PA	EQUIPAGGIAMENTI TECNICI LAVAGGIO	TESTINA AUTOMOVENTE A42-FR2 *SELF ROTATING CLEANING HEAD* 25.5150.XX	I / GB	4 / 19
			12.9419.00	25/01/10

SPECIFICHE TECNICHE – *SPECIFICATIONS*

– PRESSIONE NOMINALE *RATED PRESSURE*	40÷140 bar – 4÷14 MPa (580÷2000 PSI)
– PRESSIONE CONSENTITA *PERMISSIBLE PRESSURE*	160 bar – 16 MPa (2300 PSI)
– PORTATA *FLOW RATE*	15÷60 l/min (4÷16 GPM)
– TEMPERATURA MASSIMA ACQUA *MAX WORKING TEMPERATURE*	0–90°C (32–195°F)
– PESO *WEIGHT*	3.07 Kg (108.3 oz)
– FREQUENZA ROTAZIONE ASSE PRINCIPALE *MAIN AXIS ROTATING SPEED*	180÷260 giri/min (RPM)
– ATTACCO ALIMENTAZIONE ACQUA *INLET CONNECTION SIZE*	1/2 Gas
– ATTACCO UGELLI N°3 (UGELLI NON FORNITI) *N°3 NOZZLE CONNECTIONS (NOZZLES NOT SUPPLIED)*	1/4 NPT
– CADUTA DI PRESSIONE IN FUNZIONE DELLA PORTATA *LOSS OF PRESSURE IN RELATION TO FLOW*	~10 bar – 1 MPa

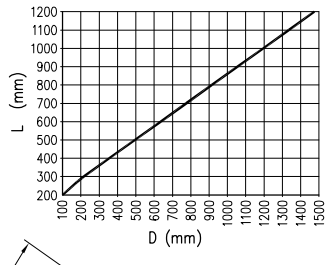
TESTINA AUTOMOVENTE

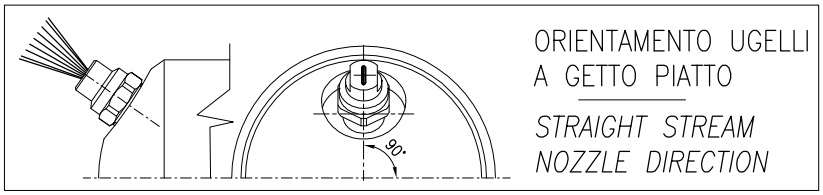
- Portata ridotta, alta pressione, elevata forza d'impatto.
- Velocità di rotazione indipendente dalla temperatura dell'acqua.
- Costruzione in acciaio inox e alluminio anticorodal anodizzato.
- Guarnizioni in viton e PTFE.
- Idonea per l'impiego nel settore alimentare.

SELF ROTATING CLEANING HEAD

- *Reduced flow, high pressure, strong cleaning impact.*
- *Rotating speed indipendent from water temperature.*
- *Structure in SST and anodised anticorrosive aluminium.*
- *Seals in viton and PTFE.*
- *Designed for the food industry.*

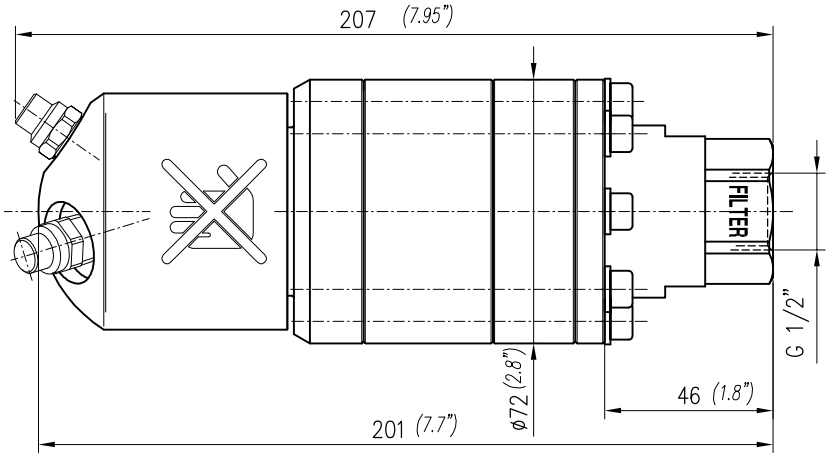
MISURE D'INGOMBRO – *OVERALL DIMENSIONS*





ORIENTAMENTO UGELLI A GETTO PIATTO

STRAIGHT STREAM NOZZLE DIRECTION



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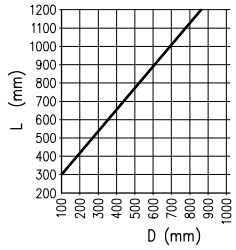
TESTINA AUTOMOVENTE

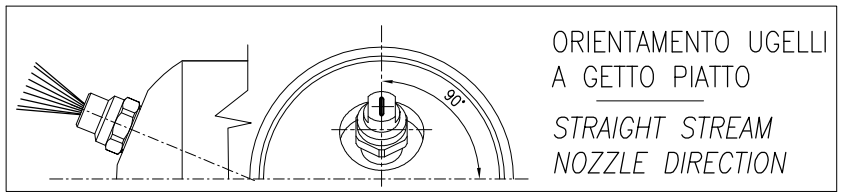
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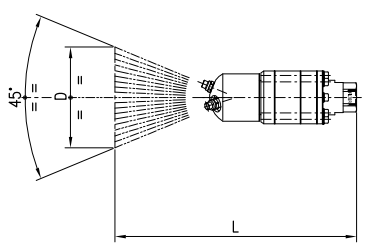
SELF ROTATING CLEANING HEAD

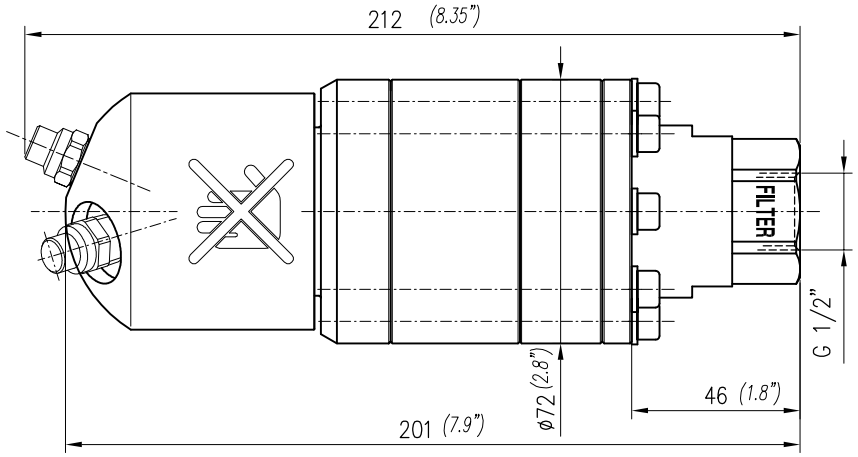
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CAUTION!

This cleaning head must be held and power supplied by an inflexible tube which prevents swinging.
The lower part of the tank cleaning head rotates thanks to a turbine + epicycloids reduction gear system which generates a high torque. Avoid any rotation locking caused by foreign matters.

USE

This cleaning head is designed to be used with water up to 90º C - 194ºF, mixed with detergents or disinfectants of general use. Before using specific liquids (high viscosity, very aggressive chemicals or else) consult our technical department.
Make sure the equipment is always used within the limits (Pressure, Temperature, Voltage) as specified in this manual.

INSTALLATION PROCEDURE

In order to avoid bodily injuries and damages to property, the cleaning head must always be connected to a pressure circuit, normally fed by a piston pump, pressure washer or similar equipment, provided with all necessary safety and control features (safety valve, pressure regulator etc..) requested by law.
ATTENTION: the installation of the TANK CLEANER on the feed line must be carried out SOLELY using the special key (Es 36mm). Avoid tightening manually the TANK CLEANER by grasping the nozzles bowl (pos. 29 on the exploded view) in wich could lead to rupture of the internal gears.
For the connection make sure that a flexible hose with correct capacity and resistance is used, avoiding sharp bends and variation of flow direction in order to reduce pressure drop.
The tank cleaning head must be firmly secured to a suitable support.

CHOICE OF NOZZLES

The nozzles for high pressure washing must be adequate to operating flow rate and pressure (see CHART 1 Nozzle sizes), bearing in mind that the Pressure value to be taken into consideration in the choice is obtained by subtracting from the pump pressure the Pressure Drop determined by the delivery line and the HEAD itself. The latter value can be obtained from the D2 chart given in this manual (Pressure drops).

WORKING AND REGULATION

The rotation of the CLEANING HEAD is operated by a hydrokinetic unit consisting of a turbine driven by injectors and an epicycloidal reduction gear, using the same water that will do the washing.
The rotation frequency can be adjusted, within the values expressed in the Technical Specifications, by varying the Injecting Disc (pos.7 or pos. 6 for A42R in the Exploded View) of the hydrokinetic unit, and is always directly proportional to the Flow Rate value, as shown in the D2 chart given in this manual.
Changes in the pressure (at a constant Flow Rate) or the water temperature do not alter the value of the rotation Frequency (A42R); for the other models, namely A42FR, A42FR2, A43FR2,A44FR2 see D2 chart.

FILTRATION

The fluid sent from the system to the cleaning head has to be filtered in order to prevent the entrance of any body matter due to bad functioning which leads to frequent maintenance.
*The degree of filtration recommended is at least **300 micron**.*
The cleaning head is equipped with a 700 micron filter which has a mere safety function, which we recommend to clean every 100÷300 hours.
If broken, dismantle the cleaning head, wash any residue off the inside and replace with a new filter (A42R).

MAINTENANCE

After a normal daily usage, wash the internal part of the head only with water minus any additives.
After 100 hours of labour, check the conditions of the internal parts (gears, bearings, dynamic seals).
The use of non compatible products with the OR seals in Viton (dynamic seals) can cause swelling and rapid deterioration of these parts. Check the compatibility of the OR with the liquids used and, if not compatible, contact our TECHNICAL OFFICE.
*Check the internal parts every 300÷400 hours of labour in order to verify any premature wear out of the internal parts. It is advisable to replace the dynamic seals (A42R: pos. 34-22; A42R2: pos. 35-23; A42FR , A43FR and A44FR2: pos. 23), verifying precautionary that the sliding surface are in good conditions, **replace if worn out.***
*Also check the conditions of the satellites, bearings, bushings, gears, **replace if damaged.***
Use only original 'PA spare parts.
If exposed to freezing temperatures, make sure that the head is completely emptied after use in order to prevent freeze up.
*Lubrificate with **GREASE RESISTANT TO WATER, PREFERABLY TEFLON GREASE code: 14.6550.00** .*

SAFETY INFORMATION

- ***Improper use of high pressure jets can be very dangerous***
- ***Never point the jets towards people or electrical appliances***
- ***Make sure that the pumping system is equipped with suitable safety devices***
- ***Original PA parts only must be used for repair and servicing***
- ***High pressure pipes and connections are very important to the general safety of the equipment. Be sure to use only components correctly sized and guaranteed by the manufacturer.***