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10200 FONTAINE

FIXED MICROTOR 1000 l/min at 6 bar

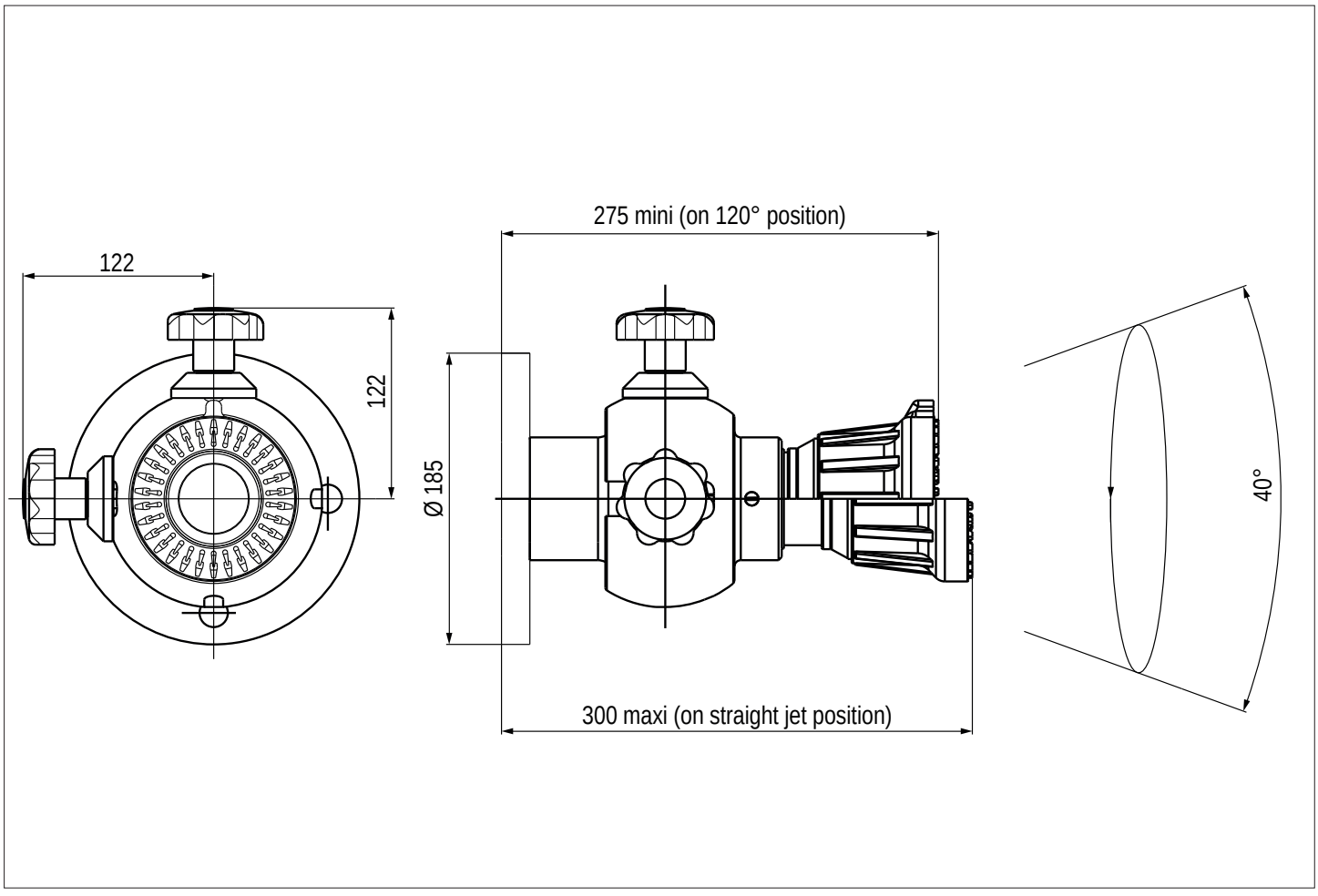
DESCRIPTION

Fixed Monitor, built as followed :

- Flanged inlet PN16 DN65.
- A patented orientation device, with a total orientation angle of 40°.
- Locking on position device.
- Integrated nozzle TURBOPONS 1000 with a double raw of fixed teeth and with fixed flow rate 1000 l/min at 6 bar.
- Patterns are adjustable every 30° from straight jet to diffusion of protection of 120° angle.

CONSTRUCTION

Flange : Aluminum alloys of first fusion with heat treatment.
Body : Aluminum alloys protected against corrosion by hard black anodization.
Locking device in Brass and Polyamide.
Diffusion head in synthetic material.



CHARACTERISTICS

Type	Inlet	Outlet	Part number	Weight (kg)
Fixed **MICROTOR**	Flange PN16 DN65	Fixed **TURBOPONS** 1000 nozzle	**3467.5FPN65**	5,5

INSTRUCTIONS OF USE

509903.77 - n° 41/140301A (A)

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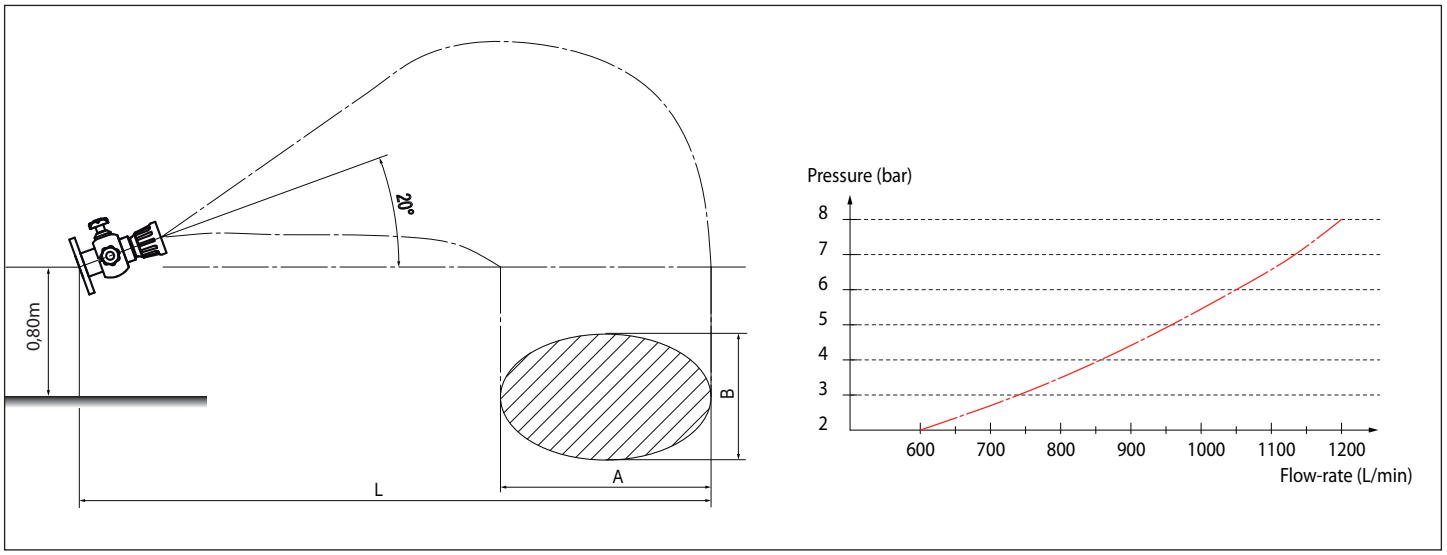
PERFORMANCES

Angles of clearance by kneecap of 40 ° (± 20 °).
Hydraulic performances, Monitor tilted to 20 ° compared with the horizontal.

Pressure (bar)	Straight jet	30° Diffusion			60° Diffusion			90° Diffusion			120° Diffusion		
	L	L	A	B	L	A	B	L	A	B	L	A	B
2	18	13	3	3,5	7	5	6	6	4	6	4	3	9
3	24	14	4	4	9	6	5	8	6	6	5	4	9
4	34	16	5	5	11	8	5	8	5	5	5	4	8
5	38	18	6	3,5	12	10	5	10	5	5	6	5	8
6	41	21	8	3	16	13	5	11	4,5	4,5	6	5	7
7	43	22	10	3	18	14	5,5	13	4	4	7	5	6
8	47	23	11	3	20	14	5,5	15	3,5	3,5	7	5	6

Length in meters.

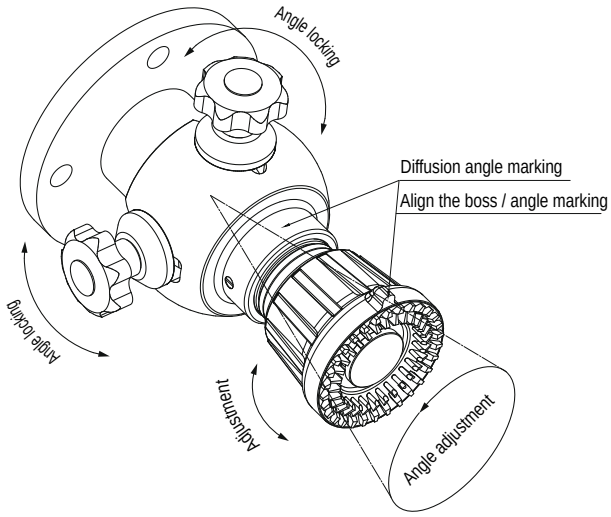


CAUTION

Before use, check the good conditions of the package to insure that the product did not suffer any damage during transport.

SAFETY

- The instructions of use have to be known and followed by the end users.
- The end users have to receive a proper training.
- Do not use the MICROTOR in values of flow rate and pressure superior to those indicated on the product.



BEFORE EACH USE, CHECK

- There are no missing parts or damaged ones.
- The functionalities of the monitor.

USE

- Unscrew the two star knobs.
- Move the nozzle in the chosen direction.
- Tighten the two star knobs.
- Adjust the pattern, by a rotational motion (pattern adjustment positioned in front of the right index).

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MAINTENANCE

Check :

- The good general condition of the monitor and its components.
- That the marking is still visible.
- That the pattern adjustment is correctly positioned in front of the right index.
- The good condition of the star knobs.
- The movement of the head in any direction, and grease the spherical part (Rep. 10).
- That nothing is stuck in the monitor.

Nota : the frequency of these controls have to be adapted with the environmental conditions (inside or outside the buildings, climatic conditions, corrosive atmospheres ....).

CORRECTIVE MAINTENANCE

(1) The pattern selector does not turn :

- Unscrew the guiding bolt (Rep.1) and clean it.
- Unscrew the indexing bolt (Rep 5) and clean it. Do not lose the spring (Rep 4) nor the ball (Rep 3).
- Pull off the pattern selector (Rep 2) and clean the inside and the threads of the guiding bolts (Rep 5 and Rep 1).
- Clean the 2 gaskets (Rep 8) or change them if damaged.
- Lubricate the 2 gaskets (Rep 2) and the inside of the pattern selector (Rep 2).
- Push further the pattern selector (Rep 2) to the stop. Twist it to align the embossed position to the the 120° diffusion marked on the body (Rep 6).
- Align until the inlet of the bolt (Rep 1) is correctly aligned with the guiding ramp of the body (Rep 7).
- Tighten the bolt (Rep 1), glue it and unscrew it of half a turn.
- Align the inlet of the ball of the ramp body (Rep 7) with the second inlet of the pattern selector (Rep 2).
- Screw the indexing bolt kit (Rep 5), spring (Rep 4) and ball (Rep 3) together and glue.
- When tighten to the end, unscrew of half a turn.
- Control the good idexing and the right angle position of the pattern selector (Rep 2).

(2) The angle adjustment knee-cap is blocked or hard to operate :

- Pull off the pattern selector (cf (1)).
- Unscrew the 2 bolts (Rep 1) and clean them.
- Untighten the 2 star knobs (Rep 12) to the maximum.
- Pull off the the knee-cap (Rep 6) twisting it, the clean the inside and the 2 threads of the guiding bolts (Rep 1).
- Clean the gasket (Rep 9) or replace it if damaged.
- Clean the spherical part of the knee-cap device (Rep 10).
- Control that nothing is blocking the movement between the inside part of the knee-cap body (rep 10) and the ramp body (Rep 7).
- Slightly lubricate the spherical part of the knee-cap body (Rep 10), the gasket (Rep 9) and the inside of the knee-cap (Rep 6).
- Push further the knee-cap (Rep 6) till the stop.
- Screw to the maximum the 2 guiding bolts (Rep 1), glue then unscrew of half a turn.
- Mount the pattern selector (cf (1)).

(3) Damaged star knob:

- Pull off the protection cap (Rep 11) with a screwdriver.
- Unscrew the bolt (Rep 13).
- Unscrew the star knob (Rep 12).
- Clean the thread of the rod (Rep 15) then lubricate.
- Mount the kit with a new star knob.

Example of products to use for the maintenance:

- Lubricate: LOCTITE 8106.
- Glue : LOCTITE 225.
- Clean : LOCTITE 7063.

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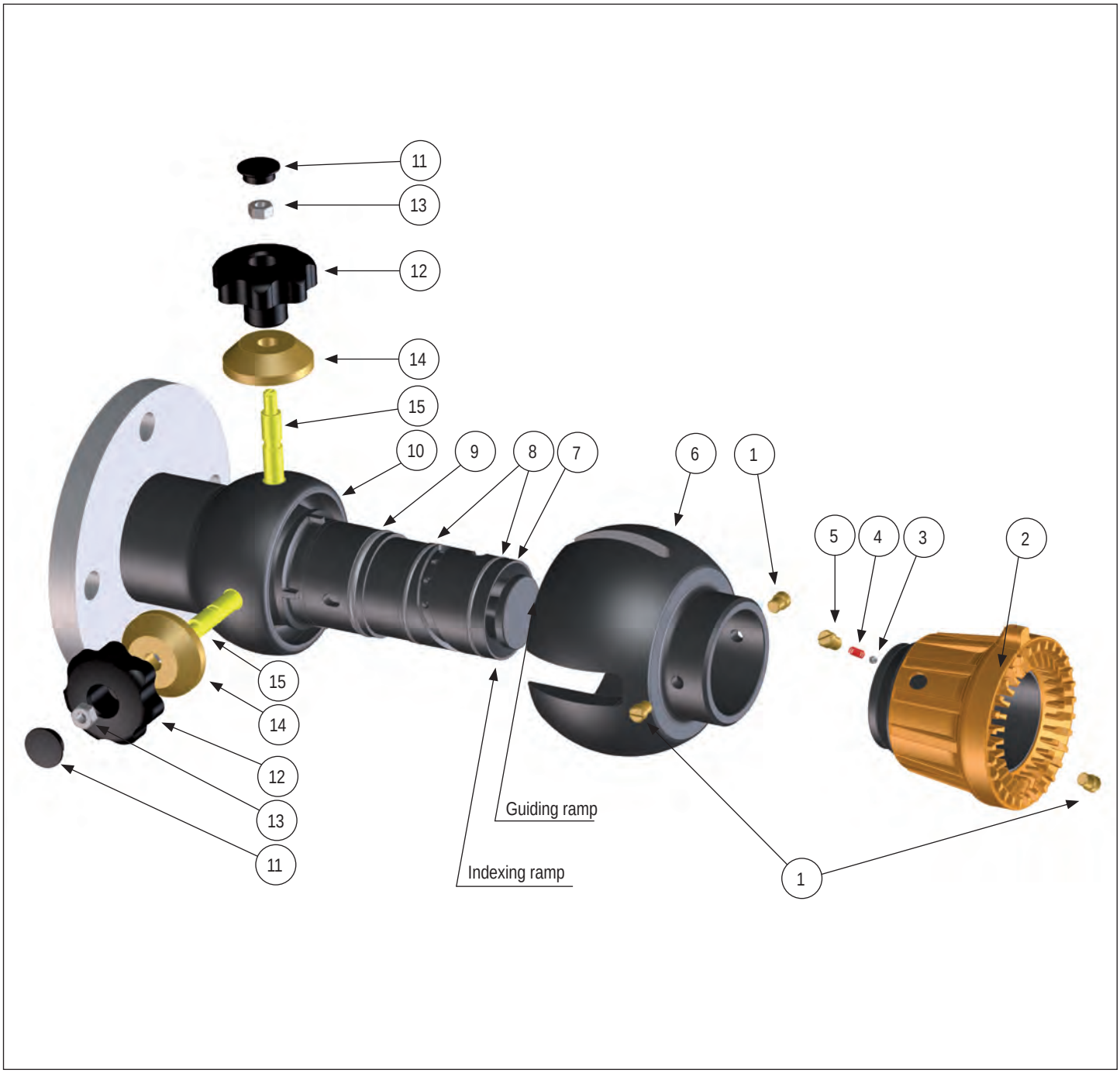

LIST OF THE COMPONENTS AND SPARE PARTS

Rep.	Qty	Designation	Material
1	3	Guiding bolt	Bronze
2	1	Pattern selector	Anodized aluminum + NBR
3	1	Ball 5	Stainless steel
4	1	Indexing spring	Stainless steel
5	1	Indexing bolt	Bronze
6	1	Angle adjustment knee-cap	Anodized alu
7	1	Ramp body*	Anodized alu

Rep.	Qty	Designation	Material
8	2	I 59 x 2.5 ring	Rubber
9	1	R32 ring	Rubber
10	1	Bodies*	Anodized alu
11 - 12	2	Cap and star knob	Plastic / Stainless steel
13	2	M8 Stop bolt	Stainless steel
14	2	Tightening shoe	Brass
15	2	Guiding axis*	Stainless steel

pieces marked with * are not supplied as spare parts.