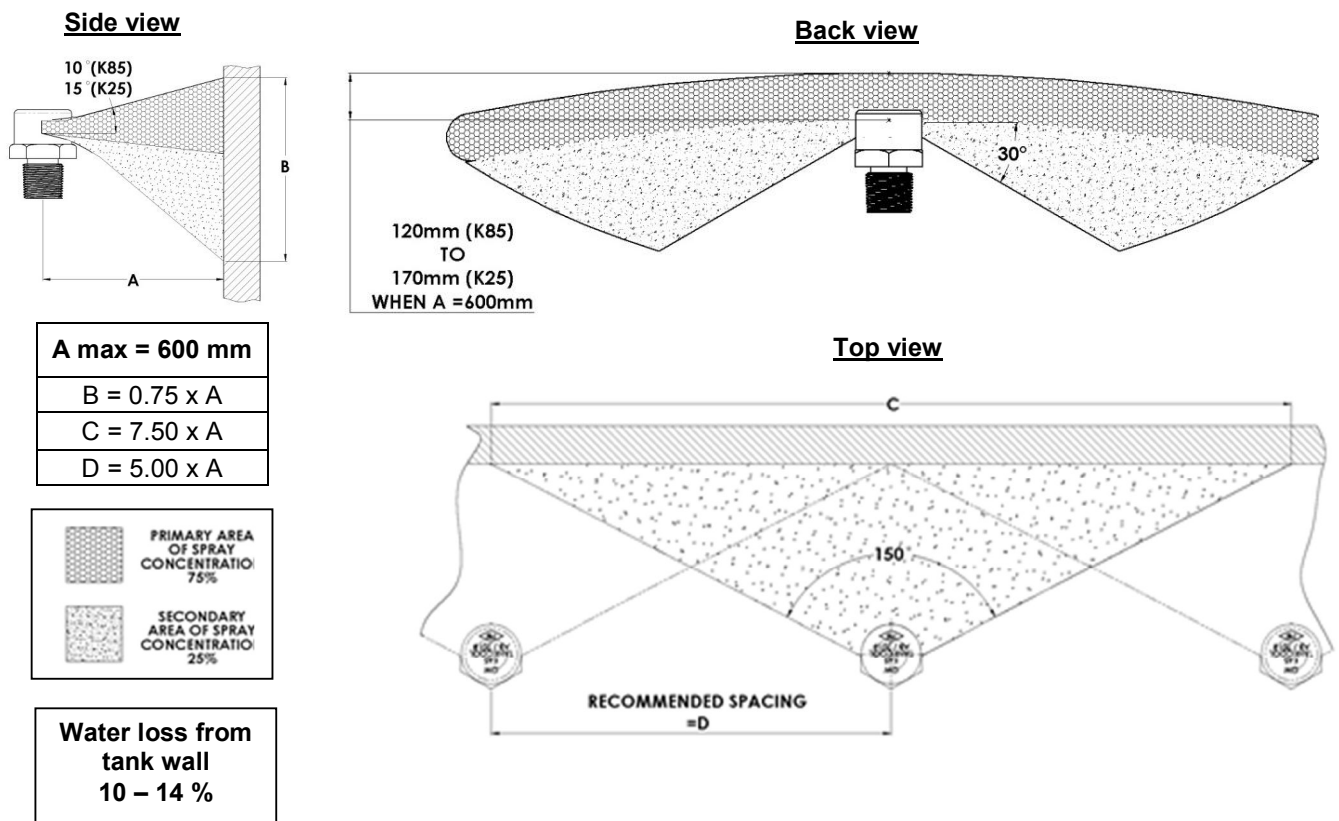
The GW Tankcool nozzle is designed primarily for protection and cooling of fuel storage tank walls. Where possible, nozzles should be connected to the top of water lines, with the nozzles upright. The placement of nozzles surrounding process equipment is an essential feature of a water spray system.

The nozzle configuration should direct water spray onto all exposed surfaces of the equipment to absorb heat from the fire and keep the equipment at a safe temperature.

Dry areas occurring because of incomplete nozzle coverage can result in the development of "hot spots". Overheating of metal at hot spots reduces metal strength which might cause a pressurized vessel or pipeline to rupture, or a structure to collapse.

For system design guidance refer to e.g. NFPA 15 (National Fire Protection Association) or API (American Petroleum Institute).

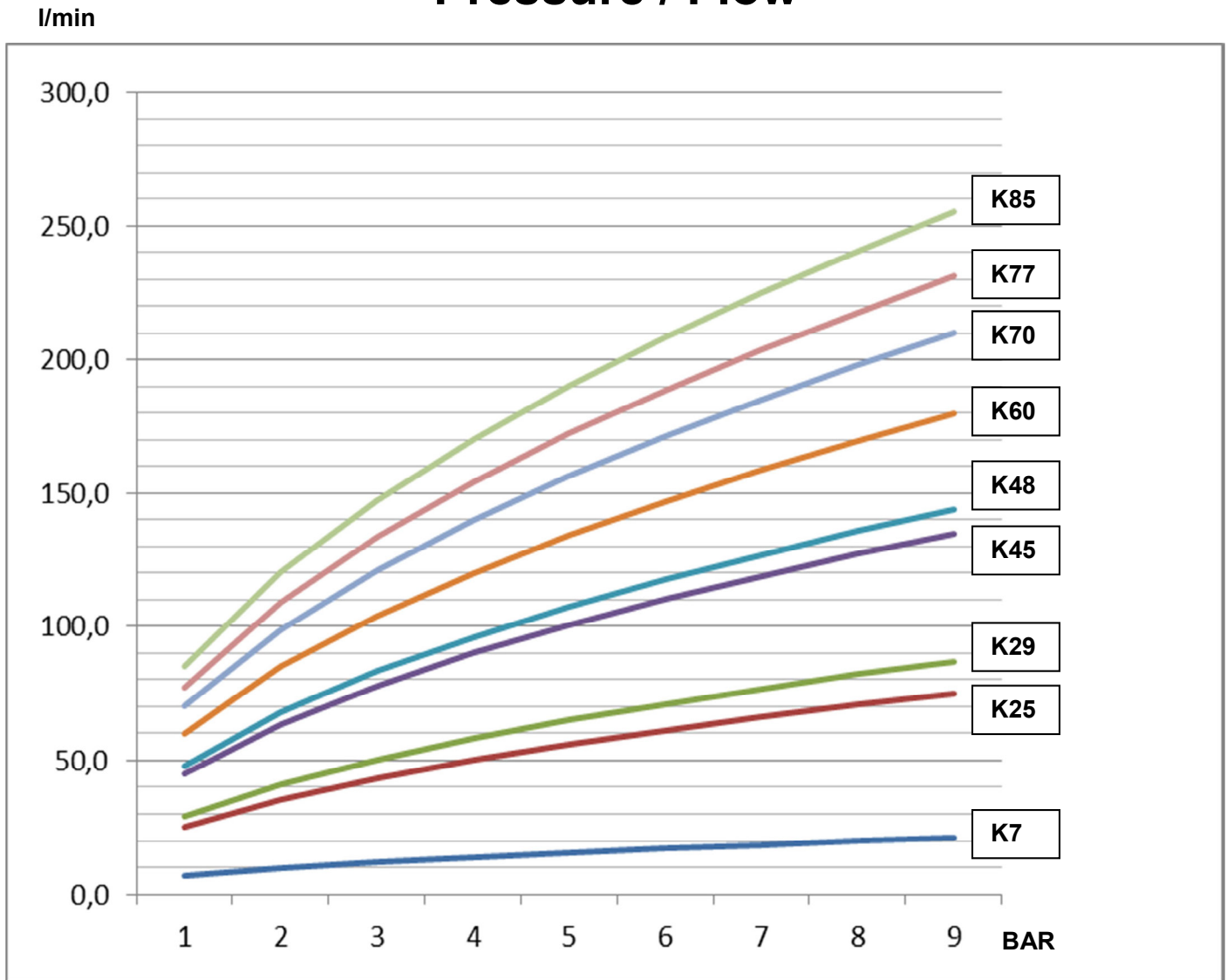
Spray Pattern



TANK COOLING

WATER SPRAY NOZZLE

Pressure / Flow



The pressure / flow relation is calculated based on the formula: $Q = K \times \sqrt{P}$

Q = flow (l/min)

K = nozzle K-factor

P = water pressure at nozzle (Bar)