

Nozzles

SELECT FLOW / PRO JET

Please comply with the following instructions concerning safety and usage in order to guarantee safe, efficient deployment over a long period of time.

This user information must be available to all users and maintenance personnel!

SAFETY INSTRUCTIONS

(applies to all models)

- Never exceed the specified max. working pressure! Doing so could result in serious damage or could put persons at risk. Maximum working pressure: see datasheet for the relevant branch pipe, or contact Rosenbauer.
- The supply lines must be filled slowly in order to ensure that pressure is built up in a controlled manner.
- Open and close the nozzle slowly and in a controlled manner. Opening or closing it too quickly could cause dangerous water hammer.
- When used, a nozzle creates a recoil force which is dependent on the pressure and the water flow. Therefore please always open and close the shutoff slowly.
- Please ensure that the discharge pipe is secured sufficiently in order to prevent uncontrolled hose/ pipe movements.
- Always ensure that the nozzle is pointing in a safe direction before opening the valve.
- Never use the nozzle as a tool - doing so could cause damage which would adversely affect functionality and safety.
- The nozzle is only intended for use with normal water/ conventional foam concentrate. The use of salt water is not recommended.
- The product is only intended for use by trained fire-fighters.
- The nozzle has been factory-adjusted to ensure optimum performance. Do not make any adjustments. Doing so could have a negative effect on performance and safety.
- Check the nozzle for damage before and after each use Perform the checks listed under Maintenance Instructions.
- The coupling must be firmly connected to the branch pipe.
- The nozzle must be closed before the line is filled with fire fighting water or if the branch pipe is coupled to the hose.



Extinguishing fires in electrical systems – Danger of fatal injury!

When using the nozzle in or near electrical systems, fires on live elements may only be extinguished under consideration of the stipulations in VDE 0132. It must be ensured that the power is turned off as quickly as possible! If it cannot be ascertained that nearby electrical systems are free of current when using the O-stream nozzle, the maximum possible safety distance must be maintained, or at least

1 m for voltages up to 1,000 V AC when using the water spray.

EN

SAFETY TESTING / MAINTENANCE INSTRUCTIONS – must be checked and verified before the first startup and after each use! (applies to all models)

- Check if the strainer at the input is free of blockages.
- The nozzle can be dismantled and assembled using conventional tools, provided this is carried out by a person with relevant experience and appropriate knowledge. If screws are removed or tightened during maintenance, they must be glued in.
- Check the tightness of all components!
- After a long period of intensive use seals, the ball valve or the spray ring may need replacing. These wearing parts are included in the spare parts kit and are only to be replaced by trained staff.
- At regular intervals, please check that all bolts and screws are tight.
- Perform a visual check for damage, broken components, missing parts and cracks.
Warning: Branch pipe is not fit for operation - errors must be corrected before the next use.
- All controls must be functional (shutoff valves, stream adjustment, flow adjustment).
Warning: Branch pipe is not fit for operation - errors must be corrected before the next use.
- In order to ensure that your nozzle maintains its high quality over a long period of time please use original ROSENBAUER spare parts only.
- Rinse the nozzle thoroughly with pure water after it has been used with salt water or foam concentrate.
- The nozzle should be drained after use by detaching it from the hose and by repeatedly switching between “OPEN” and “CLOSE”.
- With normal usage, regular cleaning using the “Flush” setting and external cleaning with pure water is sufficient.

OPERATION

the SELECT FLOW series:

RB 99 EN, RB 99 NFPA

RB 100 EN, RB 100D EN, RB 100 NFPA

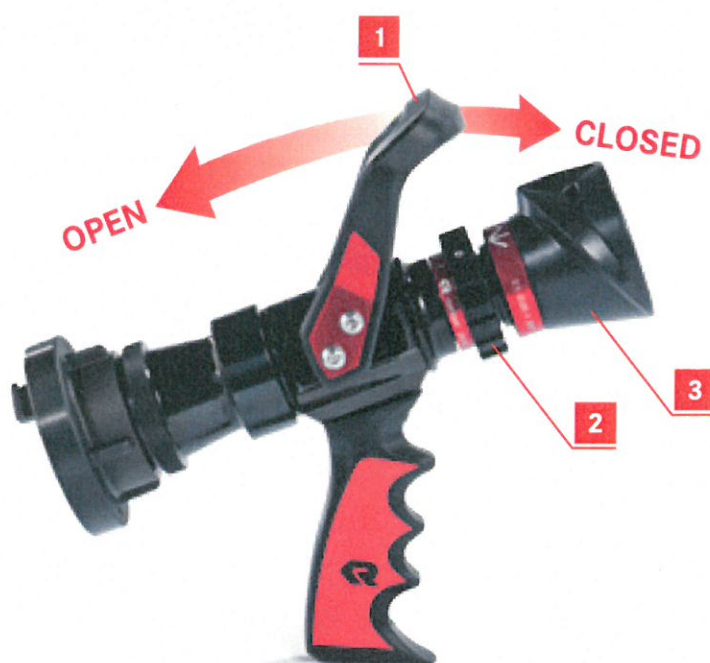
RB 101 EN, RB 101 NFPA

RB 102 NFPA

O-stream nozzles with adjustable stream shape and adjustable constant flow rate.

Working pressure: EN-Models: 6 bar

NFPA-Models: 7 bar



1 Shutoff:

The nozzle is shutoff and opened using the shift lever (1). Open and close it in a slow and controlled manner!

Lever (1) forward toward nozzle → "CLOSED",
lever back toward hose → "OPEN"

2 Flow adjustment and flush option:

The water flow can be adjusted in several stages in accordance with the flow specified. To do this, turn the adjustment ring (2) to the required position. For the EN versions, the position with the highest flow rate is marked by an additional identifier at the adjusting ring (2) (12 o'clock position), the so-called pointer. If the adjusting ring (2) is rotated to the right, the flow rate is reduced; if turned to the left, the flow is increased.

To clean the nozzle, turn the ring (2) to the “Flush” position as far as the stopper. This allows foreign bodies to be removed easily – without having to disassemble the branch pipe → (during operation).

The adjustable positions can be identified and fixed using increments.

3 Stream pattern adjustment:

- For the NFPA versions:

Adjust by turning the lance head (3). The lance head latches in place in the full spray (far right), 45° water spray and 120° water spray (far left) positions. Between these increments, the spray angle can be adjusted continuously. The 45° spray is also displayed with a marking on the lance head → the so-called pointer

- bei NFPA Modellen:

You can continuously adjust the stream pattern from full spray to a 120° spray pattern. Turn the lance head (3) to do so

Rotation to the left → spray angle increases (from full spray to max. ~ 120°)

Rotation to the right → spray angle is reduced (until full spray is reached)

Note: Spray angle are at maximum flow setting at operating pressure.

MODE OF OPERATION:

With the branch pipes from the "SELECT FLOW" series, a focusing full spray or water spray is generated from about 30° to max. 120° (hollow cone). The droplet size produced and its distribution leads to an excellent extinguishing effect, since a significant amount of heat is being absorbed.



Straight stream

- Working from a safe distance with extensive throw range
- High kinetic energy to eliminate ember and fire pockets



Variable fog patterns

- Fine water droplets for rapid heat reduction
- Minimisation of water damage due to smaller volumes of water



Protective shield

- Finest water droplets and wide spray angle to create a large area protective shield
- Protection of fire fighting team against radiant heat

TECHNICAL DATA

SELECT FLOW EN

Model	RB 99 EN SELECT FLOW	RB 100 EN SELECT FLOW	RB 100D EN SELECT FLOW	RB 101 EN SELECT FLOW
Adjustable flow settings in l/min*	17 30 80 130	45 85 130 200	45 85 130 235	130 230 300 400
Max. throwing range*	32 m	36 m	36 m	44 m
Length**	30 cm	30 cm	30 cm	31 cm
Weight**	2 kg	2 kg	2 kg	2.2 kg

* The performance details of the flow quantity and the throw range for the SELECT FLOW RB 99 EN, RB 100 EN, RB100D EN and RB 101 EN nozzles are in accordance with European specifications are provided in reference to an operating pressure of 6 bar.

** For nozzles RB 99 EN, RB 100 EN, RB100D EN and RB 101 EN with coupling Storz C.

SELECT FLOW NFPA

Model	RB 99 NFPA SELECT FLOW	RB 100 NFPA SELECT FLOW	RB 101 NFPA SELECT FLOW	RB 102 NFPA SELECT FLOW
Adjustable flow settings in l/min*	19	50	115	360
	37	100	230	475
	90	150	360	550
	150	230	475	750
Max. throwing range*	39 m	40 m	47 m	57 m
Length**	20 cm	20 cm	23 cm	25 cm
Weight**	1.5 kg	1.5 kg	1.9 kg	3.1 kg

EN

* Working pressure 7 bar

** without coupling

OPERATION

The PRO JET series:

PROJET I and PROJET II

Nozzles with combinable full and/or water spray.

Working pressure: 3.5 bar



1 Full spray shutoff:

Shut off and open the full beam via the bracket lever (1).

Open and close it in a slow and controlled manner!

Lever (1) forward toward nozzle → "CLOSED",

lever (1) backward toward hose → "OPEN"

WARNING: If the lever (1) is in position "CLOSED", the spray can be activated anyway!

2 The water spray activation & beam shape is adjusted using a lance head (2):

The water spray is activated by turning. By further turning, the spray angle can be adjusted.

To clean the nozzle, turn the lance head (2) until it stops at the "flush" position. Foreign objects can be easily removed without having to disassemble the jet → (during operation).

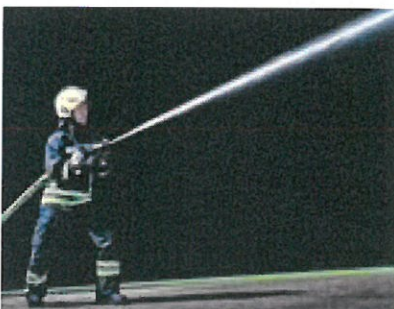
MODE OF OPERATION:

With the branch pipes from the "PRO JET" series, a focusing full spray and/or water spray is generated from about 30° to max. 120° (hollow cone). The droplet size produced and its distribution leads to an excellent extinguishing effect, since a significant amount of heat is being absorbed.



Combination straight stream and variable fog patterns

- Full spray can be operated with lever bracket
- Continuously adjustable water spray via the lance head



Straight stream

- Working from a safe distance with extensive throw range
- High kinetic energy to eliminate ember and fire pockets



Variable fog patterns

- Fine water droplets for rapid heat reduction
- Minimisation of water damage due to smaller volumes of water



Protective shield

- Finest water droplets and wide spray angle to create a large area protective shield
- Protection of fire fighting team against radiant heat

EN

TECHNICAL DATA

PRO JET

Model	PRO JET I	PRO JET II
Adjustable settings in l/min*	ca. 180** ca. 370***	ca. 420** ca. 680***
Max. far point*	34 m	40 m
Length****	30 cm	31 cm
Weight****	2 kg	3 kg

* The performance details of the flow quantity and the throw range are provided in reference to an operating pressure of 3.5 bar at the nozzle.

** for solid jet

*** for combined jet

**** with Storz C or Storz B coupling

SPARE PARTS

Further information on the branch pipes, spare parts list and set numbers can be found at www.rosenbauer.com:

Products / Extinguishing Systems / Nozzles and Monitors / Download.