

Self educting nozzle

Reference : 22126, 22127



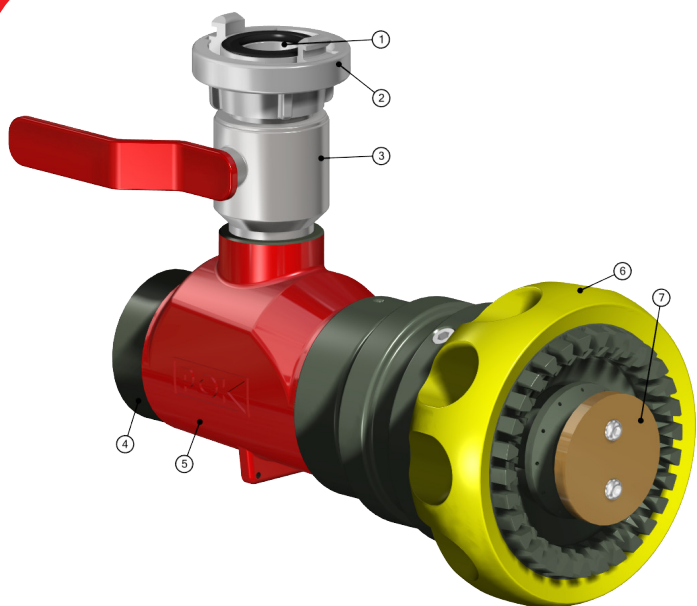
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Please read this manual before using the equipment

POK SA - ZI Les Guignons - 10400 Nogent-sur-Seine - FRANCE
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Presentation



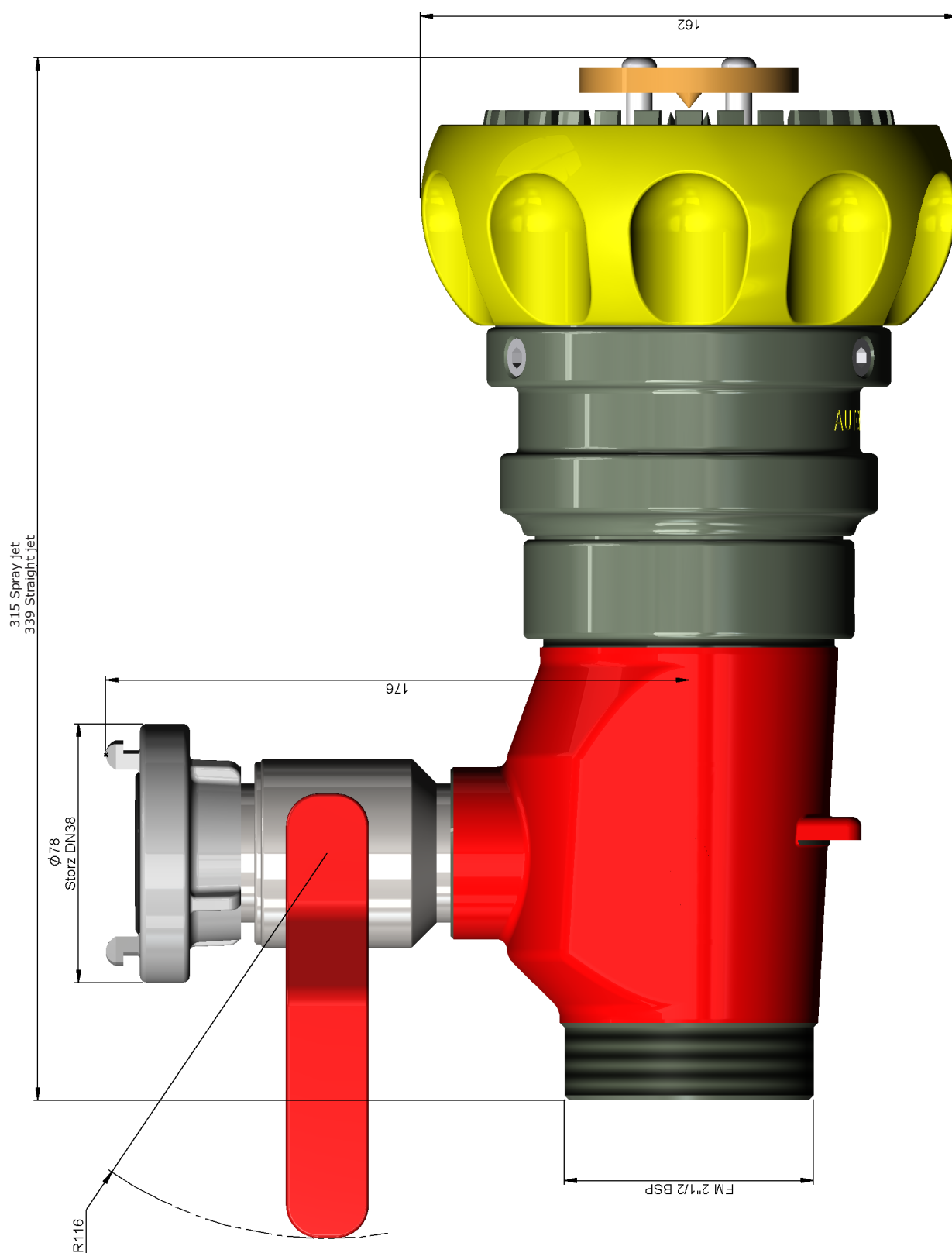
Mark	Description
1	Suction inlet
2	Storz DN38 coupling
3	Suction shutoff (option)
4	Nozzle inlet male thread 2.5"
5	Body
6	Wheel for jet selection
7	Valve

Characteristics	Details
Construction	<ul style="list-style-type: none"> • Body in aluminium alloy • Red and yellow polyester painted • Harcoat anodized aluminium • Screws in stainless steel
Inlet	<ul style="list-style-type: none"> • Nozzle : Male thread 2.5" • Eductor : Storz DN38 coupling
Flow rate	<ul style="list-style-type: none"> • 2000 l/min (530 GPM) or • 3000 l/min (800 GPM) <p>Note : Only one of those flow rates applies, it depends on your order. Configuration made in factory only, further modification are impossible.</p>
Working pressure	7 bar (100 PSI)
Maximum pressure of use	16 bar (230 PSI)
Jet	<ul style="list-style-type: none"> • Straight • Attack (30°) • Spray (110°)
Suction	<p>3% or 6% @ 7 bar (100 PSI)</p> <p>Note : Suction percentage depends on the metering disk, which can be changed easily if necessary. Other percentage available on demand.</p>
Suction hose max. length	<ul style="list-style-type: none"> • Optimal performances : 3m <p>Note : Over 3m suction may not operate properly.</p>
Accessories	<ul style="list-style-type: none"> • Suction pipe (supplied) <p>Note : Usually 3m (may depends on the order).</p> <ul style="list-style-type: none"> • Suction valve (option)

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Overall dimensions

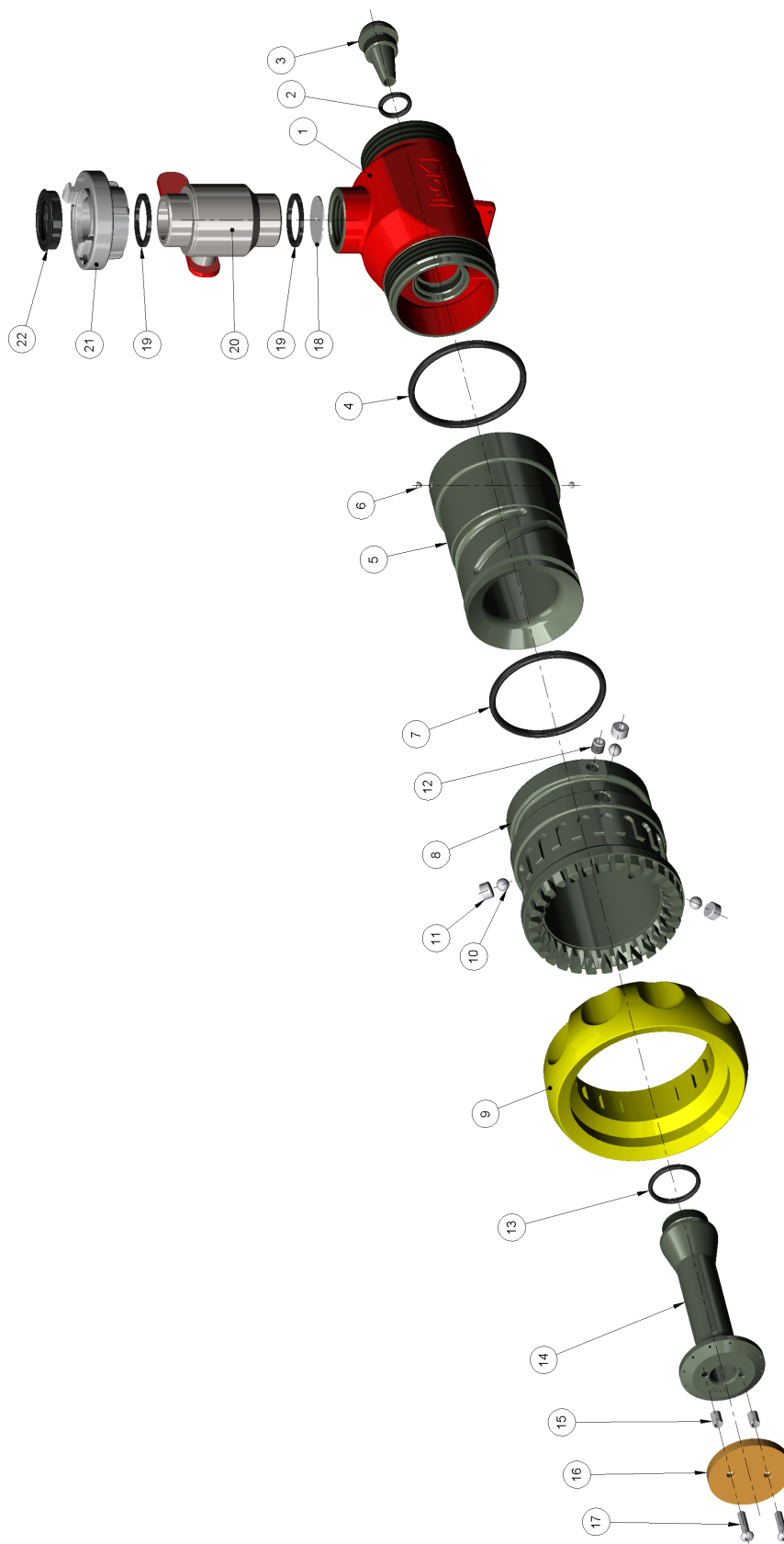


Weight : 5.5 Kg

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Exploded view



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Bill of materials

N°	Qty	Description	Ref
1	1	Body	22032
2	1	Gasket R16	
3	1	Converter	22035
4	1	Gasket R43	
5	1	Bore	22033
6	2	Screw STHC TR M5-5	
7	1	Gasket R42	
8	1	Head ring	29220
9	1	Bumper guard	29221
10	3	Ball Ø10	
11	3	Cap HC 1/4" BSP	
12	1	Screw STHC PL M10 - 10	
13	1	Gasket R25	
14	1	Stem	22036
15	2	Cross-piece	19059
16	1	Deflector	19060
17	2	Screw CBHC M6 - 25	
18	1	Metering device	22037
19	2	Flat gasket 1" 1/4 BSP	
20	1	Ball vlave FM 1" 1/4 BSP / FM 1" 1/4 BSP	
21	1	Storz coupling DN38 FF 1" 1/4 BSP	
22	1	Suction gasket for Storz DN 38 - 1.5"	15210



Warning

Precaution of use :

This nozzle is made to work with a maximum flow rate of 2000 l/min (530 GPM) or 3000 l/min (800 GPM) and an advised pressure of 7 bar (100 PSI). Equipment efficiency is not certain over those values.

The maximum working pressure is 16 bar, reliability is not certain over this value.

Only the staff trained on the equipment and aware of the security rules is allowed to use or do maintenance on the monitor.

It is important to make sure the monitor is properly attached on its stand and that the stand will resist to the reaction force, in case of mobile monitor, make sure the supplied belt is strongly fixed to an anchor point. Ignoring this may cause important damage or be deadly.

(Reaction force : about 130 Kgs for 2000 l/min @ 7 bar and about 200 Kgs for 3000 l/min @ 7 bar at the nozzle outlet).

Never face the jet or target someone, consequences may be deadly.

Please note that using the monitor may cause important damage in the area where the jet is falling, make sure the area is secured before use.

Disassembly and warranty :

Excepted special agreement, the warranty is valid for 1 year.

The bill of materials and exploded view included in this document are not a disassembly guide.

Dismantling the equipment outside POK factory cancel the warranty.

Do not modify the equipment, it may no longer work properly or be dangerous at use.

Only POK SA can repair and guarantee the equipment working well and without danger.

If parts are changed outside POK factory, you must make carry out the service procedure to make sure everything is working well.

POK SA can't be responsible for any damage caused following a disassembly outside its factory, modification or bad use of the equipment.



1/ Introduction :

This nozzle is made to work with a flow rate of 2000 l/min (530GPM) or 3000 l/min (800 GPM) depending on your order. This flow rate is given for a pressure of 7 bar (100 PSI).

A storz DN38 coupling is put on the nozzle in order to connect a suction pipe (supplied). A metering disk is present between the body and the storz coupling, it calibrates the percentage of suction (usually 3% or 6 %, but it may vary depending on your order).

The metering disk can be replaced by removing the Storz coupling DN38. Be careful to put again the gaskets properly.

2/ Installation & use :

- Connect your nozzle on a monitor, make sure it is properly connected and that no parts are missing or damaged.
- Make sure the monitor stand will resist to the reaction force of the nozzle.
- Connect the suction pipe on the nozzle and put the tube in the foam tank.
- When you're sure that the installation is meeting all the security requirements, you can put the nozzle under pressure.

- **Meanwhile the equipment is under pressure please respects the following points :**

- **Do not target someone.**
- **Do not use a vertical angle under 35° or over 90°.**
- **Do not target a point in the same direction than your pump (your stand may not resist and cause important damages, because of reaction force).**

- Rotate the jet adjustment ring to change the jet type :

- Straight.
- Attack (30°).
- Spray (110°).

Do not use the spray if equipment around the nozzle would not resist to important water projection.

- Range (@ 7bar / 100 PSI):

- Model 2000 l/min : Water 50m / Foam 40m.
- Model 3000 l/min : Water 55m / Foam 45m.

The ranges may vary depending on your installation, and wheather conditions.

3/ Limits of use :

- If no suction pipe is connected, water may go out if you use the equipment at a very low pressure.
- If the equipment is working with a suction pipe connected but not to a foam tank, be careful where you put the tube, it will draw in small particles around it.
- If you use the nozzle to make foam, make sure you do not have a flow rate under 1500 l/min (400 GPM), it may not work properly under this value.
- For best hydraulic performances do not use the nozzle over the value quoted below :
 - Flow rate : 2000 LPM / 530 GPM or 3000 LPM / 800 GPM (depends on you model)
 - Pressure : advised 7 bar / 100 PSI
- Please use only the suction pipe supplied with the nozzle.



1/ Cleaning :

After each use please do the following operations :

- Let the nozzle work with clear water.
- Connect the suction pipe and put the tube into clear water to draw water in, in order to clean it up.
- Clean the nozzle (outer faces) with clear water, but without high pressure jet.
- Store the equipment in a dry place.
- Make sure no parts are missing or damaged.

It is important to do these operations to maintain the product working well, emulsifying agent are corrosive products, and letting particles inside may damage gaskets at short term.

2/ Spare parts :

Parts as gaskets may need to be changed more or less often depending on storage and use conditions.

Please contact our sales service in order to be informed on tariffs and conditions for returns or to obtain spare parts.

Use the bill of materials in this document to identify the parts to change.

3/ Put back into service procedure :

If you change parts by your own, please do these steps in order to make sure the equipment is working well. Those points won't make you recover the warranty or make POK responsible for further accident.

- Make sure no parts are missing or damaged.
- Make sure all parts move properly, without problems.
- Connect the nozzle on your monitor.
- Put everything under pressure following the installation & use guide.
- Use low pressure at the beginning, then increase to 12 bar (175 PSI) slowly. During this step, make sure there is no leaking. Let everything move.
- Connect the suction pipe and use the nozzle normally. Make sure it draws in water or foam.
- If no problems are detected you can put back the equipment into service.