



Bolondi
Cleaning Heads

CATALOGO
CATALOGUE

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SERIE FV

FV SERIES

TESTINE AUTOROTANTI
LAVAGGIO VOLUMETRICO

SELFSPINNING HEADS
VOLUMETRIC WASHING

TESTINE DI LAVAGGIO

Disponibili in due versioni: FV020 (Lenta) e FV025 (Veloce)

CLEANING HEADS

Available in two versions: FV020 (Slow) and FV025 (Speed)



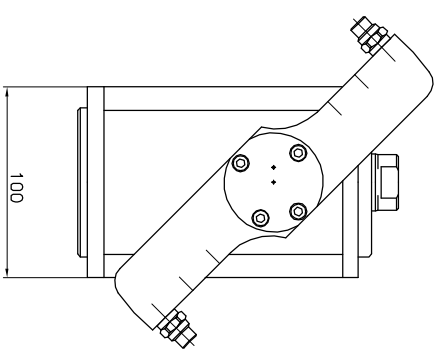
AQUAMOTOR

È un sistema di movimento autorotante per testine di lavaggio la cui velocità di rotazione dipende dai seguenti fattori: portata, posizione degli ugelli, viscosità dell'olio.

It's a selfspinning device for cleaning heads with spinning speed depending on: water flow, nozzle position, oil viscosity.

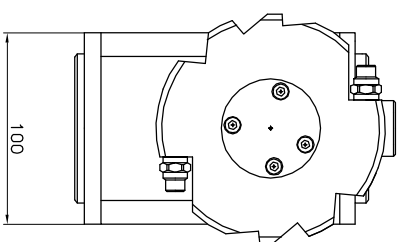
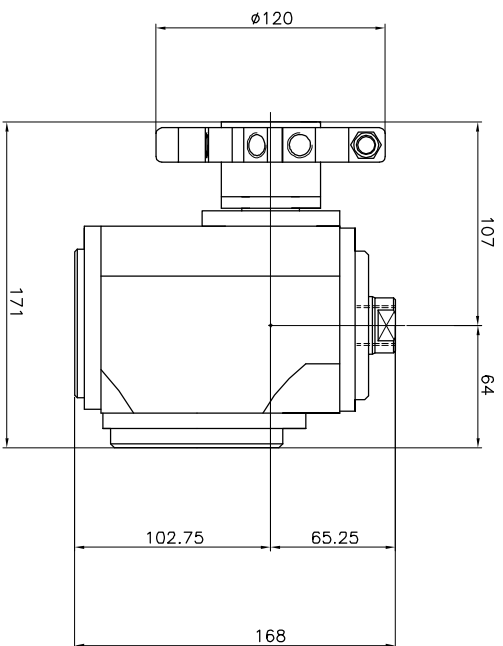


rOtojet

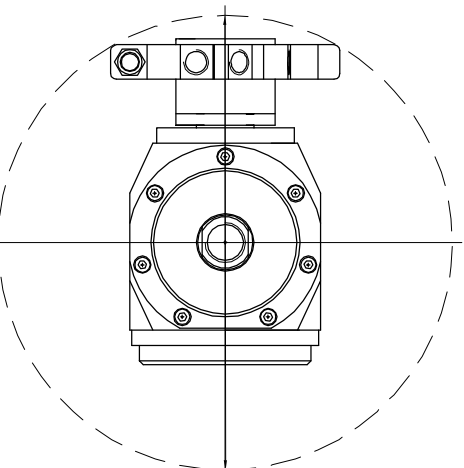


TECHNICAL DATA – 200 BAR VERSION	
OPERATING FLOW RANGE	8 – 200 L/min
OPERATING PRESSURE RANGE	8 – 200 bar
MAX. OPERATING TEMPERATURE	90 °C
WASHING CYCLE TIME	2'-12"
WATER INLET	1/2" G
NOZZLES POSITIONS	2 – 4
NOZZLES THREAD	1/4" NPT
O-RING	NBR – EPDM
LUBRICANT	SILICON OIL VISCOSITY 20-100-350-5000
MATERIAL	
INOX AISI 316	WEIGHT 10,5KG
ALUMINIUM	WEIGHT 5,5KG

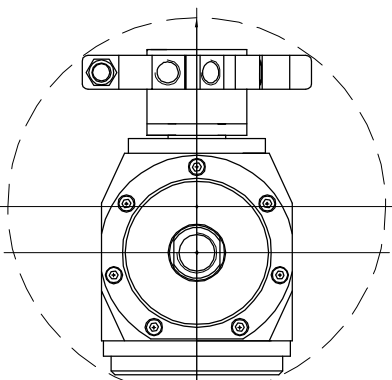
RUCOSITA' (UNI 4600)									
MODIFICA	1	2	3	4	5				
FOGLIO	XXXX								
DATA	XX.XX.XX								
TOLLERANZE GENERALI classe m UNI-EN 22768/1									
0 ÷ 6	6 ÷ 30	30 ÷ 120	120 ÷ 400	400 ÷ 1000	1000 ÷ 2000				
± 0.1	± 0.2	± 0.3	± 0.5	± 0.8	± 1.2				
SGROSS. 3.2/									
▽ = ∇									
FINITURA									
∇∇ = ∇	1.6/								
MATERIALE:									
RETTIFICA									
∇∇∇ = ∇	0.8/								
DESCRIZIONE: FV020 DISEGNO DI APPLICAZIONE						CODICE:			
FV020 APPLICATION DRAWING						FV020			



FORO DI PASSAGGIO MINIMO IN ASSE Ø238
MIN. CENTER LINE THROUGH HOLE Ø238



FORO DI PASSAGGIO MINIMO MANUALEØ198
MIN.MANUAL THROUGH HOLE Ø198



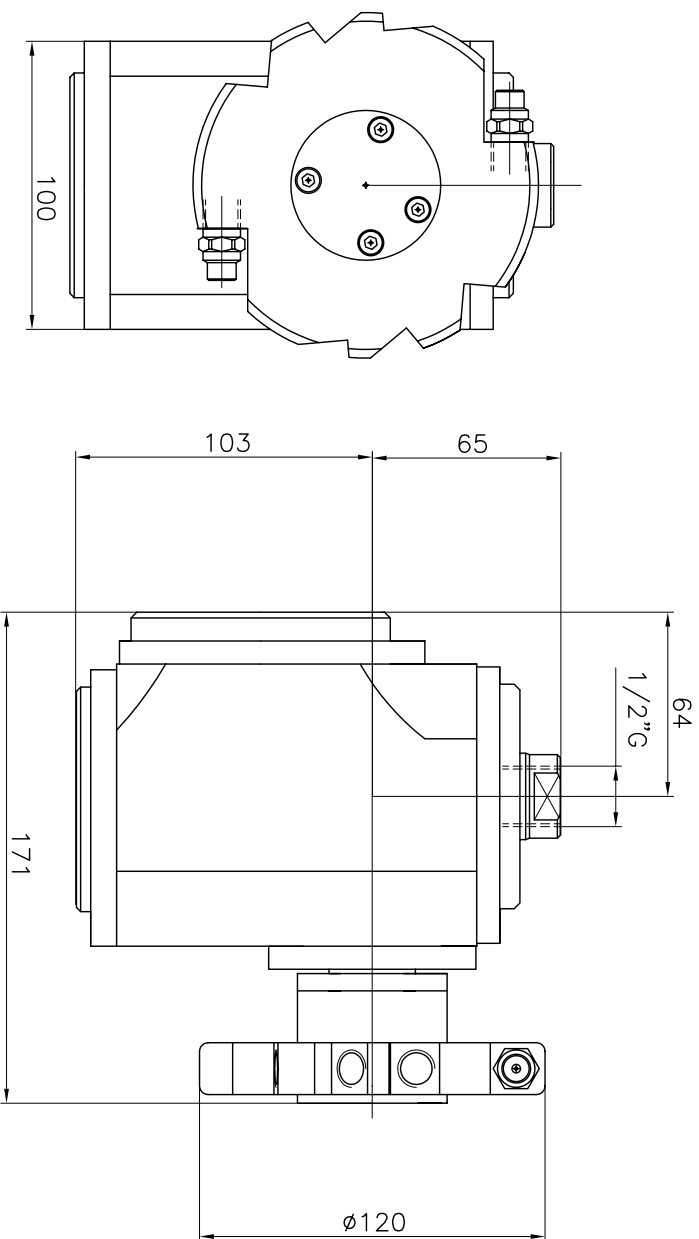
TECHNICAL DATA – 200 BAR VERSION

OPERATING FLOW RANGE	8 – 200 L/min
OPERATING PRESSURE RANGE	8 – 200 bar
MAX OPERATING TEMPERATURE	90 °C
WASHING CYCLE TIME	2'-12'
WATER INLET	1/2" G
NOZZLES POSITIONS	2 – 4
NOZZLES THREAD	1/4"NPT
O-RING	NBR – EPDM
LUBRICANT	SILICON OIL VISCOSITY 20–100–350–5000
MATERIAL	
INOX AISI 316	WEIGHT 10.5KG
ALUMINIUM	WEIGHT 5.5KG

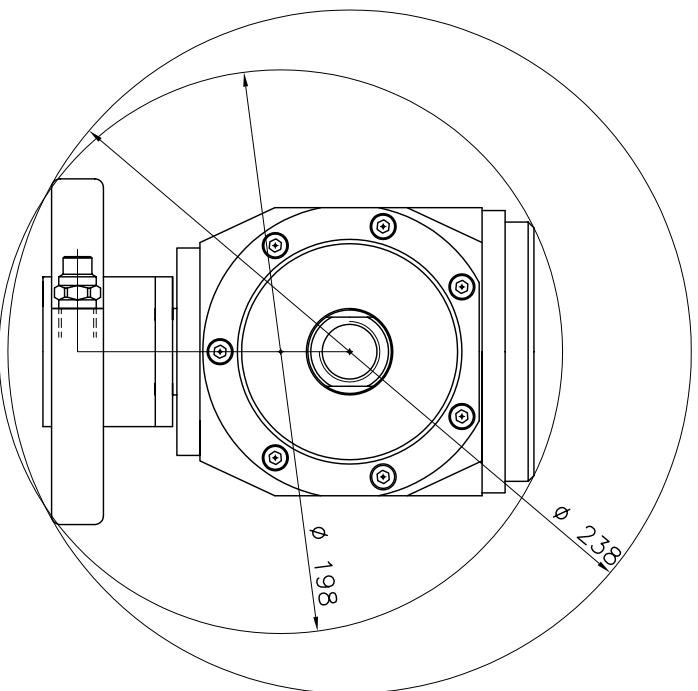
TECHNICAL DATA – 400 BAR VERSION

OPERATING FLOW RANGE	8 – 60 L/min
OPERATING PRESSURE RANGE	8 – 400 bar
MAX OPERATING TEMPERATURE	90 °C
WASHING CYCLE TIME	2'-12'
WATER INLET	1/2" G
NOZZLES POSITIONS	2 – 4
NOZZLES THREAD	1/4"NPT
O-RING	NBR – EPDM
LUBRICANT	SILICON OIL VISCOSITY 20–100–350–5000
MATERIAL	
INOX AISI 316	WEIGHT 10.5KG
ALUMINIUM	WEIGHT 5.5KG

RUGOSITA' (UNI 4600)	MODIFICA	1	2	3	4	5
	FOGLIO	XXXX				
GREZZO	DATA	XX.XX.XX				
	TOLLERANZE GENERALI classe m UNI-EN 22768/1	0÷6	6÷30	30÷120	120÷400	400÷1000
SGROSS.		±0.1	±0.2	±0.3	±0.5	±0.8
		±0.1	±0.2	±0.3	±0.5	±1.2
FINITURA	NOTE:	VERSIONE 09				
RETTIFICA	MATERIALE:					
VVV = 0.8/	DESCRIZIONE: FV020 DISEGNO DI APPLICAZIONE					
	FV020 APPLICATION DRAWING					
VVV = 0.8/	CODICE:					
	FV020					



FORO PASSAGGIO MIN IN ASSE MIN CENTER LINE THROUGH HOLE	Ø 238MM
FORO DI PASSAGGIO MIN MANUALE MIN MANUAL THROUGH HOLE	Ø 198MM



TECHNICAL DATA – 200 BAR VERSION	
PORTATA FLOW	8 – 200 L/MIN
PRESSIONE PRESSURE	8 – 200 BAR
TEMPO DI CICLO WASHING CYCLE TIME	10" – 30"
INGRESSO ACQUA WATER INLET	1/2" G
NUMERO UGELLI NOZZLE POSITION	2 / 4
FILETTO UGELLI NOZZLE THREAD	1/4" NPT
TENUTE SEALS	NBR – EPDM
OLIO LUBRICANT	SILICON OIL VISCOSITY 10–100–350–5000
TEMPERATURA TEMPERATURE	MAX 90° C
MATERIALE / MATERIAL	
ASI 316	WEIGHT 10,5 KG
ALLUMINIO ALUMINIUM	WEIGHT 5,5 KG

TECHNICAL DATA – 400 BAR VERSION	
PORTATA FLOW	8 – 60 L/MIN
PRESSIONE PRESSURE	8 – 400 BAR
TEMPO DI CICLO WASHING CYCLE TIME	10" – 30"
INGRESSO ACQUA WATER INLET	1/2" G
NUMERO UGELLI NOZZLE POSITION	2 / 4
FILETTO UGELLI NOZZLE THREAD	1/4" NPT
TENUTE SEALS	NBR – EPDM
OLIO LUBRICANT	SILICON OIL VISCOSITY 10–100–350–5000
TEMPERATURA TEMPERATURE	MAX 90° C
MATERIALE / MATERIAL	
ASI 316	WEIGHT 10,5 KG
ALLUMINIO ALUMINIUM	WEIGHT 5,5 KG

RUGOSITA' (UNI 4600)	MODIFICA	1	2	3	4	5
	FOGLIO	XXXX				
	DATA	XX.XX.XX				
GREZZO	TOLLERANZE GENERALI classe m UNI-EN 22768/1					
~ = Ø	0÷6	6÷30	30÷120	120÷400	400÷1000	1000÷2000
	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2
SGROSS. 3.2/	NOTE: VERSIONE 09					
▽ = ∇						
FINITURA						
▽▽ = 1.6/	MATERIALE:					
RETIFICA 0.8/	DESCRIZIONE: FV025 DISEGNO DI APPLICAZIONE					
▽▽ = 0.8/	FV025 APPLICATION DRAWING					
CODICE:		FV025				
SCALA		1:2 A3 0				
DATA: 08.09.09		MOD				
DISEGN.: CR		CONTR.: DM				
MONTECCHIO E. (RE) - ITALY						
CLEANING HEADS						
Bonomi						

SERIE MS

MS SERIES

TESTINE AUTOROTANTI
LAVAGGIO SETTORIALE

SELFSPINNING HEADS
SECTOR WASHING

TESTINE DI LAVAGGIO RINFORZATE

Con satelliti, perni e cuscinetti rinforzati per una maggiore resistenza all'usura

REINFORCED CLEANING HEADS

With reinforced side pinions, pins and bearing for improved wear resistance



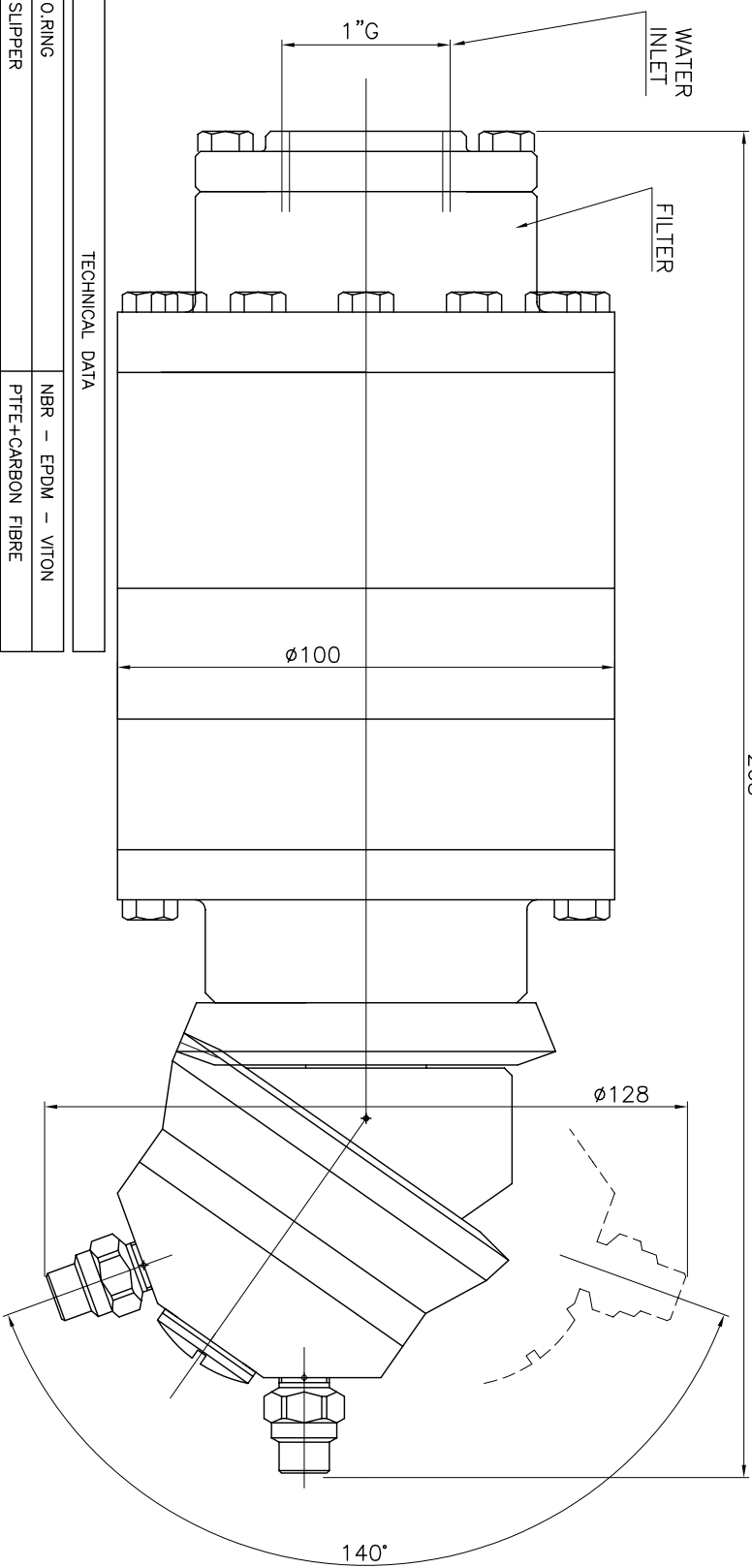
AQUAMOTOR

È un sistema di movimento auto rotante per testine di lavaggio la cui velocità di rotazione dipende dalla sola portata, ed è esente da lubrificanti.

It's a selfspinning device for cleaning heads with spinning speed depending only on water flow, it's operating without any lubricant.



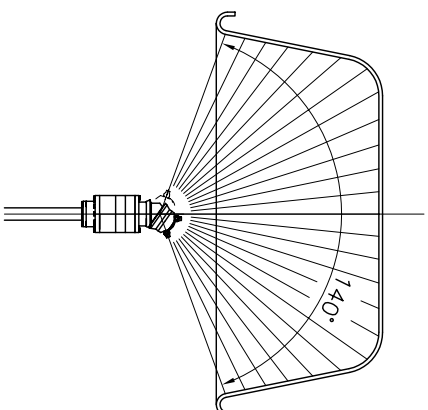
rOtojet



TECHNICAL DATA

O-RING	NBR - EPDM - VITON
SLIPPER	PTFE+CARBON FIBRE
BUSHING	AISI 316
FILTER	700 MICRON
NOZZLES POSITIONS	2 - 4
NOZZLES THREAD	1/8"NPT
TESTING NOZZLES	0 x 0000
OPERATING FLOW RANGE	15 - 60 L/min
TESTING FLOW	00 L/min
OPERATING PRESSURE RANGE	5 - 200 bar
TESTING PRESSURE	000 bar
CENTER LINE MIN PASS THROUGH HOLE	128 mm
MANUAL MIN PASS THROUGH HOLE	100 mm
MAX OPERATING TEMPERATURE	90 °C
MATERIAL	INOX AISI 316
CONICAL GEARS	FIXED Z=37 ROTATING Z=39
MODULE	2
DIFFUSER SPEED SETTING POSITIONS	4
TESTING DIFFUSER POSITION	X
ROTATION SPEED	SEE CHART
FULL CYCLE	39 ROTATIONS
FULL CYCLE TIME	26 sec. AT 90 RPM
WEIGHT	9.6 KG

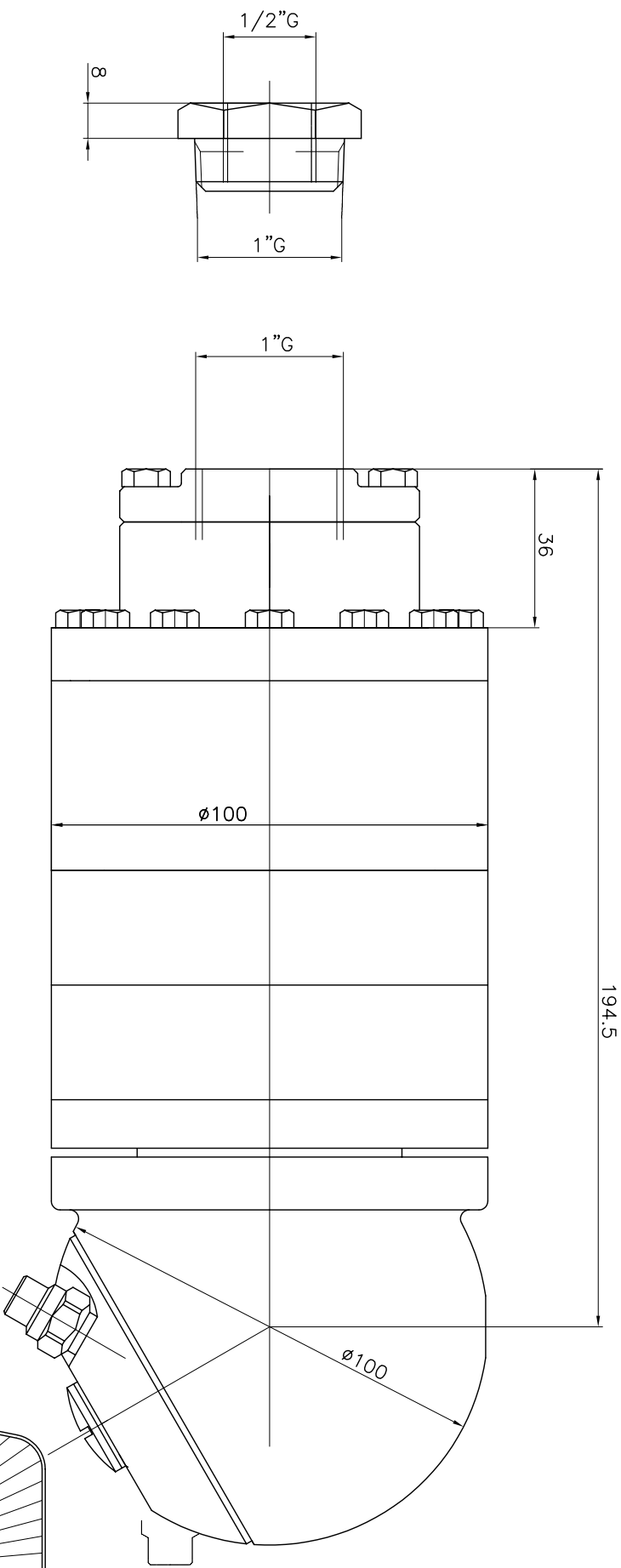
FLOW L/MIN		DIFFUSER POSITION			
1	2	3	4		
15	78	36			
30		90	42		
45			72	42	
60			96	60	
SPINNING SPEED		RPM			



file: MS 060WKC cm1

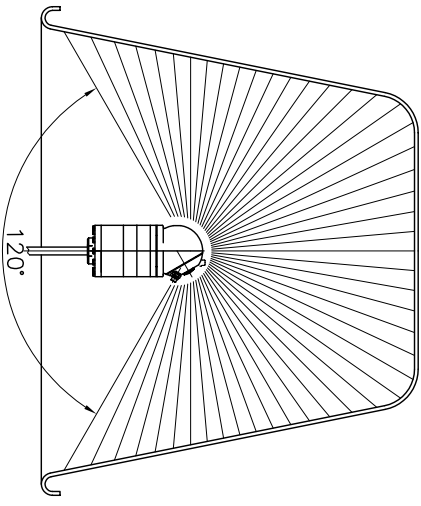
RUGOSITA' (UNI 4600)	MODIFICA	1	2	3	4	5
FOGLIO	XXXX					
DATA	XX.XX.XX					
GREZZO	TOLLERANZE GENERALI classe m UNI-EN 22768/1					
~ = Ø	0÷6 6÷30 30÷120 120÷400 400÷1000 1000÷2000					
SGROSS. 3/2	±0.1 ±0.2 ±0.3 ±0.5 ±0.8 ±1.2					
∇ = 3/2	NOTE:					
FINITURA 1,6/	MATERIALE: AISI 304					
∇∇ = 1,6/						
RETTIFICA 0,8/	DESCRIZIONE: MS060 WKC cm1 WITH FILTER					
∇∇∇ = 0,8/	FRONTAL PATTERN 140°					
	CODICE: MS 060WKC					
	SCALA 1:1 A3 0					
	DISIGN.: CR ICONTR.: DM					
	DATA: 16.02.09 MOD.					

Bonomi
CLEANING HEADS
MONTECCHIO E. (RE) - ITALY



DATI TECNICI	
temperatura max	90°C
pressione max	200 bar
portata	15-60 l/min
velocità di rotazione	120 g/min
tempo ciclo breve	15"
tempo ciclo completo	30"
diametro minimo foro	100 mm
entrata	1/2"G
ugelli	1/8"G
massa	5.5 Kg

TECHNICAL DATA	
temperature max	90°C
pressure max	200 bar
flow	15-60 l/min
spinning speed	120 g/min
short washing cycle time	15"
complete washing cycle time	30"
min. pass-through hole dia.	100 mm
water inlet	1/2"G-BSP-M
nozzle size	1/8"G-BSP-M
weight	5.5 Kg



RUGOSITÀ ¹ (UNI 4600)	MODIFICA	1	2	3	4	5	 CLEANING HEADS MONTECCHIO E. (RE) - ITALY DISIGN.: CR ICONTR.: DM DATA: 18.04.02 MOD.
GREZZO	FOGLIO	xxxx					
~ = Ø	DATA	xx.xx.xx					
SGROSS. 3/2	TOLLERANZE GENERALI classe m	UNI-EN 22768/1					
▽ = 3/2	0÷6	6÷30 30÷120 120÷400 400÷1000 1000÷2000					
FINITURA 1,6/	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2	
▽▽ = 1/2	NOTE: VERSIONE 01						
DESCRIZIONE: AQUAMOTOR SECTOR VERSIONE PORTAUGELLI INCLINATO PER LAVACASSONETTI 120°	MATERIALE: INOX+ALLUMINIO						
RETTIFICA 0,8/							
▽▽▽ = 1/2							
CODICE: MS060-A_CF	SCALA 1:1	A3	O				

SERIE MW

MW SERIES

TESTINE AUTOROTANTI
LAVAGGIO VOLUMETRICO

SELFSPINNING HEADS
VOLUMETRIC WASHING

TESTINE DI LAVAGGIO RINFORZATE

Con satelliti, perni e cuscinetti rinforzati per una maggiore resistenza all'usura

REINFORCED CLEANING HEADS

With reinforced side pinions, pins and bearing for improved wear resistance



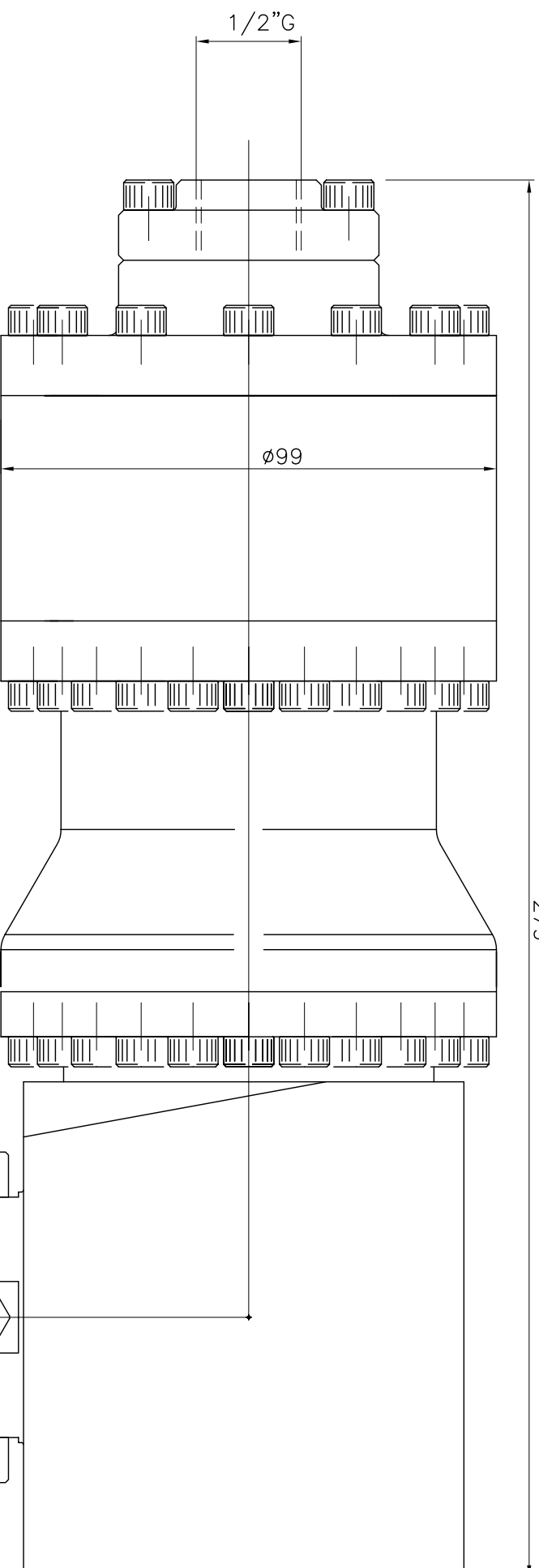
AQUAMOTOR

È un sistema di movimento auto rotante per testine di lavaggio la cui velocità di rotazione dipende dalla sola portata, ed è esente da lubrificanti.

It's a selfspinning device for cleaning heads with spinning speed depending only on water flow, it's operating without any lubricant.

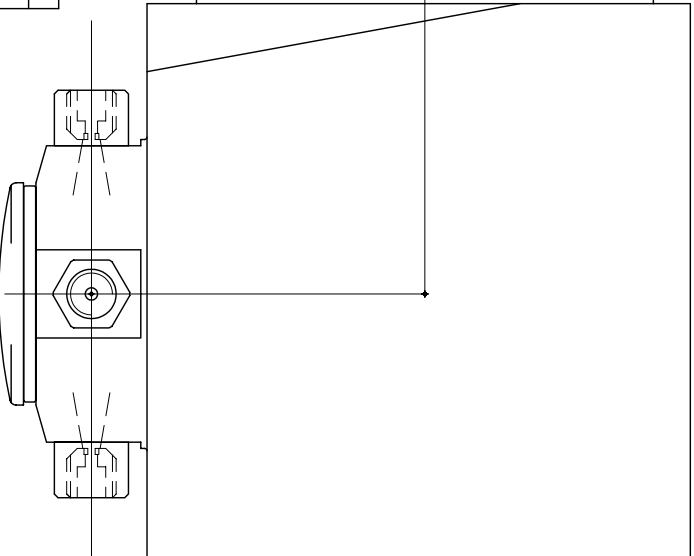


rOtojet



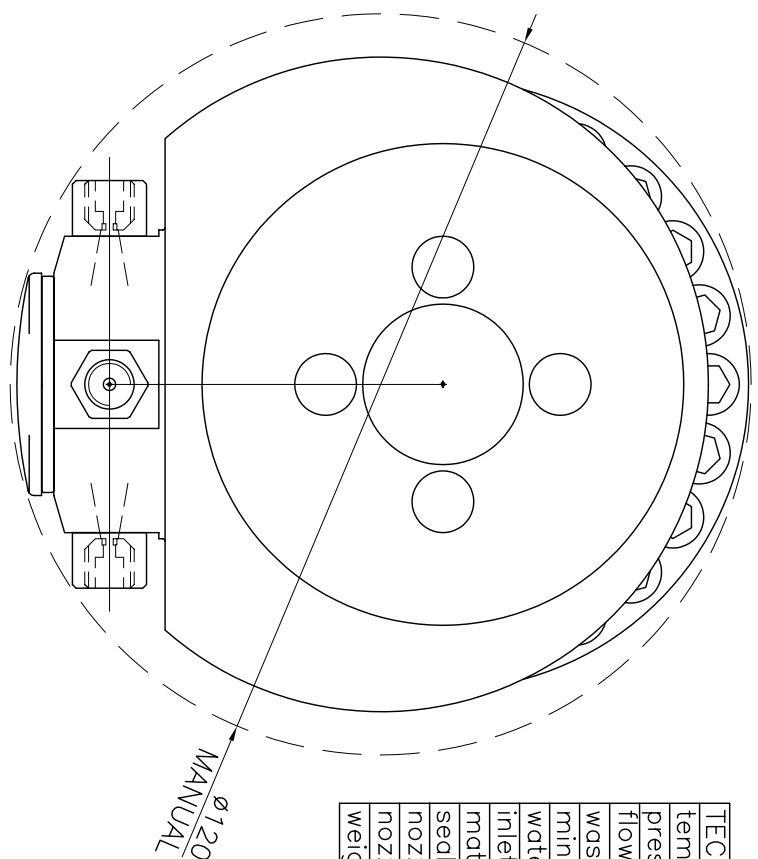
TECHNICAL DATA

temperature max	90°C
pressure max	500 bar
flow	40–100 l/min
washing cycle time	4.8 min
min. pass-through hole dia.	120 mm (manual)
water inlet	1/2" G
inlet filter	700 micron
material	INOX
seals	NBR
nozzle size	1/8" G SPACIAL
nozzles positions	2 – 4
weight	9.5 Kg



FLOW L/MIN		DIFFUSER OPENING				
		1-2	1-3	2-3	2-4	3-4
40	16	12				
50	19	15	12			
60		18	16	14		
70			19	16	12	
80				19	16	
90						18
100						19

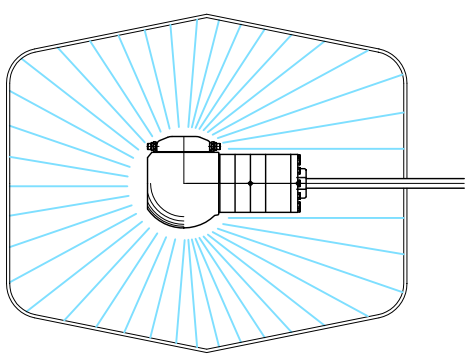
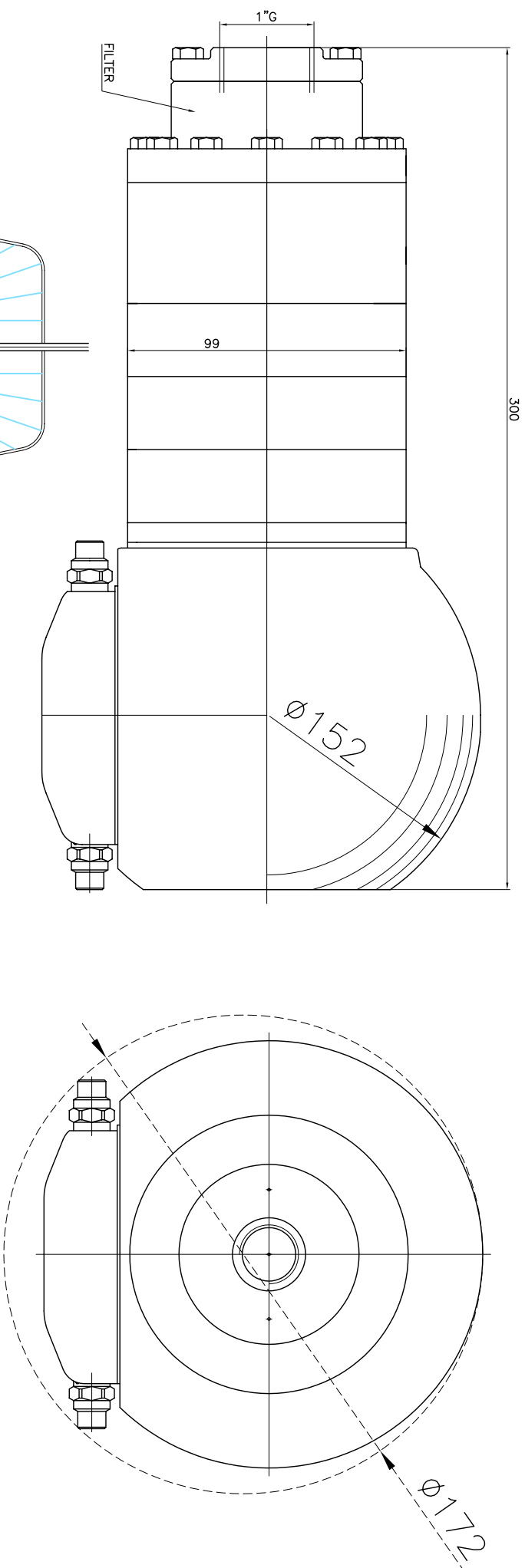
SPINNING SPEED RPM



RUGOSITA' (UNI 4600)	MODIFICA	1	2	3	4	5
GREZZO	FOGLIO	XXXX				
~ = Ø	DATA	XX.XX.XX				
SGROSS. 3/2	TOLLERANZE GENERALI classe m UNI-EN 22768/1					
Δ = Δ	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2
FINITURA 1.6/	NOTE:					
RETIFICA 0.8/	MATERIALE:					
ΔΔΔ = 0.8/	DESCRIZIONE: MW 510 A					
	INSTALLATION DRAWING					
	CODICE:	MW 510 A				
	SCALE	1:1	A4	O		
	DATA: 11.06.10					
	DISIGN.: CR	CONTR.: DM				

Bonomi
CLEANING HEADS

MONTECCHIO E. (RE) - ITALY

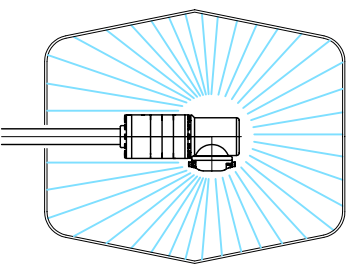


TECHNICAL DATA	
temperature max	90°C
pressure max	200 bar
flow	60-200 l/min
spinning speed	15 rpm
washing cycle time	5 min
min. pass-through hole dia.	172 mm manual
water inlet	1"G
inlet filter	700 micron
nozzle size	1/4"NPT
nozzles positions	2 - 4
weight	13 Kg

RUGOSITA' (UNI 4600)	MODIFICA	1	2	3	4	5
	FOGLIO	XXXX				
GREZZO	DATA	XX.XX.XX				
	TOLLERANZE GENERALI classe m UNI-EN 22768/1					
~ = 9/	0÷6	6÷30	30÷120	120÷400	400÷1000	1000÷2000
	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2
SGROSS. 3/2/	NOTE:					
∇ = ∇						
FINITURA 1.6/	MATERIALE:					
∇∇ = ∇						
RETTIFICA 0.8/	DESCRIZIONE: APPLICATION DRAWING					
∇∇∇ = ∇	MW 200 A-TK					
CODICE:		SCALE		MOD.		
MW		1:1		A3 0		
200A-TK						

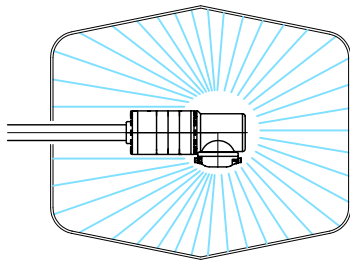
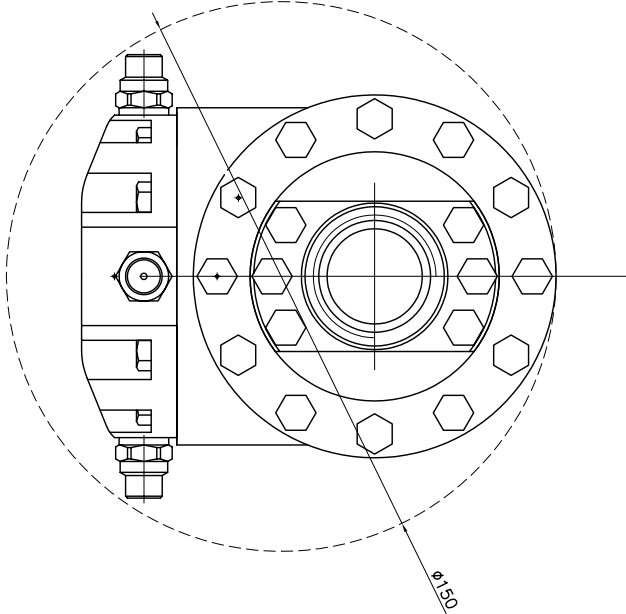
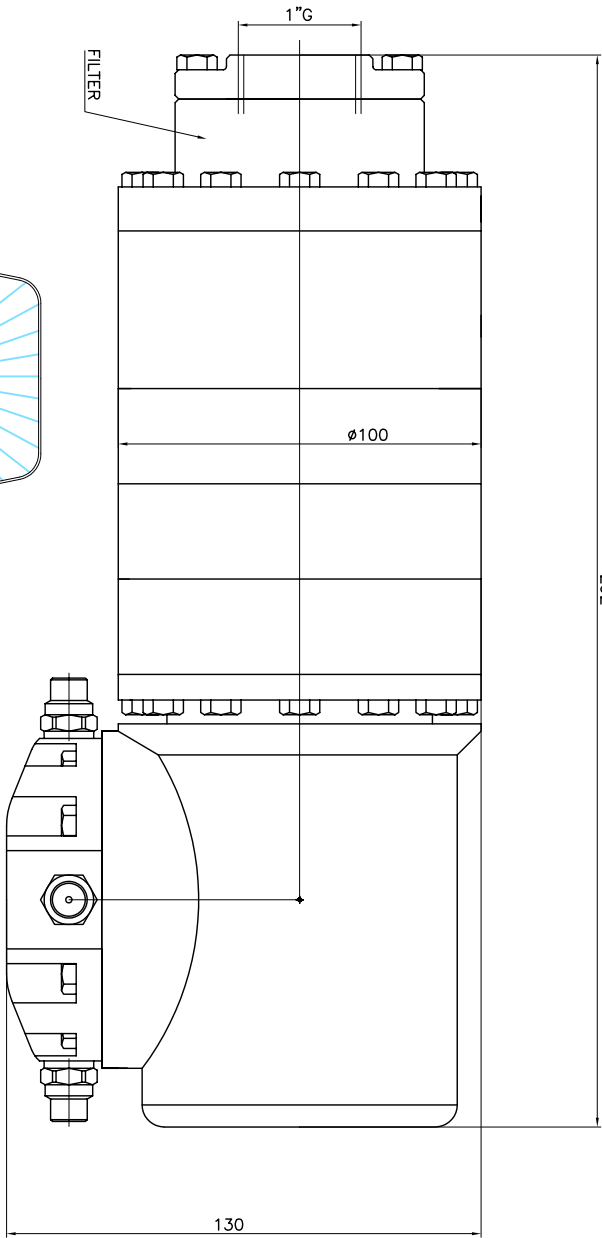
Technical drawing of a vertical cylindrical vessel. The drawing includes the following dimensions and features:

- Top Section:** A horizontal dimension of 1"G is indicated across the top flange.
- Filter:** A label "FILTER" with an arrow points to the top flange area.
- Main Body:** A vertical cylindrical section with a diameter of $\varnothing 100$ indicated by a horizontal dimension line.
- Side Connection:** A side connection is shown on the left side, featuring a flange and a bolted cover.
- Bottom Section:** A horizontal dimension of 129.5 is indicated across the bottom flange.



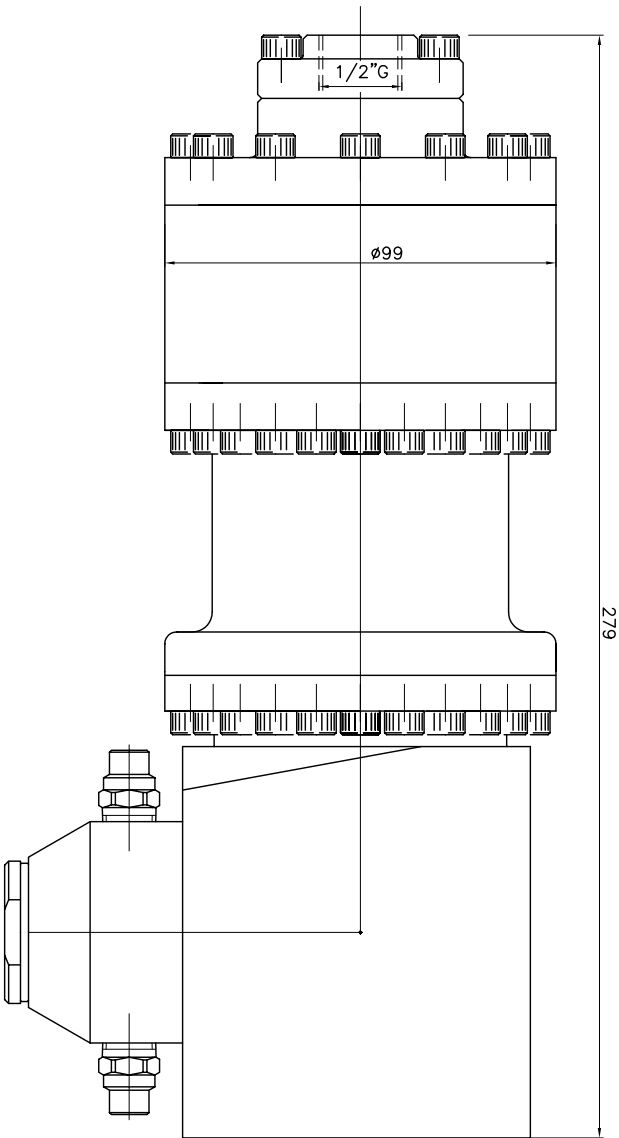
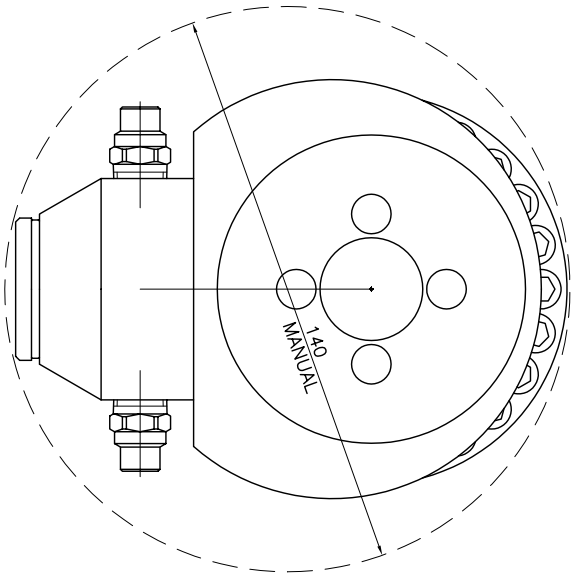
TECHNICAL DATA	
temperature max	90°C
pressure max	200 bar
flow	60–200 l/min
spinning speed	15 rpm
washing cycle time	5 min
min. pass-through hole dia.	150 mm manual
water inlet	1" G
inlet filter	700 micron
nozzle size	1/4"NPT
nozzles positions	2 – 4
weight	13 Kg

RUGOSITA' (UNI 4600)	MODIFICA	1	2	3	4	5
	FOGLIO	XXXX				
	DATA	XX.XX.XX				
	TOLLERANZE GENERALI classe m UNI-EN 22768/1					
~ = ∅	0÷6	6÷30	30÷120	120÷400	400÷1000	1000÷2000
SGROSS. ∇ = ∇	± 0.1	± 0.2	± 0.3	± 0.5	± 0.8	± 1.2
NOTE: VERS. 02						
FINITURA ∇∇ = ∇						
MATERIALE:						
RETTIFICA ∇∇∇ = ∇	DESCRIZIONE: APPLICATION DRAWING MW 200 A					
CODICE: MW 200A						



TECHNICAL DATA	
temperature max	90°C
pressure max	200 bar
flow	8–60 l/min
spinning speed	15 rpm
washing cycle time	5 min
min. pass-through hole dia.	150 mm manual
water inlet	1" G
inlet filter	700 micron
nozzle size	1/4"NPT
nozzles positions	2 – 4
weight	13 Kg

RUGOSITA' (UNI 4600)	MODIFICA	1	2	3	4	5
	FOGLIO	XXXX				
GREZZO	DATA	XX.XX.XX				
	TOLLERANZE GENERALI classe m UNI-EN 22768/1					
~ = φ	0 ÷ 6	6 ÷ 30	30 ÷ 120	120 ÷ 400	400 ÷ 1000	1000 ÷ 2000
	± 0.1	± 0.2	± 0.3	± 0.5	± 0.8	± 1.2
SGROSS. ∇ = ∇	NOTE: VERS. 03					
FINITURA $\nabla \nabla$ = ∇	MATERIALE:					
RETTIFICA $\nabla \nabla \nabla$ = ∇	DESCRIZIONE: APPLICATION DRAWING					
		MW 086 A				
		CODICE:				
		MW 086A				



DIFFUSER POSITION				
1	2	3	4	
15	13	6		
30		15	7	
45			12	7
60			16	10
SPINNING SPEED RPM				

FLOW L/MIN

TECHNICAL DATA	
temperature max	90°C
pressure max	500 bar
flow	15–60 l/min
washing cycle time	4.8 min
min. pass-through hole dia.	140 mm (manual)
water inlet	1/2"G
inlet filter	700 micron
material	INOX
seals	NBR
nozzle size	1/4"NPT
nozzles positions	2 – 4
weight	9.5 Kg

RUGOSITA' (UNI 4600)	MODIFICA				
	1	2	3	4	5
GREZZO	FOGLIO				
	DATA	XX.XX.XX			
SGROSS. 32/	TOLLERANZE GENERALI close m. UNI-EN 22768/1				
	0±6	6±30	30±120	120±400	400±1000
▽ = 3/2	±0.1	±0.2	±0.3	±0.5	±0.8
	±0.1	±0.2	±0.3	±0.5	±0.8
NOTE:					
FINITURA 16/					
RETTIFICA 16/					
VVV = 0.9/					
DESCRIZIONE: MW 586AA.02					
INSTALLATION DRAWING					
CODICE: MW 586AA.02					
SCALA 1:1 A4 0					
DISEGN.: CR CONTR.: DM					
MOD. DATA: 16.11.06					
Bortolotti CLEANING HEADS MONTECCHIO E. (RE) - ITALY					

462

364

98

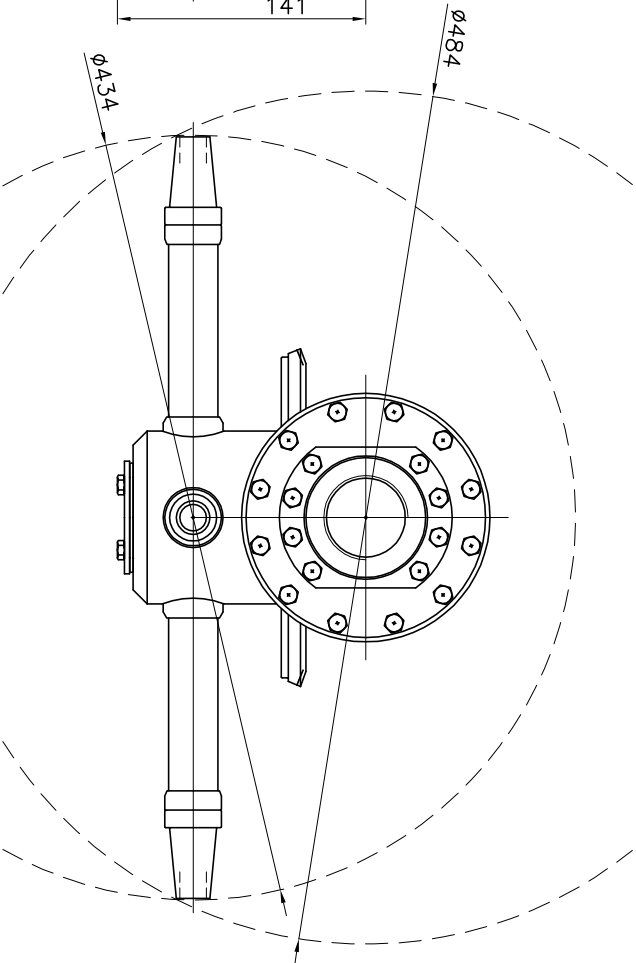
Ø141.3

98

141

Ø484

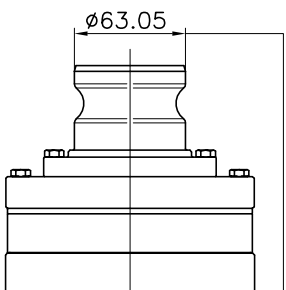
Ø434



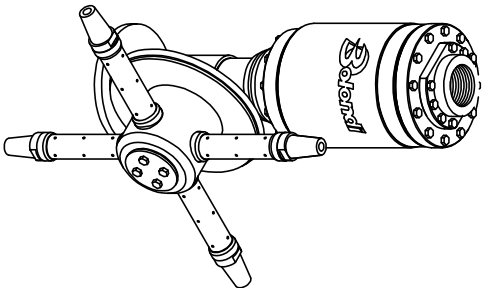
2" NPT-F
2" BSP-F
1.1/2" NPT-F
1.1/2" BSP-F

WATER INLET THREAD OPTIONS

WATER INLET OPTION 2" CAM-LOCK (A-A-59326B)



FLOW RANGE	100 to 600 L/min	26 to 160 USgpm
MAX PRESSURE	14 bar	200 psi
NOZZLES POSITIONS	2 - 4	
NOZZLES SIZE	7.5-11-14-15.5 mm	
MATERIAL	INOX AISI 316	
BUSHING MATERIAL	PEEK	
DRIVE	WATER TURBINE	
ROTATION SPEED	5 to 12 rpm	
FULL CYCLE TIME	8 to 19 min.	
CENTER LINE MIN PASS THROUGH HOLE	484 mm	19"
MANUAL MIN PASS THROUGH HOLE	434 mm	17"
MAX OPERATING TEMPERATURE	90°C	194°F
MAX TRACKS PITCH AT 1 m DISTANCE	30.6 mm	
MAX TRACKS PITCH AT 1 yard DISTANCE	1.1 inch	
WEIGHT	9.5 Kg.	



RUGOSITA' (UNI 4600)	MODIFICA	1	2	3	4	5	 CLEANING HEADS MONTECCHIO E. (RE) - ITALY
GREZZO	FOGLIO						
~ = Ø	DATA						
SGROSS. ±0.1 ±0.2 ±0.3 ±0.5 ±0.8 ±1.2	TOLLERANZE GENERALI classe m UNI-EN 22768/1 0-6 6-30 30-120 120-400 400-1000 1000-2000						
Δ = 3/2	NOTE:						DISEGN.: CR CONTR.: DM
FINITURA 1.6/	MATERIALE:						MOD.
ΔΔ = Δ							SCALE 1.3 A3 O
RETIFICA 0.9/							
ΔΔΔ = Δ	DESCRIZIONE: INSTALLATION DRAWING MW 600 A						CODICE: MW 600 A

SERIE PW

PW SERIES

TESTINE AUTOROTANTI
LAVAGGIO FORNTALE

SELFSPINNING HEADS
FRONT WASHING

TESTINE DI LAVAGGIO

Disponibili in diverse versioni per il lavaggio di esterni, superfici, condotti,

CLEANING HEADS

Available in differents versions for washing surfaces, pipe line and for external washing



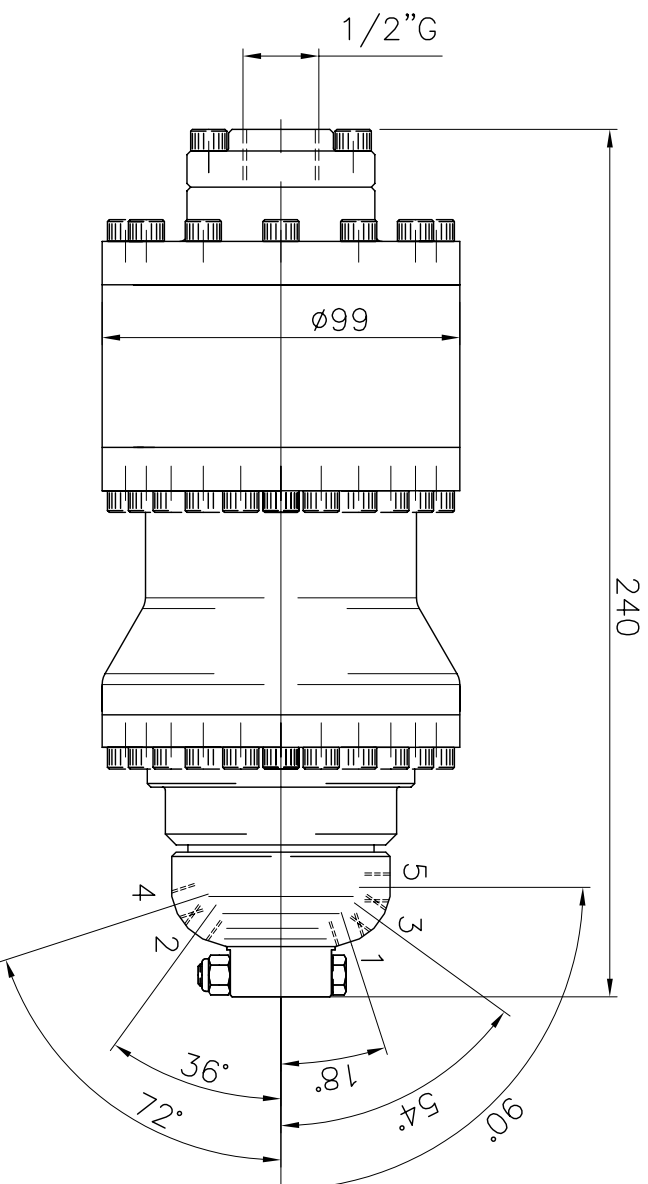
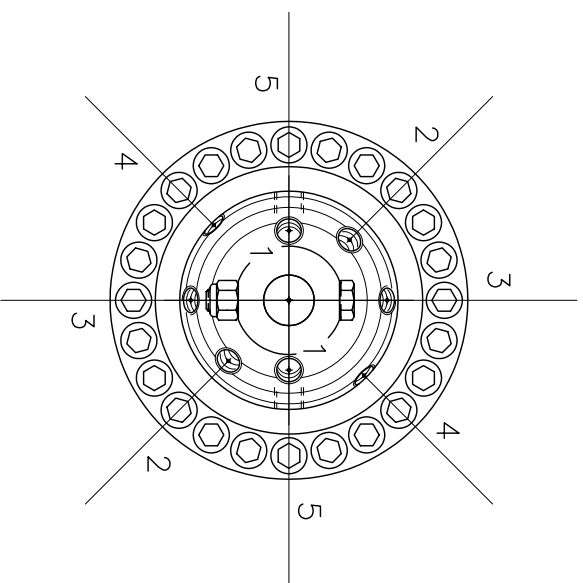
AQUAMOTOR

È un sistema di movimento auto rotante per testine di lavaggio la cui velocità di rotazione dipende dalla sola portata, ed è esente da lubrificanti.

It's a selfspinning device for cleaning heads with spinning speed depending only on water flow, it's operating without any lubricant.



rOtojet



TECHNICAL DATA

O.RING	NBR – EPDM – VITON
SLIPPER	PTFE+CARBON FIBRE
BUSHING	ALSI 316
FILTER	700 MICRON
NOZZLES POSITIONS	SEE CHART
NOZZLES THREAD	M8x1 (DRO501 FAMILY)
TESTING NOZZLES	X x DRXXXX
OPERATING FLOW RANGE	15 – 60 L/min
TESTING FLOW	00 L/min
OPERATING PRESSURE RANGE	5 – 500 bar
TESTING PRESSURE	000 bar
MAX OPERATING TEMPERATURE	90 °C
MATERIAL	INOX ALSI 316
DIFUSER SPEED SETTING POSITIONS	4
TESTING DIFUSER POSITION	X
ROTATION SPEED	SEE CHART
WEIGHT	9.6 KG

FLOW L/MIN		DIFUSER POSITION			
15	13	6			
30		15	7		
45			12	7	
60			16	10	
SPINNING SPEED		RPM			

2 M8x1 NOZZLES POSITIONS ON 36° CONE
2 M8x1 NOZZLES POSITIONS ON 72° CONE
2 M8x1 NOZZLES POSITIONS ON 108° CONE
2 M8x1 NOZZLES POSITIONS ON 144° CONE
2 M8x1 NOZZLES POSITIONS ON 180° CONE

PLUG NOZZLES POSITIONS NOT USED

RUGOSITA' (UNI 4600)	MODIFICA	1	2	3	4	5
	FOGLIO	XXXX				
GREZZO	DATA	XX.XX.XX				
	TOLLERANZE GENERALI classe m UNI-EN 22768/1	0÷6	6÷30	30÷120	120÷400	400÷1000
SGROSS.	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2
	NOTE:					
FINITURA	MATERIALE:					
	RETTIFICA					
DESCRIZIONE: PW 586AAB SL INSTALLATION DRAWING	CODICE:					
	PW 586AAB-SL					

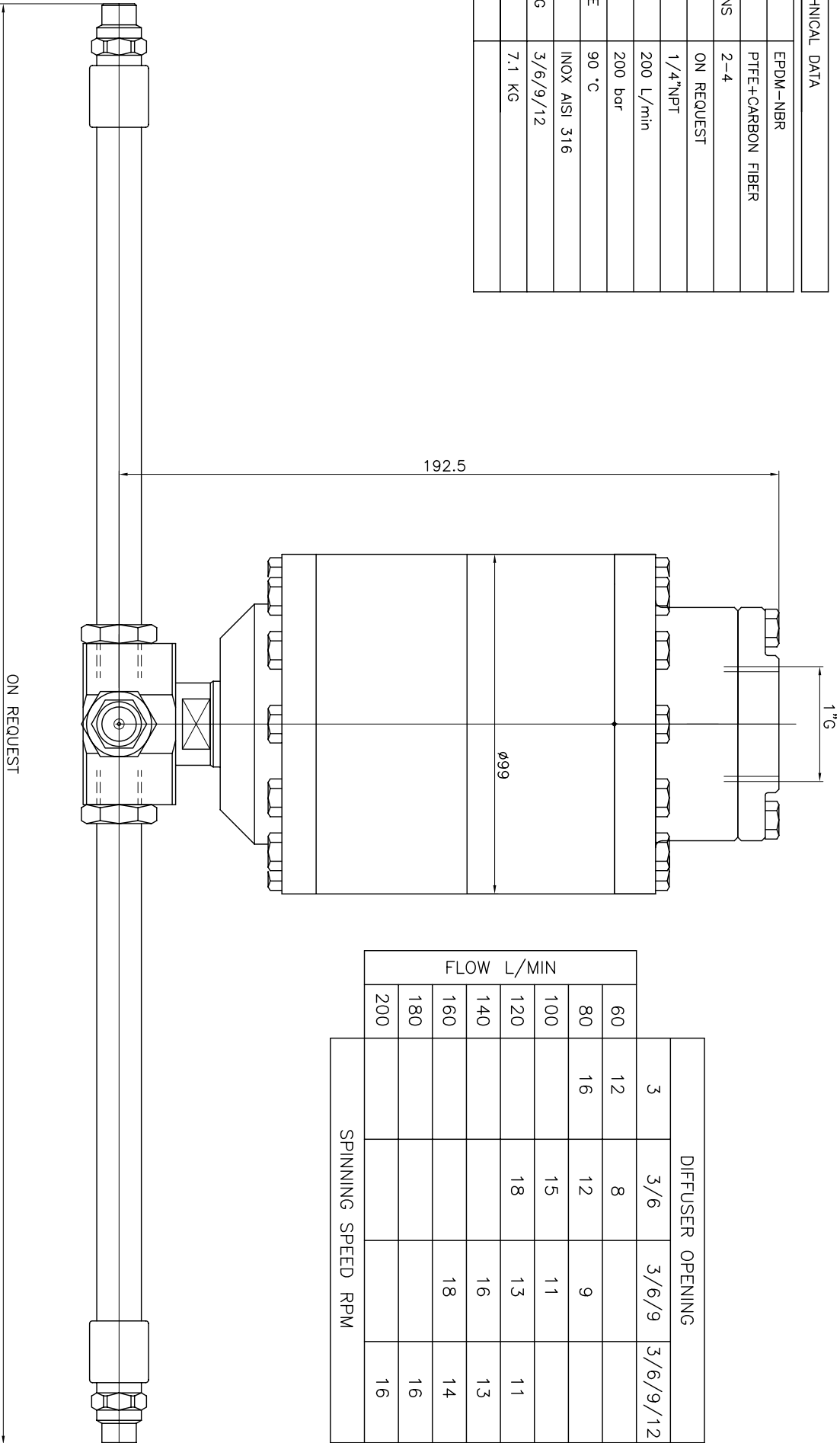


CLEANING HEADS
MONTECCHIO E. (RE) – ITALY

DISIGN.: CR | CONTR.: DM
DATA: 21.03.11 | MOD.

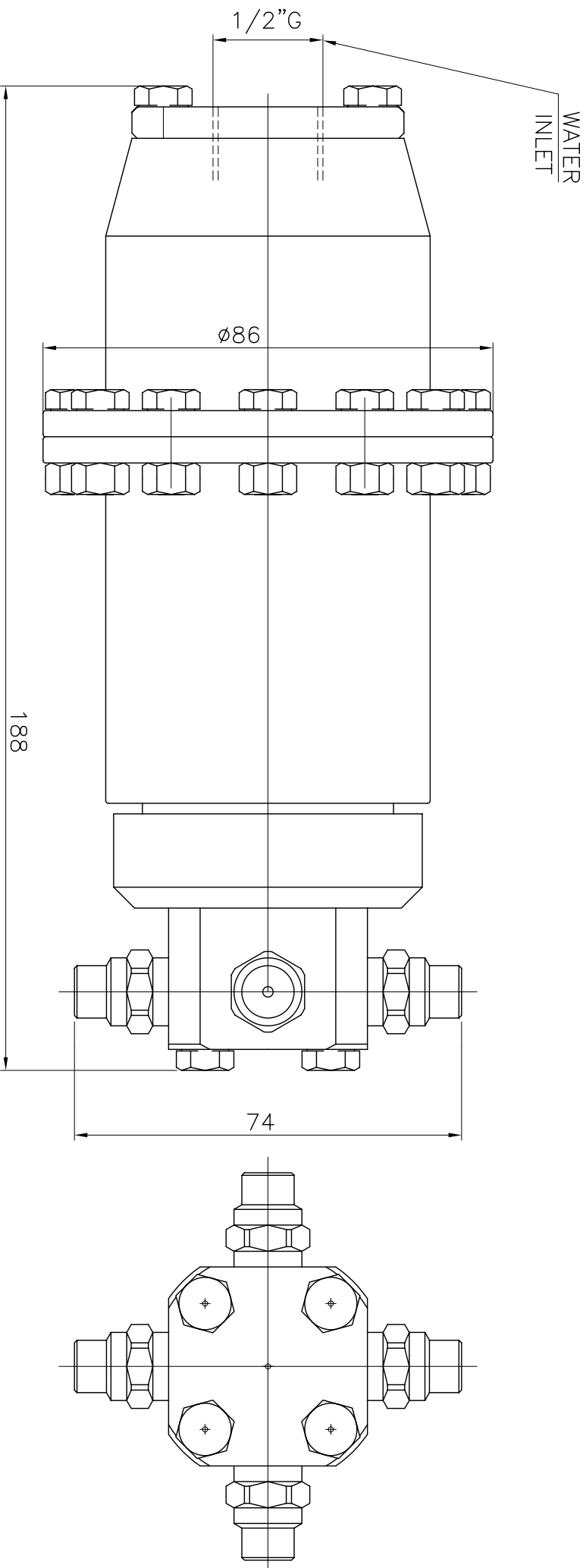
SCALE 1:2 | A4 | O

TECHNICAL DATA		
O.RING	EPDM-NBR	
SLIPPER	PTFE+CARBON FIBER	
NOZZLES POSITIONS	2-4	
NOZZLES CIRCLE	ON REQUEST	
NOZZLES SIZE	1/4"NPT	
MAX FLOW	200 L/min	
MAX PRESSURE	200 bar	
MAX TEMPERATURE	90 °C	
MATERIAL	INOX AISI 316	
DIFFUSER OPENING	3/6/9/12	
WEIGHT	7.1 KG	



DIFFUSER OPENING				
3	3/6	3/6/9	3/6/9/12	
60	12	8		
80	16	12	9	
100		15	11	
120		18	13	11
140			16	13
160			18	14
180				16
200				16
SPINNING SPEED RPM				

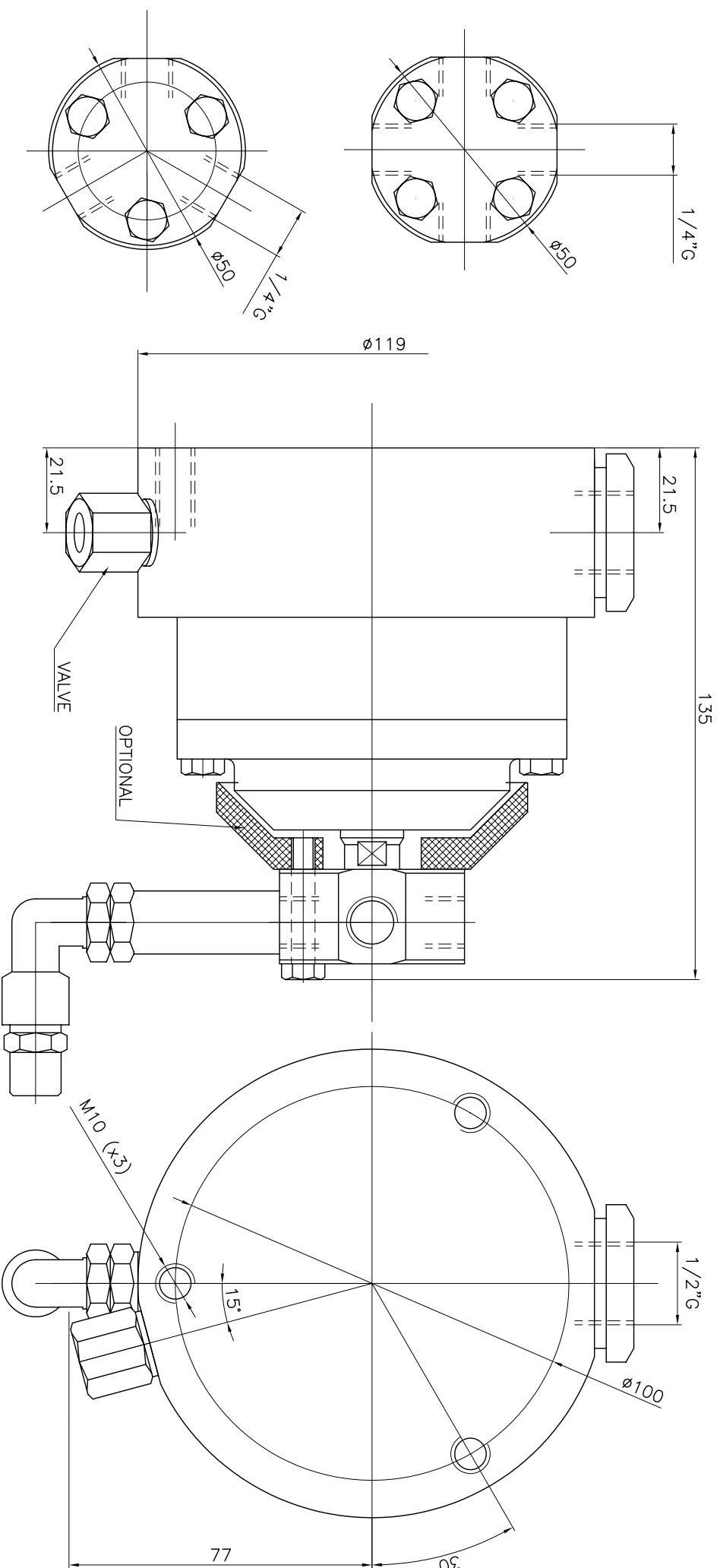
RUGOSITA' (UNI 4600)	MODIFICA	1	2	3	4	5	 CLEANING HEADS MONTECHIO E. (RE) - ITALY DISIGN: CRICOINTRA: DM DATA: 26.07.05 MOD. SCALE 1:1 A3 0
FOGLIO	XXXX						
DATA	XX XX XX						
GREZZO	TOLLERANZE GENERALI classe m UNI-EN 22768/1						
$\sim = \varphi'$ SGROSS. 3/2 $\nabla = \frac{3}{2}$ FINITURA $\nabla \nabla = \frac{1}{8}$ RETTIFICA $\nabla \nabla \nabla = \frac{0}{8}$	0±0.6 6-30 30-120 120-400 400-1000 1000-2000 ±0.1 ±0.2 ±0.3 ±0.5 ±0.8 ±1.2 NOTE: VERSION .05 MATERIALE: STAINLESS STEEL DESCRIZIONE: APPLICATION DRAWING						
PW 200-SL							



TECHNICAL DATA	
temperature max	90°C
pressure max	150 bar
flow	15–60 l/min
spinning speed	80 rpm
min. pass-through hole dia.	86 mm
water inlet	1/2"G
inlet filter	700 micron
nozzle size	1/4"NPT
nozzles positions	2 – 4
weight	2.8 Kg

RUGOSITA' (UNI 4600)	MODIFICA	1	2	3	4	5
	FOGLIO	XXXX				
	DATA	XX.XX.XX				
	TOLLERANZE GENERALI classe m UNI-EN 22768/1					
	0÷6	6÷30	30÷120	120÷400	400÷1000	1000÷2000
SGROSS. 3,2/	± 0.1	± 0.2	± 0.3	± 0.5	± 0.8	± 1.2
∇ = ∇/	NOTE:					
FINITURA 1,6/						
∇∇ = ∇/	MATERIALE: INOX					
RETTIFICA 0,8/						
∇∇∇ = ∇/	DESCRIZIONE: PW 186SP 01 INSTALLATION DRAWING					
 CLEANING HEADS MONTECCHIO E. (RE) - ITALY						
DISEGN.: CR		CONTR.: DM				
DATA: 11.02.09		MOD.				
SCALA 1:1		A4		O		
CODICE: PW 186SP 01						

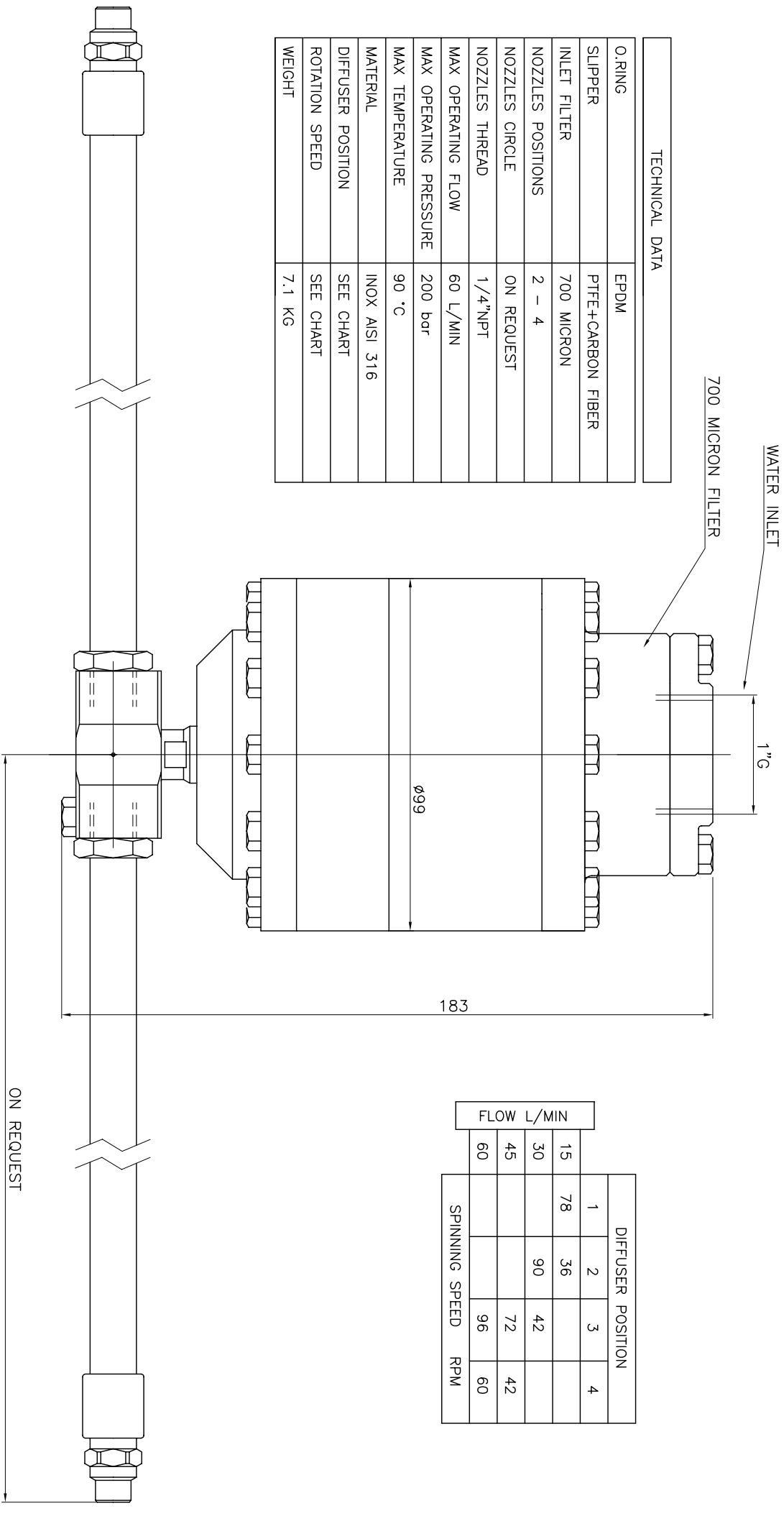
file: PW 186SP 01 cm



PRESSIONE PRESSURE RANGE	2#30 BAR				
UGELLO MOTORE MOTOR NOZZLE	ø5 MM	ø6 MM	ø6 MM	ø7 MM	ø7 MM
PORTATA FLOW	30 L/MIN	30 L/MIN	45 L/MIN	45 L/MIN	60 L/MIN
VELOCITA' ROTAZIONE SPEED	100 RPM	75 RPM	120 RPM	105 RPM	140 RPM
PESO WEIGHT	2.6 KG				

RUGOSITA' (UNI 4600)	MODIFICA	1	2	3	4	5	 CLEANING HEADS MONTECCHIO E. (RE) - ITALY DISEGN.: CR1CONTR.: DM DATA: 02.08.01 MOD.
GREZZO	FOGLIO	XXXX					
~ = ø	DATA	XX.XX.XX					
SGROSS. ±0.1	TOLLERANZE GENERALI classe m	UNI-EN 22768/1					
Δ = 3/2	0÷6 ±0.1	6÷30 ±0.2	30÷120 ±0.3	120÷400 ±0.5	400÷1000 ±0.8	1000÷2000 ±1.2	
FINITURA 1.6/	NOTE: versione 05						
Δ = 1/	MATERIALE:						
RETIFICA 0.8/	DESCRIZIONE: AQUAMOTOR VERS LAVAGGIO FRONTALE						
Δ = 1/	AQUAMOTOR SURFACE WASHING VERS.						
Δ = 1/	CODICE: PW 063 LC						

TECHNICAL DATA	
O. RING	EPDM
SLIPPER	PTFE+CARBON FIBER
INLET FILTER	700 MICRON
NOZZLES POSITIONS	2 - 4
NOZZLES CIRCLE	ON REQUEST
NOZZLES THREAD	1/4"NPT
MAX OPERATING FLOW	60 L/MIN
MAX OPERATING PRESSURE	200 bar
MAX TEMPERATURE	90 °C
MATERIAL	INOX AISI 316
DIFFUSER POSITION	SEE CHART
ROTATION SPEED	SEE CHART
WEIGHT	7.1 KG



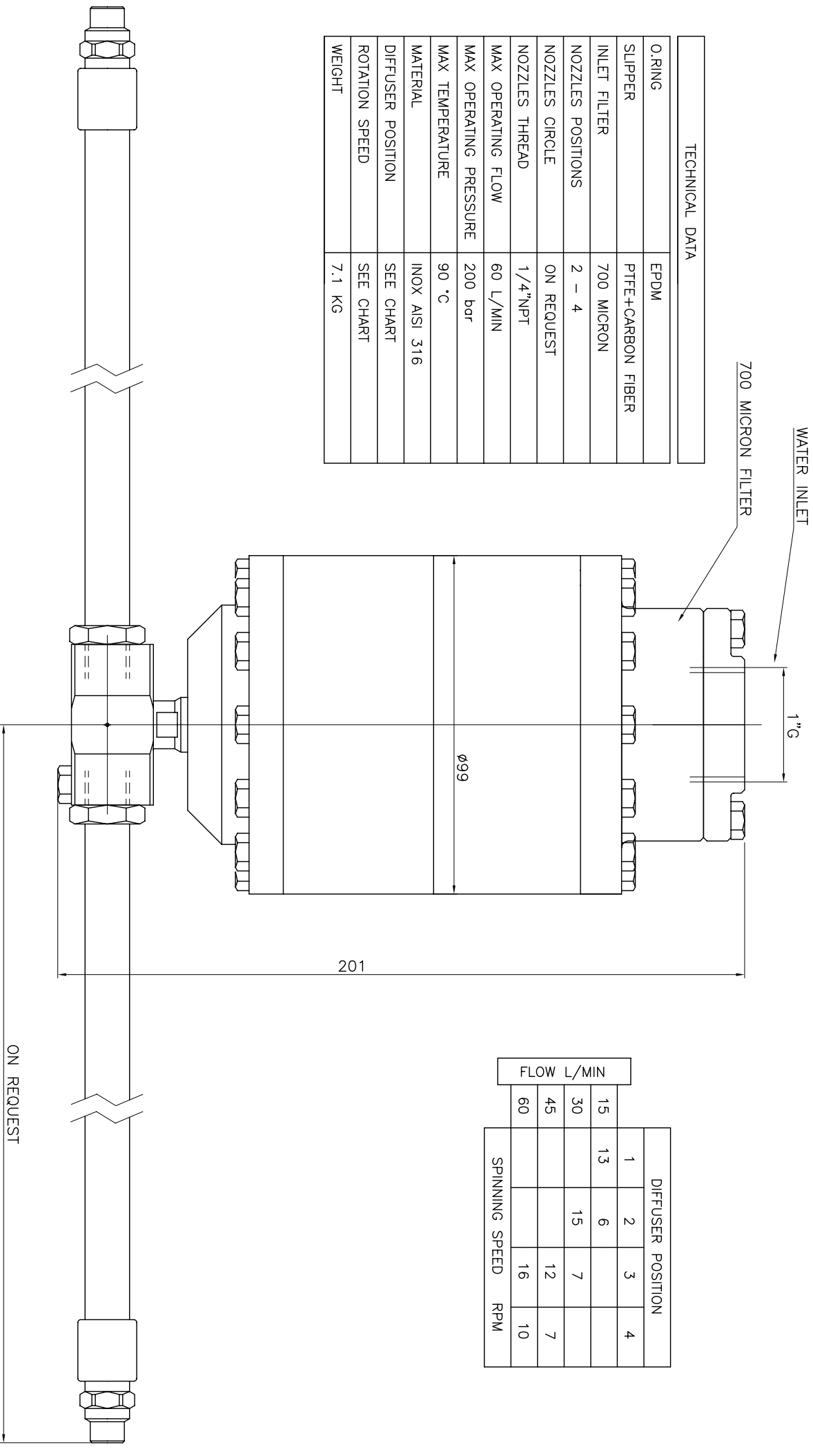
FLOW L/MIN		DIFFUSER POSITION			
1	2	3	4		
15	78	36			
30		90	42		
45			72	42	
60			96	60	
		SPINNING SPEED		RPM	

RUGOSITA' (UNI 4600)	MODIFICA	1	2	3	4	5
	FOGLIO	xxxx				
GREZZO	DATA	xx.xx.xx				
	TOLLERANZE GENERALI classe m UNI-EN 22768/1	0÷6	6÷30	30÷120	120÷400	400÷1000
SGROSS. 3/2	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2
	NOTE: VERSION 05					
FINITURA 3/2	NOTE: VERSION 05					
RETIFICA 0.8/	MATERIALE: INOX					
DESCRIZIONE: PW 060 SP APPLICATION DRAWING						
CODICE: PW 060 SP						

Boborrell
CLEANING HEADS
MONTECHIO E. (RE) - ITALY

DATA: 21.11.08
SCALA 1:1
MOD. A3 0

TECHNICAL DATA	
O. RING	EPDM
SLIPPER	PTFE+CARBON FIBER
INLET FILTER	700 MICRON
NOZZLES POSITIONS	2 - 4
NOZZLES CIRCLE	ON REQUEST
NOZZLES THREAD	1/4"NPT
MAX OPERATING FLOW	60 L/MIN
MAX OPERATING PRESSURE	200 bar
MAX TEMPERATURE	90 °C
MATERIAL	INOX AISI 316
DIFFUSER POSITION	SEE CHART
ROTATION SPEED	SEE CHART
WEIGHT	7.1 KG



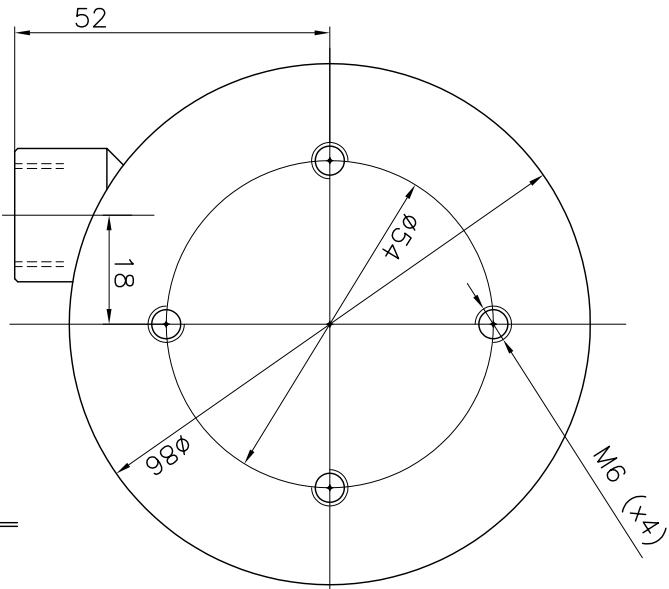
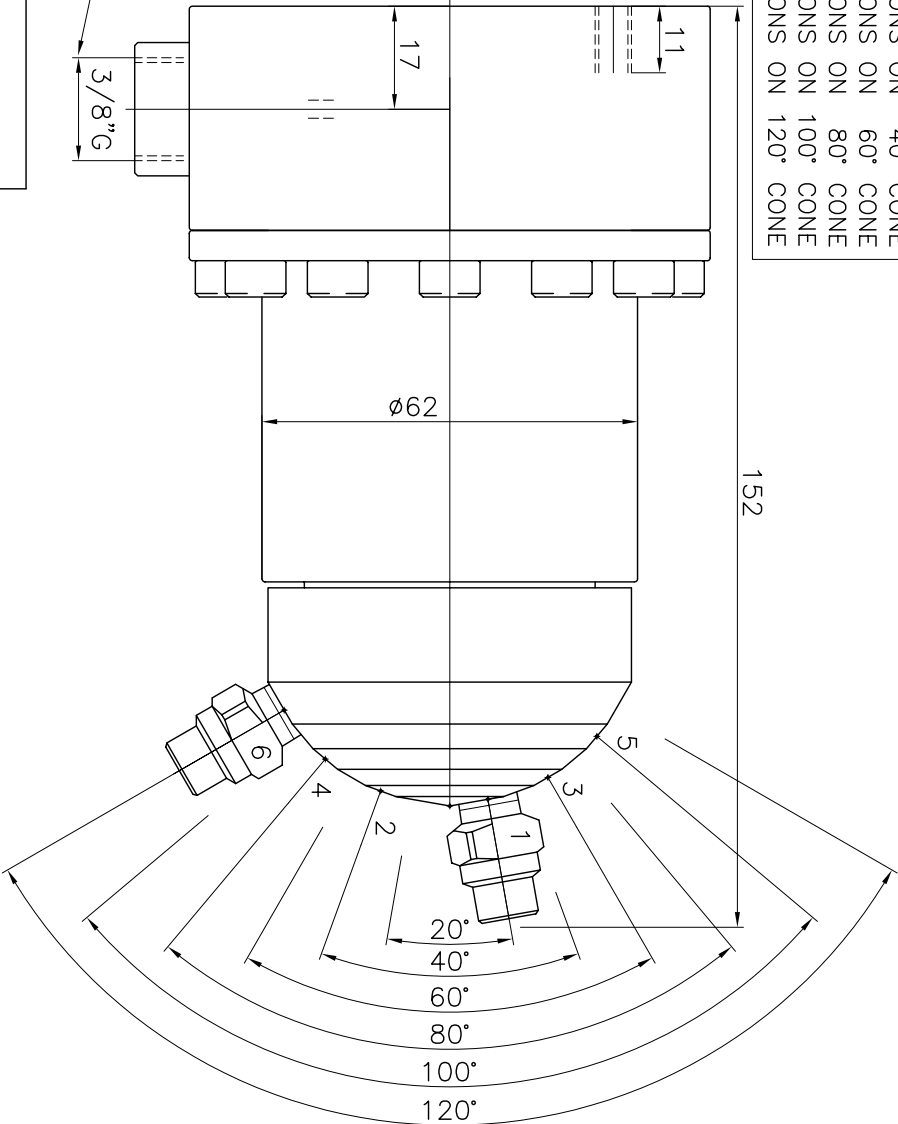
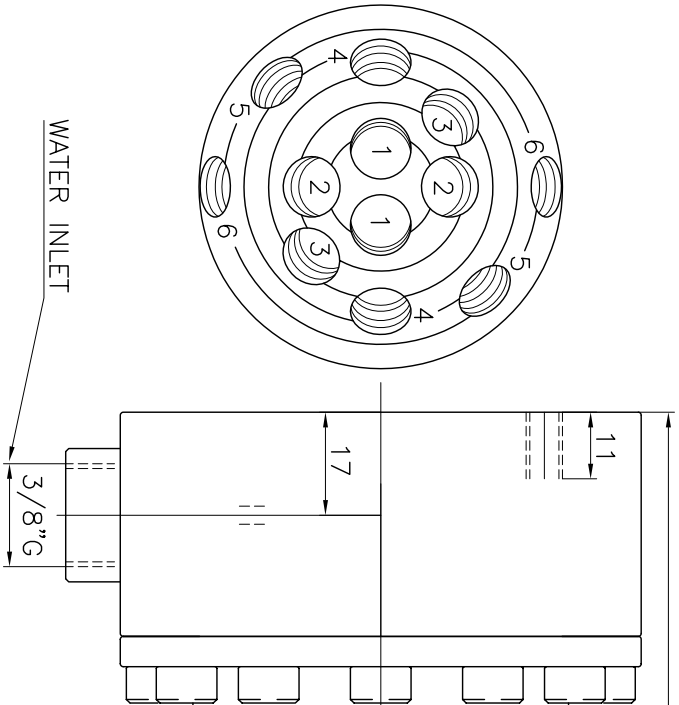
RUGOSITA' (UNI 4600)	MODIFICA	1	2	3	4	5
	FOGLIO	xxxx				
GREZZO	DATA	xx.xx.xx				
	TOLLERANZE GENERALI classe m UNI-EN 22768/1	0±6	6±30	30±120	120±400	400±1000
SGROSS.		±0.1	±0.2	±0.3	±0.5	±0.8
▽	NOTE: VERSION 05					±1.2
FINITURA						
▽▽	MATERIALE: INOX					
RETTIFICA	DESCRIZIONE: PW 060 SL					
▽▽▽	APPLICATION DRAWING					
	CODICE:					
	PW 060 SL					

CLEANING HEADS
MONTECHIO E. (RE) - ITALY

DISEGN.: CR | CONTR.: DM
DATA: 21.11.08 | MOD.
SCALA 1:1 | A3 0

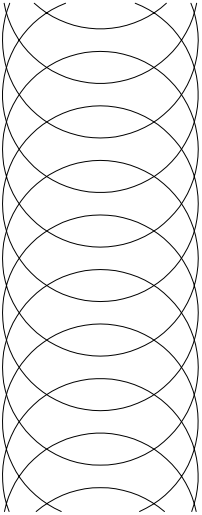
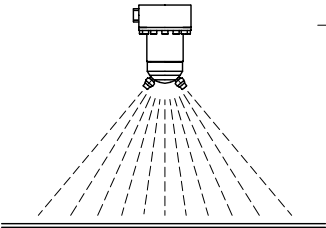
2	1/8"NPT	NOZZLES	POSITIONS	ON	20°	CONE
2	1/8"NPT	NOZZLES	POSITIONS	ON	40°	CONE
2	1/8"NPT	NOZZLES	POSITIONS	ON	60°	CONE
2	1/8"NPT	NOZZLES	POSITIONS	ON	80°	CONE
2	1/8"NPT	NOZZLES	POSITIONS	ON	100°	CONE
2	1/8"NPT	NOZZLES	POSITIONS	ON	120°	CONE

PLUG NOZZLES POSITIONS NOT USED



TECHNICAL DATA	
temperature max	90°C
pressure max	150 bar
flow	15–30 l/min
spinning speed	180–200 rpm
water inlet	3/8"G
nozzle thread	1/8"NPT
nozzles positions	2 (x6 angles)
weight	3.0 Kg

		flow L / min				
	15	18	20	25	30	
turbine nozzle	3,0 mm	4,0 mm	4,0 mm	5,0 mm	6,0 mm	
washing nozzles	2x0003	2x0004	2x0004	2x0005	2x0006	
pressure bar	105	95	110	100	100	
speed rpm	207	184	203	200	200	
pressure drop bar	8,5	5	6,5	6	7,5	



WITH LINEAR MOTION PATTERN

RUGOSITA' (UNI 4600)	MODIFICA	1	2	3	4	5
	FOGLIO	XXXX				
	DATA	XX.XX.XX				
	TOLLERANZE GENERALI	close m	UNI-EN 22768/1			
GREZZO	0÷6	6÷30	30÷120	120÷400	400÷1000	1000÷2000
SGROSS.	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2
NOTE:	vers.	01				
FINITURA	MATERIALE:					
RETTIFICA	DESCRIZIONE:	SURFACE WASHING SIDE INLET				
INSTALLATION DRAWING						
CODICE:	PW049 – AAB					
SCALE	1:1	A4	O			
DISIGN.:	CR	CONTR.:	DM			
DATA:	14.04.09					
MOD.						



CLEANING HEADS
MONTECCHIO E. (RE) – ITALY

WATER INLET

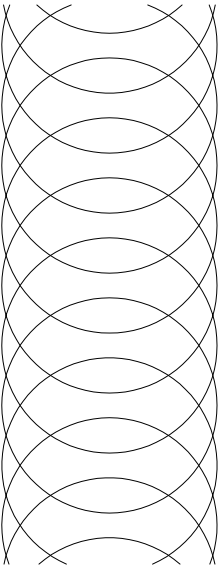
FILTER

182

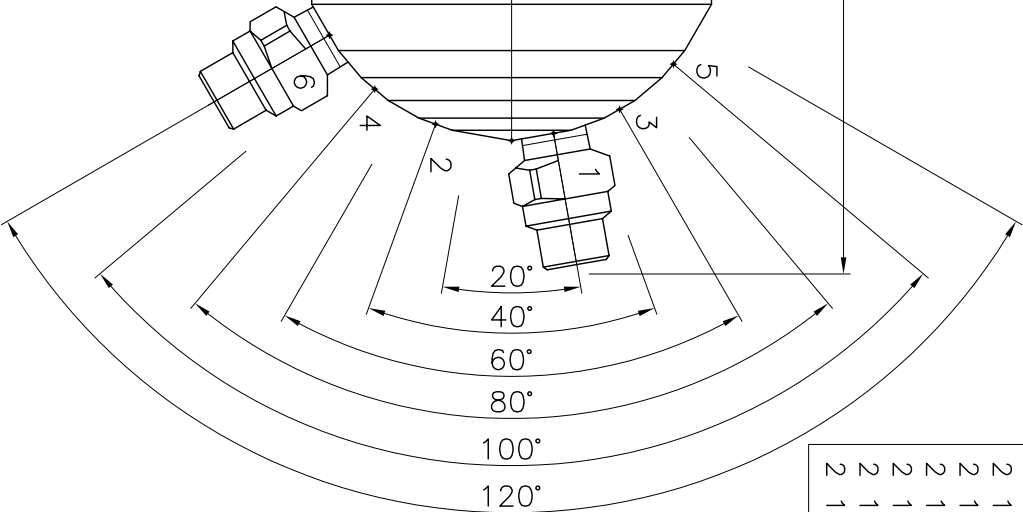
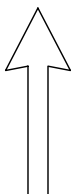
1/2"G

ø86

ø62

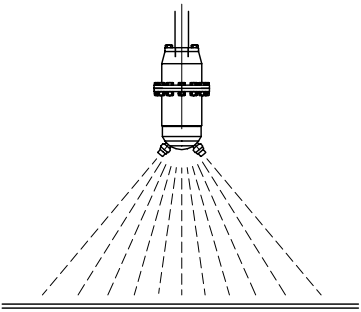
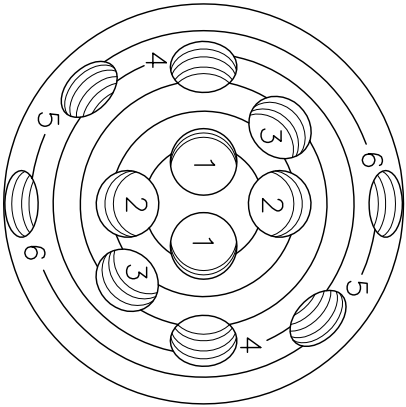


WITH LINEAR MOTION PATTERN



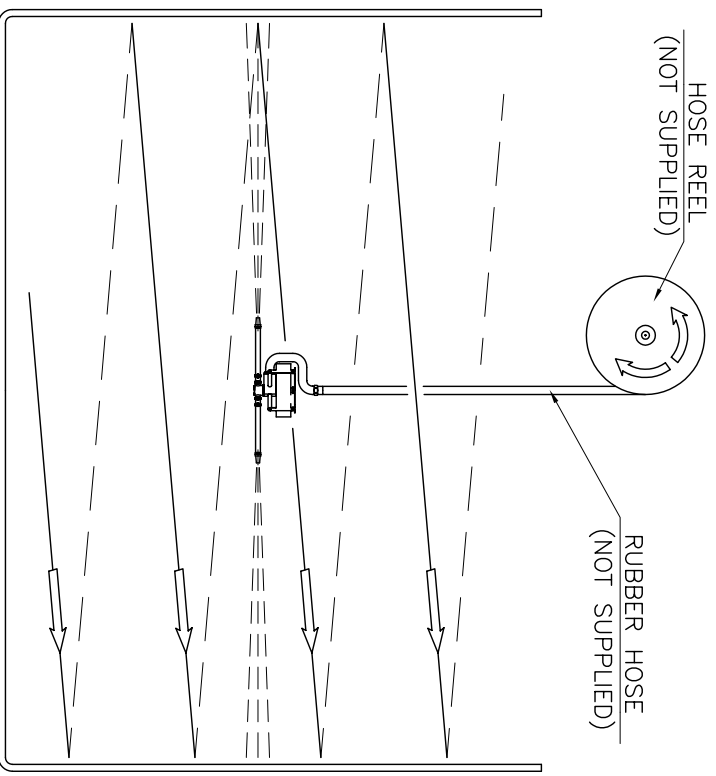
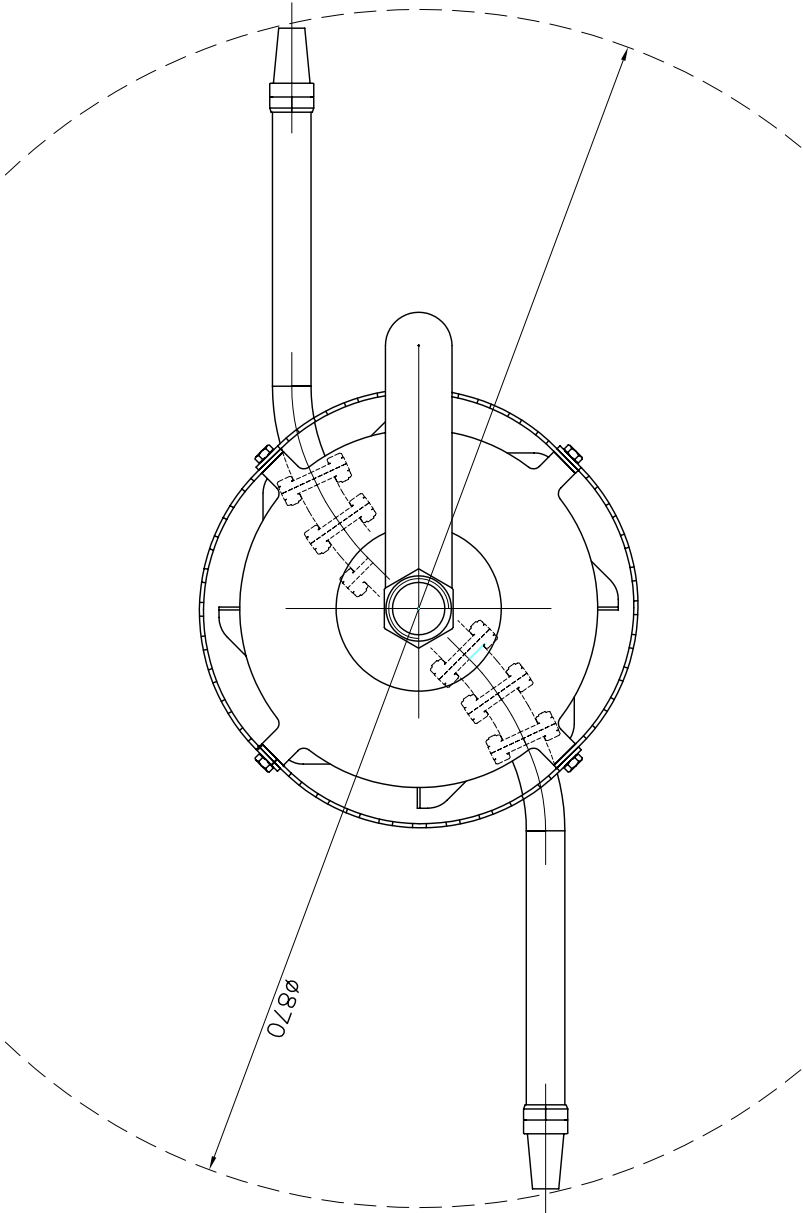
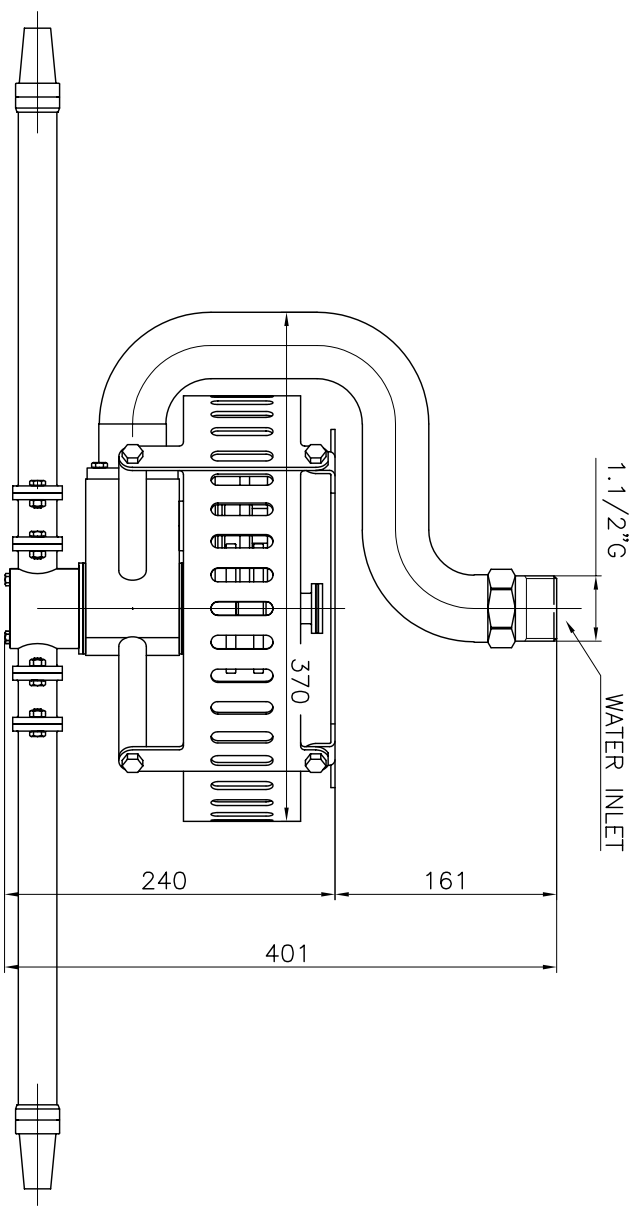
2	1/8"NPT	NOZZLES	POSITIONS	ON	20°	CONE
2	1/8"NPT	NOZZLES	POSITIONS	ON	40°	CONE
2	1/8"NPT	NOZZLES	POSITIONS	ON	60°	CONE
2	1/8"NPT	NOZZLES	POSITIONS	ON	80°	CONE
2	1/8"NPT	NOZZLES	POSITIONS	ON	100°	CONE
2	1/8"NPT	NOZZLES	POSITIONS	ON	120°	CONE

PLUG NOZZLES POSITIONS NOT USED



TECHNICAL DATA	
temperature max	90°C
pressure max	150 bar
flow	15-60 l/min
spinning speed	100 rpm
water inlet	1/2"G
filter	700 micron
nozzle thread	1/8"NPT
nozzles positions	2 (x6 angles)
weight	3.0 Kg

RUGOSITA' (UNI 4600)	MODIFICA				
	1	2	3	4	5
GREZZO	FOGLIO XXXX				
	DATA XX.XX.XX				
TOLLERANZE GENERALI classe m UNI-EN 22768/1	0÷6				
	6÷30				
SGROSS. 3.2/	±0.1				
	±0.2				
NOTE: vers.01	±0.3				
	±0.5				
FINITURA 1.6/	±0.8				
	±1.2				
RETTIFICA 0.8/	NOTE: vers.01				
	V = V				
V = V	FINITURA 1.6/				
	V = V				
V = V	RETTIFICA 0.8/				
	V = V				
DESCRIZIONE: AQUAMOTOR SURFACE WASHING	MATERIALE: INOX				
	INSTALLATION DRAWING				
CODICE: PW 049.AA	DESCRIZIONE: AQUAMOTOR SURFACE WASHING				
	INSTALLATION DRAWING				
DISEGN.: CR CONTR.: DM	DESCRIZIONE: AQUAMOTOR SURFACE WASHING				
	INSTALLATION DRAWING				
DATA: 11.04.07	DESCRIZIONE: AQUAMOTOR SURFACE WASHING				
	INSTALLATION DRAWING				
MOD.	DESCRIZIONE: AQUAMOTOR SURFACE WASHING				
	INSTALLATION DRAWING				
SCALE 1:1	DESCRIZIONE: AQUAMOTOR SURFACE WASHING				
	INSTALLATION DRAWING				
A4	DESCRIZIONE: AQUAMOTOR SURFACE WASHING				
	INSTALLATION DRAWING				
O	DESCRIZIONE: AQUAMOTOR SURFACE WASHING				
	INSTALLATION DRAWING				



MAX FLOW	600 L/min.
MAX PRESSURE	10 bar
NOZZLES POSITIONS	2
NOZZLES SIZE	7.5-11-14-15.5 mm
DRIVE	REACTION
ROTATION SPEED	5 to 10 rpm
SPEED CONTROL	AERODYNAMIC
MATERIAL	INOX AISI 316
BUSHING MATERIAL	PEEK
MIN PASS THROUGH HOLE	900 mm
WEIGHT	7.5 Kg.

RUGOSITA' (UNI 4600)	MODIFICA	1	2	3	4	5	 CLEANING HEADS MONTECCHIO E. (RE) - ITALY
GREZZO	FOGLIO						
~ = ∅	DATA						
TOLLERANZE GENERALI close m UNI-EN 22768/1							
0÷6 ±0.1 ±0.2 ±0.3 ±0.5 ±0.8 ±1.2							
SGROSS. 3/2	NOTE:						DISEGN.: CR CONTR.: DM DATA: 03.06.10 MOD.
∇ = 3/2							
FINITURA 1.6/	MATERIALE:						
∇∇ = ∇							
RETTIFICA 0.8/							
∇∇∇ = ∇	DESCRIZIONE: INSTALLATION DRAWING PW 610						CODICE: PW 610 cm

SERIE RT

RT SERIES

TESTINE AUTOROTANTI
LAVAGGIO VOLUMETRICO

SELFSPINNING HEADS
VOLUMETRIC WASHING

TESTINE DI LAVAGGIO PER BASSA PRESSIONE

Testine per bassa pressione idonee per azione di risciacquo

LOW PRESSURE CLEANING HEADS

Low pressure cleaning head suitable for rinse the tank



AQUAMOTOR

È un sistema di movimento autorotante per testine di lavaggio la cui velocità di rotazione dipende dai seguenti fattori: portata, posizione degli ugelli, viscosità dell'olio.

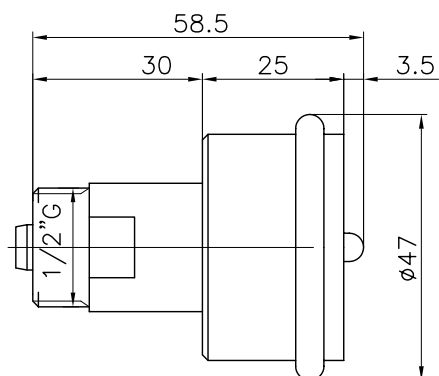
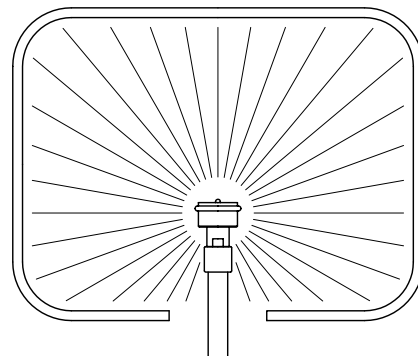
It's a selfspinning device for cleaning heads with spinning speed depending on: water flow, nozzle position, oil viscosity.



rOtojet

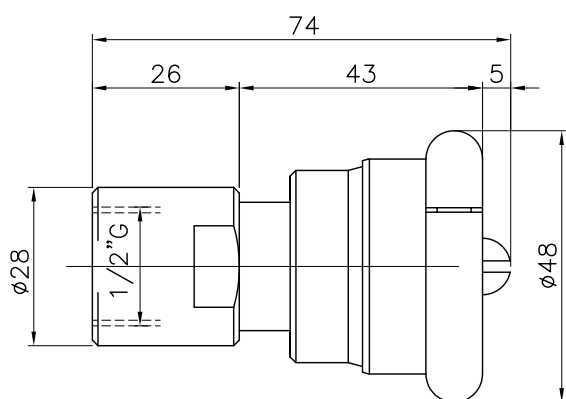
RT Series

MATERIAL	AISI 316
MAX PRESSURE	10 bar
MAX OPERATING TEMPERATURE	90°C



RT00008

3x 0.6 mm SLOTS					
PRESSURE (bar)	1	2	3	4	5
FLOW (L/min)	6	10	11	12	18



RT0225

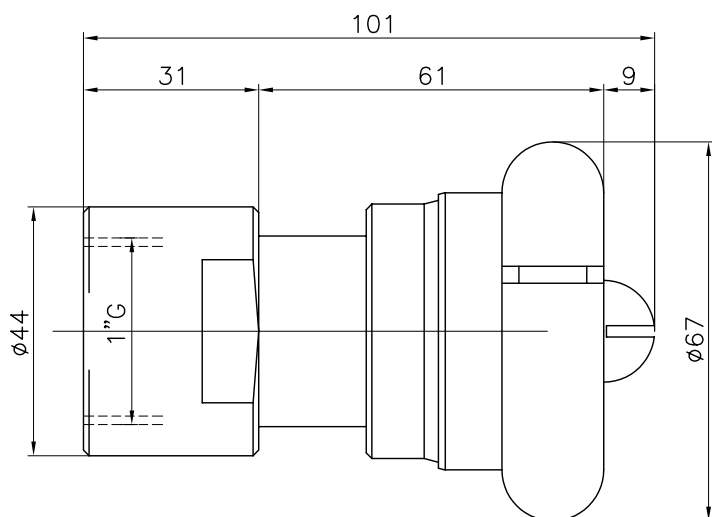
3x 0.8 mm SLOTS					
PRESSURE (bar)	2	4	6	8	10
FLOW (L/min)	15	21	27	32	35

RT0235

3x 1 mm SLOTS					
PRESSURE (bar)	2	4	6	8	10
FLOW (L/min)	18	25	32	36	41

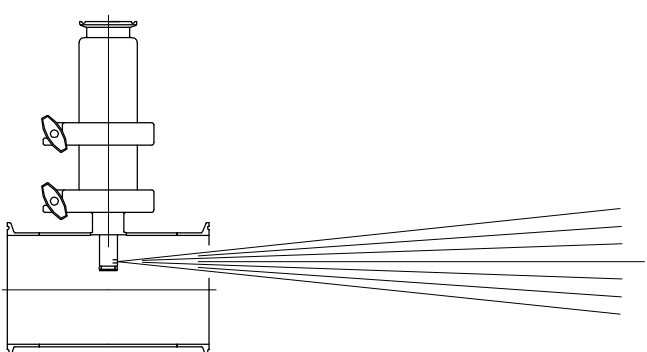
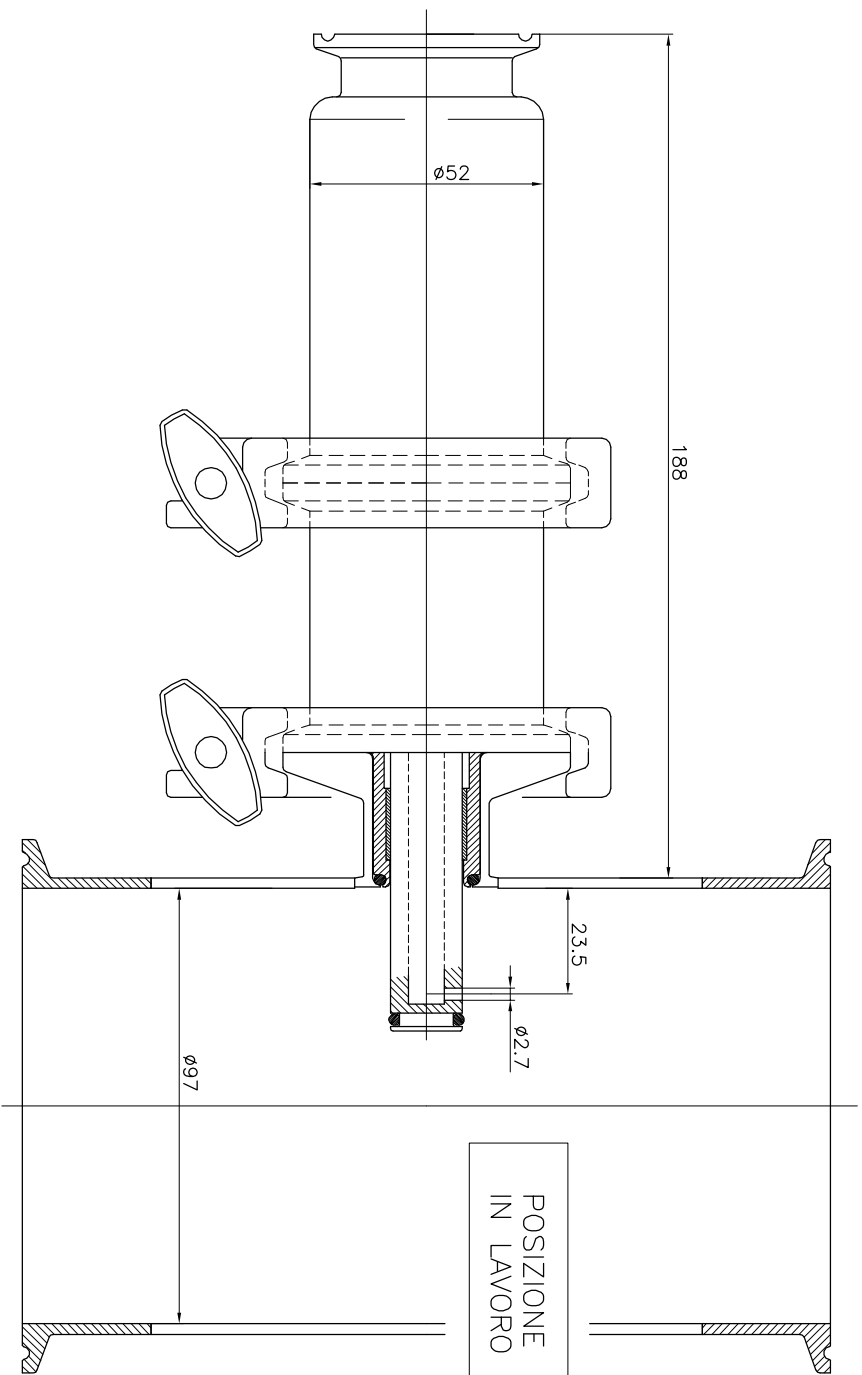
RT0255

2x 1.5 mm + 1x 1 mm SLOTS					
PRESSURE (bar)	2	4	6	8	10
FLOW (L/min)	40	53	63	75	83

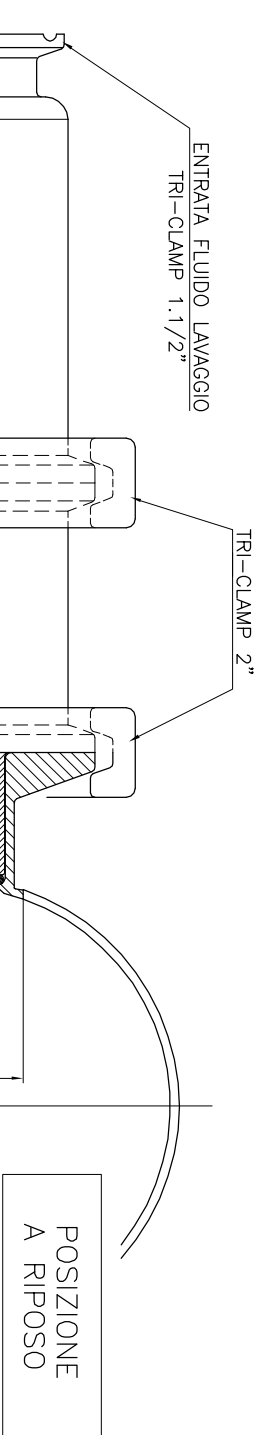


RT0355

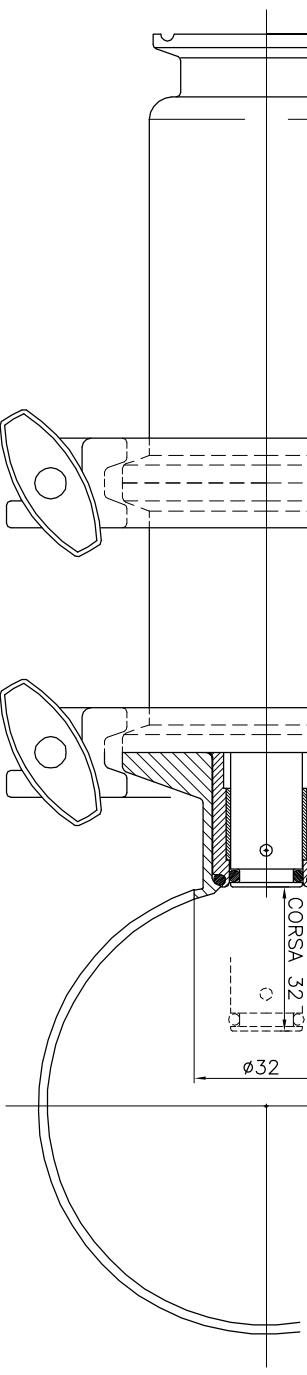
2x 3 mm + 1x 2 mm SLOTS						
PRESSURE (bar)	1	2	3	4	5	6
FLOW (L/min)	30	60	80	90	105	120



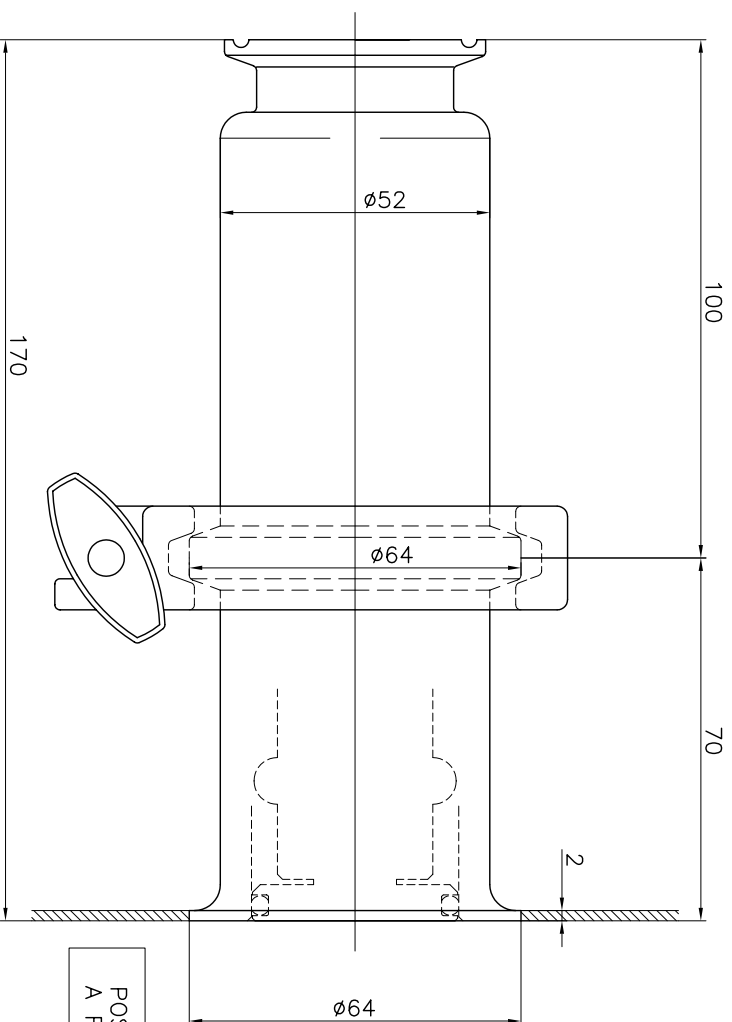
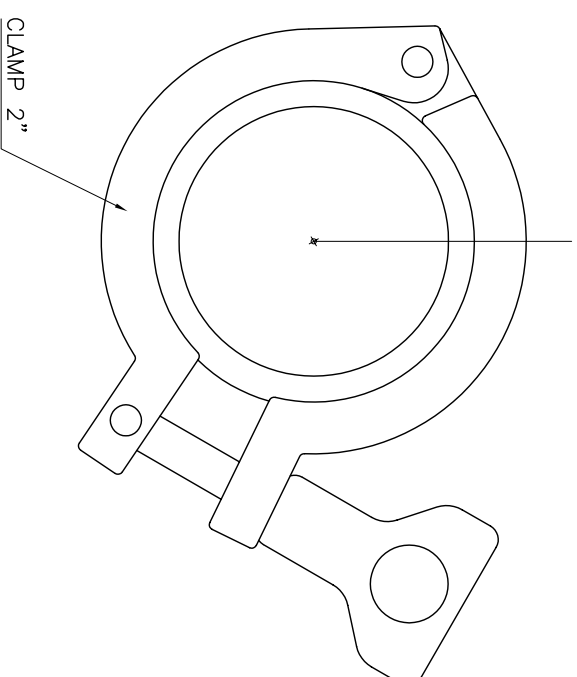
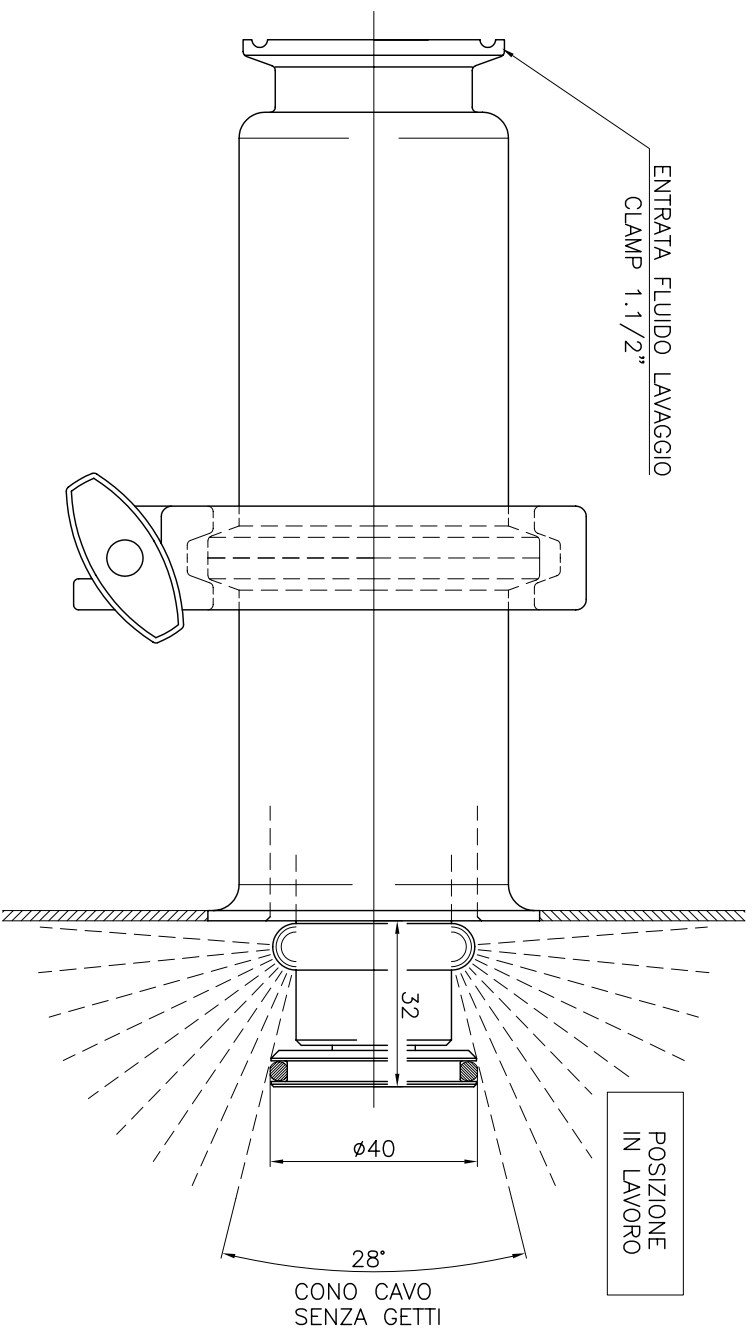
PRESSIONE BAR	PORTATA L/MIN.
1	4.5
2	6.4
3	7.8
4	9.0
5	10.1
6	11.1
7	11.9



PRESSIONE MINIMA PER TRASLAZIONE
COMPLETA 0.5 BAR



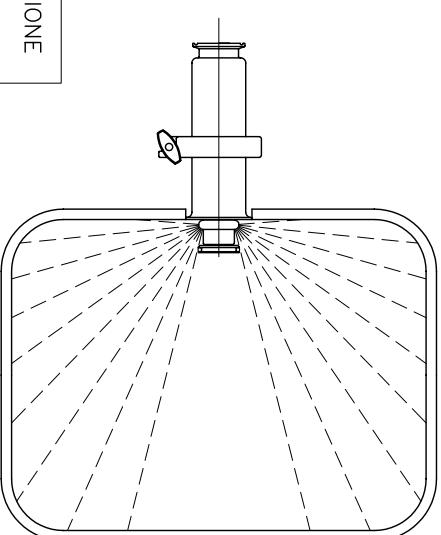
RUSSOSTA' (UNI 4600)	MODIFICA	1	2	3	4	5	 CLEANING HEADS MONTECHIO E. (RE) - ITALY
GREZZO	FOGLIO	xxxx					
~ = ø/	DATA	xx.xx.xx					
SGROSS: 32/	TOLLERANZE GENERALI classe m UNI-EN 22768/1	0+6	6+30	30+120	120+400	400+1000	
▽ = 32/	NOTE: file: RT 120 AB cm	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2
FINITURA 16/	MATERIALE: AISI 316						
▽▽ = 16/							
RETTIFICA 08/	DESCRIZIONE: UGELLO A SCOMPARSA CON TRASLAZIONE CON FLUIDO LAVAGGIO						
▽▽▽ = 08/							
	CODICE:	RT	120	AB			



POSIZIONE
A RIPOSO

PRESSIONE BAR	PORTATA L/MIN.
1	10
2	15
3	19
4	22
5	24
6	27
7	29
8	31

PRESSIONE MINIMA PER TRASLAZIONE
COMPLETA 0.5 BAR



RUGOSITA' (UNI 4600)	MODIFICA	1	2	3	4	5
FOGLIO	XXXX					
DATA	XX.XX.XX					
GREZZO						
~ = Ø	TOLLERANZE GENERALI classe m UNI-EN 22768/1					
SGROSS. 3/2	0÷6 6÷30 30÷120 120÷400 400÷1000 1000÷2000					
±0.1 ±0.2 ±0.3 ±0.5 ±0.8 ±1.2	NOTE:					
▽ = 3/2						
FINITURA 1/8	MATERIALE: AISI 316					
▽ = 1/8						
RTTIFICA 0.8	DESCRIZIONE: AUTOROTANTE A SCOMPARSA TRASLAZIONE FLUIDO LAVAGGIO					
▽ = 0.8						

CLEANING HEADS
MONTECCHIO E. (RE) - ITALY
DISIGN.: CR ICONTR.: DM
DATA: 27.10.06
MOD.

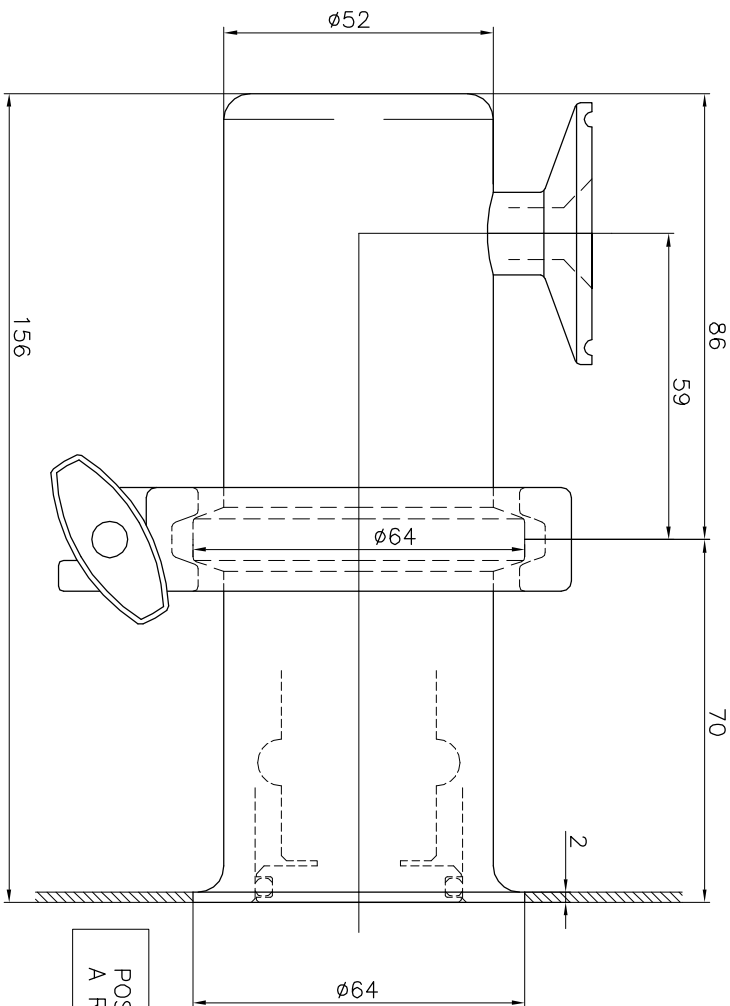
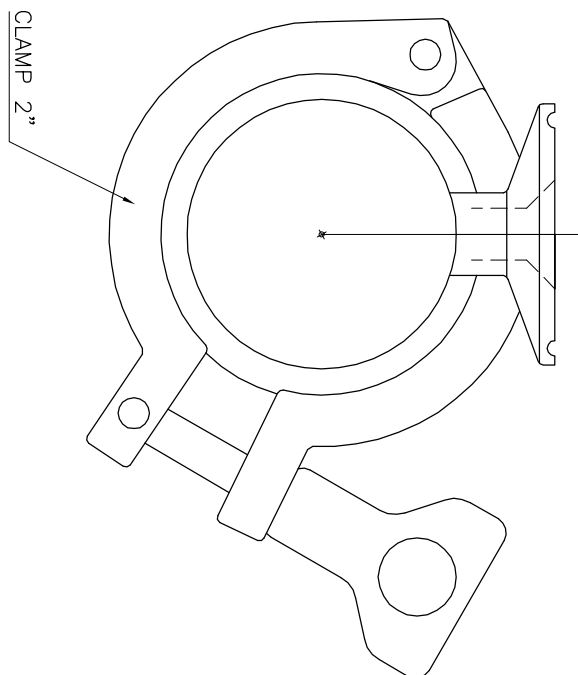
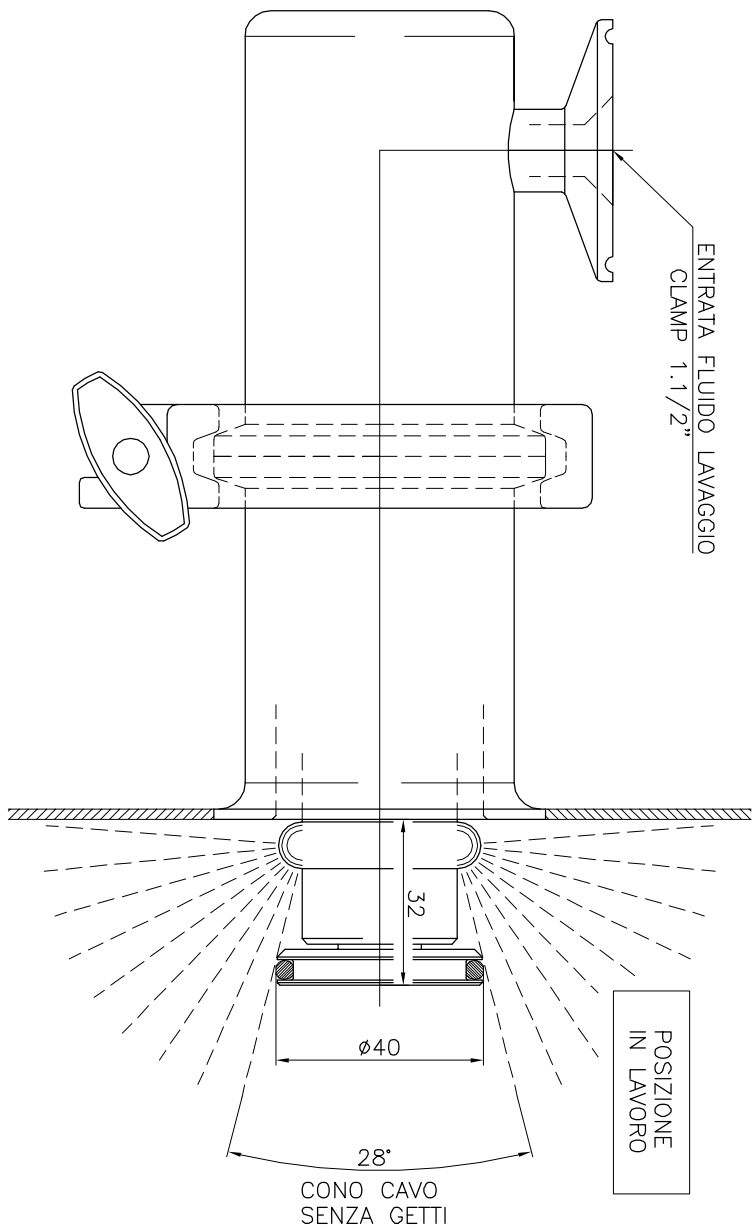
SCALA

1:1

A3

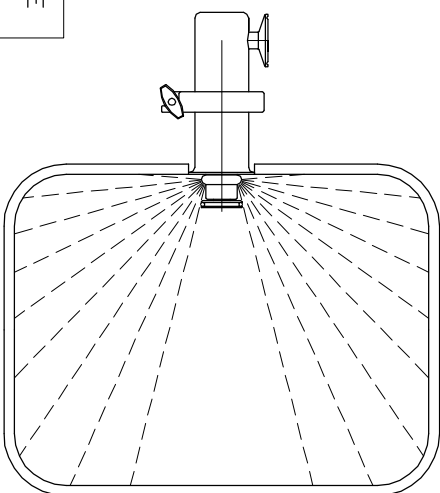
0

file: RT 111.AB.01 comm



PRESSIONE BAR	PORTATA L/MIN.
1	10
2	15
3	19
4	22
5	24
6	27
7	29
8	31

PRESSIONE MINIMA PER TRASLAZIONE
COMPLETA 0.5 BAR



RUGOSITA' (UNI 4600)	MODIFICA	1	2	3	4	5
FOGLIO	XXXX					
DATA	XX.XX.XX					
GREZZO	TOLLERANZE GENERALI classe m UNI-EN 22768/1					
$\sim = \varnothing$	0-6	6-30	30-120	120-400	400-1000	1000-2000
SGROSS.	± 0.1	± 0.2	± 0.3	± 0.5	± 0.8	± 1.2
$\nabla = \frac{3.2}{\sqrt{}}$	NOTE:					
FINITURA $1.6/\sqrt{}$	MATERIALE: AISI 316					
RETIFICA $0.8/\sqrt{}$						
$\nabla \nabla = \frac{0.8}{\sqrt{}}$						
DESCRIZIONE: AUTOROTANTE A SCOMPARSA TRASLAZIONE FLUIDO LAVAGGIO						
CODICE: RT 111.AA.01						



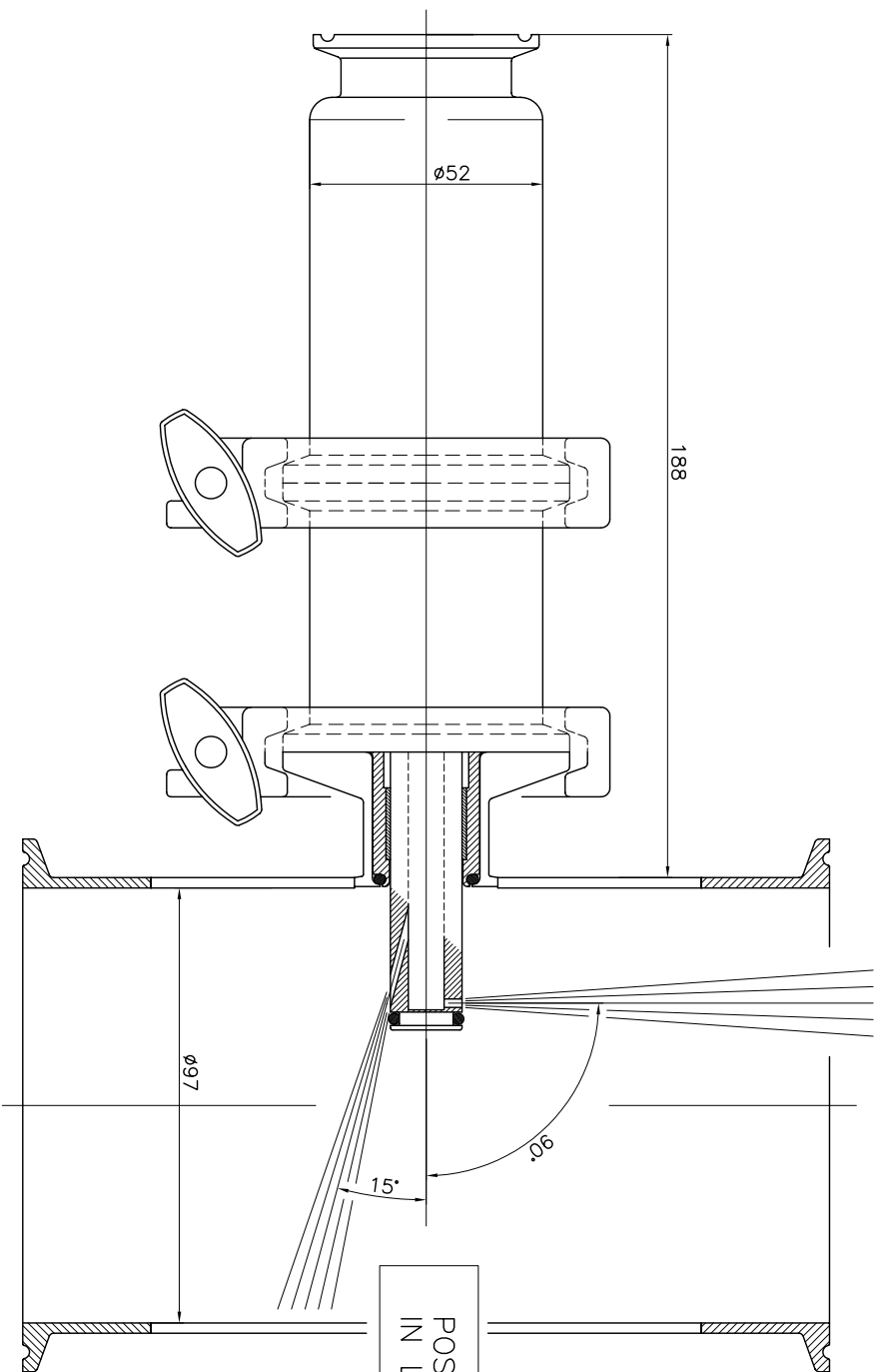
MONTECCHIO E. (RE) - ITALY

DISIGN.: CR ICONTR.: DM

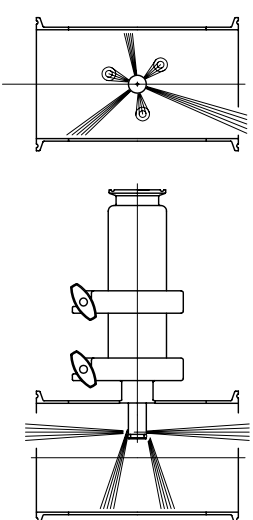
DATA: 27.10.06 MOD.

SCALA 1:1 A3 0

file: RT 111.AA.01 comm

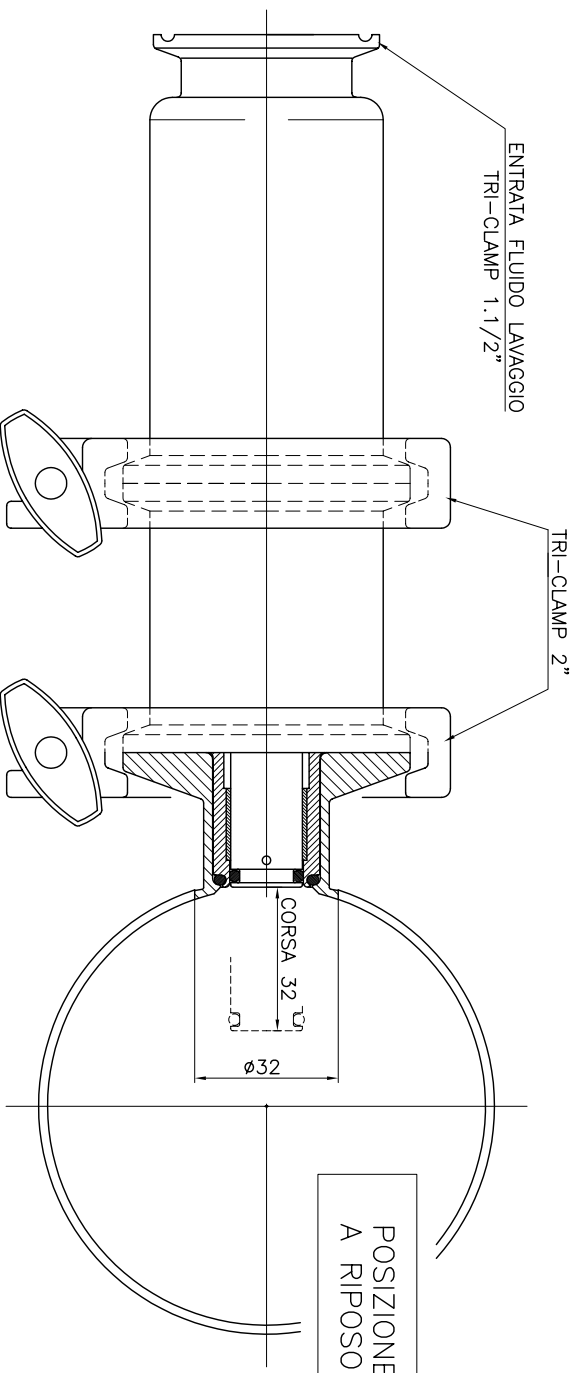


N° 3 UGELLI Ø 1.9 CON ANGOLO ASSIALE 15°
N° 3 UGELLI Ø 1.9 CON ANGOLO ASSIALE 90°
UGELLI RADIALMENTE ALTERNATI ED EQUIDISTANTI



PRESSIONE BAR	PORTATA L/MIN.
1	8.2
2	11.0
3	13.8
4	15.0
5	16.8
6	18.7
7	20.0

PRESSIONE MINIMA PER TRASLAZIONE
COMPLETA 1 BAR



RUOSSITA' (UNI 4600)	MODIFICA 1	2	3	4	5	 CLEANING HEADS MONTECCHIO E. (RE) - ITALY
GREZZO	FOGLIO	xxxx				
~ = Ø	DATA	xx.xx.xx				
SGROSS: 32/	TOLLERANZE GENERALI classe m UNI-EN 22768/1					
Δ = Δ	±0.1 ±0.2 ±0.3 ±0.8 ±1.2					DISIGN.: CR CONTR.: DM
FINITURA 16/	NOTE: file: RT 120 AB cm					DATA: 11.12.09
ΔΔ = Δ	MATERIALE: AISI 316					MOD.
RETIFICA 08/	DESCRIZIONE: UGELLO A SCOMPARSA CON TRASLAZIONE CON FLUIDO LAVAGGIO					SCALA 1:1
ΔΔΔ = Δ						A3 0
						CODICE: RT 130 AB

SERIE RW

RW SERIES

TESTINE AUTOROTANTI
LAVAGGIO VOLUMETRICO

SELFSPINNING HEADS
VOLUMETRIC WASHING

TESTINE DI LAVAGGIO VOLUMETRICHE
Disponibili in diverse versioni sia per alta che bassa pressione

VOLUMETRICAL CLEANING HEADS
Available in many versions for high and low pressure



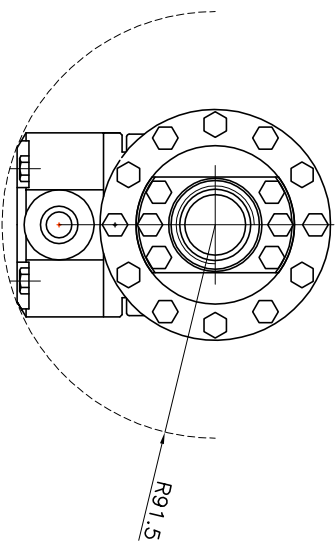
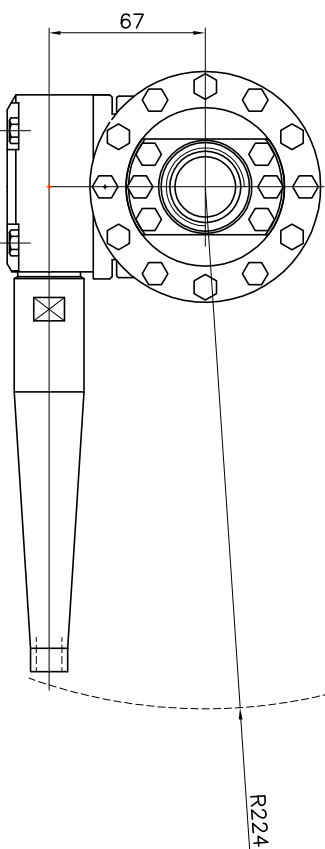
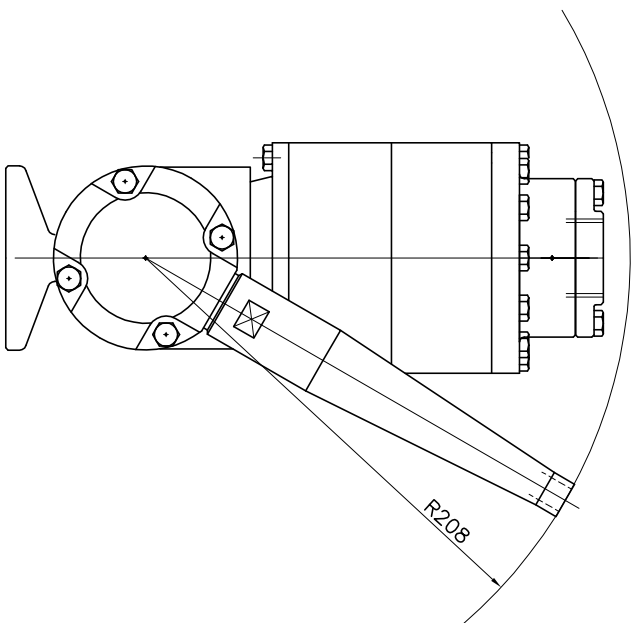
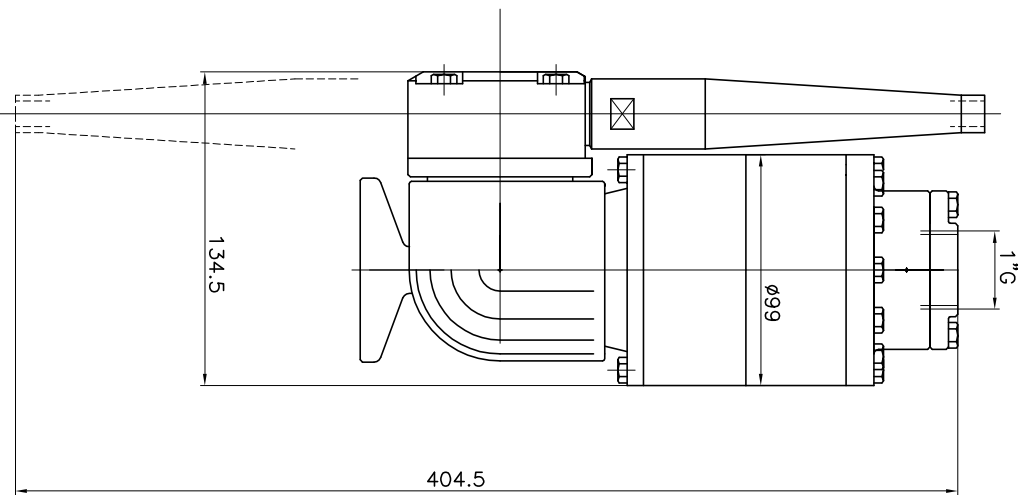
AQUAMOTOR

È un sistema di movimento autorotante per testine di lavaggio la cui velocità di rotazione dipende dai seguenti fattori: portata, posizione degli ugelli, viscosità dell'olio.

It's a selfspinning device for cleaning heads with spinning speed depending on: water flow, nozzle position, oil viscosity.



rOtojet



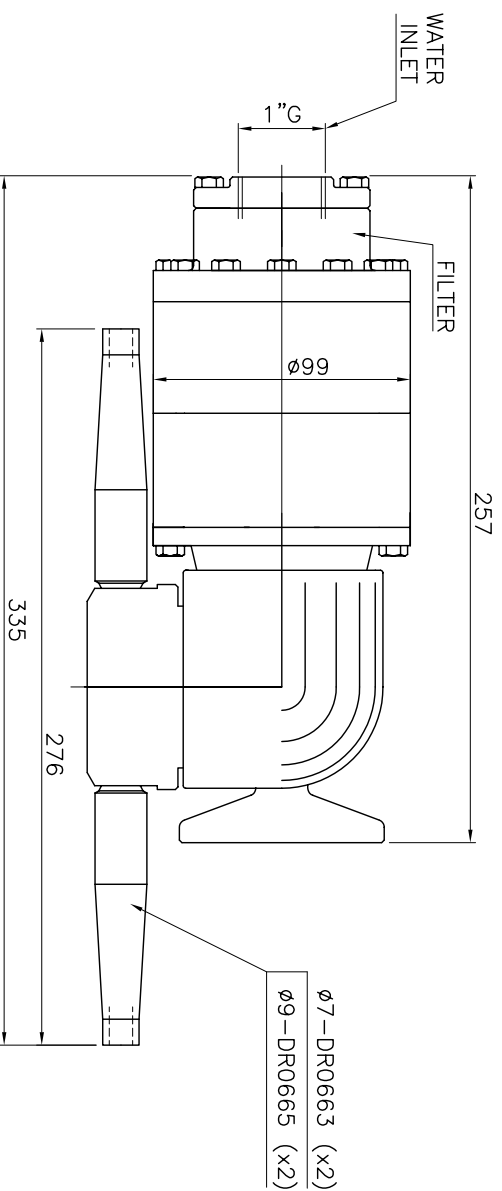
TECHNICAL DATA

O-RING	NBR – EPDM – VITON
SLIPPER	PTFE+CARBON FIBRE
BUSHING	ASI 316
FILTER	700 MICRON
NOZZLES POSITIONS	1
NOZZLES THREAD	3/4" G
OPERATING FLOW RANGE	60 – 200 L/min
OPERATING PRESSURE RANGE	5 – 30 bar
CENTER LINE MIN PASS THROUGH HOLE	448 mm
MANUAL MIN PASS THROUGH HOLE	240 mm
MAX OPERATING TEMPERATURE	90 °C
MATERIAL	INOX AISI 316
CONICAL GEARS	FIXED Z=59 ROTATING Z=61
MODULE	1
DIFFUSER SPEED SETTING OPENINGS	4
TESTING DIFFUSER OPENING	3-6-9-12
ROTATION SPEED	SEE CHART
FULL CYCLE	61 ROTATIONS
FULL CYCLE TIME	3.8 min AT 16 RPM
WEIGHT	9.6 KG

APERTURA DIFFUSORE DIFFUSER OPENING				PORTATA FLOW L/MIN	VELOCITA' ROTAZIONE CIR/MIN SPINNING SPEED RPM
3	3/6	3/6/9	3/6/9/12		
60	12	8	9		
80	16	12	9		
100		15	11		
120		18	13	11	
140			16	13	
160			18	14	
180				16	
200				16	

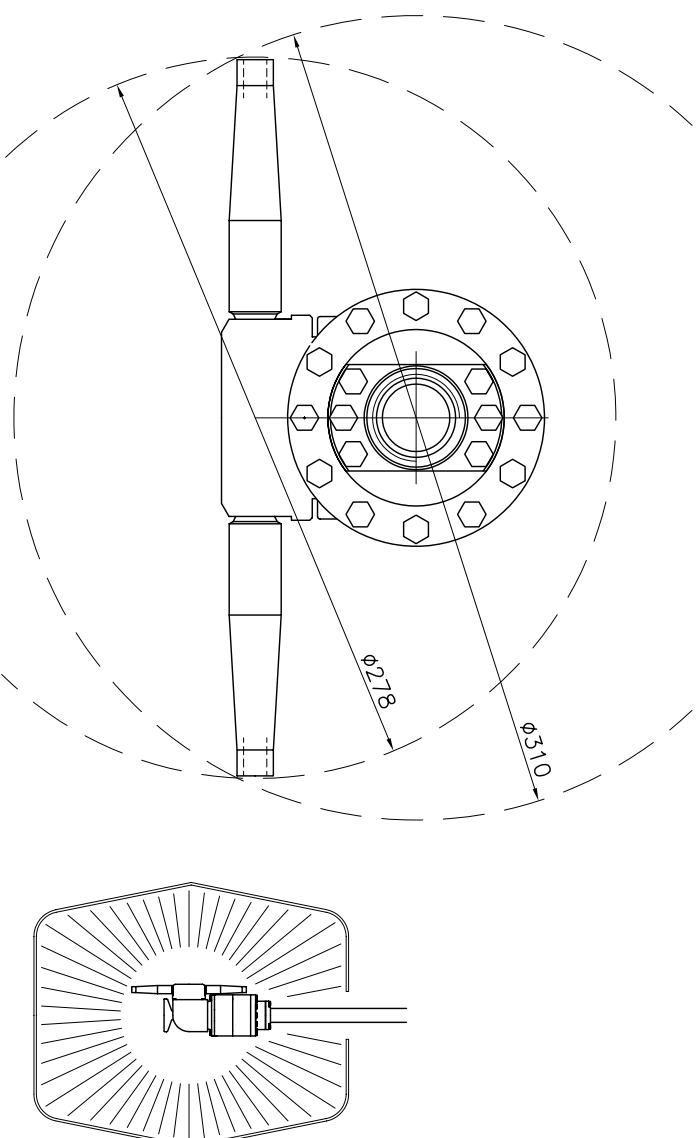
RUGOSITA' (UNI 4600)	MODIFICA 1	2	3	4	5
FOGLIO XXXX					
GREZZO	DATA XX.XX.XX				
TOLLERANZE GENERALI classe m UNI-EN 22768/1	0-6	6-30	30-120	120-400	400-1000
SGROSS. 3/2	± 0.1	± 0.2	± 0.3	± 0.5	± 0.8
VERSIONE 04 CON FILTRO	± 1.2				
FINITURA 1/2					
RETIFICA 0.8					
VELOCITA' ROTAZIONE CIR/MIN					
DESCRIZIONE: INSTALLATION DRAWING RW 240A					
TANK CLEANING VERSION					
CODICE: RW 240 A					

DIFFUSER OPENING				
3	3/6	3/6/9	3/6/9/12	
60	12	8		
80	16	12	9	
100		15	11	
120		18	13	11
140			16	13
160			18	14
180				16
200				16
SPINNING SPEED RPM				



TECHNICAL DATA

O.RING	NBR – EPDM – VITON
SLIPPER	PTFE+CARBON FIBRE
BUSHING	ALSI 316
FILTER	700 MICRON
NOZZLES POSITIONS	2
NOZZLES THREAD	3/8" G
TESTING NOZZLES	2 x 0000
OPERATING FLOW RANGE	60 – 200 L/min
TESTING FLOW	000 L/min
OPERATING PRESSURE RANGE	5 – 30 bar
TESTING PRESSURE	00 bar
CENTER LINE MIN PASS THROUGH HOLE	310 mm
MANUAL MIN PASS THROUGH HOLE	278 mm
MAX OPERATING TEMPERATURE	90 °C
MATERIAL	INOX ALSI 316
CONICAL GEARS	FIXED Z=59 ROTATING Z=61
MODULE	1
DIFFUSER SPEED SETTING OPENINGS	4
ROTATION SPEED	SEE CHART
FULL CYCLE	61 ROTATIONS
FULL CYCLE TIME	3.8 min AT 16 RPM
WEIGHT	9.6 KG

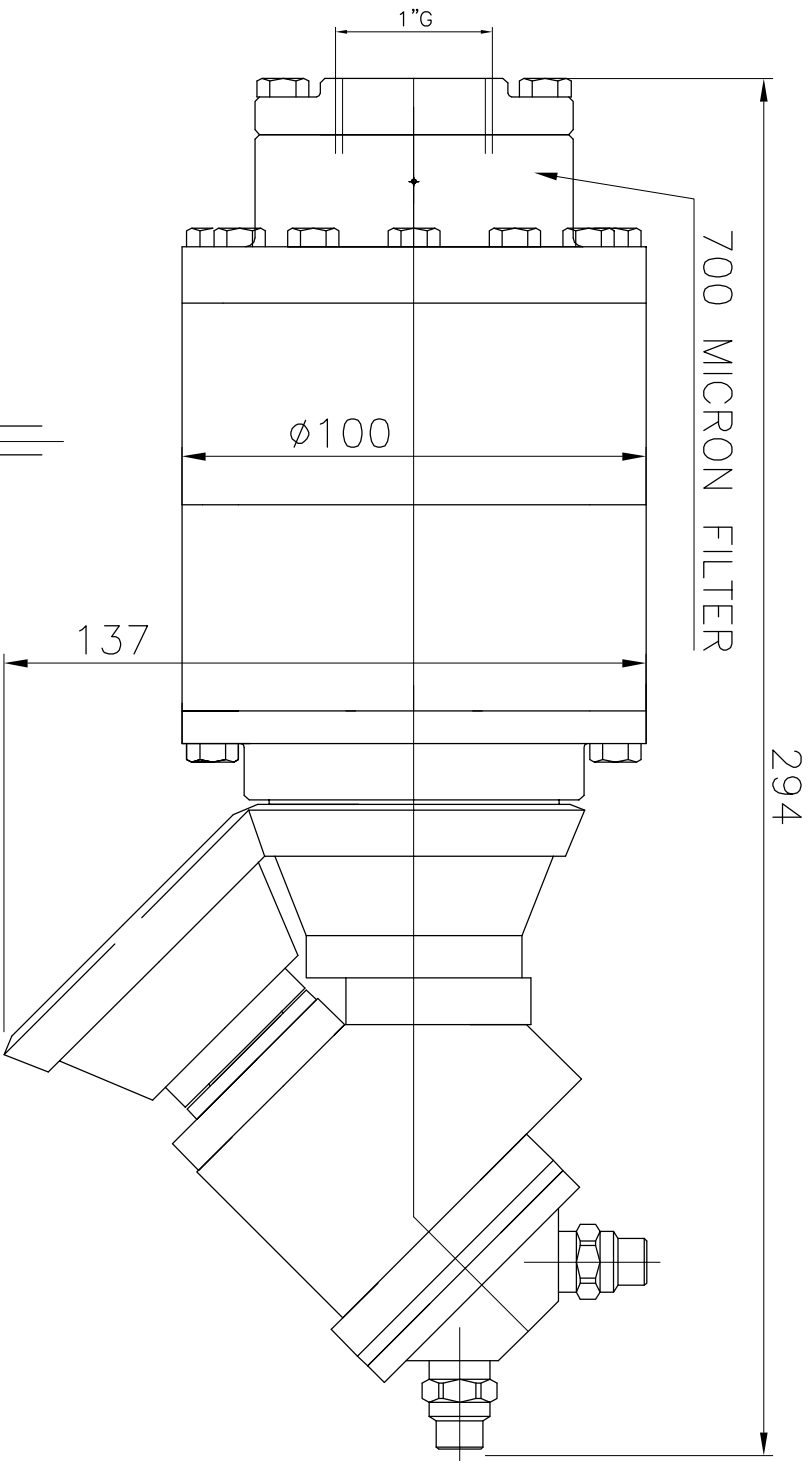


RUGOSITA' (UNI 4600)	MODIFICA	1	2	3	4	5
FOGLIO	XXXX					
DATA	XX.XX.XX					
GREZZO	TOLLERANZE GENERALI classe m UNI-EN 22768/1					
~ = 0/	0+6 6+30 30+120 120+400 400+1000 1000+2000					
SGROSS. 3/2/	±0.1 ±0.2 ±0.3 ±0.5 ±0.8 ±1.2					
Δ = 3/2/	NOTE:					
FINITURA 1.6/	DESCRIZIONE: RW 220 A					
∇∇ = 1.6/	APPLICATION DRAWING					
RETIFICA 0.8/						
∇∇∇ = 0.8/						



MONTECCHIO E. (RE) - ITALY
DISIGN.: CR ICONTR.: DM
DATA: 06.10.08 MOD.

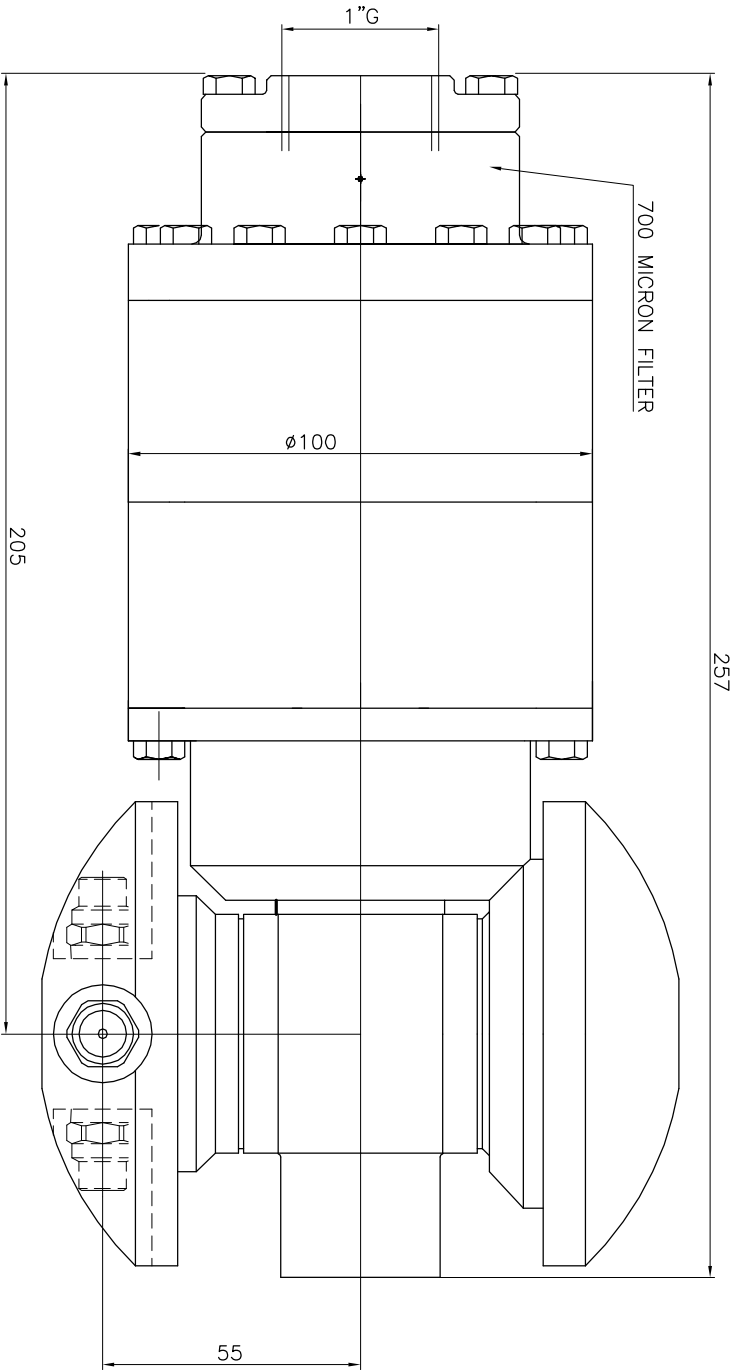
SCALA 1:3 A3 0
CODICE: RW 220 A



APERTURA DIFFUSORE DIFFUSER OPENING			
3	3/6	3/6/9	3/6/9/12
60	12	8	
80	16	12	9
100		15	11
120		18	13
140			16
160			18
180			14
200			16

PORTATA FLOW L/MIN	
60	12
80	16
100	20
120	24
140	28
160	32
180	36
200	40

VELOCITA' ROTAZIONE GIR/MIN SPINNING SPEED RPM	
3	16
6	32
9	48
12	64
16	80
20	96
24	112
28	128
32	144
36	160
40	176
44	192
48	208
52	224
56	240
60	256
64	272
68	288
72	304
76	320
80	336
84	352
88	368
92	384
96	400
100	416
104	432
108	448
112	464
116	480
120	496
124	512
128	528
132	544
136	560
140	576
144	592
148	608
152	624
156	640
160	656
164	672
168	688
172	704
176	720
180	736
184	752
188	768
192	784
196	800
200	816
204	832
208	848
212	864
216	880
220	896
224	912
228	928
232	944
236	960
240	976
244	992
248	1008
252	1024
256	1040
260	1056
264	1072
268	1088
272	1104
276	1120
280	1136
284	1152
288	1168
292	1184
296	1200
300	1216
304	1232
308	1248
312	1264
316	1280
320	1296
324	1312
328	1328
332	1344
336	1360
340	1376
344	1392
348	1408
352	1424
356	1440
360	1456
364	1472
368	1488
372	1504
376	1520
380	1536
384	1552
388	1568
392	1584
396	1600
400	1616
404	1632
408	1648
412	1664
416	1680
420	1696
424	1712
428	1728
432	1744
436	1760
440	1776
444	1792
448	1808
452	1824
456	1840
460	1856
464	1872
468	1888
472	1904
476	1920
480	1936
484	1952
488	1968
492	1984
496	2000
500	2016
504	2032
508	2048
512	2064
516	2080
520	2096
524	2112
528	2128
532	2144
536	2160
540	2176
544	2192
548	2208
552	2224
556	2240
560	2256
564	2272
568	2288
572	2304
576	2320
580	2336
584	2352
588	2368
592	2384
596	2400
600	2416
604	2432
608	2448
612	2464
616	2480
620	2496
624	2512
628	2528
632	2544
636	2560
640	2576
644	2592
648	2608
652	2624
656	2640
660	2656
664	2672
668	2688
672	2704
676	2720
680	2736
684	2752
688	2768
692	2784
696	2800
700	2816
704	2832
708	2848
712	2864
716	2880
720	2896
724	2912
728	2928
732	2944
736	2960
740	2976
744	2992
748	3008
752	3024
756	3040
760	3056
764	3072
768	3088
772	3104
776	3120
780	3136
784	3152
788	3168
792	3184
796	3200
800	3216
804	3232
808	3248
812	3264
816	3280
820	3296
824	3312
828	3328
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836	3360
840	3376
844	3392
848	3408
852	3424
856	3440
860	3456
864	3472
868	3488
872	3504
876	3520
880	3536
884	3552
888	3568
892	3584
896	3600
900	3616
904	3632
908	3648
912	3664
916	3680
920	3696
924	3712
928	3728
932	3744
936	3760
940	3776
944	3792
948	3808
952	3824
956	3840
960	3856
964	3872
968	3888
972	3904
976	3920
980	3936
984	3952
988	3968
992	3984
996	4000
1000	4016
1004	4032
1008	4048
1012	4064
1016	4080
1020	4096
1024	4112
1028	4128
1032	4144
1036	4160
1040	4176
1044	4192
1048	4208
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1056	4240
1060	4256
1064	4272
1068	4288
1072	4304
1076	4320
1080	4336
1084	4352
1088	4368
1092	4384
1096	4400
1100	4416
1104	4432
1108	4448
1112	4464
1116	4480
1120	4496
1124	4512
1128	4528
1132	4544
1136	4560
1140	4576
1144	4592
1148	4608
1152	4624
1156	4640
1160	4656
1164	4672
1168	4688
1172	4704
1176	4720
1180	4736
1184	4752
1188	4768
1192	4784
1196	4800
1200	4816
1204	4832
1208	4848
1212	4864
1216	4880
1220	4896
1224	4912
1228	4928
1232	4944
1236	4960
1240	4976
1244	4992
1248	5008
1252	5024
1256	5040
1260	5056
1264	5072
1268	5088
1272	5104
1276	5120
1280	5136
1284	5152
1288	5168
1292	5184
1296	5200
1300	5216
1304	5232
1308	5248
1312	5264
1316	5280
1320	5296
1324	5312
1328	5328
1332	5344
1336	5360
1340	5376
1344	5392
1348	5408
1352	5424
1356	5440
1360	5456
1364	5472
1368	5488
1372	5504
1376	5520
1380	5536
1384	5552
1388	5568
1392	5584
1396	5600
1400	5616
1404	5632
1408	5648
1412	5664
1416	5680
1420	5696
1424	5712
1428	5728
1432	5744
1436	5760
1440	5776
1444	5792
1448	5808
1452	5824
1456	5840
1460	5856
1464	5872
1468	5888
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1476	5920
1480	5936
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1488	5968
1492	5984
1496	6000
1500	6016
1504	6032
1508	6048
1512	6064
1516	6080
1520	6096
1524	6112
1528	6128
1532	6144
1536	6160
1540	6176
1544	6192
1548	6208
1552	6224
1556	6240
1560	6256
1564	6272
1568	6288
1572	6304
1576	6320
1580	6336
1584	6352
1588	6368
1592	6384
1596	6400
1600	6416
1604	6432
1608	6448
1612	6464
1616	6480
1620	6496
1624	6512
1628	6528
1632	6544
1636	6560
1640	6576
1644	6592
1648	6608
1652	6624
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1664	6672
1668	6688
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1688	6768
1692	6784
1696	6800
1700	6816
1704	6832
1708	6848
1712	6864
1716	6880
1720	6896
1724	6912
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1732	6944
1736	6960
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1772	7104
1776	7120
1780	7136
1784	7152
1788	7168
1792	7184
1796	7200
1800	7216
1804	7232
1808	7248
1812	7264
1816	7280
1820	7296
1824	7312
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1836	7360
1840	7376
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1848	7408
1852	7424
1856	7440
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1868	7488
1872	7504
1876	7520
1880	7536
1884	7552
1888	7568
1892	7584
1896	7600
1900	7616
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1936	7760
1940	7776
1944	7792
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1960	7856
1964	7872
1968	7888
1972	7904
1976	7920
1980	7936
1984	7952
1988	7968
1992	7984
1996	8000
2000	8016
2004	8032
2008	8048
2012	8064
2016	8080
2020	8096
2024	8112
2028	8128
2032	8144
2036	8160
2040	8176
2044	8192
2048	8208
2052	8224
2056	8240
2060	8256
2064	8272
2068	8288
2072	8304
2076	8320
2080	8336
2084	8352
2088	8368
2092	8384
2096	8400
2100	8416
2104	8432
2108	8448
2112	8464
2116	8480
2120	8496
2124	8512
2128	8528
2132	8544
2136	8560
2140	8576
2144	8592
2148	8608
2152	8624
2156	8640
2160	8656
2164	8672
2168	8688
2172	8704
2176	8720
2180	8736
21	

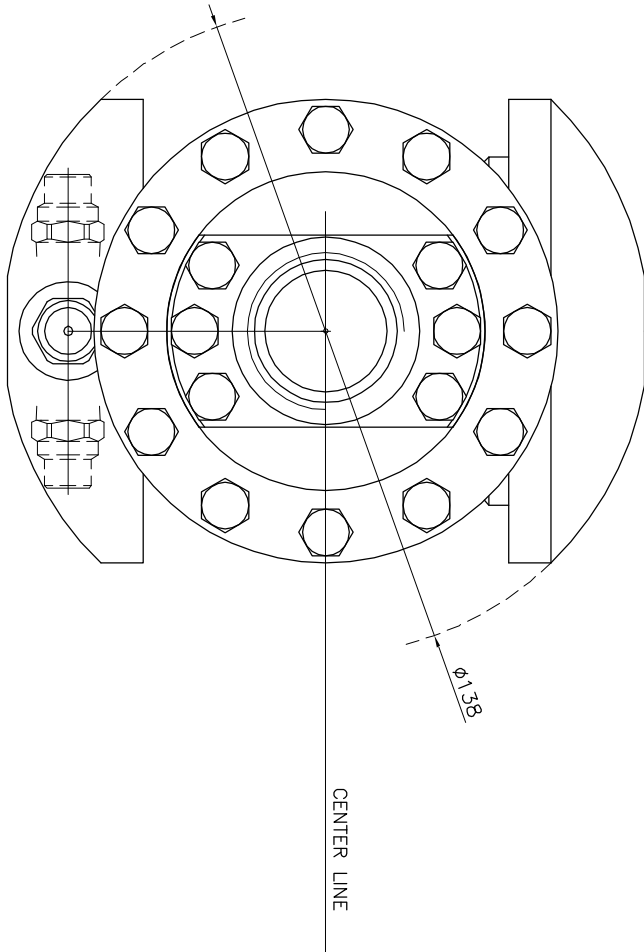


APERTURA DIFFUSORE DIFFUSER OPENING			
3	3/6	3/6/9	3/6/9/12
60	12	8	
80	16	12	9
100		15	11
120		18	13
140			16
160			18
180			14
200			16
PORTATA FLOW L/MIN			
60	12	8	
80	16	12	9
100		15	11
120		18	13
140			16
160			18
180			14
200			16
VELOCITA' ROTAZIONE GIR/MIN SPINNING SPEED RPM			
60	12	8	
80	16	12	9
100		15	11
120		18	13
140			16
160			18
180			14
200			16

PRESSIONE PRESSURE RANGE	5#200 BAR
PORTATA FLOW	60#200 L/MIN
TEMPERATURA MAX MAX TEMPERATURE	90°C
MATERIALE MATERIALS	ASI 316 INOX STAINLESS STEEL
PESO WEIGHT	9.6 KG

CICLO COMPLETO IN 73 GIRI
COMPLETES PATTERN IN 73 ROTATIONS

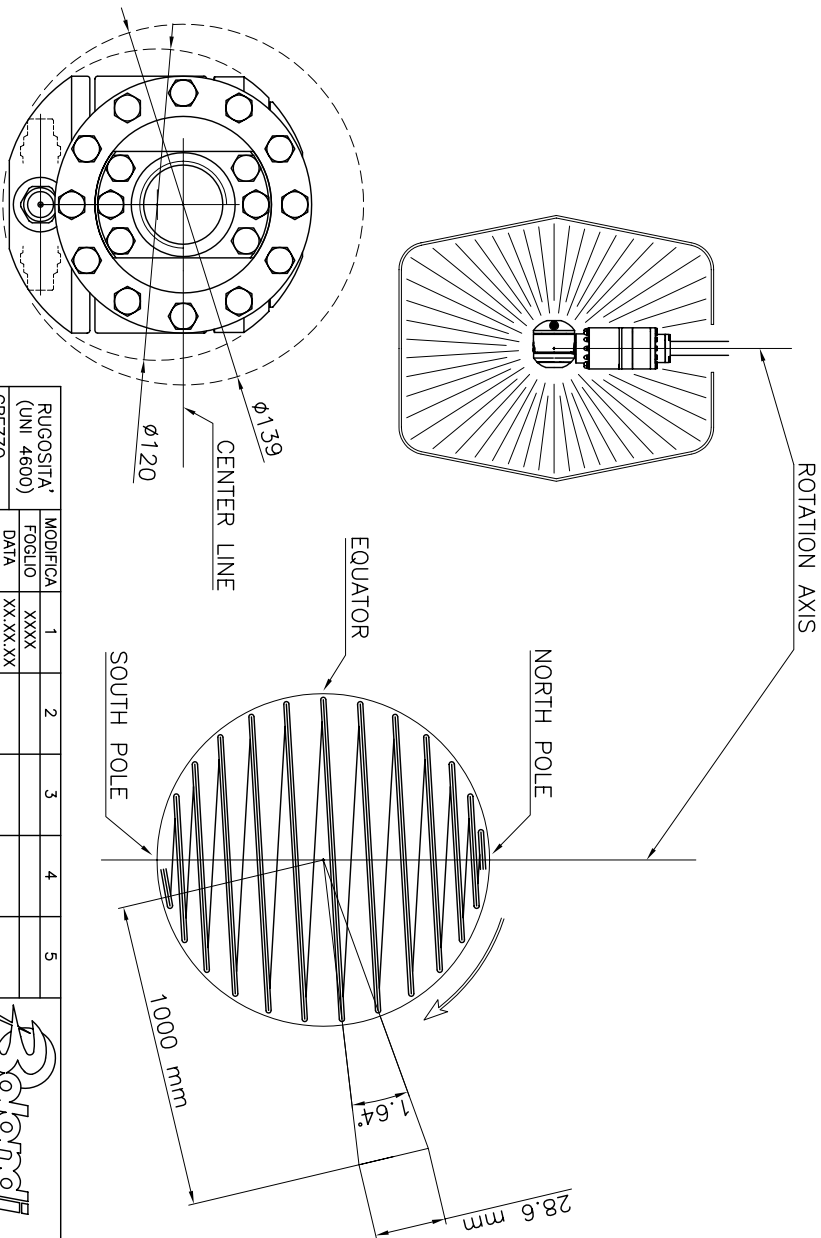
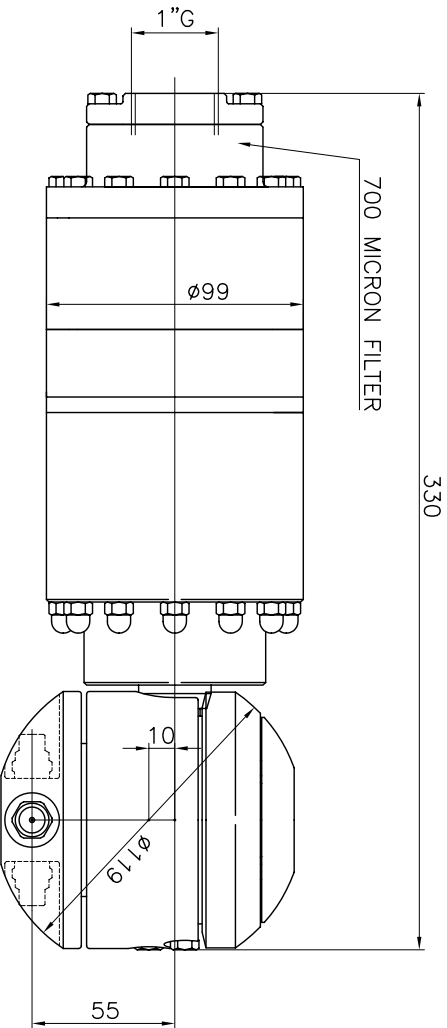
NUMERO UGELLI NOZZLES POSITIONS	4
FILETTO UGELLI NOZZLES THREAD	1/4"NPT



RUGOSITA' (UNI 4600)	MODIFICA	1	2	3	4	5
GREZZO	FOGLIO	XXXX				
DATA	XX.XX.XX					
TOLLERANZE GENERALI close m. UNI-EN 22768/1	0+6	6+30	30+120	120+400	400+1000	1000+2000
SGROSS.	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2
FINITURA	DATA	12.10.07				
RETTIFICA	MOD.					
VELOCITA' ROTAZIONE GIR/MIN SPINNING SPEED RPM	1:1	A3	0			
DESCRIZIONE: INSTALLATION DRAWING RW 200AU DN 150 ON CENTER LINE VERSION	CODICE:	RW 200AU				

DIFFUSER OPENING				
3	3/6	3/6/9	3/6/9/12	
60	22	15		
80	30	22	17	
100		28	20	
120		33	25	20
140			30	25
160			33	26
180				30
200				30
SPINNING SPEED RPM				

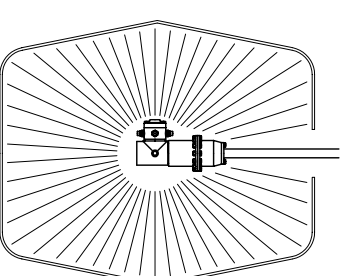
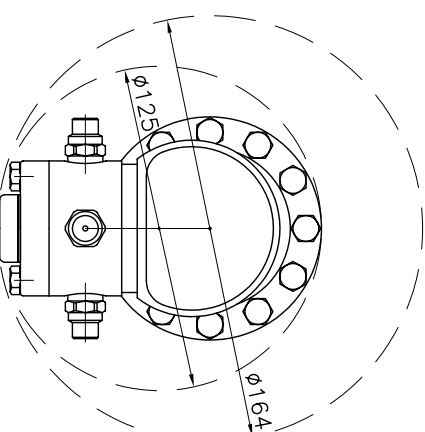
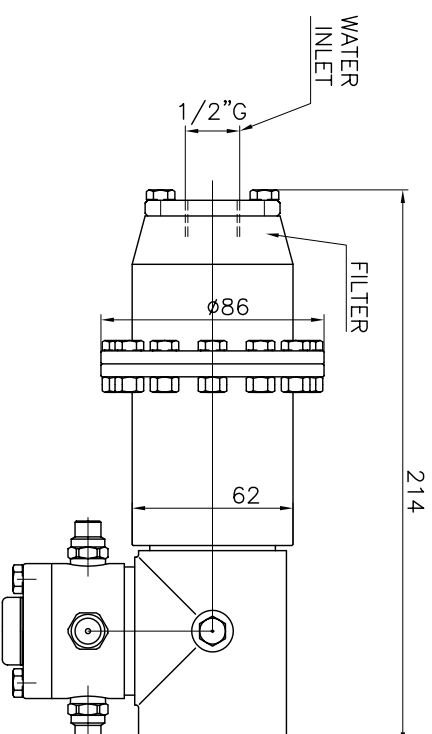
TECHNICAL DATA	
O.RING	NBR – EPDM – VITON
SLIPPER	PTFE+CARBON FIBRE
BUSHING	AISI 316
FILTER	700 MICRON
NOZZLES POSITIONS	2
NOZZLES THREAD	1/4"NPT
TESTING NOZZLES	0000
OPERATING FLOW RANGE	60 – 200 L/min
TESTING FLOW	000 L/min
OPERATING PRESSURE RANGE	5 – 200 bar
TESTING PRESSURE	000 bar
CENTER LINE MIN PASS THROUGH HOLE	139 mm
MANUAL MIN PASS THROUGH HOLE	120 mm
MAX OPERATING TEMPERATURE	90 °C
MATERIAL	INOX AISI 316
PARALLEL PITCH	1.64" FOR EACH ROTATION
PARALLEL PITCH AT 1m DISTANCE	28.6 mm
DIFFUSER SPEED SETTING OPENINGS	4
TESTING DIFFUSER OPENING	X/X/X/X
ROTATION SPEED	SEE CHART
FULL CYCLE	54 ROTATIONS
FULL CYCLE TIME	2.7 min AT 20 RPM
WEIGHT	9.6 KG



RUGOSITA' (UNI 4600)	MODIFICA	1	2	3	4	5	 CLEANING HEADS MONTECHIO E. (RE) - ITALY DISIGN.: CR CONTR.: DM DATA: 28.09.11 MOD.
FOGLIO	XXXX						
GREZZO	XX XX XX						
TOLLERANZE GENERALI classe m UNI-EN 22768/1	0÷6	6÷30	30÷120	120÷400	400÷1000	1000÷2000	
SGROSS.	± 0.1	± 0.2	± 0.3	± 0.5	± 0.8	± 1.2	
NOTE:							
FINITURA	DESCRIZIONE: RW 200 AF						
RETTIFICA	APPLICATION DRAWING						
SCALA	1:2						
CODICE:	RW 200AF						

DIFFUSER CODE – HOLES	
10	DF0401 – 6x1.50
15	DF0403 – 12x2.30
20	DF0403 – 12x2.30
25	DF0405 – 12x2.70
30	DF0406 – 12x3.00
35	DF0408 – 12x3.40
40	DF0419 – 18x3.20
45	DF0419 – 18x3.20
50	DF0420 – 18x3.40
55	DF0420 – 18x3.40
60	DF0420 – 18x3.40

TECHNICAL DATA	
O.RING	NBR – EPDM – VITON
SLIPPER	PTFE+CARBON FIBRE
BUSHING	AISI 316
FILTER	700 MICRON
NOZZLES POSITIONS	2 – 4
NOZZLES THREAD	1/4"NPT
TESTING NOZZLES	0 x 0000
OPERATING FLOW RANGE	10 – 60 L/min
TESTING FLOW	00 L/min
OPERATING PRESSURE RANGE	5 – 150 bar
TESTING PRESSURE	000 bar
CENTER LINE MIN PASS THROUGH HOLE	164 mm
MANUAL MIN PASS THROUGH HOLE	125 mm
MAX OPERATING TEMPERATURE	90 °C
MATERIAL	INOX AISI 316
CONICAL GEARS	FIXED Z=47 ROTATING Z=48
MODULE	1
ROTATION SPEED RANGE	15 TO 25 RPM
TESTING DIFFUSER CODE	DF0000 (SEE CHART)
FULL CYCLE	48 ROTATIONS
FULL CYCLE TIME	2.4 min AT 20 RPM
WEIGHT	3.2 KG



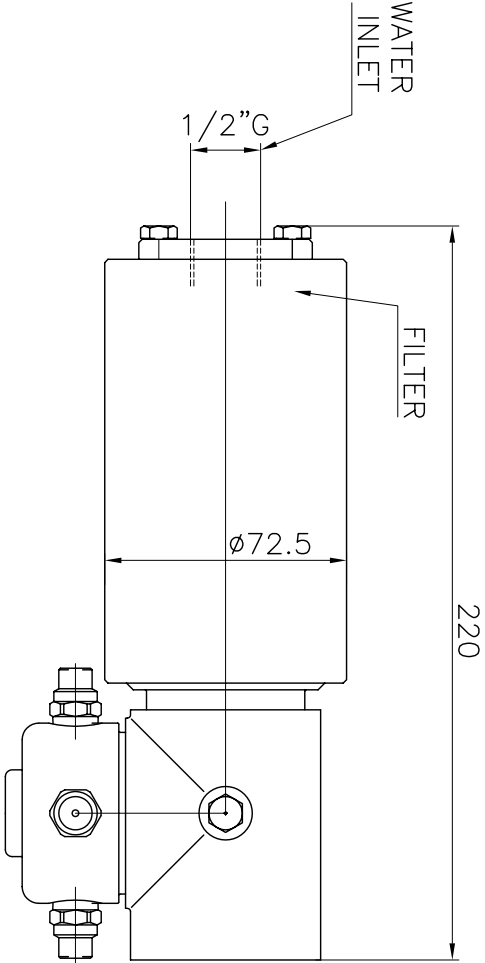
RUGOSITA' (UNI 4600)	MODIFICA	1	2	3	4	5
FOGLIO	XXXX					
DATA	XX.XX.XX					
GREZZO	TOLLERANZE GENERALI classe m UNI-EN 22768/1					
~ = Ø	0÷6	6÷30	30÷120	120÷400	400÷1000	1000÷2000
SGROSS.	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2
∇ = 3/2	NOTE:					
FINITURA 1.6/	DESCRIZIONE:	RW 186 A				
∇∇ = 1/	APPLICATION	DRAWING				
RETIFICA						
∇∇∇ = 0.8/						



MONTECCHIO E. (RE) – ITALY
DISIGN.: CR ICONTR.: DM
DATA: 06.10.08 MOD.

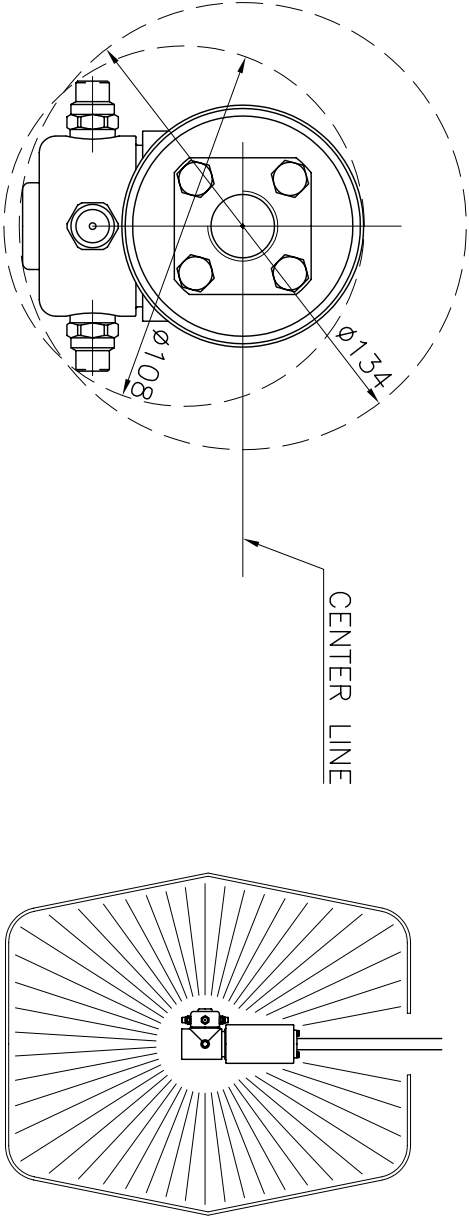
SCALA 1:3 A3 0
CODICE: RW 186 A

DIFFUSER CODE – HOLES	
10	DF0401 – 6x1.50
15	DF0403 – 12x2.30
20	DF0403 – 12x2.30
25	DF0405 – 12x2.70
30	DF0406 – 12x3.00
35	DF0408 – 12x3.40
40	DF0419 – 18x3.20
45	DF0419 – 18x3.20
50	DF0420 – 18x3.40
55	DF0420 – 18x3.40
60	DF0420 – 18x3.40



TECHNICAL DATA

O.RING	NBR – EPDM – VITON
SLIPPER	PTFE+CARBON FIBRE
BUSHING	AIISI 316
FILTER	700 MICRON
NOZZLES POSITIONS	2 – 4
NOZZLES THREAD	1/4"NPT
TESTING NOZZLES	0 x 0000
OPERATING FLOW RANGE	10 – 60 L/min
TESTING FLOW	00 L/min
OPERATING PRESSURE RANGE	5 – 150 bar
TESTING PRESSURE	000 bar
CENTER LINE MIN PASS THROUGH HOLE	134 mm
MANUAL MIN PASS THROUGH HOLE	108 mm
MAX OPERATING TEMPERATURE	90 °C
MATERIAL	INOX AIISI 316
CONICAL GEARS	FIXED Z=46 ROTATING Z=47
MODULE	1
ROTATION SPEED RANGE	15 TO 25 RPM
TESTING DIFFUSER CODE	DF0000 (SEE CHART)
FULL CYCLE	47 ROTATIONS
FULL CYCLE TIME	2.4 min AT 20 RPM
WEIGHT	3.9 KG



RUGOSITA' (UNI 4600)	MODIFICA	1	2	3	4	5
	FOGLIO					
	DATA					
	TOLLERANZE GENERALI classe m UNI-EN 22768/1					
GREZZO	0÷6	6÷30	30÷120	120÷400	400÷1000	1000÷2000
SGROSS.	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2
∇ = 3/2	NOTE:					
FINITURA	DESCRIZIONE: RW 190A APPLICATION DRAWING					
1.6/∇						
RETIFICA	CODICE: RW 190A					
0.8/∇						
∇∇ = 0.8/∇						



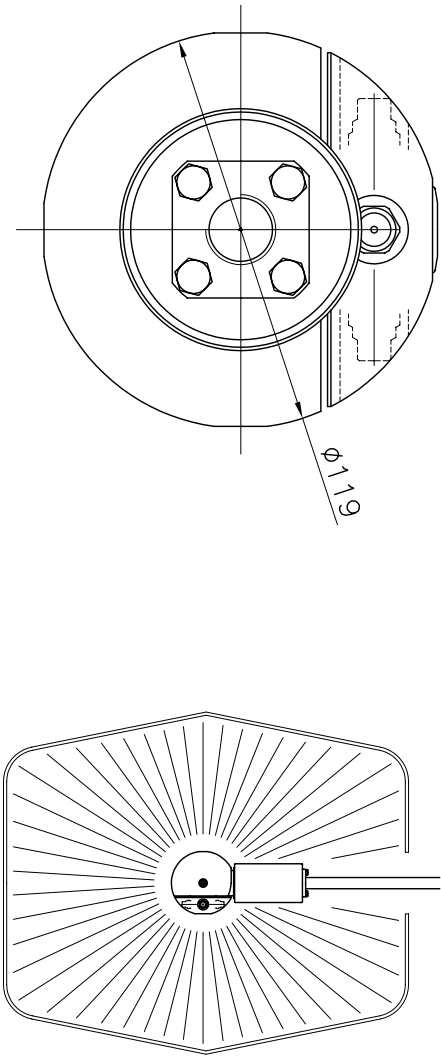
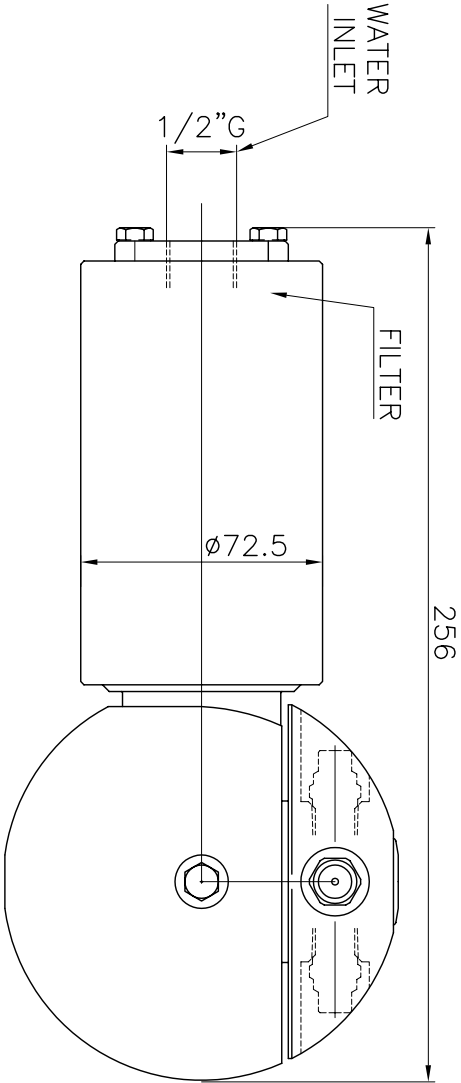
CLEANING HEADS
MONTECCHIO E. (RE) – ITALY

DISIGN.: CR I CONTR.: DM
DATA: 15.02.12 MOD.

SCALA 1:2 A4 O

DIFFUSER CODE – HOLES	
10	DF0401 – 6x1.50
15	DF0403 – 12x2.30
20	DF0403 – 12x2.30
25	DF0405 – 12x2.70
30	DF0406 – 12x3.00
35	DF0408 – 12x3.40
40	DF0419 – 18x3.20
45	DF0419 – 18x3.20
50	DF0420 – 18x3.40
55	DF0420 – 18x3.40
60	DF0420 – 18x3.40

TECHNICAL DATA	
O.RING	NBR – EPDM – VITON
SLIPPER	PTFE+CARBON FIBRE
BUSHING	ALSI 316
FILTER	700 MICRON
NOZZLES POSITIONS	2 – 4
NOZZLES THREAD	1/4"NPT
TESTING NOZZLES	0 x 0000
OPERATING FLOW RANGE	10 – 60 L/min
TESTING FLOW	00 L/min
OPERATING PRESSURE RANGE	5 – 150 bar
TESTING PRESSURE	000 bar
CENTER LINE MIN PASS THROUGH HOLE	120 mm
MANUAL MIN PASS THROUGH HOLE	120 mm
MAX OPERATING TEMPERATURE	90 °C
MATERIAL	INOX ALSI 316
CONICAL GEARS	FIXED Z=46 ROTATING Z=47
MODULE	1
ROTATION SPEED RANGE	15 TO 25 RPM
TESTING DIFFUSER CODE	DF0000 (SEE CHART)
FULL CYCLE	47 ROTATIONS
FULL CYCLE TIME	2.4 min AT 20 RPM
WEIGHT	4.4 KG



RUGOSITA' (UNI 4600)	MODIFICA	1	2	3	4	5
	FOGLIO					
GREZZO	DATA					
~ = √	TOLLERANZE GENERALI classe m UNI-EN 22768/1					
	0÷6	6÷30	30÷120	120÷400	400÷1000	1000÷2000
SGROSS. 3/2	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2
∇ = √	NOTE:					
FINITURA 1.6/	DESCRIZIONE: RW 190A TK VERSION APPLICATION DRAWING					
∇∇ = √						
RETTIFICA 0.8/	CODICE: RW 190A TK					
∇∇∇ = √						



CLEANING HEADS
MONTECCHIO E. (RE) – ITALY
DISEGN.: CR I CONTR.: DM
DATA: 17.02.12 MOD.

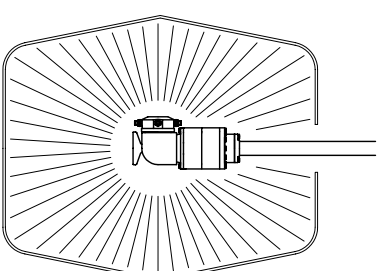
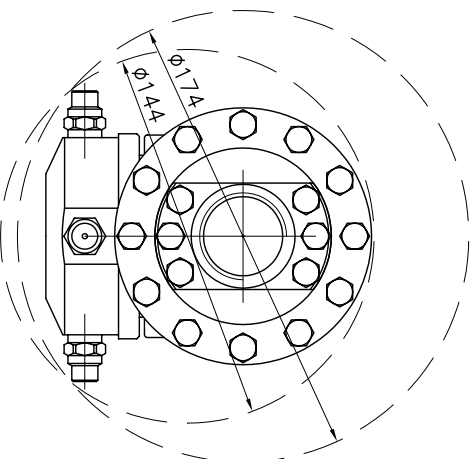
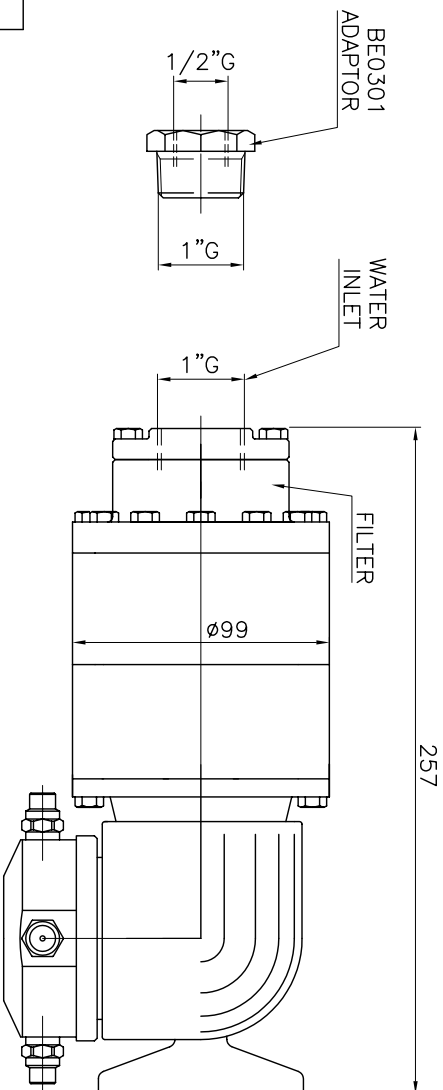
Scala 1:2 A4 O

DIFFUSER POSITION				
1	2	3	4	
15	13	6		
30		15	7	
45			12	7
60			16	10
SPINNING SPEED RPM				

FLOW L/MIN

TECHNICAL DATA

O.RING	NBR – EPDM – VITON
SLIPPER	PTFE+CARBON FIBRE
BUSHING	AINI 316
FILTER	700 MICRON
NOZZLES POSITIONS	2 – 4
NOZZLES THREAD	1/4"NPT
TESTING NOZZLES	0 x 0000
OPERATING FLOW RANGE	15 – 60 L/min
TESTING FLOW	00 L/min
OPERATING PRESSURE RANGE	5 – 200 bar
TESTING PRESSURE	000 bar
CENTER LINE MIN PASS THROUGH HOLE	174 mm
MANUAL MIN PASS THROUGH HOLE	144 mm
MAX OPERATING TEMPERATURE	90 °C
MATERIAL	INOX AISI 316
CONICAL GEARS	FIXED Z=59 ROTATING Z=61
MODULE	1
DIFFUSER SPEED SETTING POSITIONS	4
ROTATION SPEED	SEE CHART
FULL CYCLE	61 ROTATIONS
FULL CYCLE TIME	3.8 min AT 16 RPM
WEIGHT	9.6 KG



RUGOSITA' (UNI 4600)	MODIFICA	1	2	3	4	5
FOGLIO	XXXX					
DATA	XX.XX.XX					
GREZZO	TOLLERANZE GENERALI classe m UNI-EN 22768/1					
~ = Ø	0÷6 6÷30 30÷120 120÷400 400÷1000 1000÷2000					
SGROSS. 3/2	±0.1 ±0.2 ±0.3 ±0.5 ±0.8 ±1.2					
∇ = 3/2	NOTE:					
FINITURA 1.6/	DESCRIZIONE: RW 086 A					
∇∇ = 1/	APPLICATION DRAWING					
RETIFICA 0.8/						
∇∇∇ = 0.8/						

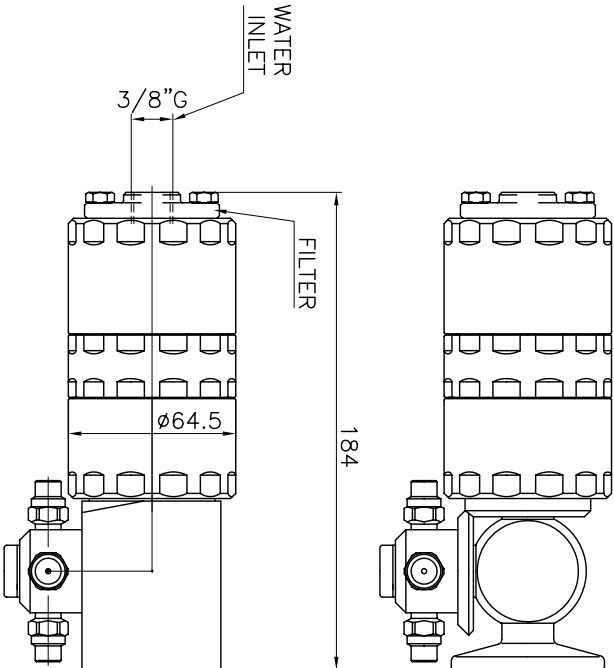


MONTECCHIO E. (RE) - ITALY
DISIGN.: CR I CONTR.: DM
DATA: 06.10.08 MOD.

SCALA 1:3 A3 0
CODICE: RW 086 A

DIFFUSER CODE – HOLES	
10	DF0210 – 6x1.50
15	DF0220 – 12x1.50
20	DF0222 – 12x1.90
25	DF0225 – 12x2.30
30	DF0226 – 12x2.70

TECHNICAL DATA	
O.RING	NBR – EPDM – VITON
SLIPPER	PTFE+CARBON FIBRE
BUSHING	AISI 316
FILTER	700 MICRON
NOZZLES POSITIONS	2 – 4
NOZZLES THREAD	1/8"NPT
TESTING NOZZLES	0 x 0000
OPERATING FLOW RANGE	10 – 30 L/min
TESTING FLOW	00 L/min
OPERATING PRESSURE RANGE	5 – 150 bar
TESTING PRESSURE	000 bar
CENTER LINE MIN PASS THROUGH HOLE	122 mm
MANUAL MIN PASS THROUGH HOLE	94 mm
MAX OPERATING TEMPERATURE	90 °C
MATERIAL	INOX AISI 316
CONICAL GEARS	FIXED Z=47 ROTATING Z=48
MODULE	1
ROTATION SPEED RANGE	15 TO 25 RPM
FULL CYCLE	48 ROTATIONS
FULL CYCLE TIME	2.4 min AT 20 RPM
WEIGHT	2.7 KG

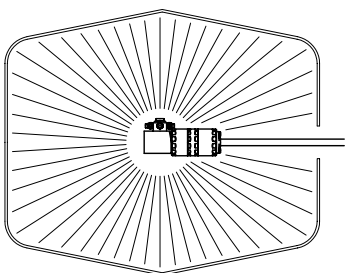
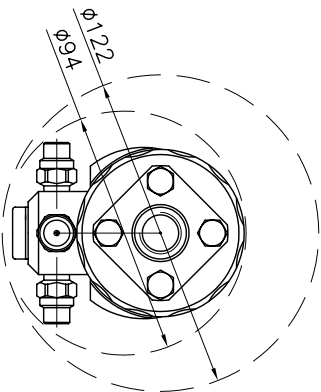


WITHOUT PROTECTION
SELF CLEANING

SENZA PROTEZIONE
AUTOPULENTE

WITH PROTECTION
STANDARD

CON PROTEZIONE
STANDARD



RUGOSITA' (UNI 4600)	MODIFICA	1	2	3	4	5
FOGLIO	XXXX					
DATA	XX.XX.XX					
GREZZO	TOLLERANZE GENERALI classe m UNI-EN 22768/1					
$\sim = \varnothing$	0÷6 6÷30 30÷120 120÷400 400÷1000 1000÷2000					
SGROSS.	±0.1 ±0.2 ±0.3 ±0.5 ±0.8 ±1.2					
$\nabla = 3/2$	NOTE:					
FINITURA 1.6/	DESCRIZIONE: RW 030 A					
$\nabla \nabla = 1/$	APPLICATION DRAWING					
RETIFICA						
$\nabla \nabla \nabla = 0.8/$						



MONTECCHIO E. (RE) – ITALY
DISIGN.: CR ICONTR.: DM
DATA: 06.10.08 MOD.

SCALA 1:3 A3 0
CODICE: RW 030 A

SERIE SW

SW SERIES

TESTINE AUTOROTANTI
LAVAGGIO VOLUMETRICO

SELFSPINNING HEADS
VOLUMETRIC WASHING

TESTINE DI LAVAGGIO SETTORIALI i

Idonee per lavare solamente una porzione del contenitore e per contenitori aperti

SECTOR CLEANING HEADS

Suitable for cleaning only a sector of the tank and for open tank



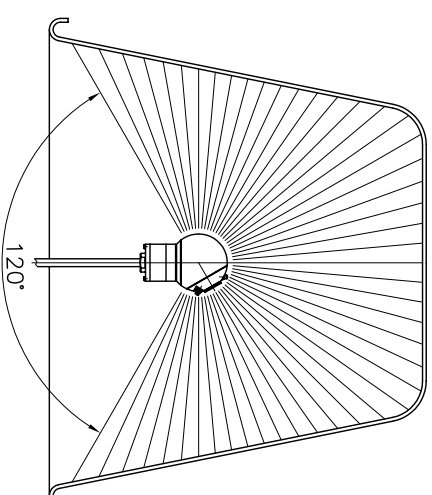
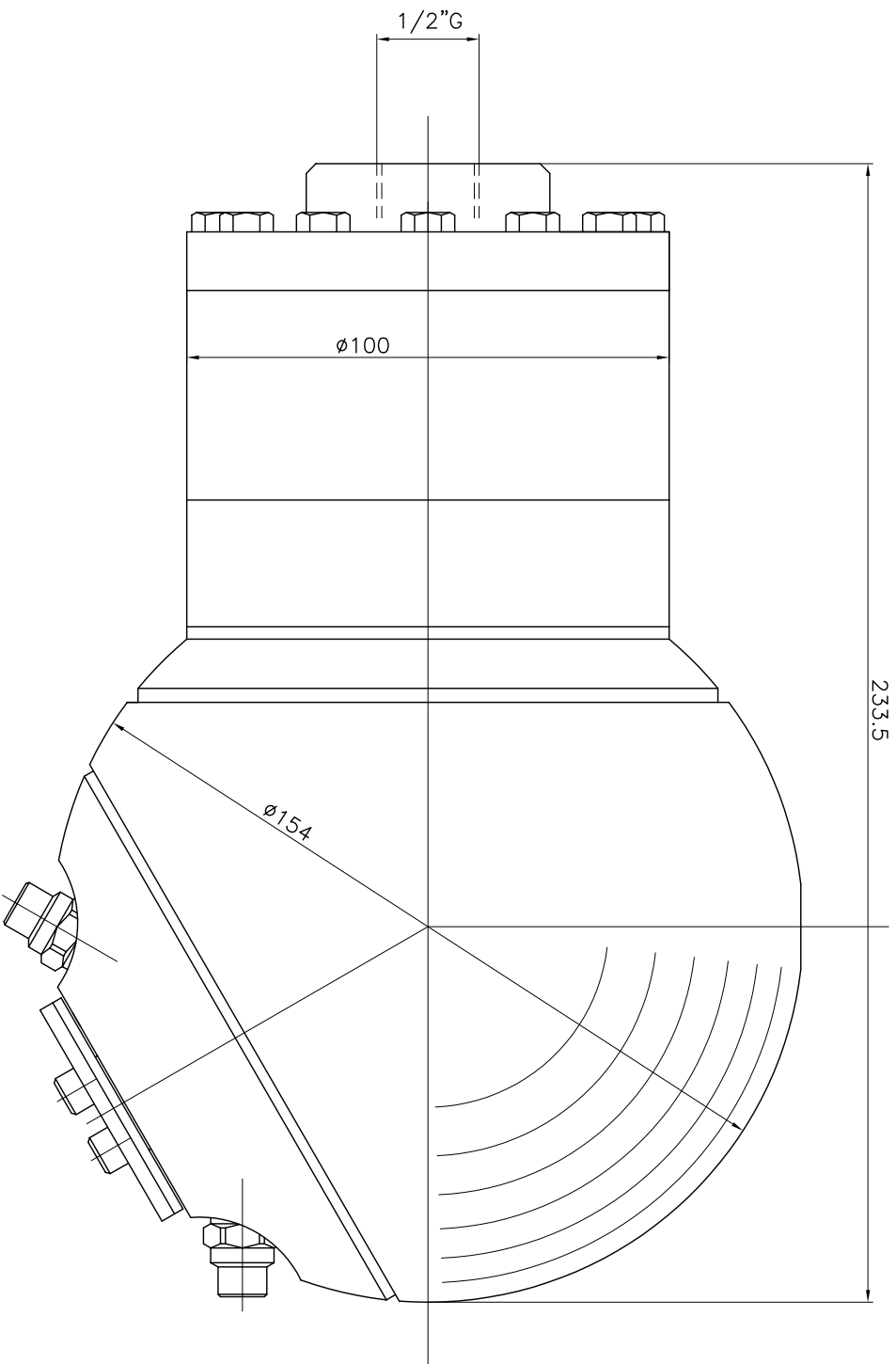
AQUAMOTOR

È un sistema di movimento autorotante per testine di lavaggio la cui velocità di rotazione dipende dai seguenti fattori: portata, posizione degli ugelli, viscosità dell'olio.

It's a selfspinning device for cleaning heads with spinning speed depending on: water flow, nozzle position, oil viscosity.



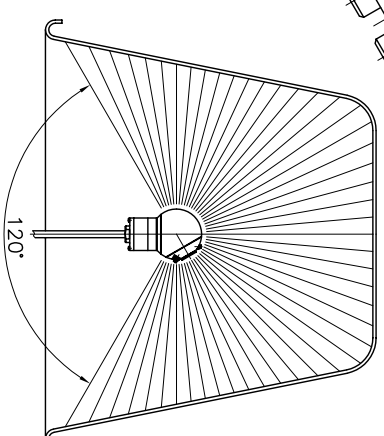
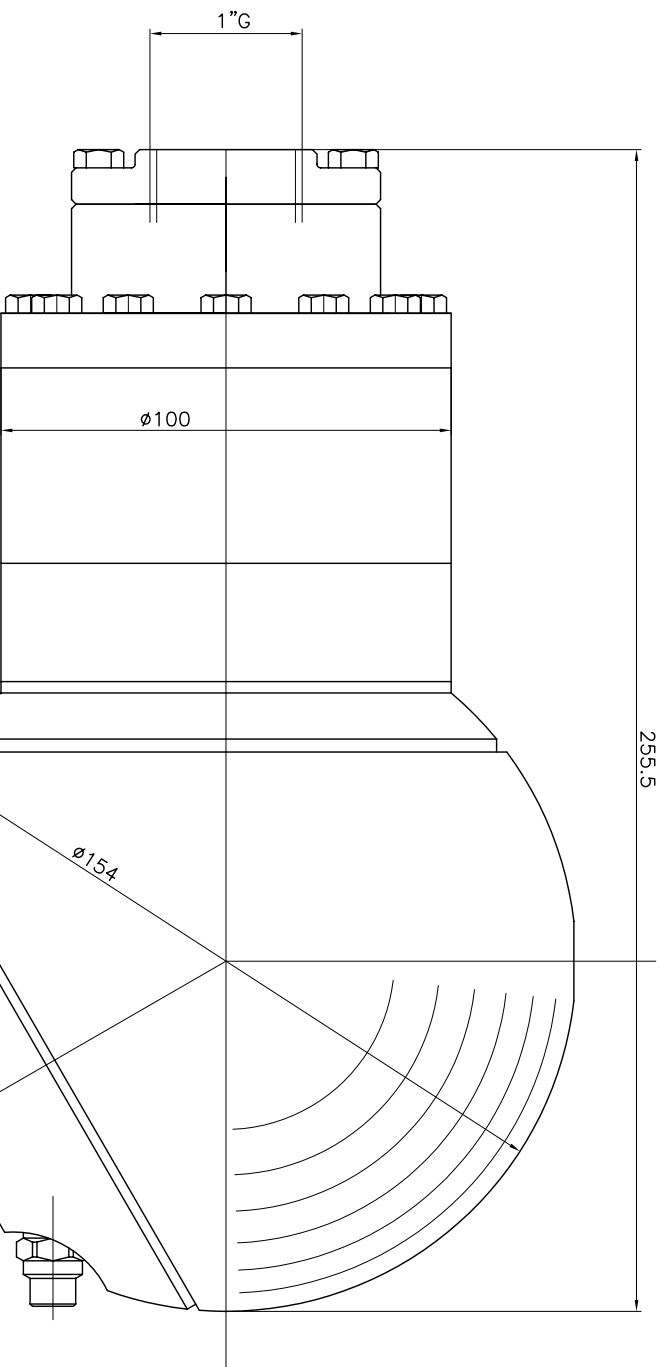
rOtojet



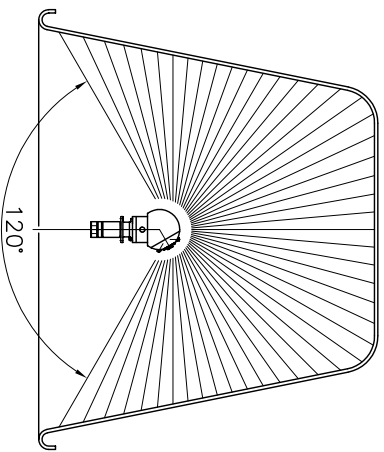
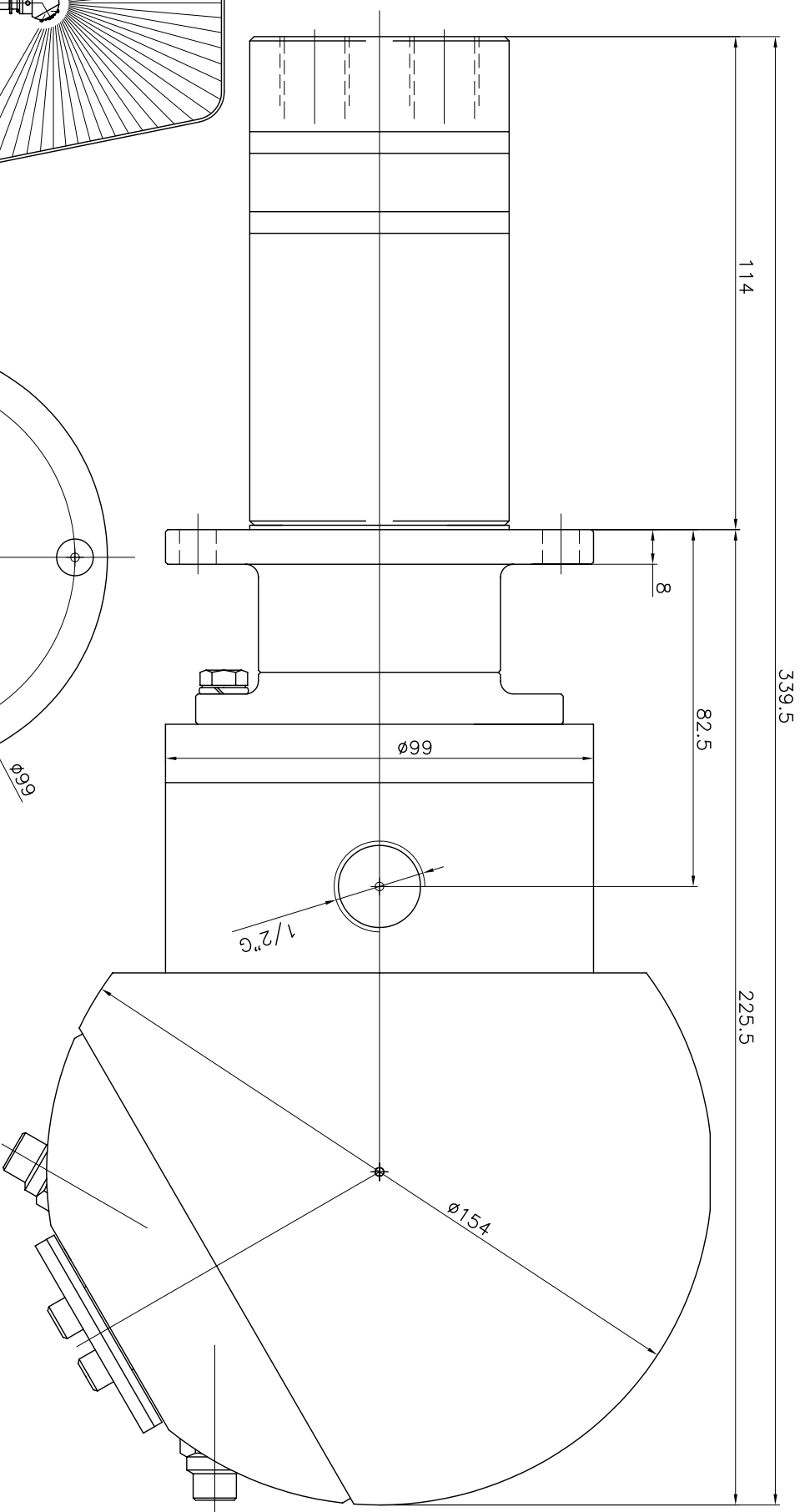
DATI TECNICI (I)	
temperatura max	90°C
pressione max	200 bar
portata max	30-120 l/min
velocità di rotazione	120 g/min
tempo ciclo breve	15"
tempo ciclo completo	30"
diametro minimo foro	160 mm
entrata	1/2"G
ugelli	1/4"G
massa	7.5 Kg

TECHNICAL DATA (GB)	
temperature max	90°C
pressure max	200 bar
flow max	30-120 l/min
spinning speed	120 g/min
short washing cycle time	15"
complete washing cycle time	30"
min. pass-through hole dia.	160 mm
water inlet	1/2"G-BSP-M
nozzle size	1/4"G-BSP-M
weight	7.5 Kg

RUGOSITÀ' (UNI 4600)	MODIFICA	1	2	3	4	5	 CLEANING HEADS MONTECCHIO E. (RE) - ITALY DISIGN.: CR ICONTR.: DM DATA: 02.08.01 MOD.
GREZZO	FOGLIO	XXXX					
~ = Ø	DATA	XX.XX.XX					
SGROSS. 3/2	TOLLERANZE GENERALI classe m	UNI-EN 22768/1					
▽ = 3/2	0÷6	6÷30 30÷120 120÷400 400÷1000 1000÷2000					
FINITURA 1/8	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2	
▽▽ = 1/8	NOTE: VERSIONE 06						
RETTIFICA 0,8/	MATERIALE:						
▽▽▽ = 0,8/	DESCRIZIONE: AQUAMOTOR SECTOR PER LAVACASSONETTI 120°						
	CODICE: SW 120SF						
	SCALA 1:1 A4 O						

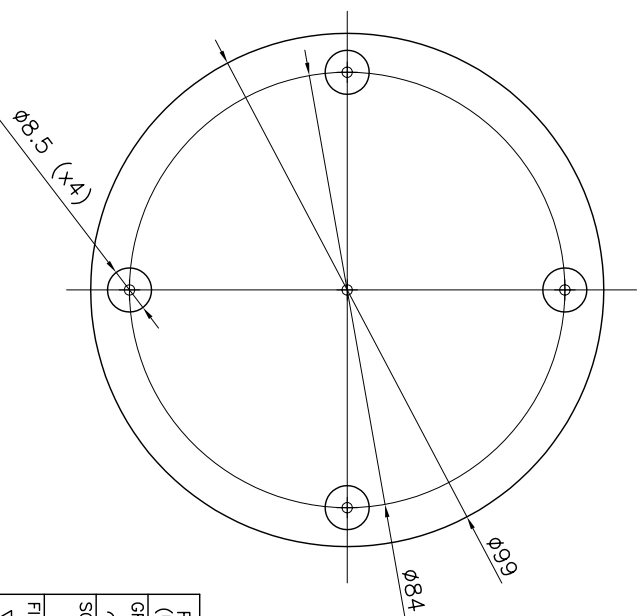


RUGGOSTA* (UNI 4600)	MODIFICA	1	2	3	4	5
GREZZO	FOLGIO	XXXX				
~ = Ø	DATA	XX.XX.XX				
SGROSS: 3 3/2	TOLLERANZE	GENERALE classe m UNI-EN 22768/1				
± 0,1	± 0,2	± 0,3	± 0,5	± 0,8	± 1,2	
± 0,1	NOTE: VERSIONE 06					
FINITURA 1,6/						
VV = V						
RETTIFICA 0,8/						
VVV = V						
DESCRIZIONE:	AQUAMOTOR SECTOR					
	PER LAVACASSONETTI 120°					
CODICE:	SW 120CF					
1:1	A4	O				
DISEGNA: CR	CONTR: DM					
DATA: 02.08.01	MOD					
Scala						

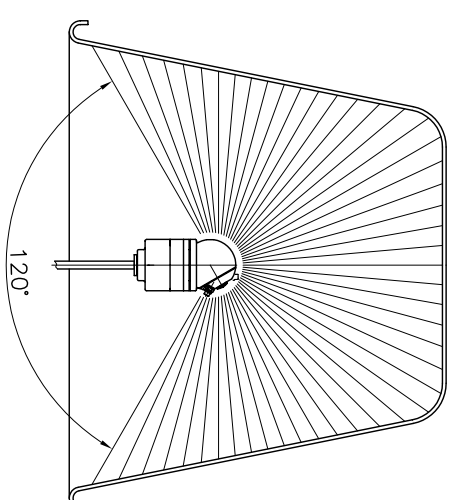
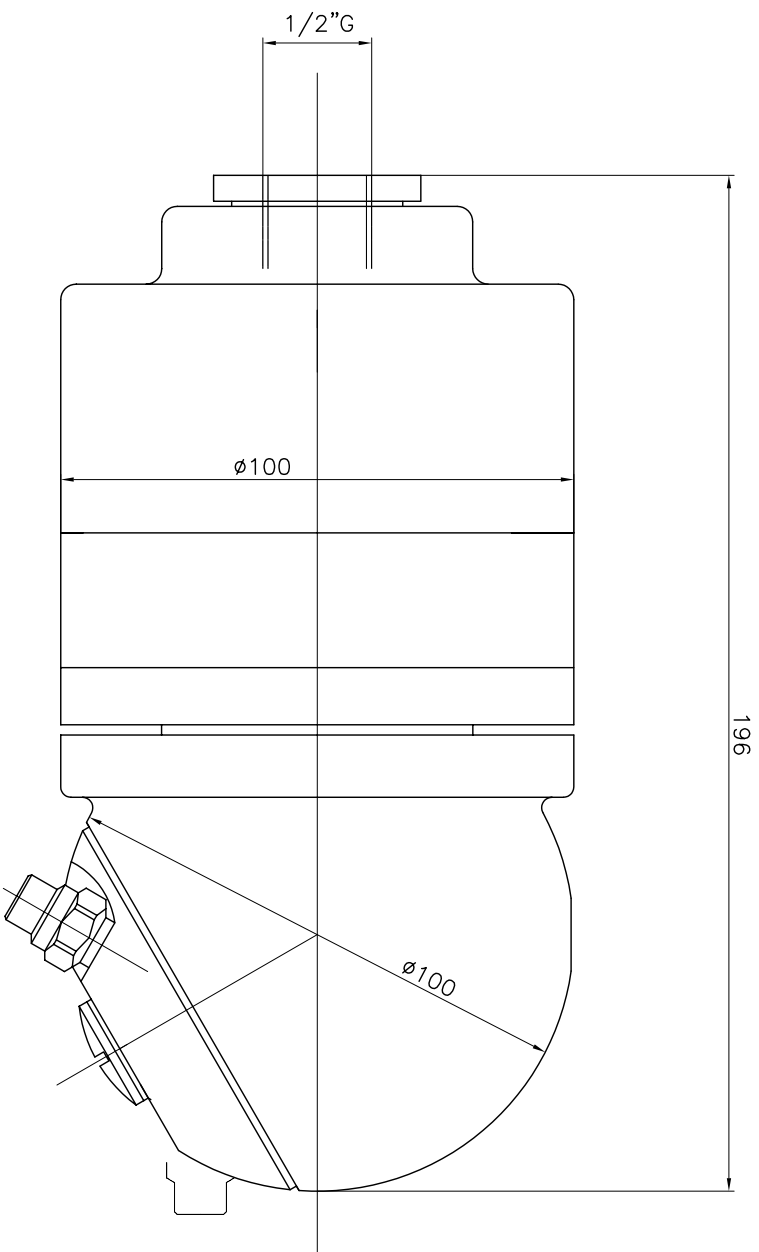


CARATTERISTICHE TECNICHE

PORTATA MAX 120 L/MIN.
PRESSIONE MAX 200 BAR.
VELOCITA' DI ROTAZIONE 120 GIRI/MIN. (REGOLABILE)
AMPIEZZA SETTORE NON LAVATO 120°
MOTORE IDRAULICO 32 CC
PORTATA OLIO 3.8 L/MIN. (REGOLABILE)
PRESSIONE OLIO 20 BAR MAX.
PESO 8.0 KG.

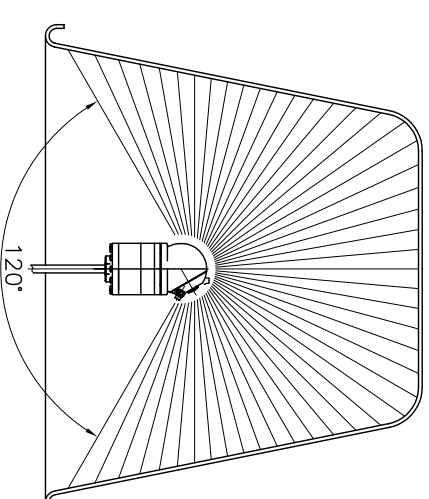
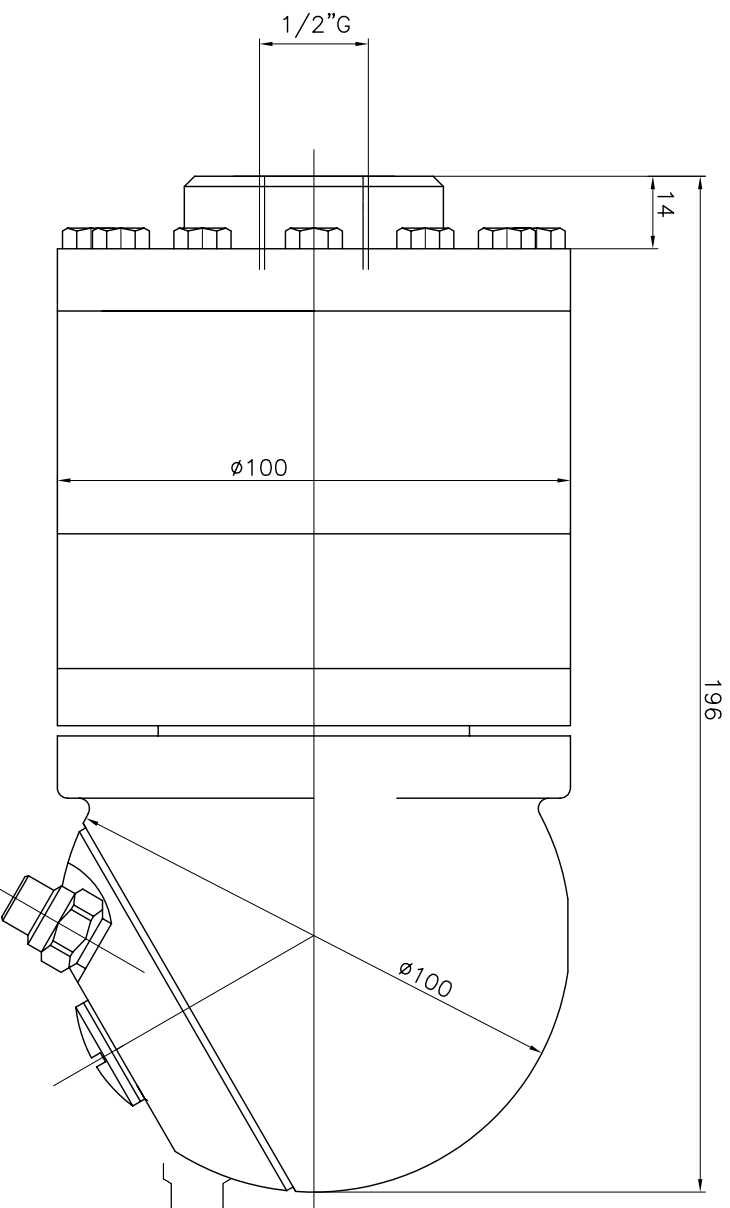


RUGOSITA' (UNI 4600)	MODIFICA	1	2	3	4	5	 CLEANING HEADS MONTECCHIO E. (RE) - ITALY DISIGN.: CR ICONTR.: DM DATA: 23.03.04 MOD.
GREZZO	FOGLIO						
~ = Ø	TOLLERANZE GENERALI classe m UNI-EN 22768/1						
SGROSS. 3/2	0÷6 ±0.1 ±0.2 ±0.3 ±0.5 ±0.8 ±1.2						
∇ = 3/2	NOTE:						
FINITURA 1/8	MATERIALE:						
∇∇ = 1/8							
RETTIFICA 0.8	DESCRIZIONE: COMPLESSIVO						
∇∇∇ = 0.8							
	CODICE:						
	SW120HY						



PRESSIONE MAX. MAX. PRESSURE	200 BAR			
UGELLI MOTORE MOTOR NOZZLES	6x ø2.1 MM	6x ø2.1 MM	6x ø2.4 MM	6x ø2.4 MM
PORTATA FLOW	30 L/MIN	45 L/MIN	30 L/MIN	45 L/MIN
VELOCITA' ROTAZIONE SPEED	102 GIRI/MIN RPM	152 GIRI/MIN RPM	84 GIRI/MIN RPM	131 GIRI/MIN RPM
PESO WEIGHT	2.6 KG			

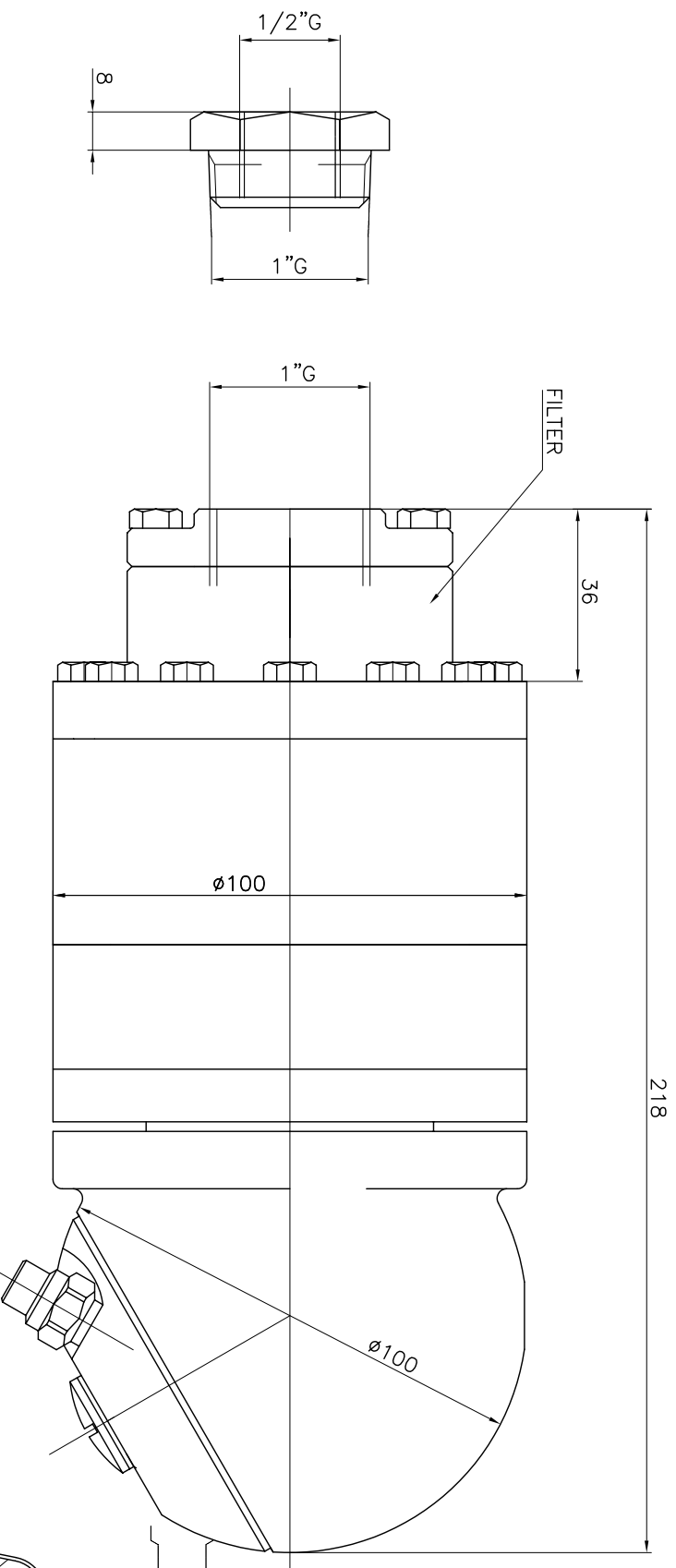
RUGOSITA' (UNI 4600)	MODIFICA	1	2	3	4	5
GREZZO	FOGLIO	xxxx				
DATA	xx.xx.xx					
TOLLERANZE GENERALI classe m UNI-EN 22768/1	0-6	6-30	30-120	120-400	400-1000	1000-2000
SGROSS. $\sim = \varnothing$	± 0.1	± 0.2	± 0.3	± 0.5	± 0.8	± 1.2
NOTE: VERSIONE 03						
FINITURA $\nabla = \sqrt[3]{2}$	MATERIALE:	ALLUMINIO				
$\nabla \nabla = \sqrt[1.6]{}$						
RETIFICA $0.8/\sqrt[0.8]{}$	DESCRIZIONE:AQUAMOTOR SECTOR					
$\nabla \nabla \nabla = \sqrt[0.8]{}$	INCLINATO PER LAVACASSONETTI 120° ϕ 100					
						
CLEANING HEADS						
MONTECCHIO E. (RE) - ITALY						
DISIGN: CR1 CONTR.: DM						
DATA: 02.08.01		MOD.				
SCALA		1:1	A3	O		
CODICE:		SW 060 LC				



DATI TECNICI	
temperatura max	90°C
pressione max	200 bar
portata	15-60 l/min
velocità di rotazione	120 g/min
tempo ciclo breve	15"
tempo ciclo completo	30"
diametro minimo foro	100 mm
entrata	1/2"G
ugelli	1/8"G
massa	5,5 Kg

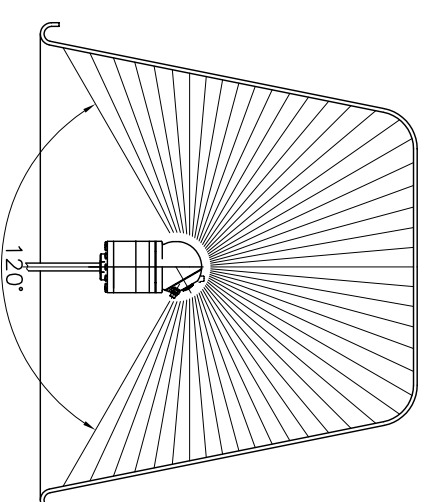
TECHNICAL DATA	
temperature max	90°C
pressure max	200 bar
flow	15-60 l/min
spinning speed	120 g/min
short washing cycle time	15"
complete washing cycle time	30"
min. pass-through hole dia.	100 mm
water inlet	1/2"G-BSP-M
nozzle size	1/8"G-BSP-M
weight	5,5 Kg

RUGOSITÀ' (UNI 4600)	MODIFICA	1	2	3	4	5
GREZZO	FOGLIO	XXXX				
~ = Ø	DATA	XX.XX.XX				
SGROSS. 3/2	TOLLERANZE GENERALI classe m	UNI-EN 22768/1				
▽ = 3/2	0-6	6-30	30-120	120-400	400-1000	1000-2000
	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2
	NOTE: VERSIONE 06					
FINITURA 1,6/	MATERIALE: INOX + ALLUMINIO					
▽▽ = 1/6	DESCRIZIONE: AQUAMOTOR SECTOR					
RETIFICA 0,8/	VERSIONE PER CONTENITORI APERTI					
▽▽▽ = 0,8/	CONO CAVO NON LAVATO 120°					
	OPEN CONTAINERS VERSION					
	NON WASHED HOLLOW CONE 120°					
	CODICE:	1:1	A3	O		
	SCALA	18.04.02				
	DISIGN.: CR I CONTR.: DM					
	MONTECCHIO E. (RE) - ITALY					
	DATE: 18.04.02					
	MOD.					
	SW060A-SF					

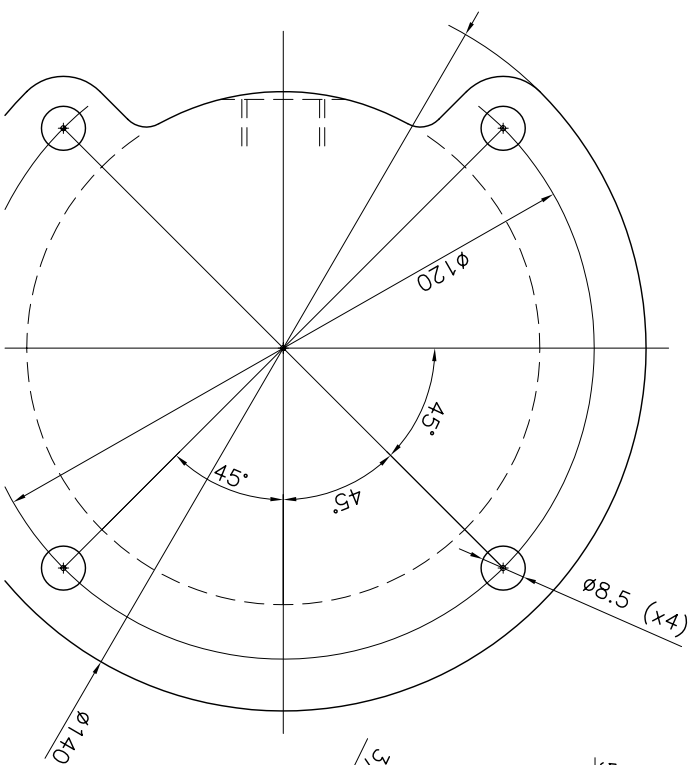


DATI TECNICI	
temperatura max	90°C
pressione max	200 bar
portata	15-60 l/min
velocità di rotazione	120 g/min
tempo ciclo breve	15"
tempo ciclo completo	30"
diametro minimo foro	100 mm
entrata	1/2" G
ugelli	1/8" G
massa	5,5 Kg

TECHNICAL DATA	
temperature max	90°C
pressure max	200 bar
flow	15-60 l/min
spinning speed	120 g/min
short washing cycle time	15"
complete washing cycle time	30"
min. pass-through hole dia.	100 mm
water inlet	1/2" G-BSP-M
nozzle size	1/8" G-BSP-M
weight	5,5 Kg

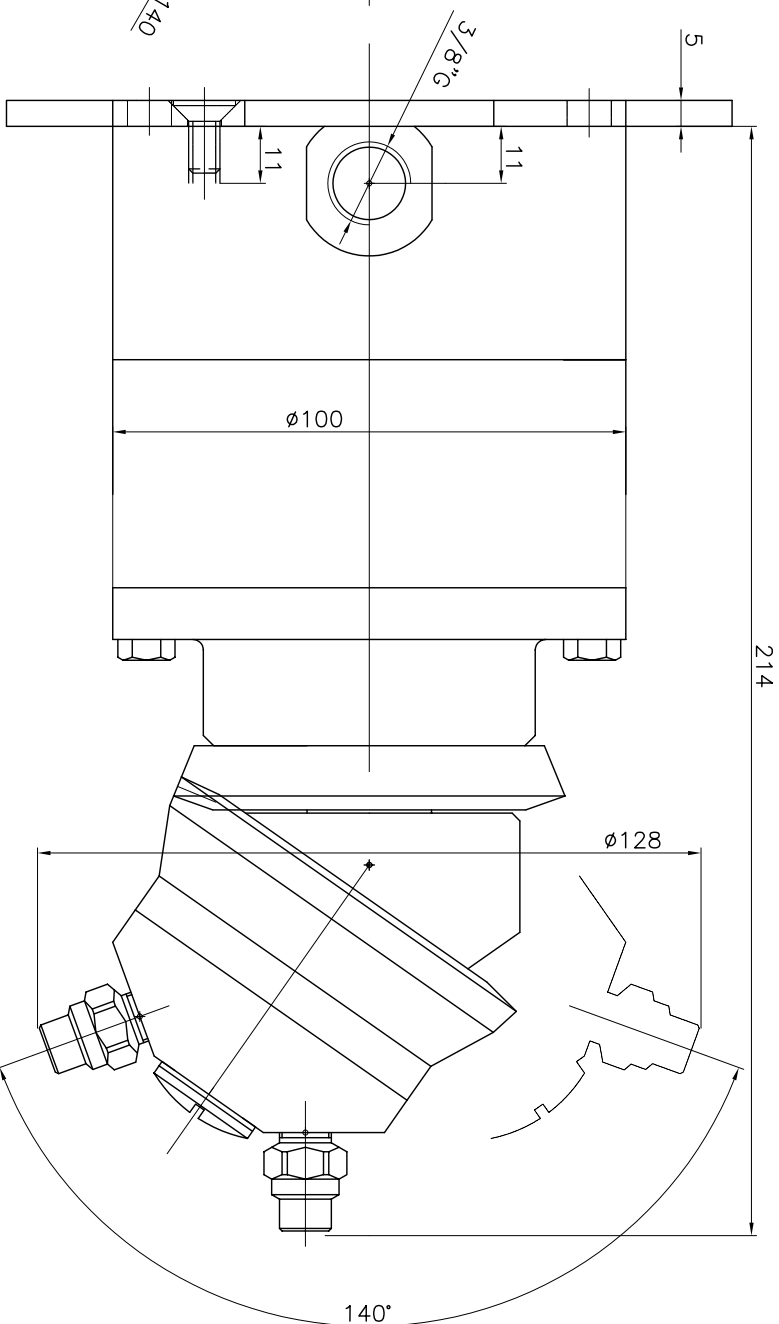


RUGOSITÀ ¹ (UNI 4600)	MODIFICA	1	2	3	4	5
GREZZO	FOGLIO	xxxx				
~ = Ø	DATA	xx.xx.xx				
SGROSS. 3/2	TOLLERANZE GENERALI classe m	UNI-EN 22768/1				
▽ = 3/2	0-6	6-30	30-120	120-400	400-1000	1000-2000
▽ = 1/2	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2
FINITURA 1/2	NOTE: VERSIONE 06					
▽ = 1/2	MATERIALE: INOX+ALLUMINIO					
RETTIFICA 0,8/	DESCRIZIONE: AQUAMOTOR SECTOR					
▽ = 1/2	OPEN CONTAINER VERSION					
NON WASHED HOLLOW CONE 120°	CODICE: SW060A-CF					
	SCALA 1:1 A3 0					
	DISIGN.: CR ICONTR.: DM					
	DATE: 18.04.02 MOD.					

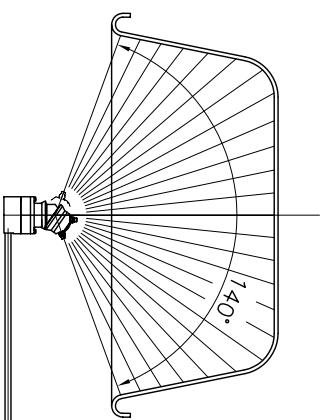


TECHNICAL DATA

O.RING	NBR – EPDM – VITON
SLIPPER	PTFE+CARBON FIBRE
BUSHING	AISI 316
FILTER	700 MICRON
NOZZLES POSITIONS	2 – 4
NOZZLES THREAD	1/8"NPT
TESTING NOZZLES	0 x 0000
OPERATING FLOW RANGE	15 – 60 L/min
TESTING FLOW	00 L/min
OPERATING PRESSURE RANGE	5 – 200 bar
TESTING PRESSURE	000 bar
CENTER LINE MIN PASS THROUGH HOLE	140 mm
MANUAL MIN PASS THROUGH HOLE	140 mm
MAX OPERATING TEMPERATURE	90 °C
MATERIAL	INOX AISI 316
CONICAL GEARS	FIXED Z=37 ROTATING Z=39
MODULE	2
DIFFUSER SPEED SETTING POSITIONS	4
TESTING DIFFUSER POSITION	X
ROTATION SPEED	SEE CHART
FULL CYCLE	39 ROTATIONS
FULL CYCLE TIME	26 sec. AT 90 RPM
WEIGHT	9,6 KG



FLOW L/MIN		DIFFUSER POSITION			
		1	2	3	4
15	78	36			
30		90	42		
45			72	42	
60			96	60	
		SPINNING SPEED			
		RPM			



RUGOSITA' (UNI 4600)	MODIFICA	1	2	3	4	5
FOGLIO	XXXX					
DATA	XX.XX.XX					
GREZZO	TOLLERANZE GENERALI classe m UNI-EN 22768/1					
0-6	6-30	30-120	120-400	400-1000	1000-2000	
±0.1	±0.2	±0.3	±0.5	±0.8	±1.2	
NOTE:						
FINITURA 1,6/	MATERIALE: AISI 304					
RETIFICA 0,8/						
DESCRIZIONE: SW060 WKL 01 SIDE INLET						
FRONTAL PATTERN 140°						
CODICE: SW 060WKL 01						
1:1	A3					
0						
DISIGN.: CR I CONTR.: DM						
DATA: 20.02.09						
MOD.						

file: SW 060WKL 01 cm

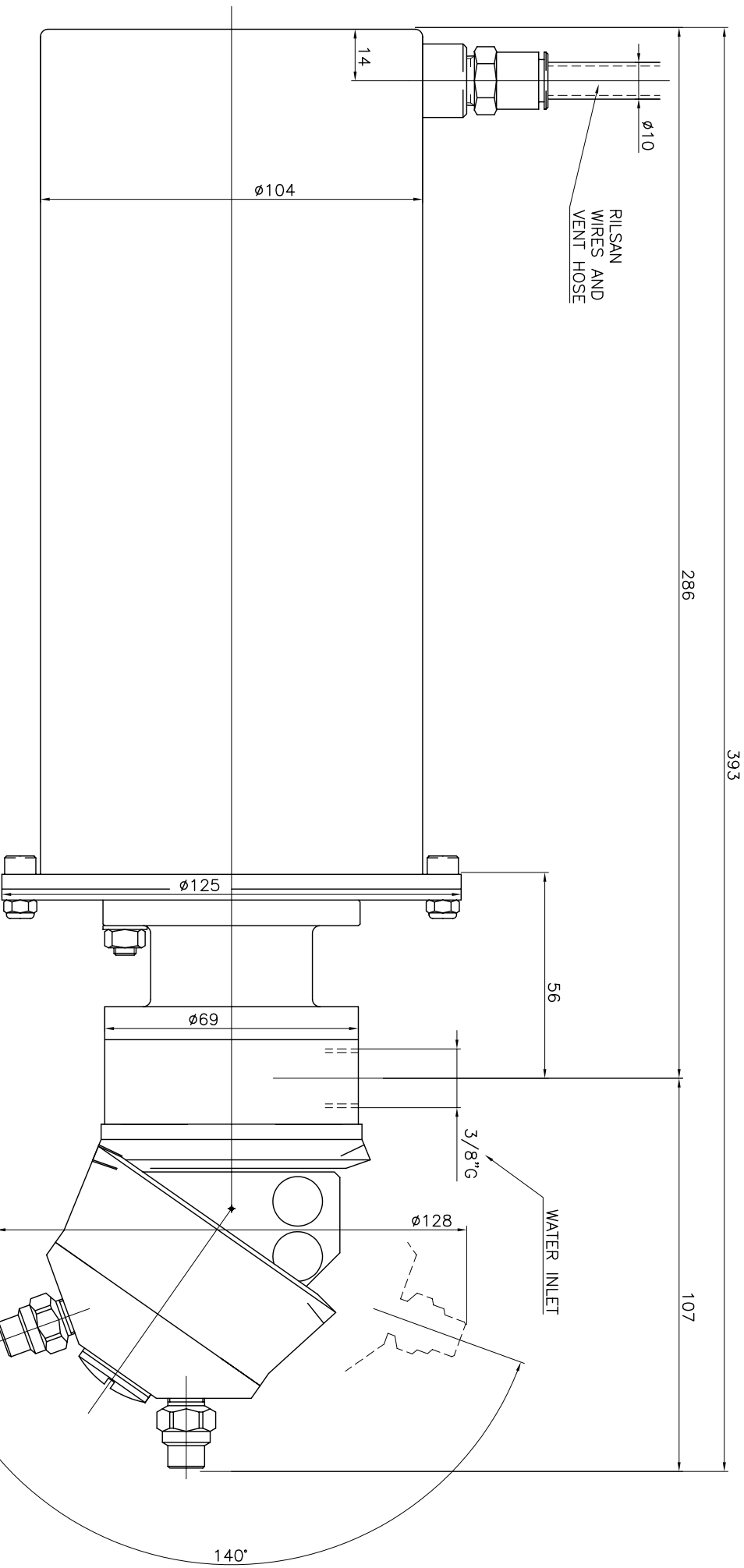


MONTECCHIO E. (RE) - ITALY

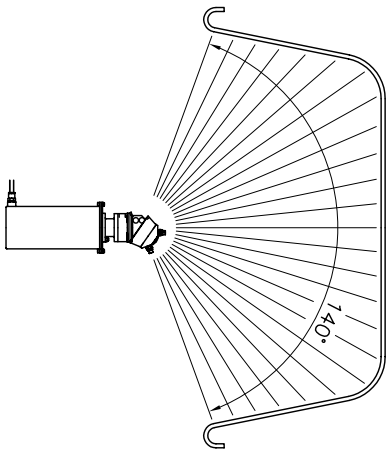
DISIGN.: CR I CONTR.: DM

DATA: 20.02.09

MOD.



TECHNICAL DATA	
material	INOX
max temperature	90°C
max pressure	150 bar
max flow	60 l/min
spinning speed	100 rpm
electric motor volts	24V DC
electric motor amps	3A
electric motor power	90 W
protection level	IP67
water inlet	3/8"G
nozzle thread	1/8"NPT
weight	2.0 Kg



RUGOSITA' (UNI 4600)	MODIFICA	1	2	3	4	5
FOGLIO	xxxx					
DATA	xx.xx.xx					
GREZZO	TOLLERANZE GENERALI classe m UNI-EN 22768/1					
~ = ∅	0÷6 6÷30 30÷120 120÷400 400÷1000 1000÷2000					
SGROSS.	±0.1 ±0.2 ±0.3 ±0.5 ±0.8 ±1.2					
∇ = ∇	NOTE:					
FINITURA 1,6/						
∇∇ = ∇	MATERIALE:					
RETTIFICA 0,8/	DESCRIZIONE: APPLICATION DRAWING					
∇∇∇ = ∇	FEISTMANTL VERSION					
	CODICE:					
	SW 060WKE					



MONTECCHIO E. (RE) - ITALY

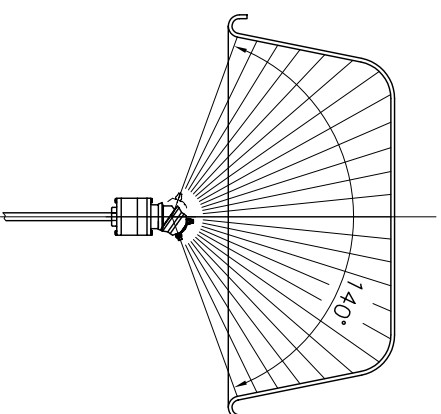
DISEGN.: CR I CONTR.: DM

DATA: 14.11.08 MOD.

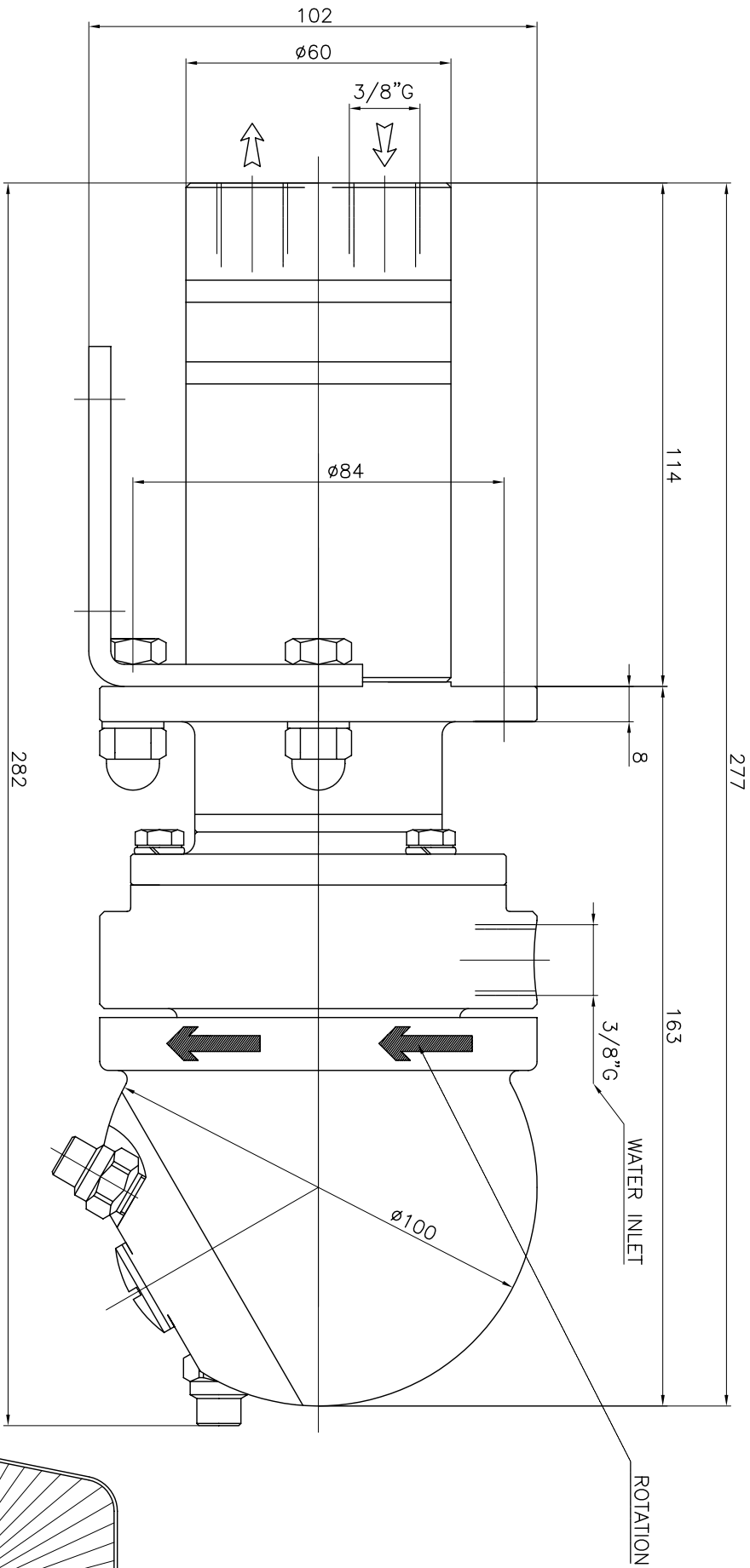
SCALA 1:1 A3 0

O.RING	NBR – EPDM – VITON
SLIPPER	PTFE+CARBON FIBRE
BUSHING	ALSI 316
FILTER	700 MICRON
NOZZLES POSITIONS	2 – 4
NOZZLES THREAD	1/8"NPT
TESTING NOZZLES	0 x 0000
OPERATING FLOW RANGE	15 – 60 L/min
TESTING FLOW	00 L/min
OPERATING PRESSURE RANGE	5 – 200 bar
TESTING PRESSURE	000 bar
CENTER LINE MIN PASS THROUGH HOLE	128 mm
MANUAL MIN PASS THROUGH HOLE	100 mm
MAX OPERATING TEMPERATURE	90 °C
MATERIAL	INOX ALSI 316
CONICAL GEARS	FIXED Z=37 ROTATING Z=39
MODULE	2
DIFFUSER SPEED SETTING POSITIONS	4
TESTING DIFFUSER POSITION	X
ROTATION SPEED	SEE CHART
FULL CYCLE	39 ROTATIONS
FULL CYCLE TIME	26 sec. AT 90 RPM
WEIGHT	9,6 KG

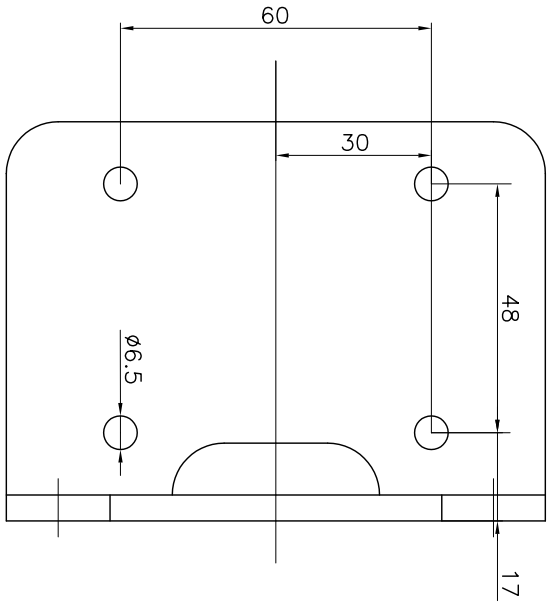
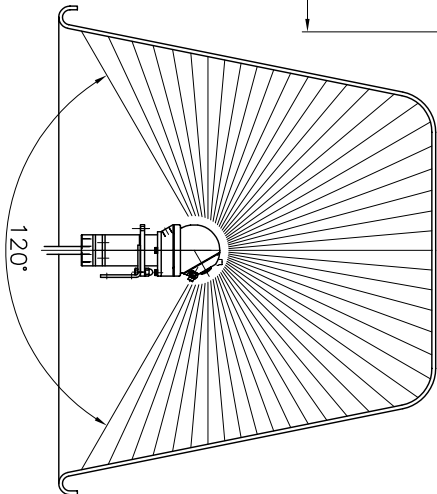
DIFFUSER POSITION		FLOW L/MIN	
1	2	3	4
15	78	36	
30		90	42
45		72	42
60		96	60
SPINNING SPEED		RPM	



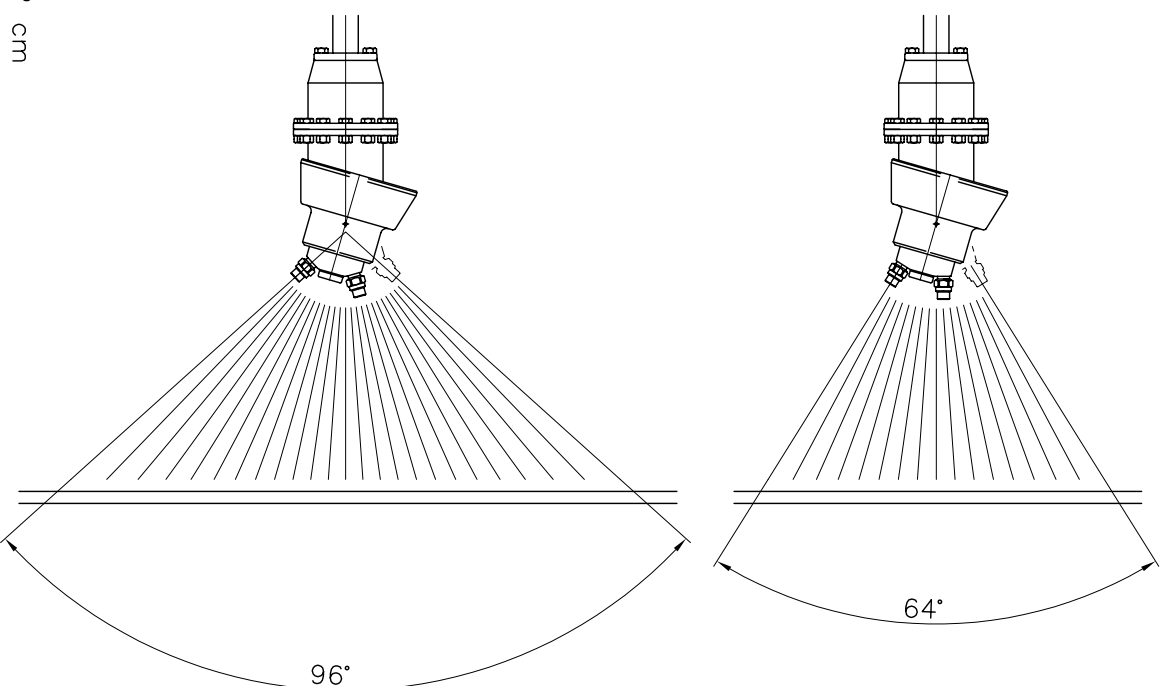
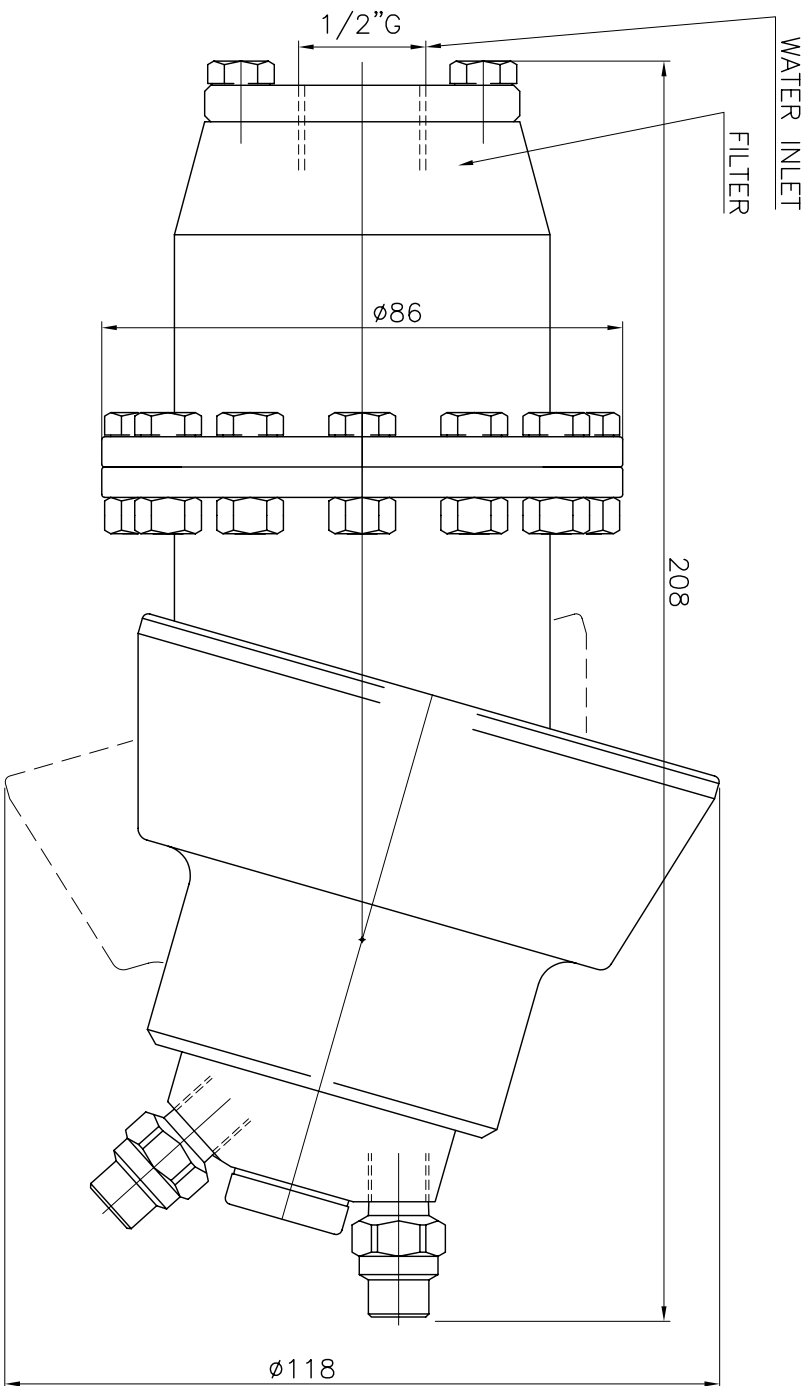
RUGOSITA' (UNI 4600)	MODIFICA	1	2	3	4	5	 CLEANING HEADS MONTECCHIO E. (RE) - ITALY
GREZZO	FOGLIO	XXXX					
$\sim = \varphi$	DATA	xx.xx.xx					
SGROSS: $3\frac{1}{2}$	TOLLERANZE	GENERALI classe m UNI-EN 22768/1					
$\nabla = \varphi$	0÷6	6÷50	30÷120	120÷400	400÷1000	1000÷2000	
FINITURA	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2	NOTE:
1.6/	MATERIALE: AISI 304						
RETTIFICA							
XXXX = $\frac{\nabla}{0.8}$	DESCRIZIONE: SW060 WKC 01 cm1 WITH FILTER FRONTAL PATTERN 140°						
	CODICE:						
	SW 060WKC 01						



TECHNICAL DATA	
MAX FLOW: 60 L/MIN.	
MAX PRESSURE: 200 BAR.	
SPINNING SPEED: 120 RPM (ADJUSTABLE)	
HYDRAULIC MOTOR: 32 CC	
OIL FLOW: 3.8 L/MIN. (ADJUSTABLE)	
OIL PRESSURE: 20 BAR MAX.	
WEIGHT: 5.0 KG.	



RUGOSITA' (UNI 4600)	MODIFICA	1	2	3	4	5
FOGLIO	XXXX					
DATA	XX.XX.XX					
GREZZO	TOLLERANZE GENERALI classe m UNI-EN 22768/1					
~ = ∅	0÷6 6÷30 30÷120 120÷400 400÷1000 1000÷2000					
SGROSS. 3/2	±0.1 ±0.2 ±0.3 ±0.5 ±0.8 ±1.2					
∇ = 3/2	NOTE:					
FINITURA 1.6/	MATERIALE: ALUMINIUM					
∇∇ = 1.6/						
RETTIFICA 0.8/	DESCRIZIONE: OPEN CONTAINER VERSION NON					
∇∇∇ = 0.8/	WASHED HOLLOW CONE 120°					
	CODICE:					
	SW 060 HY					
	1:1 A3 0					
	SCALA					
	DATA: 20.11.01					
	MOD.					
	DISIGN.: CR I CONTR.: DM					
	MONTECCHIO E. (RE) - ITALY					
	CLEANING HEADS					
	Bohmer					



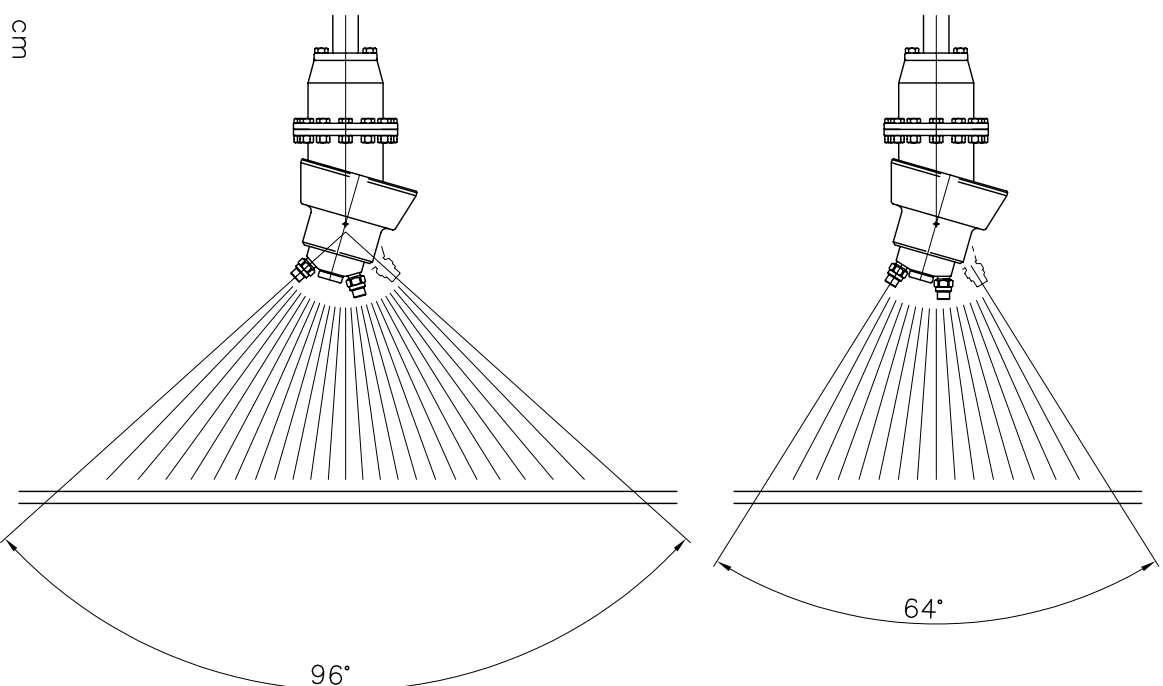
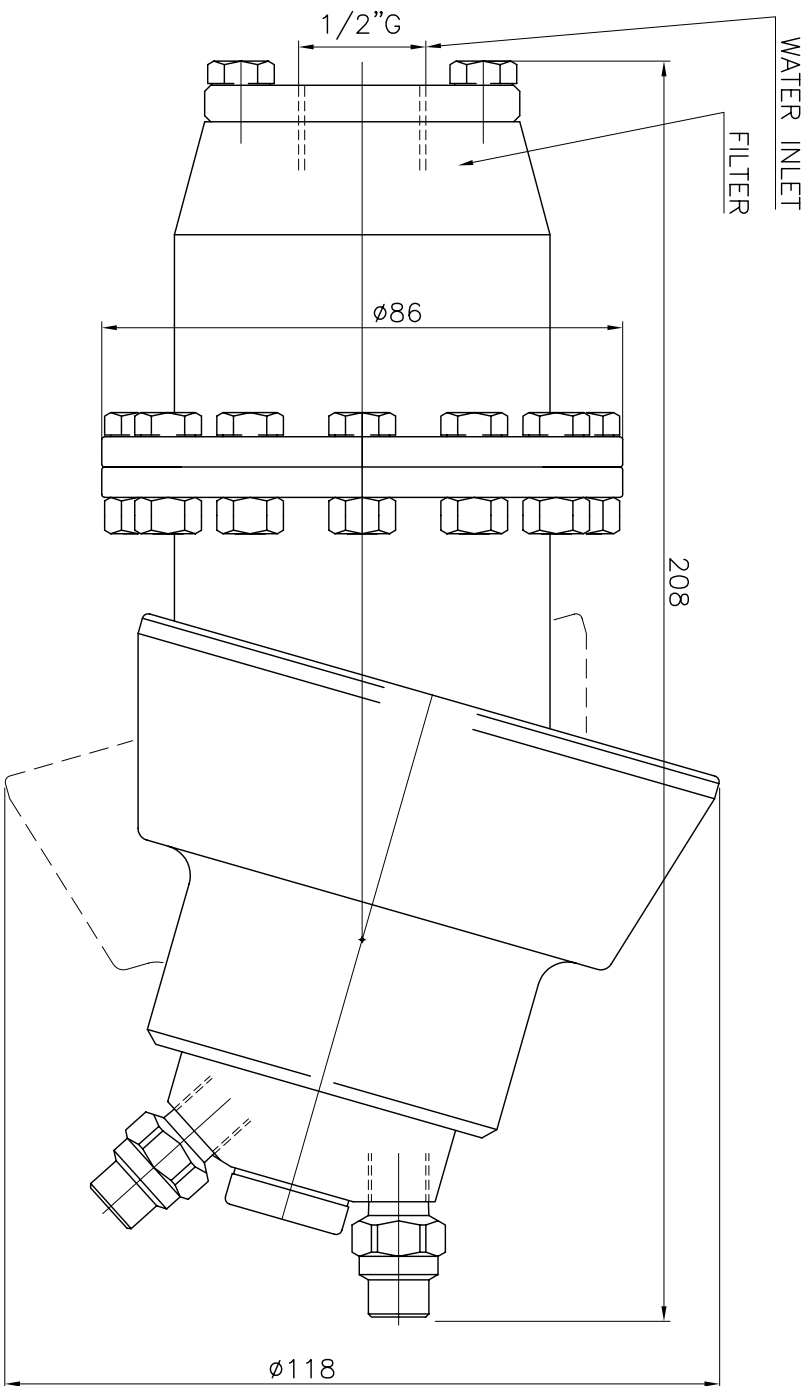
2 1/8"NPT NOZZLES POSITIONS ON 64° CONE
2 1/8"NPT NOZZLES POSITIONS ON 96° CONE

PLUG NOZZLES POSITIONS NOT USED

TECHNICAL DATA	
temperature max	90°C
pressure max	150 bar
flow	15–60 l/min
spinning speed	80 rpm
water inlet	1/2"G
filter	700 micron
nozzle thread	1/8"NPT
nozzles positions	2 on 64° cone – 2 on 96° cone
weight	3.0 Kg

file: SW 048 SP cm

RUGOSITA' (UNI 4600)	MODIFICA	1	2	3	4	5
	FOGLIO	XXXX				
	DATA	XX.XX.XX				
	TOLLERANZE GENERALI classe m UNI-EN 22768/1					
SGROSS. ~ = √	0÷6	6÷30	30÷120	120÷400	400÷1000	1000÷2000
	± 0.1	± 0.2	± 0.3	± 0.5	± 0.8	± 1.2
▽ = √	NOTE:					
FINITURA ▽ = √	MATERIALE: INOX					
RETTIFICA ▽ = √	DESCRIZIONE: ORBITAL SURFACE WASHING INSTALLATION DRAWING					
 CLEANING HEADS MONTECCHIO E. (RE) – ITALY	CODICE:					
	SW 048 SP					
	SCALE		1:1	A4	O	
DISEGN.: CR		CONTR.: DM				
DATA: 17.02.09		MOD.				



2 1/8"NPT NOZZLES POSITIONS ON 64° CONE
2 1/8"NPT NOZZLES POSITIONS ON 96° CONE

PLUG NOZZLES POSITIONS NOT USED

TECHNICAL DATA	
temperature max	90°C
pressure max	150 bar
flow	15–60 l/min
spinning speed	25 rpm
water inlet	1/2"G
filter	700 micron
nozzle thread	1/8"NPT
nozzles positions	2 on 64° cone – 2 on 96° cone
weight	3.0 Kg

file: SW 048 SL cm

RUGOSITA' (UNI 4600)	MODIFICA	1	2	3	4	5
	FOGLIO	XXXX				
	DATA	XX.XX.XX				
	TOLLERANZE GENERALI classe m UNI-EN 22768/1					
GREZZO √ = √	0÷6	6÷30	30÷120	120÷400	400÷1000	1000÷2000
	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2
SGROSS. ∇ = ∇	NOTE:					
FINITURA ∇∇ = ∇						
RETTIFICA ∇∇∇ = ∇	MATERIALE:	INOX				
DESCRIZIONE:	ORBITAL SURFACE WASHING					
	INSTALLATION DRAWING					
 CLEANING HEADS MONTECCHIO E. (RE) – ITALY						
CODICE:		SW 048 SL				
SCALE		1:1	A4	O		

SERIE XB

XB SERIES

TESTINE AUTOROTANTI O MOTORIZZATE PER LAVAGGIO VOLUMETRICO
SELFSPINNING OR MOTOR DRIVEN HEADS FOR VOLUMETRIC CLEANING

TESTINE DI LAVAGGIO VOLUMETRICHE

Disponibili con motore ad acqua, elettrico o pneumatico, per foro accesso minimo di 40mm

VOLUMETRIC CLEANING HEADS

Available with water motor, electric or pneumatic, for min pass through hole of 40mm

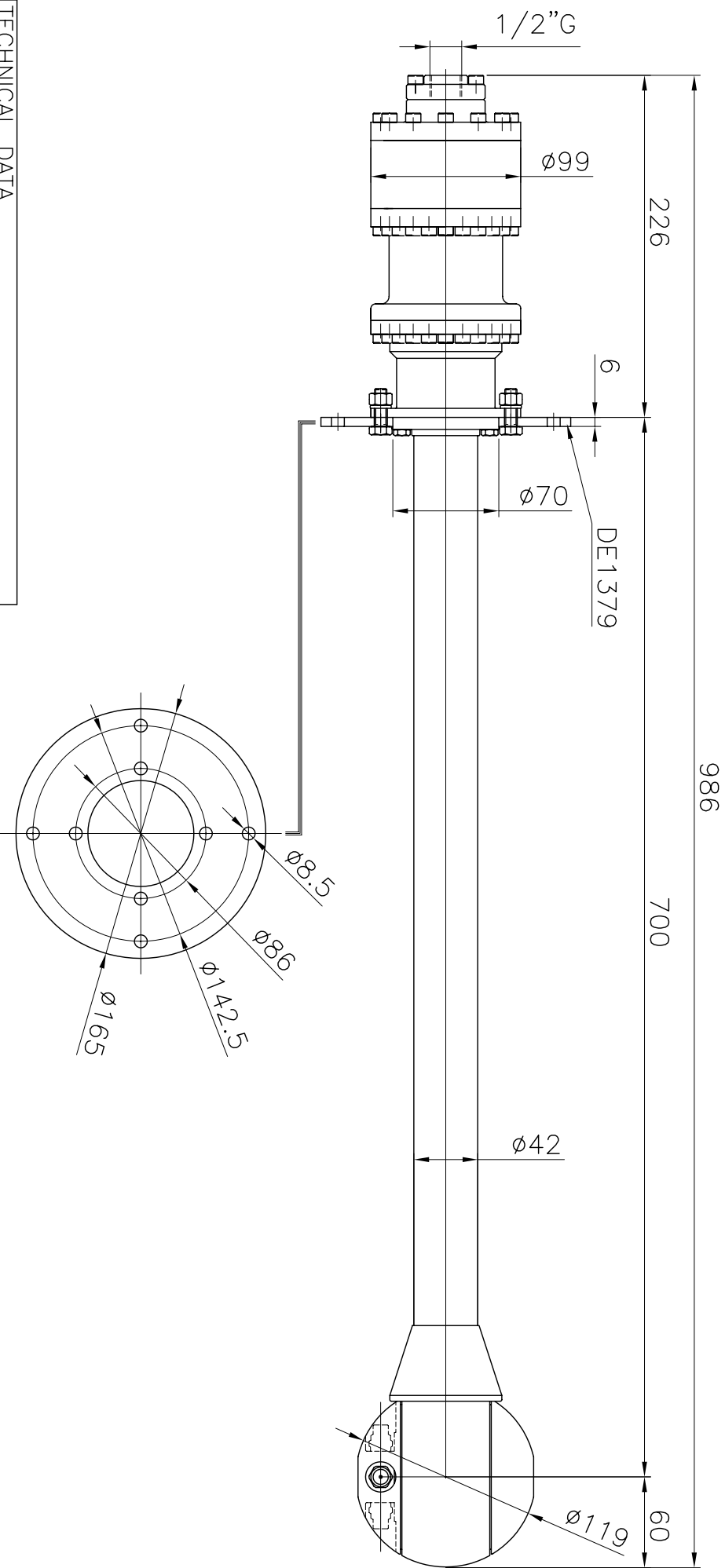


La parte terminale della testina anziché essere con ugelli sporgenti è realizzata con una sfera per facilitare l'introduzione automatica in fori molto piccoli. Disponibili in diverse lunghezze fino ad un max. di 6mt

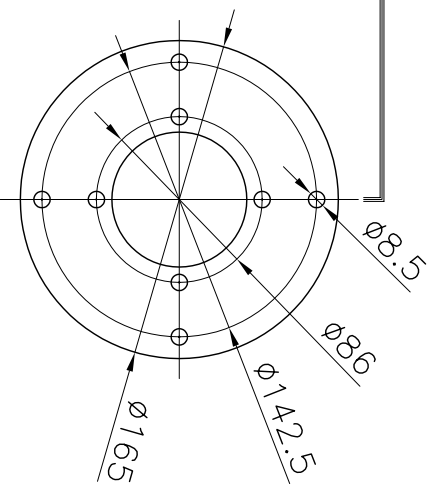
The end part of the head is a ball to make easier the introduction of the cleaning head in small hole; are available in different length till a max. of 6mt



rOtojet



TECHNICAL DATA	
temperature max	90°C
pressure max	500 bar
flow	15-60 l/min
spinning speed	16 rpm
washing cycle time	6 min
min. pass-through hole dia.	120 mm
water inlet	1/2"G
inlet filter	700 micron
material	INOX
seals	NBR
nozzle size	1/4"NPT
nozzles positions	2 - 4
weight	10.5 Kg

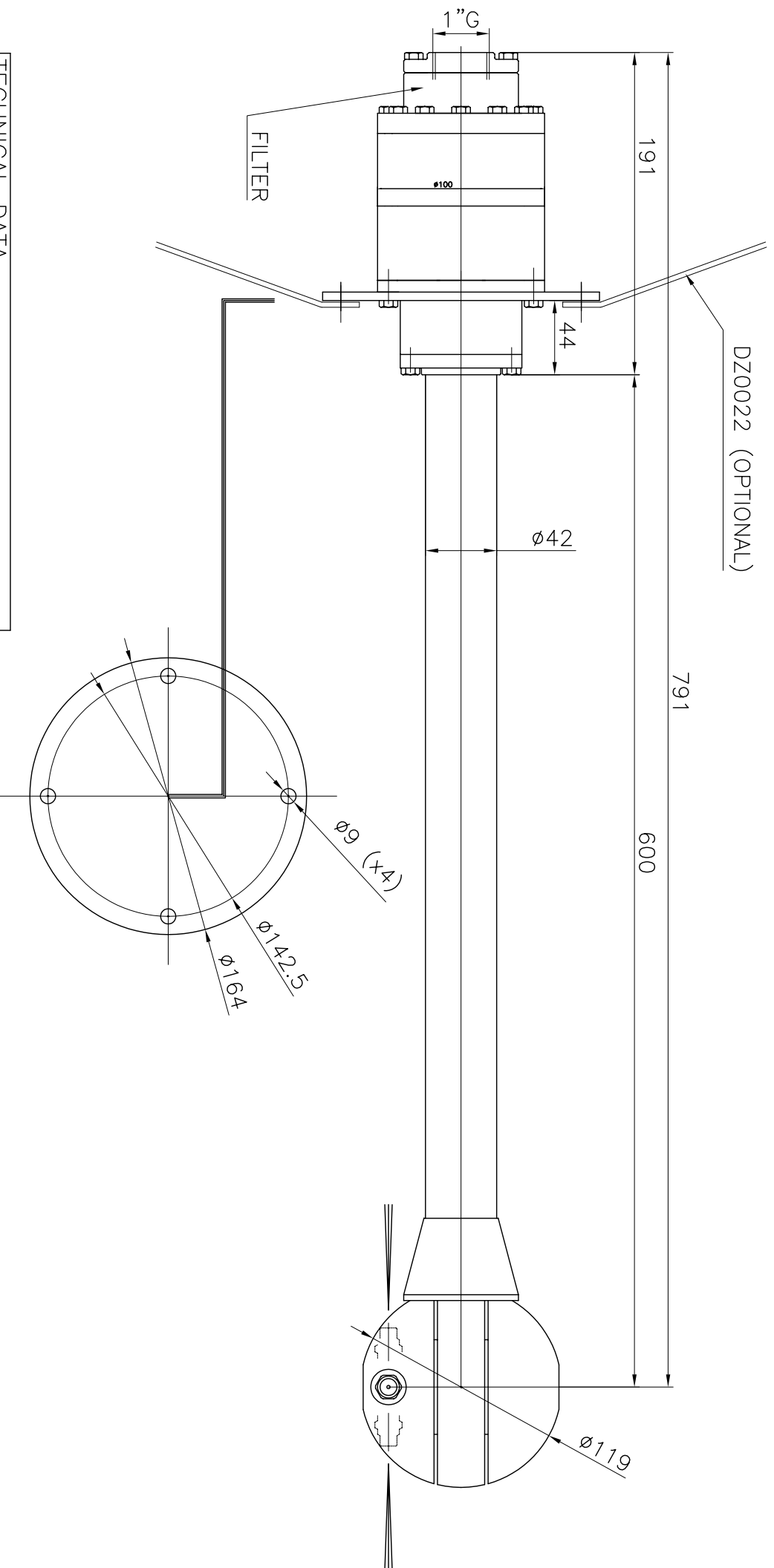


RUGOSITA' (UNI 4600)	MODIFICA	1	2	3	4	5
	FOGLIO	XXXX				
GREZZO	DATA	XX.XX.XX				
	TOLLERANZE GENERALI classe m UNI-EN 22768/1	0÷6	6÷30	30÷120	120÷400	400÷1000
~ = ∅		±0.1	±0.2	±0.3	±0.5	±0.8
SGROSS. 3.2/						±1.2
∇ = ∇	NOTE:					
FINITURA 1.6/	MATERIALE:					
∇∇ = ∇						
RETTIFICA 0.8/	DESCRIZIONE: XB 586A					
∇∇∇ = ∇	INSTALLATION DRAWING					
		CODICE:		XB 586A		



MONTECCHIO E. (RE) - ITALY
 DISEGN.: CR | CONTR.: DM
 DATA: 13.05.08 | MOD.

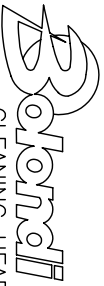
SCALE 1:1 | A4 | 0



TECHNICAL DATA	
temperature max	90°C
pressure max	200 bar
flow	60-200 l/min
spinning speed	15 rpm
washing cycle time	6 min
min. pass-through hole dia.	120 mm
water inlet	1"G
inlet filter	700 micron
nozzle size	1/4"NPT
nozzles positions	2 - 4
weight	X.X Kg

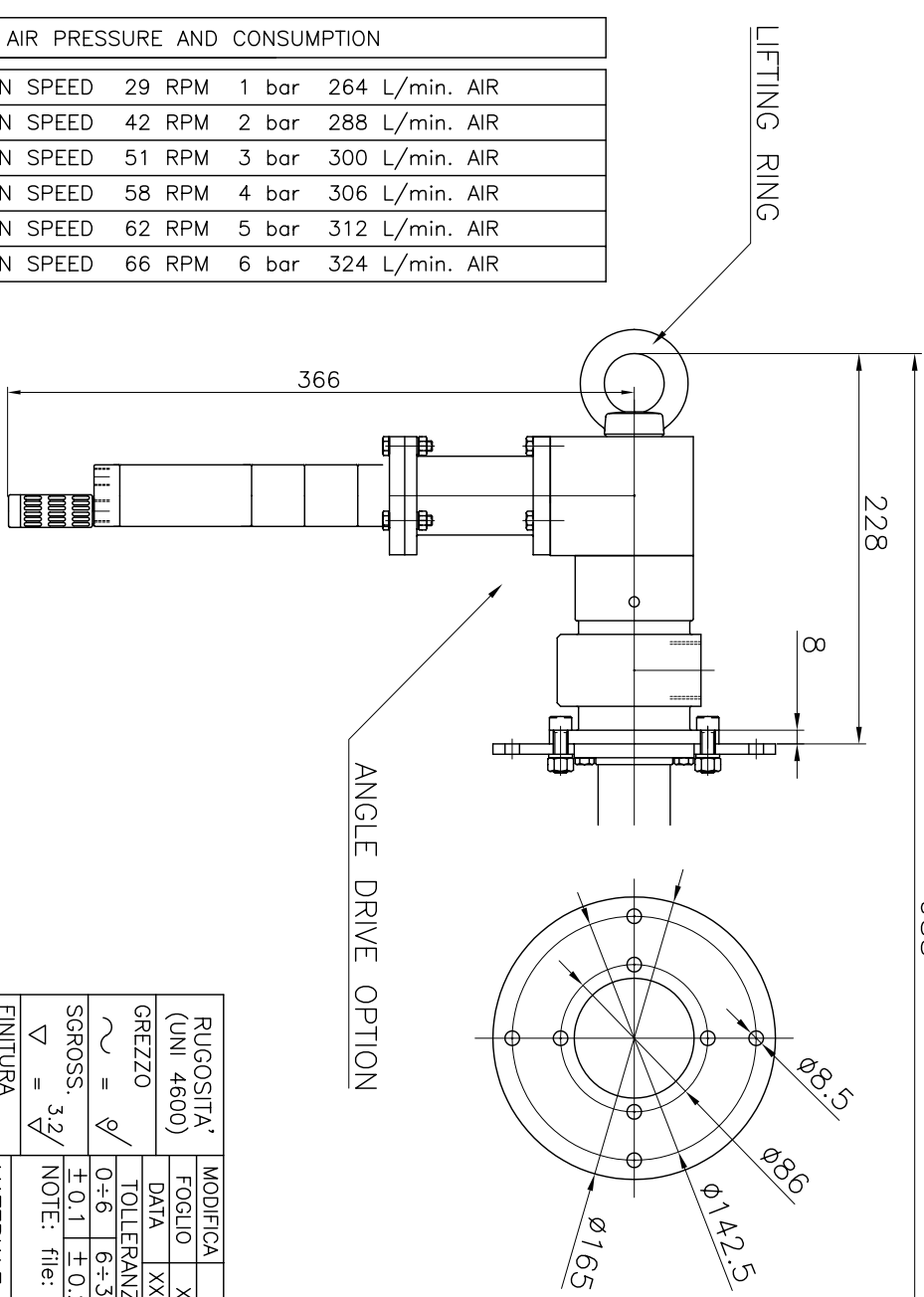
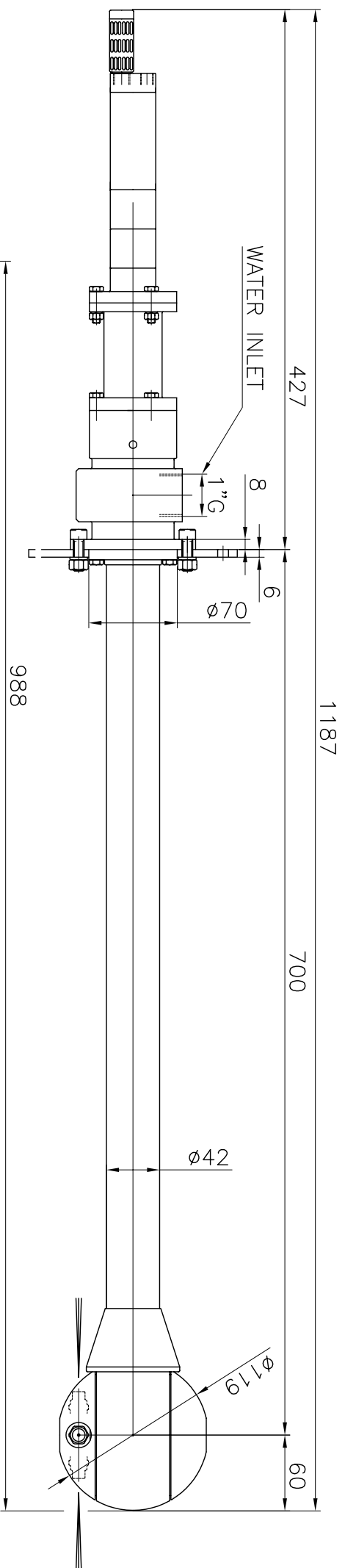
RUGOSITA' (UNI 4600)	MODIFICA	1	2	3	4	5
	FOGLIO	XXXX				
GREZZO	DATA	XX.XX.XX				
	TOLLERANZE GENERALI classe m	UNI-EN 22768/1				
SGROSS. 3/2	0÷6	6÷30	30÷120	120÷400	400÷1000	1000÷2000
	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2
NOTE:						
FINITURA 1.6/						
RETTIFICA 0.8/						
DESCRIZIONE: XB 200-AA						
INSTALLATION DRAWING						
CODICE: XB 200-AA						

file: XB 200AA.01 comm



MONTECCHIO E. (RE) - ITALY
 DISEGN.: CR CONTR.: DM
 DATA: 01.12.06 MOD.

SCALA 1:3 A4 O



TECHNICAL DATA

O. RING	EPDM
SLIPPER	PTFE+CARBON FIBER
BUSHING	NICKEL BRONZE 25%
NOZZLES POSITIONS	2 - 4
NOZZLES SIZE	1/4"NPT
MAX OPERATING FLOW	200 L/min
MAX OPERATING PRESSURE	200 bar
MIN PASS THROUGH HOLE	120 mm ON CENTER LINE
MAX TEMPERATURE	90 °C
MATERIAL	INOX AISI 316
GEARS	FIXED Z=39 ROTATING Z=95
MODULE	1
FULL CYCLE	95 ROTATIONS
FULL CYCLE TIME	2 MIN. AT 3 BAR AIR PRESSURE
AIR MOTOR	ATLAS COPCO INOX
AIR EXHAUST	FESTO SILENCER BP 415 ON MOTOR
WEIGHT	4.9 KG

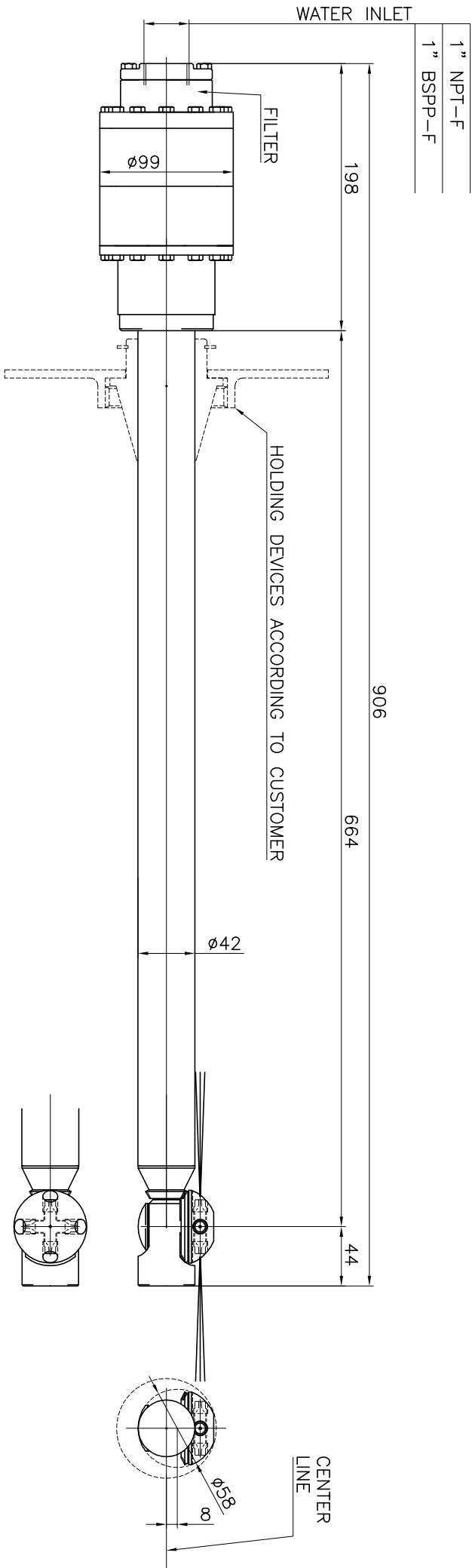
AIR PRESSURE AND CONSUMPTION				
ROTATION SPEED	29 RPM	1 bar	264 L/min.	AIR
ROTATION SPEED	42 RPM	2 bar	288 L/min.	AIR
ROTATION SPEED	51 RPM	3 bar	300 L/min.	AIR
ROTATION SPEED	58 RPM	4 bar	306 L/min.	AIR
ROTATION SPEED	62 RPM	5 bar	312 L/min.	AIR
ROTATION SPEED	66 RPM	6 bar	324 L/min.	AIR

RUGOSITA' (UNI 4600)	MODIFICA	1	2	3	4	5
GREZZO	FOGLIO	XXXX				
SGROSS. 3.2/	DATA	XX.XX.XX				
FINITURA 1.6/	TOLLERANZE GENERALI classe m UNI-EN 22768/1					
RETTIFICA 0.8/	0÷6 6÷30 30÷120120÷400400÷10001000÷2000					
NOTE: file: XB 200PEAB.01 comm	±0.1 ±0.2 ±0.3 ±0.5 ±0.8 ±1.2					
MATERIALE: INOX	NOTE: file: XB 200PEAB.01 comm					
DESCRIZIONE: XB 200 P						
INSTALLATION DRAWING						
CODICE: XB 200P						



MONTECCHIO E. (RE) - ITALY
 DISIGN.: CR CONTR.: DM
 DATA: 27.02.08
 MOD.

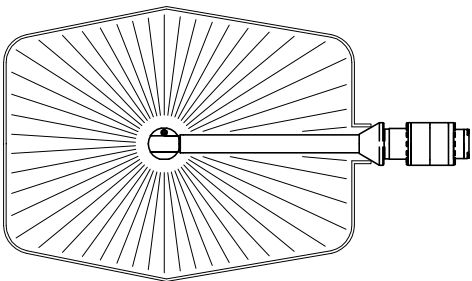
SCALA 1:4 A4 O



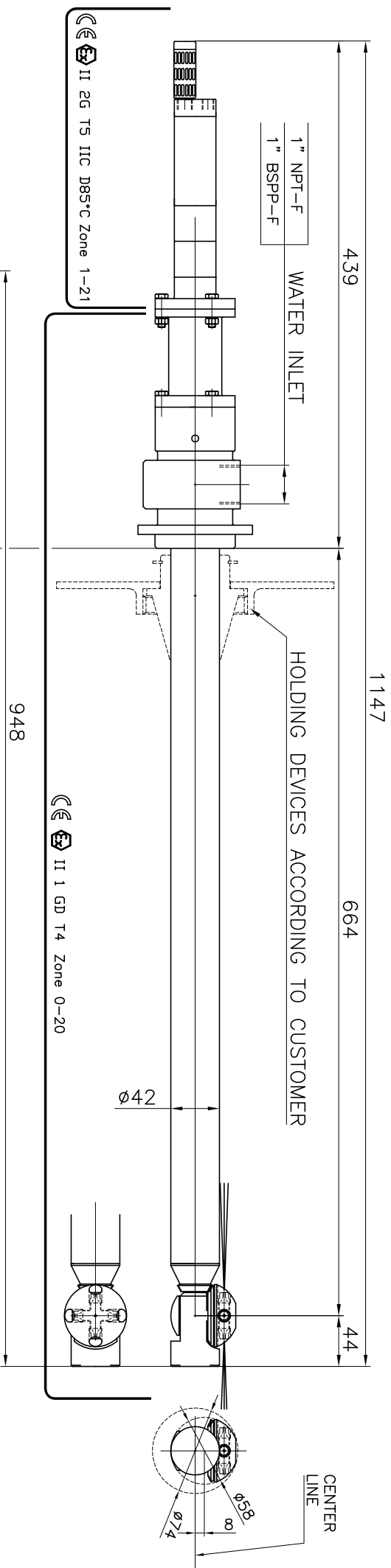
TECHNICAL DATA

O.RING	NBR – EPDM – VITON
SLIPPER	PTFE+CARBON FIBRE
BUSHING	AINI 316
FILTER	700 MICRON
NOZZLES POSITIONS	2 – 4
NOZZLES THREAD	SPECIAL
OPERATING FLOW RANGE	60 – 120 L/min
OPERATING PRESSURE RANGE	5 – 200 bar
CENTER LINE MIN PASS THROUGH HOLE	74 mm
MANUAL MIN PASS THROUGH HOLE	58 mm
MAX OPERATING TEMPERATURE	90 °C
MATERIAL	INOX AINI 316
CONICAL GEARS	FIXED Z=29 ROTATING Z=63
MODULE	1
DIFUSER SPEED SETTING OPENINGS	4
ROTATION SPEED	SEE CHART
FULL CYCLE	53 ROTATIONS
FULL CYCLE TIME	2.65 min AT 20 RPM
WEIGHT	9.6 KG

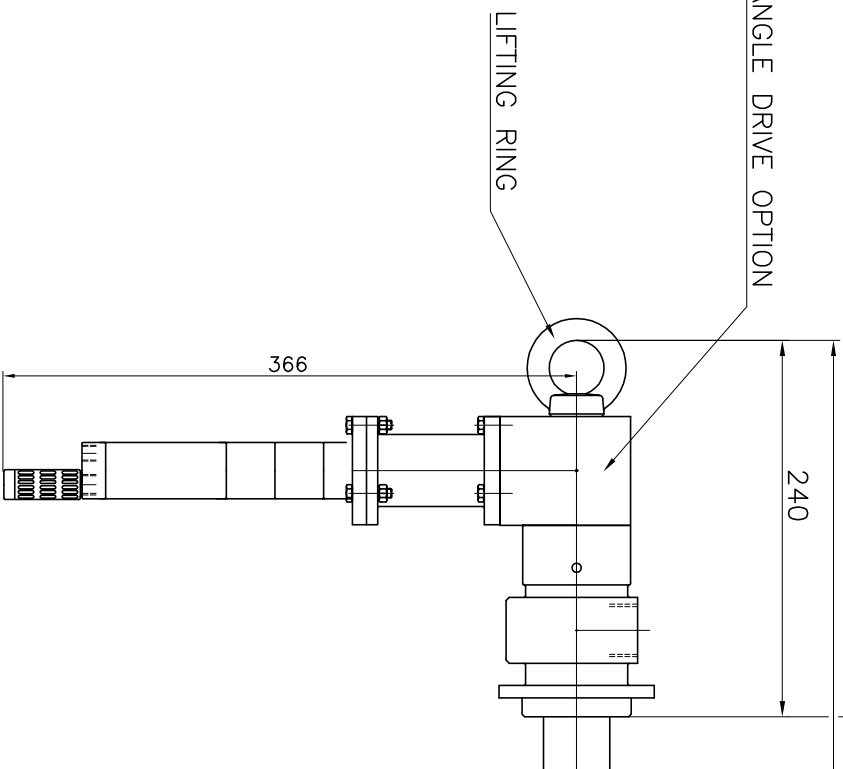
FLOW L/MIN		DIFUSER OPENING			
3	3/6	3/6/9	3/6/9/12		
60	18	8			
80	24	18	13		
100		22	16		
120		27	20	16	
SPINNING SPEED RPM					



RUGOSITA' (UNI 4600)	MODIFICA 1	2	3	4	5
GREZZO	FOGLIO XXXX				
~ = Ø	DATA XX.XX.XX				
SGROSS. 3/2	TOLLERANZE GENERALI classe m UNI-EN 22768/1				
∇ = ∇	0±6 ±0.1 6÷30 ±0.2 30÷120 ±0.3 120÷400 ±0.5 400÷1000 ±0.8 1000÷2000 ±1.2				
FINITURA 1.6/∇	NOTE:				
RETIFICA 0.8/∇	MATERIALE:				
∇∇∇ = ∇	DESCRIZIONE: XB 120 A				
	INSTALLATION DRAWING				
	CODICE: XB 120 A				



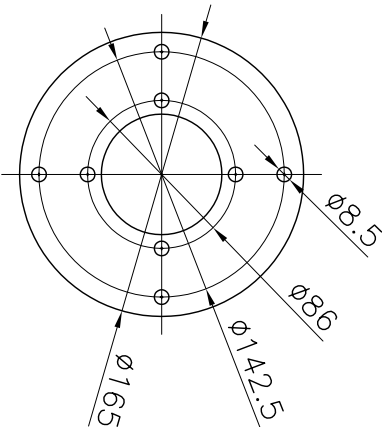
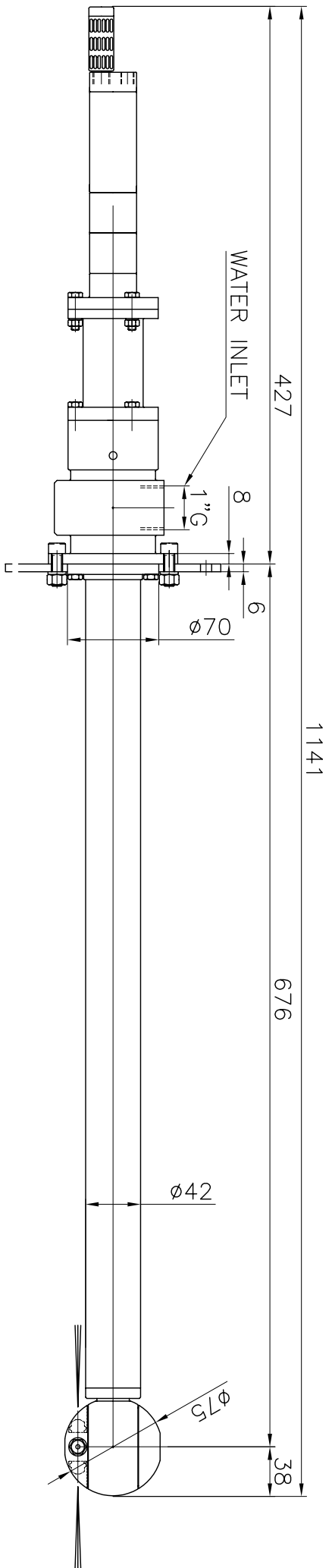
ANGLE DRIVE OPTION



AIR PRESSURE AND CONSUMPTION			
ROTATION SPEED	29 RPM	1 bar	264 L/min. AIR
ROTATION SPEED	42 RPM	2 bar	288 L/min. AIR
ROTATION SPEED	51 RPM	3 bar	300 L/min. AIR
ROTATION SPEED	58 RPM	4 bar	306 L/min. AIR
ROTATION SPEED	62 RPM	5 bar	312 L/min. AIR
ROTATION SPEED	66 RPM	6 bar	324 L/min. AIR

TECHNICAL DATA	
O-RING	EPDM
SLIPPER	PTFE+CARBON FIBER
BUSHING	ASI 316
NOZZLES POSITIONS	2 - 4
NOZZLES SIZE	SPECIAL
MAX OPERATING FLOW	120 L/min
MAX OPERATING PRESSURE	200 bar
MIN PASS THROUGH HOLE	74 mm ON CENTER LINE
MIN PASS THROUGH HOLE	58 mm MANUAL
MAX TEMPERATURE	90 °C
MATERIAL	INOX AISI 316
GEARS	FIXED Z=29 ROTATING Z=53
MODULE	1
FULL CYCLE	53 ROTATIONS
FULL CYCLE TIME	1 MIN. AT 3 BAR AIR PRESSURE
AIR MOTOR	ATLAS COPCO ATEX BA0725 INOX
AIR EXHAUST	FESTO SILENCER BP 415 ON MOTOR
WEIGHT	4.9 KG

RUGOSITA' (UNI 4600)	MODIFICA	1	2	3	4	5	 CLEANING HEADS MONTECCHIO E. (RE) - ITALY
FOGLIO	XXXX						
DATA	XX.XX.XX						
TOLLERANZE GENERALI close m UNI-EN 22768/1	0÷6	6÷30	30÷120	120÷400	400÷1000	1000÷2000	
SGROSS.	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2	
FINITURA	1.6/						DISEGN.: CR CONTR.: DM DATA: 16.11.11 MOD.
RETTIFICA	0.8/						
DESCRIZIONE: XB 120 P INSTALLATION DRAWING							
CODICE: XB 120 P							



TECHNICAL DATA				
O. RING	EPDM			
SLIPPER	PTFE+CARBON FIBER			
BUSHING	AISI 316			
NOZZLES POSITIONS	2 - 4			
NOZZLES SIZE	SPECIAL			
MAX OPERATING FLOW	120 L/min			
MAX OPERATING PRESSURE	200 bar			
MIN PASS THROUGH HOLE	75 mm ON CENTER LINE			
MAX TEMPERATURE	90 °C			
MATERIAL	INOX AISI 316			
GEARS	FIXED Z=39 ROTATING Z=59			
MODULE	1			
FULL CYCLE	59 ROTATIONS			
FULL CYCLE TIME	1.2 MIN. AT 3 BAR AIR PRESSURE			
AIR MOTOR	ATLAS COPCO ATEX BA 723 INOX			
AIR EXHAUST	FESTO SILENCER BP 415 ON MOTOR			
WEIGHT	4.9 KG			

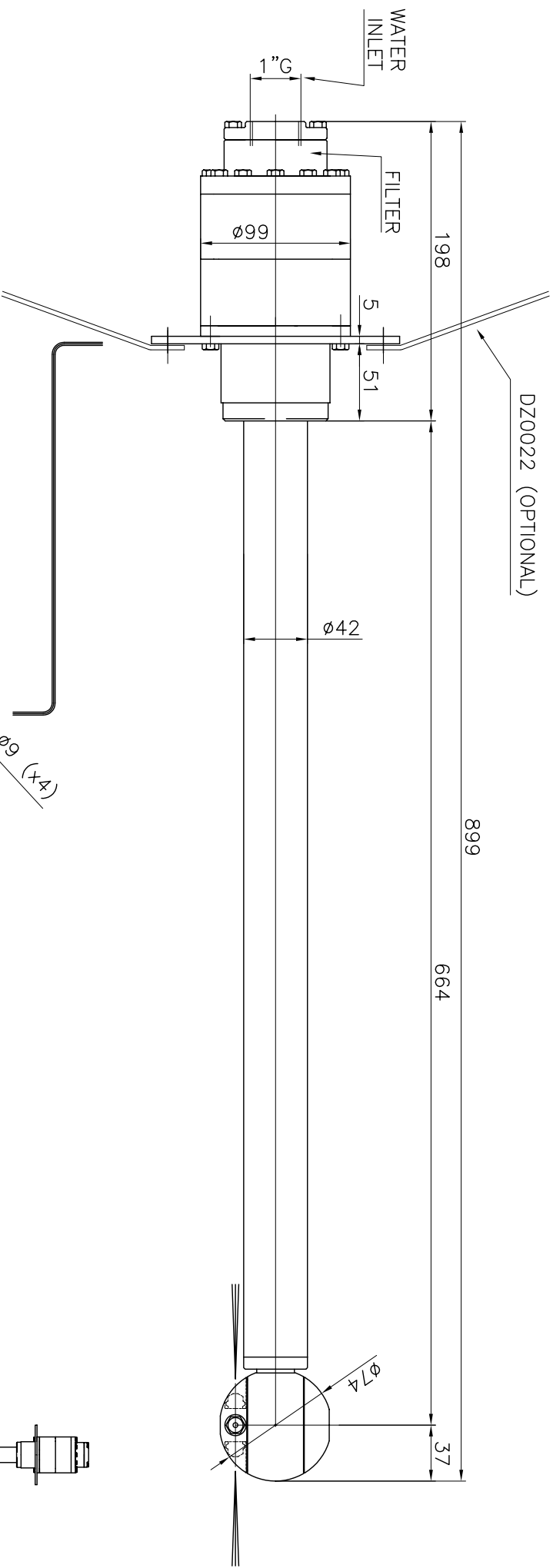
AIR PRESSURE AND CONSUMPTION				
ROTATION SPEED	29 RPM	1 bar	264 L/min.	AIR
ROTATION SPEED	42 RPM	2 bar	288 L/min.	AIR
ROTATION SPEED	51 RPM	3 bar	300 L/min.	AIR
ROTATION SPEED	58 RPM	4 bar	306 L/min.	AIR
ROTATION SPEED	62 RPM	5 bar	312 L/min.	AIR
ROTATION SPEED	66 RPM	6 bar	324 L/min.	AIR

RUGOSITA' (UNI 4600)	MODIFICA	1	2	3	4	5
	FOGLIO	XXXX				
GREZZO	DATA	XX.XX.XX				
	TOLLERANZE GENERALI classe m UNI-EN 22768/1	0÷6	6÷30	30÷120	120÷400	400÷1000
SGROSS. 3.2/	NOTE:	±0.1	±0.2	±0.3	±0.5	±1.2
FINITURA 1.6/	MATERIALE:	INOX				
RETTIFICA 0.8/	DESCRIZIONE:	XB100-P				
VVV = V	INSTALLATION DRAWING					
		CODICE:		XB100-P		



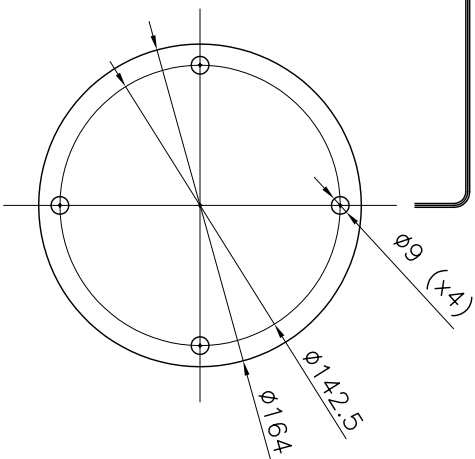
MONTECCHIO E. (RE) - ITALY
DESIGN.: CR CONTR.: DM
DATA: 21.04.09 MOD.

SCALA 1:4 A4 O

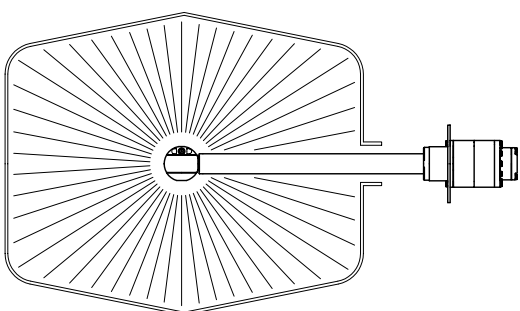


TECHNICAL DATA

O-RING	NBR – EPDM – VITON
SLIPPER	PTFE+CARBON FIBRE
BUSHING	AINI 316
FILTER	700 MICRON
NOZZLES POSTIONS	2 – 4
NOZZLES THREAD	SPECIAL
TESTING NOZZLES	0 x DR0000
OPERATING FLOW RANGE	60 – 120 L/min
TESTING FLOW	000 L/min
OPERATING PRESSURE RANGE	5 – 200 bar
TESTING PRESSURE	000 bar
CENTER LINE MIN PASS THROUGH HOLE	74 mm
MANUAL MIN PASS THROUGH HOLE	74 mm
MAX OPERATING TEMPERATURE	90 °C
MATERIAL	INOX AISI 316
CONICAL GEARS	FIXED Z=39 ROTATING Z=59
MODULE	1
DIFFUSER SPEED SETTING OPENINGS	4
TESTING DIFFUSER OPENING	X/X/X/X
ROTATION SPEED	SEE CHART
FULL CYCLE	59 ROTATIONS
FULL CYCLE TIME	3 min AT 20 RPM
WEIGHT	9.6 KG



FLOW L/MIN		DIFFUSER OPENING				
		3	3/6	3/6/9	3/6/9/12	
60	18	8				
80	24	18	13			
100		22	16			
120		27	20	16		
SPINNING SPEED RPM						



RUGOSITA' (UNI 4600)	MODIFICA	1	2	3	4	5
	FOGLIO	XXXX				
	DATA	XX.XX.XX				
	TOLLERANZE GENERALI classe m UNI-EN 22768/1	0÷6	6÷30	30÷120	120÷400	400÷1000
GREZZO						
SGROSS.						
Δ = Δ						
FINITURA						
Δ = Δ						
RETTIFICA						
Δ = Δ						
DESCRIZIONE: XB 100 A	INSTALLATION DRAWING					
CODICE: XB 100 A						

CLEANING HEADS
MONTECCHIO E. (RE) – ITALY

DISIGN.: CR

CONTR.: DM

MOD.

DATA: 28.04.09

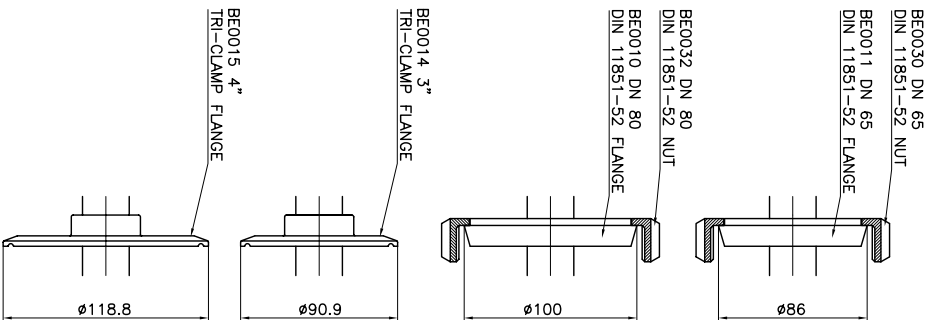
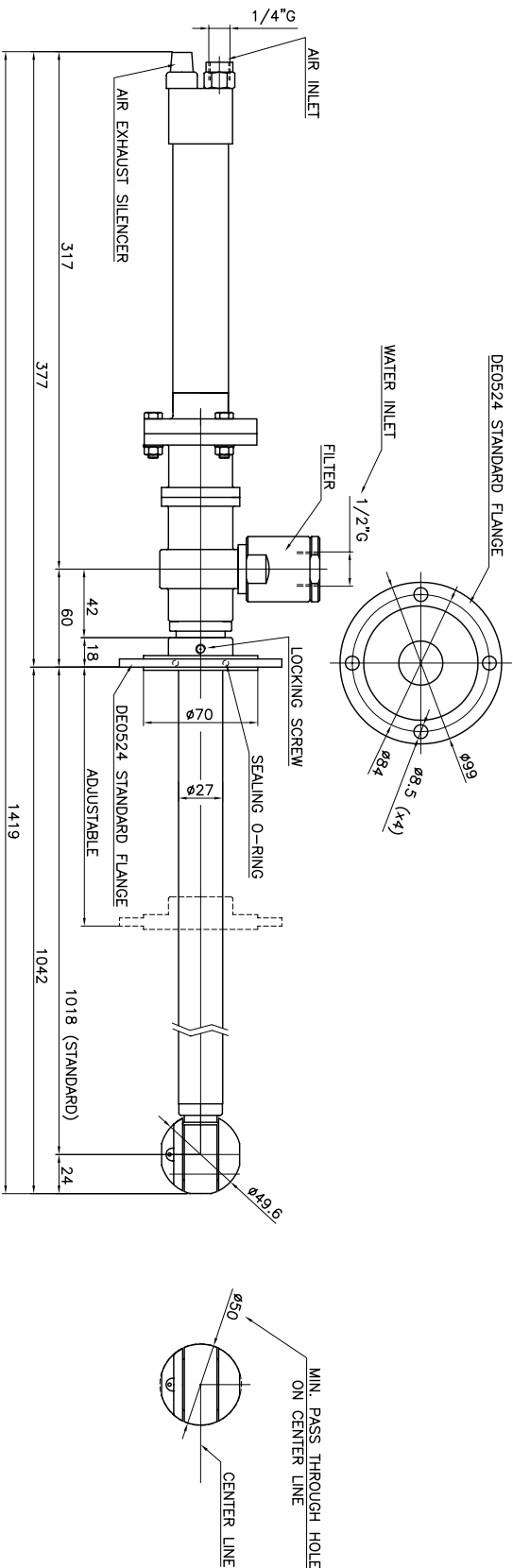
SCALE 1:3

A4

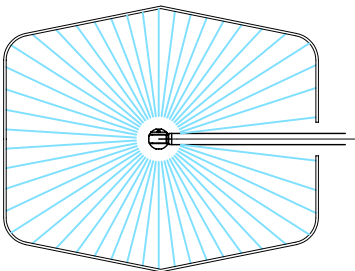
O

ROTATION SPEED AIR PRESSURE AND CONSUMPTION					
19 RPM	1 bar	155 L/min			
28 RPM	2 bar	230 L/min			
33 RPM	3 bar	275 L/min			
37 RPM	4 bar	320 L/min			
40 RPM	5 bar	360 L/min			
51 RPM	6 bar	395 L/min			

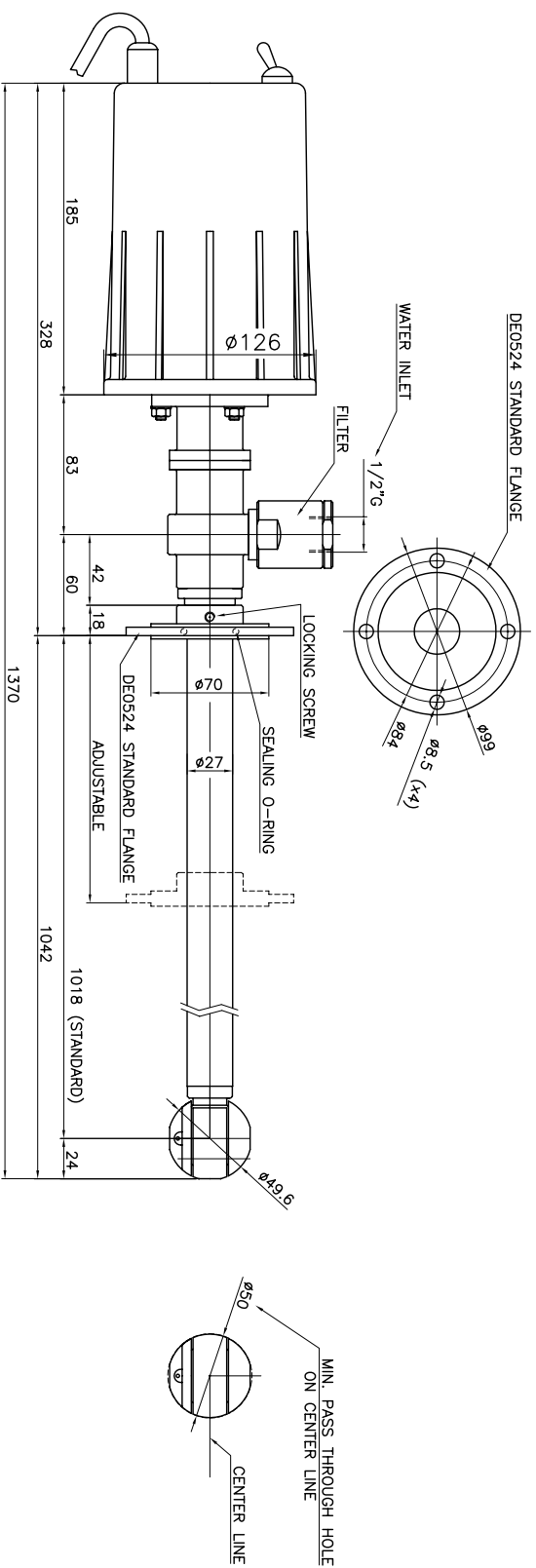
TECHNICAL DATA	
O-RING	NBR – EPDM – VITON
SLIPPER	PTFE+CARBON FIBRE
BUSHING	ALSI 316
FILTER	700 MICRON
NOZZLES POSITIONS	2 – 4
NOZZLES THREAD	SPECIAL XB 060
TESTING NOZZLES	0 x DIA. 00.0
OPERATING FLOW RANGE	0 – 60 L/min
TESTING FLOW	00 L/min
OPERATING PRESSURE RANGE	0 – 200 bar
TESTING PRESSURE	000 bar
CENTER LINE MIN PASS THROUGH HOLE	50 mm
MANUAL MIN PASS THROUGH HOLE	50 mm
PIPE LENGHT	1018 mm (STANDARD)
MAX OPERATING TEMPERATURE	90 °C
MATERIAL	INOX ALSI 316
CONICAL GEARS	FIXED Z=29 ROTATING Z=31
MODULE	1
FULL CYCLE	31 ROTATIONS
FULL CYCLE TIME	1 min AT 3 BAR AIR PRESSURE
AIR MOTOR	BA0705 FIAM M15Z
AIR EXHAUST	WITH SILENCER
ROTATION SPEED	SEE CHART
WEIGHT	7.5 KG



RUGOSITA' (UNI 4600)	MODIFICA	1	2	3	4	5
GREZZO	FOGLIO DATA	XXXX	XX XX XX			
$\sim = \varnothing$	TOLLERANZE GENERALI classe m	UNI-EN 22768/1				
SGROSS. $3.2/\sqrt{\quad}$	0÷6 ±0.1 ±0.2 ±0.3 ±0.5 ±0.8 ±1.2					
FINITURA $1.6/\sqrt{\quad}$	NOTE:					
RETTIFICA $0.8/\sqrt{\quad}$	DESCRIZIONE: XB 061 P APPLICATION DRAWING					
	SCALA 1:3	A3	O			
	CODICE: XB 061 P					

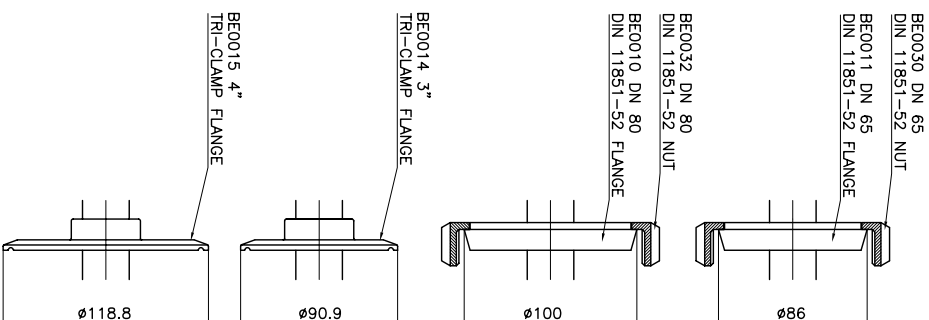


MONTECCHIO E. (RE) - ITALY
DISIGN.: CR I CONTR.: DM
DATA: 06.07.09 MOD.

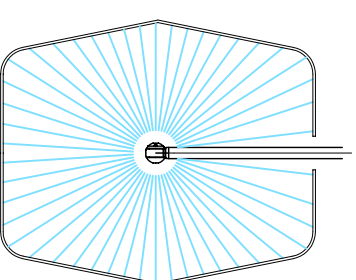


TECHNICAL DATA

O-RING	NBR - EPDM - VITON
SLIPPER	PTFE+CARBON FIBRE
BUSHING	ALSI 316
FILTER	700 MICRON
NOZZLES POSITIONS	2 - 4
NOZZLES THREAD	SPECIAL XB 060
TESTING NOZZLES	0 x DIA. 00.0
OPERATING FLOW RANGE	0 - 60 L/min
TESTING FLOW	00 L/min
OPERATING PRESSURE RANGE	0 - 200 bar
TESTING PRESSURE	000 bar
CENTER LINE MIN PASS THROUGH HOLE	50 mm
MANUAL MIN PASS THROUGH HOLE	50 mm
PIPE LENGTH	1018 mm (STANDARD)
MAX OPERATING TEMPERATURE	90 °C
MATERIAL	INOX ALSI 316
CONICAL GEARS	FIXED Z=29 ROTATING Z=31
MODULE	1
FULL CYCLE	31 ROTATIONS
FULL CYCLE TIME	1.5 min
ELECTRIC MOTOR	BB0015
ELECTRIC MOTOR VOLT	24V DC/AC
WEIGHT	7.5 KG



RUGOSITA' (UNI 4600)	MODIFICA	1	2	3	4	5
GREZZO	FOGLIO	XXXX				
DATA	XX.XX.XX					
TOLLERANZE GENERALI classe m UNI-EN 22768/1						
SGROSS. 3/2	0÷6	6÷30	30÷120	120÷400	400÷1000	1000÷2000
NOTE:	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2
FINITURA 1.6						
RETTIFICA 0.8						
DESCRIZIONE: XB 061 E APPLICATION DRAWING						
CODICE: XB 061 E						



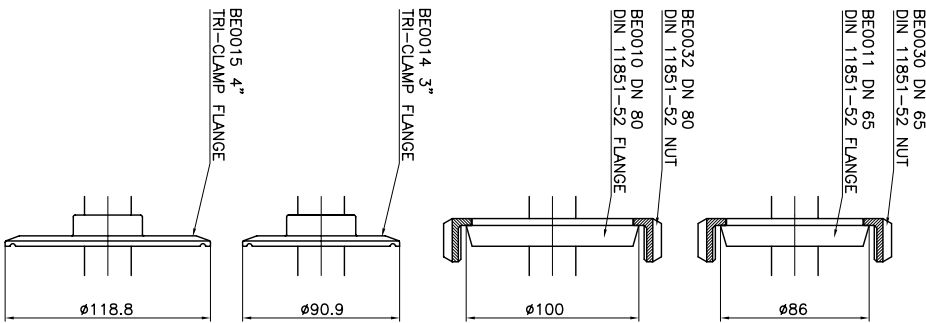
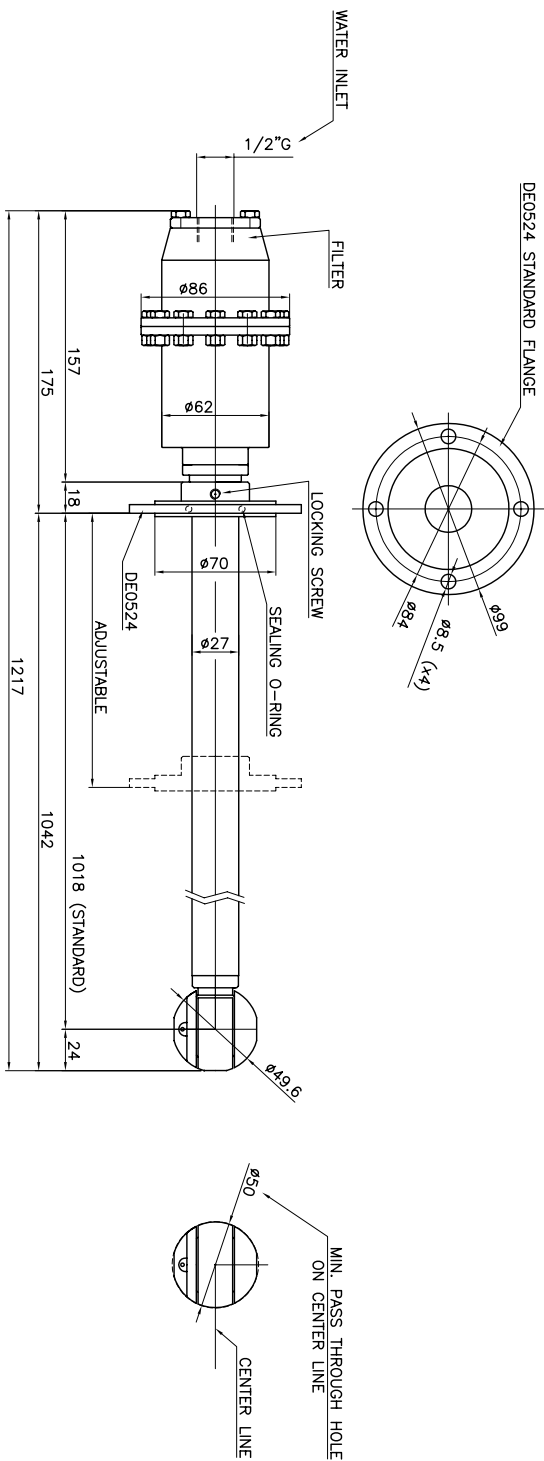
Bonomi
CLEANING HEADS
MONTECCHIO E. (RE) - ITALY
DISIGN.: CR I CONTR.: DM
DATA: 06.07.09 MOD.

DIFFUSER CODE - HOLES	
10	DF0401 - 6x1.50
15	DF0403 - 12x2.30
20	DF0403 - 12x2.30
25	DF0405 - 12x2.70
30	DF0406 - 12x3.00
35	DF0408 - 12x3.40
40	DF0419 - 18x3.20
45	DF0419 - 18x3.20
50	DF0420 - 18x3.40
55	DF0420 - 18x3.40
60	DF0420 - 18x3.40

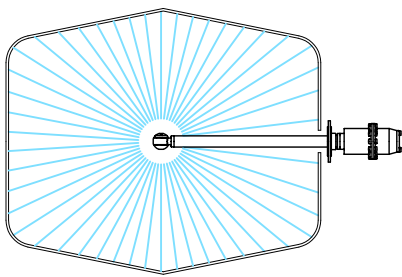
FLOW L/MIN	
10	DF0401 - 6x1.50
15	DF0403 - 12x2.30
20	DF0403 - 12x2.30
25	DF0405 - 12x2.70
30	DF0406 - 12x3.00
35	DF0408 - 12x3.40
40	DF0419 - 18x3.20
45	DF0419 - 18x3.20
50	DF0420 - 18x3.40
55	DF0420 - 18x3.40
60	DF0420 - 18x3.40

TECHNICAL DATA

O-RING	NBR - EPDM - VITON
SLIPPER	PTFE+CARBON FIBRE
BUSHING	ASSI 316
FILTER	700 MICRON
NOZZLES POSITIONS	2 - 4
NOZZLES THREAD	SPECIAL XB 060
TESTING NOZZLES	0 x DIA. 00.0
OPERATING FLOW RANGE	10 - 60 L/min
TESTING FLOW	00 L/min
OPERATING PRESSURE RANGE	0 - 150 bar
TESTING PRESSURE	000 bar
CENTER LINE MIN PASS THROUGH HOLE	50 mm
MANUAL MIN PASS THROUGH HOLE	50 mm
PIPE LENGHT	1018 mm (STANDARD)
MAX OPERATING TEMPERATURE	90 °C
MATERIAL	INOX ASSI 316
CONICAL GEARS	FIXED Z=29 ROTATING Z=31
MODULE	1
ROTATION SPEED RANGE	15 TO 25 RPM
TESTING DIFFUSER CODE	DF0000 (SEE CHART)
FULL CYCLE	31 ROTATIONS
FULL CYCLE TIME	1.5 min AT 20 RPM
WEIGHT	3.2 KG

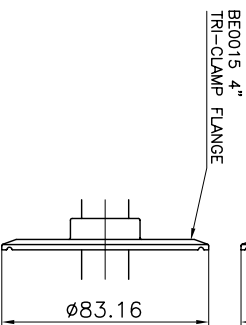
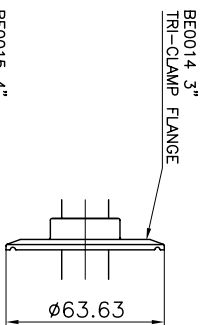
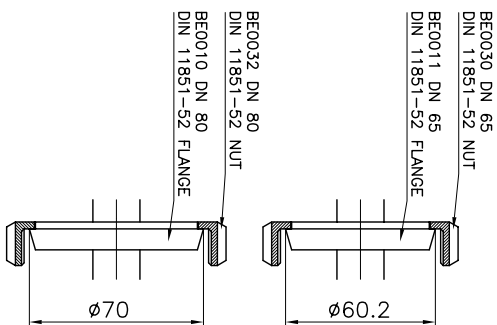
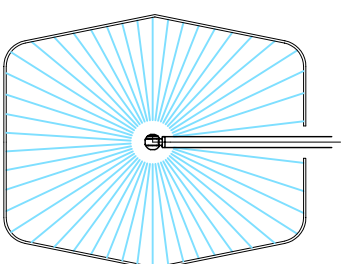
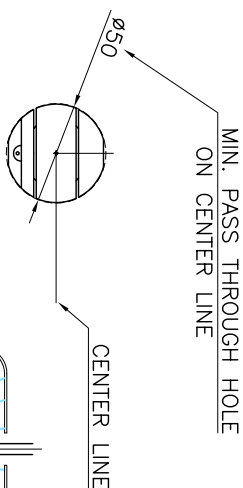
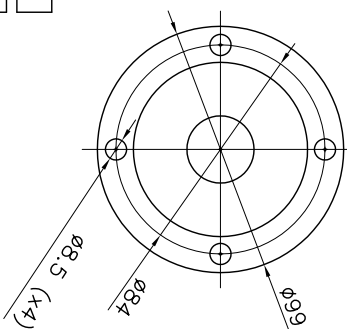
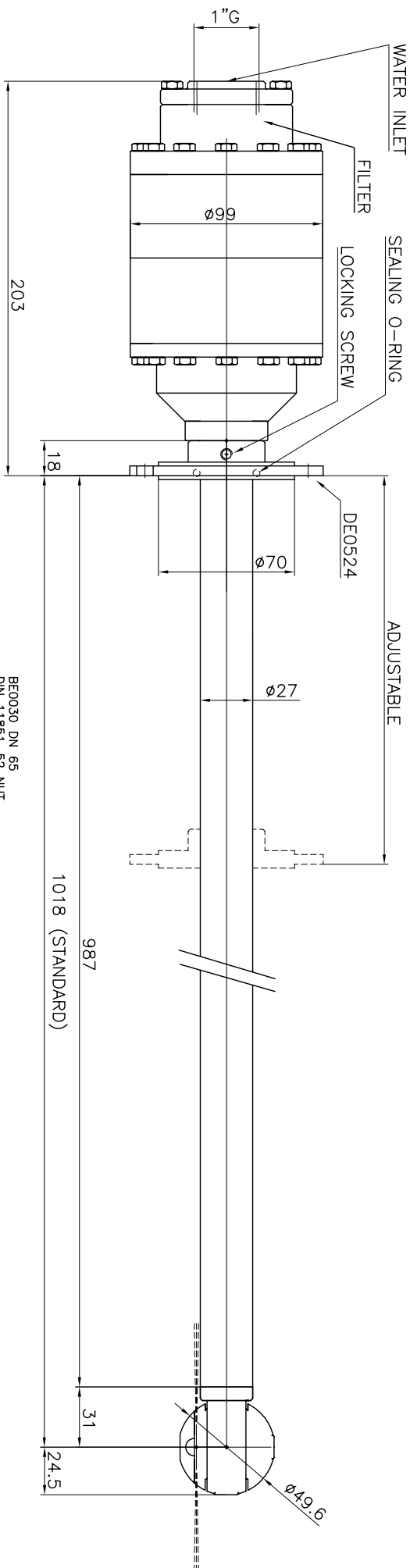


RUGOSITA' (UNI 4600)	MODIFICA	1	2	3	4	5
FOGLIO	XXXX					
GREZZO	DATA	XX.XX.XX				
TOLLERANZE GENERALI classe m UNI-EN 22768/1						
SGROSS. 3/2	0÷6	6÷30	30÷120	120÷400	400÷1000	1000÷2000
NOTE:	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2
FINITURA 1.6						
RETTIFICA 0.8						
DESCRIZIONE: XB 061 A APPLICATION DRAWING						
CODICE: XB 061 A						



Bobnelli
CLEANING HEADS
MONTECCHIO E. (RE) - ITALY
DISIGN.: CR ICONTR.: DM
DATA: 06.07.09 MOD.

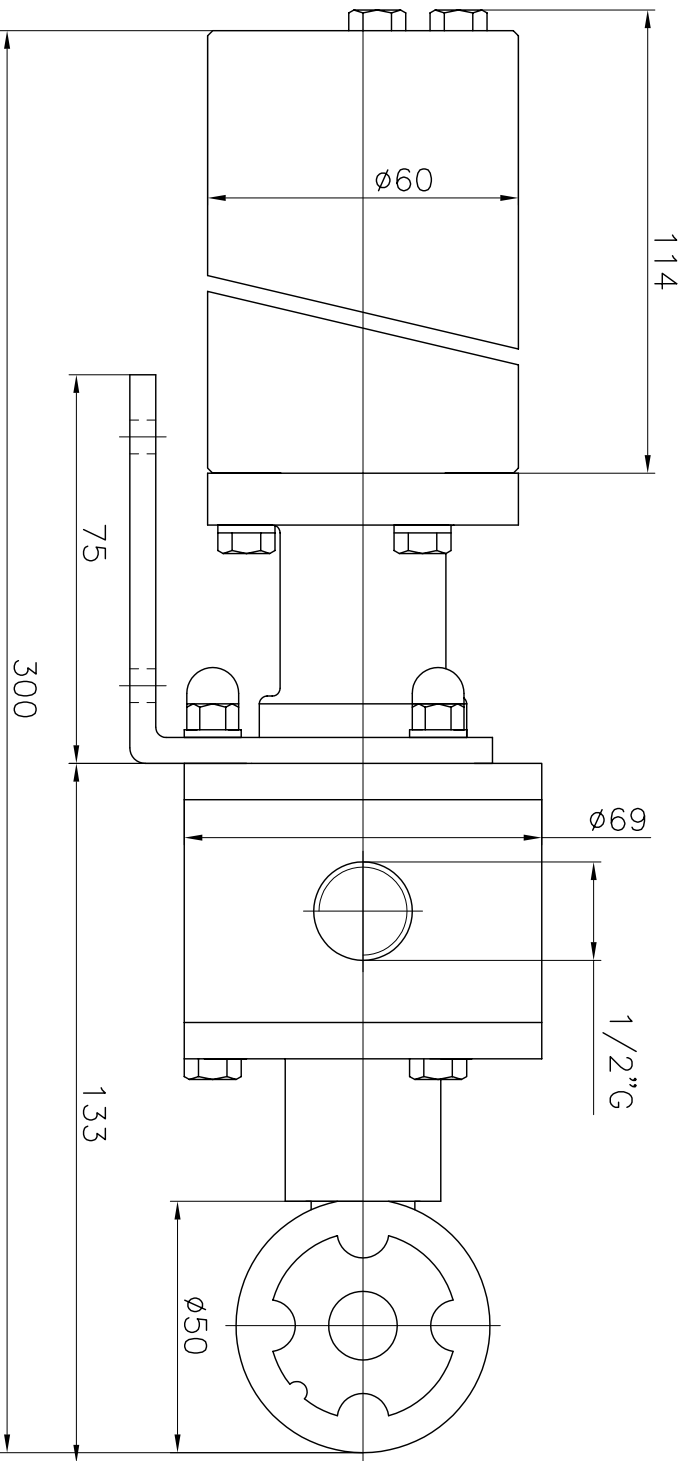
SCALA 1:3 A3 O



TECHNICAL DATA	
O.RING	NBR - EPDM - VITON
SLIPPER	PTFE+CARBON FIBRE
FILTER	700 MICRON
NOZZLES POSITIONS	2/4
NOZZLES TYPE	SPECIAL NOZZLE XB060
OPERATING FLOW MAX	60 L/min
OPERATING PRESSURE MAX	200 bar
MAX OPERATING TEMPERATURE	90 °C
MATERIAL	INOX AISI 316
CONICAL GEARS	FIXED Z=23 ROTATING Z=25
MODULE	1
COMPLETE CYCLE	25 ROTATIONS
COMPLETE CYCLE TIME	1.1 MIN.
ROTATION SPEED	24 RPM
WEIGHT	7.5 KG

RUGOSITA' (UNI 4600)	MODIFICA	1	2	3	4	5
FOGLIO	XXXX					
GREZZO	DATA	XX.XX.XX				
TOLLERANZE GENERALI classe m UNI-EN 22768/1	0±6	6±30	30±120	120±400	400±1000	1000±2000
SGROSS. 3/2	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2
FINITURA	NOTE:					
RETIFICA	DESCRIZIONE: APPLICATION DRAWING					
VVV = 0.8/	XB 061 AAH					
	CODE: XB 061AAH					
	SCALE 1:3 A4 O					
	DISIGN: CR CONTR: DM					
	DATA: 18.12.06 MOD.					

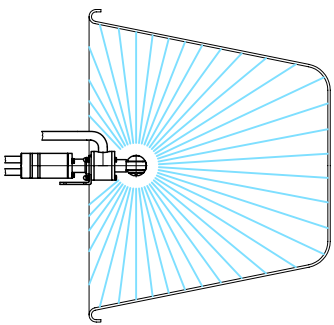
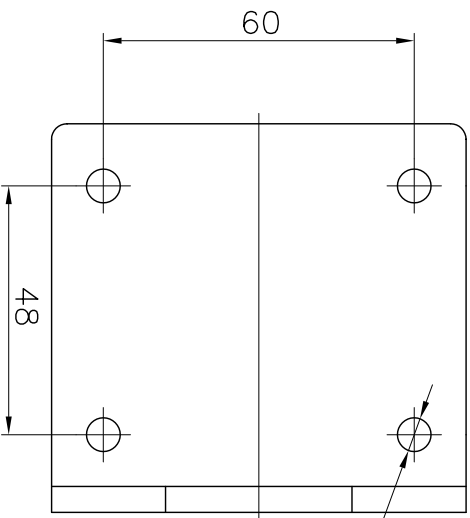




n4 fori Ø6.5

flangiatura: coassiale o laterale
materiale: inox 316
motore: idraulico
portata max: 60 l/min
pressione max: 200 bar
temperatura max: 90°C
tenute: nbr
portagelli: 2-4 vie

flanging: lateral or coaxial
materials: stainless steel 316
motor: hydraulic
flow max: 60 l/min
pressure max: 200 bar
temperature max: 90°C
seals: nbr
nozzle holder: 2-4 holes

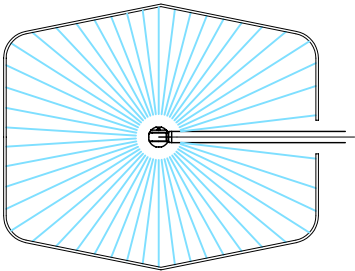
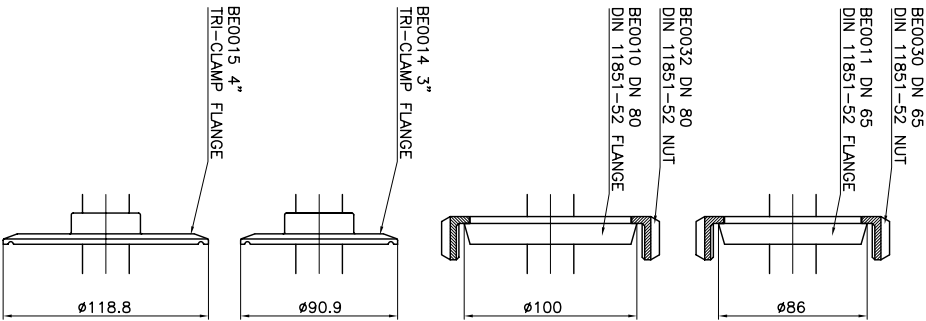
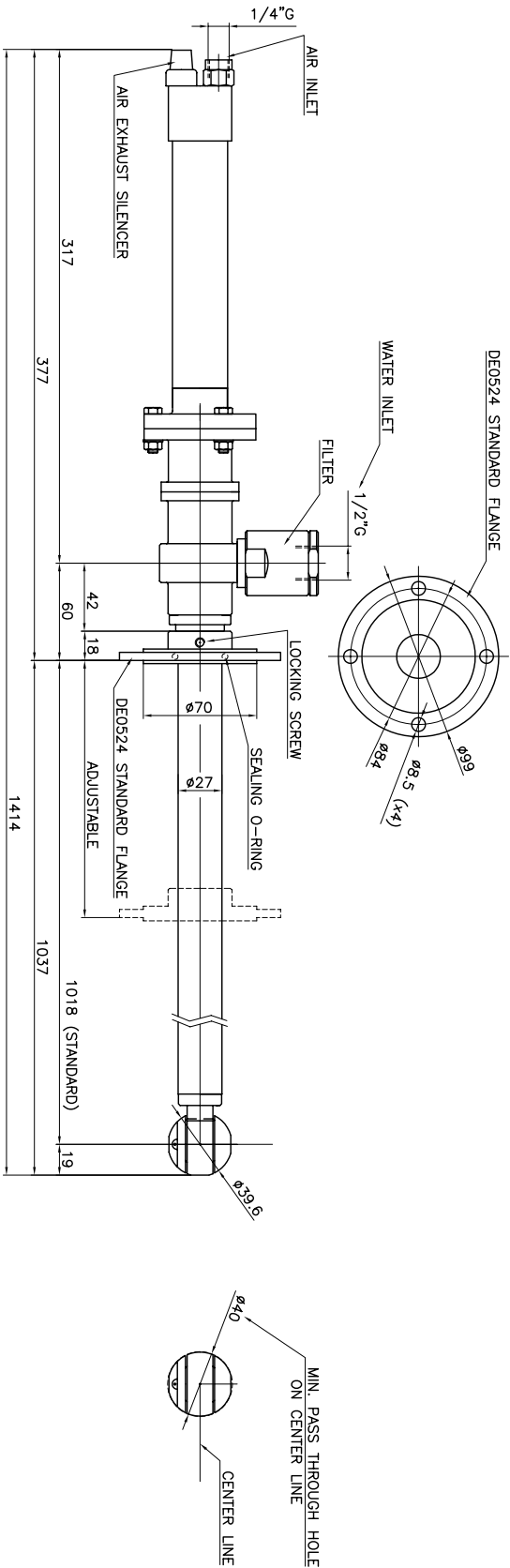


RUGOSITÀ (UNI 4600)	MODIFICA	1	2	3	4	5
	FOGLIO	XXXX				
	DATA	XX.XX.XX				
	TOLLERANZE GENERALI	classe m	UNI-EN 22768/1			
	0÷6	6÷30	30÷120	120÷400	400÷1000	1000÷2000
GREZZO	~ = √	±0.1	±0.2	±0.3	±0.5	±0.8
SGROSS.	3/2 = √	±0.1	±0.2	±0.3	±0.5	±0.8
NOTE:	VERSIONE 04					
FINITURA	1.6/ √					
RETTIFICA	0.8/ √					
VVV = √						
DESCRIZIONE: APPLICATION DRAWING						
CODICE: XB 060HY						

Boonell		
CLEANING HEADS		
MONTECCHIO E. (RE) - ITALY		
DISIGN.: SN	CONTR.: DM	MOD.
DATA: 01.01.05		
SCALA	1:1	A3
		0

ROTATION SPEED AIR PRESSURE AND CONSUMPTION					
19 RPM	1 bar	155 L/min			
28 RPM	2 bar	230 L/min			
33 RPM	3 bar	275 L/min			
37 RPM	4 bar	320 L/min			
40 RPM	5 bar	360 L/min			
51 RPM	6 bar	395 L/min			

TECHNICAL DATA	
O-RING	NBR – EPDM – VITON
SLIPPER	PTFE+CARBON FIBRE
BUSHING	ALSI 316
FILTER	700 MICRON
NOZZLES POSITIONS	2 – 4
NOZZLES THREAD	SPECIAL XB 030
TESTING NOZZLES	0 x DIA. 00.0
OPERATING FLOW RANGE	0 – 30 L/min
TESTING FLOW	00 L/min
OPERATING PRESSURE RANGE	0 – 200 bar
TESTING PRESSURE	000 bar
CENTER LINE MIN PASS THROUGH HOLE	40 mm
MANUAL MIN PASS THROUGH HOLE	40 mm
PIPE LENGHT	1018 mm (STANDARD)
MAX OPERATING TEMPERATURE	90 °C
MATERIAL	INOX AISI 316
CONICAL GEARS	FIXED Z=23 ROTATING Z=25
MODULE	1
FULL CYCLE	25 ROTATIONS
FULL CYCLE TIME	1 min AT 3 BAR AIR PRESSURE
AIR MOTOR	BA0705 FIAM M15Z
AIR EXHAUST	WITH SILENCER
ROTATION SPEED	SEE CHART
WEIGHT	7.5 KG

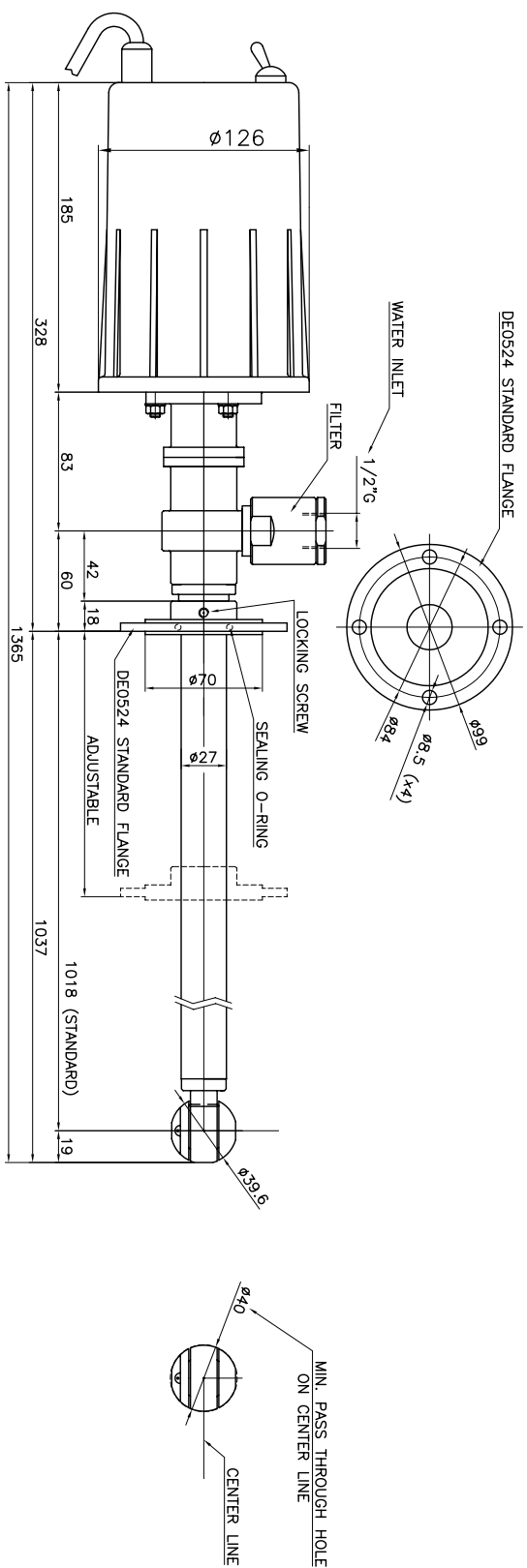


RUGOSITA' (UNI 4600)	MODIFICA	1	2	3	4	5
GREZZO	FOGLIO	XXXX				
DATA	DATA	XX.XX.XX				
TOLLERANZE GENERALI classe m UNI-EN 22768/1						
SGROSS. 3.2/		0÷6	6÷30	30÷120	120÷400	400÷1000
NOTE:		±0.1	±0.2	±0.3	±0.5	±0.8
FINITURA 1.6/						±1.2
RETTIFICA 0.8/						
DESCRIZIONE: XB 031 P APPLICATION DRAWING						
CODICE: XB 031 P						

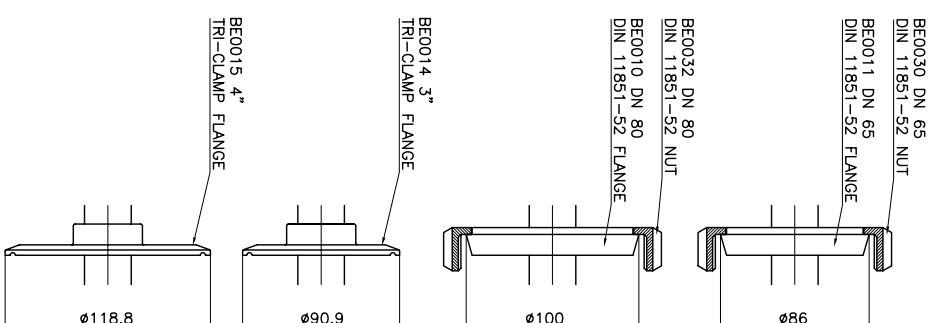


MONTECCHIO E. (RE) - ITALY
DISIGN.: CR I CONTR.: DM
DATA: 06.07.09 MOD.

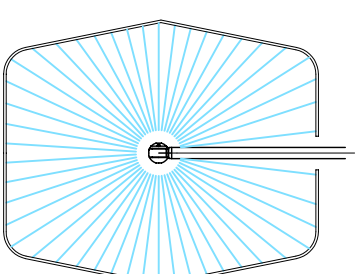
SCALE 1:3 A3 O



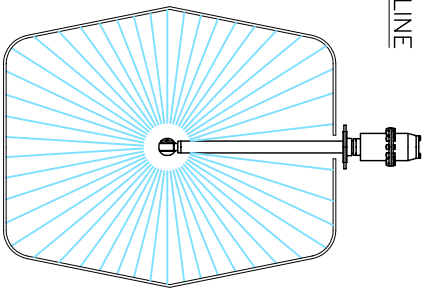
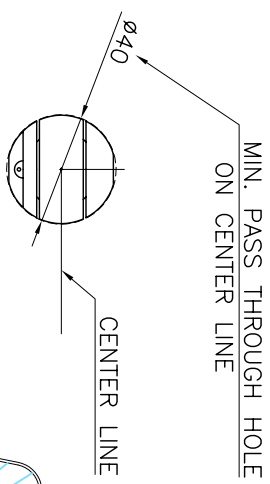
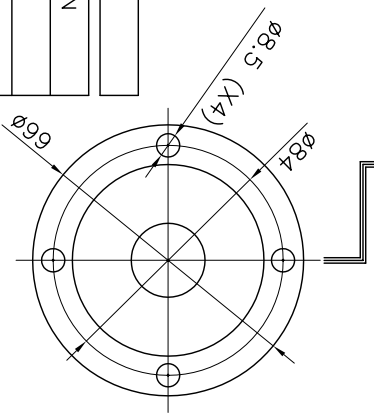
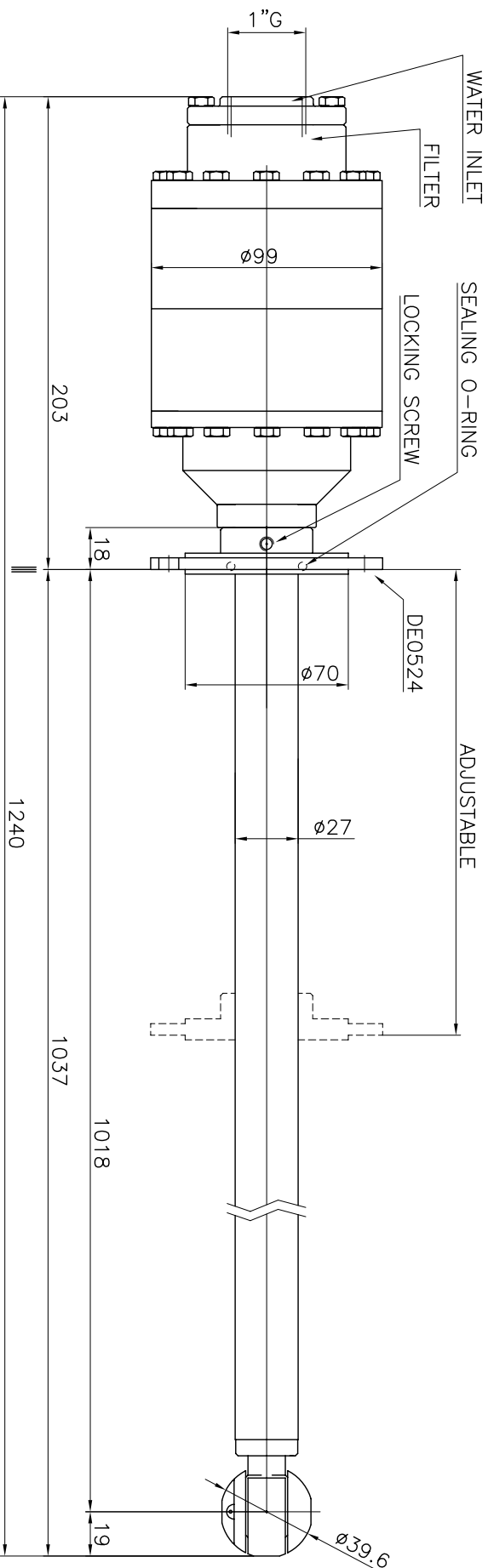
TECHNICAL DATA	
O-RING	NBR – EPDM – VITON
SLIPPER	PTFE+CARBON FIBRE
BUSHING	ALSI 316
FILTER	700 MICRON
NOZZLES POSITIONS	2 – 4
NOZZLES THREAD	SPECIAL XB 030
TESTING NOZZLES	0 x DIA. 00.0
OPERATING FLOW RANGE	0 – 30 L/min
TESTING FLOW	00 L/min
OPERATING PRESSURE RANGE	0 – 200 bar
TESTING PRESSURE	000 bar
CENTER LINE MIN PASS THROUGH HOLE	40 mm
MANUAL MIN PASS THROUGH HOLE	40 mm
PIPE LENGTH	1018 mm (STANDARD)
MAX OPERATING TEMPERATURE	90 °C
MATERIAL	INOX ALSI 316
CONICAL GEARS	FIXED Z=23 ROTATING Z=25
MODULE	1
FULL CYCLE	25 ROTATIONS
FULL CYCLE TIME	1.5 min
ELECTRIC MOTOR	BB0015
ELECTRIC MOTOR VOLT	24V AC/DC
WEIGHT	7.5 KG



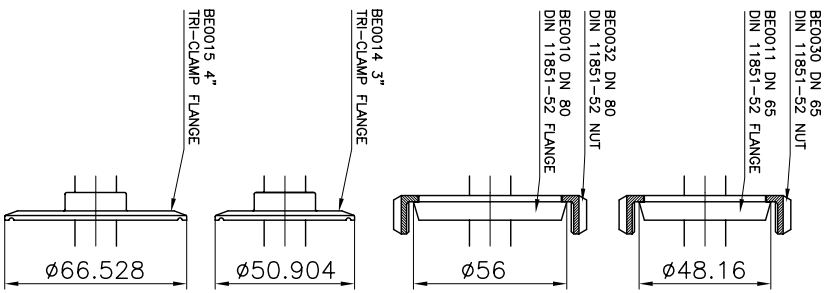
RUGOSITA' (UNI 4600)	MODIFICA	1	2	3	4	5
GREZZO	FOGLIO	XXXX				
~ = Ø	DATA	XX.XX.XX				
SGROSS. 3/2	TOLLERANZE GENERALI classe m	UNI-EN 22768/1				
∇ = 3/2	0÷6	6÷30	30÷120	120÷400	400÷1000	1000÷2000
FINITURA 1.6/	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2
RETIFICA 0.8/	NOTE:					
∇∇ = 1.6/	DESCRIZIONE:	XB 031 E APPLICATION DRAWING				
∇∇∇ = 0.8/	SCALA	1:3 A3 0				
	CODICE:	XB 031 E				



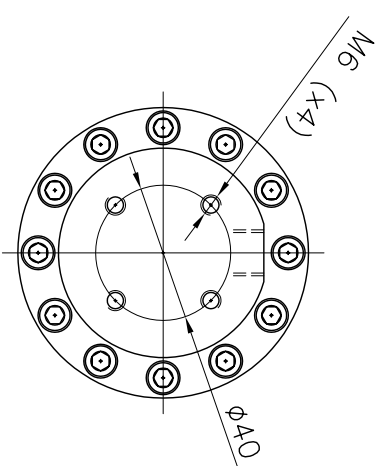
Bonomi
CLEANING HEADS
MONTECCHIO E. (RE) - ITALY
DISIGN.: CR I CONTR.: DM
DATA: 06.07.09 MOD.



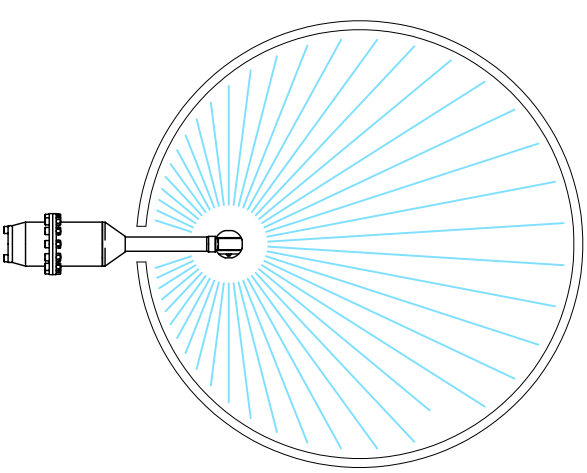
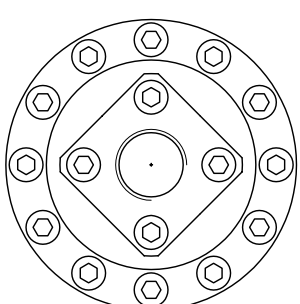
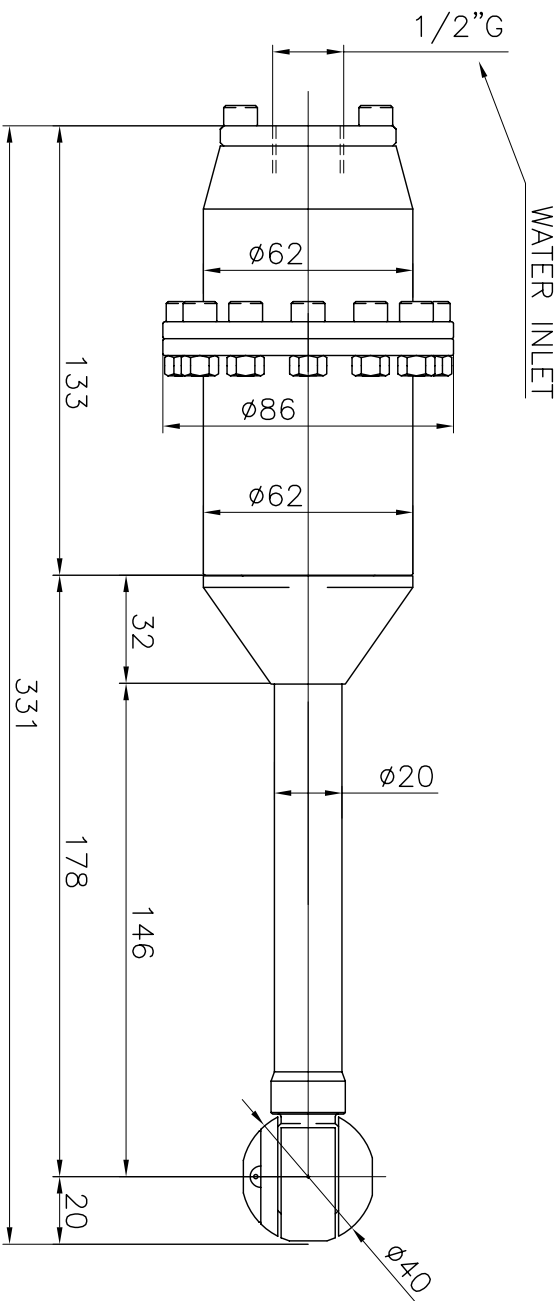
TECHNICAL DATA	
O.RING	NBR – EPDM – VITON
SLIPPER	PTFE+CARBON FIBRE
FILTER	700 MICRON
NOZZLES POSITIONS	2 – 4
NOZZLES TYPE	SPECIAL XB 030
MAX OPERATING FLOW	30 L/min
MAX OPERATING PRESSURE	200 bar
MAX OPERATING TEMPERATURE	90 °C
MATERIAL	INOX AISI 304
CONICAL GEARS	FIXED Z=23 ROTATING Z=25
MODULE	1
COMPLETE CYCLE	25 ROTATIONS
COMPLETE CYCLE TIME	1.1 MIN.
ROTATION SPEED	24 RPM
WEIGHT	7.5 KG



RUGOSITA' (UNI 4600)	MODIFICA	1	2	3	4	5
FOGLIO	xxxx					
GREZZO	DATA	xx.xx.xx				
TOLLERANZE GENERALI disegni	mm	UNI-EN 22768/1				
±0.1	±0.2	±0.3	±0.5	±0.8	±1.2	
SGROSS: 1/2	NOTE:					
V = V						
FINITURA 1/8						
VV = V						
RETTIFICA						
VVV = V						
DESCRIZIONE: APPLICATION DRAWING						
XB 031 AAH						
COODICE: XB 031 AAH						
SCALE: 1:3						
A4						
O						
DISIGN.: CR1 CONTR.: DM						
DATA: 18.05.09						
MONTECHIO E. (RE) - ITALY						
MOD.						



RUGOSITA' (UNI 4600)	MODIFICA	1	2	3	4	5	
	FOGLIO	XXXX					
	DATA	XX.XX.XX					
	TOLLERANZE GENERALI classe m UNI-EN 22768/1						
	0÷6	6÷30	30÷120	120÷400	400÷1000	1000÷2000	
SGROSS.	~ =	± 0.1	± 0.2	± 0.3	± 0.5	± 0.8	± 1.2
∇ =	3.2/	NOTE:					
FINITURA	1.6/	DESCRIZIONE: APPLICATION DRAWING XB 031AAE_BQ.01					
∇∇ =	∇/						
RETTIFICA	0.8/						
∇∇∇ =	∇/						
 CLEANING HEADS MONTECCHIO E. (RE) - ITALY							
DISEGN.: CR		CONTR.: DM					
DATA: 27.08.08				MOD.			
SCALA		1:2		A4		O	
CODICE: XB 031AAE_BQ.01							



TECHNICAL DATA

O.RING	EPDM
SLIPPER	PTFE+CARBON FIBRE
FILTER	NONE
NOZZLES POSITIONS	2 OR 4
NOZZLES TYPE	SPECIAL NOZZLE XB 030
MAX OPERATING FLOW	30 L/min – 8 USG/min
MAX OPERATING PRESSURE	150 bar – 2100 psi
MAX OPERATING TEMPERATURE	90 °C – 194°F
MATERIAL	INOX AISI 316
LUBRICANTS	NONE
CONICAL GEARS	FIXED Z=23 ROTATING Z=25
MODULE	1
COMPLETE CYCLE	25 ROTATIONS
COMPLETE CYCLE TIME	1.1 MIN.
ROTATION SPEED	24 RPM
WEIGHT	4.6 KG – 10 LBS

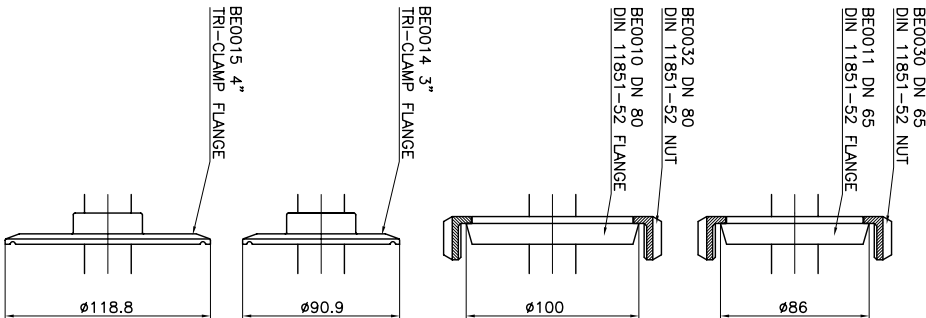
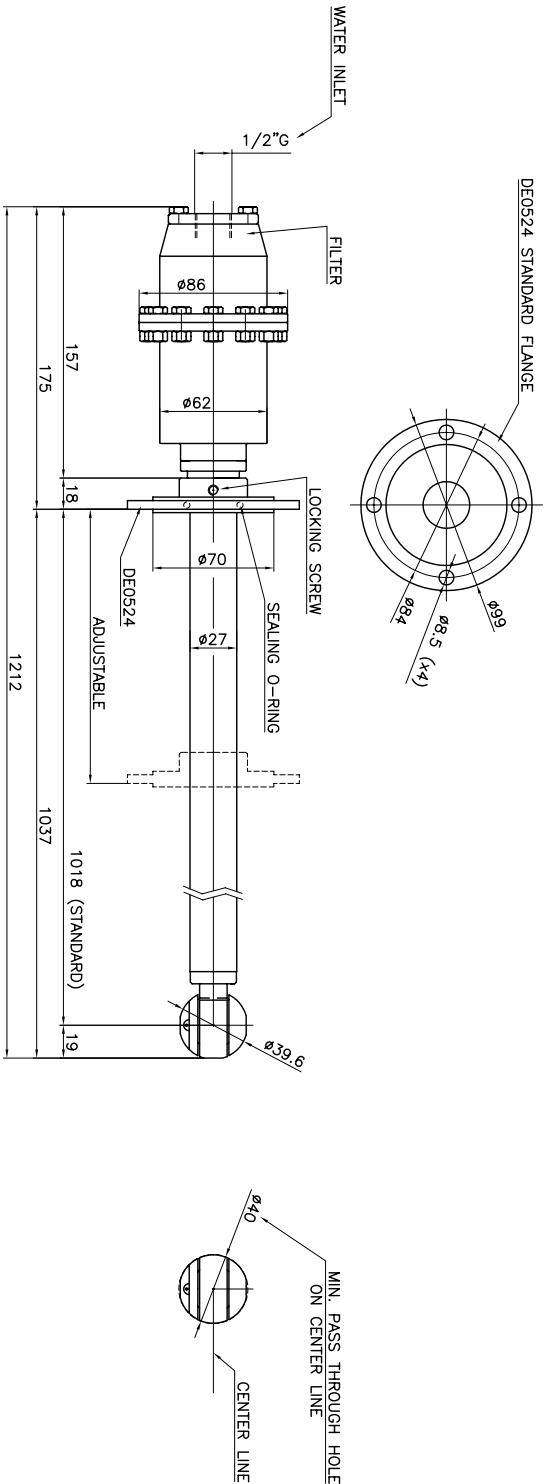
RUGOSITA' (UNI 4600)	MODIFICA	1	2	3	4	5
	FOGLIO	XXXX				
	DATA	XX.XX.XX				
	TOLLERANZE GENERALI classe m UNI-EN 22768/1					
GREZZO ~ = φ	0÷6	6÷30	30÷120	120÷400	400÷1000	1000÷2000
SGROSS. ∇ = $\frac{3,2}{\sqrt{V}}$	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2
NOTE:						
FINITURA $\nabla \nabla$ = $\frac{1,6}{\sqrt{V}}$	DESCRIZIONE: APPLICATION DRAWING					
RETTIFICA $\nabla \nabla \nabla$ = $\frac{0,8}{\sqrt{V}}$	XB 031AAD_BQ 01					
CODICE:						
XB 031AAD_BQ 01						
SCALA						
1:2		A4		O		
DISIGN.: CR CONTR.: DM						
DATA: 19.12.08						
MOD.						
CLEANING HEADS						
MONTECCHIO E. (RE) - ITALY						

DIFFUSER CODE - HOLES	
10	DF0401 - 6x1.50
15	DF0403 - 12x2.30
20	DF0403 - 12x2.30
25	DF0405 - 12x2.70
30	DF0406 - 12x3.00

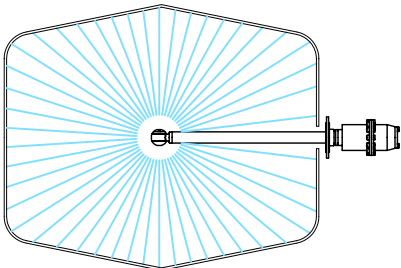
FLOW L/MIN	

TECHNICAL DATA

O-RING	NBR - EPDM - VITON
SLIPPER	PTFE+CARBON FIBRE
BUSHING	AI31 316
FILTER	700 MICRON
NOZZLES POSITIONS	2 - 4
NOZZLES THREAD	SPECIAL XB 030
TESTING NOZZLES	0 x DIA. 00.0
OPERATING FLOW RANGE	10 - 30 L/min
TESTING FLOW	00 L/min
OPERATING PRESSURE RANGE	0 - 150 bar
TESTING PRESSURE	000 bar
CENTER LINE MIN PASS THROUGH HOLE	40 mm
MANUAL MIN PASS THROUGH HOLE	40 mm
PIPE LENGHT	1018 mm (STANDARD)
MAX OPERATING TEMPERATURE	90 °C
MATERIAL	INOX AISI 316
CONICAL GEARS	FIXED Z=23 ROTATING Z=25
MODULE	1
ROTATION SPEED RANGE	15 TO 25 RPM
TESTING DIFFUSER CODE	DF0000 (SEE CHART)
FULL CYCLE	25 ROTATIONS
FULL CYCLE TIME	1.2 min AT 20 RPM
WEIGHT	3.2 KG



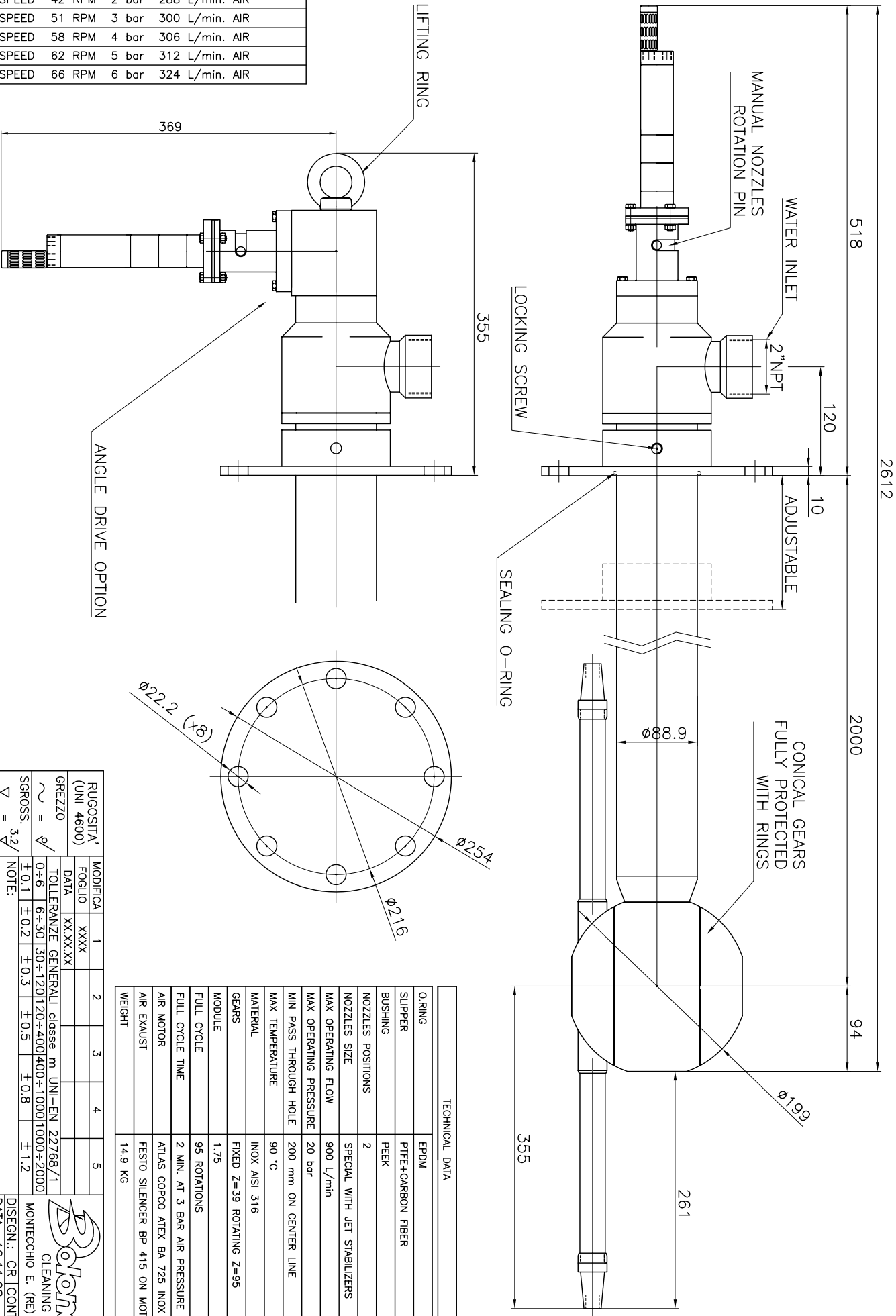
RUGOSITA' (UNI 4600)	MODIFICA	1	2	3	4	5
GREZZO	FOGLIO	XXXX				
~ = ø	DATA	XX.XX.XX				
SGROSS. 3/2	TOLLERANZE GENERALI classe m UNI-EN 22768/1					
∇ = 3/2	0÷6 6÷30 30÷120 120÷400 400÷1000 1000÷2000					
∇∇ = 1.6/	±0.1 ±0.2 ±0.3 ±0.5 ±0.8 ±1.2					
∇∇∇ = 0.8/	NOTE:					
RETTIFICA	DESCRIZIONE: XB 031 A					
∇∇∇ = 0.8/	APPLICATION DRAWING					
	CODICE: XB 031 A					



CLEANING HEADS
MONTECCHIO E. (RE) - ITALY
DISIGN.: CR ICONTR.: DM
DATA: 06.07.09 MOD.

SCALA 1:3 A3 0

AIR PRESSURE AND CONSUMPTION				
ROTATION SPEED	29 RPM	1 bar	264 L/min.	AIR
ROTATION SPEED	42 RPM	2 bar	288 L/min.	AIR
ROTATION SPEED	51 RPM	3 bar	300 L/min.	AIR
ROTATION SPEED	58 RPM	4 bar	306 L/min.	AIR
ROTATION SPEED	62 RPM	5 bar	312 L/min.	AIR
ROTATION SPEED	66 RPM	6 bar	324 L/min.	AIR



TECHNICAL DATA				
O-RING	EPDM			
SLIPPER	PTFE+CARBON FIBER			
BUSHING	PEEK			
NOZZLES POSITIONS	2			
NOZZLES SIZE	SPECIAL WITH JET STABILIZERS			
MAX OPERATING FLOW	900 L/min			
MAX OPERATING PRESSURE	20 bar			
MIN PASS THROUGH HOLE	200 mm ON CENTER LINE			
MAX TEMPERATURE	90 °C			
MATERIAL	INOX AISI 316			
GEARS	FIXED Z=39 ROTATING Z=95			
MODULE	1,75			
FULL CYCLE	95 ROTATIONS			
FULL CYCLE TIME	2 MIN. AT 3 BAR AIR PRESSURE			
AIR MOTOR	ATLAS COPCO ATEX BA 725 INOX			
AIR EXHAUST	FESTO SILENCER BP 415 ON MOTOR			
WEIGHT	14,9 KG			

RUGOSITA' (UNI 4600)	MODIFICA	1	2	3	4	5
GREZZO	FOGLIO	XXXX				
~ = ϕ	DATA	XX.XX.XX				
SGROSS. $\frac{3,2}{\sqrt{}}$	TOLLERANZE GENERALI	classe m	UNI-EN 22768/1			
$\nabla = \frac{3,2}{\sqrt{}}$	0-6	6-30	30-120	120-400	400-1000	1000-2000
	$\pm 0,1$	$\pm 0,2$	$\pm 0,3$	$\pm 0,5$	$\pm 0,8$	$\pm 1,2$
	NOTE:					
FINITURA $\frac{1,6}{\sqrt{}}$	MATERIALE:	INOX				
RETIFICA $\frac{0,8}{\sqrt{}}$	DESCRIZIONE:	XB 900P S1				
$\nabla \nabla \nabla = \frac{\sqrt{}}{\sqrt{}}$	INSTALLATION	DRAWING				
	CODICE:	XB 900P				
	SCALA	1:4	A4	O		
	DATA:	12.11.08				
	DISIGN:	CR I CONTR.: DM				
	MOD.					



CLEANING HEADS

MONTECOHO E. (RE) - ITALY

DISIGN: CR I CONTR.: DM

DATA: 12.11.08

SCALA: 1:4

CODICE: XB 900P

SERIE XC

XC SERIES

TESTINE AUTOROTANTI O MOTORIZZATE PER LAVAGGIO VOLUMETRICO
SELFSPINNING OR MOTOR DRIVEN HEADS FOR VOLUMETRIC CLEANING

TESTINE DI LAVAGGIO VOLUMETRICHE

Disponibili con motore ad acqua, elettrico o pneumatico, per foro accesso minimo di 76mm

VOLUMETRIC CLEANING HEADS

Available with water motor, electric or pneumatic, for min pass through hole of 76mm

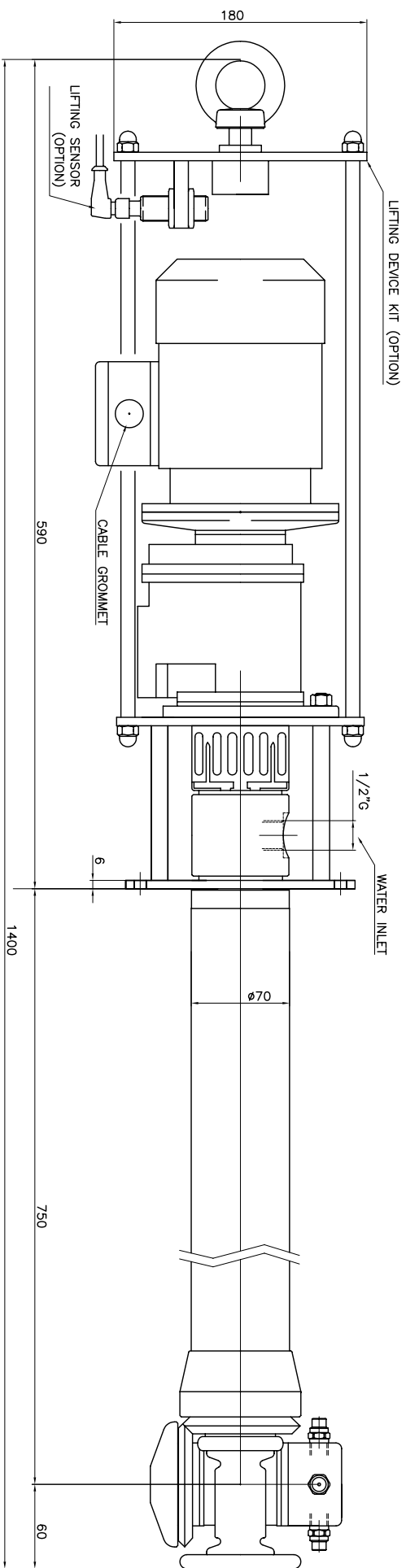


Disponibili in diverse lunghezze fino ad un max. di 6mt; disponibili anche versioni speciali per lavaggio settoriale

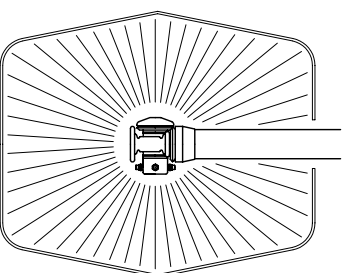
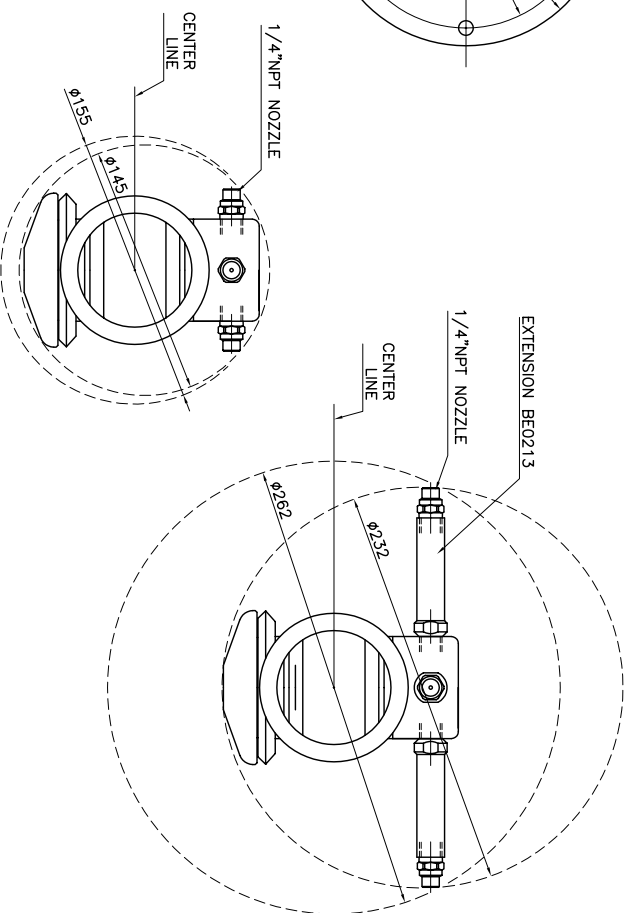
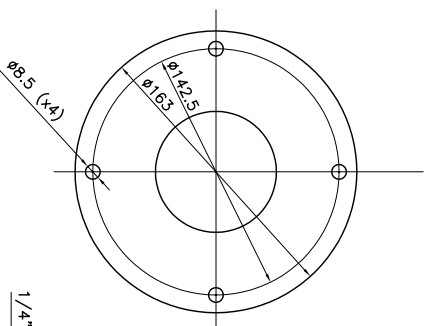
Available in different length till a max. of 6mt; available also special version for sector cleaning



rOtojet



TECHNICAL DATA	
O-RING	NBR – EPDM – VITON
SLIPPER	PTFE+CARBON FIBRE
BUSHING	ASI 316
FILTER	NONE
NOZZLES POSITIONS	2 – 4
NOZZLES THREAD	1/4"NPT
TESTING NOZZLES	0 x 0000
OPERATING FLOW RANGE	0 – 200 L/min
TESTING FLOW	000 L/min
OPERATING PRESSURE RANGE	0 – 200 bar
TESTING PRESSURE	000 bar
CENTER LINE MIN PASS THROUGH HOLE	155 mm W/O EXTENSIONS 262 mm WITH EXTENSIONS
MANUAL MIN PASS THROUGH HOLE	145 mm W/O EXTENSIONS 232 mm WITH EXTENSIONS
PIPE LENGTH	750 mm (STANDARD)
MAX OPERATING TEMPERATURE	90 °C
MATERIAL	INOX AISI 316
CONICAL GEARS	FIXED Z=41 ROTATING Z=43
MODULE	2
FULL CYCLE	43 ROTATIONS
GEARBOX	W/MOTOR BB0743 BB0761 BB0761
ELECTRIC MOTOR	BB0015 BA0102 BA0130 BA0127 EEX
ELECTRIC MOTOR VOLTS	24V AC/DC 230V 50Hz 1ph 400V 50Hz 3ph 400V 50Hz 3ph
ELECTRIC MOTOR AMPS	0.30 A 0.23 A 0.70 A 0.70 A
ROTATION SPEED	17 RPM 14 RPM 20 RPM 20 RPM
FULL CYCLE TIME	2.5 min 3.1 min 2.2 min 2.2 min
WEIGHT	14.2 KG

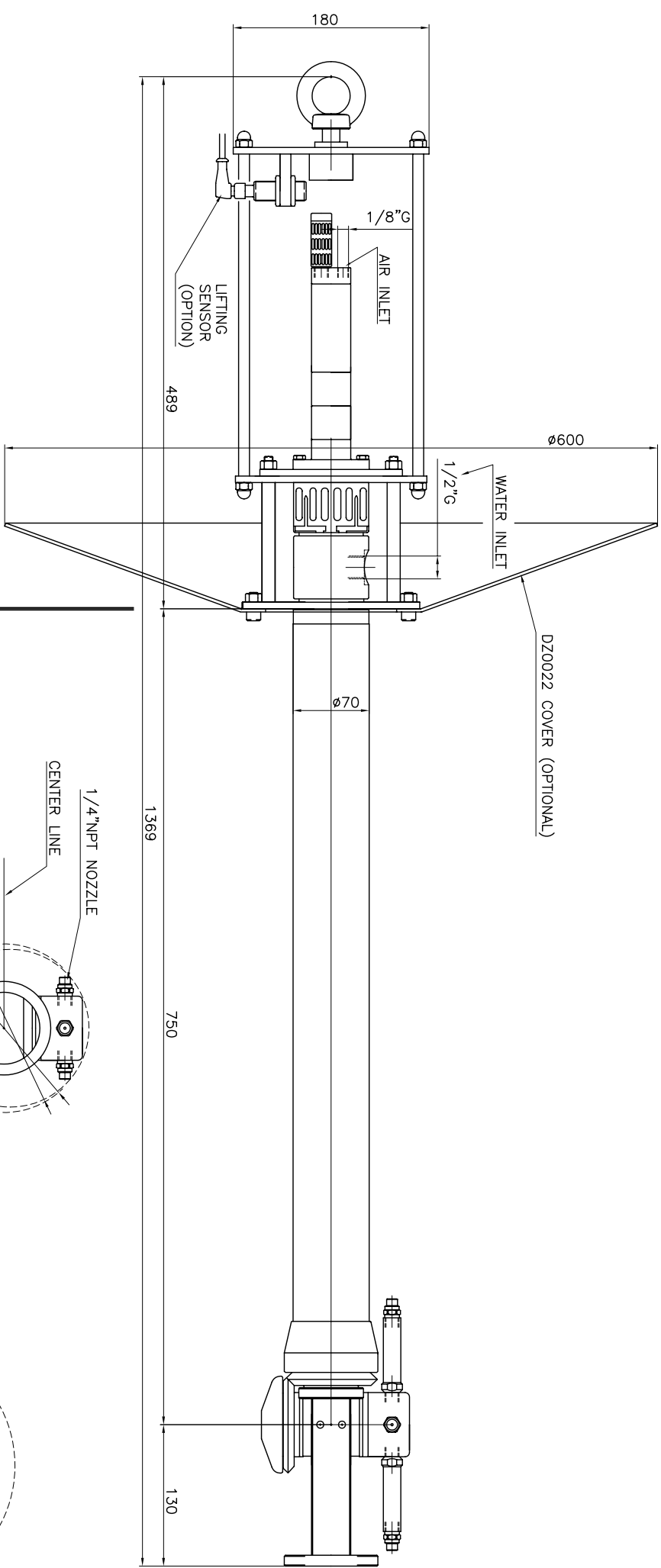


RUGOSITA' (UNI 4600)	MODIFICA	1	2	3	4	5
GREZZO	FOGLIO	XXXX				
~ = Ø	DATA	XX.XX.XX				
SGROSS. 3/2	TOLLERANZE GENERALI classe m	UNI-EN 22768/1				
∇ = 3/2	0÷6	6÷30 30÷120 120÷400 400÷1000 1000÷2000				
NOTE:	±0.1	±0.2 ±0.3 ±0.5 ±0.8 ±1.2				
FINITURA 1.6/	DESCRIZIONE:	XC 200 E APPLICATION DRAWING				
∇∇ = 1.6/						
RETTIFICA 0.8/						
∇∇∇ = 0.8/						



CLEANING HEADS
MONTECOHIO E. (RE) – ITALY
DISEGN.: CR ICONTR.: DM
DATA: 06.10.08 MOD.

SCALA 1:3 A3 0
CODICE: XC 200 E



TECHNICAL DATA

O.RING	EPDM
SLIPPER	PTEE+CARBON FIBER
BUSHING	NICKEL BRONZE 25%
NOZZLES POSITIONS	2 OR 4
NOZZLES SIZE	1/4"NPT
MAX OPERATING FLOW	200 L/min
MAX OPERATING PRESSURE	200 bar
MAX TEMPERATURE	90 °C
MATERIAL	INOX AISI 316
GEARS	FIXED Z=41 ROTATING Z=43
MODULE	2
FULL CYCLE	43 ROTATIONS
FULL CYCLE TIME	1.00 MIN. AT 3 BAR AIR PRESSURE
AIR MOTOR	ATLAS COPCO ATEX BA 725 INOX
AIR EXHAUST	FESTO SILENCER BP 415 ON MOTOR
WEIGHT	X X KG

AIR PRESSURE AND CONSUMPTION

ROTATION SPEED	29 RPM	1 bar	264 L/min. AIR
ROTATION SPEED	42 RPM	2 bar	288 L/min. AIR
ROTATION SPEED	51 RPM	3 bar	300 L/min. AIR
ROTATION SPEED	58 RPM	4 bar	306 L/min. AIR
ROTATION SPEED	62 RPM	5 bar	312 L/min. AIR
ROTATION SPEED	66 RPM	6 bar	324 L/min. AIR

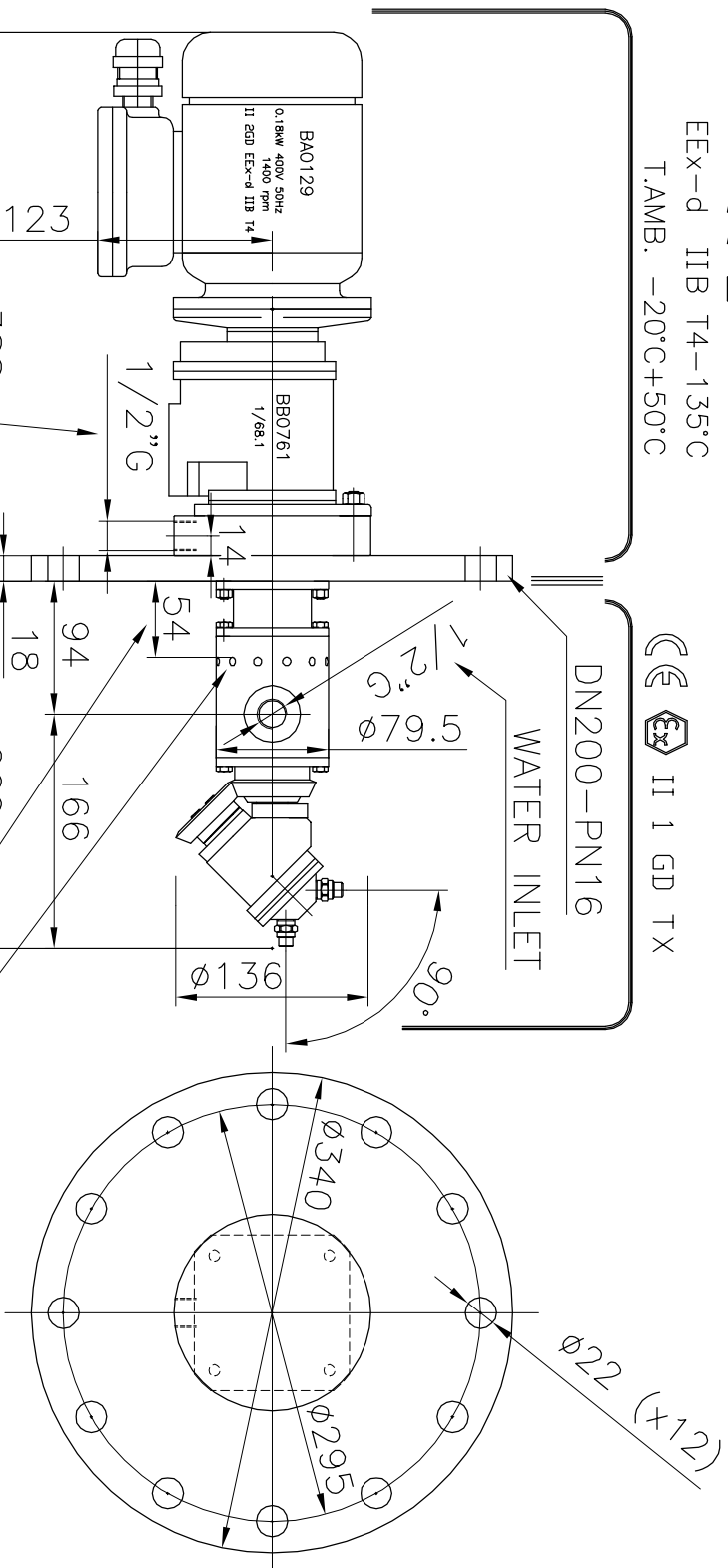
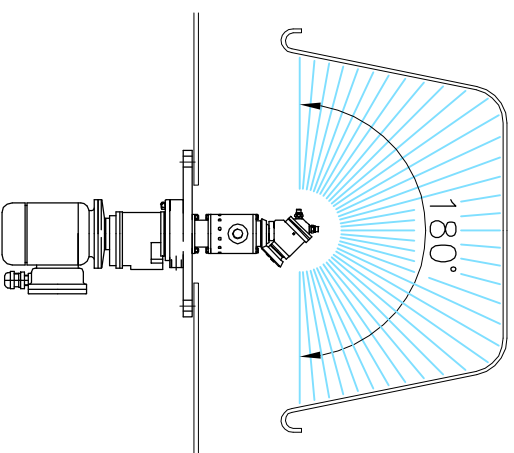
RUGOSITA' (UNI 4600)	MODIFICA	1	2	3	4	5
GREZZO	FOGLIO	xxxx				
TOLLERANZE GENERALI classe m UNI-EN 22768/1	DATA	xx.xx.xx				
SGROSS. ±0.1 ±0.2 ±0.3 ±0.5 ±0.8 ±1.2	0÷6 6÷30 30÷120120÷400400÷10001000÷2000					
FINITURA ±0.1 ±0.2 ±0.3 ±0.5 ±0.8 ±1.2	NOTE:					
MATERIALE:						
RETTIFICA ±0.1 ±0.2 ±0.3 ±0.5 ±0.8 ±1.2						
XC200P cm						



CE II 2 GD

EEx-d IIB T4-135°C
T.AMB. -20°C+50°C

CE II 1 GD TX



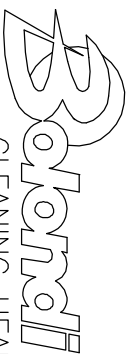
TECHNICAL DATA

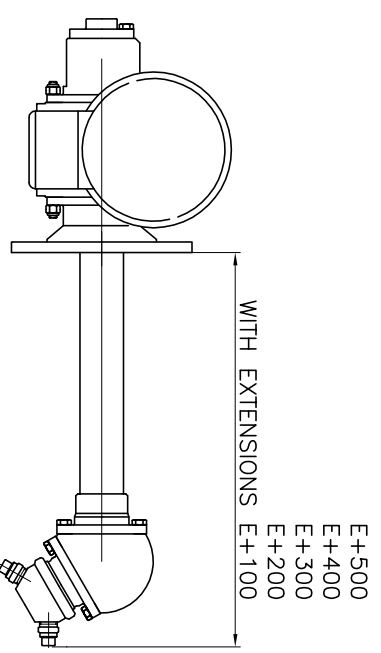
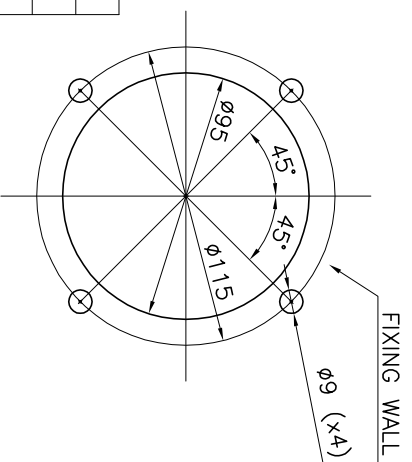
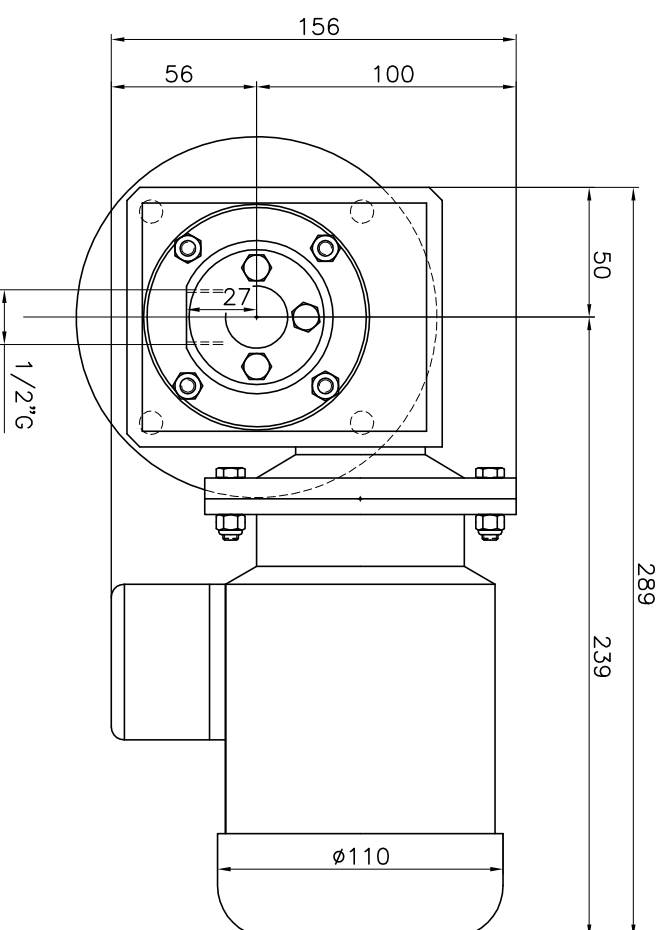
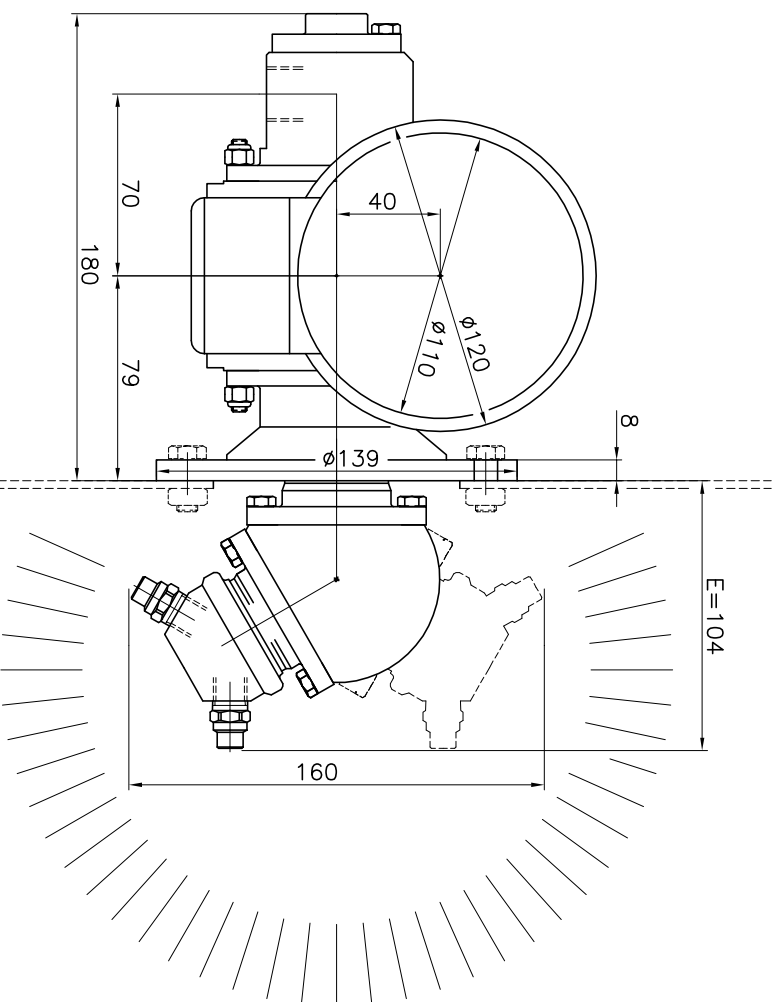
O.RING	EPDM
SLIPPER	PTFE+CARBON FIBER
BUSHING	NICKEL BRONZE 25%
NOZZLES POSITIONS	2 OR 4
NOZZLES SIZE	1/4"NPT
OPERATING FLOW	200 L/min
OPERATING PRESSURE	150 bar
MAX TEMPERATURE	90 °C
MATERIAL	INOX AISI 304
GEARS	FIXED Z=29 ROTATING Z=27
MODULE	2
FULL CYCLE	29 ROTATIONS
FULL CYCLE TIME	1.4 MIN.
ELECTRIC MOTOR EEX	400V 50HZ
ROTATION SPEED	21 RPM
WEIGHT	XX KG

SEALS SECONDARY DRAIN

SEALS MAIN DRAIN
MAX FLOODING LEVEL

file: XC 150_180°FR-EEN cm1

RUGOSITA' (UNI 4600)	MODIFICA	1	2	3	4	5	 CLEANING HEADS MONTECCHIO E. (RE) - ITALY
	FOGLIO						
	DATA						
	TOLLERANZE GENERALI classe m UNI-EN 22768/1						
GREZZO	0 ÷ 6	6 ÷ 30	30 ÷ 120	120 ÷ 400	400 ÷ 1000	1000 ÷ 2000	
~ = √	± 0.1	± 0.2	± 0.3	± 0.5	± 0.8	± 1.2	
SGROSS. 3.2/	NOTE:						
∇ = √							
FINITURA 1.6/	MATERIALE:						
∇∇ = √							
RETTIFICA 0.8/	DESCRIZIONE: APPLICATION DRAWING						
∇∇∇ = √	XC 150_180°FR-EER						
CODICE: XC 150_180°FR-EER							

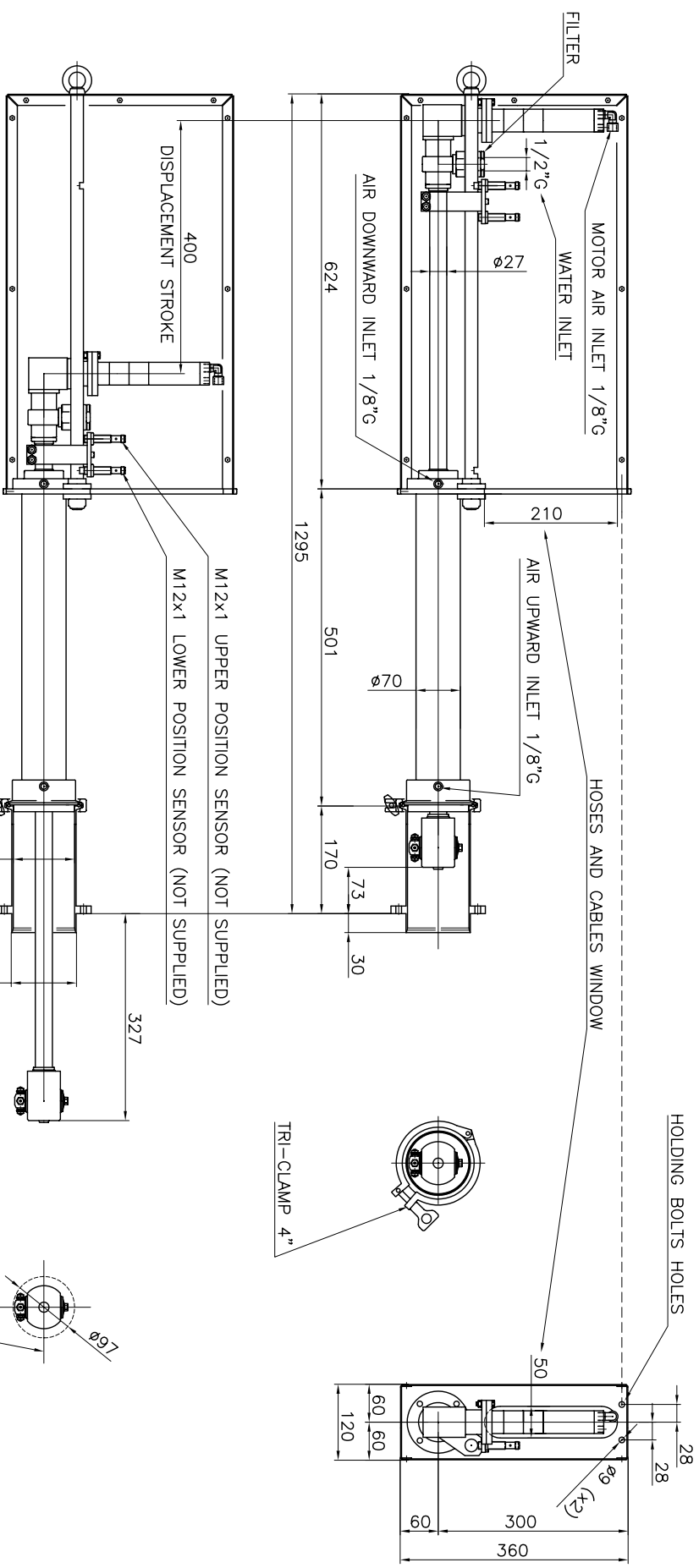


MAX FLOW	60 L/MIN.
MAX PRESSURE	200 BAR
NOZZLES POSITIONS	4
NOZZLE THREAD	1/4"G
ELECTRIC MOTOR	56B5-4P-1400RPM-0.09KW-400V-3PH
GEARBOX	CMO40U-1:80 RATIO
ROTATION SPEED	18 RPM
WASHING FULL CYCLE TIME	2 MIN.
HEAD MATERIAL	INOX+BRASS
WEIGHT	12.5 KG.

RUGOSITA' (UNI 4600)	MODIFICA	1	2	3	4	5
FOGLIO	XXXX					
DATA	XX.XX.XX					
GREZZO	TOLLERANZE GENERALI classe m UNI-EN 22768/1					
~ = ∅	0÷6	6÷30	30÷120	120÷400	400÷1000	1000÷2000
SGROSS. 3.2/	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2
∇ = 3.2/	NOTE:					
FINITURA 1.6/	MATERIALE:					
∇∇ = 1.6/						
RETIFICA 0.8/	DESCRIZIONE: CONCRETE MIXER WASHING HEAD					
∇∇∇ = 0.8/	STETTER VERSION					
	CODICE:	XC 070E cm3				
	SCALA	1:2	A3	O		
	DISIGN.: CR1 CONTR.: DM					
	DATA: 11.02.11					
	MOD.					
						
	CLEANING HEADS					
	MONTECCHIO E. (RE) - ITALY					



MONTECCHIO E. (RE) - ITALY



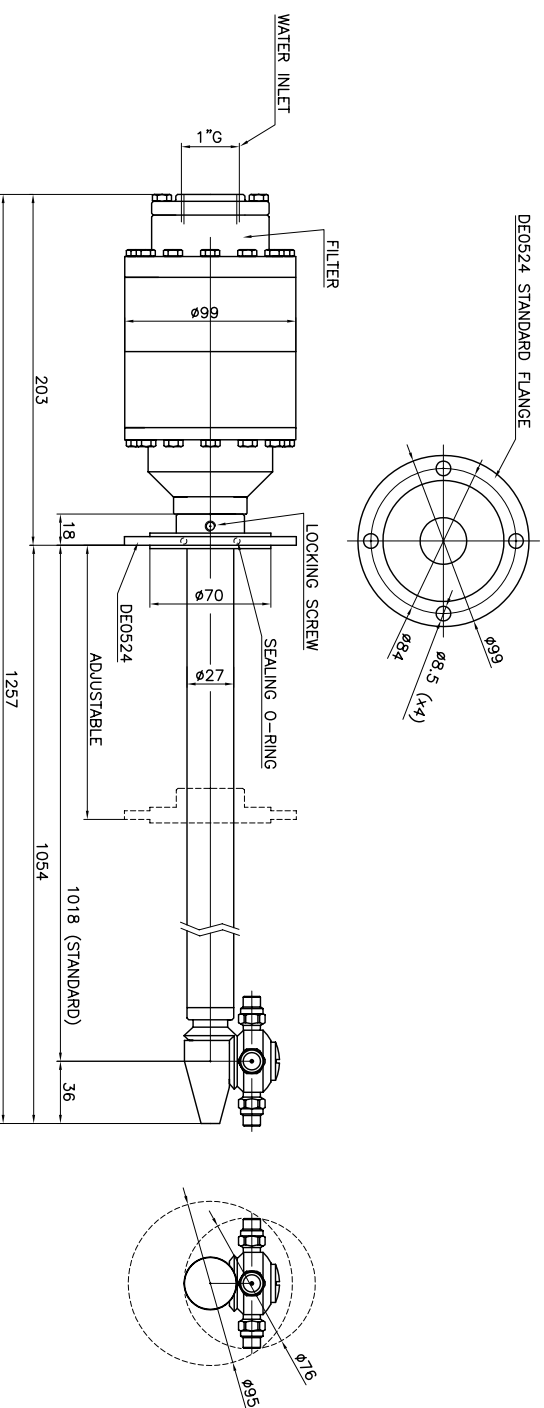
TECHNICAL DATA

O. RING	EPDM
SLIPPER	PTFE+CARBON FIBER
BUSHING	AINI 316
FILTER	700 MICRON
NOZZLES POSITIONS	4
NOZZLES SIZE	1/8"NPT
OPERATING FLOW	60 L/min
OPERATING PRESSURE	150 bar
MAX TEMPERATURE	90 °C
MATERIAL	INOX AISI 316 + BRASS + GALVANIZED STEEL
GEARS	FIXED Z=29 ROTATING Z=31
MODULE	1
FULL CYCLE	31 ROTATIONS
FULL CYCLE TIME	1.00 MIN. AT 3 BAR AIR PRESSURE
AIR MOTOR	ATLAS COPCO BA 720 INOX
WEIGHT	6.5 KG

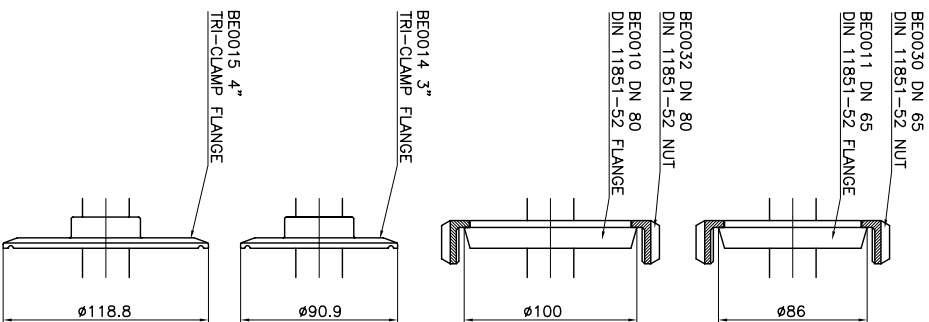
AIR PRESSURE AND CONSUMPTION

ROTATION SPEED	29 RPM	1 bar	26.4 L/min. AIR
ROTATION SPEED	42 RPM	2 bar	28.8 L/min. AIR
ROTATION SPEED	51 RPM	3 bar	300 L/min. AIR
ROTATION SPEED	58 RPM	4 bar	306 L/min. AIR
ROTATION SPEED	62 RPM	5 bar	312 L/min. AIR
ROTATION SPEED	66 RPM	6 bar	32.4 L/min. AIR

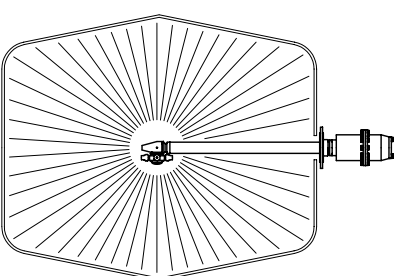
RUGOSITA' (UNI 4600)	MODIFICA	1	2	3	4	5
	FOGLIO	XXXX				
GREZZO	DATA	XX.XX.XX				
TOLLERANZE GENERALI close m. UNI-EN 22768/1						
±0.6	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2
NOTE:						
DESCRIZIONE: APPLICATION DRAWING						
XC 065 PPD-90°BA cm						
400 mm STROKE						
CODICE: XC 065 PPD-90°BA						



TECHNICAL DATA	
O-RING	NBR – EPDM – VITON
SLIPPER	PTFE+CARBON FIBRE
BUSHING	AIISI 316
FILTER	700 MICRON
NOZZLES POSITIONS	2 – 4
NOZZLES THREAD	1/8" NPT
TESTING NOZZLES	0 x 0000
OPERATING FLOW RANGE	10 – 60 L/min
TESTING FLOW	00 L/min
OPERATING PRESSURE RANGE	0 – 200 bar
TESTING PRESSURE	000 bar
CENTER LINE MIN PASS THROUGH HOLE	95 mm
MANUAL MIN PASS THROUGH HOLE	76 mm
PIPE LENGHT	1018 mm (STANDARD)
MAX OPERATING TEMPERATURE	90 °C
MATERIAL	INOX AISI 316
CONICAL GEARS	FIXED Z=29 ROTATING Z=31
MODULE	1
ROTATION SPEED RANGE	15 TO 25 RPM
FULL CYCLE	31 ROTATIONS
FULL CYCLE TIME	1,5 min AT 20 RPM



RUGOSITA' (UNI 4600)	MODIFICA	1	2	3	4	5
GREZZO	FOGLIO	XXXX				
DATA	DATA	XX.XX.XX				
TOLLERANZE GENERALI classe m UNI-EN 22768/1						
0÷6	6÷30	30÷120	120÷400	400÷1000	1000÷2000	
±0.1	±0.2	±0.3	±0.5	±0.8	±1.2	
SGROSS. 3/2	NOTE:					
FINITURA 1/6	DESCRIZIONE:	XC 061 AAH APPLICATION DRAWING				
RETIFICA 0,8						
VVV = 0,8						



CLEANING HEADS

MONTECOLO E. (RE) - ITALY

DISIGN.: CR ICONTR.: DM

DATA: 02.10.08 MOD.

SCALA

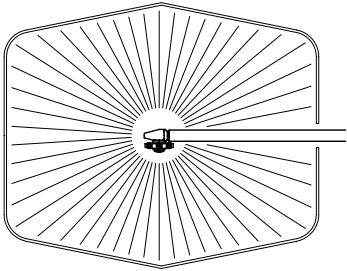
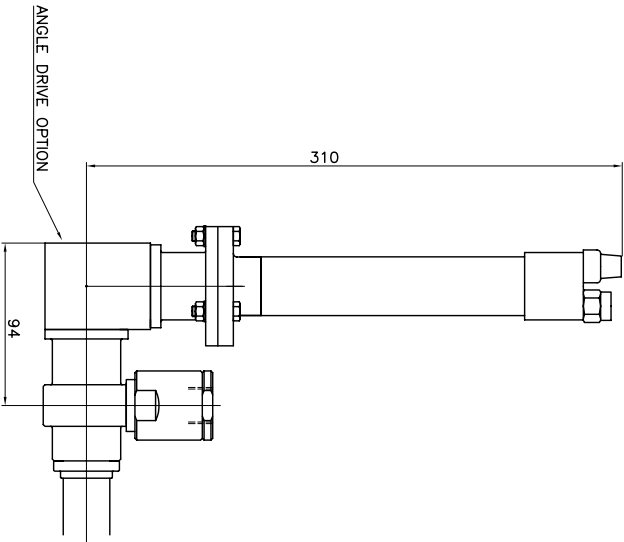
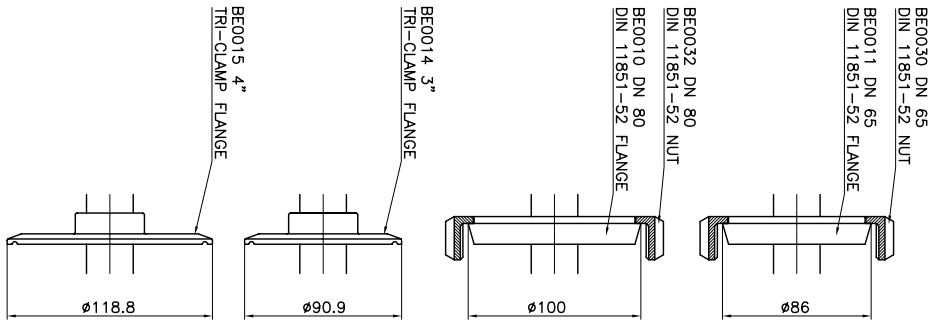
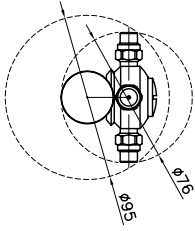
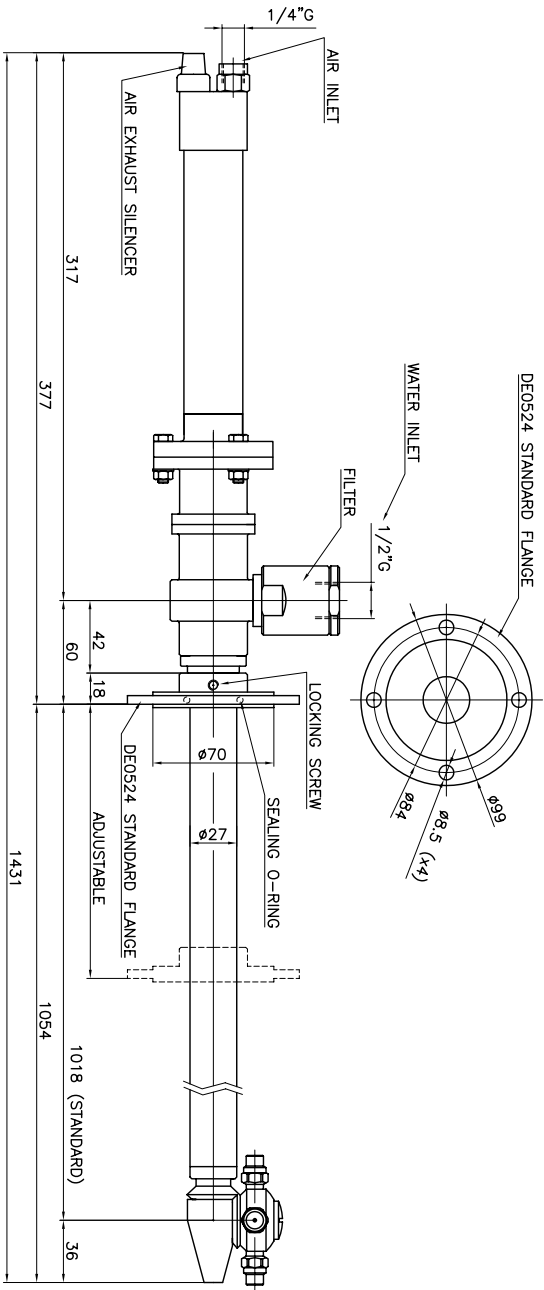
1:3 A3 0

CODICE:

XC 061 AAH

ROTATION SPEED AIR PRESSURE AND CONSUMPTION					
19 RPM	1 bar	155 L/min			
28 RPM	2 bar	230 L/min			
33 RPM	3 bar	275 L/min			
37 RPM	4 bar	320 L/min			
40 RPM	5 bar	360 L/min			
51 RPM	6 bar	395 L/min			

TECHNICAL DATA	
O-RING	NBR – EPDM – VITON
SUPPER	PTFE+CARBON FIBRE
BUSHING	ALSI 316
FILTER	700 MICRON
NOZZLES POSITIONS	2 – 4
NOZZLES THREAD	1/8"NPT
TESTING NOZZLES	0 x 0000
OPERATING FLOW RANGE	0 – 60 L/min
TESTING FLOW	00 L/min
OPERATING PRESSURE RANGE	0 – 200 bar
TESTING PRESSURE	000 bar
CENTER LINE MIN PASS THROUGH HOLE	95 mm
MANUAL MIN PASS THROUGH HOLE	76 mm
PIPE LENGHT	1018 mm (STANDARD)
MAX OPERATING TEMPERATURE	90 °C
MATERIAL	INOX ALSI 316
CONICAL GEARS	FIXED Z=29 ROTATING Z=31
MODULE	1
FULL CYCLE	31 ROTATIONS
FULL CYCLE TIME	1 min AT 3 BAR AIR PRESSURE
AIR MOTOR	BA0705 FIAM M15Z
AIR EXHAUST	WITH SILENCER
ROTATION SPEED	SEE CHART
WEIGHT	7.5 KG

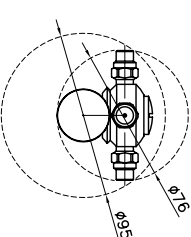
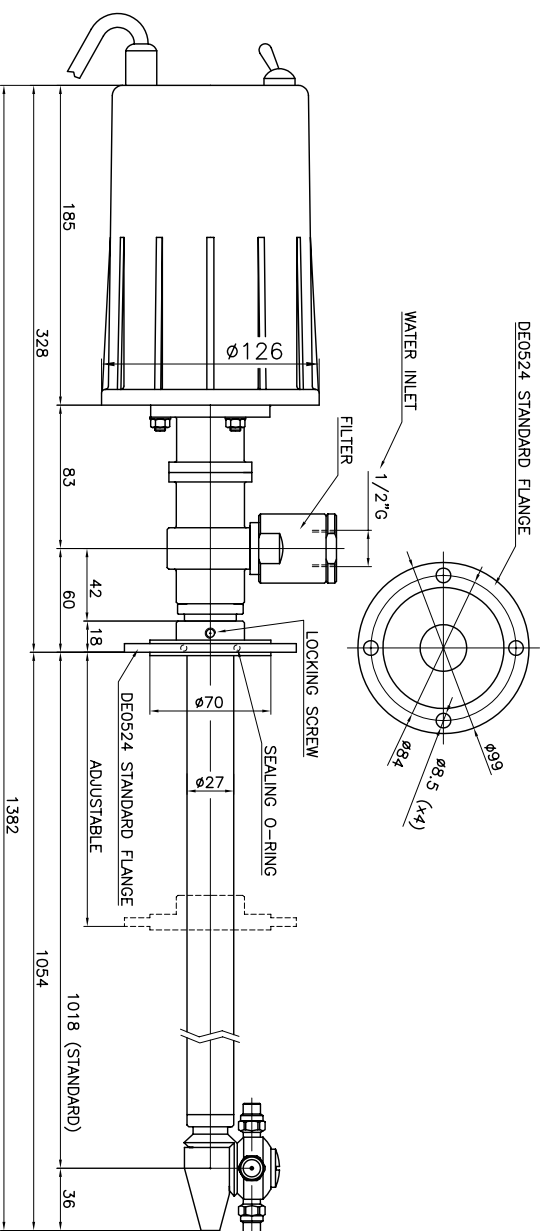


RUGOSITA' (UNI 4600)	MODIFICA	1	2	3	4	5
FOGLIO	XXXX					
DATA	XX.XX.XX					
GREZZO						
$\sim = \varnothing$	TOLLERANZE GENERALI classe m UNI-EN 22768/1					
SGROSS. $3.2/\sqrt{\quad}$	0÷6 ±0.1 ±0.2 ±0.3 ±0.5 ±0.8 ±1.2					
NOTE:						
FINITURA $1.6/\sqrt{\quad}$	DESCRIZIONE: XC 061 P					
RETIFICA $0.8/\sqrt{\quad}$	APPLICATION DRAWING					
$\sqrt{\quad} = \sqrt{\quad}$						



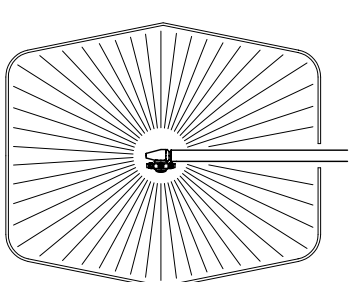
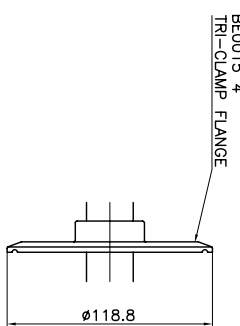
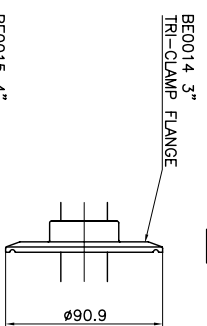
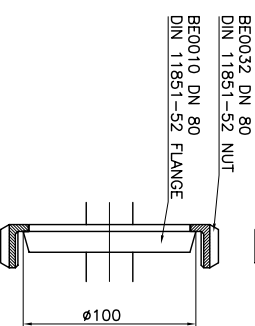
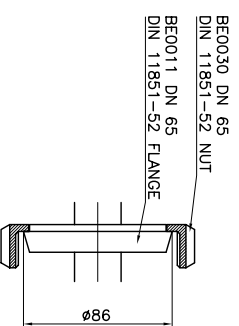
MONTECCHIO E. (RE) - ITALY
DISIGN.: CR ICONTR.: DM
DATA: 06.10.08 MOD.

SCALA 1:3 A3 0
CODICE: XC 061 P



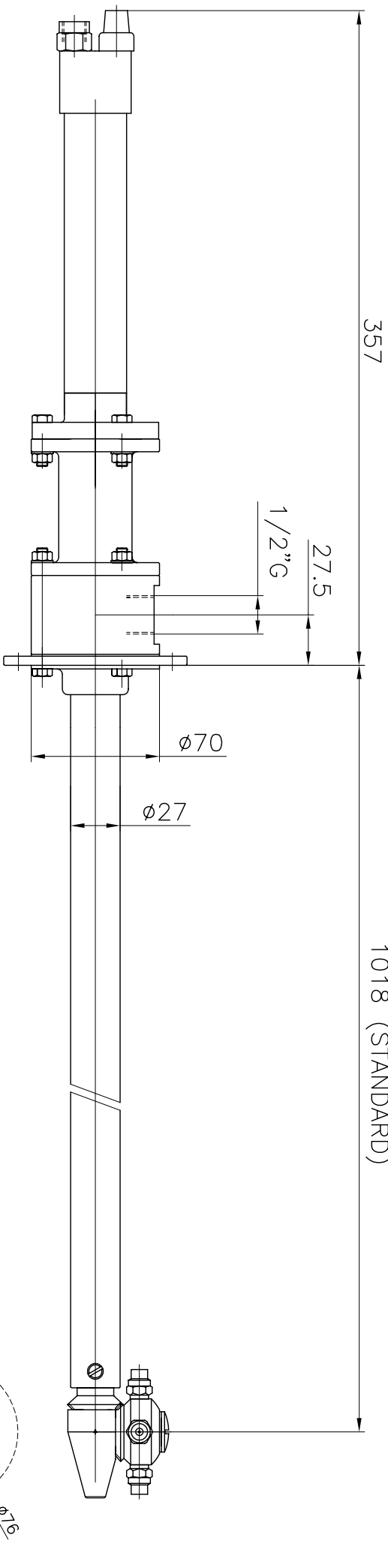
TECHNICAL DATA

O-RING	NBR – EPDM – VITON	
SLIPPER	PTFE+CARBON FIBRE	
BUSHING	AISI 316	
FILTER	700 MICRON	
NOZZLES POSITIONS	2 – 4	
NOZZLES THREAD	1/8"NPT	
TESTING NOZZLES	0 x 0000	
OPERATING FLOW RANGE	0 – 60 L/min	
TESTING FLOW	00 L/min	
OPERATING PRESSURE RANGE	0 – 200 bar	
TESTING PRESSURE	000 bar	
CENTER LINE MIN PASS THROUGH HOLE	95 mm	
MANUAL MIN PASS THROUGH HOLE	76 mm	
PIPE LENGTH	1018 mm (STANDARD)	
MAX OPERATING TEMPERATURE	90 °C	
MATERIAL	INOX AISI 316	
CONICAL GEARS	FIXED Z=29 ROTATING Z=31	
MODULE	1	
FULL CYCLE	31 ROTATIONS	
GEARBOX	W/MOTOR	BB0743 BB0743 BB0743
ELECTRIC MOTOR	BB0015	BA0105 BA0102 BA0108
ELECTRIC MOTOR VOLTS	24V AC/DC	48V 50Hz 1ph 230V 50Hz 1ph 400V 50Hz 3ph
ELECTRIC MOTOR AMPS	0.30 A	1.15 A 0.23 A 0.10 A
ROTATION SPEED	17 RPM	14 RPM 14 RPM
FULL CYCLE TIME	1.8 min	2.2 min 2.2 min
WEIGHT	7.5 KG	



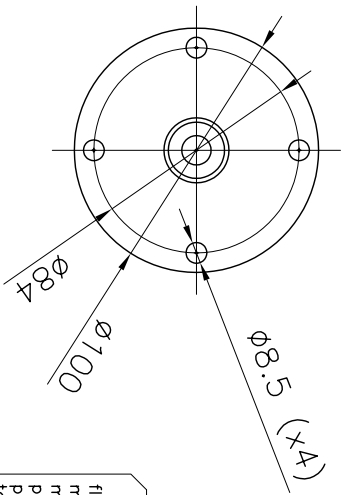
RUGOSITA' (UNI 4600)	MODIFICA	1	2	3	4	5
GREZZO	FOGLIO	XXXX				
~ = Ø	DATA	XX.XX.XX				
SGROSS. 3.2/	TOLLERANZE GENERALI classe m	UNI-EN 22768/1				
∇ = ∇	0÷6	6÷30	30÷120	120÷400	400÷1000	1000÷2000
FINITURA 1.6/	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2
RETTIFICA 0.8/	NOTE:					
∇∇ = ∇	DESCRIZIONE:	XC 061 E APPLICATION DRAWING				
∇∇∇ = ∇	SCALA	1:3 A3 0				
	CODICE:	XC 061 E				



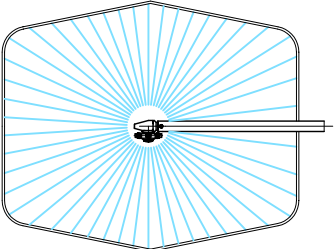
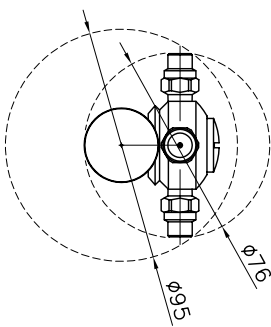


ROTATION SPEED
AIR PRESSURE AND CONSUMPTION

19 RPM	1 bar	155 L/min
28 RPM	2 bar	230 L/min
33 RPM	3 bar	275 L/min
37 RPM	4 bar	320 L/min
40 RPM	5 bar	360 L/min
51 RPM	6 bar	395 L/min



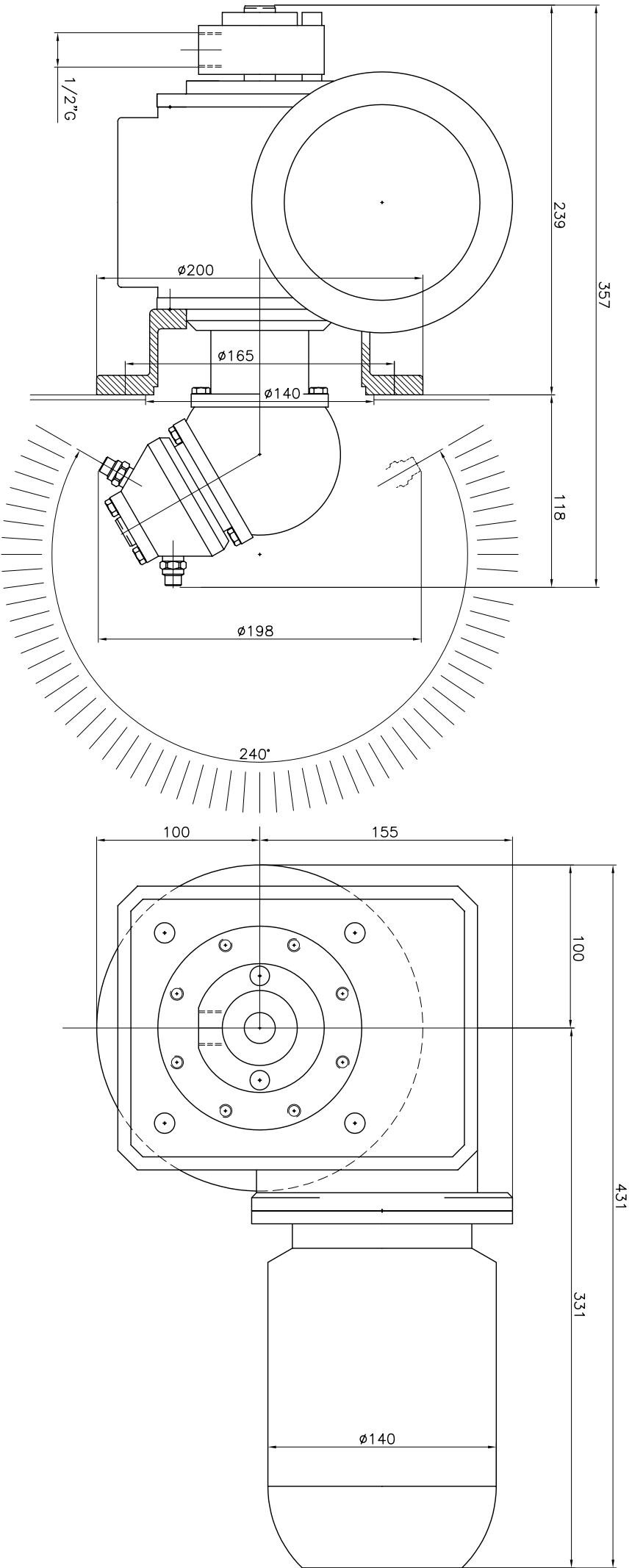
flangitura: coaxiale materiale: inox 316 motore: pneumatico portata max: 60 l/min pressione max: 400 bar temperatura max: 100°C tenute: nbr, epdm, viton ugelli: 1/8" G portaugelli: 2-4 vie	flanging: coaxial material: stainless steel 316 motor: pneumatic flow max: 60 l/min pressure max: 400 bar temperature max: 100°C seals: nbr, epdm, viton nozzles: 1/8" G nozzle holder: 2-4 holes
--	---



RUGOSITA' (UNI 4600)	MODIFICA	1	2	3	4	5
	FOGLIO	XXXX				
	DATA	XX.XX.XX				
GREZZO	TOLLERANZE GENERALI classe m UNI-EN 22768/1					
~ = ∅	0 ÷ 6	6 ÷ 30	30 ÷ 120	120 ÷ 400	400 ÷ 1000	1000 ÷ 2000
SGROSS.	± 0.1	± 0.2	± 0.3	± 0.5	± 0.8	± 1.2
▽ = ∇	NOTE: VERSION 400 BAR					
FINITURA	DESCRIZIONE: DISEGNO DI APPLICAZIONE					
∇∇ = ∇	XC 060 P INSTALLATION DRAWING					
RETTIFICA						
∇∇∇ = ∇	CODICE: XC 060 P					

		
CLEANING HEADS		
MONTECCHIO E. (RE) - ITALY		

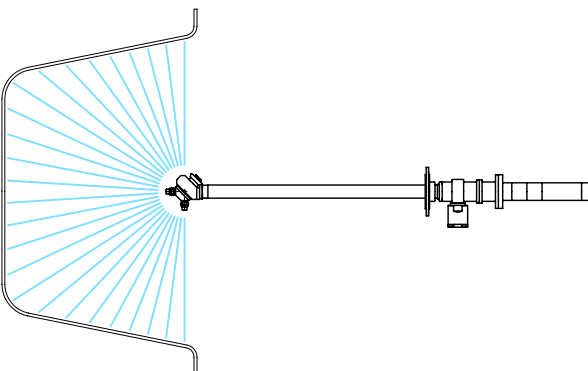
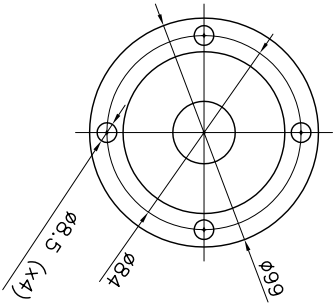
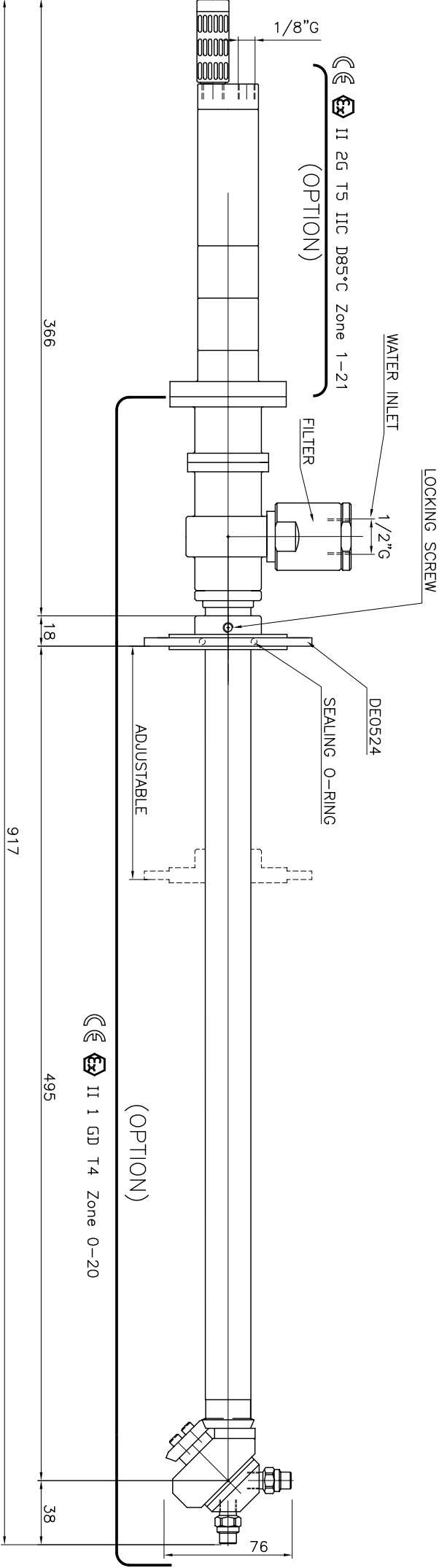
DISIGN.: CR	CONTR.: DM
DATA: 01.01.05	MOD.
SCALE	
1:3	A4
	O



PORTATA MAX	MAX FLOW	100 litri/min.
PRESSIONE MAX	MAX PRESSURE	150 bar
N° UGELLI	NOZZLES POSITIONS	4
FILETTATURA UGELLI	NOZZLE THREAD	1/4"NPT
MOTORE ELETTRICO	ELECTRIC MOTOR	71B5-4POLI-1400RPM-0.37KW-3PH-400V-50HZ
RIDUTTORE	GEARBOX	W75 - RAPPORTO 1:80 RATIO
VELOCITA' ROTAZIONE	ROTATION SPEED RPM	18
MATERIALE TESTA	HEAD MATERIAL	INOX
PESO	WEIGHT	19.5 Kg.

RUGOSITA' (UNI 4600)	MODIFICA	1	2	3	4	5
FOGLIO	xxxx					
DATA	xx.xx.xx					
GREZZO	TOLLERANZE GENERALI classe m UNI-EN 22768/1					
~ = ∅	0÷6	6÷30	30÷120	120÷400	400÷1000	1000÷2000
SGROSS. 3/2	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2
V = 3/2	NOTE:					
FINITURA 1/2	MATERIALE:					
VV = 1/2						
RETTIFICA 0.8	DESCRIZIONE: CONCRETE MIXER WASHING HEAD					
VVV = 0.8	TESTA LAVAGGIO SISTEMI BETONAGGIO					
	CODICE: XC059E					





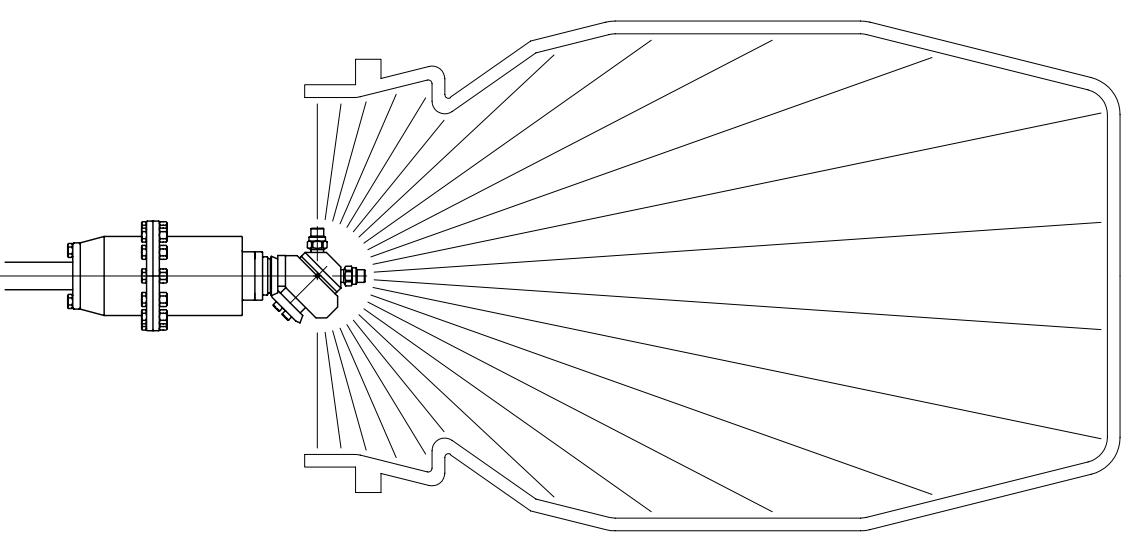
TECHNICAL DATA	
O.RING	NBR-EPDM-VITON
SLIPPER	PTFE+CARBON FIBER
FILTER	700 MICRON
NOZZLES POSITIONS	2 - 4
NOZZLES SIZE	1/8"NPT
OPERATING FLOW	MAX 60 L/min
OPERATING PRESSURE	MAX 200 bar
MAX TEMPERATURE	90 °C
MATERIAL	INOX AISI 316
FULL CYCLE	31 ROTATIONS
FULL CYCLE TIME	1.00 MIN. AT 3 BAR AIR PRESSURE
WEIGHT	4.9 KG

AIR PRESSURE AND CONSUMPTION	
ROTATION SPEED	29 RPM 1 bar 264 L/min. AIR
ROTATION SPEED	42 RPM 2 bar 288 L/min. AIR
ROTATION SPEED	51 RPM 3 bar 300 L/min. AIR
ROTATION SPEED	58 RPM 4 bar 306 L/min. AIR
ROTATION SPEED	62 RPM 5 bar 312 L/min. AIR
ROTATION SPEED	66 RPM 6 bar 324 L/min. AIR

RUGOSTITA' (UNI 4600)		MODIFICA	1	2	3	4	5
GREZZO		FOGLIO	XXX				
~ = Ø		DATA	XX.XX.XX				
SGROSS		TOLLERANZE GENERALI classe m UNI-EN 22768/1					
V = 3/2		O+6 1 6+30 30+120 120+400 400+1000 1000+2000					
VV = 1/8		±0.1 ±0.2 ±0.3 ±0.5 ±0.8 ±1.2					
FINITURA		NOTE:					
RETTIFICA		MATERIALE: INOX					
VVV = 9/		DESCRIZIONE: APPLICATION DRAWING					
		XC 031_180FR-PPD.01					
		CODICE: XC 031_180FR-PPD.01					



CLEANING HEADS
MONTECCHIO E. (RE) - ITALY
DISEGN.: CR ICONTR.: DM
DATA: 27.10.09
MOD.
SCALA 1:2 A3 0

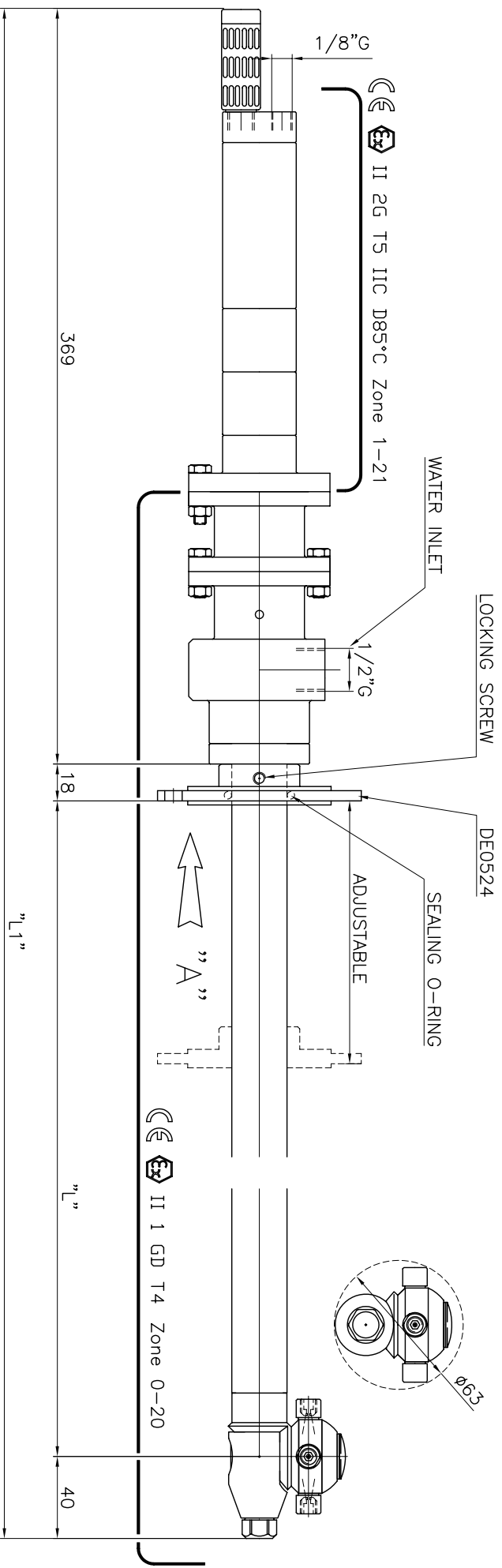


O.RING	EPDM
--------	------

SLIPPER	PTFE+CARBON FIBRE
FILTER	700 MICRON
NOZZLES POSITIONS	2-4
NOZZLES TYPE	1/8"NPT
MAX OPERATING FLOW	60 L/min
MAX OPERATING PRESSURE	150 bar
MAX OPERATING TEMPERATURE	90 °C
MATERIAL	INOX AISI 316
CONICAL GEARS	FIXED Z=29 ROTATING Z=31
MODULE	1
COMPLETE CYCLE	31 ROTATIONS
COMPLETE CYCLE TIME	30 SEC
ROTATION SPEED	60 RPM
WEIGHT	7.5 KG

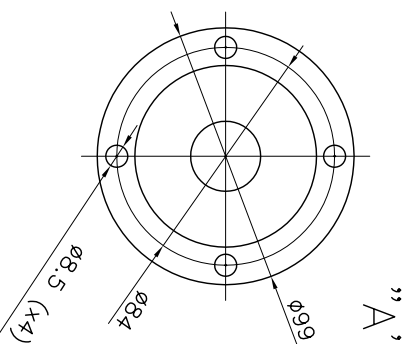
RUGOSITA' (UNI 4600)	MODIFICA	1	2	3	4	5		
	FOGLIO	XXXX						
	DATA	XX.XX.XX						
	TOLLERANZE GENERALI classe m UNI-EN 22768/1							
GREZZO	∕	0÷6	6÷30	30÷120	120÷400	400÷1000	1000÷2000	
		±0.1	±0.2	±0.3	±0.5	±0.8	±1.2	
SGROSS.	3.2/	NOTE: file: XC 061 AAH cm						
∇ = ∇/	DESCRIZIONE: APPLICATION DRAWING							
FINITURA	1.6/	XC031_180°FR-AA.M.01						
∇∇ = ∇/								
RETTIFICA								
∇∇∇ 0.8/	∇/							

			
CLEANING HEADS			
MONTECCHIO E. (RE) - ITALY			
DISGN.: CR	CONTR.: DM		
DATA: 07.05.08	MOD.		
SCALE	1:2	A4	O
CODICE:			
XC031_180°FR-AA.M.01			



TECHNICAL DATA

O. RING	NBR-EPDM-VITON
SLIPPER	PTFE+CARBON FIBER
BUSHING	ASI 316
NOZZLES POSITIONS	2 - 4
NOZZLES SIZE	SPECIAL 1/8"G
OPERATING FLOW	MAX 60 L/min
OPERATING PRESSURE	MAX 500 bar
MAX TEMPERATURE	90 °C
MATERIAL	INOX ASI 316
GEARS	FIXED Z=29 ROTATING Z=31
MODULE	1
FULL CYCLE	31 ROTATIONS
FULL CYCLE TIME	1.00 MIN. AT 3 BAR AIR PRESSURE
AIR MOTOR	ATLAS COPCO ATEX BA 725 INOX
AIR EXHAUST	FESTO SILENCER BP 415 ON MOTOR
WEIGHT	4.9 KG



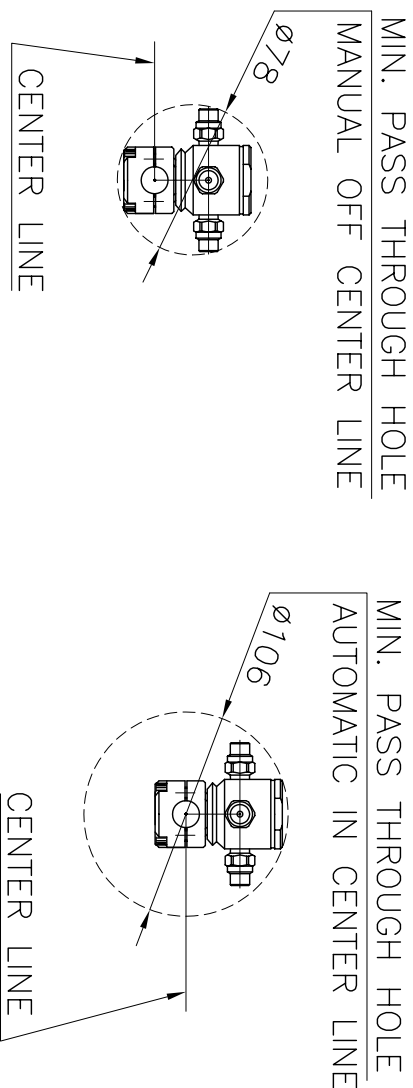
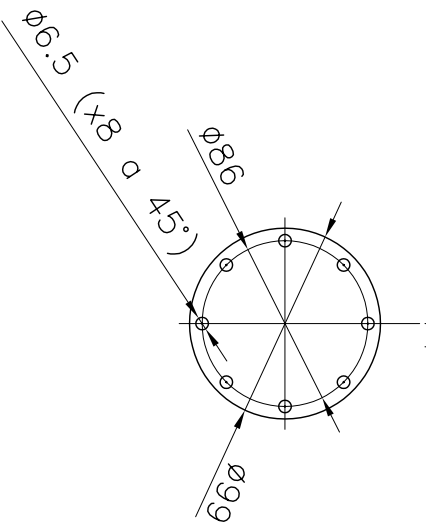
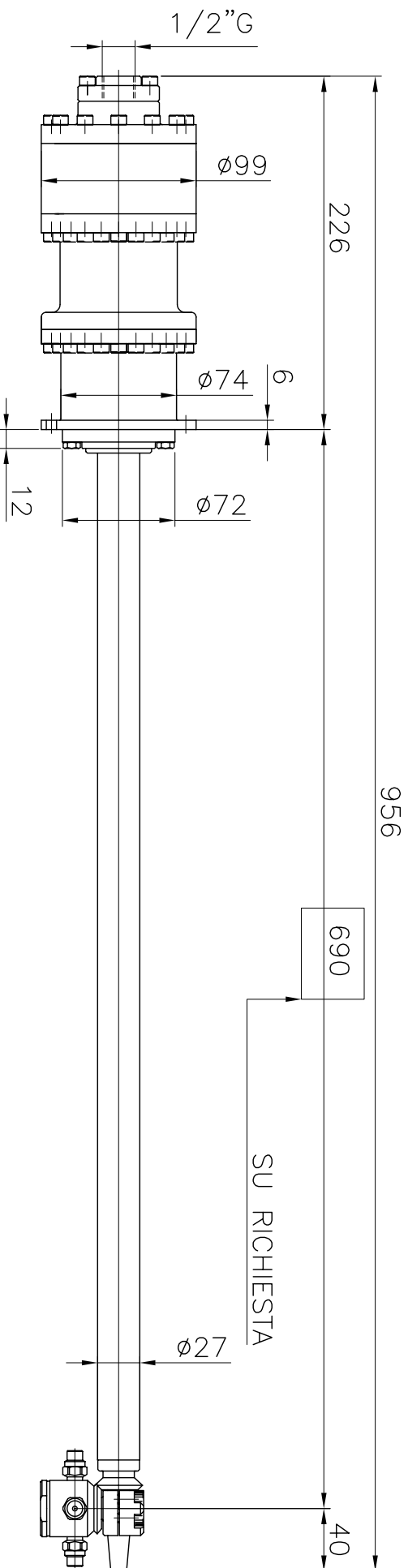
"A" VIEW

DIMENSION "L"	DIMENSION "L1"
526	953
1026	1453
1526	1953
2026	2453
2526	2953
3026	3453
3526	3953
4026	4453

AIR PRESSURE AND CONSUMPTION

ROTATION SPEED	29 RPM	1 bor	264 L/min.	AIR
ROTATION SPEED	42 RPM	2 bor	288 L/min.	AIR
ROTATION SPEED	51 RPM	3 bor	300 L/min.	AIR
ROTATION SPEED	58 RPM	4 bor	306 L/min.	AIR
ROTATION SPEED	62 RPM	5 bor	312 L/min.	AIR
ROTATION SPEED	66 RPM	6 bor	324 L/min.	AIR

RUGOSTA' (UNI 4600)	MODIFICA	1	2	3	4	5	 CLEANING HEADS MONTECCHIO E. (RE) - ITALY
GREZZO	Foglio	xxxx					
$\sim = \varnothing$	DATA	xx.xx.xx					
SGROSS. $\nabla = 3/2$	TOLLERANZE GENERALI	close m UNI--EN 22768/1 0 $\pm$ 6 6 $\pm$ 30 30 $\pm$ 400 400 $\pm$ 1000 1000 $\pm$ 2000 0 $\pm$ 0.1 0 $\pm$ 0.2 0 $\pm$ 0.3 0 $\pm$ 0.5 0 $\pm$ 0.8 0 $\pm$ 1.2					
FINITURA $\nabla = 1/6$	MATERIALE:						DESIGN.: CR CONTR.: DM DATA: 21.01.10 MOD.
RETIFICA $\nabla = 0/8$	DESCRIZIONE:	APPLICATION DRAWING					SCALE: 1:2 A3 0
$\nabla \nabla \nabla = 0/8$		XC 561 P cm					
		XC 561 P cm					



TECHNICAL DATA	
temperature max	90°C
pressure max	500 bar
flow	15-60 l/min
spinning speed	16 rpm
washing cycle time	2 min
water inlet	1/2" G
inlet filter	700 micron
material	INOX
seals	NBR
nozzle size	1/8" NPT
nozzles positions	2 - 4
weight	9.5 Kg

RUGOSITA' (UNI 4600)	MODIFICA	1	2	3	4	5
	FOGLIO	XXXX				
GREZZO	DATA	XX.XX.XX				
	TOLLERANZE GENERALI classe m UNI-EN 22768/1					
~ = ∅	0÷6	6÷30	30÷120	120÷400	400÷1000	1000÷2000
SGROSS. 3.2/	± 0.1	± 0.2	± 0.3	± 0.5	± 0.8	± 1.2
▽ = ∇	NOTE: 21.07.08					
FINITURA 1.6/						
▽▽ = ∇	MATERIALE:					
RETTIFICA 0.8/	DESCRIZIONE: XC 563AAO					
▽▽▽ = ∇	INSTALLATION DRAWING					
CODICE:		XC 563AAO				
SCALE		1:1		A4		O
DISIGN.: CR		CONTR.: DM				
DATA: 19.11.07		MOD.				
MONTECCHIO E. (RE) - ITALY						
CLEANING HEADS						
BOMI						

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