

PONSTAR- DMFA type nozzles

DESCRIPTION

To be screwed to the extremity of a branchpipe. Their diffusion jet creates a conical water spray jet. Thanks to the selected angles of the different jets, we obtain a homogeneous cone of diffusion, composed of very small droplets which make the product highly efficient and insures the total safety of the operator. Self-cleaning system.



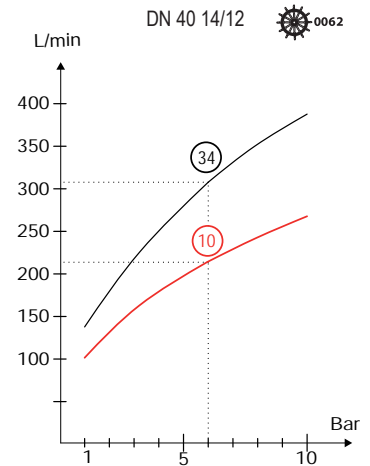
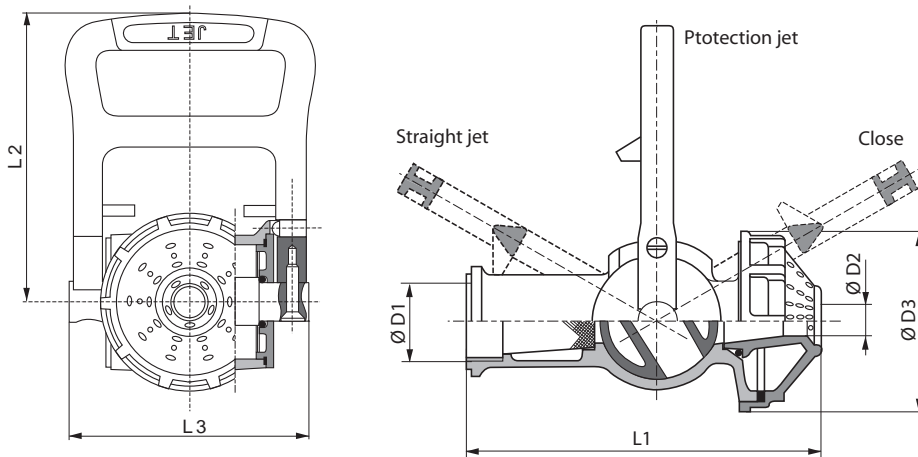
DMFA/HT version available (High voltage nozzle) with two positions : close and diffusion of protection, without straight jet, for fires with electric origin.

STANDARDS

In compliance with : NF EN 15182-3 and NF EN 15182-1+A1 standard.
Certified Merchant Navy n° MED 2014/90/EU*. 2690

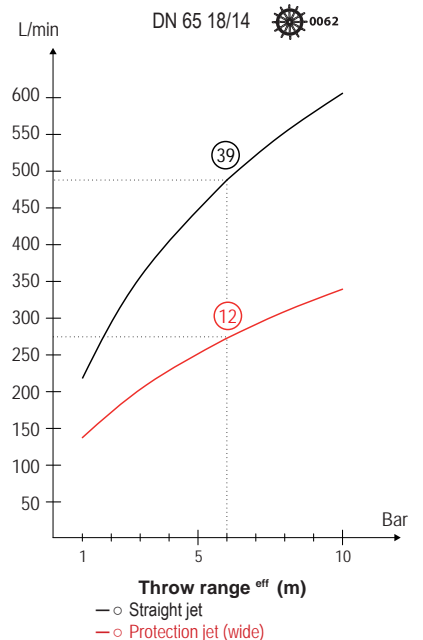
CONSTRUCTION

- Bronze.
- Aluminum alloys of first fusion with heat treatment.



CHARACTERISTICS AND PERFORMANCES

ND	ØD2	Dimensions (mm)						Part numbers		Weight (kg)
		ØD3	L1	L2	L3	ØD1	Alu	Bronze		
20	7/7	-	58	119	93	80	M.24X2	-	3042.100	0,990
40	10/10	-	80	160	131	109	M.36x2	-	3042.103	2,270
40	12/12	-	80	160	131	109	M.36x2	-	3042.104	2,250
40	14/12	-	80	160	131	109	M.36x2	3042.505	3042.105 *	0,870 (alu) 2,245 (bze) *
65	18/14	-	80	176	131	109	M.52x3	3042.507	3042.107 *	0,950 (alu) 2,530 (bze) *
20	7	DMFA/HT	58	119	93	80	M.24x2	-	3044.100	0,990
40	12	DMFA/HT	80	160	131	109	M.36x2	-	3044.103	2,300



		ND 20/7/7	ND 40/10/10	ND 40/12/12	ND 40/14/12 *	ND 65/18/14 *
Flow rate (L/min) ⁽¹⁾	Straight jet	78	163	232	305	485
	Protection jet	98	138	203	210	275
Throw range (m) ⁽¹⁾	Straight jet	22,5	30	31	34	39
	Protection jet	8,5	9	9	10	12

(1) Performances tested at 6 bar - Effective throw range in meters.
Maximum pressure of use 16 bar.

The drawings and diagrams in the present document are for illustration only and do not constitute an offer. We reserve the right to make any modification without former information.

PONSTAR- DMFA type nozzles

OPERATION ADVICES

- The instructions of use have to be known and followed.
- This nozzles have to be operated by a person aware of the different positions, the recoil force and the force of impact of the straight jet.
- Always use this nozzle at the advised pressures and follow the instructions and operation rules for fire-fighters.
- Never use the PONSTAR nozzle with straight jet on electrical fire unless it's a DMFA/HT.
- Visser le diffuseur PONSTAR sur un fût de lance souche symétrique de diamètre nominal approprié.
- Brancher le fût de lance à l'extrémité d'un flexible d'alimentation de dimension appropriée.
- Vérifier que le diffuseur est fermé : la poignée est positionnée vers l'avant.
- Slowly open the nozzle pour atteindre les positions de jet :
 - Diffusion en cône plein : poignée verticale
 - Jet droit : poignée vers l'arrière

Le débit maximum est atteint dès que le diffuseur est sur la position diffusion.

FUNCTIONING

- Coupling : Fixed
- Prehension device : None
- Open / close device : Cylindrical ball valve
- Flow rates adjustment : None
- Jet / diffusion system : Par poignée de manoeuvre
- Diffusion :



PHYSICAL PERFORMANCES

	DN40 14/12	DN65 18/14
- Frost sensibility :	- 15 °C	- 15 °C
- Heat sensibility :	55 °C	55 °C
- None obstruction test :	14 mm	18 mm
- Burst pressure :	60 bar	60 bar

PREVENTIVE MAINTENANCE

For reasons of safety and longevity, the PONSTAR nozzle must receive a proper maintenance against the normal or exceptional wear (in particular through preventive maintenance) to guarantee the safety of the users thanks to the good functioning of all parts of the nozzle.

After each intervention, in particular with aggressive liquids (see water, foam, etc...)

- Rinse the nozzle with clear water (inside and outside),
- Control the main functions : opening, diffusion and closure,
- In case of obstruction of the filter, put the nozzle in the straight jet position during a few minutes.

CORRECTIVE MAINTENANCE

The operating handle (Rep.1) is damaged :

- Unscrew the two screws (Rep.1.2)
- Mount the new handle with the screws (Rep.1.2) : check la présence du système de positionnement à bille (Rep.1.1).

Le système de positionnement à bille (Rep.1.1) est endommagé :

- Remplacer par une nouvelle butée, visser jusqu'à ce que la bille se positionne convenablement dans l'encoche du corps du robinet sans forcer.

The diffusion part (Rep.2) is obstructed :


- Unscrew the diffusion part with a wrench.
- Get the obstructing body off the nozzle, pushing it out of the inlet thread,
- Screw the diffusion part insuring that the gaskets (Rep.2.1 et 2.2) are in correct position.

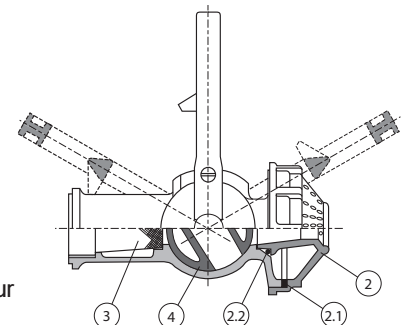
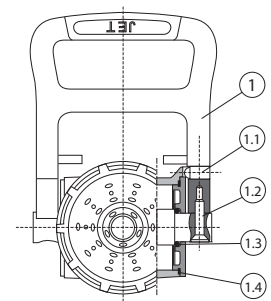
The diffusion part (Rep.2) is damaged or leaks :

- Unscrew the diffusion part with a wrench.
- Check the gaskets (Rep.2.1 et 2.2) and change them in case of leak,
- Change the diffusion part (Rep.2) if it is damaged.

The opening/closure nozzle leaks in close position :

- Check that no obstructing body is blocked into the ball valve (Rep.4),
- Change les bagues toriques (Rep.1.3) des tourillons,
- Changer le joint d'étanchéité du chapeau (Rep.1.4).

 Ne jamais remplacer le tournant cylindrique (Rep.4), celui-ci étant appairé avec le corps du diffuseur pour garantir une parfaite étanchéité.



NOMENCLATURE OF THE COMPONENTS AND SPARE PARTS

Rep.	Qty	Designation	ND 20	ND 40/65	Material	Rep.	Qty	Designation	ND 20	ND 40/65	Material
1	1	Plastic operating handle	-	-	alu	2	1	Diffusion part	-	-	Alu/Bze
1.1	1	Système de positionnement à billes	-	-	inox	2.1	1	Diffusion part gasket *	-	-	NBR
1.2	2	FHC screw	M.5 x 15	M6 x 25	inox	2.2	1	Bague pomme de diffusion *	R. 11	R. 18	NBR
1.3	2	Bague de tourillon *	R. 10	R. 14	NBR						
1.4	1	joint de chapeau	-	-	bze	* Kit de réparation (comprend les éléments avec *)		4089.121	4089.141		