



Bolondi
Cleaning Heads

CATALOGO 2016
CATALOGUE 2016

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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)



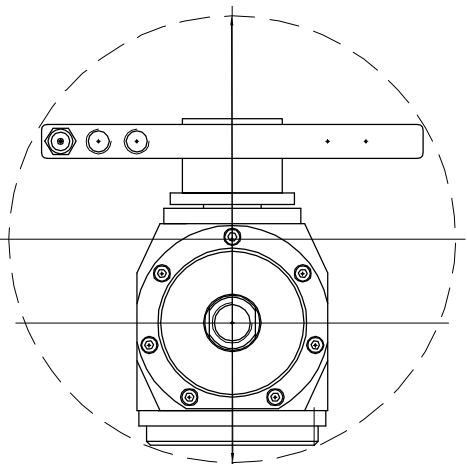
AQUAMOTOR

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.

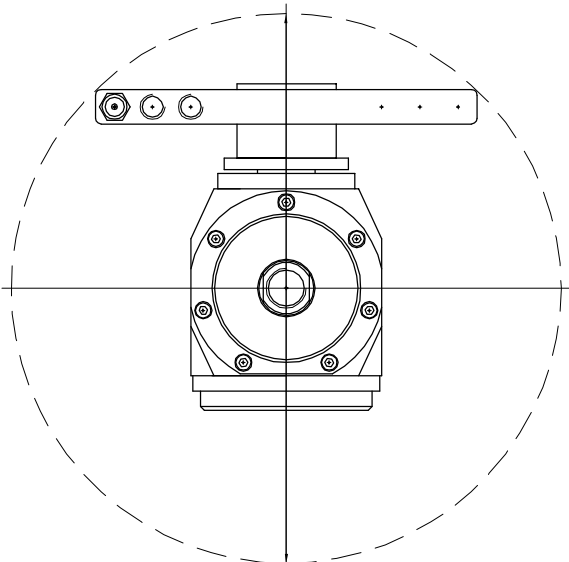
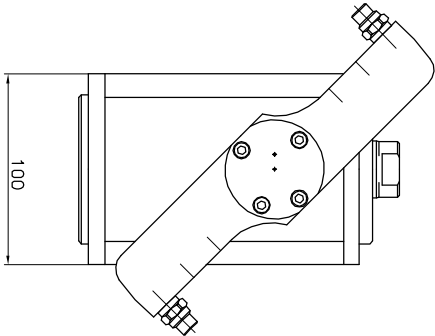
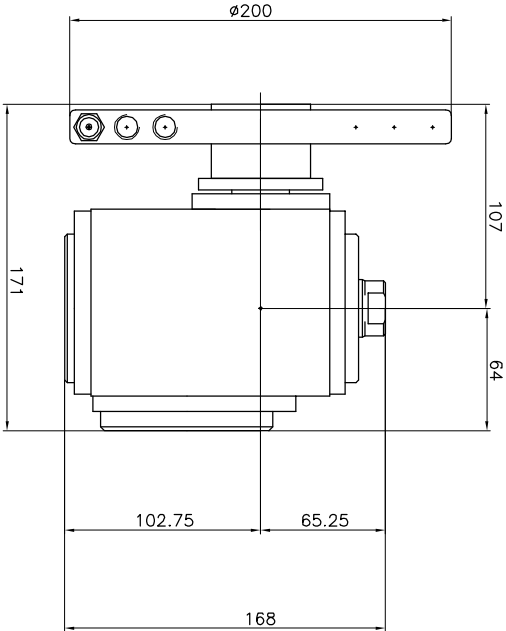
It's a selfspinning device for cleaning heads with spinning speed depending on: water flow, nozzle position, oil viscosity.



rOtojet



FORO DI PASSAGGIO MINIMO MANUALE Ø234
MIN. MANUAL THROUGH HOLE Ø234

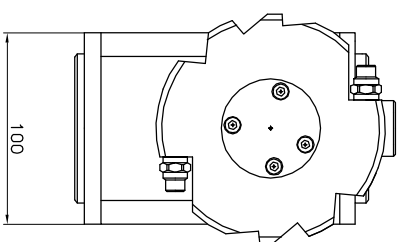
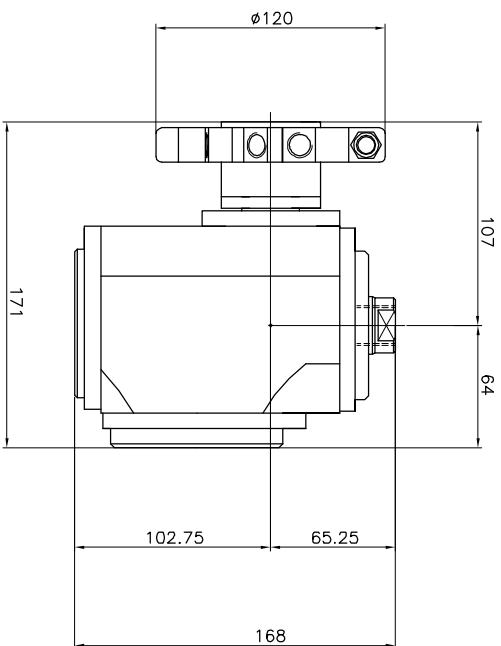


FORO DI PASSAGGIO MINIMO IN ASSE Ø288
MIN. CENTER LINE THROUGH HOLE Ø288

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 20–100–360–5000
INOX AISI 316	WEIGHT 10.5KG
ALUMINIUM	WEIGHT 5.5KG

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 20–100–360–5000
INOX AISI 316	WEIGHT 10.5KG
ALUMINIUM	WEIGHT 5.5KG

RUGOSITA' (UNI 4600)	MODIFICA	1	2	3	4	5
	FOGLIO	XXXX				
	DATA	XX.XX.XX				
	GREZZO	TOLLERANZE GENERALI classe m UNI-EN 22768/1				
RETIFICA 0.8/	0÷6	6÷30	30÷120	120÷400	400÷1000	1000÷2000
	SGROSS.	±0.1	±0.2	±0.3	±0.5	±1.2
	NOTE:	VERSIONE 09				
	FINITURA	MATERIALE:				
DESCRIZIONE: FV020 DISEGNO DI APPLICAZIONE		CODICE:				
FV020 APPLICATION DRAWING		FV020				

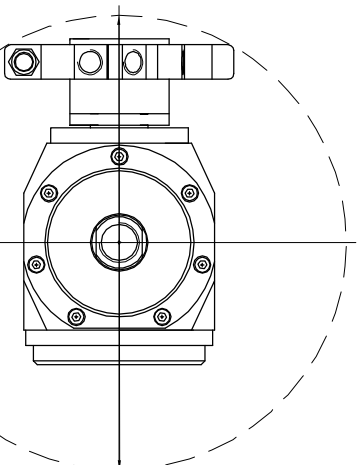


TECHNICAL DATA – 200 BAR VERSION

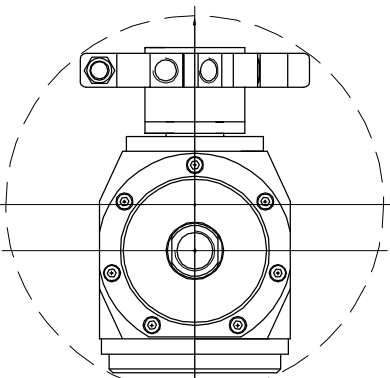
OPERATING FLOW RANGE	8 – 200 L/min
OPERATING PRESSURE RANGE	8 – 200 bar
MAX OPERATING TEMPERATURE	90 °C
WASHING CYCLE TIME	2'-12'
WATER INLET	1/2" G
NOZZLES POSITIONS	2 – 4
NOZZLES THREAD	1/4"NPT
O-RING	NBR – EPDM
LUBRICANT	SILICON OIL VISCOSITY 20–100–350–5000
MATERIAL	
INOX AISI 316	WEIGHT 10.5KG
ALUMINIUM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



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



FORO DI PASSAGGIO MINIMO MANUALEØ198
MIN.MANUAL THROUGH HOLE Ø198

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					



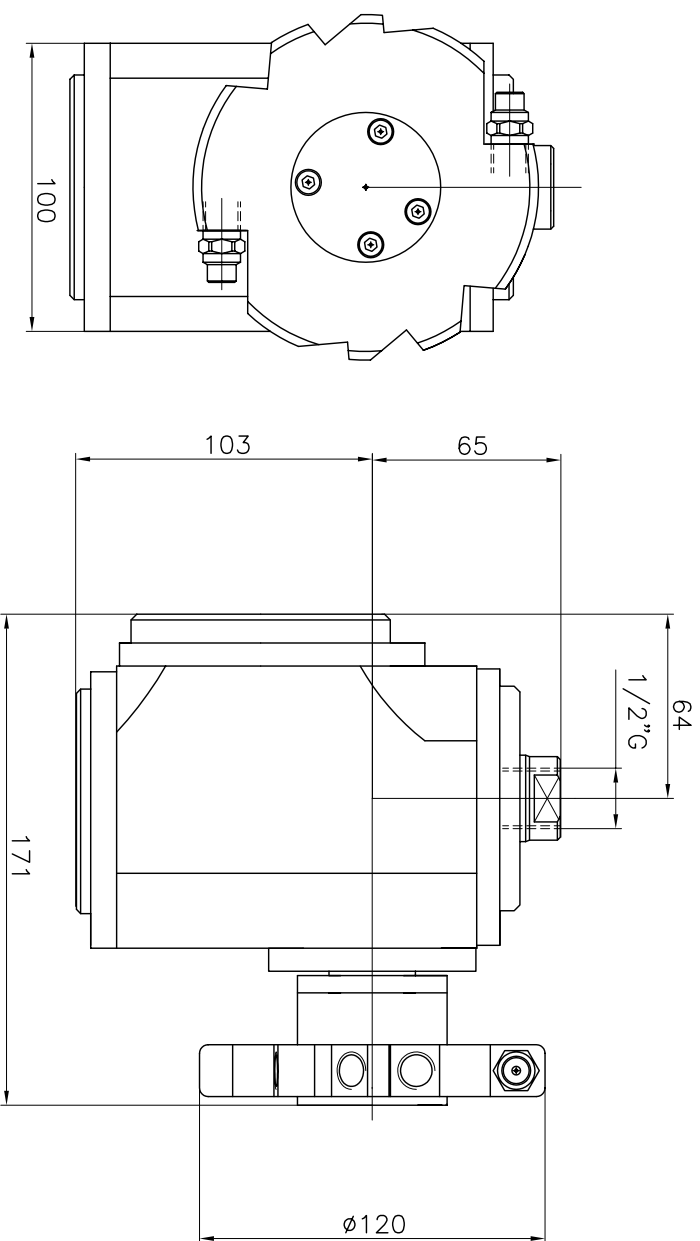
MONTECHIO E. (RE) – ITALY

DISIGN.: CR | CONTR.: DM

DATA: 08.09.09

MOD.

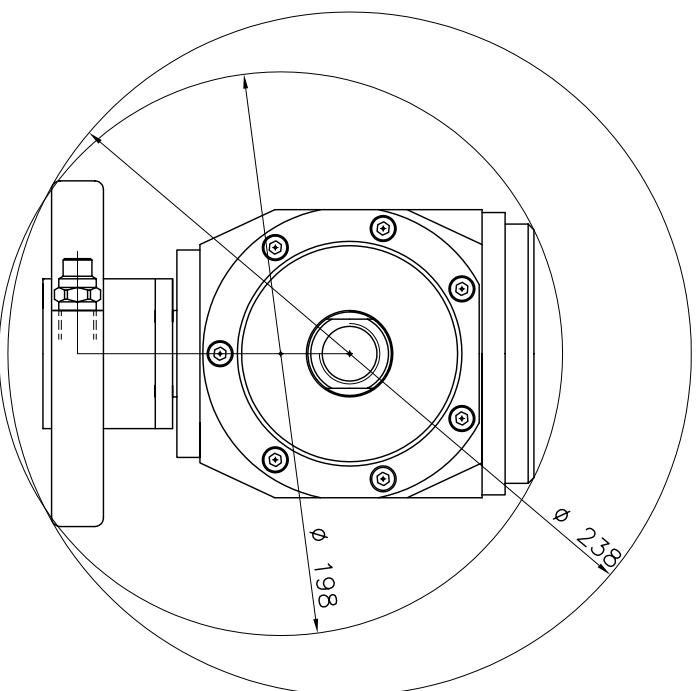
SCALE 1:2 A3 O



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

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



RUGOSITA' (UNI 4600)	MODIFICA	1	2	3	4	5
	FOGLIO	XXXX				
GREZZO	DATA	XX.XX.XX				
	TOLLERANZE GENERALI ciosse 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
▽ = ▽	NOTE: VERSIONE 09					
FINITURA 1.6/	MATERIALE:					
▽▽ = 1.6/						
RETTIFICA 0.8/						
▽▽▽ = ▽						
DESCRIZIONE: FV025 DISEGNO DI APPLICAZIONE		CODICE: FV025				
FV025 APPLICATION DRAWING						



CLEANING HEADS
MONTECCHIO E. (RE) – ITALY
DISEGN.: GR ICONTR.: DM
DATA: 08.09.09 MOD.

SCALA 1:2 A3 0

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



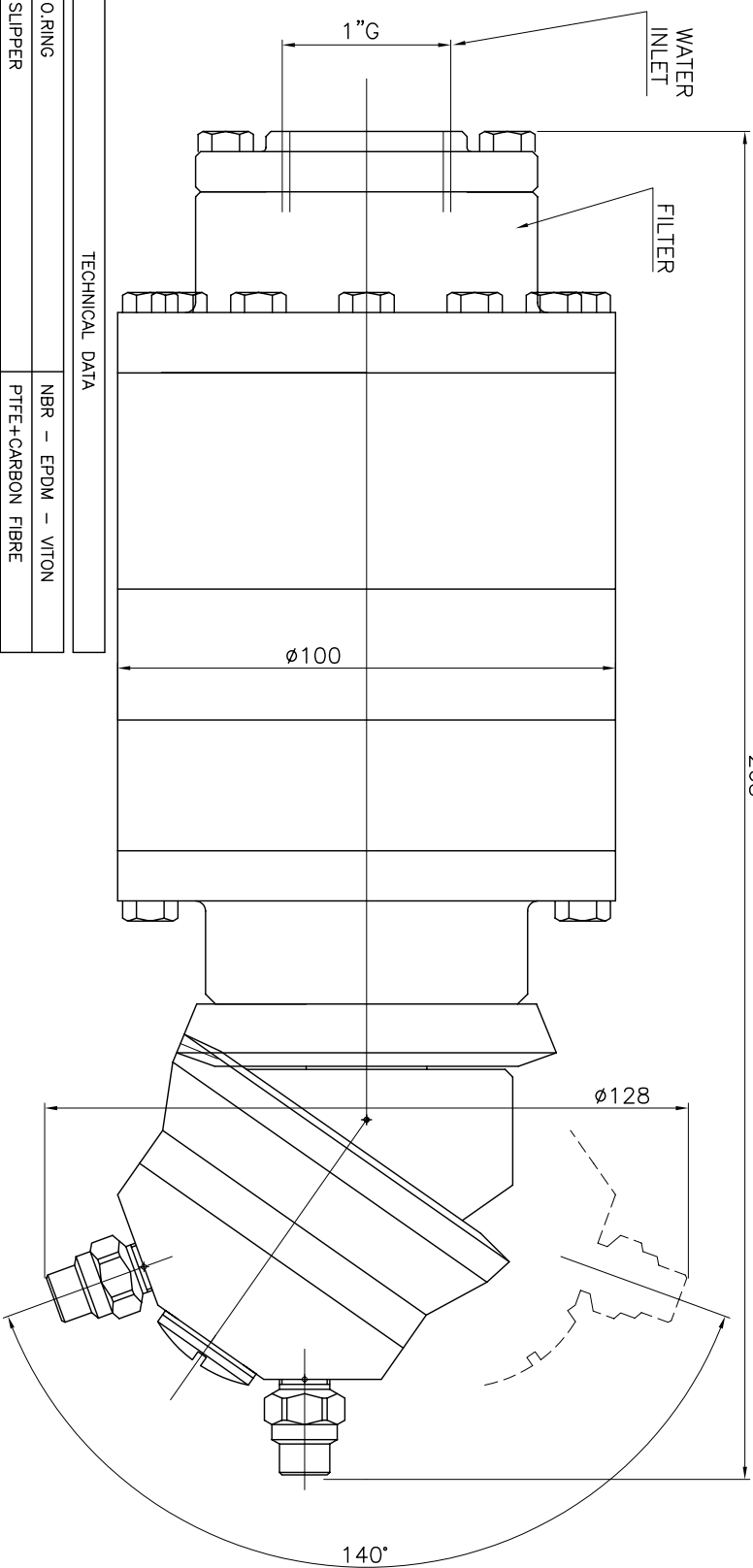
AQUAMOTOR

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.



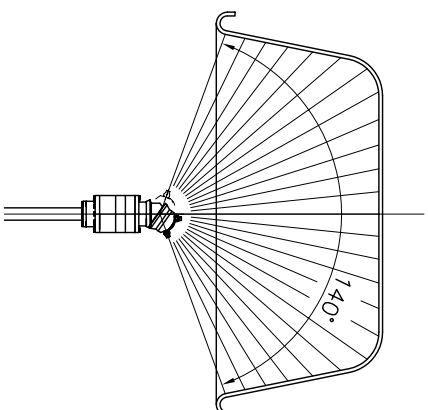
rOtojet



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

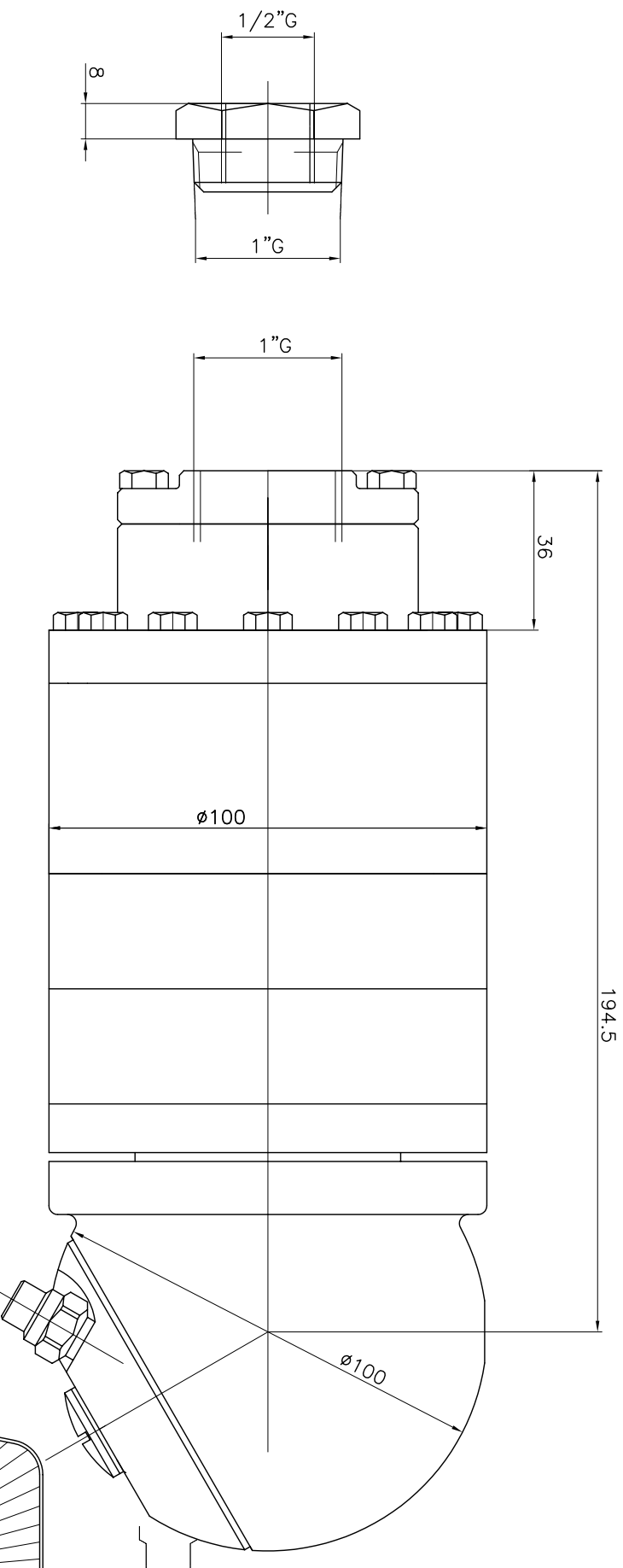
FLOW L/MIN		DIFFUSER POSITION			
1	2	3	4		
15	78	36			
30		90	42		
45			72	42	
60			96	60	
SPINNING SPEED		RPM			



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
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: VERSIONE 01					
FINITURA 1,6/	MATERIALE: INOX+ALLUMINIO					
▽▽ = 1/						
RETIFICA 0,8/	DESCRIZIONE: AQUAMOTOR SECTOR					
▽▽▽ = 1/	VERSIONE PORTAUGELLI INCLINATO					
	PER LAVACASSONETTI 120°					
	CODICE:					
	MS060-A_CF					
	SCALA					
	1:1 A3 0					
	DISIGN.: CR ICONTR.: DM					
	DATE: 18.04.02 MOD.					
	MONTECCHIO E. (RE) - ITALY					
	MONTECCHIO E. (RE) - ITALY					

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



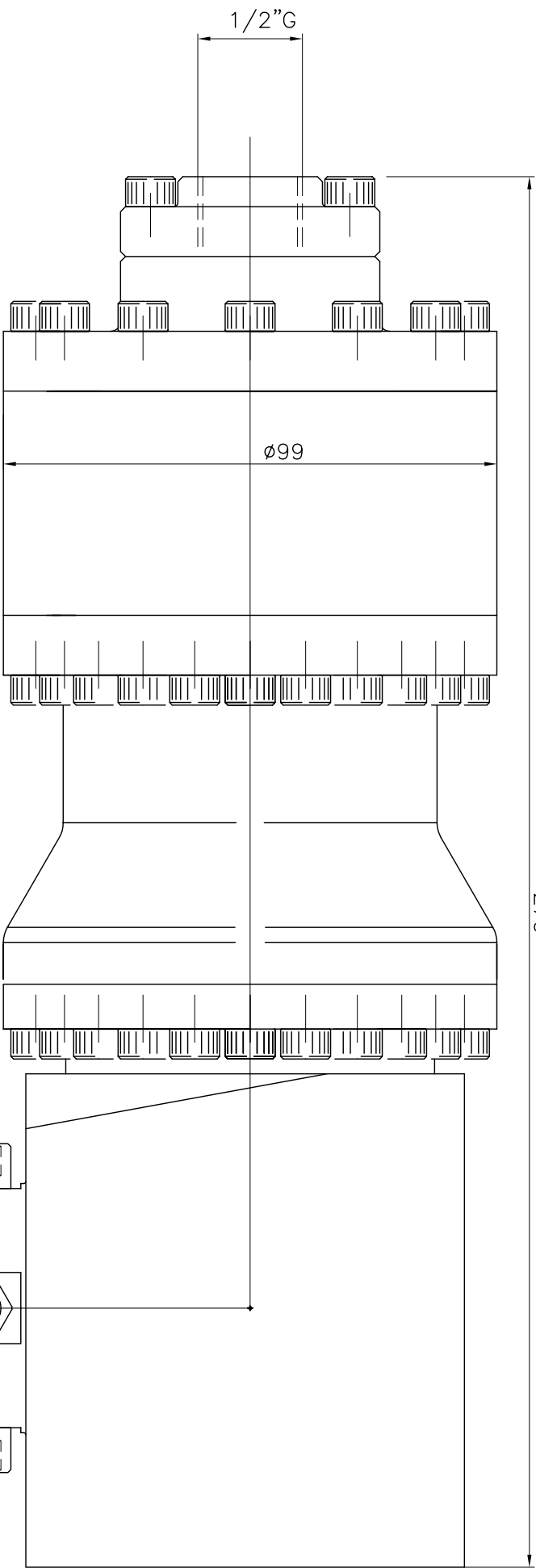
AQUAMOTOR

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.

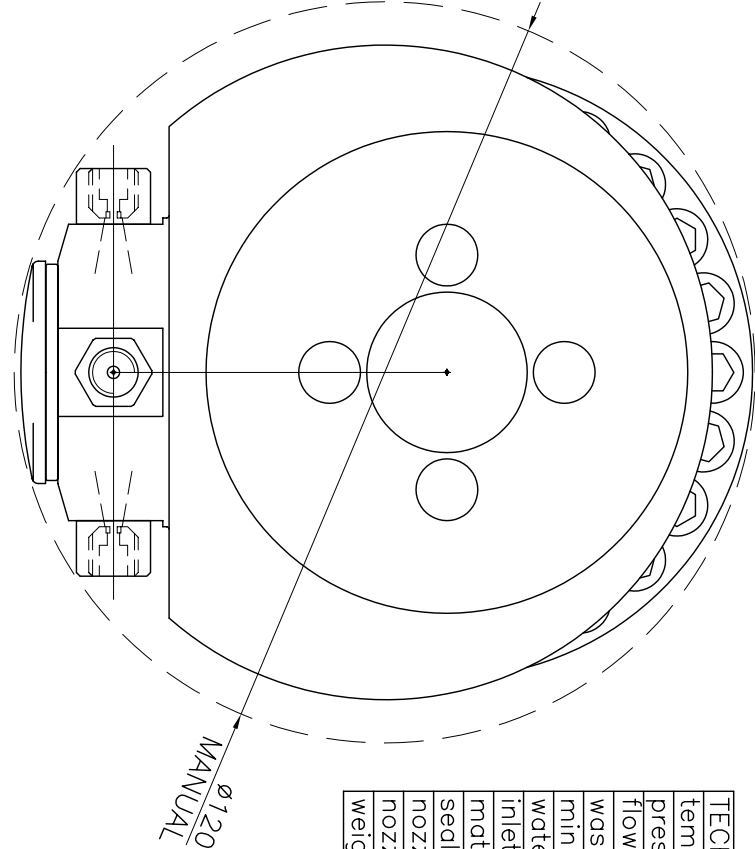


rOtojet

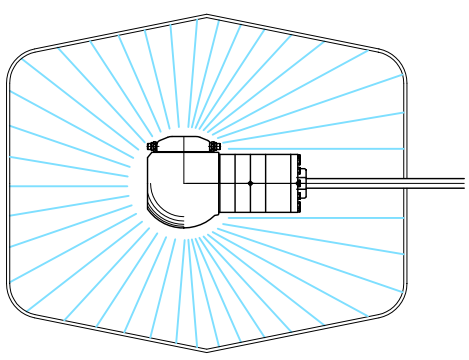
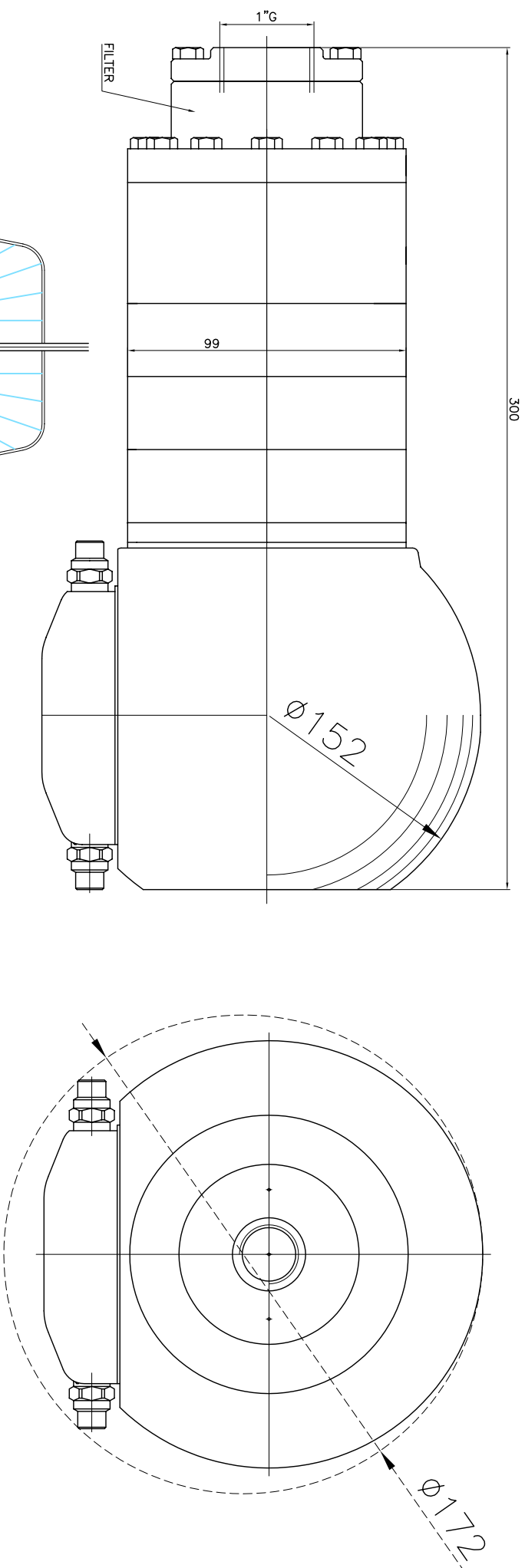


TECHNICAL DATA	
temperature max	90°C
pressure max	500 bar
flow	40-100 l/min
washing cycle time	4.8 min
min. pass-through hole dia.	120 mm (manual)
water inlet	1/2" G
inlet filter	700 micron
material	INOX
seals	NBR
nozzle size	1/8" G SPACIAL
nozzles positions	2 - 4
weight	9.5 Kg

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	16	12
80				19	16	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:					
RETTIFICA 0.8/	MATERIALE:					
Δ = Δ	DESCRIZIONE: MW 510 A					
Δ = Δ	INSTALLATION DRAWING					
Δ = Δ	CODICE: MW 510 A					

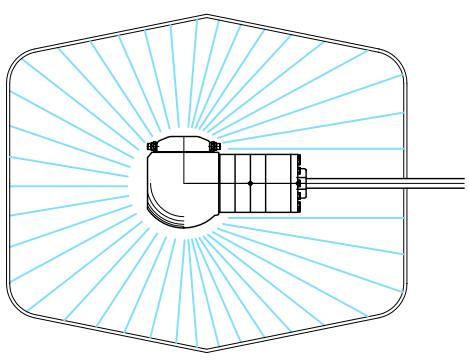
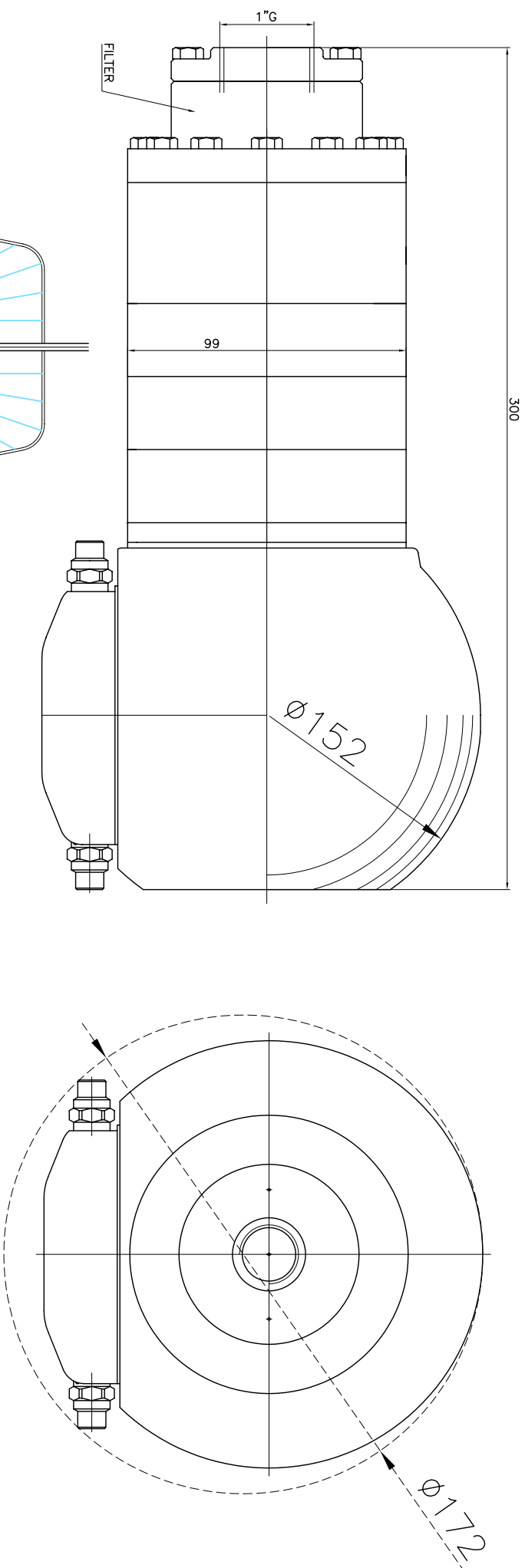


TECHNICAL DATA	
temperature max	90°C
pressure max	200 bar
flow	60-200 l/min
spinning speed	15 rpm
washing cycle time	5 min
min. pass-through hole dia.	172 mm manual
water inlet	1"G
inlet filter	700 micron
nozzle size	1/4"NPT
nozzles positions	2 - 4
weight	13 Kg

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 200A-TK		1:1		A3 0		



CLEANING HEADS
MONTECCHIO E. (RE) - ITALY

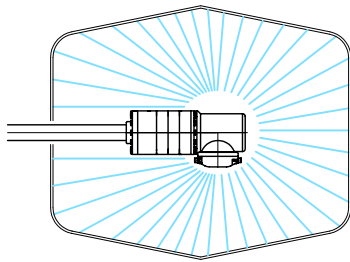
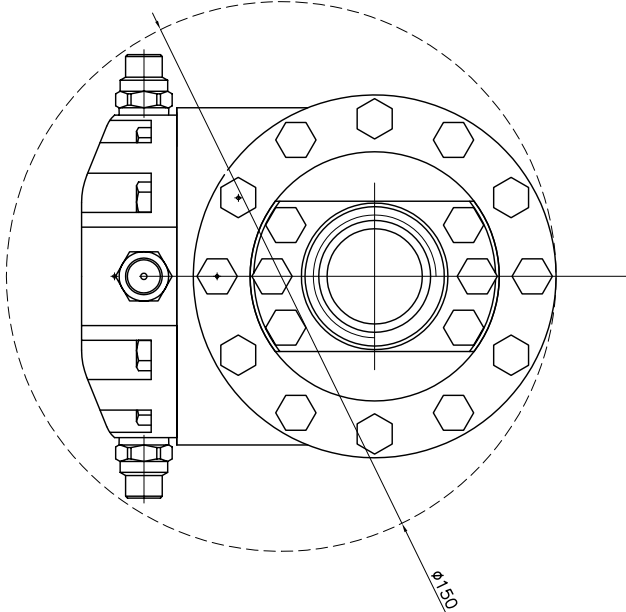
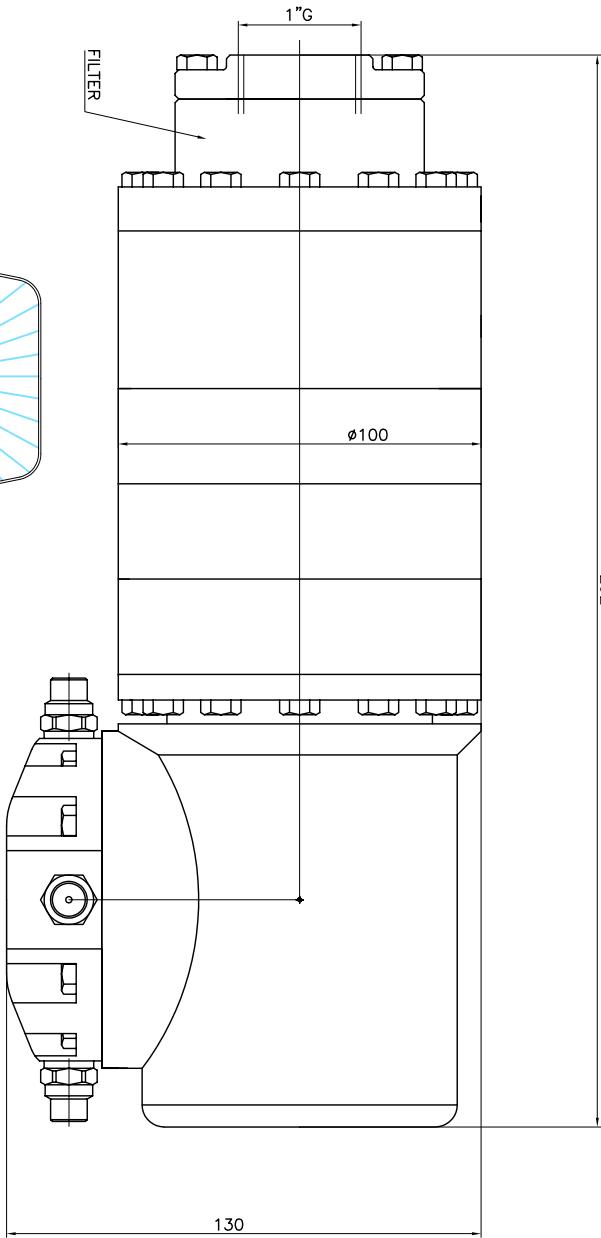


TECHNICAL DATA	
temperature max	90°C
pressure max	200 bar
flow	8–60 l/min
spinning speed	15 rpm
washing cycle time	5 min
min. pass-through hole dia.	172 mm manual
water inlet	1" G
inlet filter	700 micron
nozzle size	1/4" NPT
nozzles positions	2 – 4
weight	13 Kg

RUGOSITA' (UNI 4600)	MODIFICA	1	2	3	4	5
	FOGLIO	XXXX				
GREZZO	DATA	XX.XX.XX				
	TOLLERANZE GENERALI classe m UNI-EN 22768/1					
~ = √	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 086 A-TK					
CODICE:		DISIGN.: CR		CONTR.: DM		
MW 086A-TK		DATA: 25.10.07		MOD.		
		SCALE				
		1:1		A3		
				0		

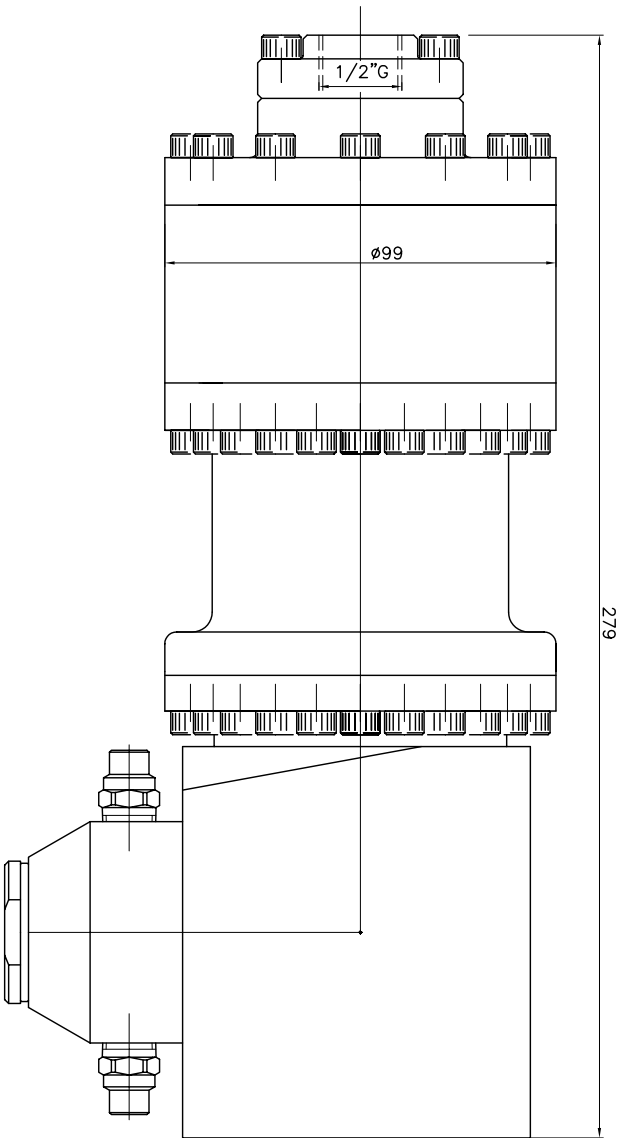
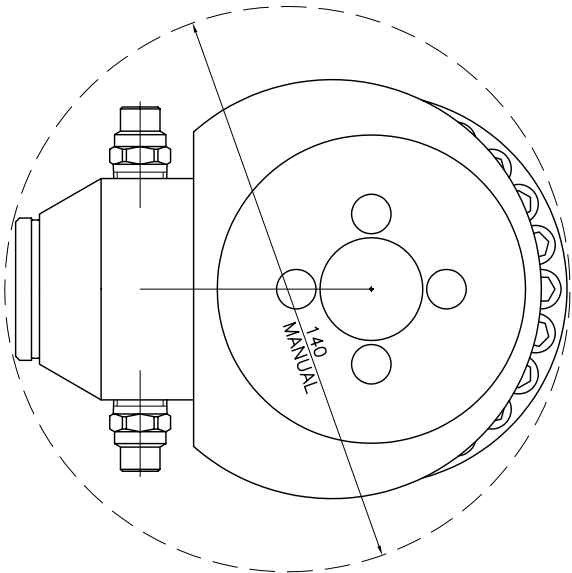


CLEANING HEADS
MONTECCHIO E. (RE) - ITALY



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				
~ = $\sqrt{\text{ }}$	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. $\sqrt{\text{ }}$	NOTE: VERS. 03					
FINITURA $\sqrt{\text{ }}$	MATERIALE:					
RETTIFICA $\sqrt{\text{ }}$	DESCRIZIONE: APPLICATION DRAWING					
MOD. 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
	NOTE:				±1.2
FINITURA 16/					
▽ = 1/2					
RETTIFICA 0.9/					
▽ = 0.9					
MATERIALE:					
DESCRIZIONE: MW 586AA.02					
INSTALLATION DRAWING					
CODICE: MW 586AA.02					
SCALA 1:1 A4 0					
DISEGN.: CR CONTR.: DM					
DATA: 16.11.06 MOD.					
Borini CLEANING HEADS MONTECCHIO E. (RE) - ITALY					

462

364

98

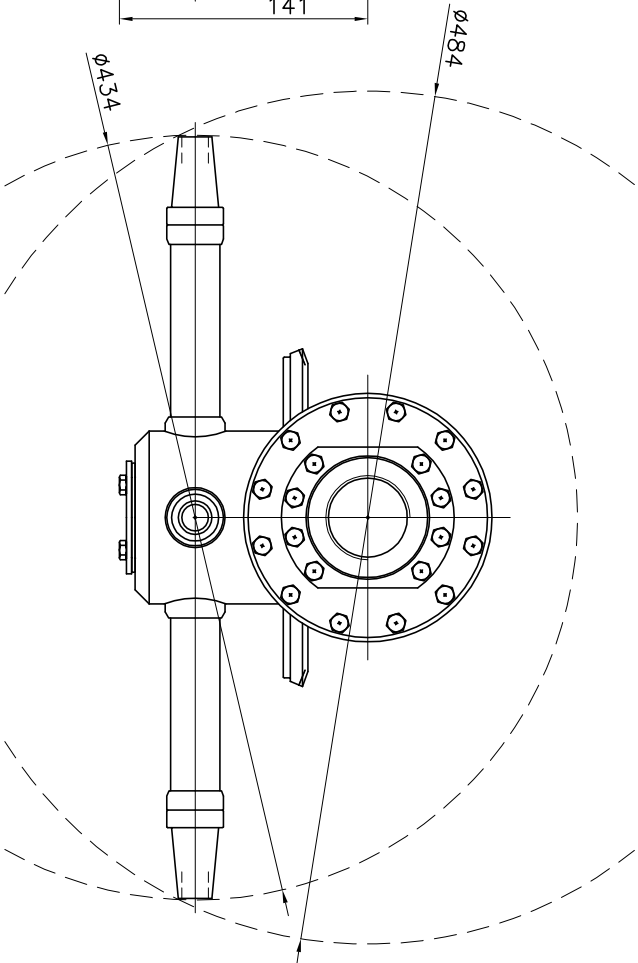
Ø141.3

98

141

Ø484

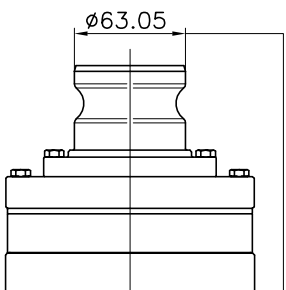
Ø434



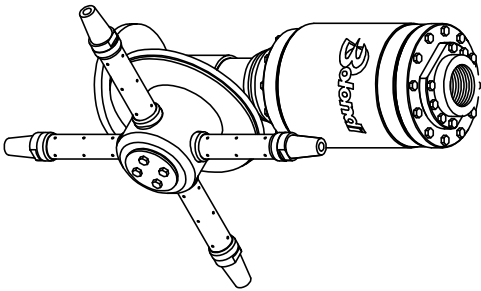
2" NPT-F
2" BSP-F
1.1/2" NPT-F
1.1/2" BSP-F


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



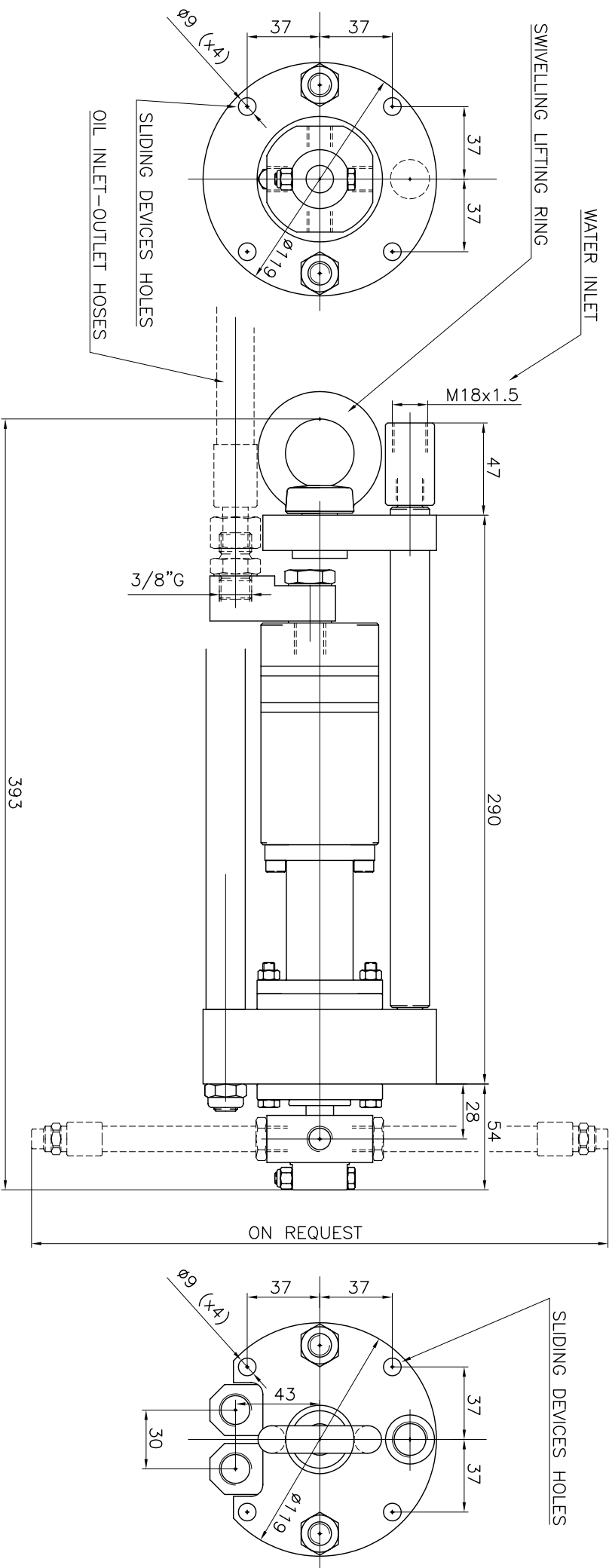
AQUAMOTOR

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	EPDM
SLIPPER	PTFE+CARBON FIBER
BUSHING	AlSi 316
NOZZLES POSITIONS	2 - 4
NOZZLES SIZE	1/4"G SPECIAL
MAX OPERATING FLOW	60 L/MIN.
MAX OPERATING PRESSURE	500 BAR
MIN PASS THROUGH HOLE	120 mm
MAX TEMPERATURE	90 °C
MATERIAL	INOX AISI 316
HYDRAULIC MOTOR	DANFOSS OMM32 (BA0401)
HYDRAULIC OIL FLOW	3.5 L/MIN.
ROTATION SPEED	100 RPM
WEIGHT	11.9 KG

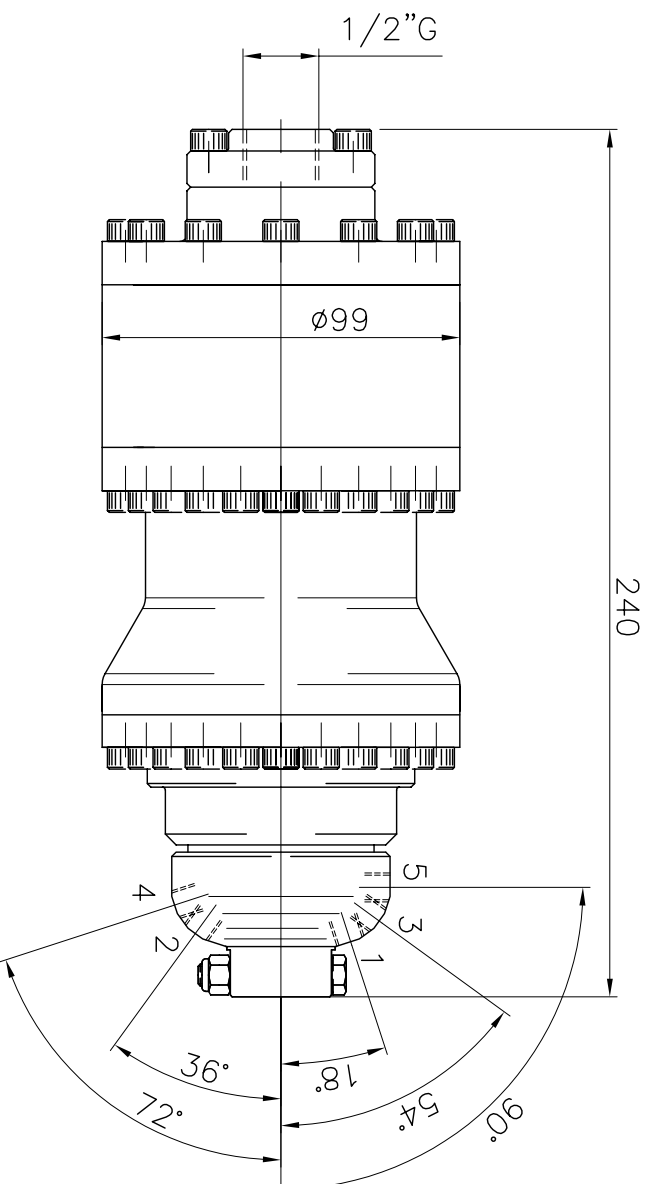
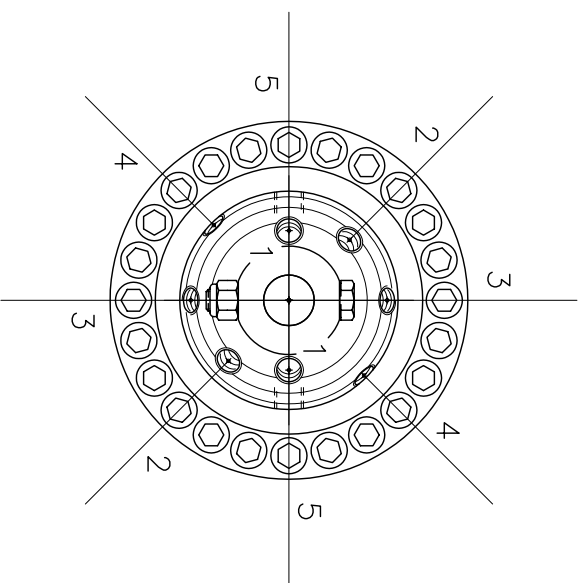
RUGOSITA' (UNI 4600)	MODIFICA	1	2	3	4	5
	FOGLIO	XXXX				
GREZZO	DATA	xx.xx.xx				
~ = ∅	TOLLERANZE GENERALI classe m UNI-EN 22768/1					
SGROSS. 32/∇ = ∇	0-6	6-30	30-120	120-400	400-1000	1000-2000
	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2
	NOTE:					
FINITURA 1.6/∇	MATERIALE:					
∇∇ = ∇						
RETIFICA 0.8/∇∇∇ = 0.8/∇	DESCRIZIONE: PW 586HY					
	INSTALLATION DRAWING					
	CODICE: PW 586HY					



CLEANING HEADS
MONTECCHIO E. (RE) - ITALY

DISIGN.: CR | CONTR.: DM
DATA: 31.01.11
MOD.

SCALE
1:2 A3 0



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

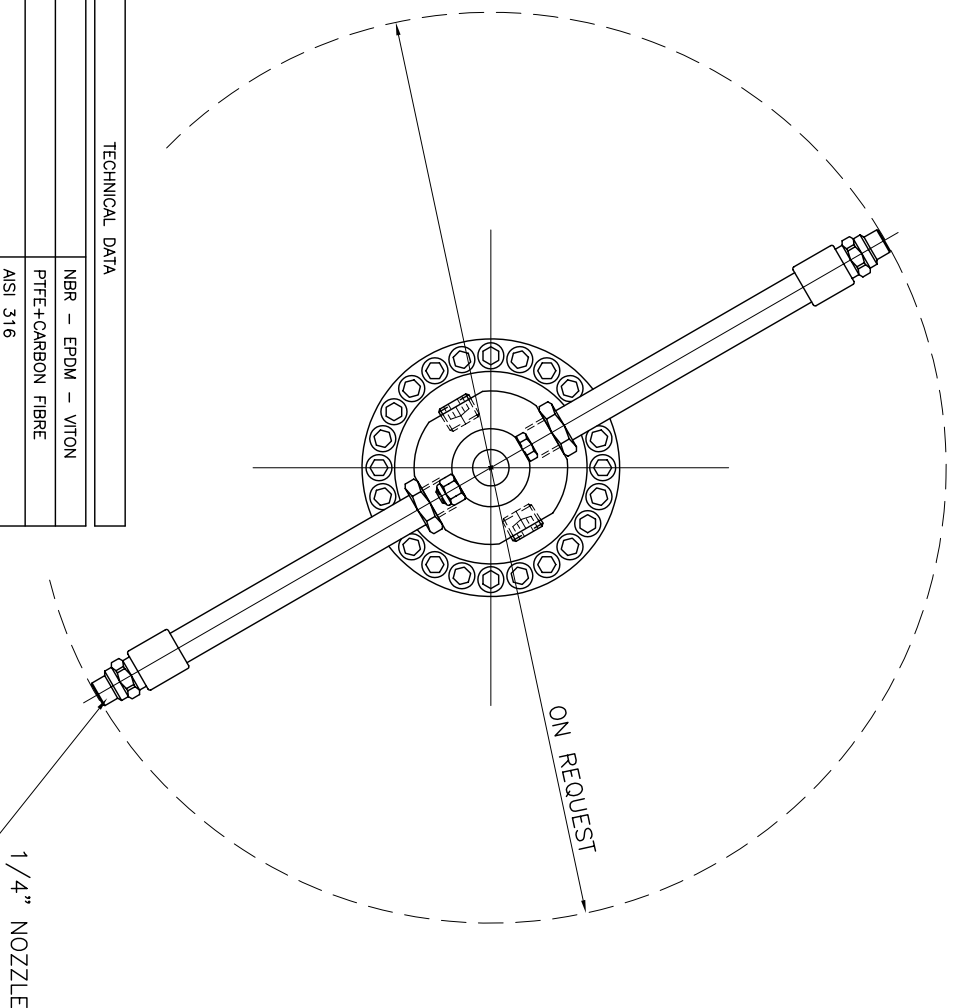
RUGOSITA' (UNI 4600)	MODIFICA	1	2	3	4	5
	FOGLIO	XXXX				
	DATA	XX.XX.XX				
	GREZZO					
~ = ρ/	TOLLERANZE GENERALI classe m UNI-EN 22768/1	0÷6	6÷30	30÷120	120÷400	400÷1000
SGROSS.		±0.1	±0.2	±0.3	±0.5	±0.8
▽ = ∇/	NOTE:					
FINITURA	MATERIALE:					
▽▽ = ∇/						
RETTIFICA	DESCRIZIONE: PW 586AAB SL	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



CLEANING HEADS
MONTECCHIO E. (RE) – ITALY

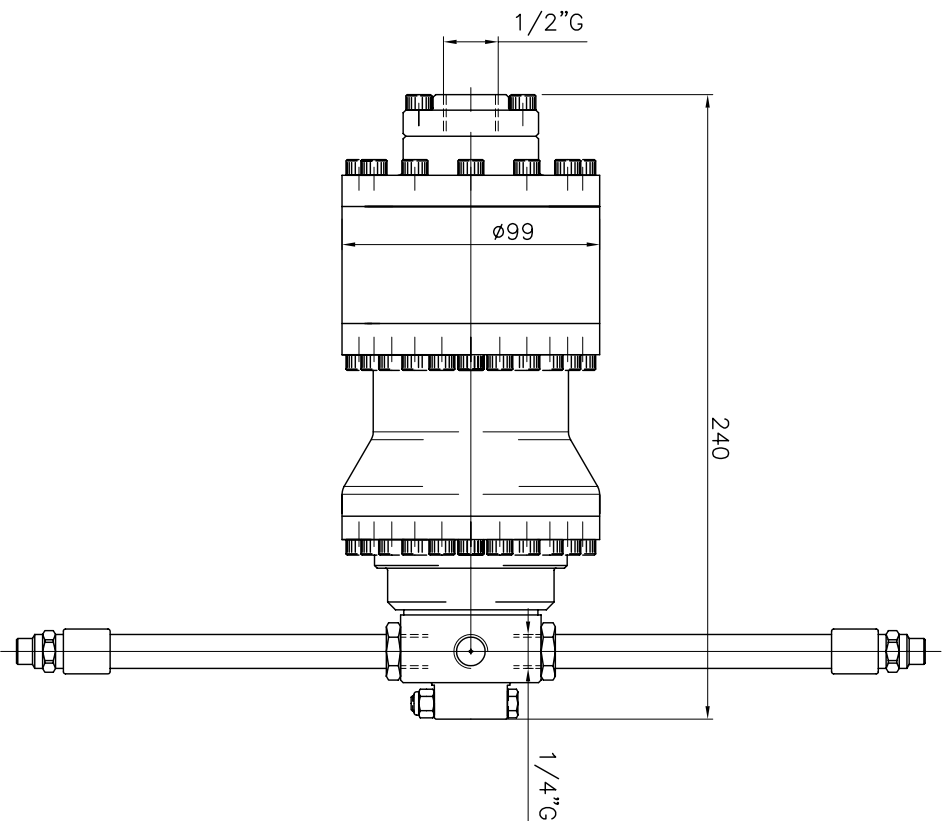
DISEGN.: CR | CONTR.: DM
DATA: 21.03.11 | MOD.

SCALA 1:2 | A4 | O



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" G
TESTING NOZZLES	0 x 0000
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 AISI 316
DIFUSER SPEED SETTING POSITIONS	4
TESTING DIFUSER POSITION	X
ROTATION SPEED	SEE CHART
WEIGHT	9,6 KG

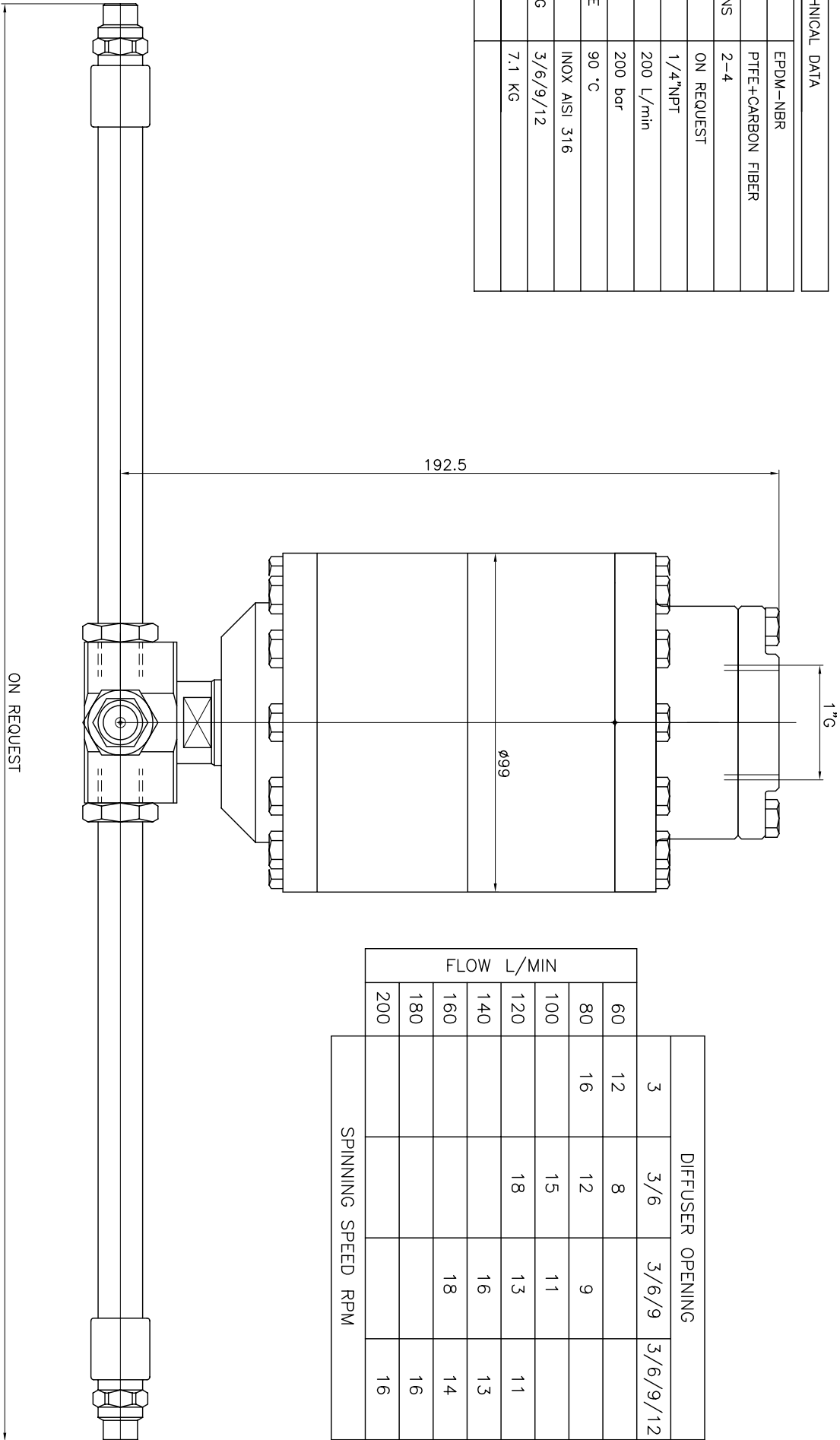
FLOW L/MIN		DIFUSER POSITION			
1	2	3	4		
15	44	21			
30		51	24		
45		41	24		
60		54	34		
		SPINNING SPEED		RPM	




RUGOSITA' (UNI 4600)	MODIFICA	1	2	3	4	5
	FOGLIO	XXXX				
GREZZO	DATA	xx.xx.xx				
~ = Ø	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 1/8	MATERIALE:					
▽ = 1/8						
RETTIFICA 0,8/	DESCRIZIONE: PW 586A SP					
▽ = 0,8	INSTALLATION DRAWING					
	CODICE:					
	PW 586A SP					
	1:2	A4		O		
	SCALE	DATA: 21.02.11		MOD.		

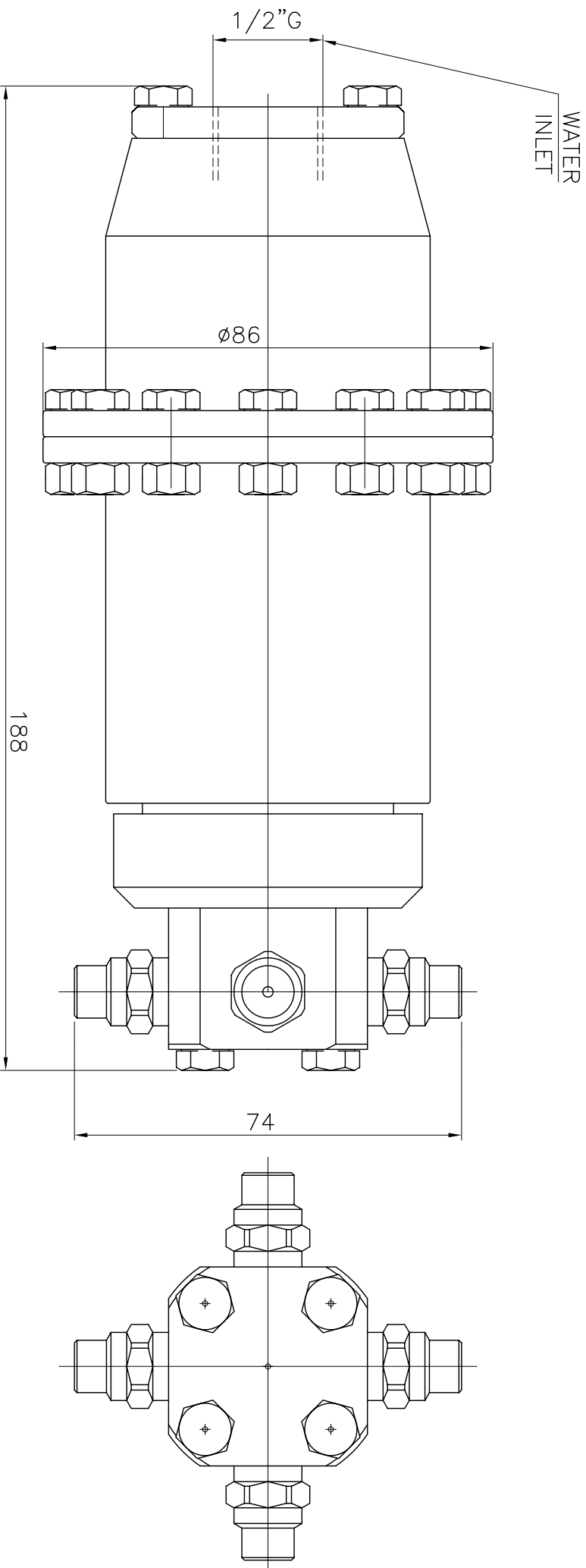


TECHNICAL DATA		
O.RING	EPDM-NBR	
SLIPPER	PTFE+CARBON FIBER	
NOZZLES POSITIONS	2-4	
NOZZLES CIRCLE	ON REQUEST	
NOZZLES SIZE	1/4"NPT	
MAX FLOW	200 L/min	
MAX PRESSURE	200 bar	
MAX TEMPERATURE	90 °C	
MATERIAL	INOX AISI 316	
DIFFUSER OPENING	3/6/9/12	
WEIGHT	7.1 KG	

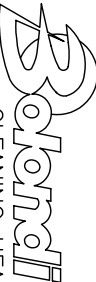


DIFFUSER OPENING				
3	3/6	3/6/9	3/6/9/12	
60	12	8		
80	16	12	9	
100		15	11	
120		18	13	11
140			16	13
160			18	14
180				16
200				16
SPINNING SPEED RPM				

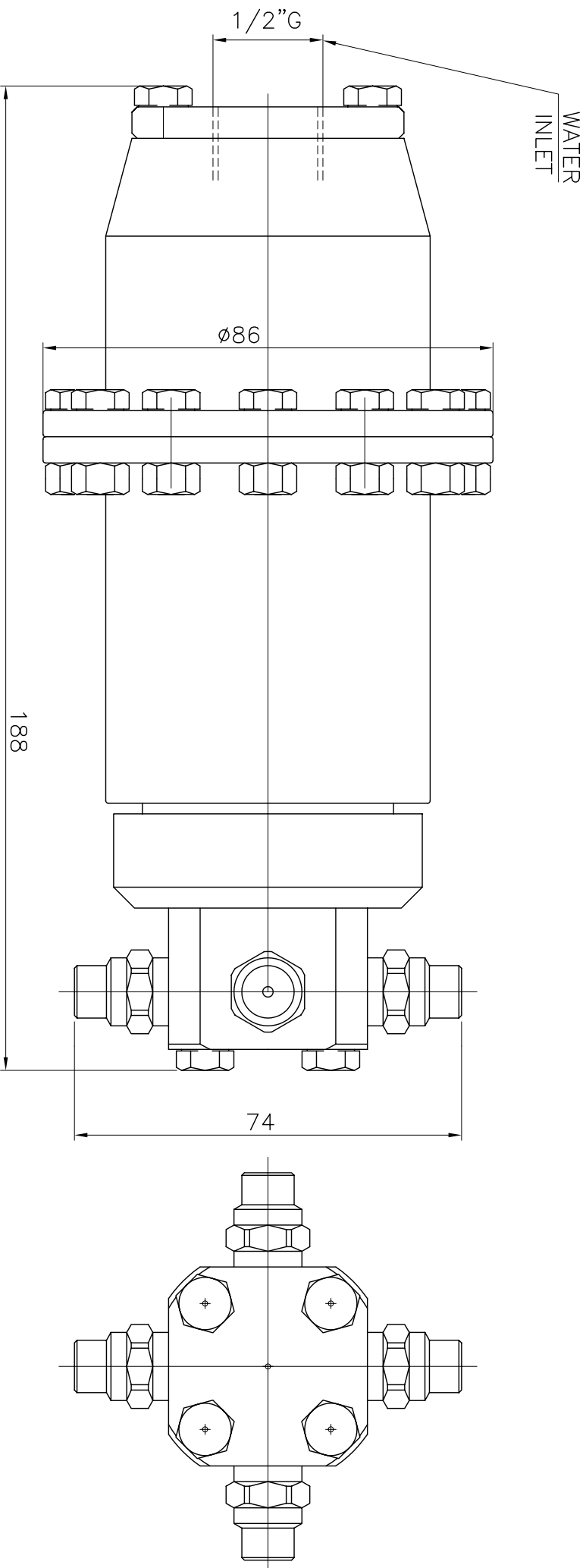
RUGOSITA' (UNI 4600)	MODIFICA	1	2	3	4	5	 CLEANING HEADS MONTECHIO E. (RE) - ITALY DISIGN: CRICOINTRA: DM DATA: 26.07.05 MOD. SCALE 1:1 A3 O
FOGLIO	XXXX						
DATA	XX XX XX						
GREZZO	TOLLERANZE GENERALI classe m UNI-EN 22768/1						
~ = ø/	0±0.6 6±30 30±120 120±400 400±1000 1000±2000						
SGROSS. 3/2	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2	
∇ = √	NOTE: VERSION .05						
FINITURA	MATERIALE: STAINLESS STEEL						SCALE 1:1 A3 O
∇∇ = 1/8							
RETTIFICA							
∇∇∇ = 0.8	DESCRIZIONE: APPLICATION DRAWING						COPICE: 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) GREZZO ~ = φ / SGROSS. $3,2/\varnothing$ ∇ = ∇ / FINITURA $1,6/\nabla$ $\nabla\nabla$ = ∇ / RETTIFICA $0,8/\nabla$ $\nabla\nabla\nabla$ = ∇ / MODIFICA FOGLIO DATA TOLLERANZE GENERALI classe m UNI-EN 22768/1 0÷6 6÷30 30÷120120÷400400÷10001000÷2000 ± 0.1 ± 0.2 ± 0.3 ± 0.5 ± 0.8 ± 1.2 NOTE: MATERIALE: INOX DESCRIZIONE: PW 186SP 01 INSTALLATION DRAWING	1	2	3	4	5
	XXXX				
	XX.XX.XX				
					
CLEANING HEADS MONTECCHIO E. (RE) - ITALY					
DISEGN.: CR		CONTR.: DM			
DATA: 11.02.09					
SCALA					
1:1		A4			
				O	
MOD.					
CODICE: PW 186SP 01					

file: PW 186SP 01 cm



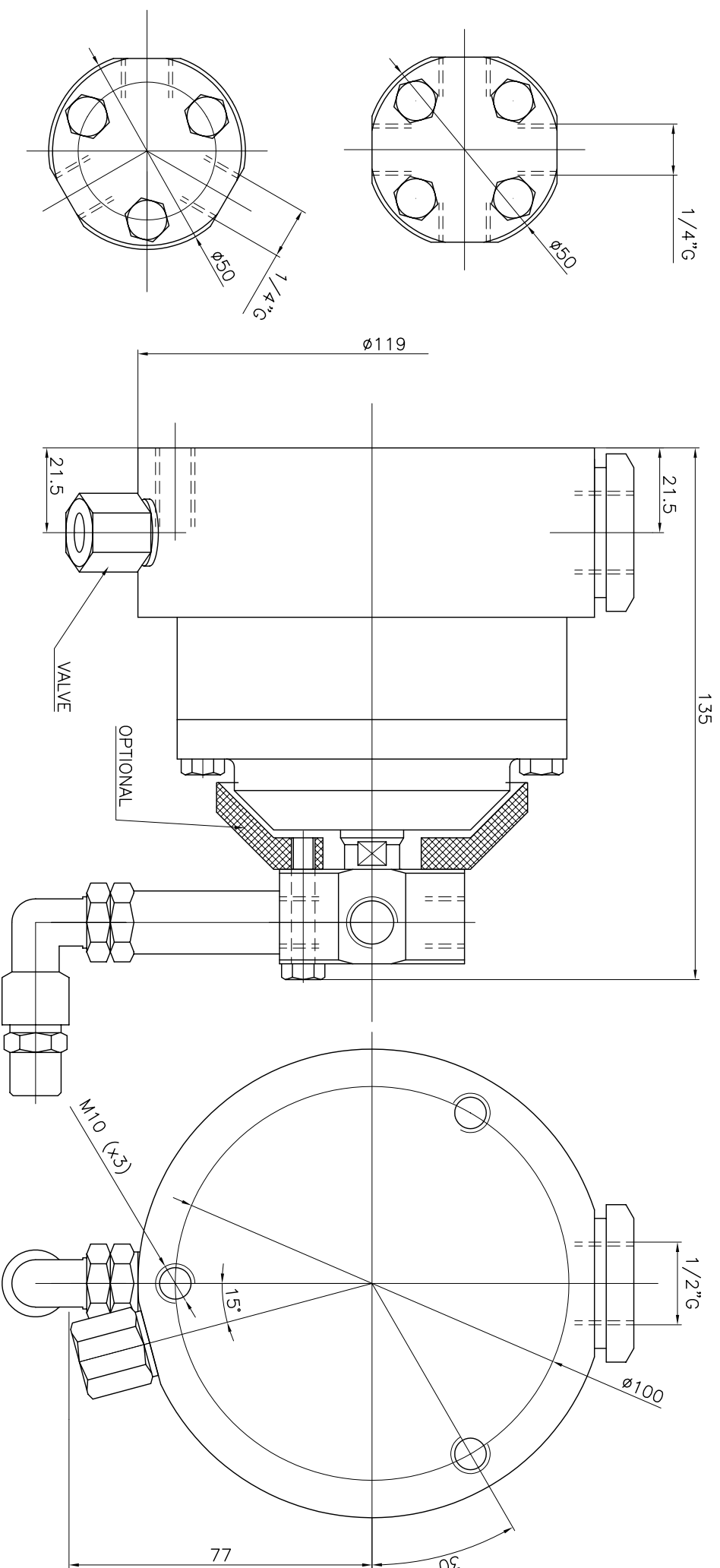
TECHNICAL DATA	
temperature max	90°C
pressure max	150 bar
flow	15–60 l/min
spinning speed	20 rpm
min. pass-through hole dia.	86 mm
water inlet	1/2"G
inlet filter	700 micron
nozzle size	1/4"NPT
nozzles positions	2 – 4
weight	2.8 Kg

RUGOSITA' (UNI 4600) GREZZO ~ = φ / SGROSS. $\frac{3,2}{\varphi}$ ∇ = $\frac{3,2}{\varphi}$ FINITURA $\frac{1,6}{\varphi}$ $\nabla\nabla$ = $\frac{1,6}{\varphi}$ RETTIFICA $\frac{0,8}{\varphi}$ $\nabla\nabla\nabla$ = $\frac{0,8}{\varphi}$	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
NOTE:	± 0.1	± 0.2	± 0.3	± 0.5	± 0.8	± 1.2
MATERIALE: INOX						
DESCRIZIONE: PW 186SL 01 INSTALLATION DRAWING						
CODICE: PW 186SL 01						
		SCALE	1:1	A4	MOD.	


file: PW 186SL 01 cm



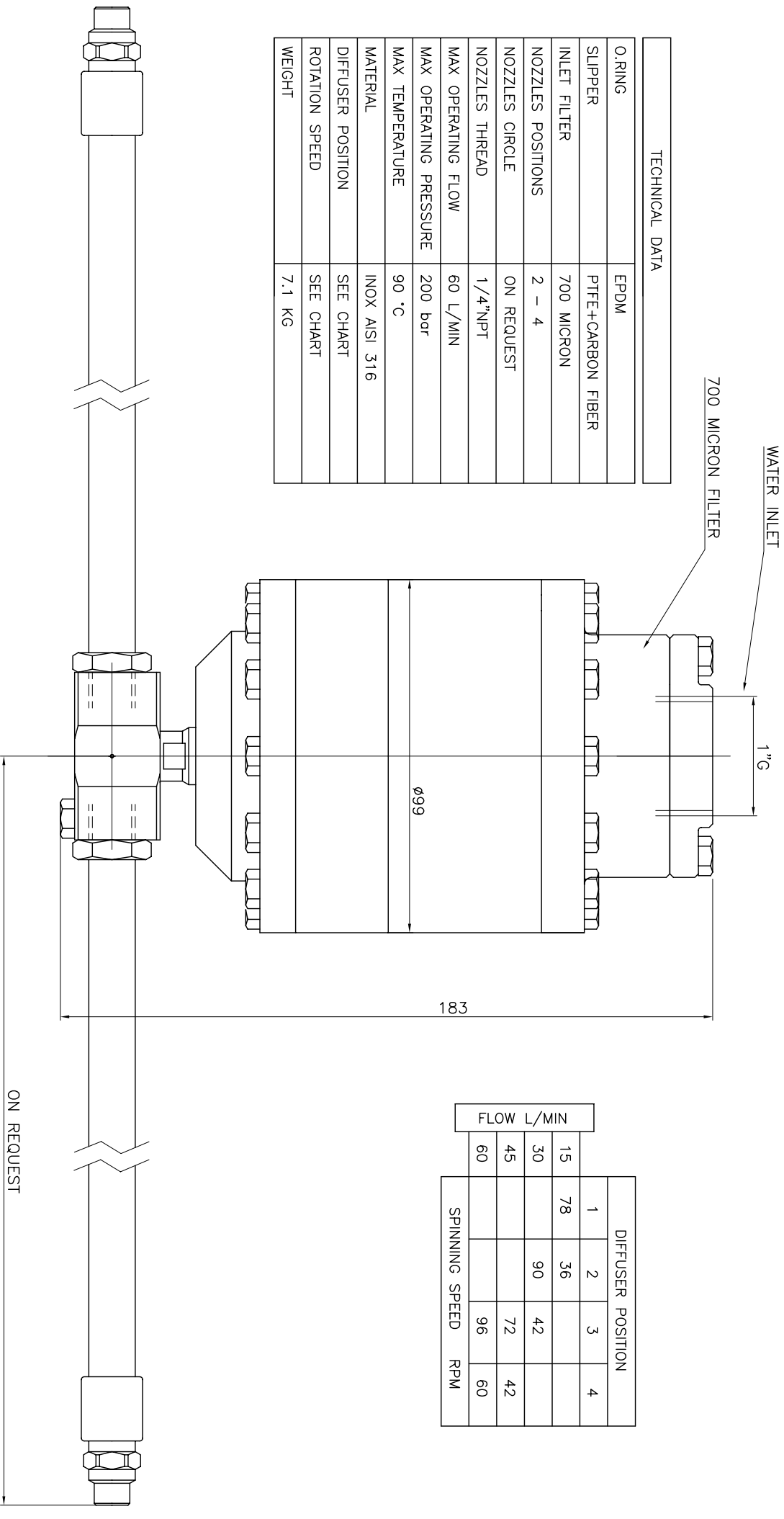
CLEANING HEADS
MONTECCHIO E. (RE) – ITALY
DISEGN.: CR CONTR.: DM
DATA: 07.09.07



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				

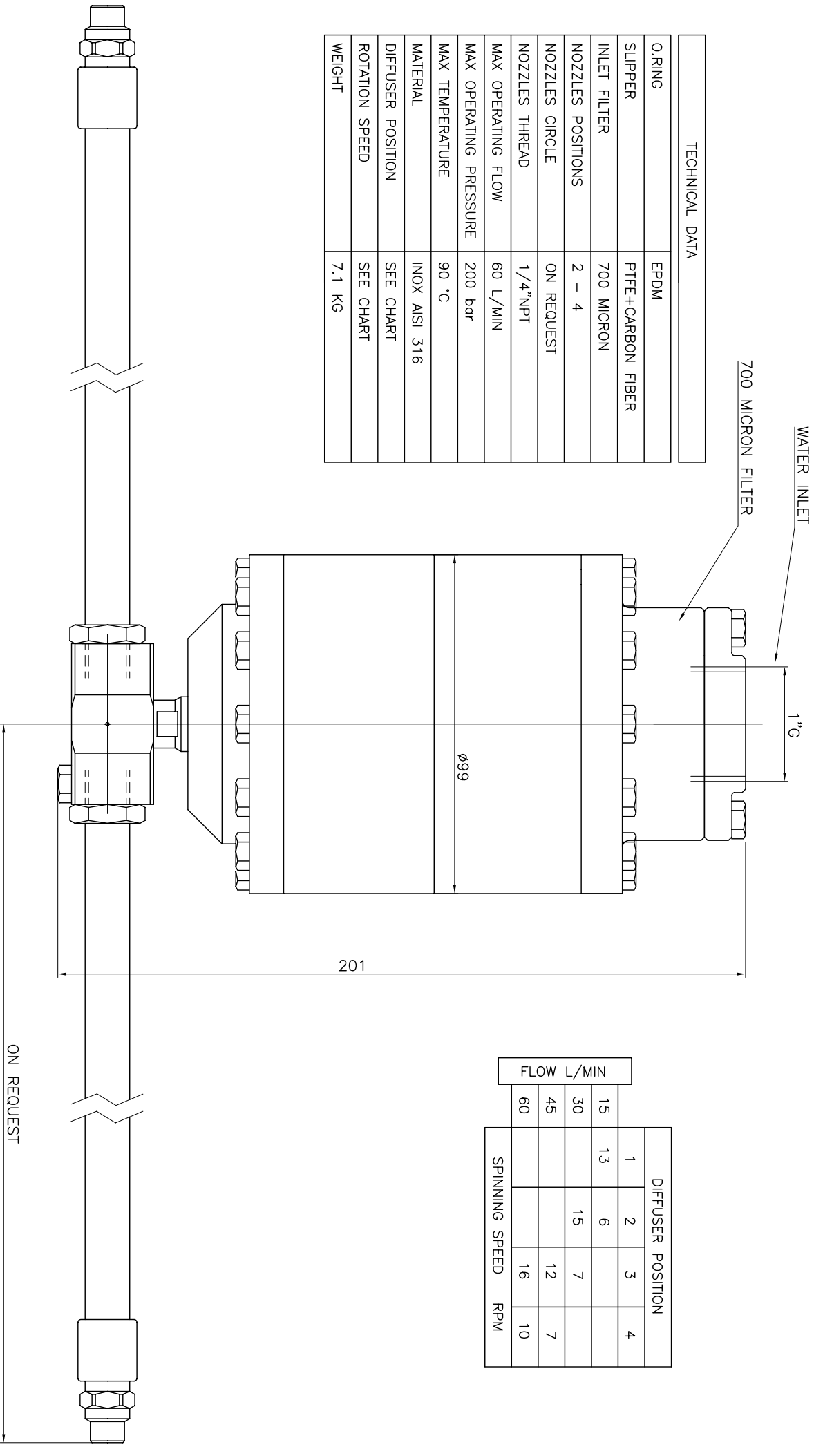
RUGOSITA' (UNI 4600)	MODIFICA	1	2	3	4	5	 CLEANING HEADS MONTECCHIO E. (RE) - ITALY DISEGN.: CR1CONTR.: DM DATA: 02.08.01 MOD.
GREZZO	FOGLIO	XXXX					
~ = ø	DATA	XX.XX.XX					
SGROSS. ±0.1	TOLLERANZE GENERALI classe m UNI-EN 22768/1	0÷6	6÷30	30÷120	120÷400	400÷1000	
∇ = 3/2	NOTE: versione 05	±0.2	±0.3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




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: VERSION 05					
FINITURA	MATERIALE: INOX					
RETTIFICA	DESCRIZIONE: PW 060 SP					
	APPLICATION DRAWING					
	CODICE: PW 060 SP					

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

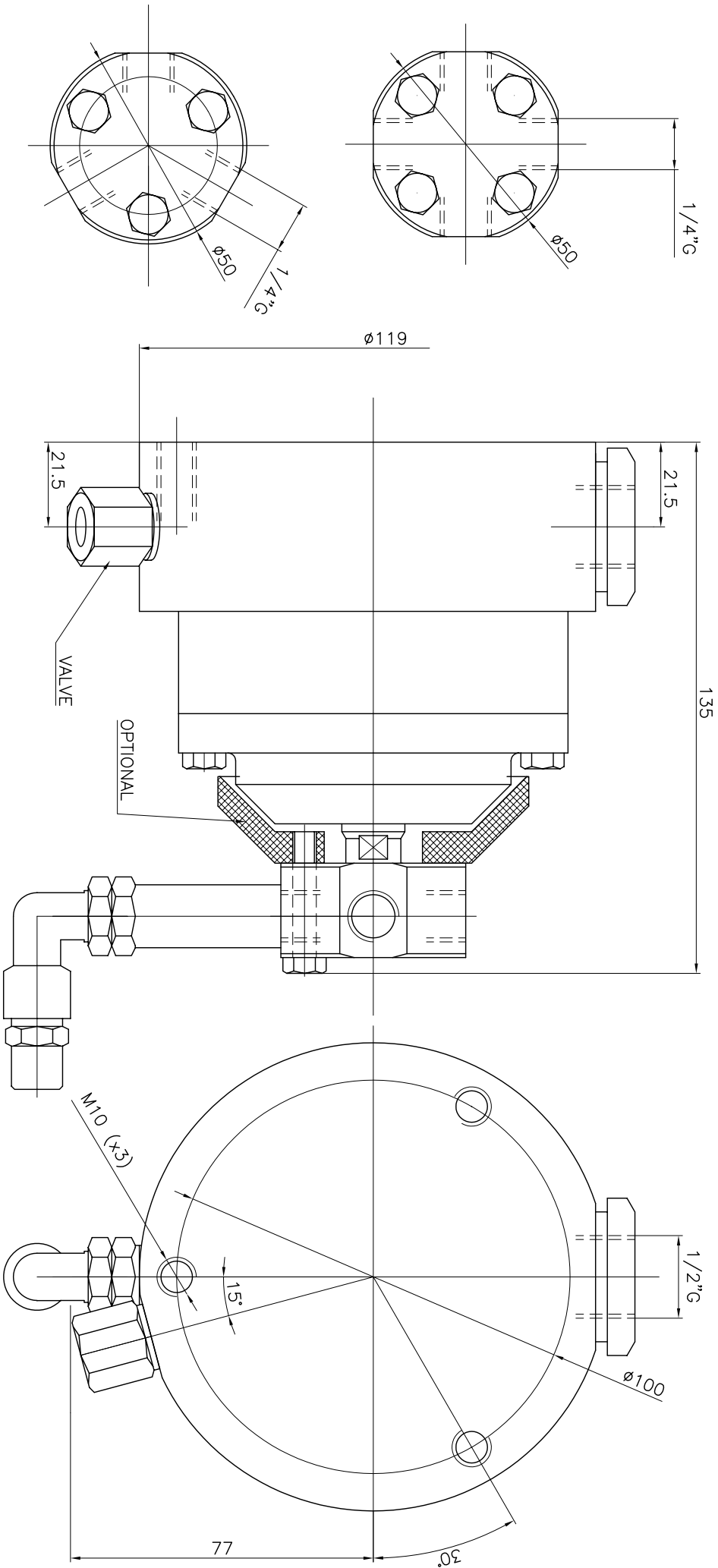


ROGOSITA' (UNI 4600)	MODIFICA	1	2	3	4	5
	FOGLIO	xxxx				
GREZZO	DATA	xx.xx.xx				
~ = ∅	TOLLERANZE GENERALI classe m UNI-EN 22768/1					
SGROSS.	0÷6	6÷30	30÷120	120÷400	400÷1000	1000÷2000
▽ = 3/2	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2
NOTE: VERSION 05						
FINITURA 1.6/	MATERIALE: INOX					
▽▽ = ∅						
RETIFICA 0.8/	DESCRIZIONE: PW 060 SL					
▽▽ = 0.8/	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



PRESSIONE 5/200 Bar PRESSURE RANGE	100 BAR					
UGELLO MOTORE MOTOR NOZZLE	ø3 MM	ø4 MM	ø5 MM	ø5 MM	ø6 MM	ø7 MM
PORTATA FLOW	15 L/MIN	30 L/MIN	30 L/MIN	45 L/MIN	45 L/MIN	60 L/MIN
VELOCITA' ROTAZIONE SPEED	65 GIRI/MIN RPM	95 GIRI/MIN RPM	80 GIRI/MIN RPM	120 GIRI/MIN RPM	95 GIRI/MIN RPM	145 GIRI/MIN 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	
SGROSS.	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2
▽ = 3.2/	NOTE: versione 05					
FINITURA 1.6/						
▽ = 1.6/						
RETTIFICA 0.8/						
▽ = 0.8/						
DESCRIZIONE: AQUAMOTOR VERS LAVAGGIO FRONTALE						
AQUAMOTOR SURFACE WASHING VERS.						
CODICE: PW 060 LC						
SCALA 1:1						
MOD.						



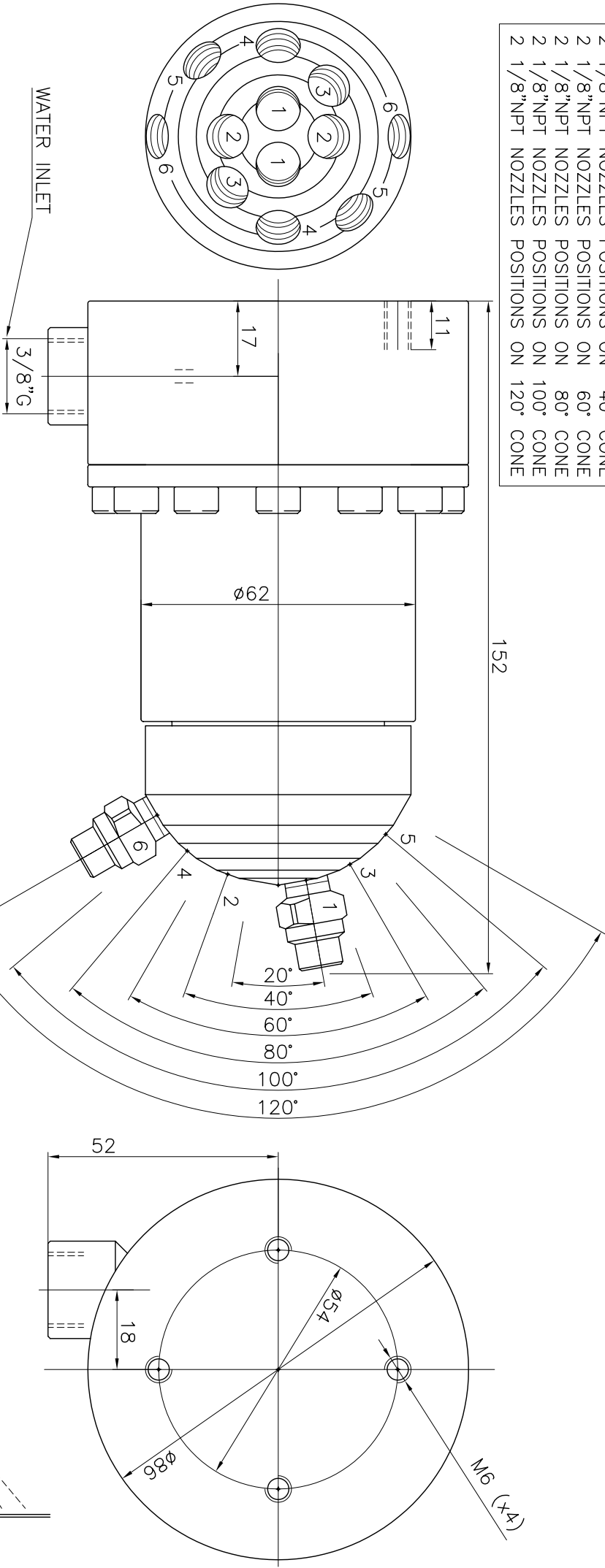
MONTECCHIO E. (RE) - ITALY

DISIGN.: CR1 CONTR.: DM

DATA: 02.08.01

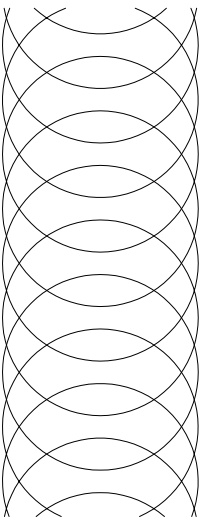
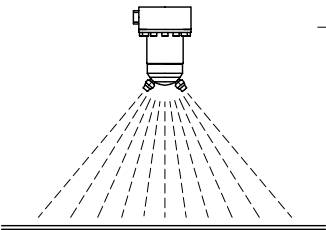
2	1/8"NPT	NOZZLES	POSITIONS	ON	20°	CONE
2	1/8"NPT	NOZZLES	POSITIONS	ON	40°	CONE
2	1/8"NPT	NOZZLES	POSITIONS	ON	60°	CONE
2	1/8"NPT	NOZZLES	POSITIONS	ON	80°	CONE
2	1/8"NPT	NOZZLES	POSITIONS	ON	100°	CONE
2	1/8"NPT	NOZZLES	POSITIONS	ON	120°	CONE

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				
turbine nozzle	15	18	20	25	30	
washing nozzles	3,0 mm	4,0 mm	4,0 mm	5,0 mm	6,0 mm	
	2x0003	2x0004	2x0004	2x0055	2x0065	
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				
GREZZO	TOLLERANZE GENERALI classe m UNI-EN 22768/1					
~ = ρ/	0÷6	6÷30	30÷120	120÷400	400÷1000	1000÷2000
SGROSS. 32/	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2
▽ = √	NOTE: vers. 01					
FINITURA ∇∇ = √	MATERIALE:					
RETTIFICA 0.8/ ∇∇∇ = √	DESCRIZIONE: SURFACE WASHING SIDE INLET INSTALLATION DRAWING					
<div><div>CLEANING HEADS</div><div>MONTECCHIO E. (RE) - ITALY</div></div>						
CODICE:		PW049-AAB				
SCALE		1:1	A4	O		
		DISIGN.:	CR	CONTR.:	DM	MOD.
		DATA: 14.04.09				

WATER INLET

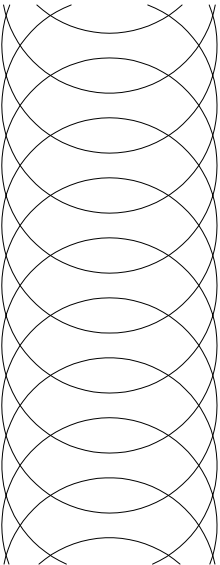
FILTER

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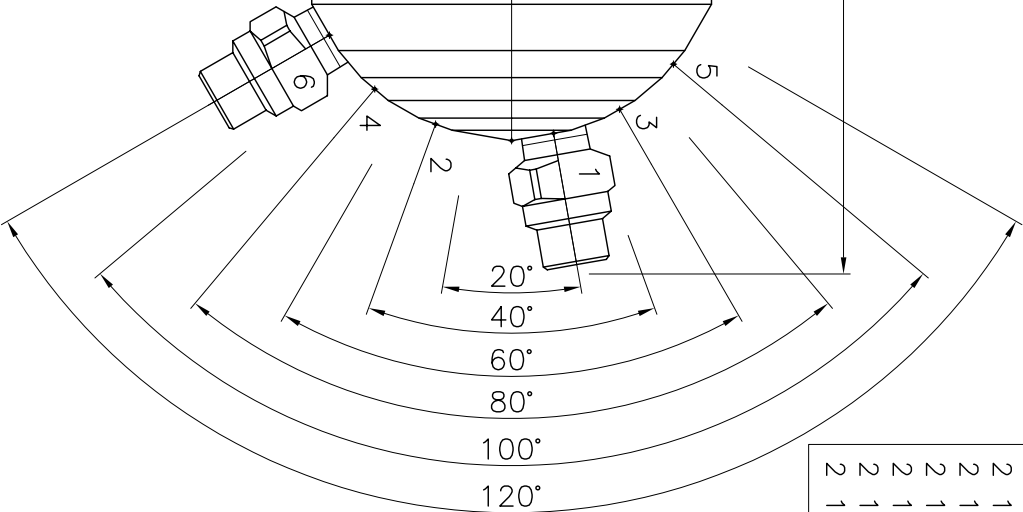
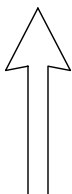
1/2"G

ø86

ø62

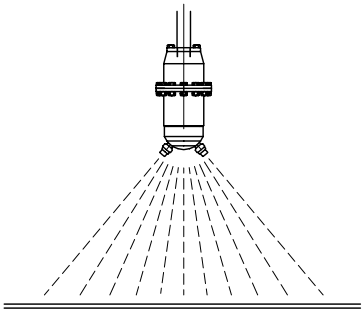
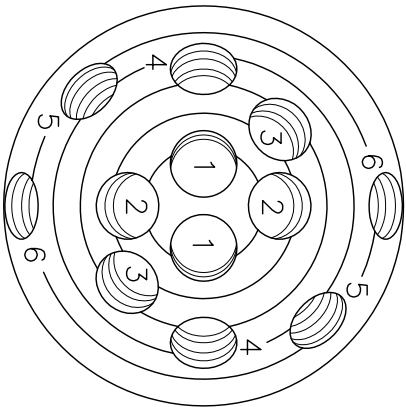


WITH LINEAR MOTION PATTERN



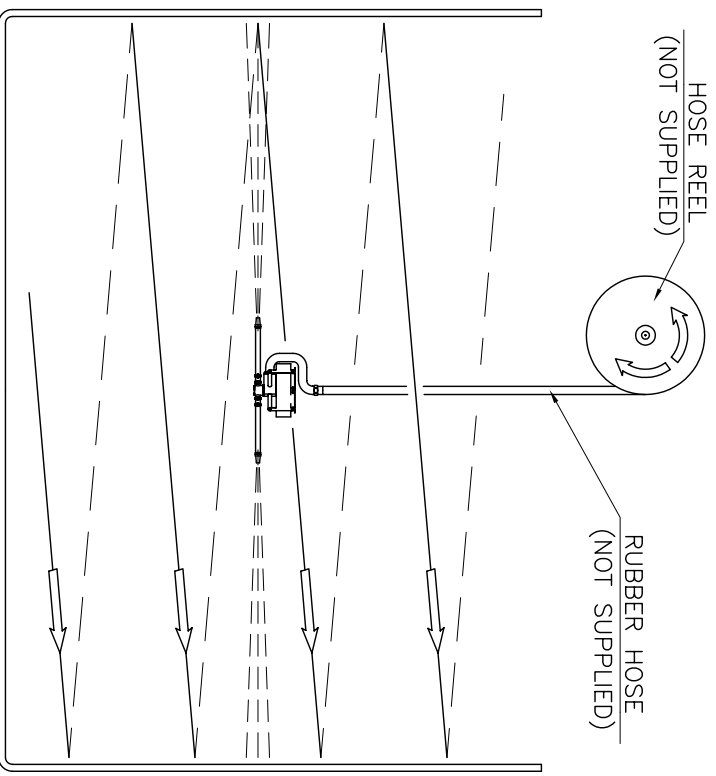
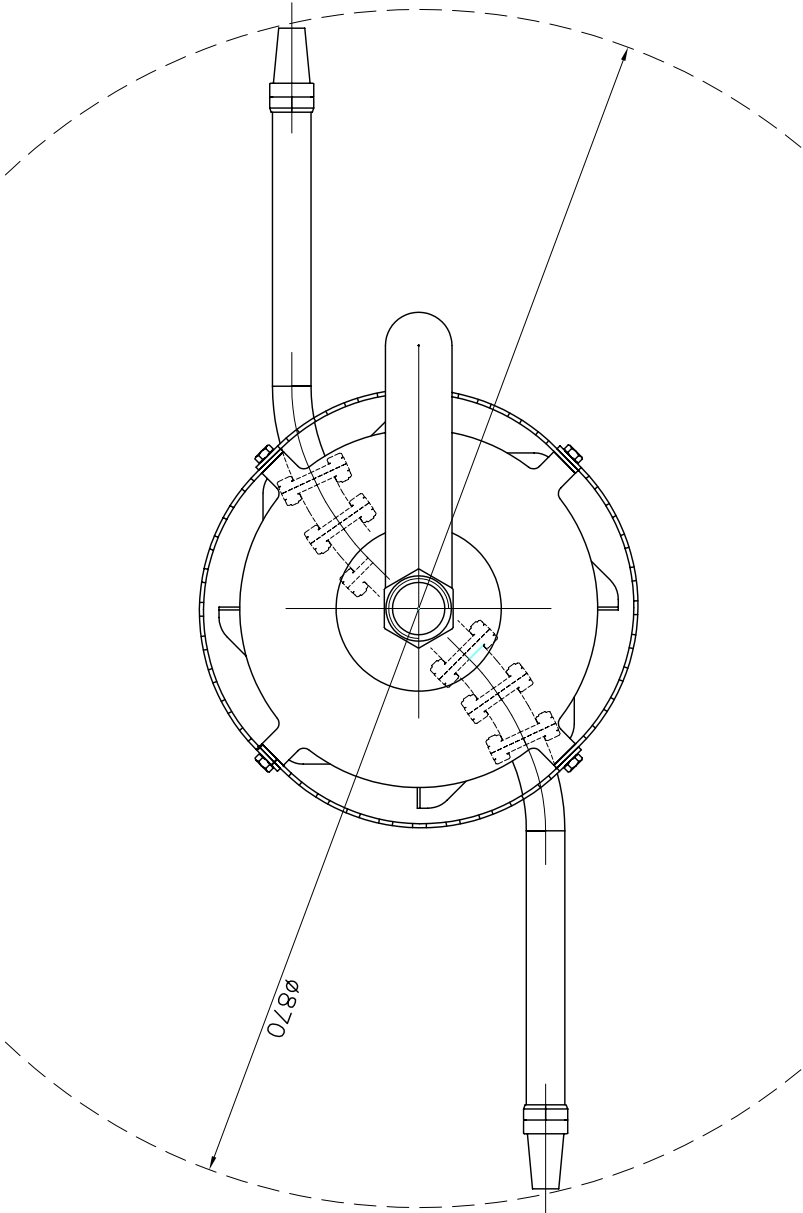
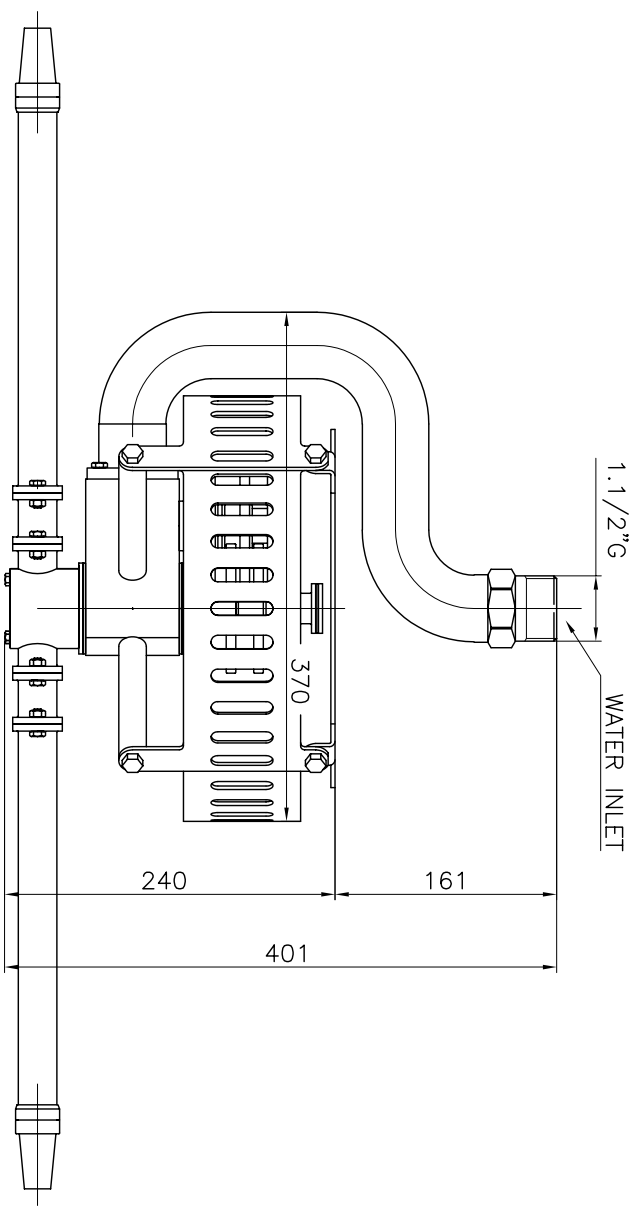
2	1/8"NPT	NOZZLES	POSITIONS	ON	20°	CONE
2	1/8"NPT	NOZZLES	POSITIONS	ON	40°	CONE
2	1/8"NPT	NOZZLES	POSITIONS	ON	60°	CONE
2	1/8"NPT	NOZZLES	POSITIONS	ON	80°	CONE
2	1/8"NPT	NOZZLES	POSITIONS	ON	100°	CONE
2	1/8"NPT	NOZZLES	POSITIONS	ON	120°	CONE

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				
SCALA 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 6÷30 ±0.2 30÷120 ±0.3 120÷400 ±0.5 400÷1000 ±0.8 1000÷2000 ±1.2							
SGROSS. ∇ = 3/2	NOTE:						
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.

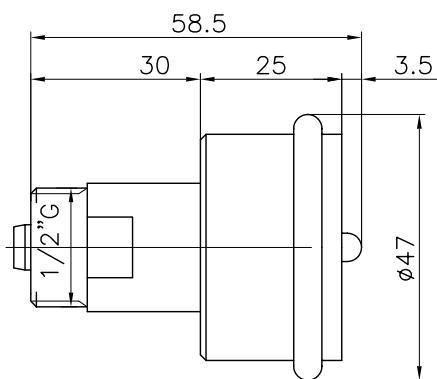
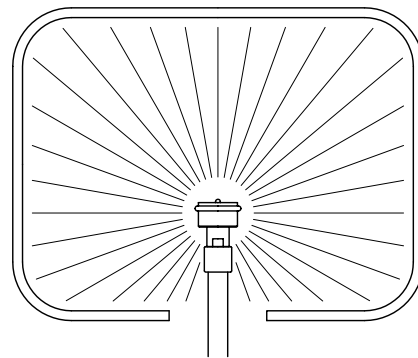
It's a selfspinning device for cleaning heads with spinning speed depending on: water flow, nozzle position, oil viscosity.



rOtojet

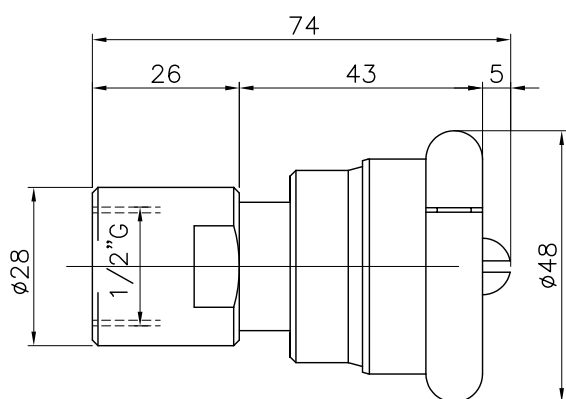
RT Series

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



RT0008

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



RT0225

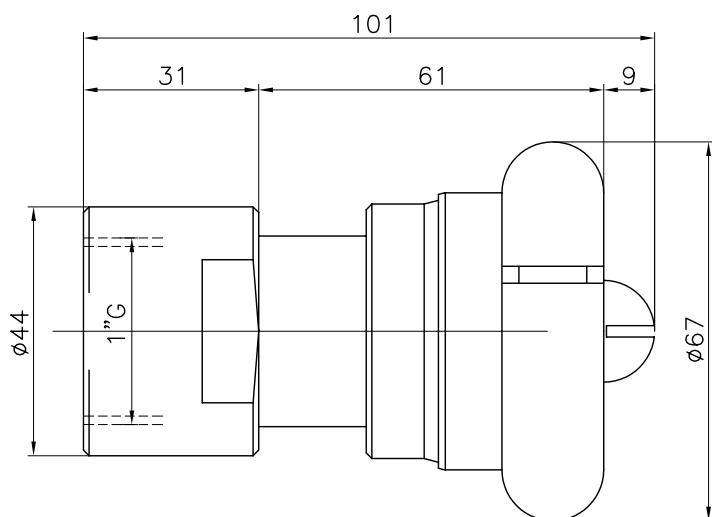
3x 0.8 mm SLOTS					
PRESSURE (bar)	2	4	6	8	10
FLOW (L/min)	15	21	27	32	35

RT0235

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

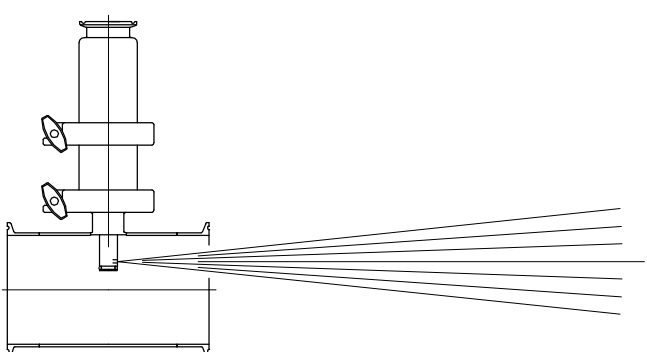
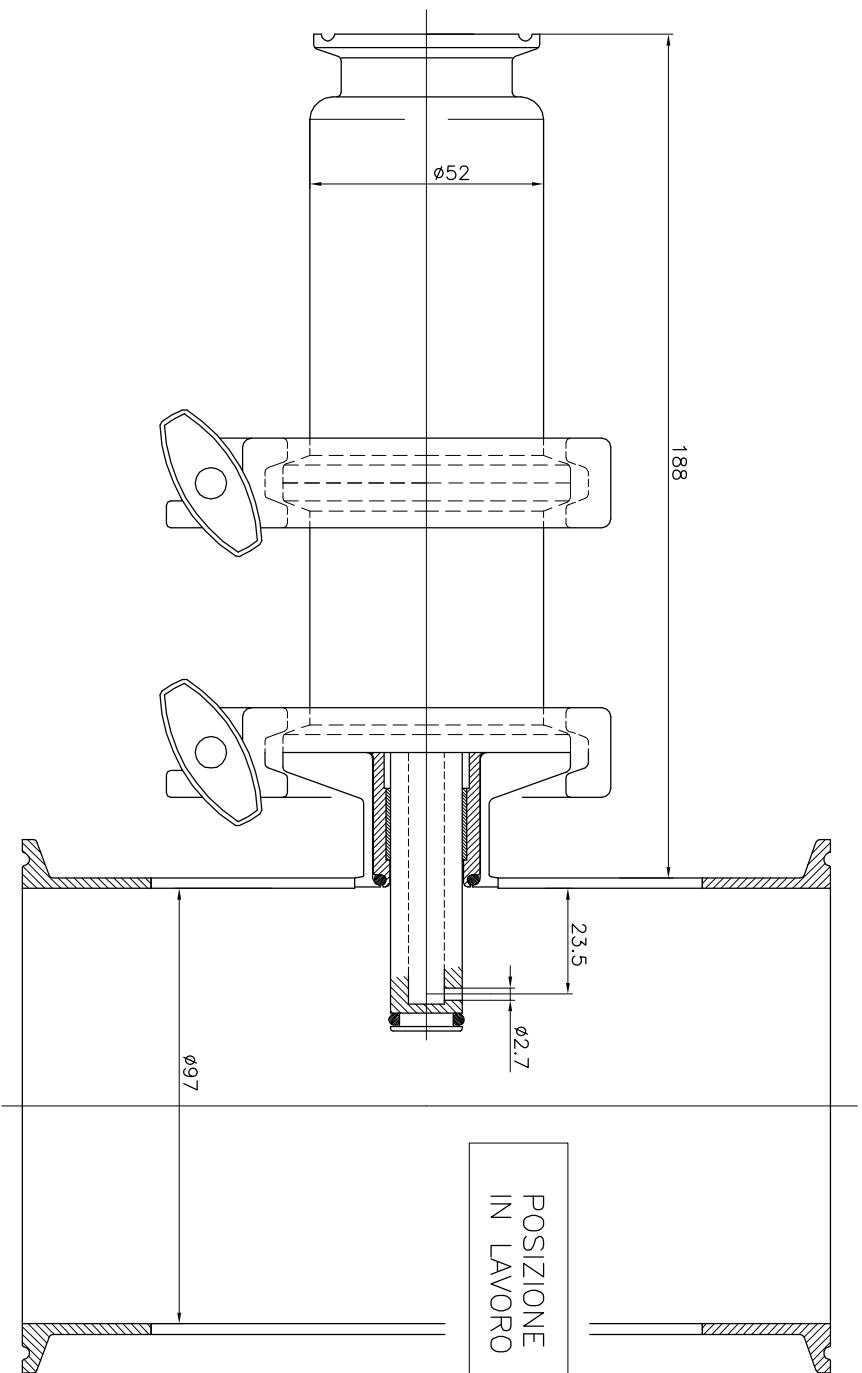
RT0255

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

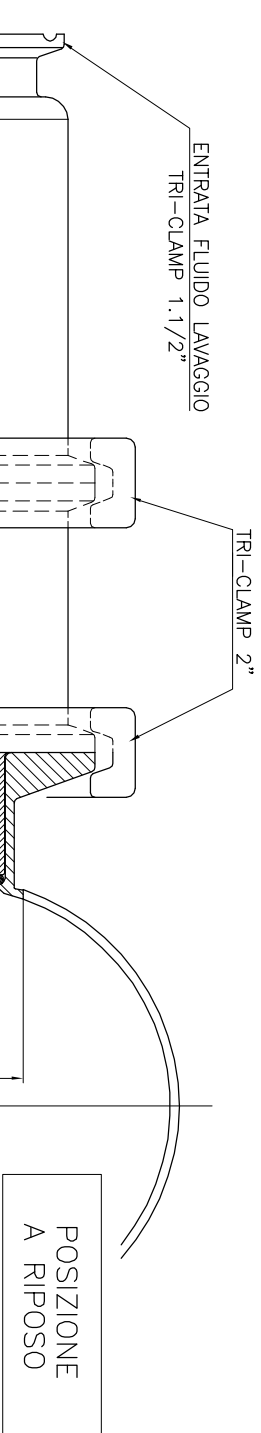


RT0355

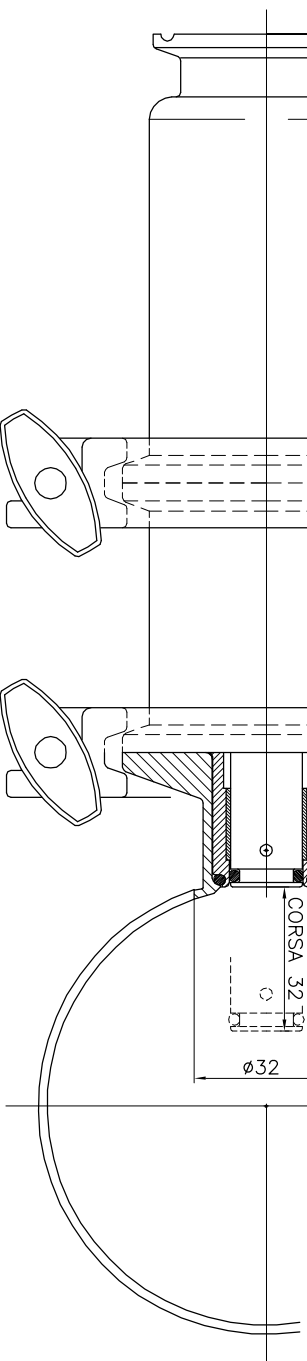
2x 3 mm + 1x 2 mm SLOTS						
PRESSURE (bar)	1	2	3	4	5	6
FLOW (L/min)	30	60	80	90	105	120




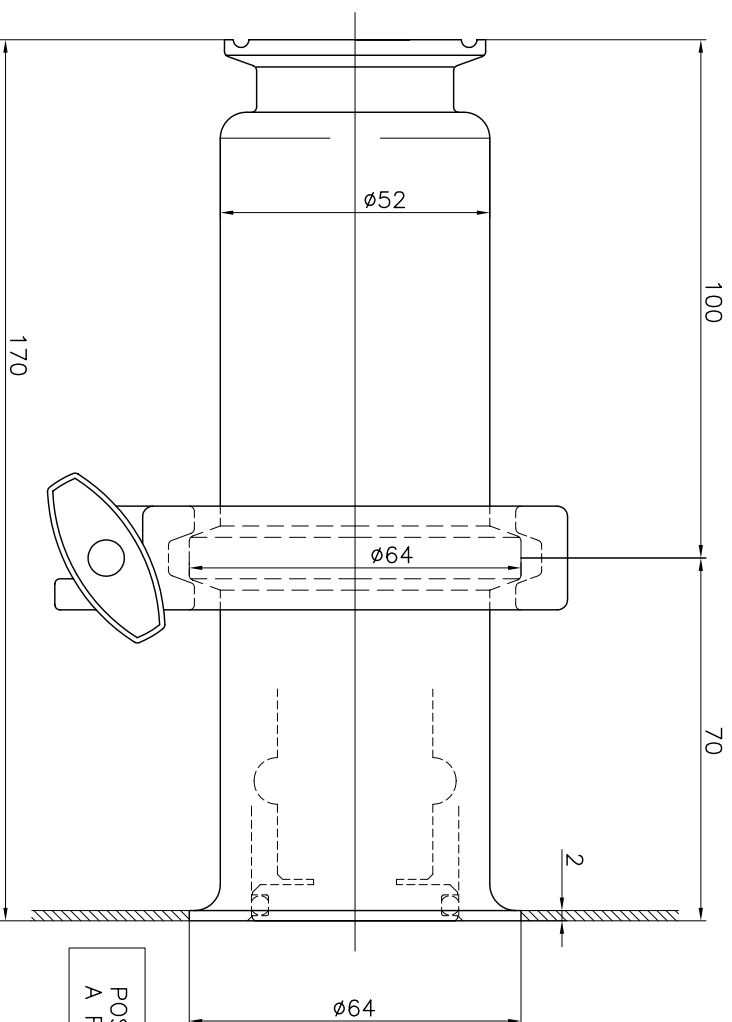
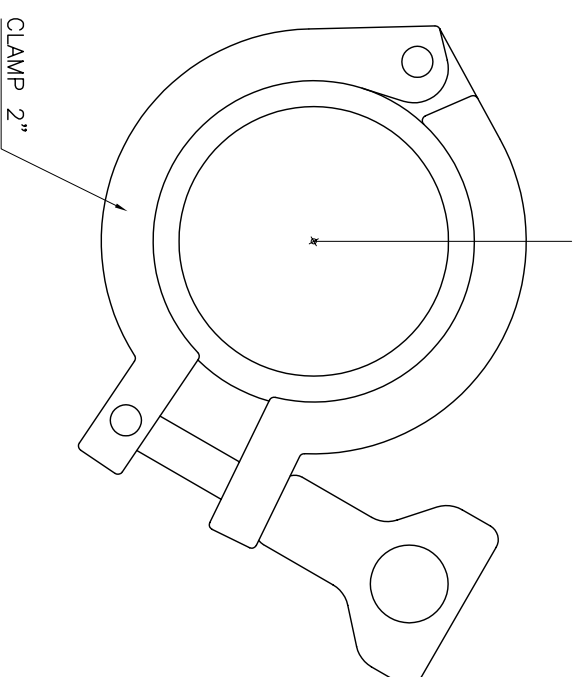
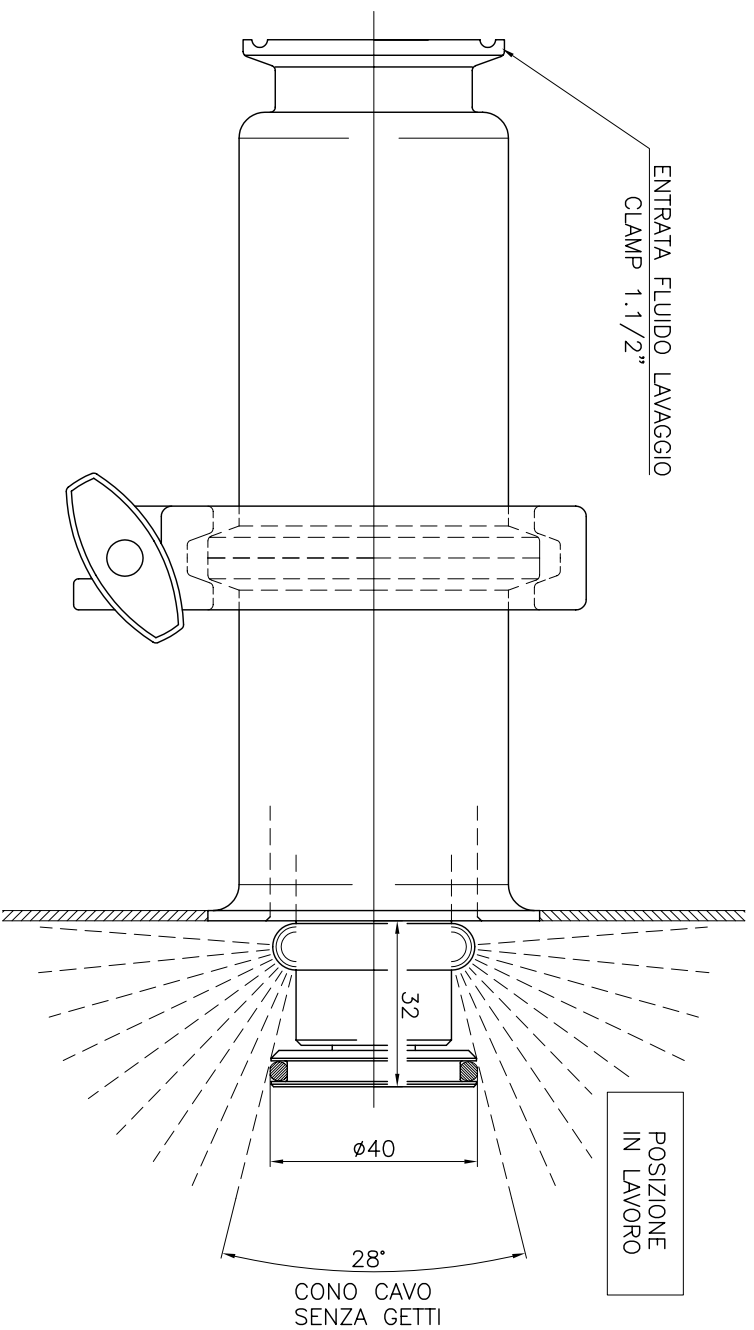
PRESSIONE BAR	PORTATA L/MIN.
1	4.5
2	6.4
3	7.8
4	9.0
5	10.1
6	11.1
7	11.9



PRESSIONE MINIMA PER TRASLAZIONE
COMPLETA 0.5 BAR



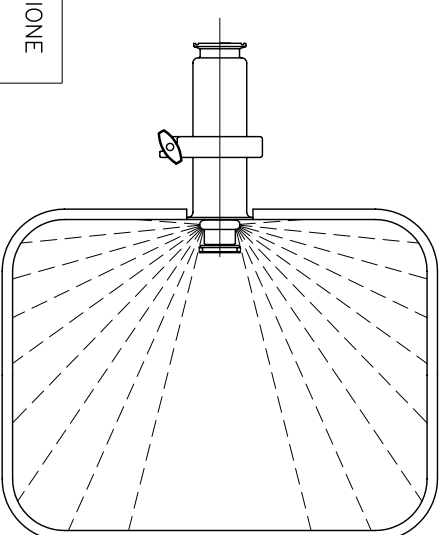
RUSSOSTA' (UNI 4600)	MODIFICA	1	2	3	4	5	 CLEANING HEADS MONTECCHIO E. (RE) - ITALY
GREZZO	FOGLIO	xxxx					
~ = ø/	DATA	xx.xx.xx					
SGROSS: 32/	TOLLERANZE GENERALI classe m UNI-EN 22768/1	0+6	6+30	30+120	120+400	400+1000	
▽ = 32/	NOTE: file: RT 120 AB cm	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2
FINITURA 16/	MATERIALE: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

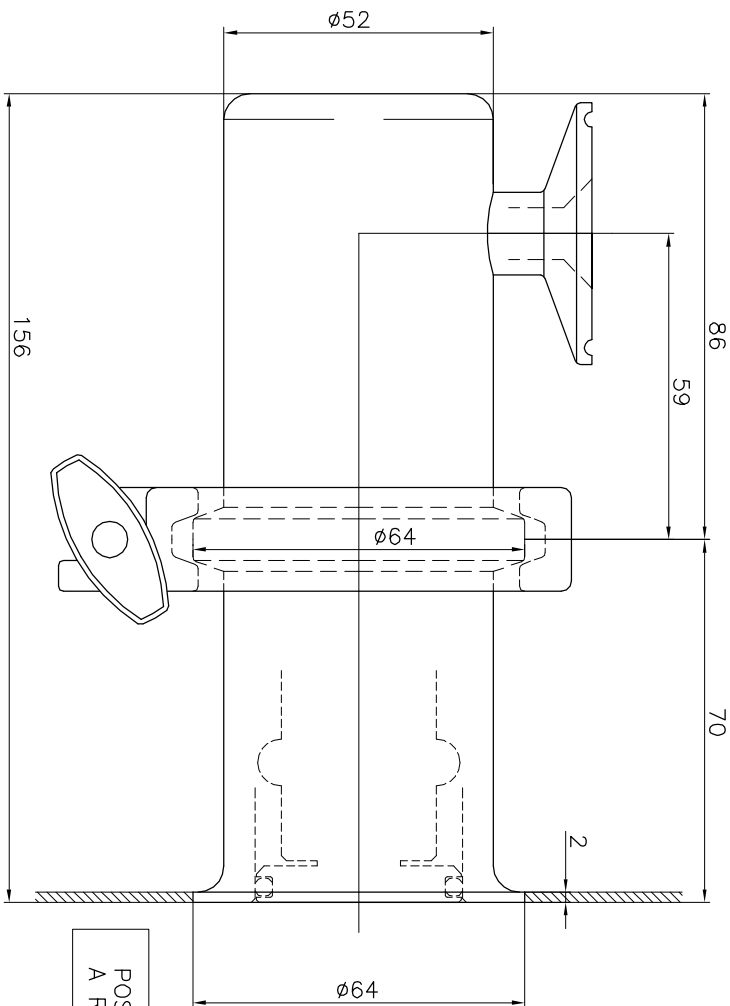
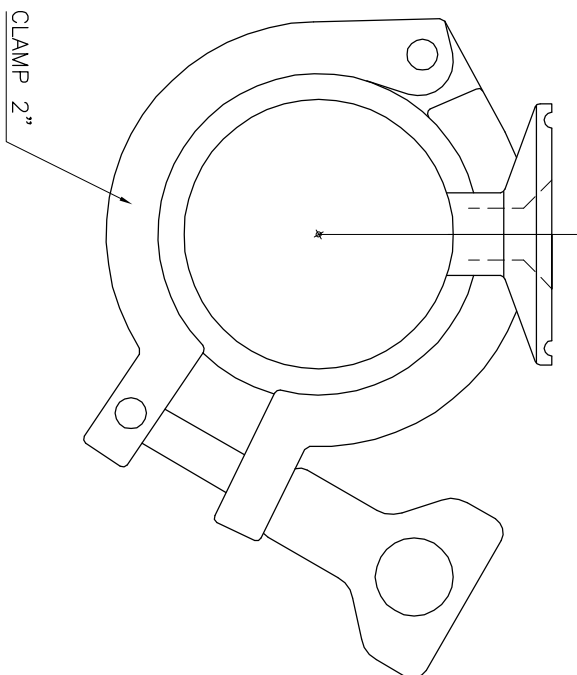
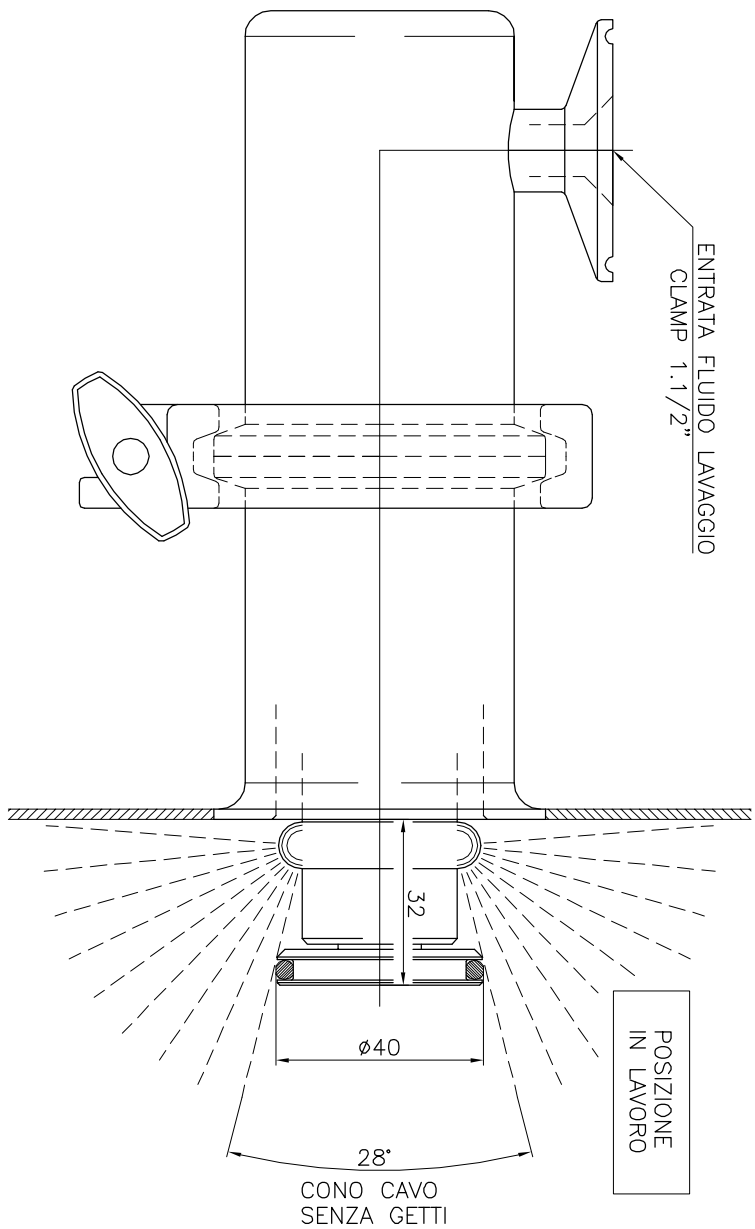
file: RT 111.AB.01 comm

SCALA 1:1

A3

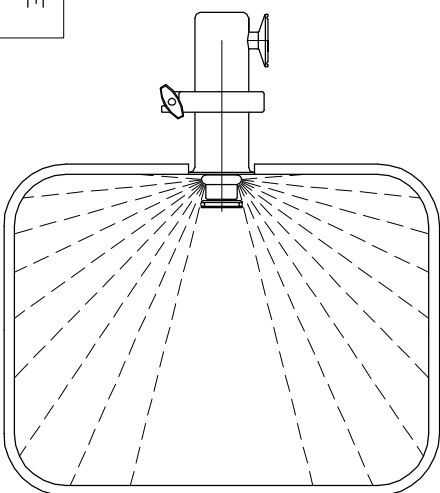
0

CODICE: RT 111.AB.01



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					
~ =	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					
▽ = 32/	NOTE:					
FINITURA 1.6/	MATERIALE: AISI 316					
▽▽ = 0.8/						
RETTIFICA 0.8/						
▽▽▽ = 0.4/						
DESCRIZIONE: AUTOROTANTE A SCOMPARSA TRASLAZIONE FLUIDO LAVAGGIO						
CODICE: RT 111.AA.01						



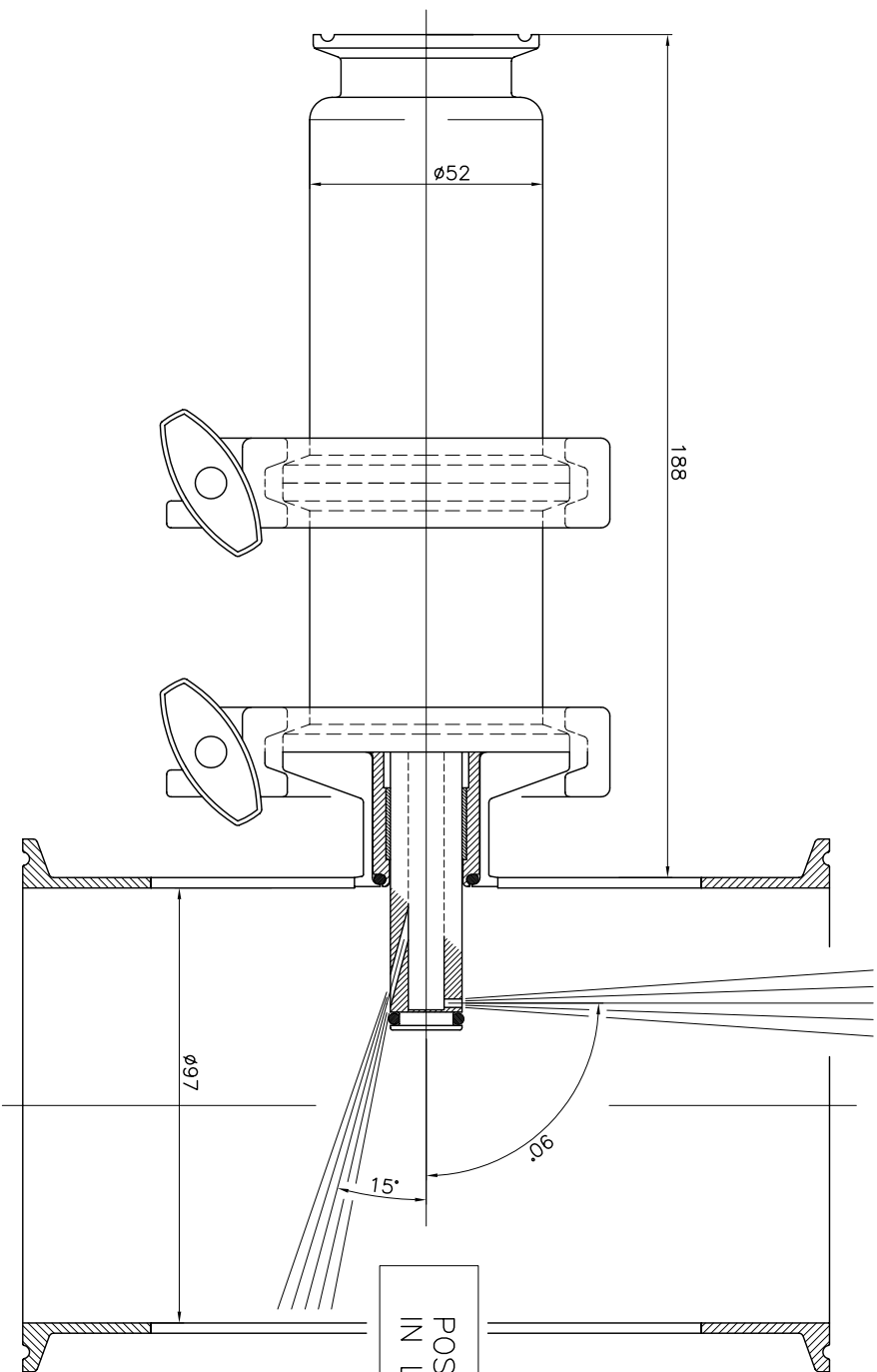
MONTECCHIO E. (RE) - ITALY

DISIGN.: CR ICONTR.: DM

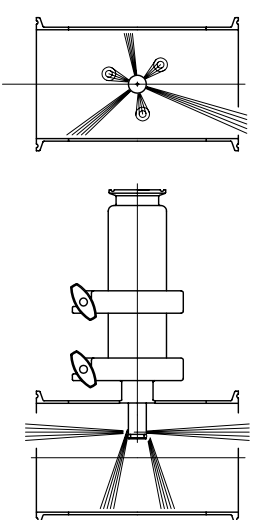
DATA: 27.10.06 MOD.

SCALA 1:1 A3 0

file: RT 111.AA.01 comm

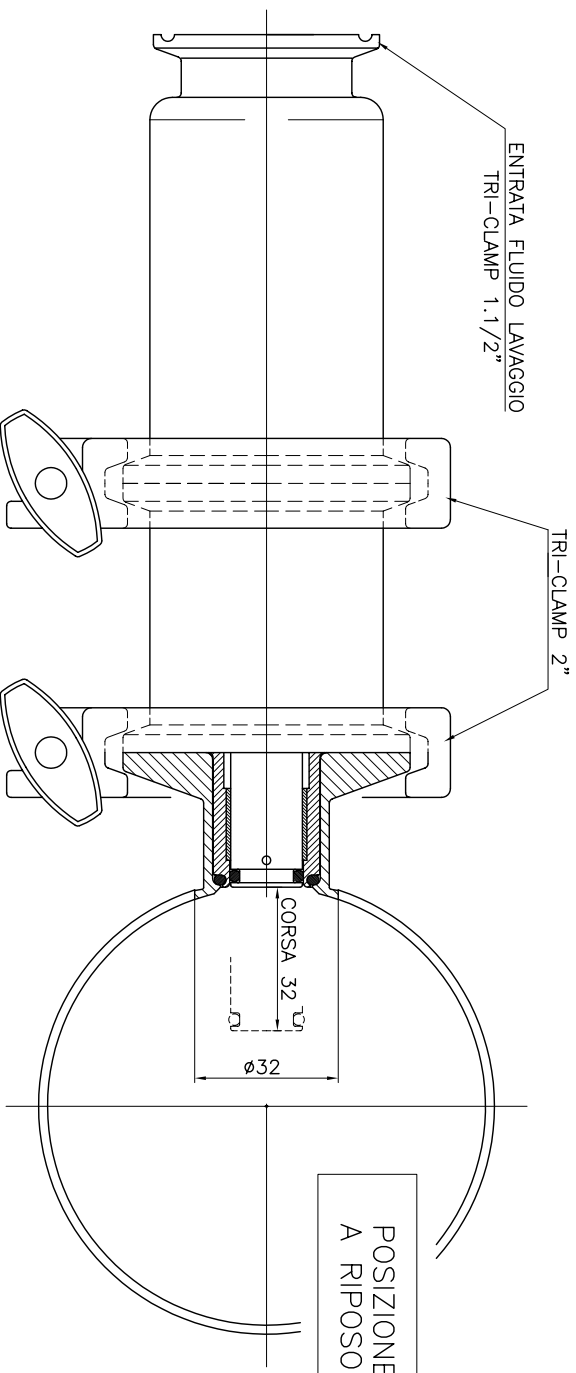



N° 3 UGELLI Ø 1.9 CON ANGOLO ASSIALE 15°
N° 3 UGELLI Ø 1.9 CON ANGOLO ASSIALE 90°
UGELLI RADIALMENTE ALTERNATI ED EQUIDISTANTI



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 DISEGN.: CR CONTR.: DM DATA: 11.12.09 MOD.
GREZZO	FOGLIO	xxxx				
~ = Ø	DATA	xx.xx.xx				
SGROSS: 32/	TOLLERANZE GENERALI classe m UNI-EN 22768/1					
▽ = ∇	±0.1 ±0.2 ±0.3 ±0.5 ±0.8 ±1.2					
FINITURA 16/	NOTE: file: RT 120 AB cm					
∇∇ = ∇	MATERIALE: AISI 316					
RETIFICA 08/	DESCRIZIONE: UGELLO A SCOMPARSA CON TRASLAZIONE CON FLUIDO LAVAGGIO					
∇∇∇ = ∇	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



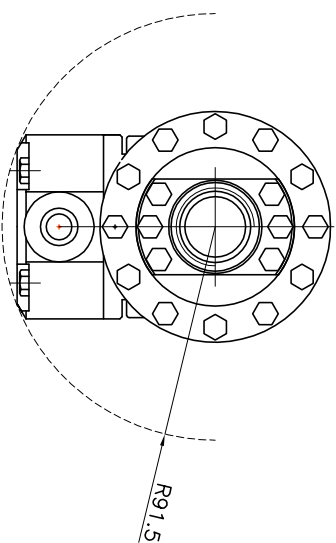
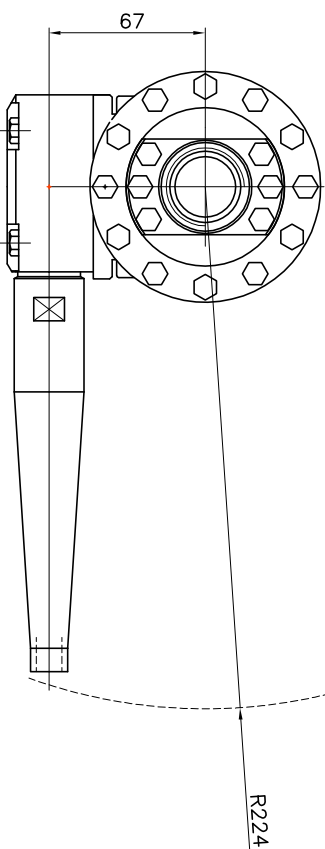
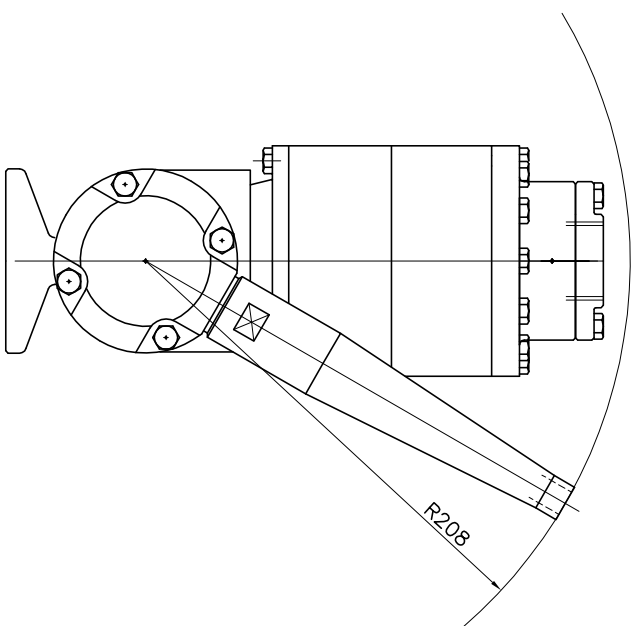
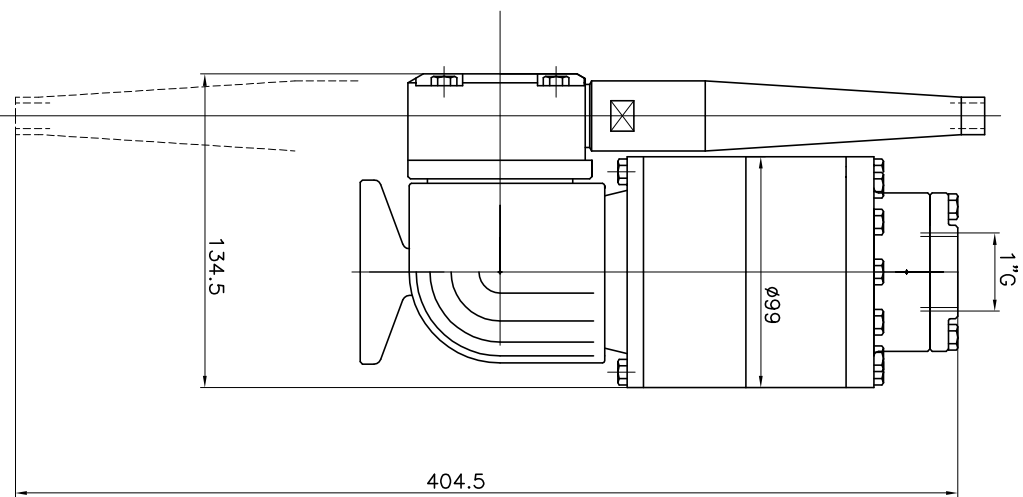
AQUAMOTOR

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



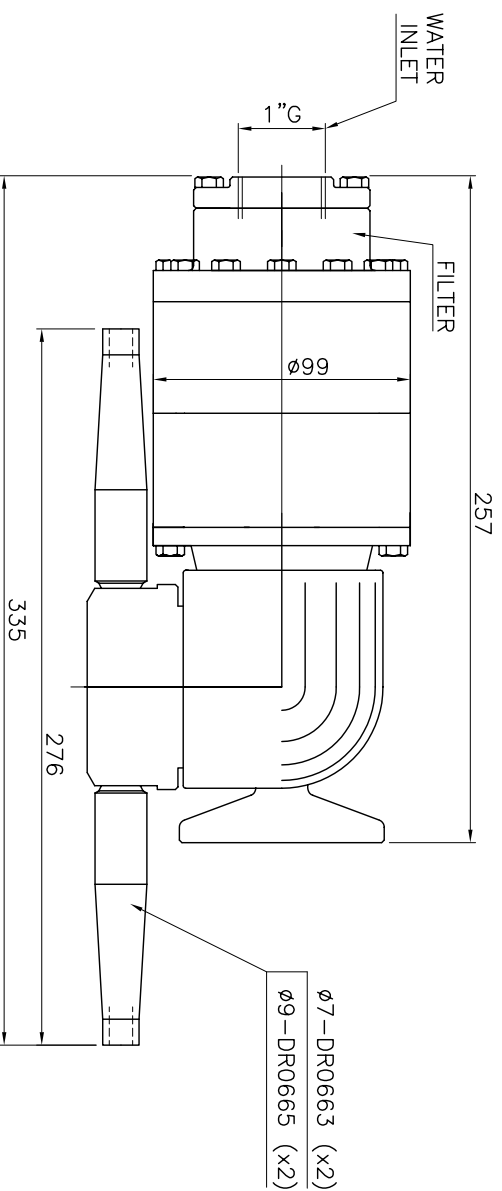
TECHNICAL DATA

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

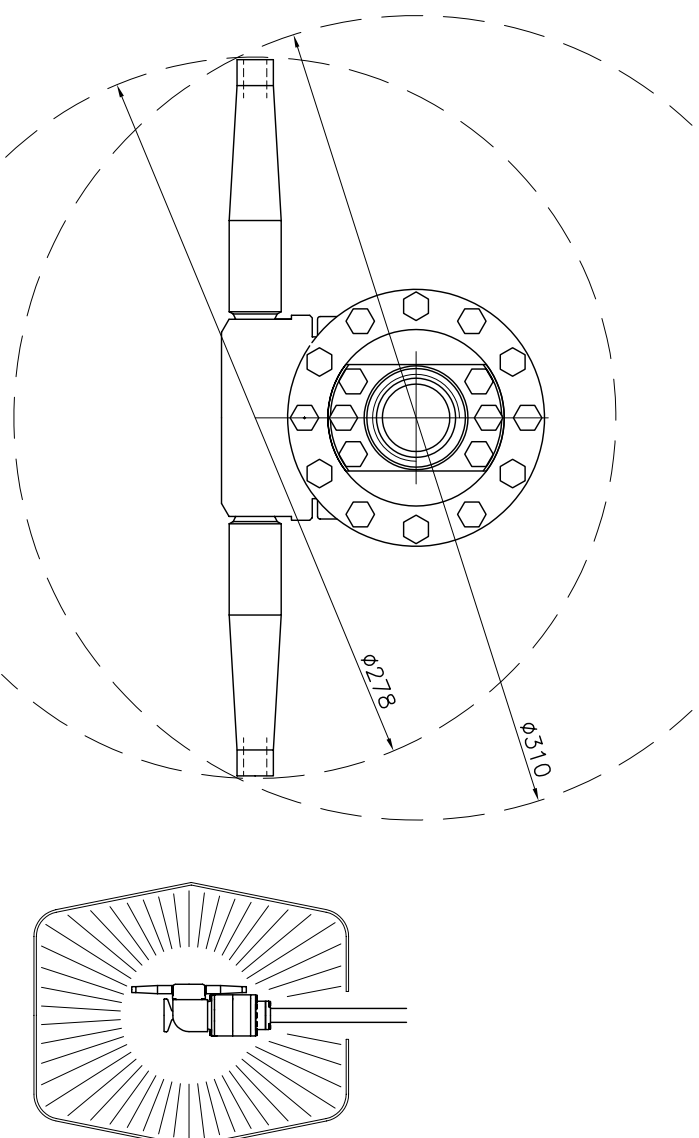
RUGOSITA' (UNI 4600)	MODIFICA 1	2	3	4	5
FOGLIO XXXX	DATA XX.XX.XX				
GREZZO	TOLLERANZE GENERALI classe m UNI-EN 22768/1				
~ = 0.6	6+30 30+120120+400400+10001000+2000				
SGROSS. 3/2	± 0.1 ± 0.2 ± 0.3 ± 0.5 ± 0.8 ± 1.2				
VERSIONE 04 CON FILTRO					
FINITURA 1.6/	MATERIALE:				
RETIFICA 0.8/					
VVV = 0.8/	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

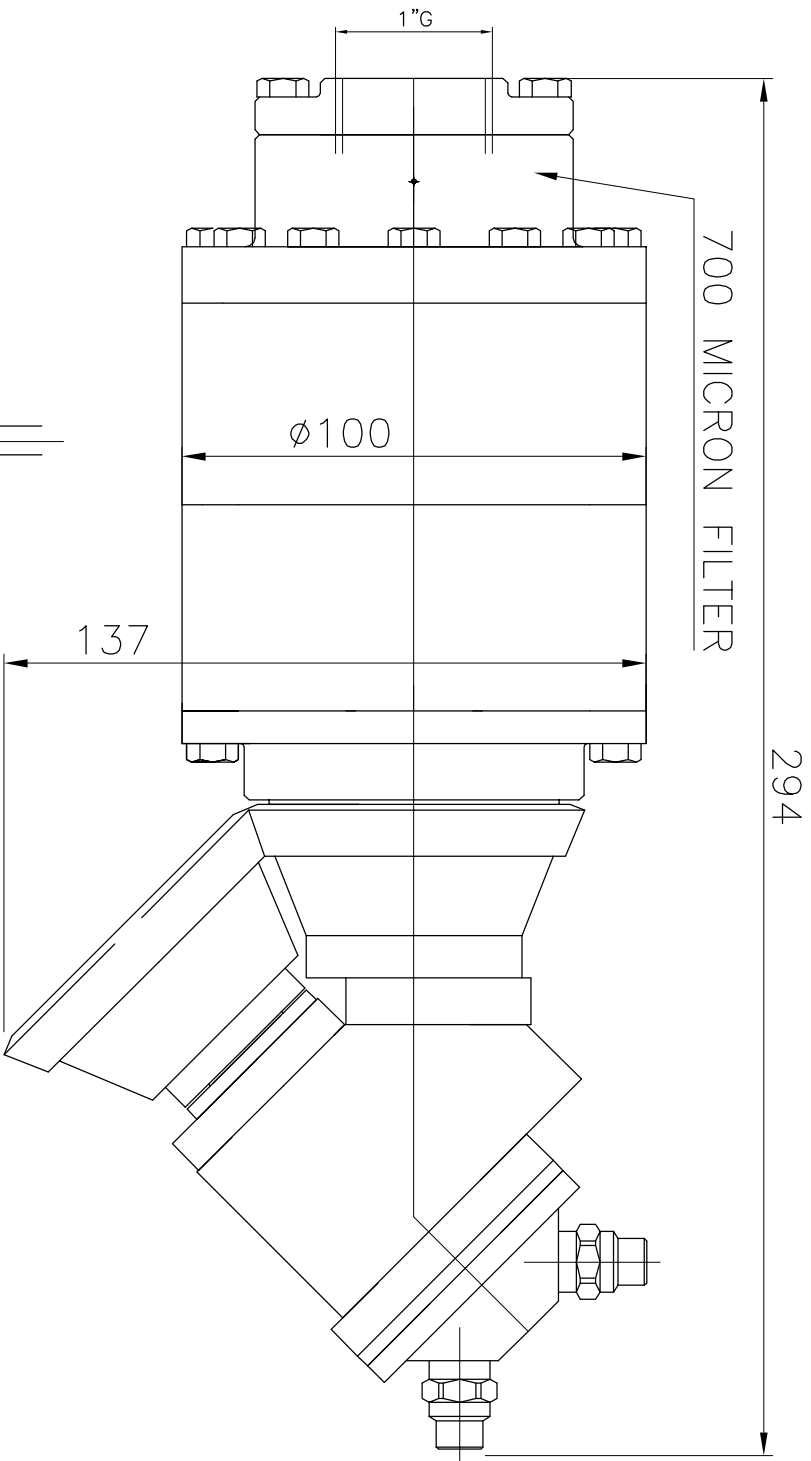


RUGOSITA' (UNI 4600)	MODIFICA	1	2	3	4	5
FOGLIO	XXXX					
DATA	XX XX XX					
GREZZO	TOLLERANZE GENERALI classe m UNI-EN 22768/1					
~ = 0/	0+6 6+30 30+120 120+400 400+1000 1000+2000					
SGROSS. 3/2/	±0.1 ±0.2 ±0.3 ±0.5 ±0.8 ±1.2					
Δ = 3/2/	NOTE:					
FINITURA 1.6/	DESCRIZIONE: RW 220 A					
ΔΔ =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



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

SCALA 1:3 A3 0
CODICE: RW 220 A



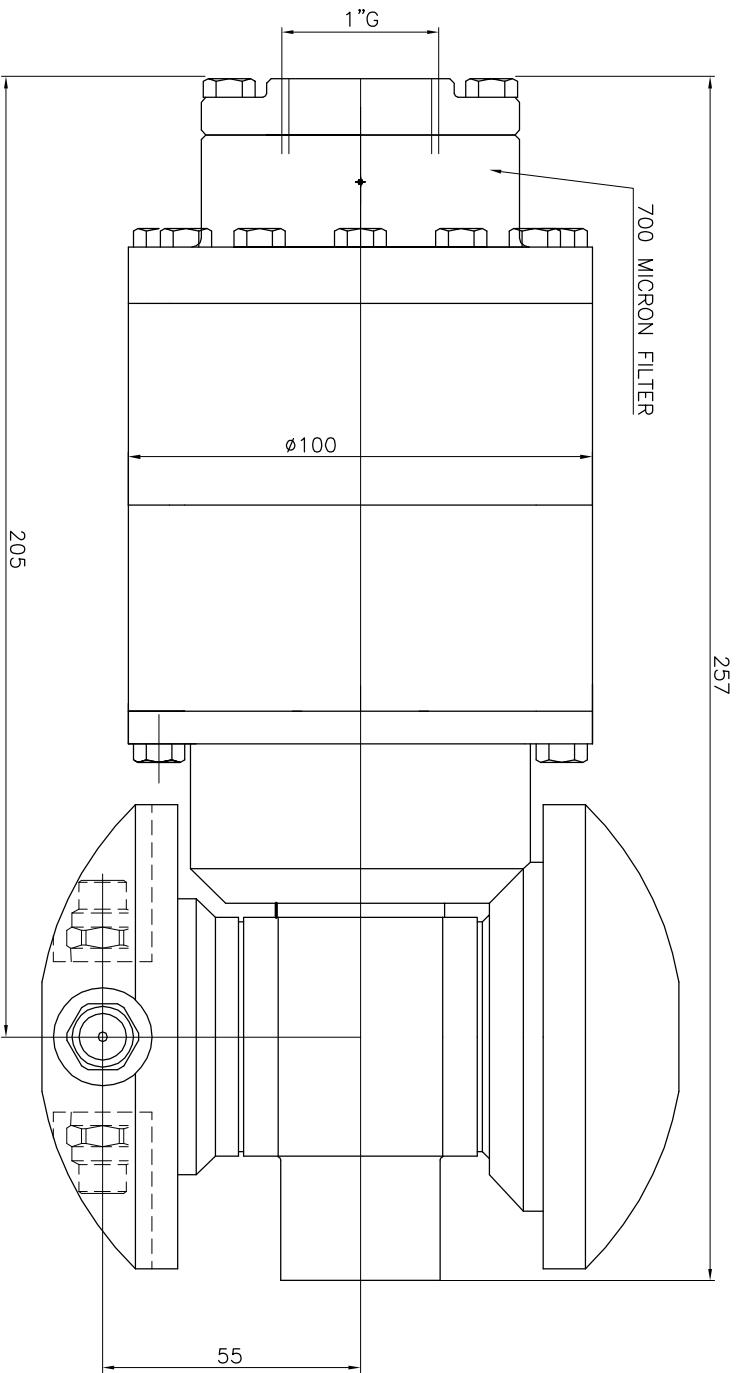
APERTURA DIFFUSORE DIFFUSER OPENING			
3	3/6	3/6/9	3/6/9/12
60	12	8	
80	16	12	9
100		15	11
120		18	13
140			16
160			18
180			14
200			16
PORTATA FLOW L/MIN			
VELOCITA' ROTAZIONE GIR/MIN SPINNING SPEED RPM			
			16

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	2 - 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+400	400+1000	1000+2000	
SGROSS.	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2
FINITURA	Δ	Δ	Δ	Δ	Δ	Δ
RETTIFICA	Δ	Δ	Δ	Δ	Δ	Δ
VELOCITA' ROTAZIONE	1:1	A3	O			
DESCRIZIONE: INSTALLATION DRAWING RW 200AW	CODICE:	RW	200AW			

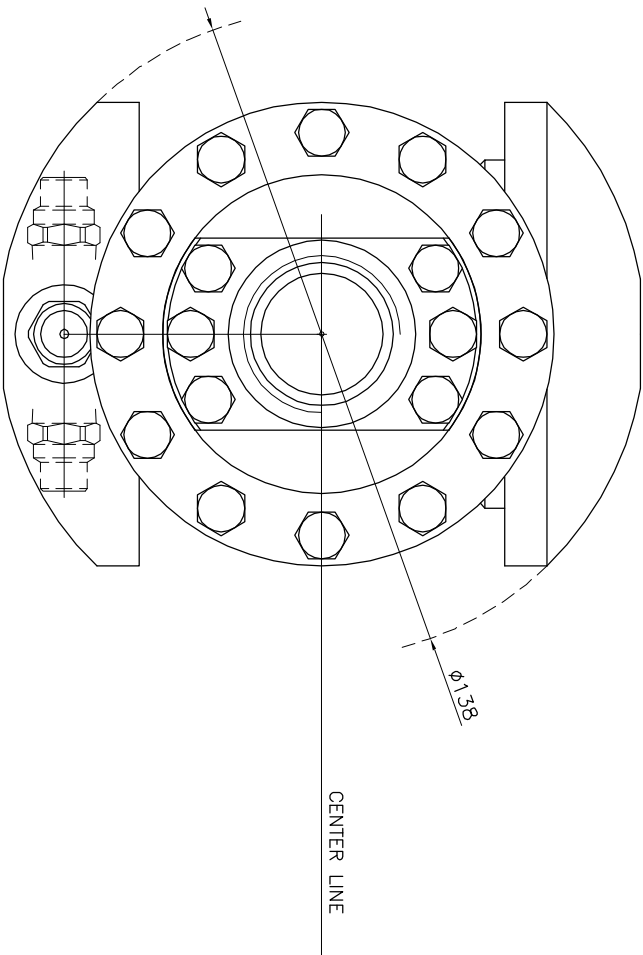


APERTURA DIFFUSORE DIFFUSER OPENING			
3	3/6	3/6/9	3/6/9/12
60	12	8	
80	16	12	9
100		15	11
120		18	13
140			16
160			18
180			14
200			16
PORTATA FLOW L/MIN			
VELOCITA' ROTAZIONE GIR/MIN SPINNING SPEED RPM			
			16

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

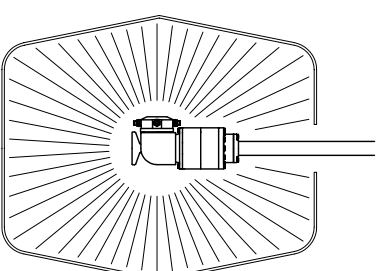
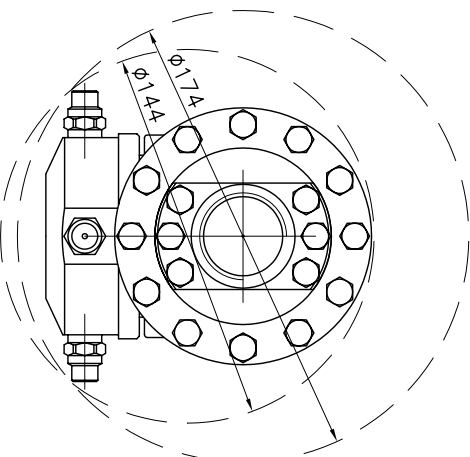
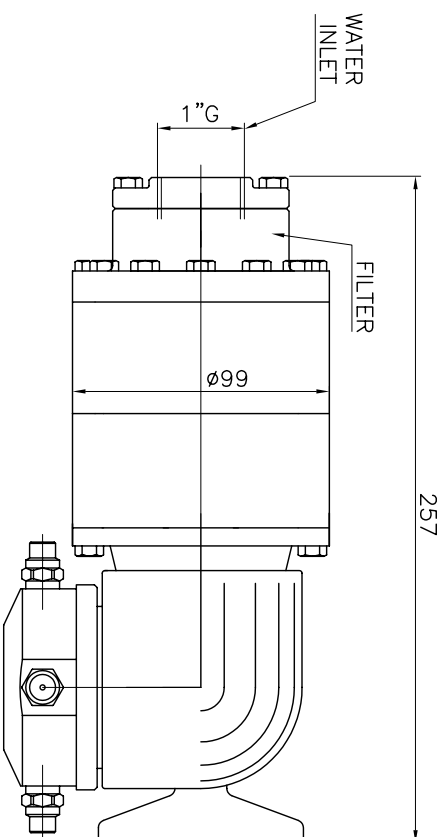



RUGOSITA' (UNI 4600)	MODIFICA	1	2	3	4	5
GREZZO	FOGLIO	XXXX				
DATA	XX.XX.XX					
TOLLERANZE GENERALI close m. UNI-EN 22768/1	0+6	6+30	30+120	120+400	400+1000	1000+2000
SGROSS.	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2
FINITURA	DATA	12.10.07				
RETTIFICA	MOD.					
DESCRIZIONE: INSTALLATION DRAWING RW 200AU	CODICE: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

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

TECHNICAL DATA

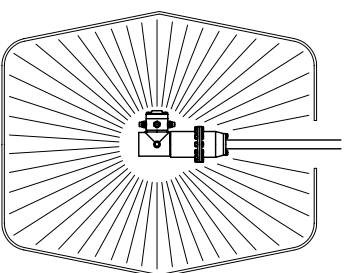
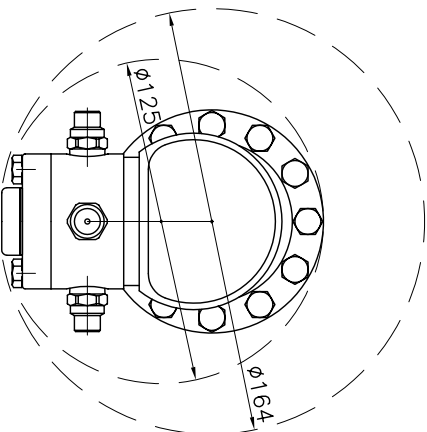
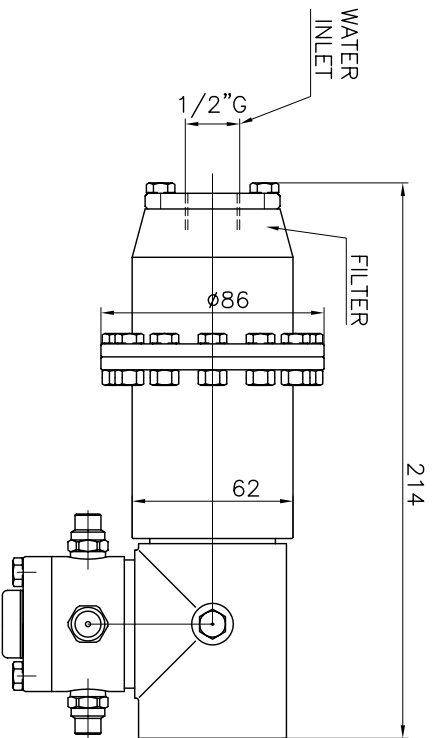
O.RING	NBR – EPDM – VITON
SLIPPER	PTFE+CARBON FIBRE
BUSHING	ALSI 316
FILTER	700 MICRON
NOZZLES POSITIONS	2 – 4
NOZZLES THREAD	1/4"NPT
TESTING NOZZLES	0 x 0000
OPERATING FLOW RANGE	60 – 200 L/min
TESTING FLOW	000 L/min
OPERATING PRESSURE RANGE	5 – 200 bar
TESTING PRESSURE	000 bar
CENTER LINE MIN PASS THROUGH HOLE	174 mm
MANUAL MIN PASS THROUGH HOLE	144 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
GREZZO	FOLIO	XXXX				
$\sim = \varnothing$	DATA	XX.XX.XX				
SGROSS: $\sim = \varnothing$	TOLLERANZA	GENERALI classe m UNI-EN 22768/1				
$\nabla = \sqrt[3]{\quad}$	$\pm 0,6$	$\pm 0,2$	$\pm 0,3$	$\pm 0,5$	$\pm 0,8$	$\pm 1,2$
	NOTE:					
FINITURA $\nabla \nabla = \sqrt[1,6]{\quad}$	DESCRIZIONE: RW 200 A					
RETTIFICA $\nabla \nabla \nabla = \sqrt[0,8]{\quad}$	APPLICATION DRAWING					
	<div> CLEANING HEADS MONTECCHIO E. (RE) - ITALY</div>					
	DESIGN: CR	CONTR: DN				
	DATA: 06.10.08	MOD:				
	SCALE	1:3	A3	O		
	CODICE:	RW 200 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	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



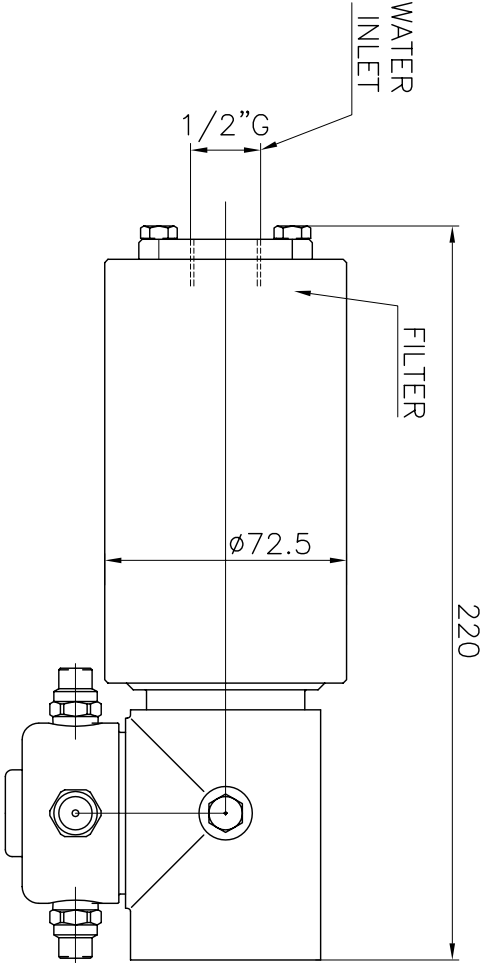
RUGOSITA' (UNI 4600)	MODIFICA	1	2	3	4	5
FOGLIO	XXXX					
DATA	XX.XX.XX					
GREZZO	TOLLERANZE GENERALI classe m UNI-EN 22768/1					
~ = Ø	0÷6	6÷30	30÷120	120÷400	400÷1000	1000÷2000
SGROSS.	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2
∇ = 3/2	NOTE:					
FINITURA 1.6/	DESCRIZIONE: RW 186 A					
∇∇ = 1/	APPLICATION DRAWING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



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

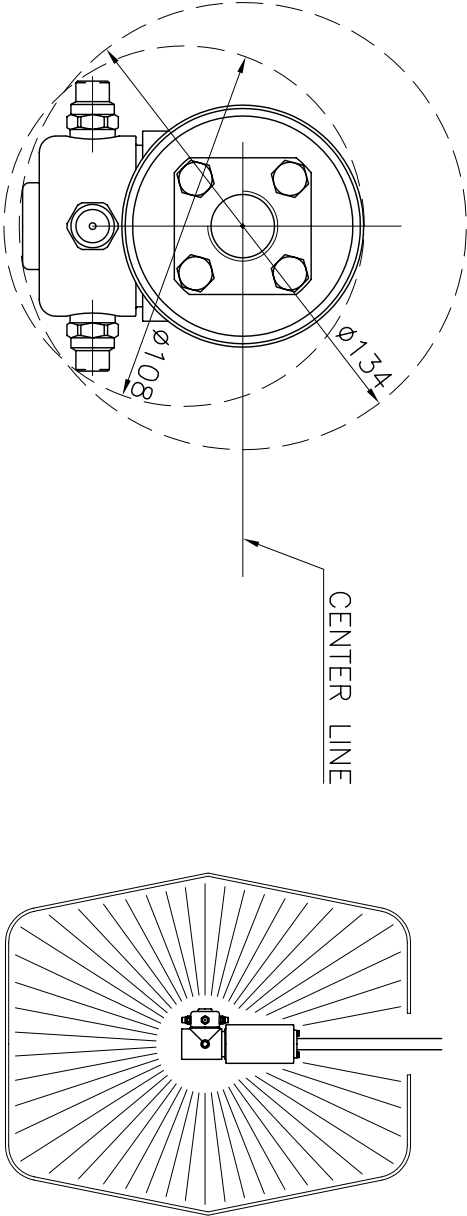
SCALA 1:3 A3 0
 CODICE: RW 186 A


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

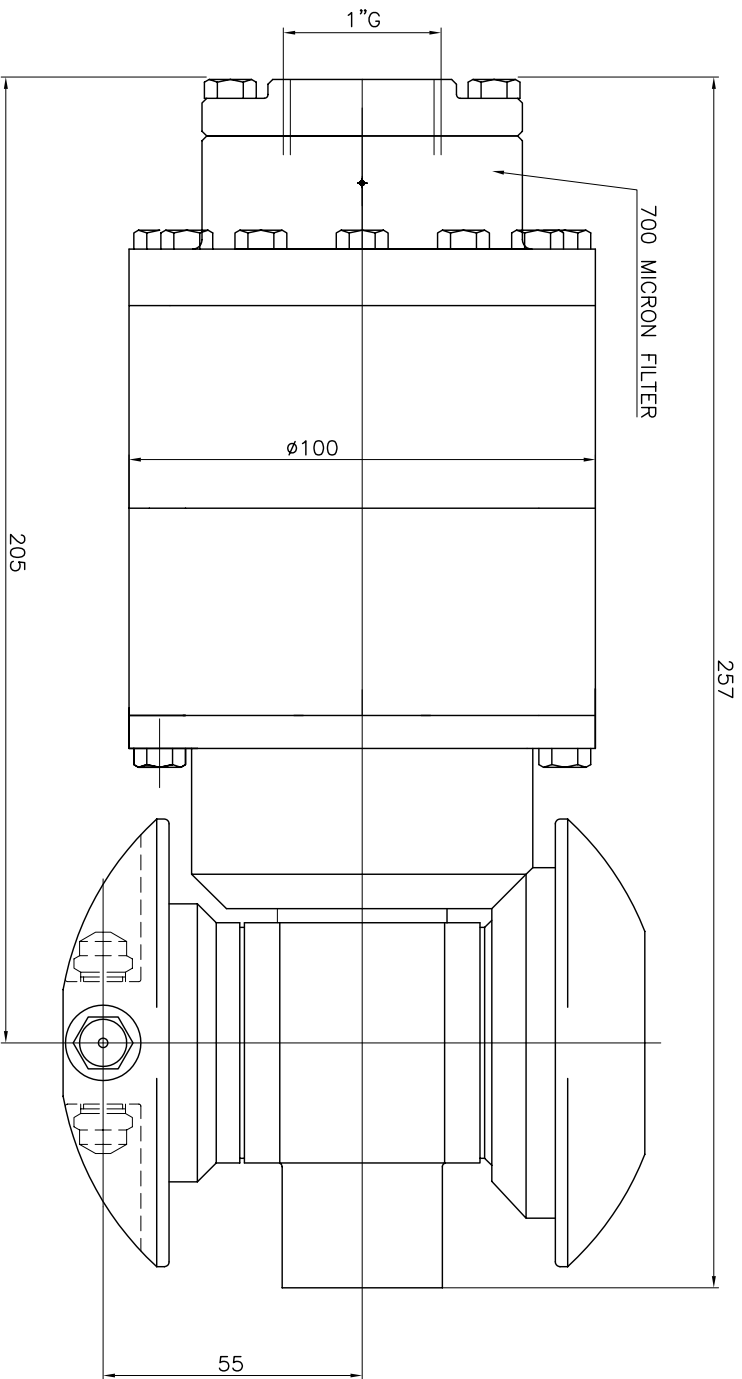


TECHNICAL DATA

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. 3/2 ∇ = √	± 0.1	± 0.2	± 0.3	± 0.5	± 0.8	± 1.2
NOTE:						
FINITURA 1.6/ ∇∇ = √	DESCRIZIONE: RW 190A APPLICATION DRAWING					
RETIFICA 0.8/ ∇∇∇ = √						
<div> CLEANING HEADS MONTECCHIO E. (RE) - ITALY</div>						
CODICE:		RW 190A				
SCALE		1:2		A4	O	
DISIGN.: CR		CONTR.: DM		MOD.		
DATA: 15.02.12						



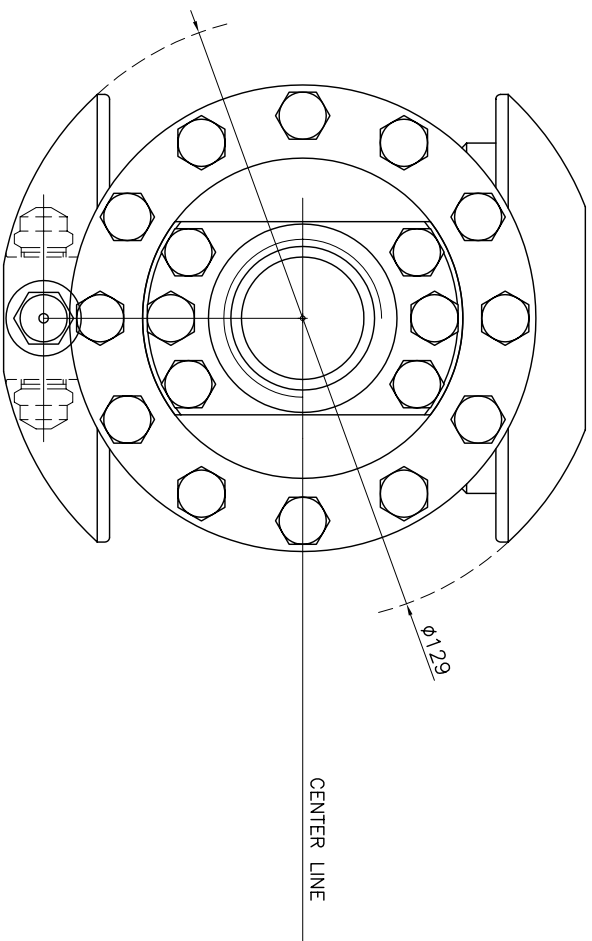
POSIZIONE DIFFUSORE DIFFUSER POSITION				
1	2	3	4	
15	20	9		
30		22	11	
45			18	11
60			24	15

PORTATA FLOW L/MIN	VELOCITA' ROTAZIONE GIRI/MIN SPINNING SPEED RPM
15	20
30	9
45	22
60	11

PRESSIONE PRESSURE RANGE	5#200 BAR
PORTATA FLOW	15#60 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	2 - 4
FILETTO UGELLI NOZZLES THREAD	1/8"G SPECIAL



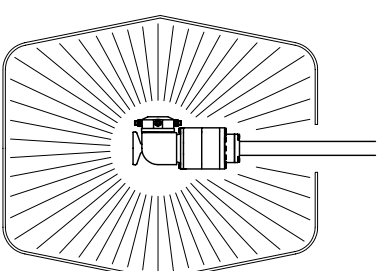
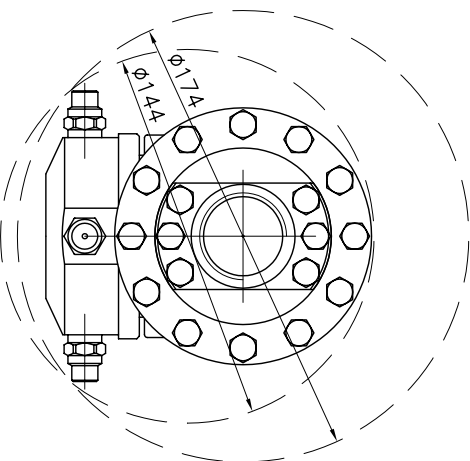
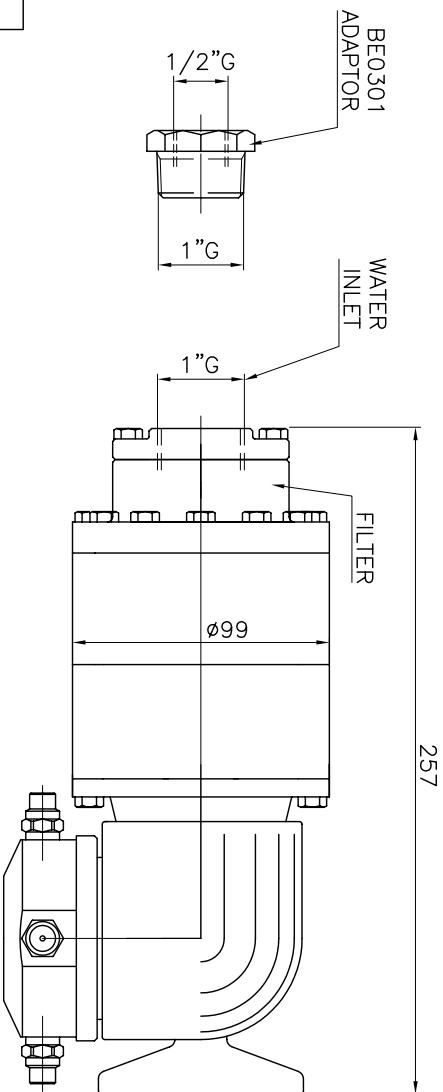
RUGOSITA' (UNI 4600)	MODIFICA FOGLIO	1	2	3	4	5
GREZZO DATA	XXXX XX.XX.XX					
TOLLERANZE GENERALI classe m UNI-EN 22768/1 0+6 -6+30 30+120 120+400 400+1000 1000+2000						
SGROSS. ±0.1 ±0.2 ±0.3 ±0.5 ±0.8 ±1.2						
FINITURA VV = 1/8"						
RETTIFICA VVV = 0.8"						
DESCRIZIONE: INSTALLATION DRAWING RW 086AU 130 mm ON CENTER LINE VERSION						
GOODE: RW 086AU						

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/						

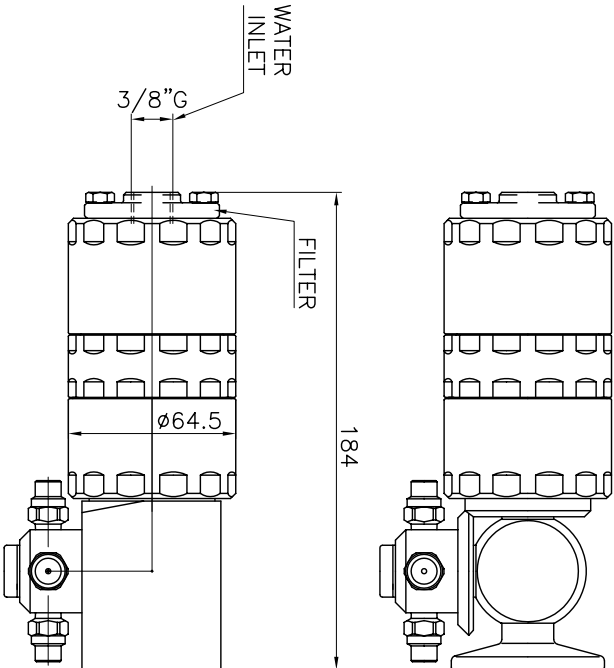


CLEANING HEADS
MONTECCHIO E. (RE) - ITALY
DISIGN.: CR I CONTR.: DM
DATA: 06.10.08 MOD.

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

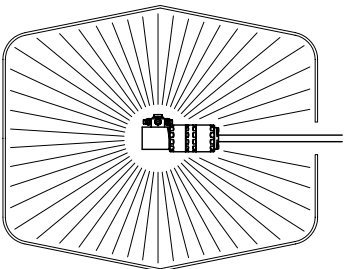
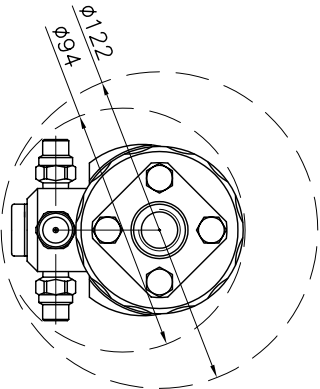


WITHOUT PROTECTION
SELF CLEANING

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					
~ = ∅	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 030 A					
∇∇ = 1/	APPLICATION DRAWING					
RETIFICA 0.8/						
∇∇∇ = 0.8/						

CLEANING HEADS

MONTECCHIO E. (RE) – ITALY

DISIGN.: CR ICONTR.: DM

DATA: 06.10.08

MOD.

SCALE

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



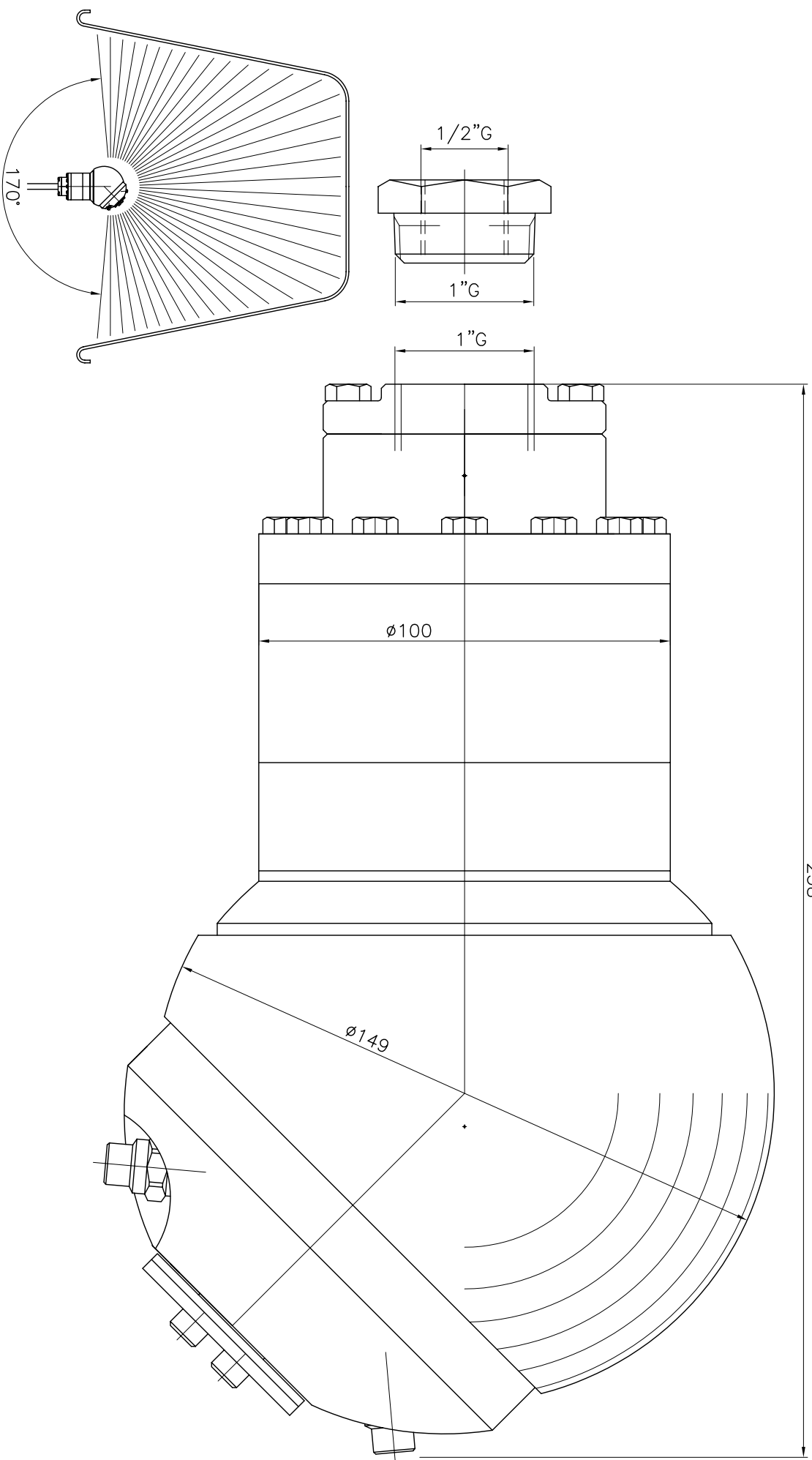
AQUAMOTOR

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.



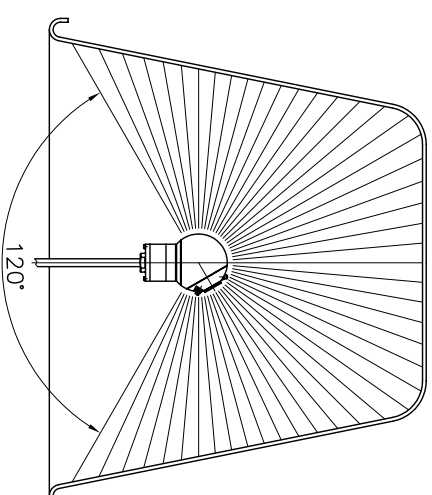
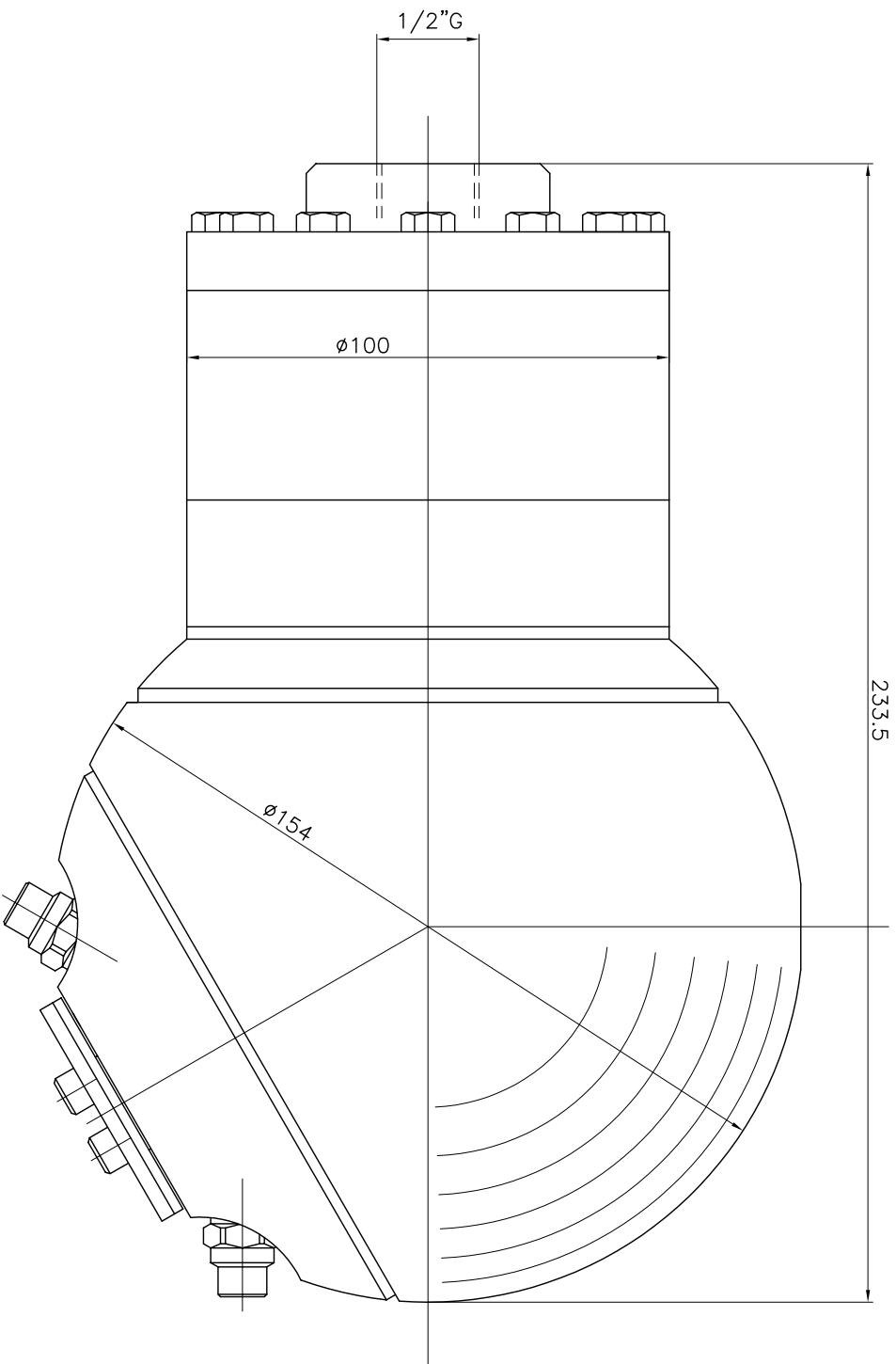
rOtojet



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

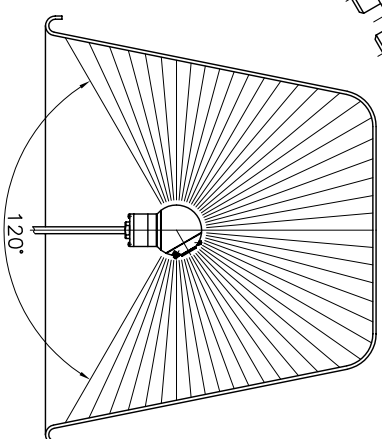
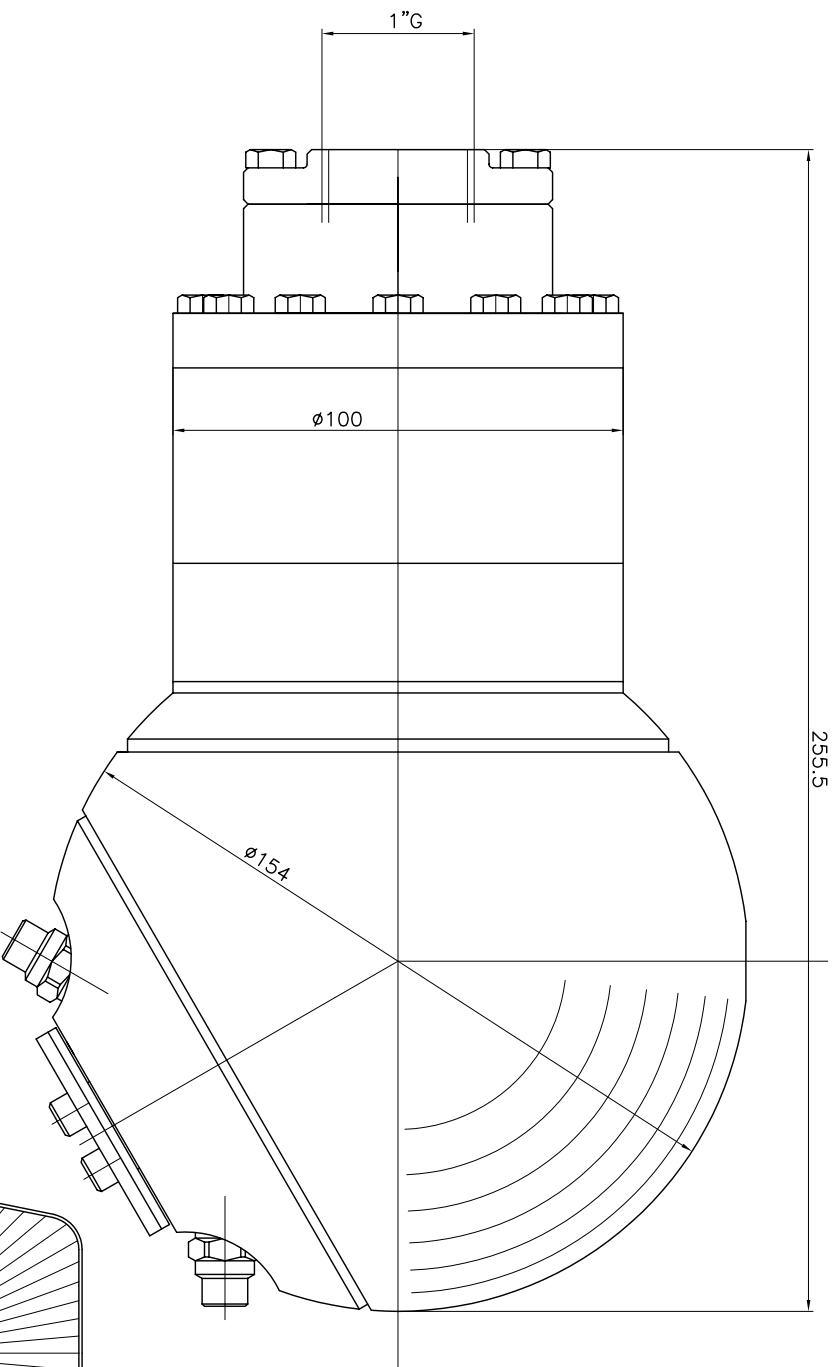
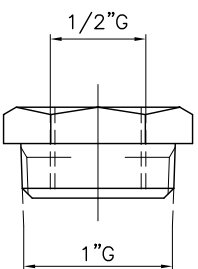
RUGOSITÀ' (UNI 4600)	MODIFICA				
	1	2	3	4	5
GREZZO	FOGLIO				
	xxxx				
~ = ∅	DATA				
	xx.xx.xx				
SGROSS. 32/	TOLLERANZE GENERALI classe m UNI-EN 22768/1				
	0÷6	6÷30	30÷120	120÷400	400÷1000
V = √	1000÷2000				
	±0.1	±0.2	±0.3	±0.5	±0.8
FINITURA	±1.2				
	NOTE: VERSIONE 05				
VV = √	MATERIALE: ALLUMINIO-INOX				
RETTIFICA 0,8/	DESCRIZIONE: AQUAMOTOR SECTOR SW 170				
VVV = √	PER LAVACASSONETTI 170°				
CODICE:	SW170				
	SCALA				
1:1	A4				
	O				
DATA:	26.11.07				
	MOD.				
DISIGN.:	CR				
	CONTR.:				
DM	MONTECCHIO E. (RE) - ITALY				
	CLEANING HEADS				
Bonomi	Bonomi				
	CLEANING HEADS				



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

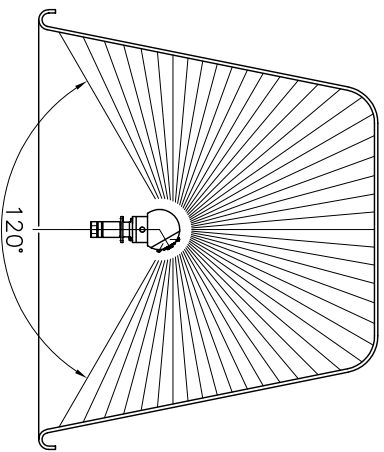
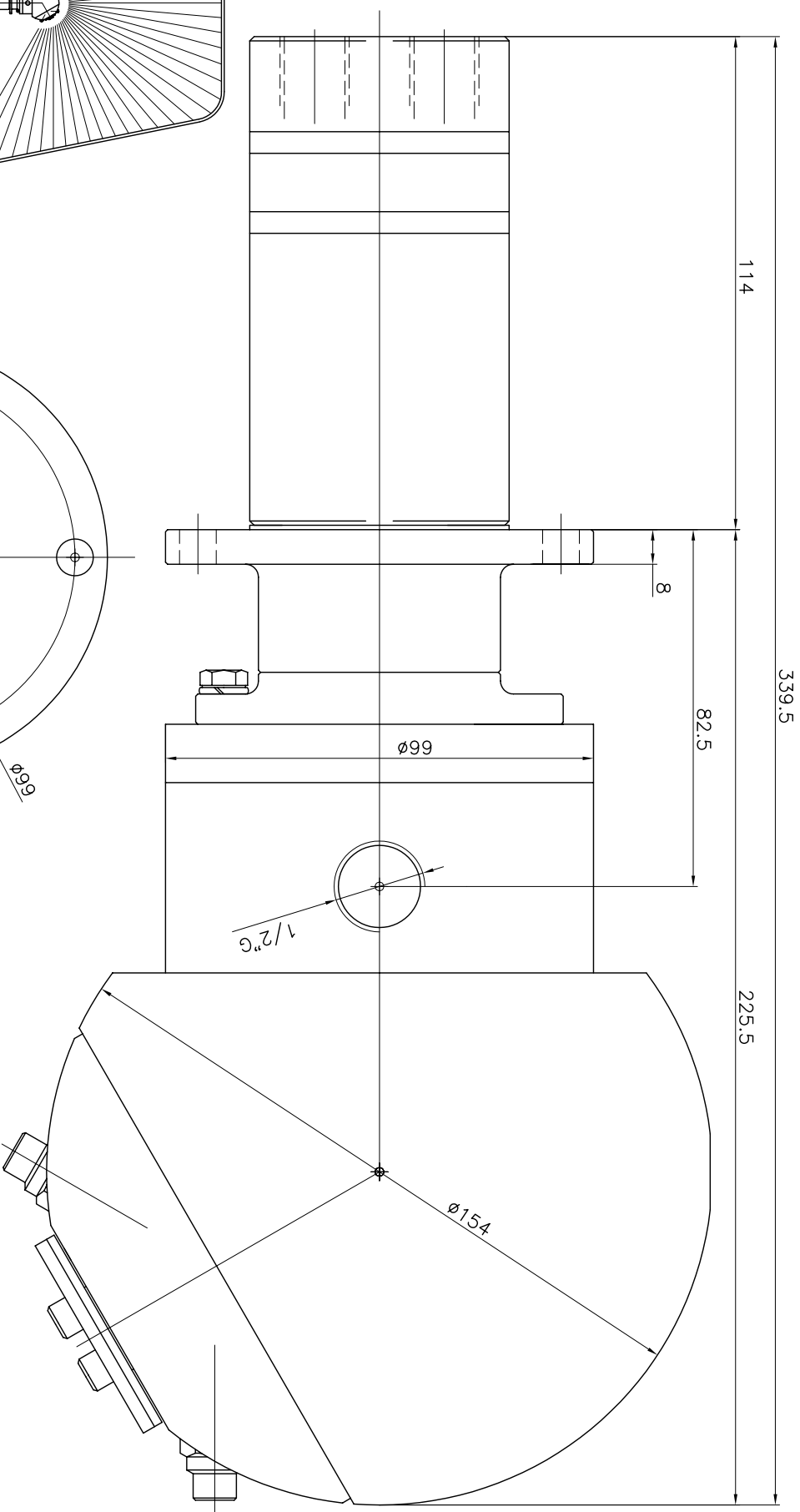
RUGOSITA' (UNI 4600)	MODIFICA	1	2	3	4	5	 CLEANING HEADS MONTECCHIO E. (RE) - ITALY DISEGN.: CR CONTR.: DM DATA: 02.08.01 MOD. SCALE
GREZZO	FOGLIO	xxxx					
~ = Ø	DATA	xx.xx.xx					
SGROSS. 3/2	TOLLERANZE GENERALI classe m	UNI-EN 22768/1 0÷6 6÷30 30÷120 120÷400 400÷1000 1000÷2000 ±0.1 ±0.2 ±0.3 ±0.5 ±0.8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



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

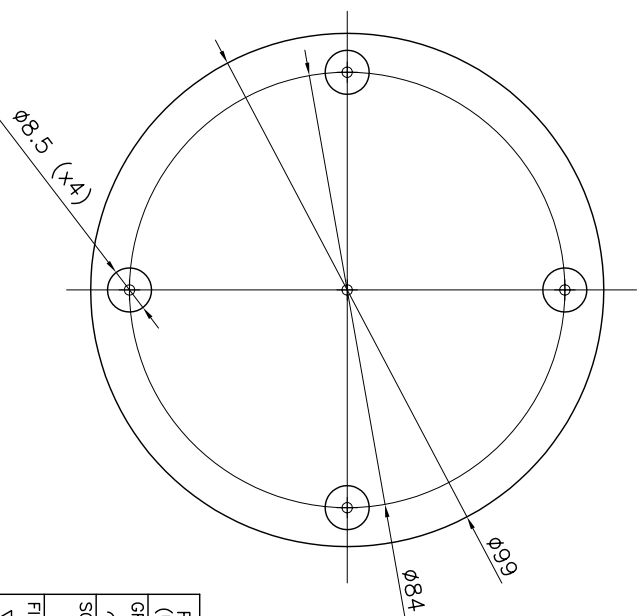
TECHNICAL DATA (GB)	
temperature max	90°C
pressure max	200 bar
flow max	30-120 l/min
spinning speed	120 g/min
short washing cycle time	15"
complete washing cycle time	30"
min. pass-through hole dia.	160 mm
water inlet	1/2"G-BSP-M
nozzle size	1/4"G-BSP-M
weight	7.5 Kg


RUGOSITÀ (UNI 4600)	MODIFICA	1	2	3	4	5	 CLEANING HEADS MONTECHIO E. (RE) - ITALY
GREZZO	FOGLIO	xxxx					
~ = √	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	
√ = 3/2	NOTE: VERSIONE 06	±0.1	±0.2	±0.3	±0.5	±0.8	
FINITURA 1/8	MATERIALE:						DESIGN.: CR1 CONTR.: DM
RETIFICA 0.8	DESCRIZIONE: AQUAMOTOR SECTOR PER LAVACASSONETTI 120°						MOD. SW 120CF
√ = 1/8							SCALA 1:1 A4 O

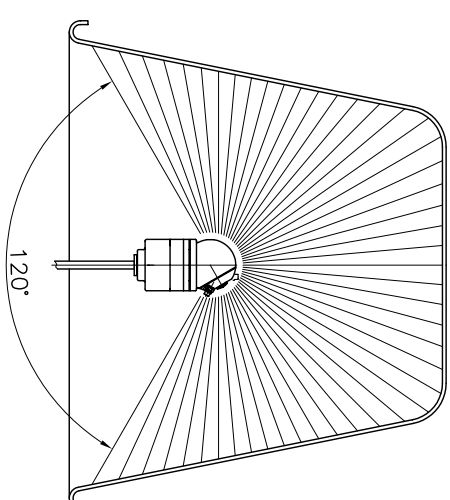
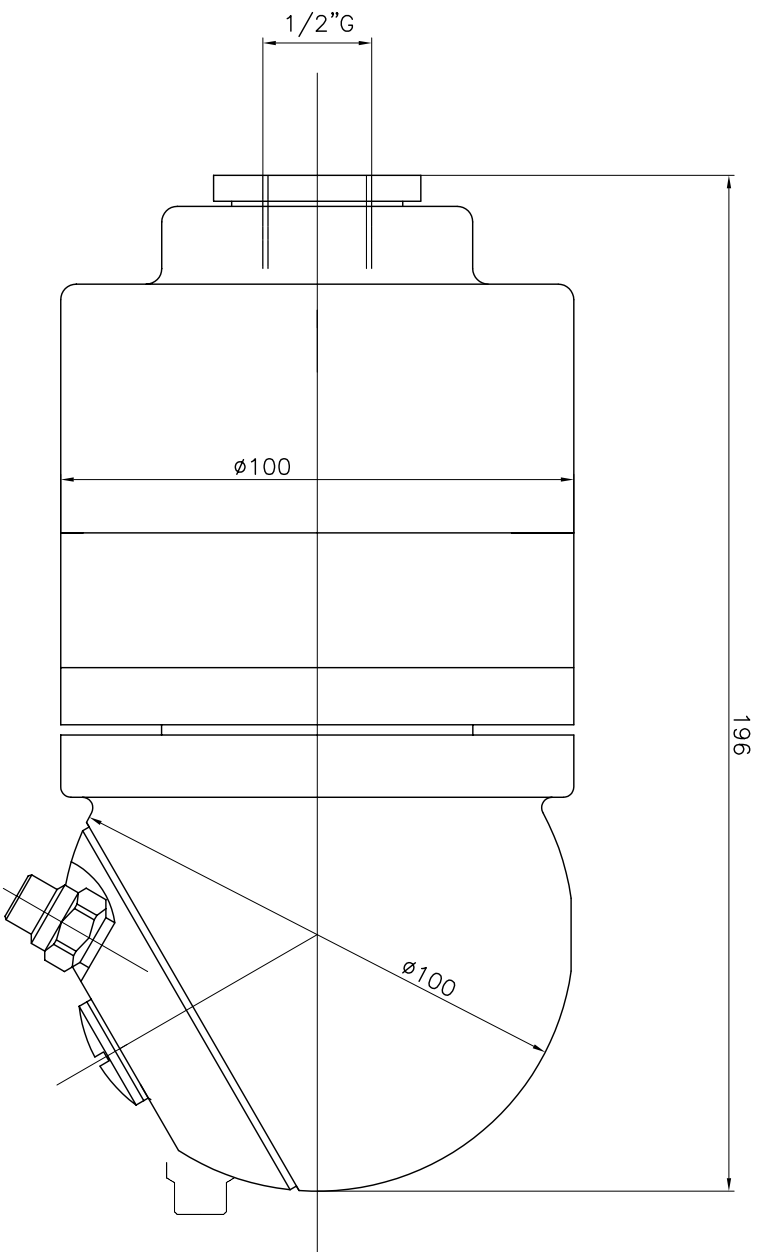


CARATTERISTICHE TECNICHE

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.

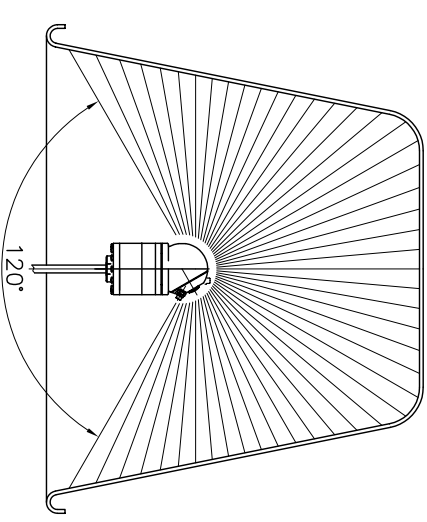
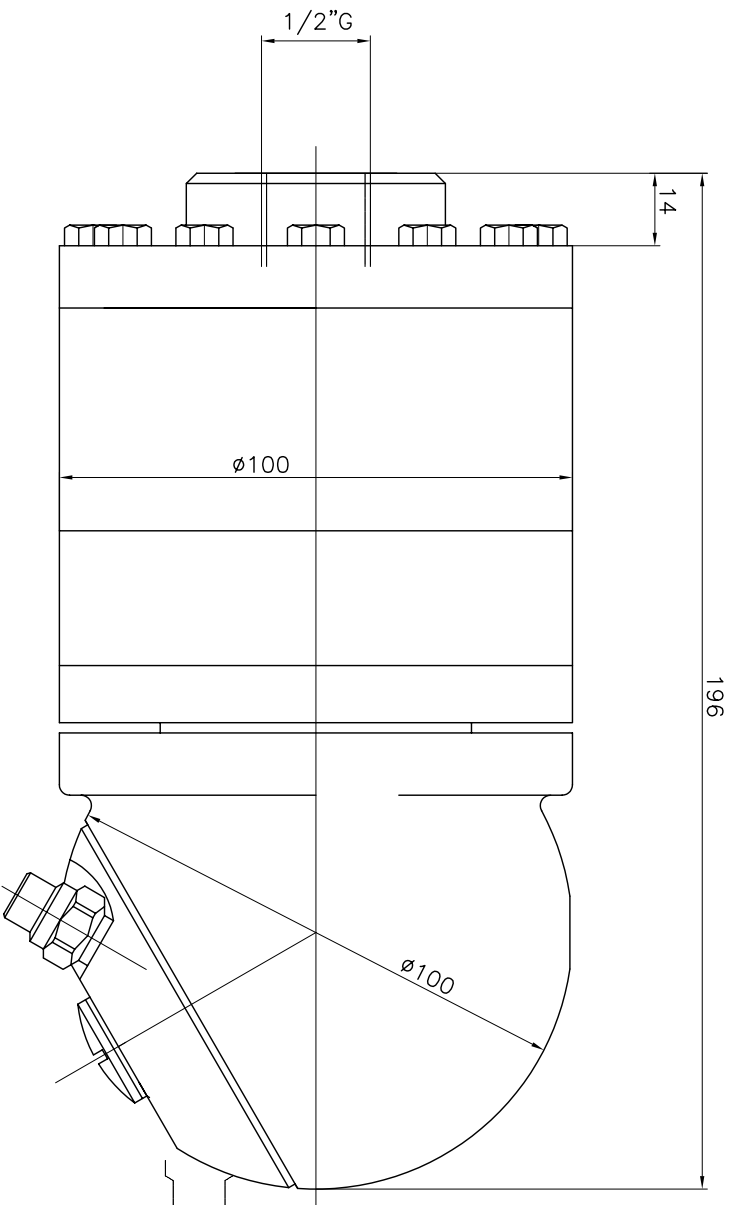


RUGOSITA' (UNI 4600)	MODIFICA	1	2	3	4	5	 CLEANING HEADS MONTECCHIO E. (RE) - ITALY DISIGN.: CR ICONTR.: DM DATA: 23.03.04 MOD.
GREZZO	FOGLIO						
~ = Ø	TOLLERANZE GENERALI classe m UNI-EN 22768/1						
SGROSS. 3/2	0÷6 ±0.1 6÷30 ±0.2 30÷120 ±0.3 120÷400 ±0.5 400÷1000 ±0.8 1000÷2000 ±1.2						
▽ = 3/2	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			

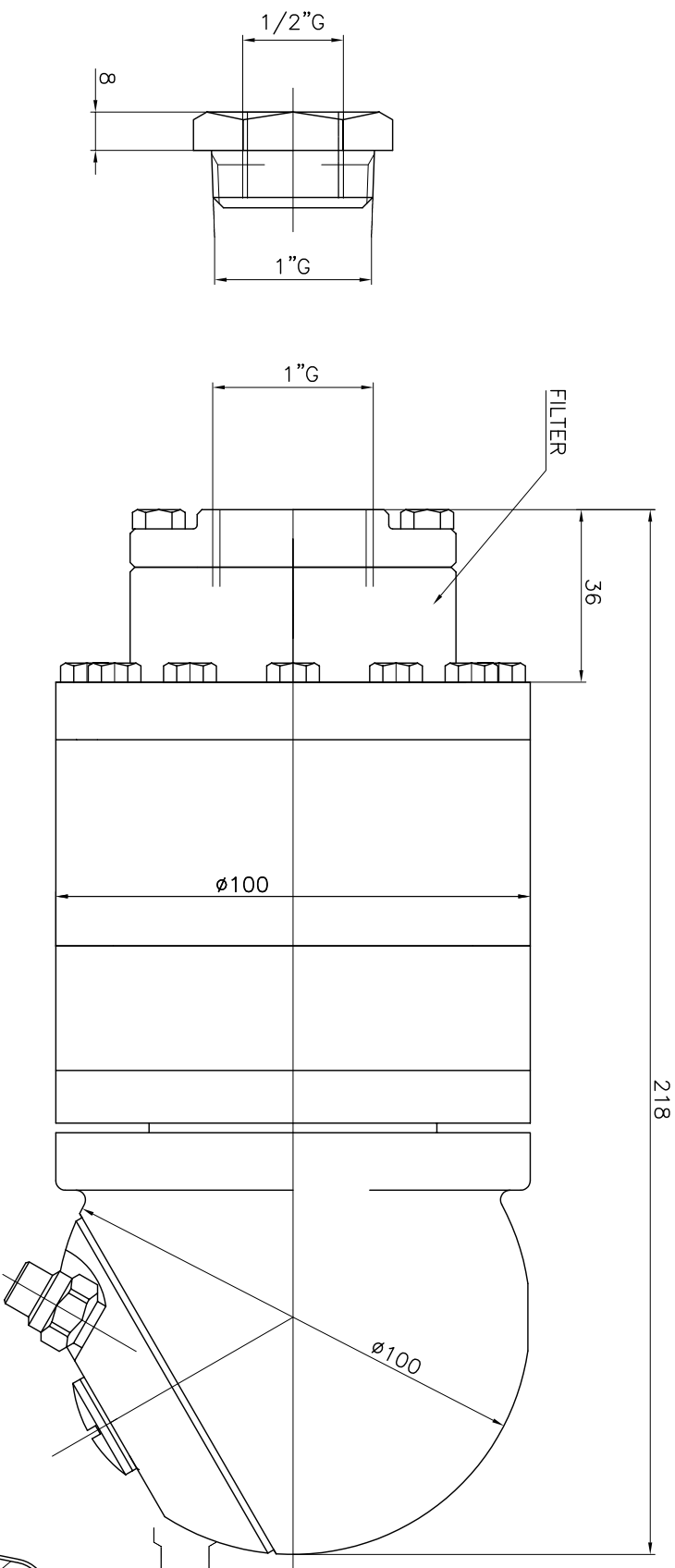
RUGOSITA' (UNI 4600)	MODIFICA	1	2	3	4	5
GREZZO	FOGLIO	xxxx				
DATA	xx.xx.xx					
TOLLERANZE GENERALI classe m UNI-EN 22768/1						
0÷6	6÷30	30÷120	120÷400	400÷1000	1000÷2000	
±0.1	±0.2	±0.3	±0.5	±0.8	±1.2	
SGROSS. 3/2	NOTE: VERSIONE 03					
∇ = 3/2						
FINITURA 1.6/						
∇∇ = 1.6/						
RETIFICA 0.8/						
∇∇∇ = 0.8/						
DESCRIZIONE: AQUAMOTOR SECTOR						
INCLINATO PER LAVACASSONETTI 120° ø100						
CODICE: SW 060 LC						
SCALA 1:1 A3 0						
DATA: 02.08.01 MOD.						
DISSEGNI: CR1 CONTR.: DM						
MONTECCHIO E. (RE) - ITALY						
BoMotif CLEANING HEADS						



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

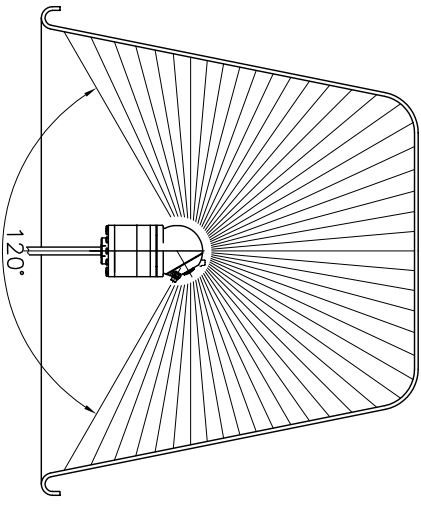
TECHNICAL DATA	
temperature max	90°C
pressure max	200 bar
flow	15-60 l/min
spinning speed	120 g/min
short washing cycle time	15"
complete washing cycle time	30"
min. pass-through hole dia.	100 mm
water inlet	1/2"G-BSP-M
nozzle size	1/8"G-BSP-M
weight	5.5 Kg


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.: CR1CONTR.: DM					
	MONTECCHIO E. (RE) - ITALY					
	DATA: 18.04.02					
	MOD.					
	SW060A-SF					

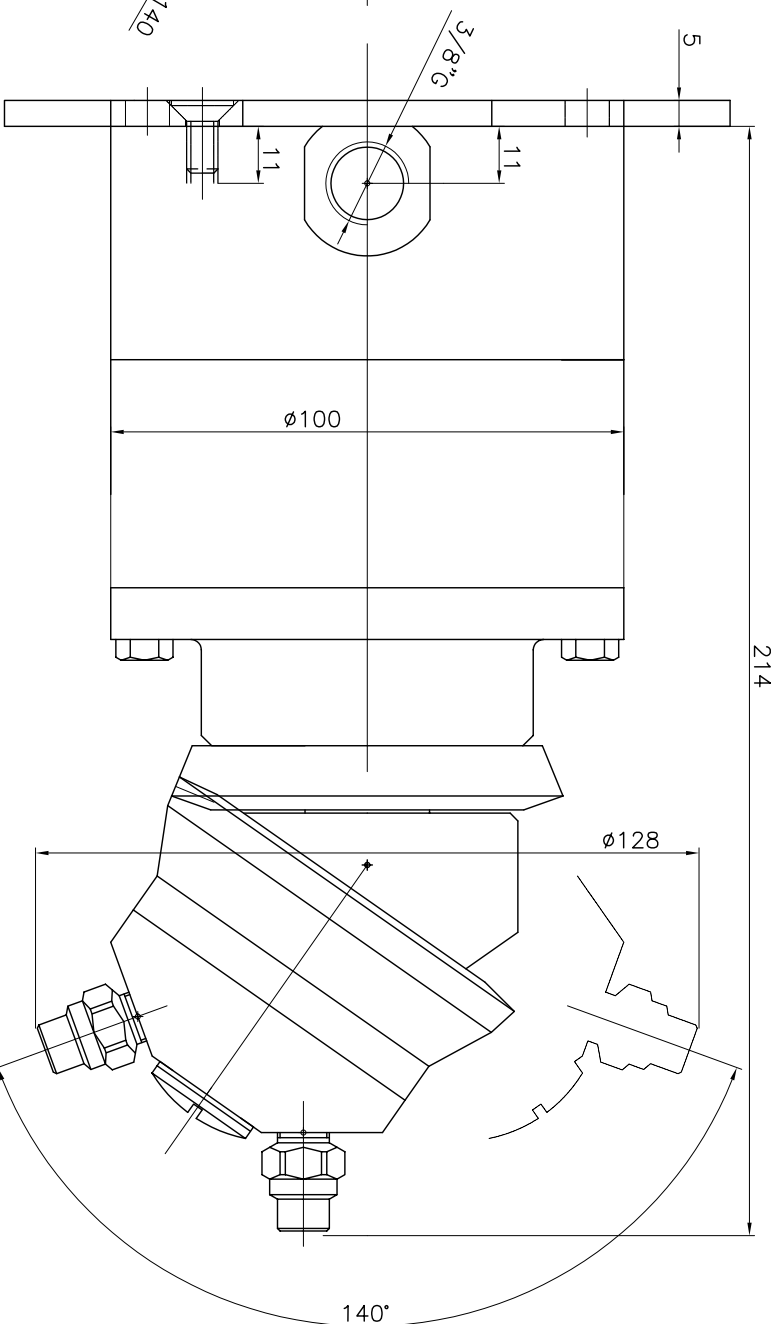


DATI TECNICI	
temperatura max	90°C
pressione max	200 bar
portata	15-60 l/min
velocità di rotazione	120 g/min
tempo ciclo breve	15"
tempo ciclo completo	30"
diametro minimo foro	100 mm
entrata	1/2"G
ugelli	1/8"G
massa	5.5 Kg

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

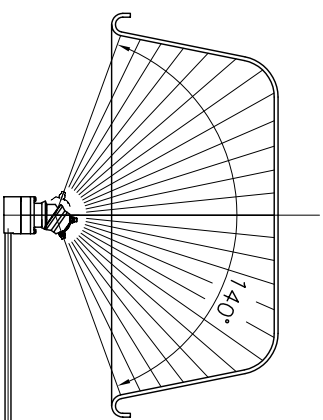



RUGOSITA' (UNI 4600)	MODIFICA	1	2	3	4	5		
GREZZO	FOGLIO	XXXX						
$\sim = \varnothing$	DATA	xx.xx.xx						
SGROSS. $\frac{3}{2}$	TOLLERANZE GENERALI classe m	UNI-EN 22768/1						
$\nabla = \frac{3}{2}$	0-6	6-30	30-120	120-400	400-1000	1000-2000		
	± 0.1	± 0.2	± 0.3	± 0.5	± 0.8	± 1.2		
	NOTE: VERSIONE 06							
FINITURA $\frac{1}{8}$	MATERIALE: INOX+ALLUMINIO							
$\nabla \nabla = \frac{1}{8}$								
RETTIFICA $\frac{0.8}{\varnothing}$	DESCRIZIONE: AQUAMOTOR SECTOR							
$\nabla \nabla \nabla = \frac{1}{8}$	OPEN CONTAINER VERSION							
	NON WASHED HOLLOW CONE 120°							
	CODICE:	SW060A-CF						
	SCALA	1:1	A3	O	 CLEANING HEADS MONTECCHIO E. (RE) - ITALY			
	DISIGN.: CR	ICONTR.: DM						
	DATA: 18.04.02	MOD.						



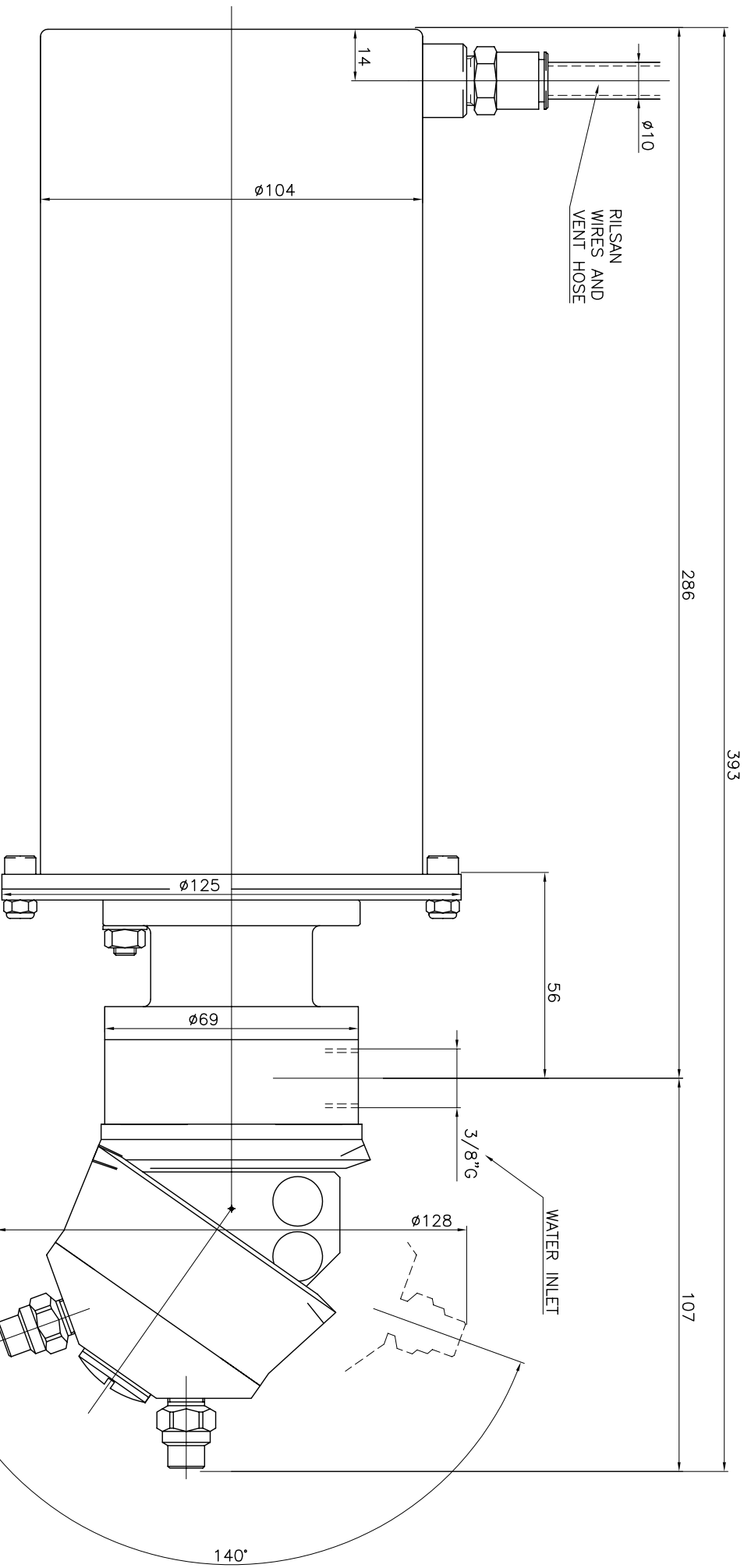
O-RING	NBR – EPDM – VITON
SLEPPER	PTFE+CARBON FIBRE
BUSHING	ASI 316
FILTER	700 MICRON
NOZZLES POSITIONS	2 – 4
NOZZLES THREAD	1/8"NPT
TESTING NOZZLES	0 x 0000
OPERATING FLOW RANGE	15 – 60 L/min
TESTING FLOW	00 L/min
OPERATING PRESSURE RANGE	5 – 200 bar
TESTING PRESSURE	000 bar
CENTER LINE MIN PASS THROUGH HOLE	140 mm
MANUAL MIN PASS THROUGH HOLE	140 mm
MAX OPERATING TEMPERATURE	90 °C
MATERIAL	INOX ASI 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			

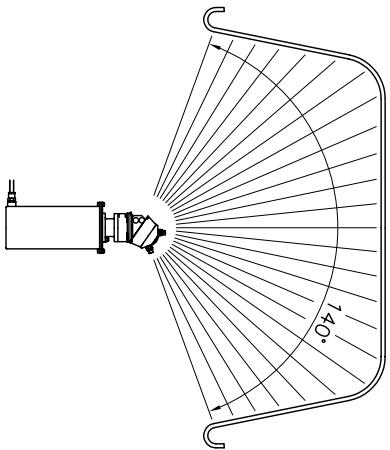


RUGOSTA' (UNI 4600)	MODIFICA	1	2	3	4	5	 CLEANING HEADS MONTECCHIO E. (RE) - ITALY	
GREZZO	FOLIO	XXXX						
~ =	DATA	XX.XX.XX						
SRGROSS.	TOLLERANZE GENERALI classe m UNI-EN 22768/1	0÷6	6÷30	30÷120	120÷400	400÷1000		1000÷2000
Δ = 3/2	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2		
FINITURA	NOTE:						DISEGN: CR CONTR: DM	
1.6/	MATERIALE: AISI 304						DATA: 20.02.09	MOD
RETIFICA							SCAL	
Δ/ΔΔΔ = 0.8/	DESCRIZIONE: SW060 WKL 01 SIDE INLET FRONTAL PATTERN 140°						1:1	A3
								0
								SW 060WKL 01

file: SW 060WKL 01 cm



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					

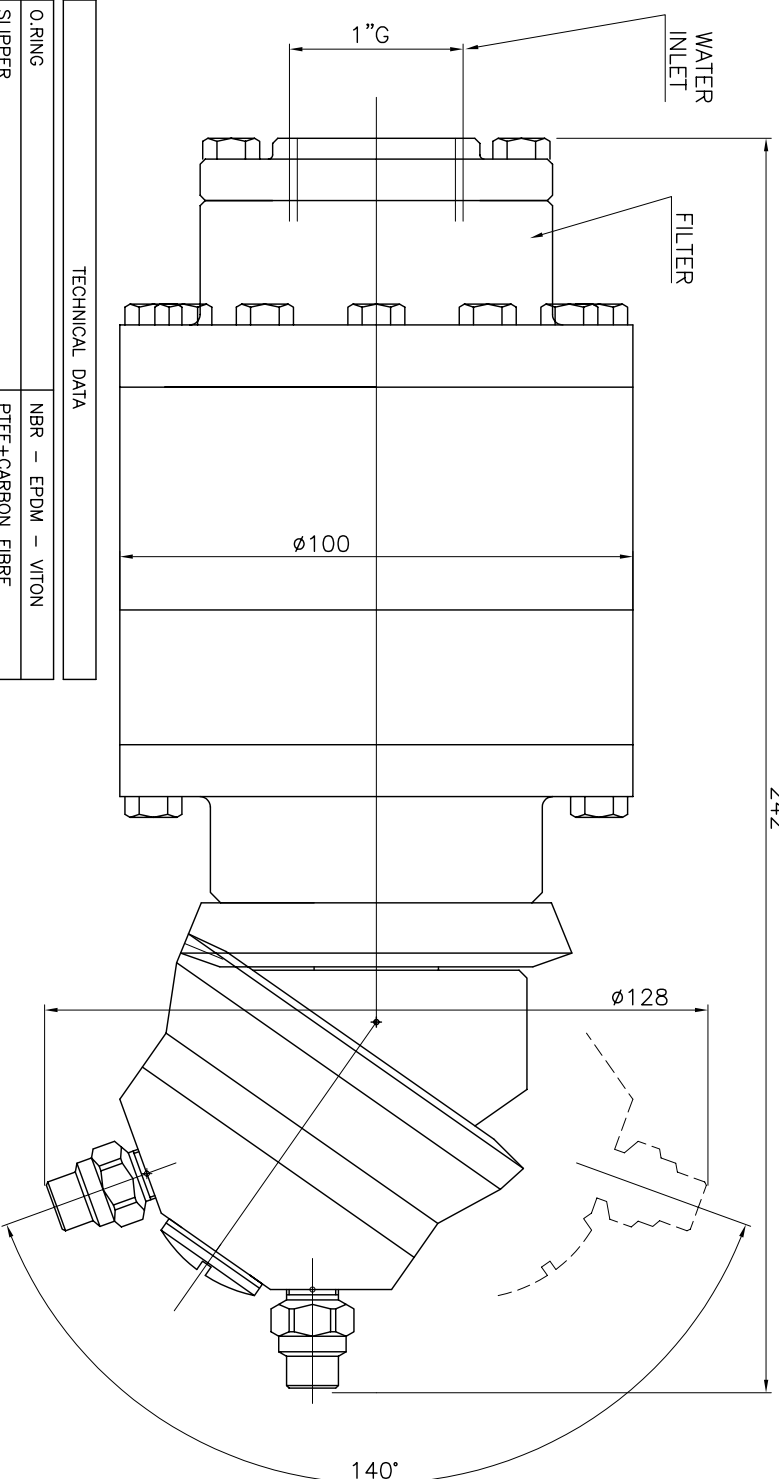


MONTECCHIO E. (RE) - ITALY

DISEGN.: CR I CONTR.: DM

DATA: 14.11.08 MOD.

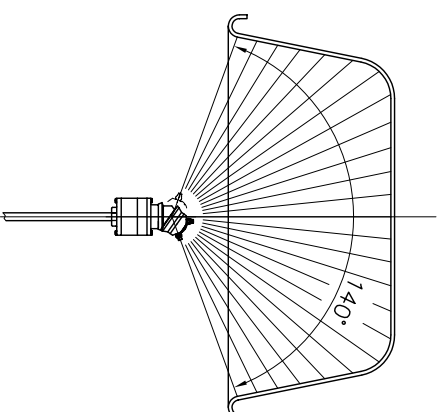
SCALA 1:1 A3 0



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	42		
30		90	42		
45			72	42	
60			96	60	
SPINNING SPEED		RPM			



file: SW 060WKC 01 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					
$\sim = \varnothing$	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
$\nabla = \frac{3.2}{\sqrt{f}}$	NOTE:					
FINITURA $\frac{1.6}{\sqrt{f}}$	MATERIALE: AISI 304					
RETIFICA $\frac{0.8}{\sqrt{f}}$	DESCRIZIONE: SW060 WKC 01 cm1 WITH FILTER					
$\nabla \nabla = \frac{1.6}{\sqrt{f}}$	FRONTAL PATTERN 140°					
$\nabla \nabla \nabla = \frac{0.8}{\sqrt{f}}$	CODICE: SW 060WKC 01					

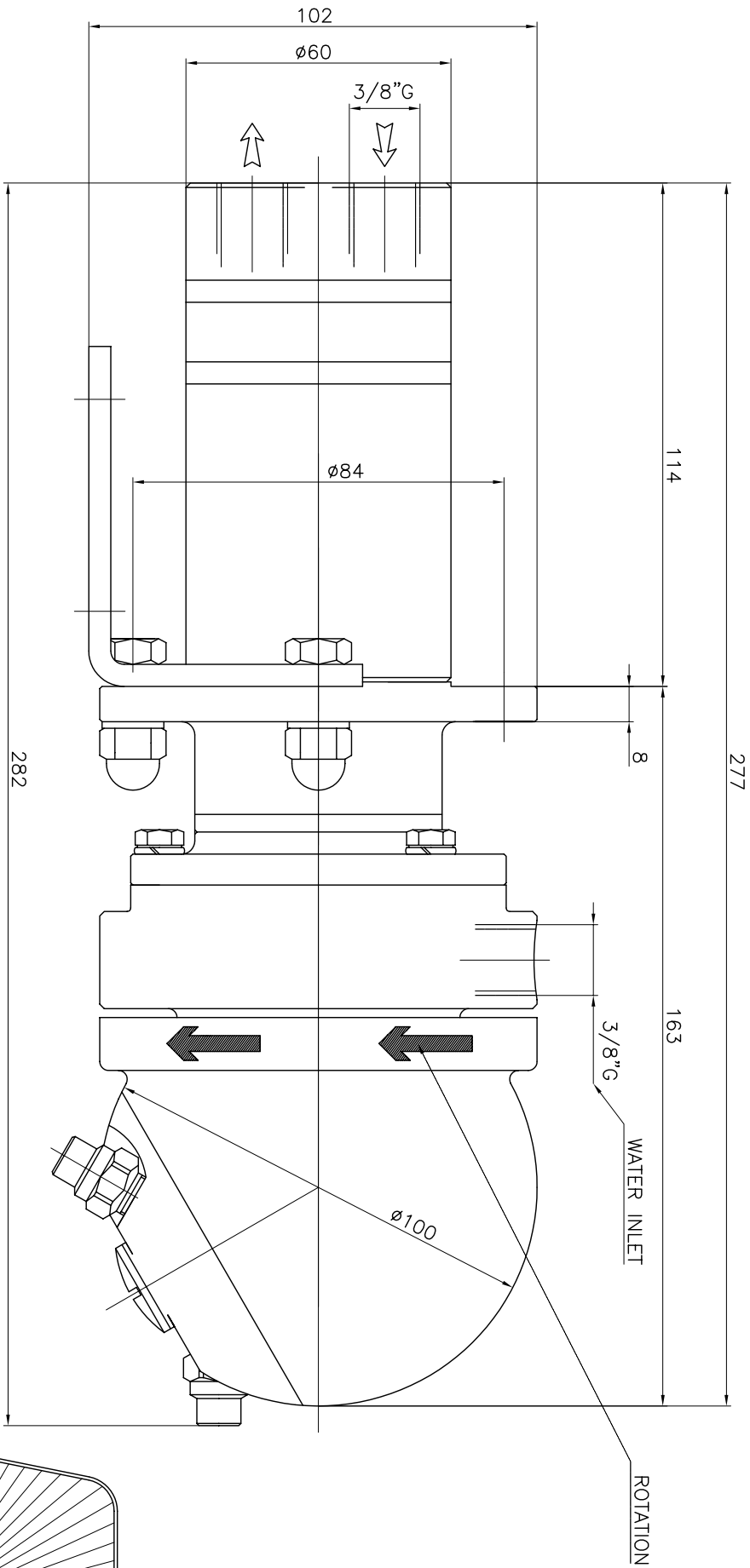
Bonomati
CLEANING HEADS

MONTECCHIO E. (RE) - ITALY

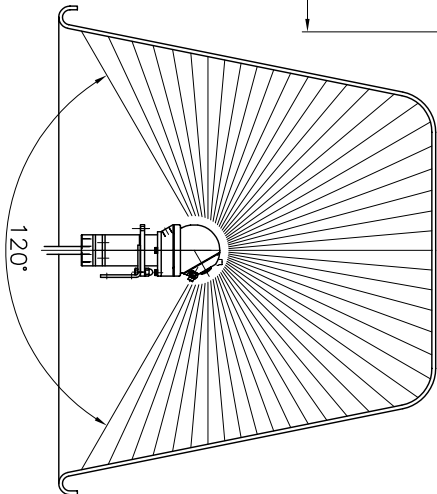
DISEGN.: CR I CONTR.: DM

DATA: 16.02.09 MOD.

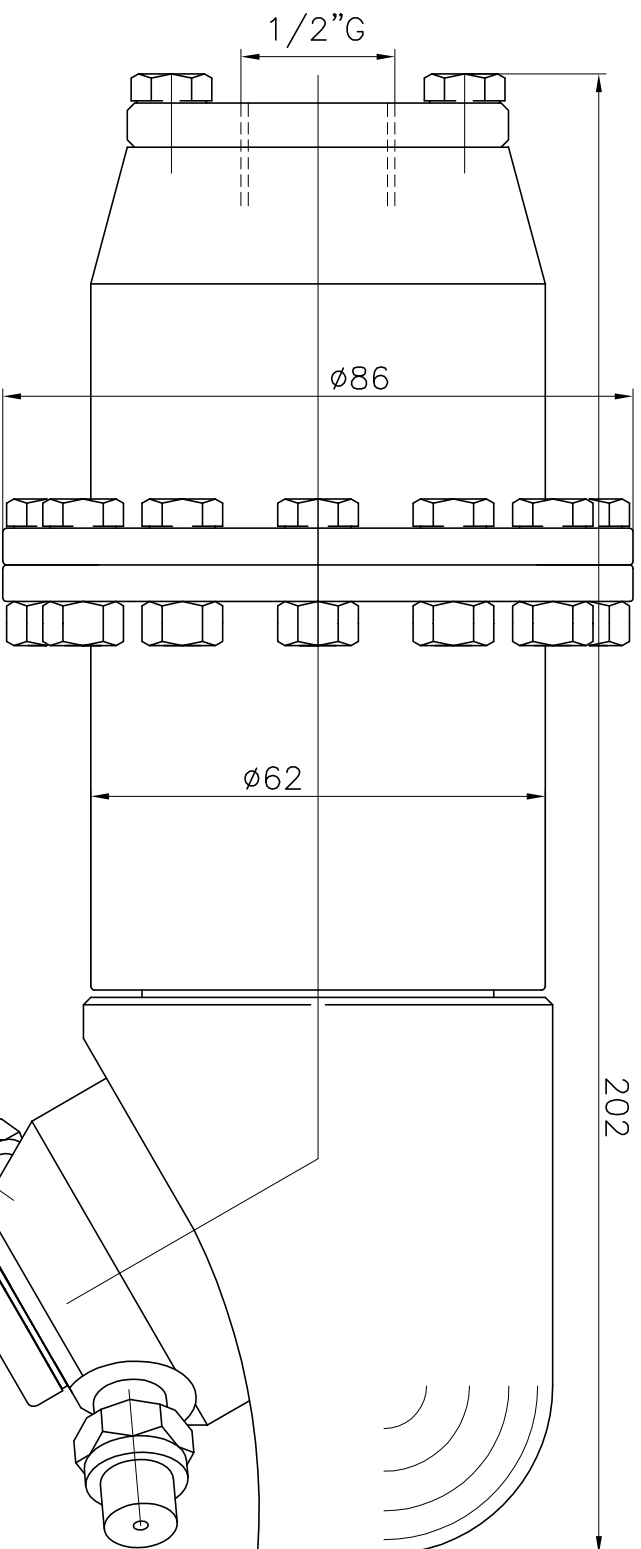
SCALA 1:1 A3 0



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.	

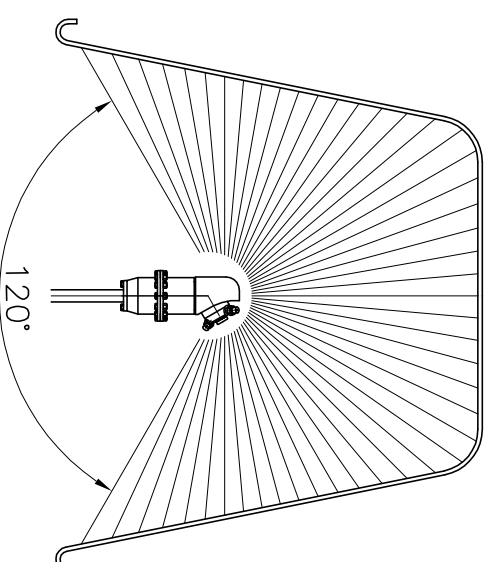


RUGOSITA' (UNI 4600)	MODIFICA	1	2	3	4	5
FOGLIO	XXXX					
DATA	XX.XX.XX					
GREZZO	TOLLERANZE GENERALI classe m UNI-EN 22768/1					
~ = ∅	0÷6 6÷30 30÷120 120÷400 400÷1000 1000÷2000					
SGROSS. 3/2	±0.1 ±0.2 ±0.3 ±0.5 ±0.8 ±1.2					
∇ = 3/2	NOTE:					
FINITURA 1.6/	MATERIALE: ALUMINIUM					
∇∇ = 1.6/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

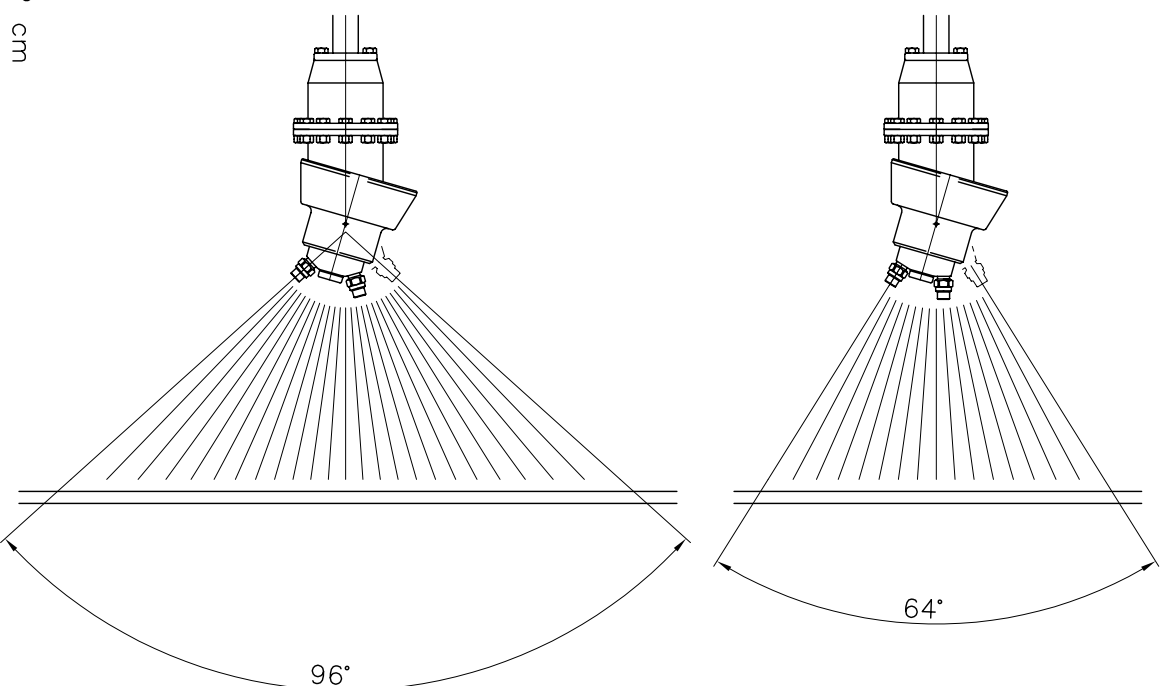
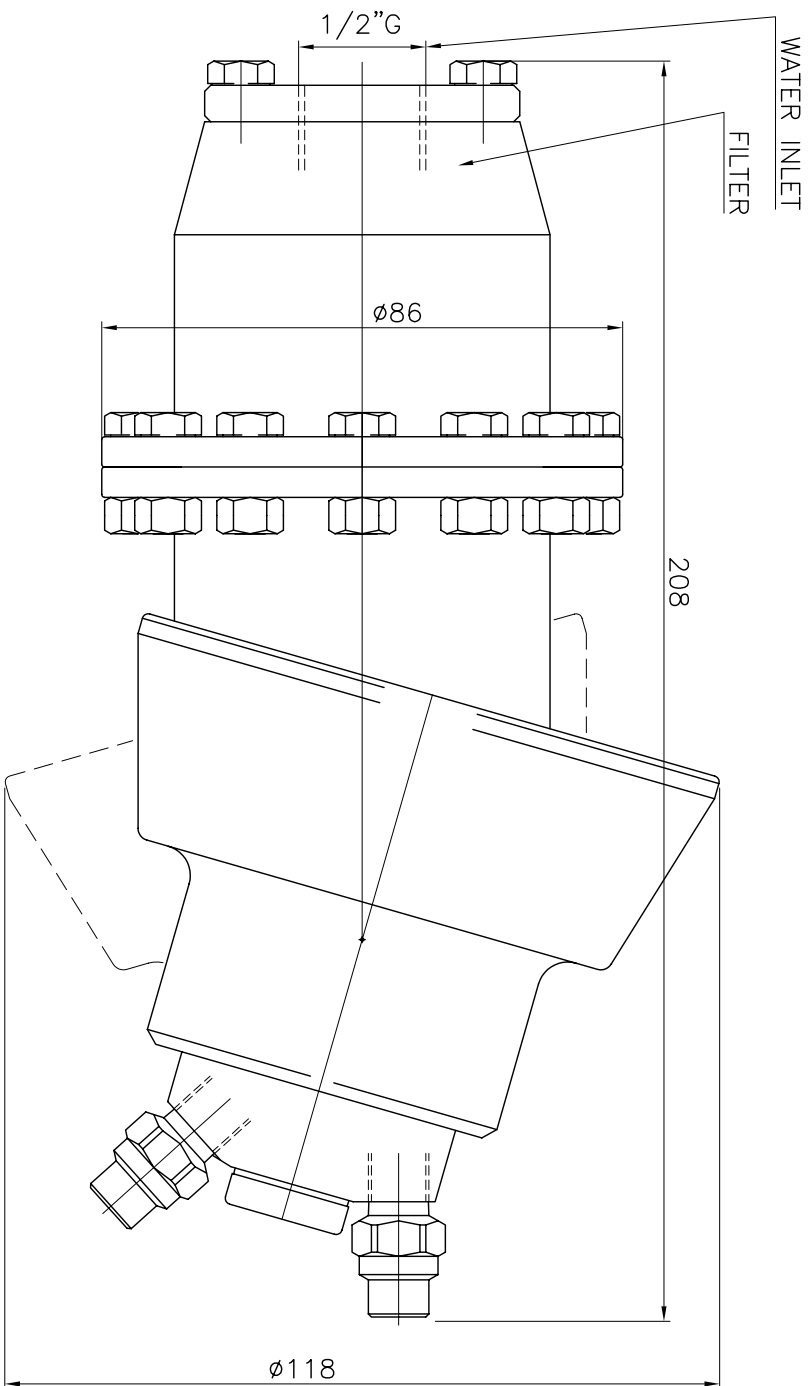


DATI TECNICI (I)	
temperatura max	90°C
pressione max	150 bar
portata	15-60 l/min
velocità di rotazione	100 g/min
tempo ciclo	14 sec
diametro minimo foro	88 mm
entrata	1/2"G
filtro	700 micron
ugelli	1/8"NPT
numero ugelli	2 - 4
peso	3.5 Kg

TECHNICAL DATA (GB)	
temperature max	90°C
pressure max	150 bar
flow	15-60 l/min
spinning speed	100 rpm
washing cycle time	14 sec
min. pass-through hole dia.	88 mm
water inlet	1/2"G
filter	700 micron
nozzle size	1/8"NPT
nozzles positions	2 - 4
weight	3.5 Kg



RUGOSITA' (UNI 4600)	MODIFICA	1	2	3	4	5
GREZZO	FOGLIO	XXXX				
~ = √	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:	vers.05				
▽▽ = √	MATERIALE:	INOX + AL				
	DESCRIZIONE:	AQUAMOTOR SECTOR 120°				
	INSTALLATION DRAWING					
	CODICE:	SW 049AA 05				
	SCALE	1:1	A4	O		
	DATA:	14.03.12				
	DISEGN.: CR	CONTR.: DM				
	MONTECCHIO E. (RE) - ITALY					
	CLEANING HEADS					




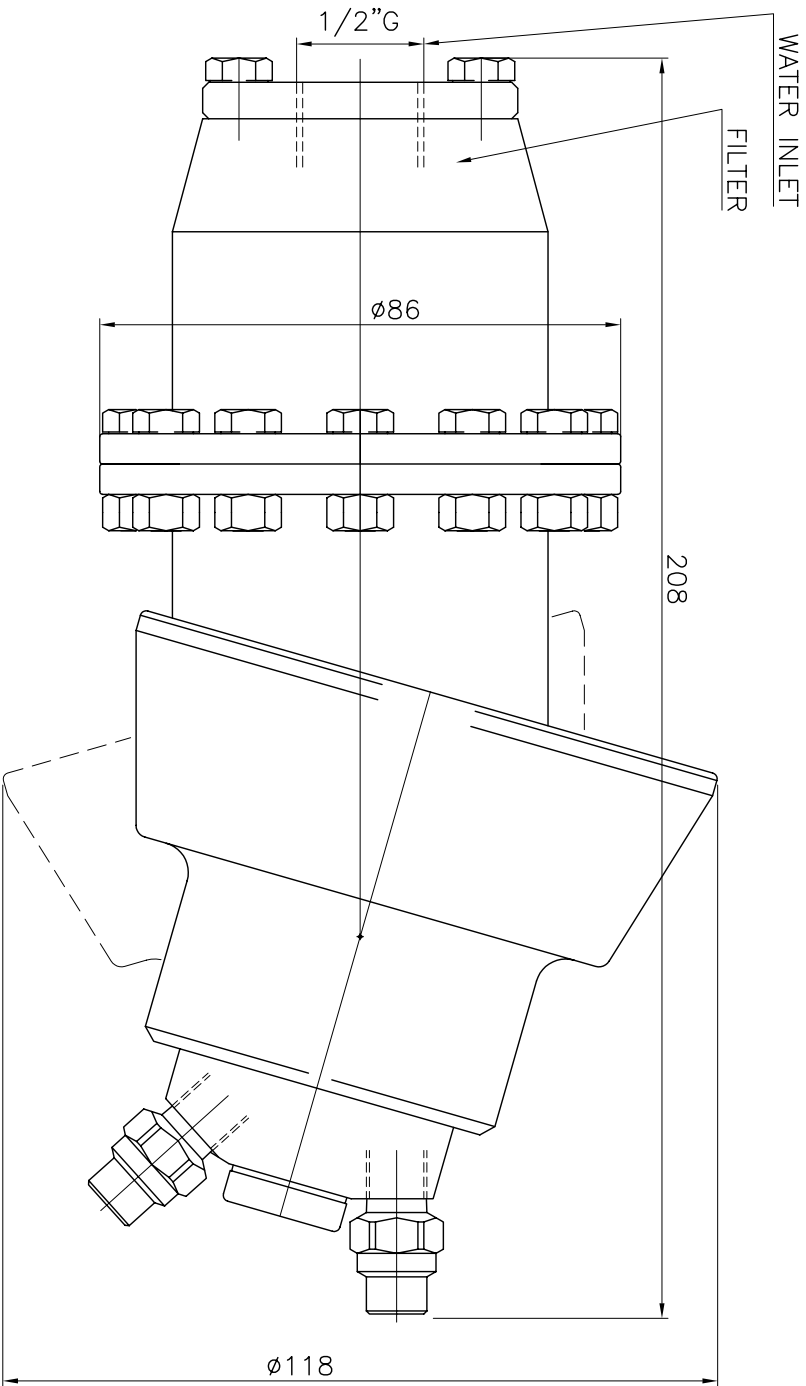
2 1/8"NPT NOZZLES POSITIONS ON 64° CONE
2 1/8"NPT NOZZLES POSITIONS ON 96° CONE

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				
	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
∇ = 3.2/√	NOTE:					
FINITURA 1.6/√	MATERIALE: INOX					
RETTIFICA 0.8/√	DESCRIZIONE: ORBITAL SURFACE WASHING INSTALLATION DRAWING					
∇∇∇ = ∇/√						
<div> CLEANING HEADS MONTECCHIO E. (RE) - ITALY</div>						
DISEGN.: CR		CONTR.: DM				
DATA: 17.02.09		MOD.				
SCALA		1:1		A4		
				O		
CODICE:		SW 048 SP				

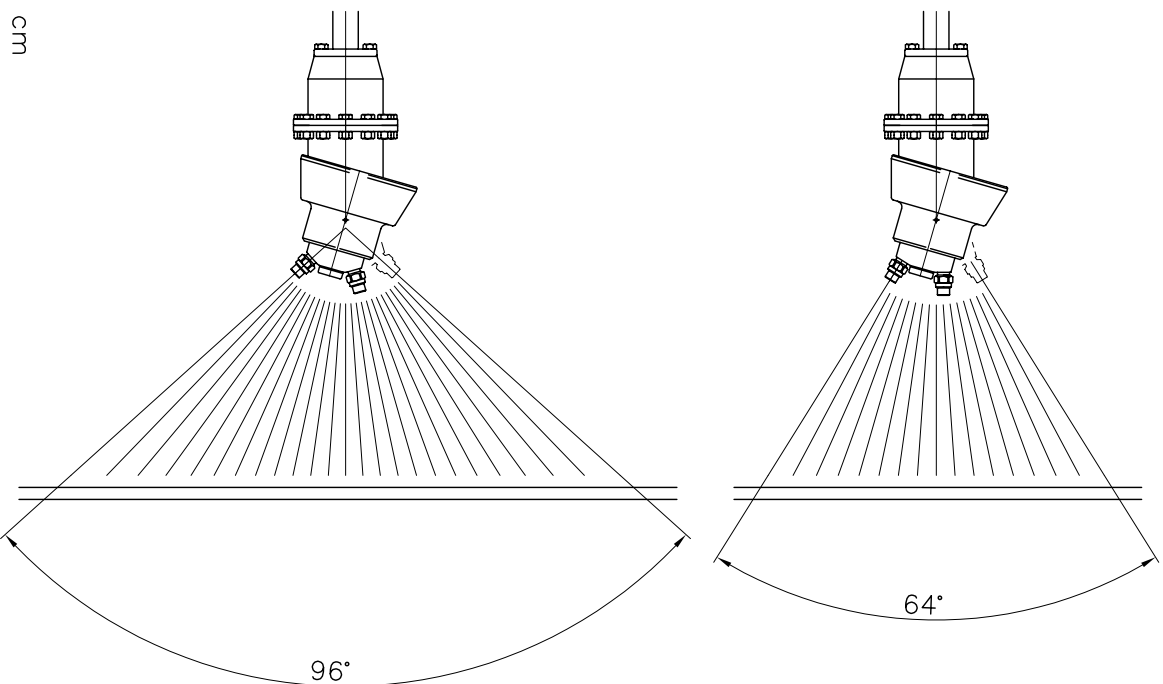



2 1/8"NPT NOZZLES POSITIONS ON 64° CONE
2 1/8"NPT NOZZLES POSITIONS ON 96° CONE

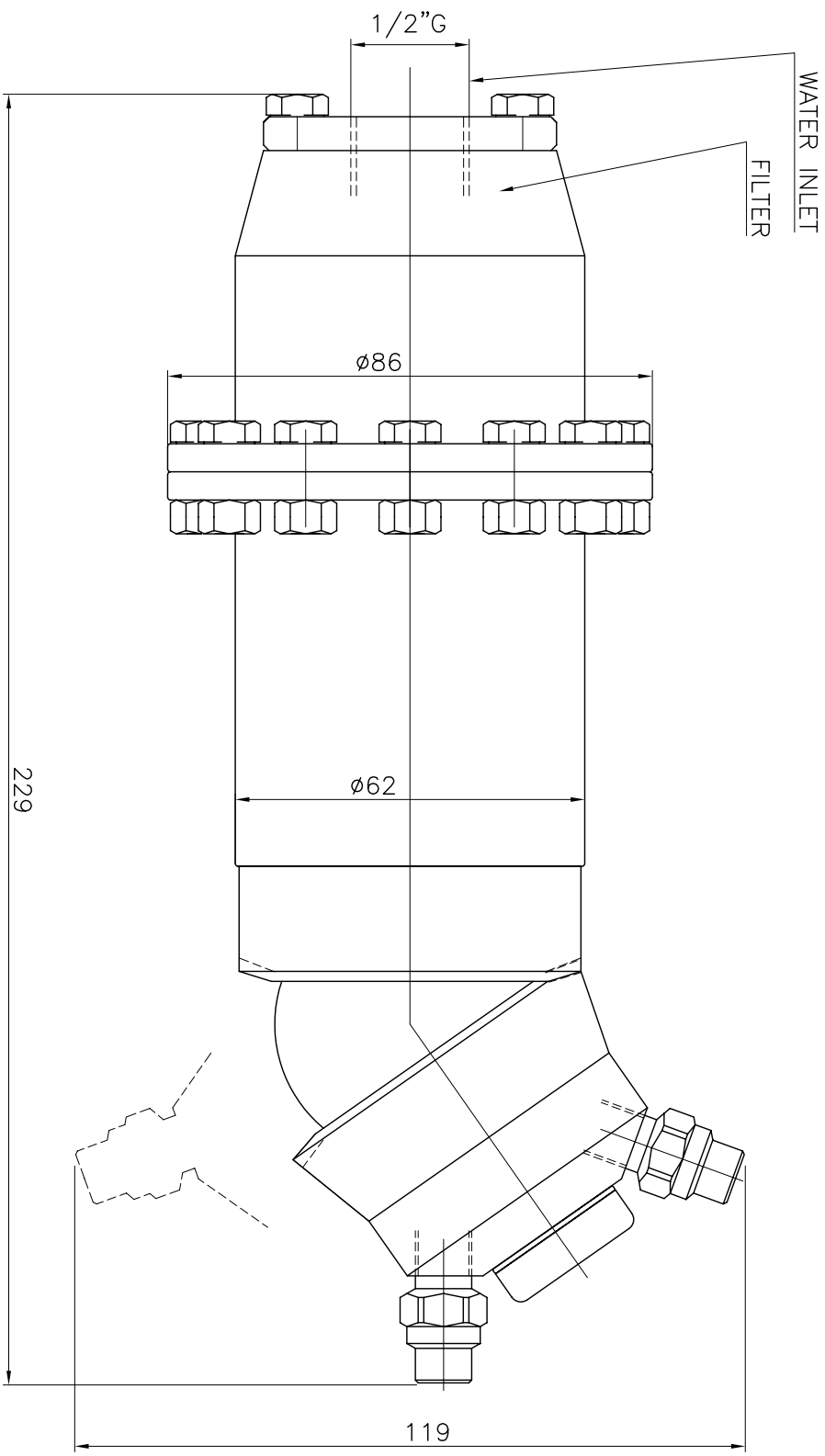
PLUG NOZZLES POSITIONS NOT USED

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					
	0÷6	6÷30	30÷120	120÷400	400÷1000	1000÷2000
GREZZO ~ = √	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2
SGROSS. 3.2/ ∇ = √	NOTE:					
FINITURA 1.6/ ∇∇ = √	MATERIALE: INOX					
RETTIFICA 0.8/ ∇∇∇ = √	DESCRIZIONE: ORBITAL SURFACE WASHING INSTALLATION DRAWING					
CODICE:		 CLEANING HEADS MONTECHIO E. (RE) - ITALY				
SW 048 SL						



TECHNICAL DATA	
temperature max	90°C
pressure max	150 bar
flow	15-60 l/min
spinning speed	80 rpm
washing cycle time	45 sec.
min. pass-through hole dia.	120 mm
water inlet	1/2"G
inlet filter	700 micron
nozzle size	1/8"NPT
nozzles positions	2 - 4
weight	3.2 Kg

file: SW 186 WKC cm1

RUGOSITA' (UNI 4600)																															
MODIFICA		1	2	3	4	5	CLEANING HEADS																								
FOGLIO		XXXX					MONTECCHIO E. (RE) - ITALY																								
DATA		XX.XX.XX					DISEGN.: CR CONTR.: DM																								
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/		NOTE: ex RW186 WKC 16.02.09																													
FINITURA 1.6/																															
▽▽ = 3/		MATERIALE: INOX																													
RETTIFICA 0.8/		DESCRIZIONE: SW 186 WKC																													
▽▽▽ = 3/		INSTALLATION DRAWING																													
		CODICE: SW 186 WKC																													

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

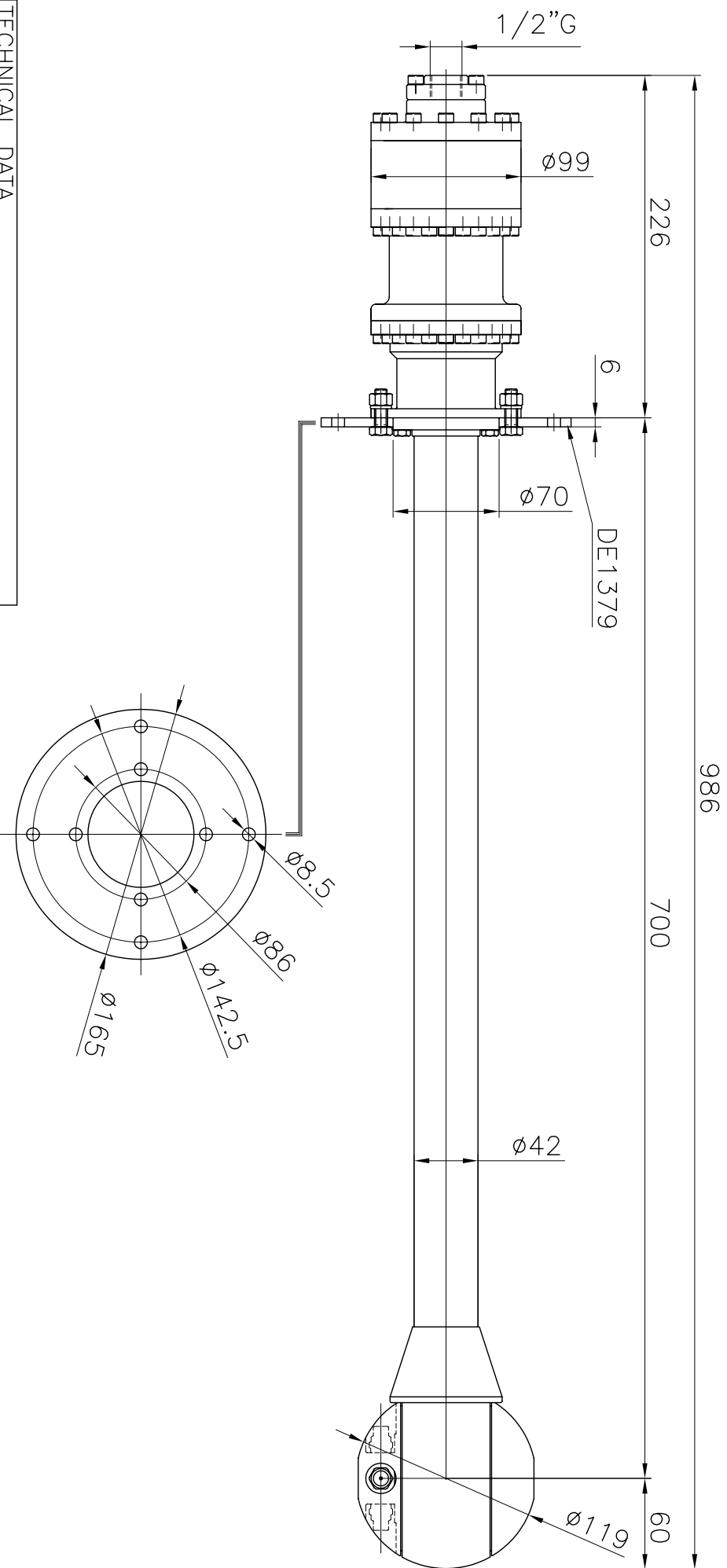


La parte terminale della testina anziché essere con ugelli sporgenti è realizzata con una sfera per facilitare l'introduzione automatica in fori molto piccoli. Disponibili in diverse lunghezze fino ad un max. di 6mt

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



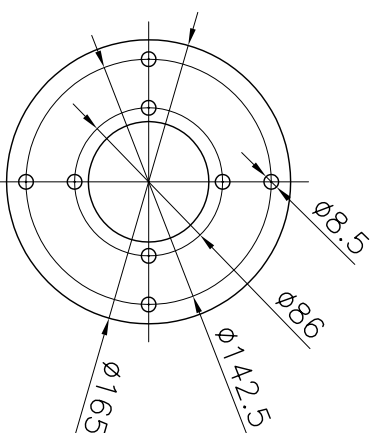
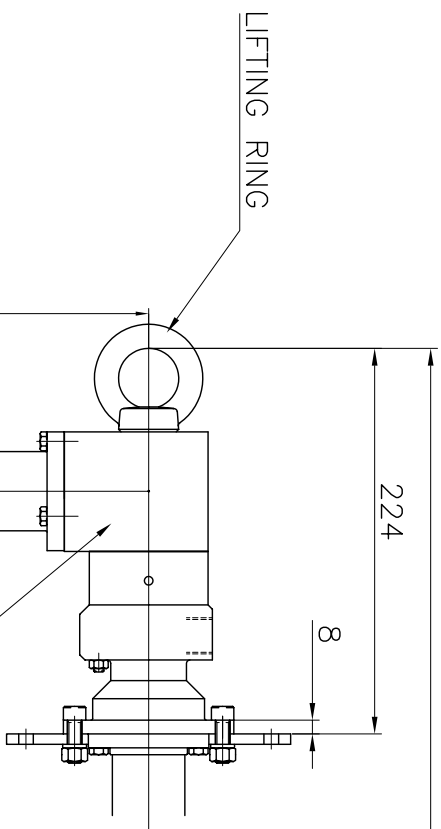
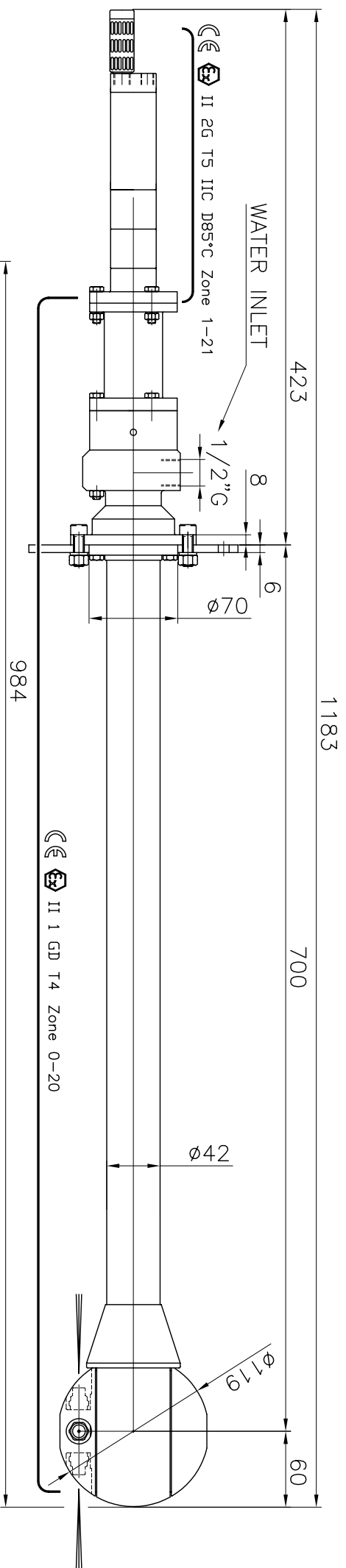
TECHNICAL DATA	
temperature max	90°C
pressure max	500 bar
flow	15-60 l/min
spinning speed	16 rpm
washing cycle time	6 min
min. pass-through hole dia.	120 mm
water inlet	1/2"G
inlet filter	700 micron
material	INOX
seals	NBR
nozzle size	1/4"NPT
nozzles positions	2 - 4
weight	10.5 Kg

RUGOSITA' (UNI 4600)	MODIFICA				
	1	2	3	4	5
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
∇ = ∇	±0.1	±0.2	±0.3	±0.5	±0.8
NOTE:					
FINITURA 1.6/					
MATERIALE:					
DESCRIZIONE: XB 586A					
INSTALLATION DRAWING					
CODICE: XB 586A					



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

SCALE 1:1 A4 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

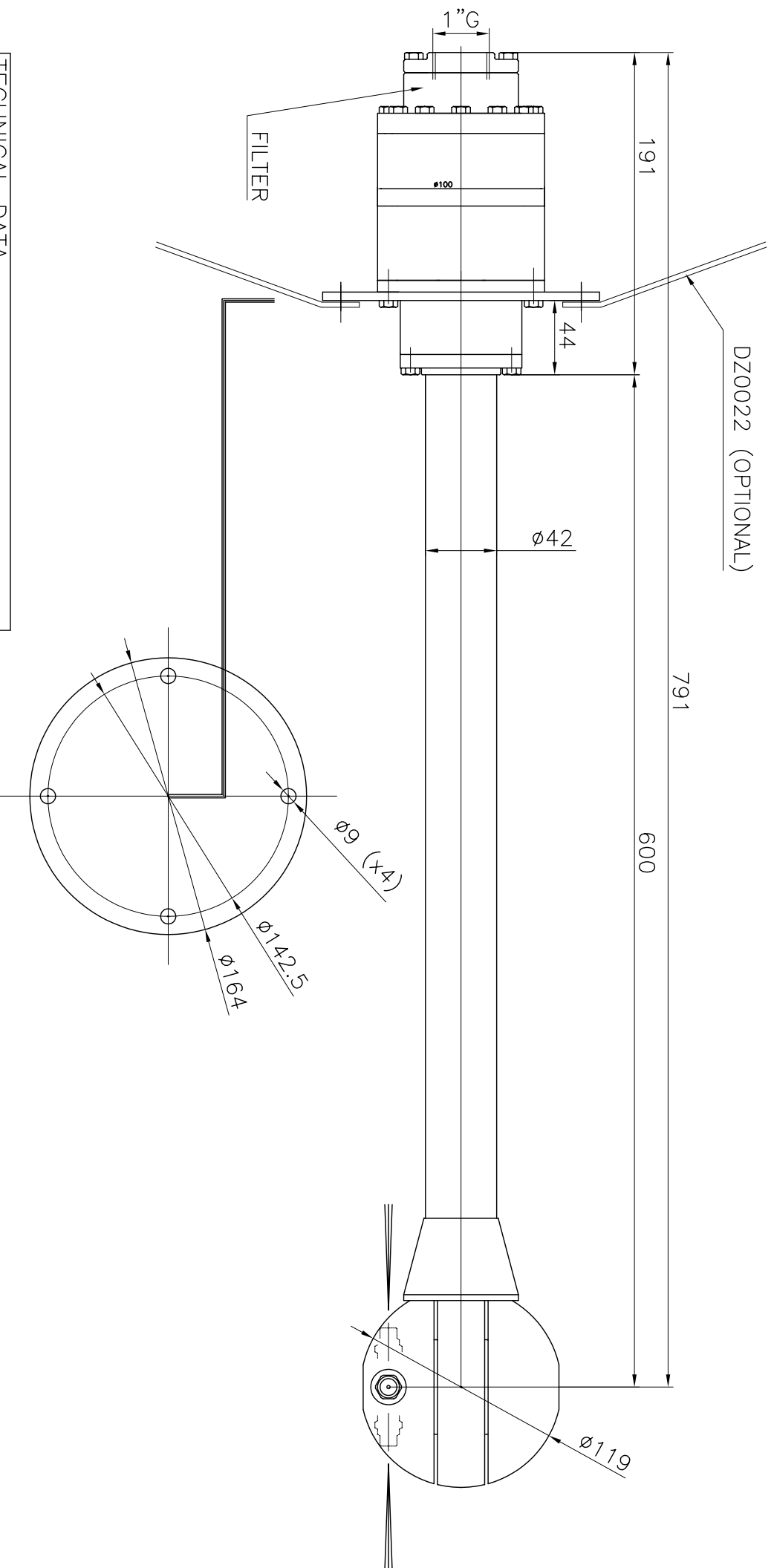
TECHNICAL DATA

O.RING	NBR
SLIPPER	PTFE+CARBON FIBER
BUSHING	ASI 316
NOZZLES POSITIONS	2 - 4
NOZZLES SIZE	1/4"NPT
MAX OPERATING FLOW	60 L/min
MAX OPERATING PRESSURE	500 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 ATEX BA 725 INOX
AIR EXHAUST	FESTO SILENCER BP 415 ON MOTOR
WEIGHT	7.9 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. $\frac{3.2}{\sqrt{}}$	± 0.1	± 0.2	± 0.3	± 0.5	± 0.8	± 1.2
NOTE:						
FINITURA $\frac{1.6}{\sqrt{}}$	MATERIALE:					
RETTIFICA $\frac{0.8}{\sqrt{}}$	DESCRIZIONE: XB 586 PPF 01					
$\frac{0.8}{\sqrt{}}$	INSTALLATION DRAWING					
	CODICE:					
	XB 586 PPF 01					



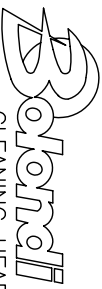
DESIGN.: CR CONTR.: DM
DATA: 04.12.09 MOD.
SCALE 1:4 A4 O



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

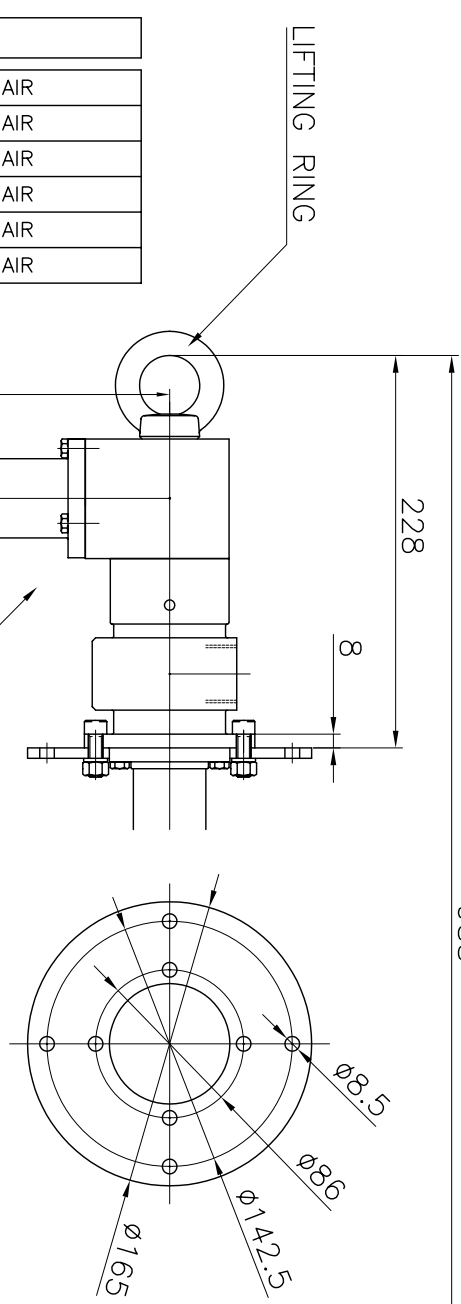
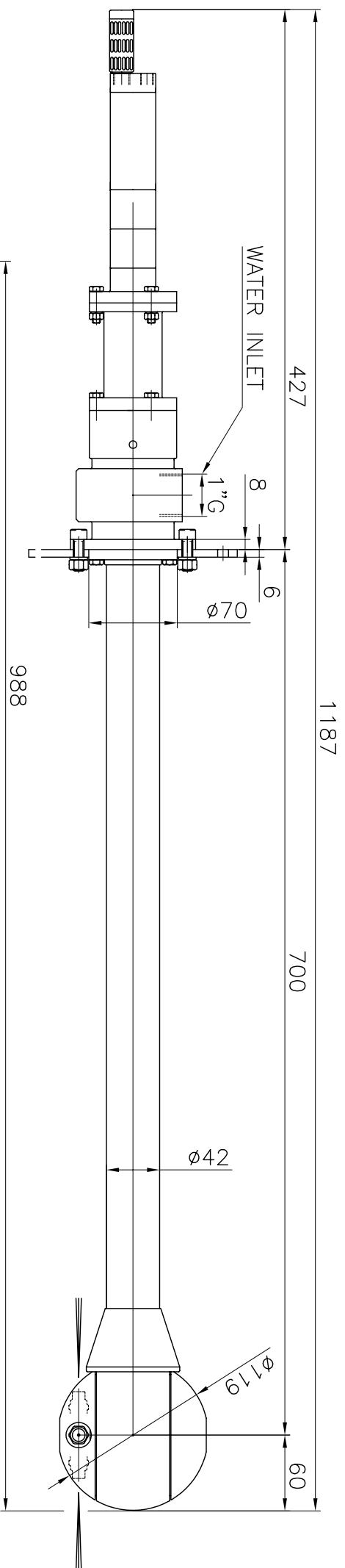
RUGOSITA' (UNI 4600)	MODIFICA	1	2	3	4	5
	FOGLIO	XXXX				
GREZZO	DATA	XX.XX.XX				
	TOLLERANZE GENERALI classe m UNI-EN 22768/1	0÷6	6÷30	30÷120	120÷400	400÷1000
SGROSS. 32/	NOTE:	±0.1	±0.2	±0.3	±0.5	±0.8
						±1.2
FINITURA 1.6/	MATERIALE:	INOX				
RETTIFICA 0.8/	DESCRIZIONE:	XB 200-AA				
	INSTALLATION DRAWING					
CODICE:		XB 200-AA				

file: XB 200AA.01 comm

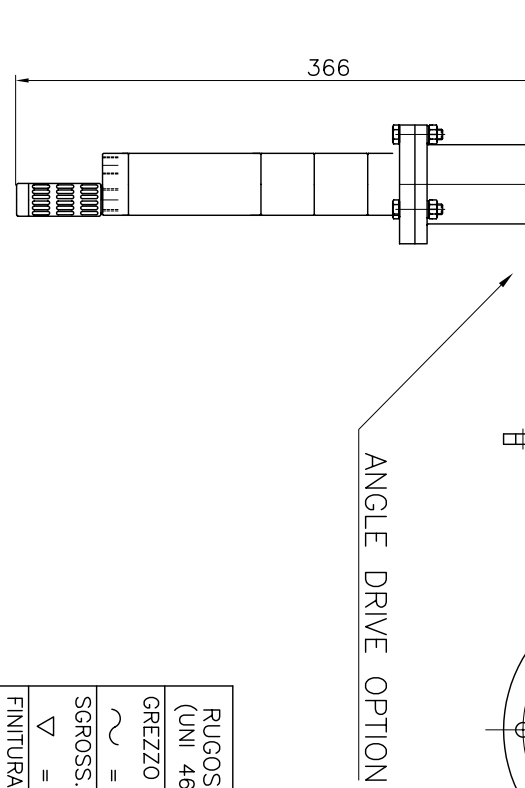


MONTECCHIO E. (RE) - ITALY
DISEGN.: CR CONTR.: DM
DATA: 01.12.06 MOD.


SCALA 1:3 A4 O



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

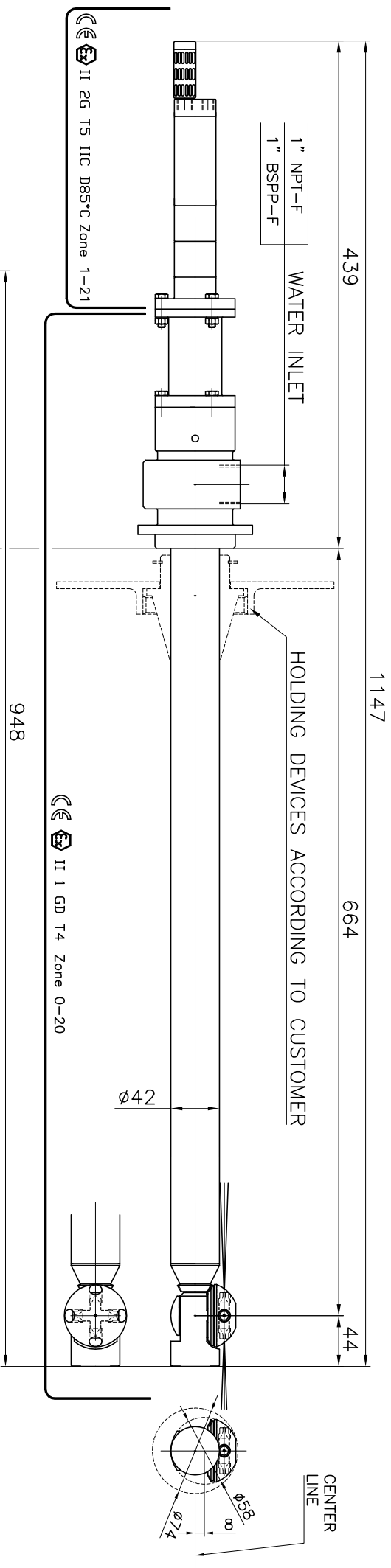


TECHNICAL DATA	
O. RING	EPDM
SLIPPER	PTFE+CARBON FIBER
BUSHING	NICKEL, BRONZE 25%
NOZZLES POSITIONS	2 - 4
NOZZLES SIZE	1/4"NPT
MAX OPERATING FLOW	200 L/min
MAX OPERATING PRESSURE	200 bar
MIN PASS THROUGH HOLE	120 mm ON CENTER LINE
MAX TEMPERATURE	90 °C
MATERIAL	INOX AISI 316
GEARS	FIXED Z=39 ROTATING 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

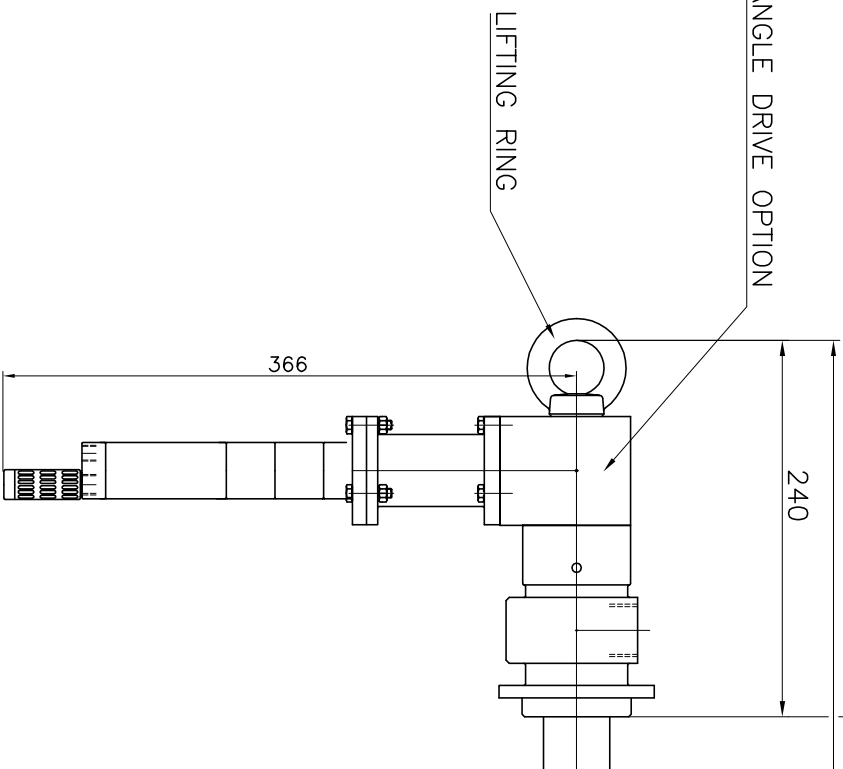
RUGOSITA' (UNI 4600)	MODIFICA	1	2	3	4	5
	FOGLIO	XXXX				
	DATA	XX.XX.XX				
	TOLLERANZE GENERALI classe m UNI-EN 22768/1					
GREZZO	0÷6 6÷30 30÷120120÷400 400÷1000 1000÷2000					
SGROSS. 3.2/∇ = ∅	±0.1 ±0.2		±0.3 ±0.5		±0.8 ±1.2	
	NOTE: file: XB 200PEAB.01 comm					
FINITURA ∇∇ = ∅ ^{1.6/}	MATERIALE: INOX					
RETTIFICA ∇∇∇ = ∅ ^{0.8/}	DESCRIZIONE: XB 200 P INSTALLATION DRAWING					
	CODICE:		 CLEANING HEADS MONTECCHIO E. (RE) - ITALY			
	XB 200P					
	SCALA 1:4					
	A4					
			MOD. O			



MONTECCHIO E. (RE) - ITALY

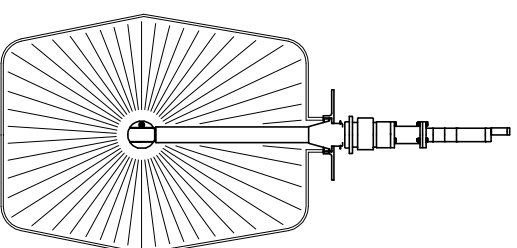



ANGLE DRIVE OPTION

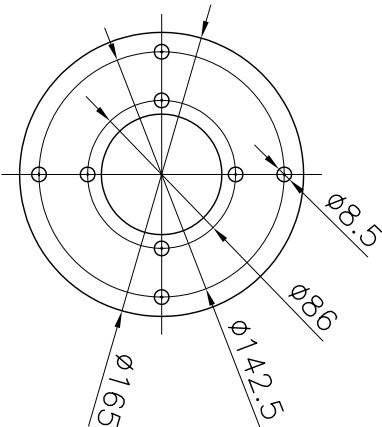
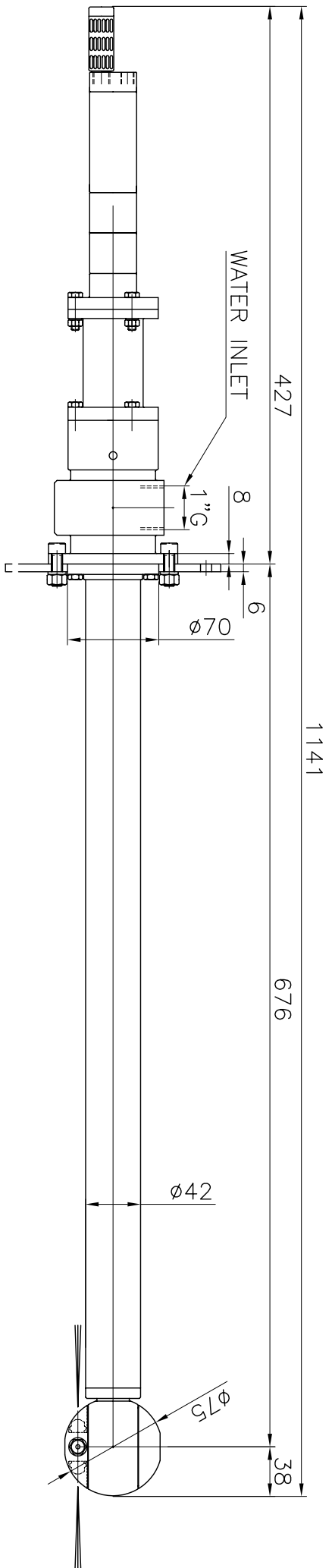


AIR PRESSURE AND CONSUMPTION			
ROTATION SPEED	29 RPM	1 bar	264 L/min. AIR
ROTATION SPEED	42 RPM	2 bar	288 L/min. AIR
ROTATION SPEED	51 RPM	3 bar	300 L/min. AIR
ROTATION SPEED	58 RPM	4 bar	306 L/min. AIR
ROTATION SPEED	62 RPM	5 bar	312 L/min. AIR
ROTATION SPEED	66 RPM	6 bar	324 L/min. AIR

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



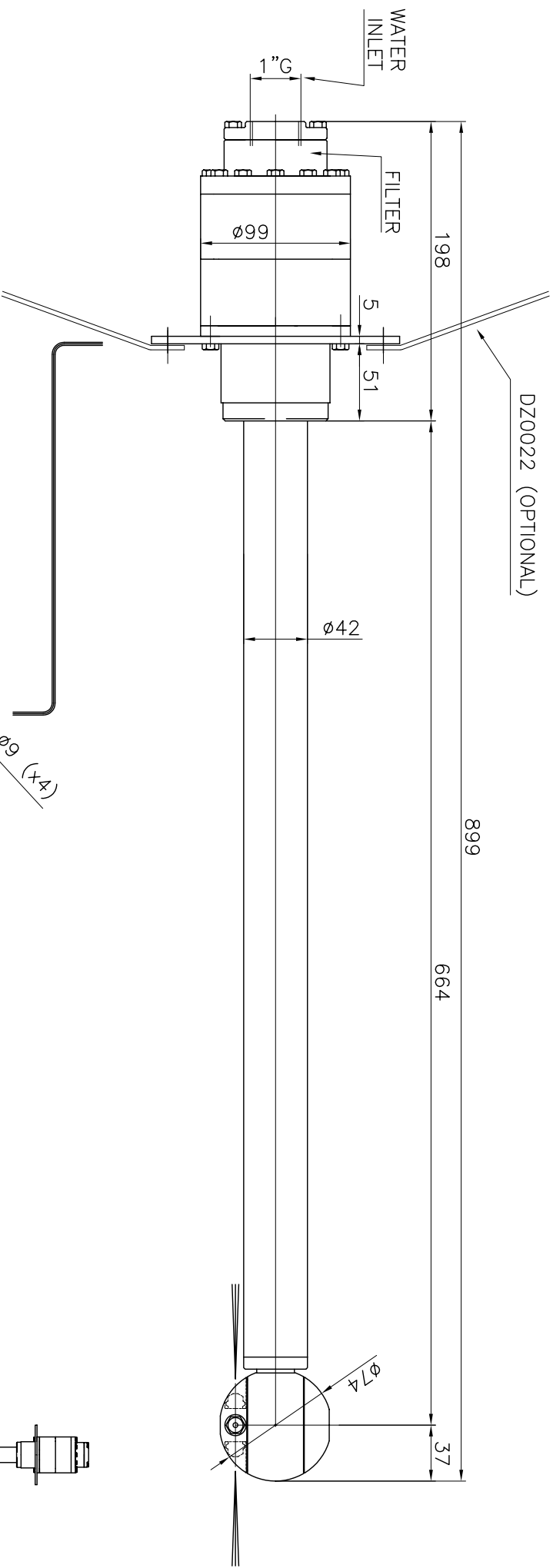
RUGOSITA' (UNI 4600)	MODIFICA	1	2	3	4	5	 CLEANING HEADS MONTECCHIO E. (RE) - ITALY
GREZZO	FOGLIO	XXXX					
~ = Ø	DATA	XX.XX.XX					
SGROSS. 3/2	TOLLERANZE GENERALI close m	UNI-EN 22768/1					
∇ = 3/2	0÷6	6÷30	30÷120	120÷400	400÷1000	1000÷2000	
FINITURA 1,6/	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2	DISEGN.: CR CONTR.: DM DATA: 16.11.11 SCALA 1:4 MOD. A4 O
RETTIFICA 0,8/	NOTE:						
∇∇∇ = ∇	MATERIALE:						
	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								

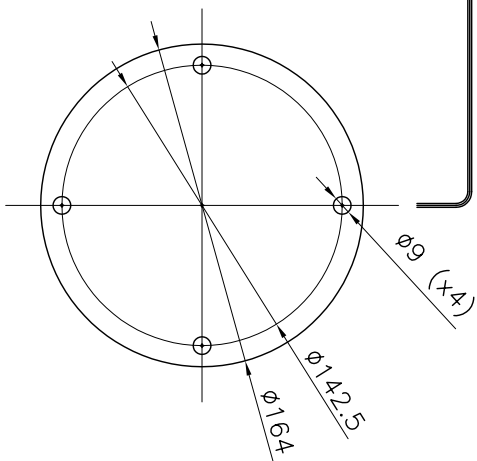
AIR PRESSURE AND CONSUMPTION				
ROTATION SPEED	29 RPM	1 bar	264 L/min.	AIR
ROTATION SPEED	42 RPM	2 bar	288 L/min.	AIR
ROTATION SPEED	51 RPM	3 bar	300 L/min.	AIR
ROTATION SPEED	58 RPM	4 bar	306 L/min.	AIR
ROTATION SPEED	62 RPM	5 bar	312 L/min.	AIR
ROTATION SPEED	66 RPM	6 bar	324 L/min.	AIR

RUGOSITA' (UNI 4600)	MODIFICA				
	FOGLIO	1	2	3	4
GREZZO	XXXX				
	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
FINITURA 1.6/	NOTE:				
	±0.1	±0.2	±0.3	±0.5	±1.2
RETTIFICA 0.8/	MATERIALE: INOX				
	DESCRIZIONE: XB100-P				
VVV = V/	INSTALLATION DRAWING				
	CODICE: XB100-P				
VVV = V/	SCALE 1:4				
	A4				
VVV = V/	MOD.				
	DISIGN.: CR CONTR.: DM				
VVV = V/	DATA: 21.04.09				
	MONTECCHIO E. (RE) - ITALY				
VVV = V/	ATLAS COPCO ATEX BA 723 INOX				
	FESTO SILENCER BP 415 ON MOTOR				
VVV = V/	WEIGHT				
	4.9 KG				

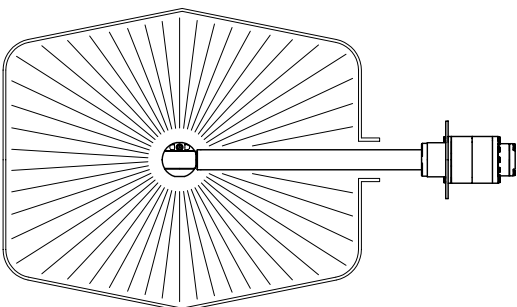


TECHNICAL DATA

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				

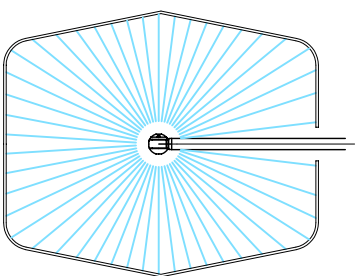
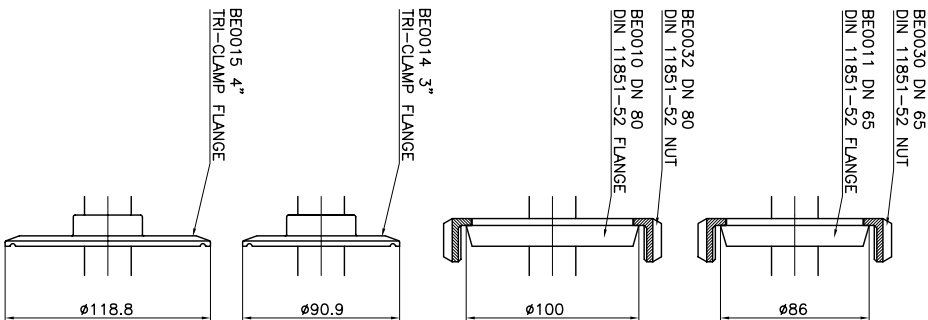
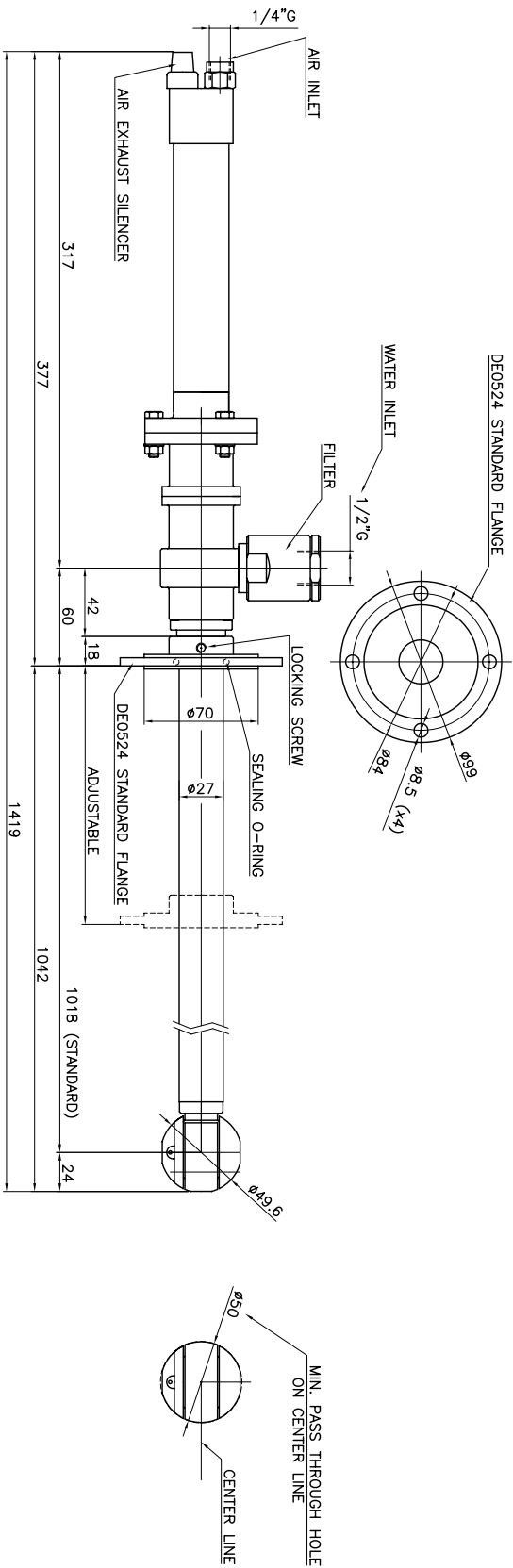


RUGOSITA' (UNI 4600)	MODIFICA	1	2	3	4	5
	FOGLIO	XXXX				
	DATA	XX.XX.XX				
	TOLLERANZE GENERALI classe m UNI-EN 22768/1					
GREZZO	0÷6 6÷30 30÷120 120÷400 400÷1000 1000÷2000					
~ = ø	±0.1 ±0.2 ±0.3 ±0.5 ±0.8 ±1.2					
SGROSS.	±0.1 ±0.2 ±0.3 ±0.5 ±0.8 ±1.2					
▽ = ∇	NOTE:					
FINITURA						
∇∇ = ∇	MATERIALE: INOX					
RETTIFICA						
∇∇∇ = ∇	DESCRIZIONE: XB 100 A INSTALLATION DRAWING					
CODICE:		XB 100 A				
SCALE		1:3	A4	O		
DISIGN.:		CR	CONTR.:	DM		
DATA:		28.04.09				
MOD.						



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			

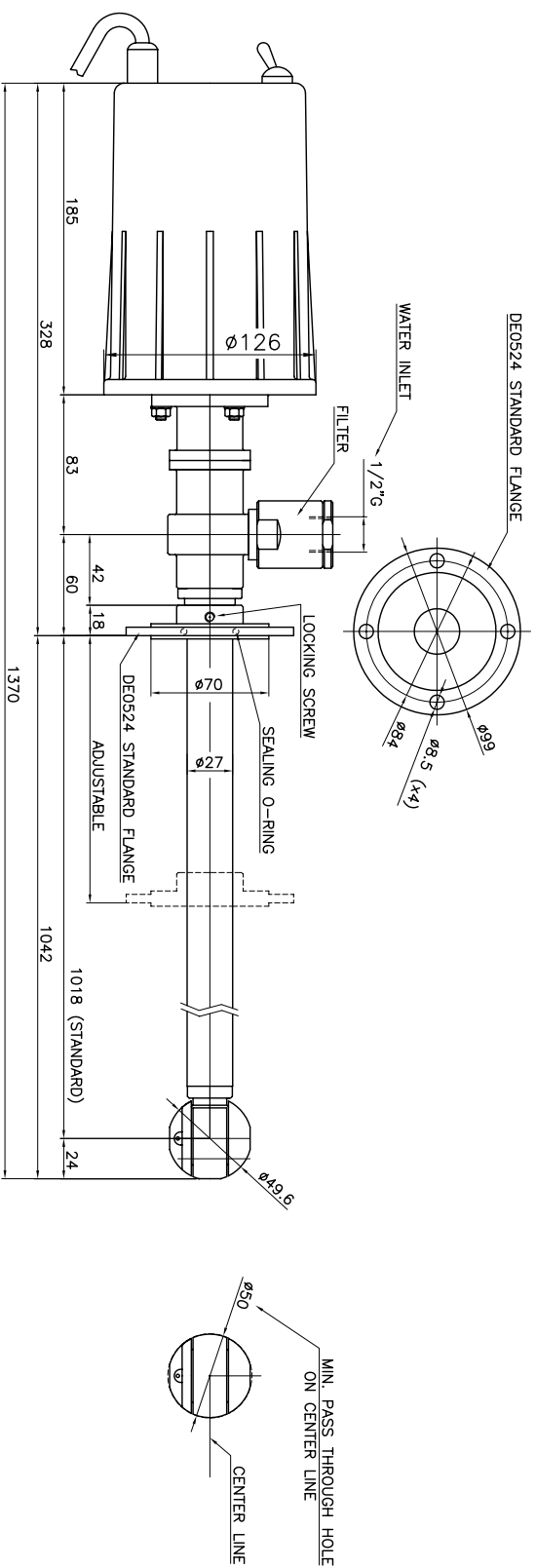
TECHNICAL DATA	
O-RING	NBR – EPDM – VITON
SLIPPER	PTFE+CARBON FIBRE
BUSHING	ALSI 316
FILTER	700 MICRON
NOZZLES POSITIONS	2 – 4
NOZZLES THREAD	SPECIAL XB 060
TESTING NOZZLES	0 x DIA. 00.0
OPERATING FLOW RANGE	0 – 60 L/min
TESTING FLOW	00 L/min
OPERATING PRESSURE RANGE	0 – 200 bar
TESTING PRESSURE	000 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 ML5Z
AIR EXHAUST	WITH SILENCER
ROTATION SPEED	SEE CHART
WEIGHT	7.5 KG



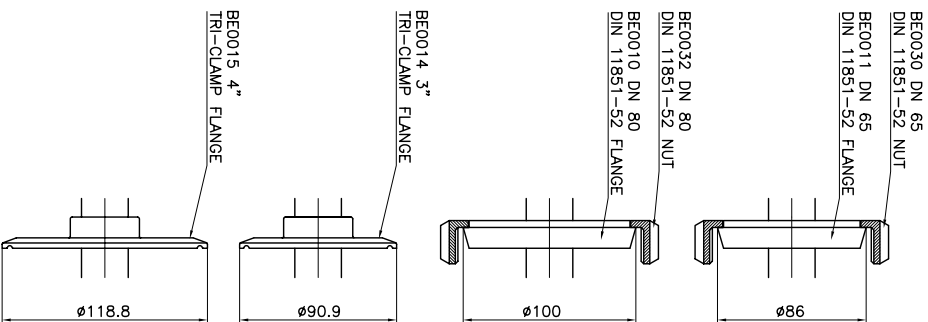
RUGOSITA' (UNI 4600)	MODIFICA	1	2	3	4	5
GREZZO	FOGLIO DATA	XXXX	XX XX XX			
$\sim = \varnothing$	TOLLERANZE GENERALI classe m	UNI-EN 22768/1				
SGROSS. $3.2/\sqrt{\quad}$	0÷6	6÷30	30÷120	120÷400	400÷1000	1000÷2000
$\nabla = \sqrt{\quad}$	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2
FINITURA $1.6/\sqrt{\quad}$	NOTE:					
RETTIFICA $0.8/\sqrt{\quad}$	DESCRIZIONE: XB 061 P APPLICATION DRAWING					
$\nabla \nabla \nabla = \sqrt{\quad}$	SCALA 1:3 A3 0					
	CODICE: XB 061 P					



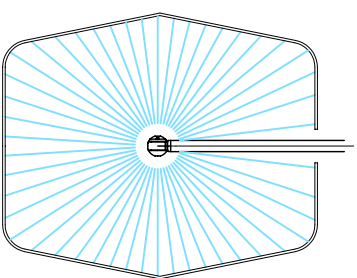
MONTECOHIO E. (RE) – ITALY
DISIGN.: CR I CONTR.: DM
DATA: 06.07.09 MOD.



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
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 E APPLICATION DRAWING						
CODICE: XB 061 E						

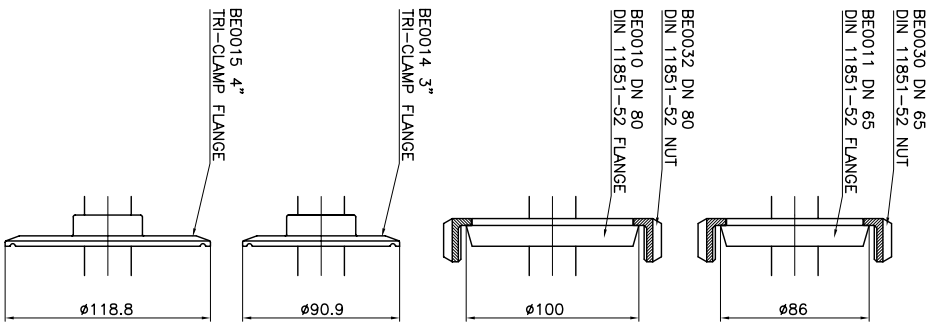
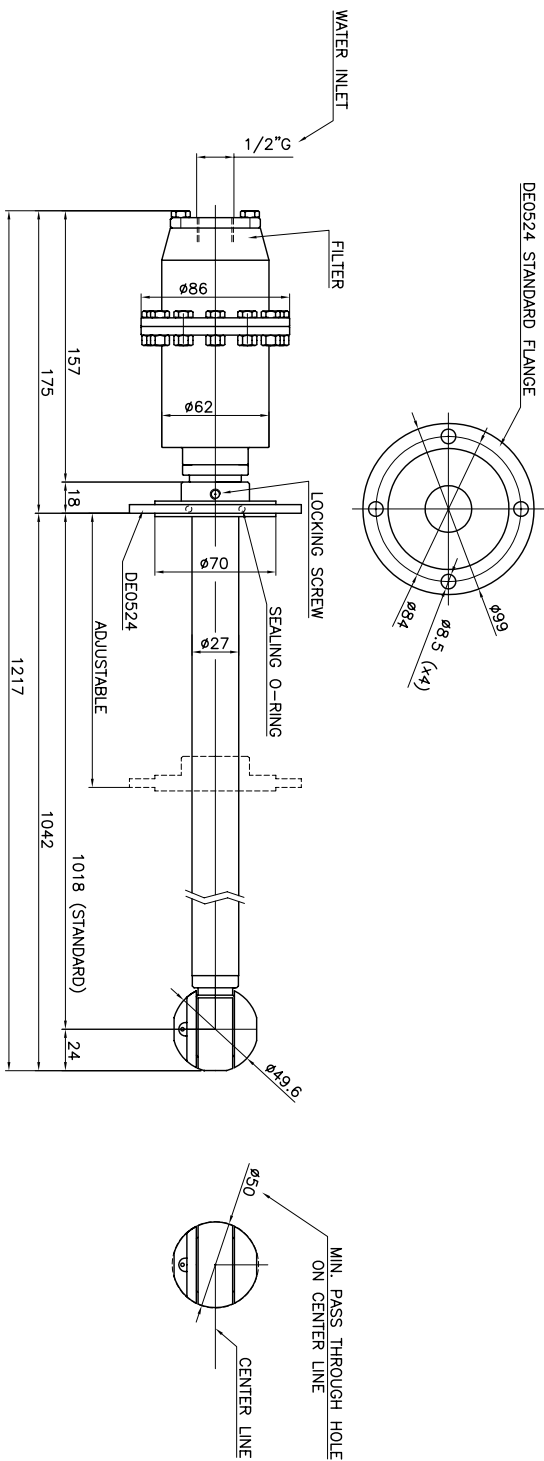


DIFFUSER CODE - HOLES	
10	DF0401 - 6x1.50
15	DF0403 - 12x2.30
20	DF0403 - 12x2.30
25	DF0405 - 12x2.70
30	DF0406 - 12x3.00
35	DF0408 - 12x3.40
40	DF0419 - 18x3.20
45	DF0419 - 18x3.20
50	DF0420 - 18x3.40
55	DF0420 - 18x3.40
60	DF0420 - 18x3.40

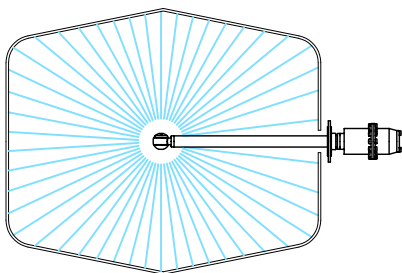
FLOW L/MIN	
10	DF0401 - 6x1.50
15	DF0403 - 12x2.30
20	DF0403 - 12x2.30
25	DF0405 - 12x2.70
30	DF0406 - 12x3.00
35	DF0408 - 12x3.40
40	DF0419 - 18x3.20
45	DF0419 - 18x3.20
50	DF0420 - 18x3.40
55	DF0420 - 18x3.40
60	DF0420 - 18x3.40

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

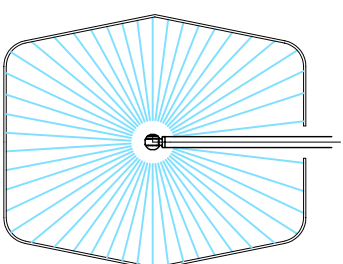
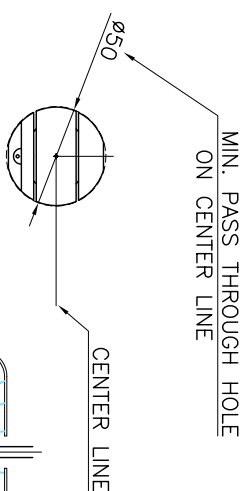
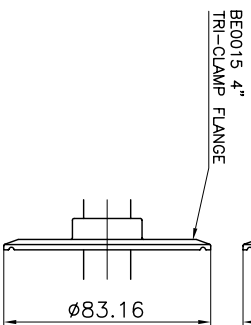
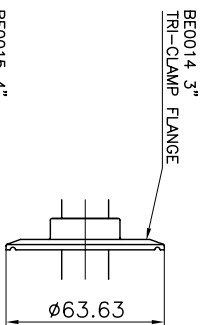
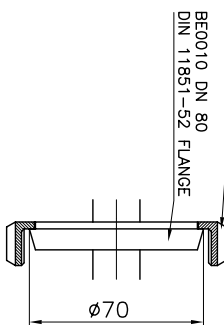
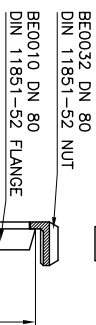
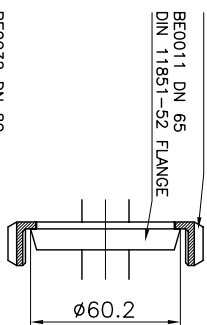
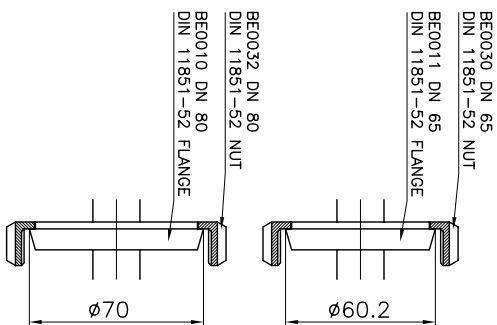
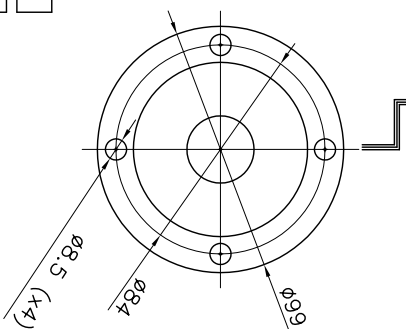
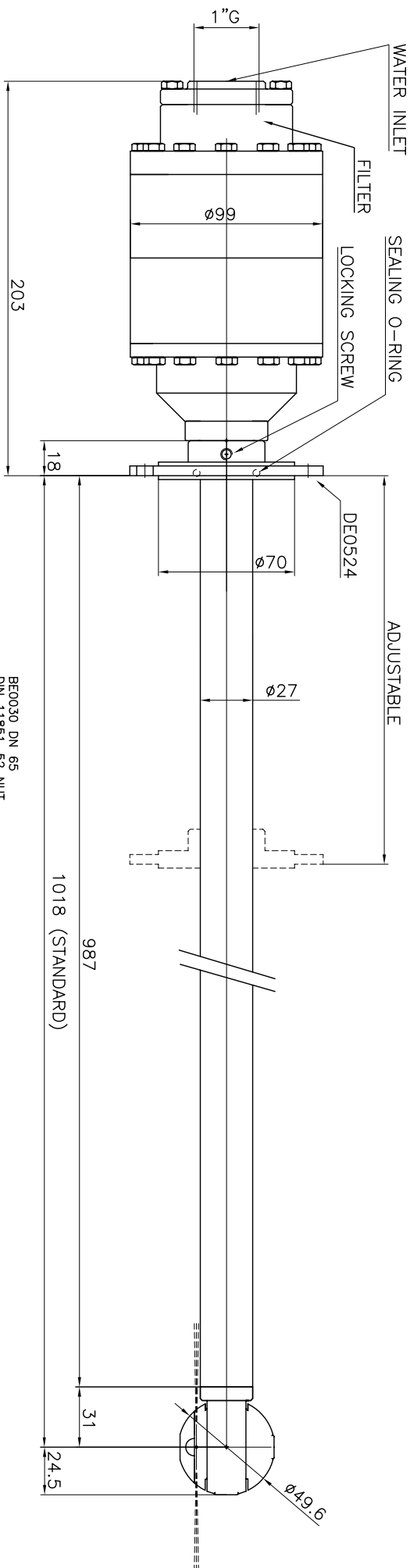


RUGOSITA' (UNI 4600)	MODIFICA	1	2	3	4	5
FOGLIO	XXXX					
GREZZO	DATA	XX.XX.XX				
TOLLERANZE GENERALI classe m UNI-EN 22768/1						
SGROSS. 3/2	0÷6	6÷30	30÷120	120÷400	400÷1000	1000÷2000
NOTE:	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2
FINITURA 1.6						
RETTIFICA 0.8						
DESCRIZIONE: XB 061 A APPLICATION DRAWING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



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

SCALE 1:3 A3 O

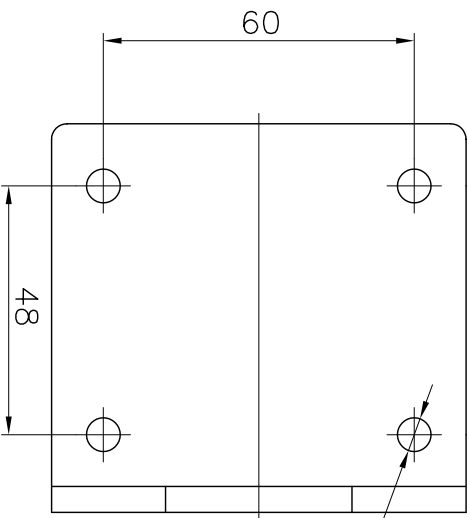
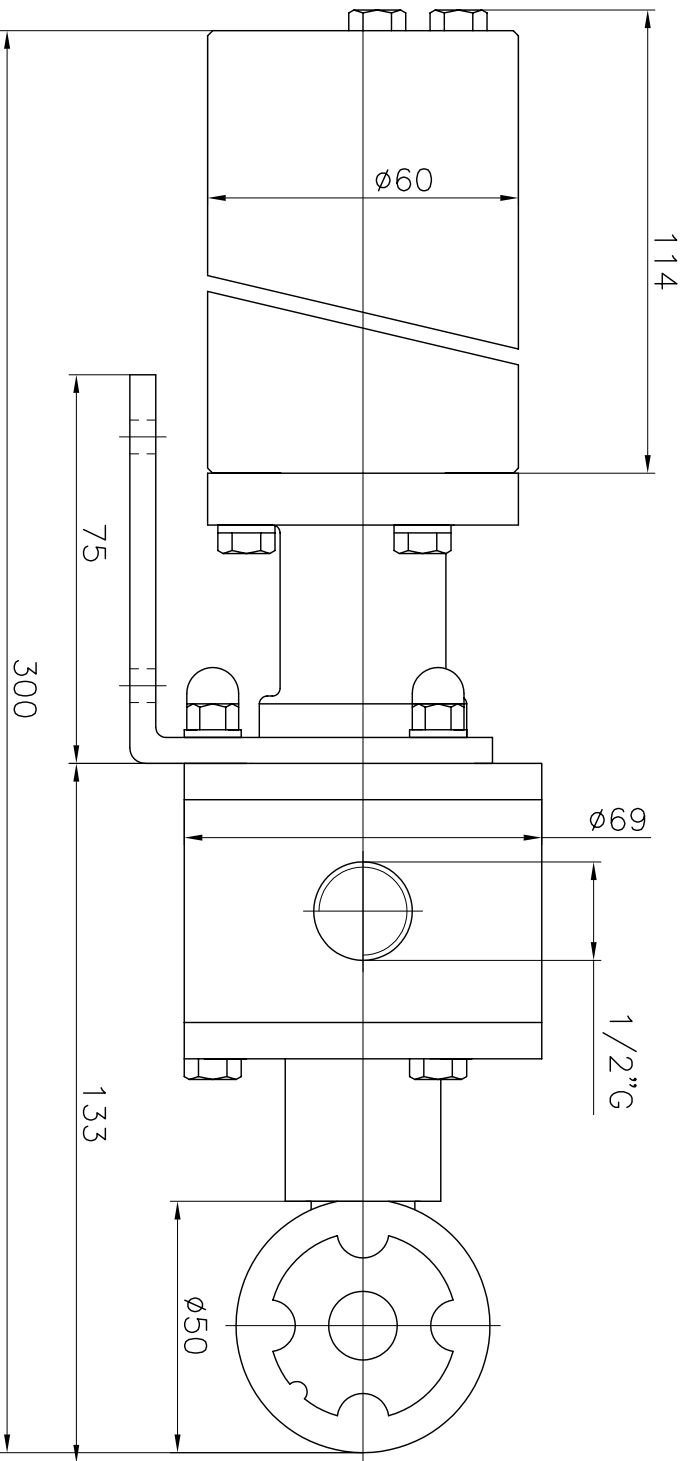


TECHNICAL DATA	
O.RING	NBR - EPDM - VITON
SLIPPER	PTFE+CARBON FIBRE
FILTER	700 MICRON
NOZZLES POSITIONS	2/4
NOZZLES TYPE	SPECIAL NOZZLE XB060
OPERATING FLOW MAX	60 L/min
OPERATING PRESSURE MAX	200 bar
MAX OPERATING TEMPERATURE	90 °C
MATERIAL	INOX AISI 316
CONICAL GEARS	FIXED Z=23 ROTATING Z=25
MODULE	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
NOTE:						
FINITURA	DESCRIZIONE:	APPLICATION DRAWING				
RETIFICA	XB 061 AAH					
VVV = 0.8/						

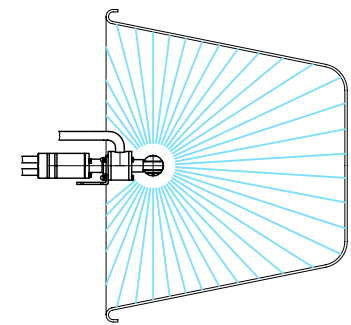


DISIGN.: CR	CONTR.: DM
DATA: 18.12.06	MOD.
SCALE	
1:3	A4
	O
CODICE:	
XB 061AAH	



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

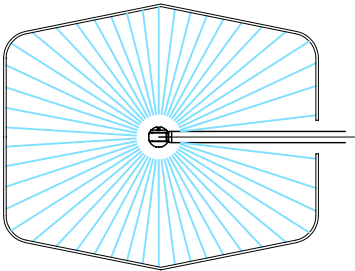
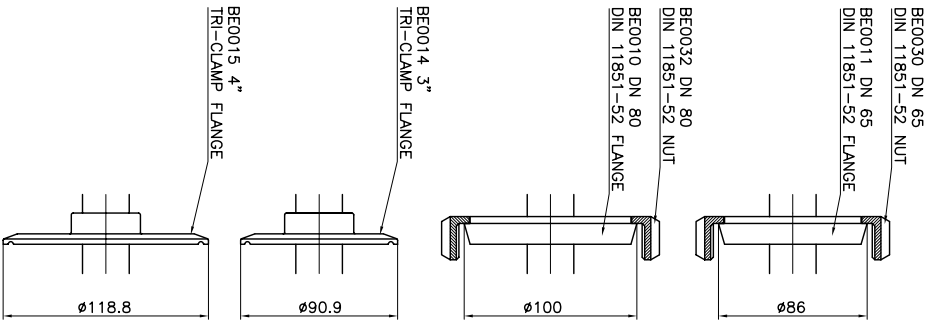
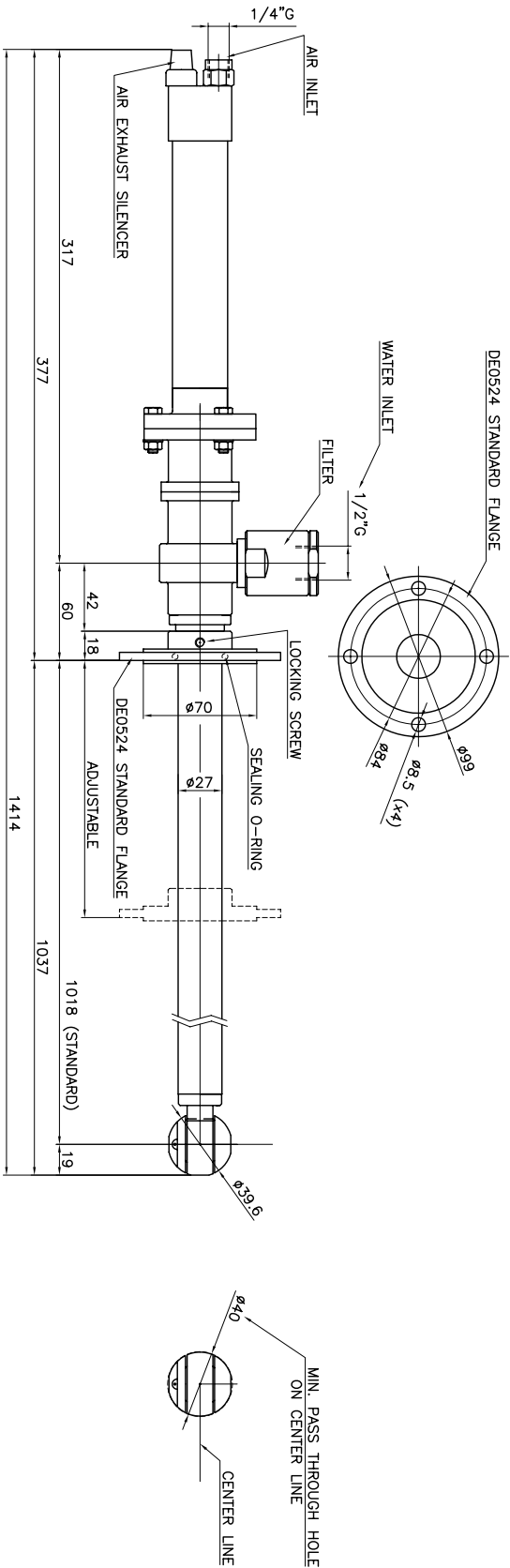
flanging: lateral or coaxial
materials: stainless steel 316
motor: hydraulic
flow max: 60 l/min
pressure max: 200 bar
temperature max: 90°C
seals: nbr
nozzle holder: 2-4 holes



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
GREZZO	~ = \varnothing	± 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/					
DESCRIZIONE: APPLICATION DRAWING						
CODICE:						
1:1	A3					
MOD.						
MONTECCHIO E. (RE) - ITALY						
DISIGN.: SN	CONTR.: DM					
DATA: 01.01.05						
SCALA						
1:1	A3					
MOD.						
CODICE:						
XB 060HY						

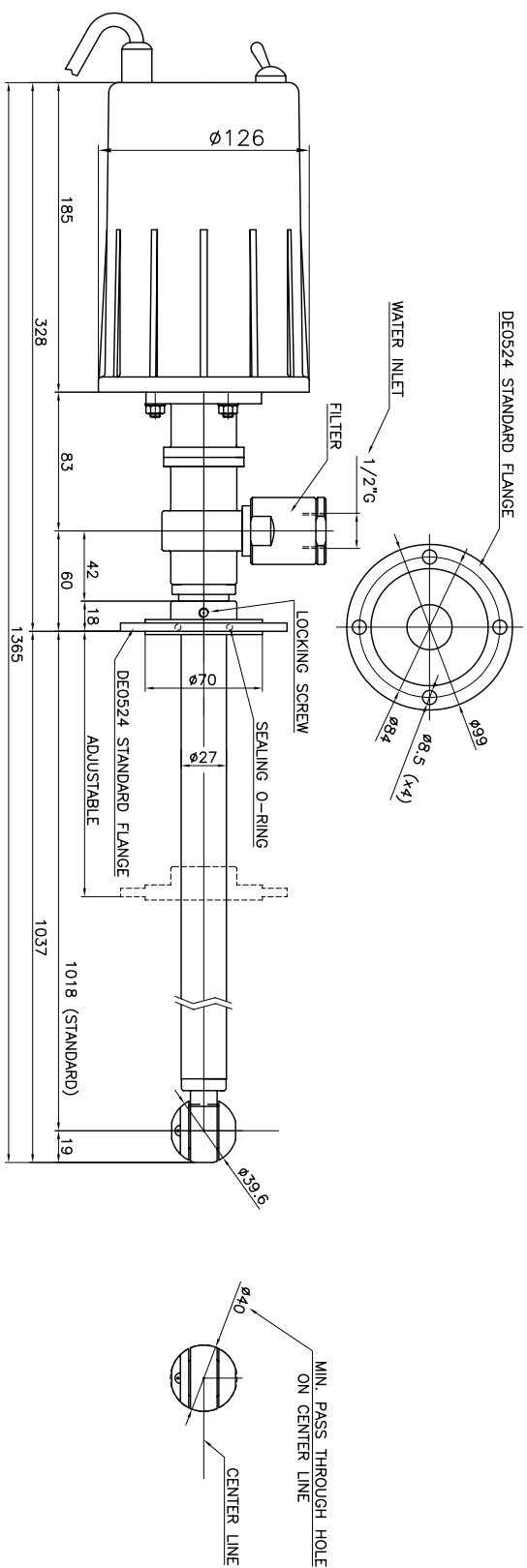
ROTATION SPEED AIR PRESSURE AND CONSUMPTION					
19 RPM	1 bar	155 L/min			
28 RPM	2 bar	230 L/min			
33 RPM	3 bar	275 L/min			
37 RPM	4 bar	320 L/min			
40 RPM	5 bar	360 L/min			
51 RPM	6 bar	395 L/min			

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

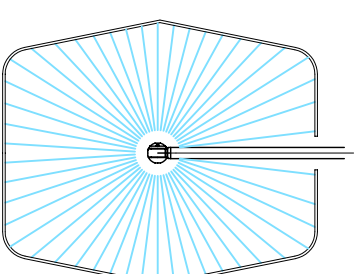
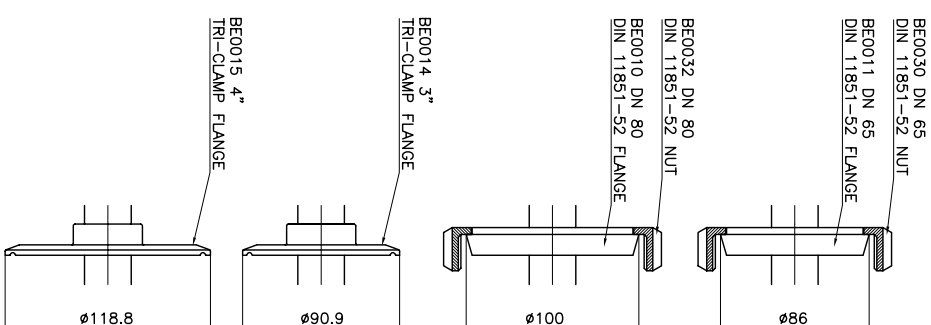


RUGOSITA' (UNI 4600)	MODIFICA	1	2	3	4	5
GREZZO	FOGLIO	XXXX				
~ = Ø	DATA	XX.XX.XX				
SGROSS. 3.2/	TOLLERANZE GENERALI classe m	UNI-EN 22768/1				
∇ = 3.2/	0÷6	6÷30	30÷120	120÷400	400÷1000	1000÷2000
FINITURA 1.6/	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2
RETIFICA 0.8/	NOTE:					
∇∇ = 1.6/	DESCRIZIONE:	XB 031 P APPLICATION DRAWING				
∇∇∇ = 0.8/	SCALA	1:3 A3 0				
	CODICE:	XB 031 P				
	DISIGN.: CR I CONTR.: DM					
	DATA: 06.07.09					
	MOD.					



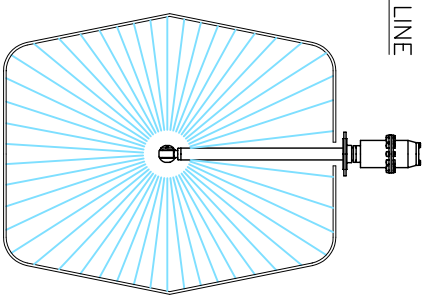
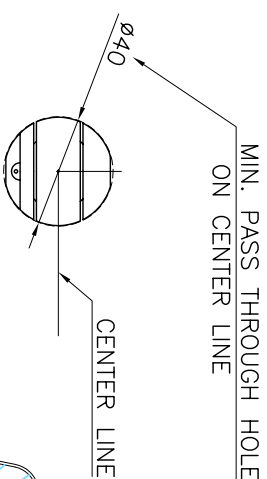
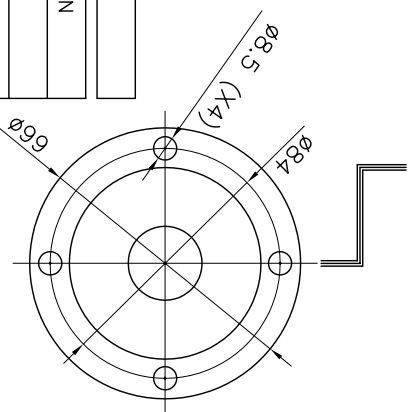
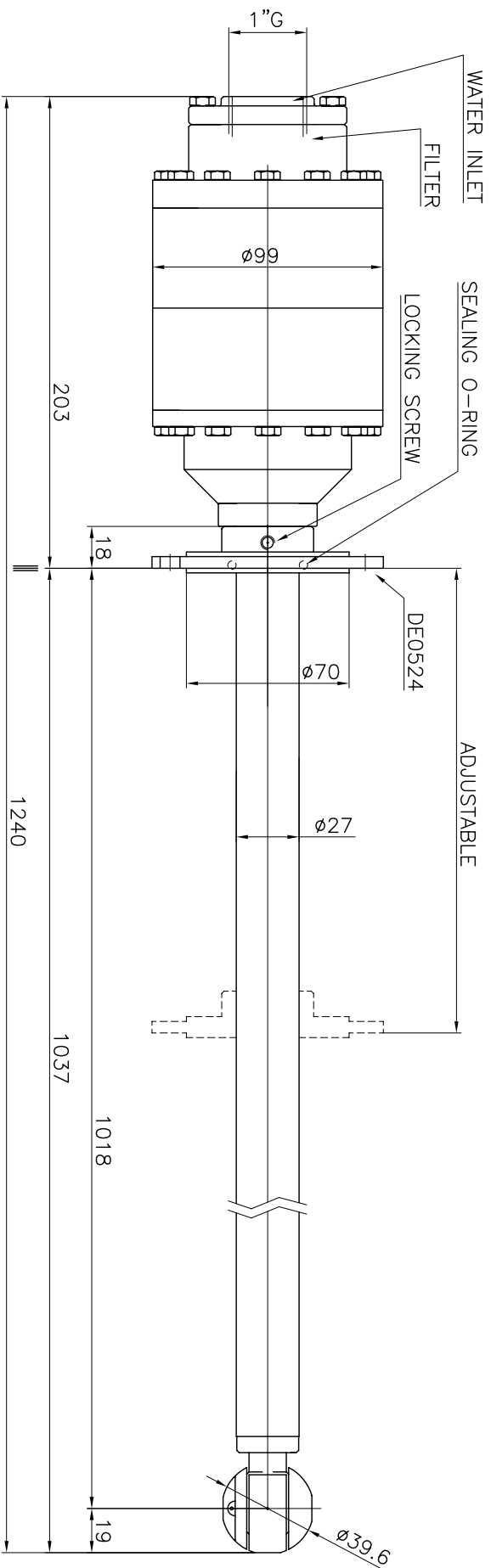


TECHNICAL DATA	
O-RING	NBR – EPDM – VITON
SLIPPER	PTFE+CARBON FIBRE
BUSHING	ALSI 316
FILTER	700 MICRON
NOZZLES POSITIONS	2 – 4
NOZZLES THREAD	SPECIAL XB 030
TESTING NOZZLES	0 x DIA. 00.0
OPERATING FLOW RANGE	0 – 30 L/min
TESTING FLOW	00 L/min
OPERATING PRESSURE RANGE	0 – 200 bar
TESTING PRESSURE	000 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

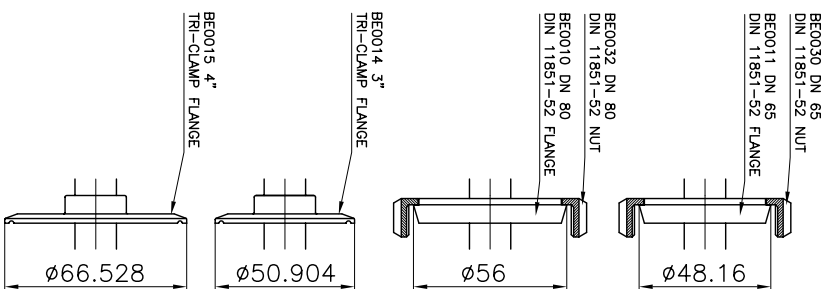


RUGOSITA' (UNI 4600)	MODIFICA	1	2	3	4	5
GREZZO	FOGLIO DATA	XXXX	XX XX XX			
$\sim = \varnothing$	TOLLERANZE GENERALI classe m	UNI-EN 22768/1				
SGROSS. $\frac{3}{2}$	0÷6	6÷30	30÷120	120÷400	400÷1000	1000÷2000
$\nabla = \frac{3}{2}$	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2
FINITURA $\frac{1}{8}$	NOTE:					
$\nabla \nabla = \frac{1}{8}$	DESCRIZIONE: XB 031 E					
RETTIFICA $\frac{0.8}{\sqrt{}}$	APPLICATION DRAWING					
	SCALA	1:3	A3	O	CODICE: XB 031 E	
	DATA: 06.07.09				MOD.	
					DISIGN.: CR I CONTR.: DM	

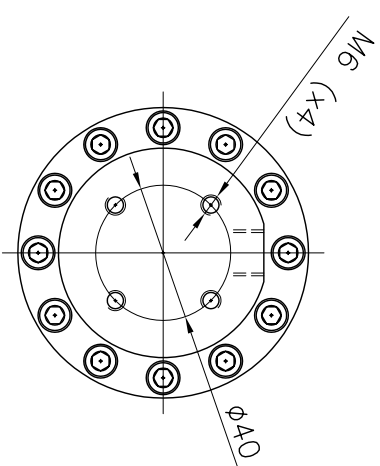
Bonomi
CLEANING HEADS
MONTECCHIO E. (RE) - ITALY




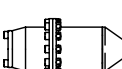
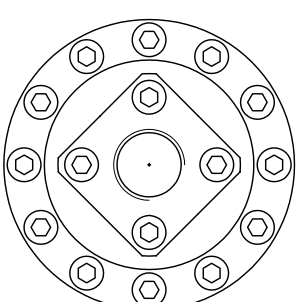
TECHNICAL DATA	
O.RING	NBR – EPDM – VITON
SLIPPER	PTFE+CARBON FIBRE
FILTER	700 MICRON
NOZZLES POSITIONS	2 – 4
NOZZLES TYPE	SPECIAL XB 030
MAX OPERATING FLOW	30 L/min
MAX OPERATING PRESSURE	200 bar
MAX OPERATING TEMPERATURE	90 °C
MATERIAL	INOX AISI 304
CONICAL GEARS	FIXED Z=23 ROTATING Z=25
MODULE	1
COMPLETE 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				
SGROSS: 1/2	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2
NOTE:						
FINITURA 1/8						
RETTIFICA						
DESCRIZIONE: APPLICATION DRAWING						
XB 031 AAH						
COODICE: XB 031 AAH						
SCALE: 1:3						
DATA: 18.05.09						
DISIGN.: CR1 CONTR.: DM						
MONTECHIO E. (RE) - ITALY						
MOD.						
A4						
O						




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/						
∇∇∇ =	∇						
<div> CLEANING HEADS MONTECCHIO E. (RE) - ITALY</div>							
DISEGN.: CR		CONTR.: DM					
DATA: 27.08.08				MOD.			
SCALA		1:2		A4		O	
CODICE: XB 031AAE_BQ.01							

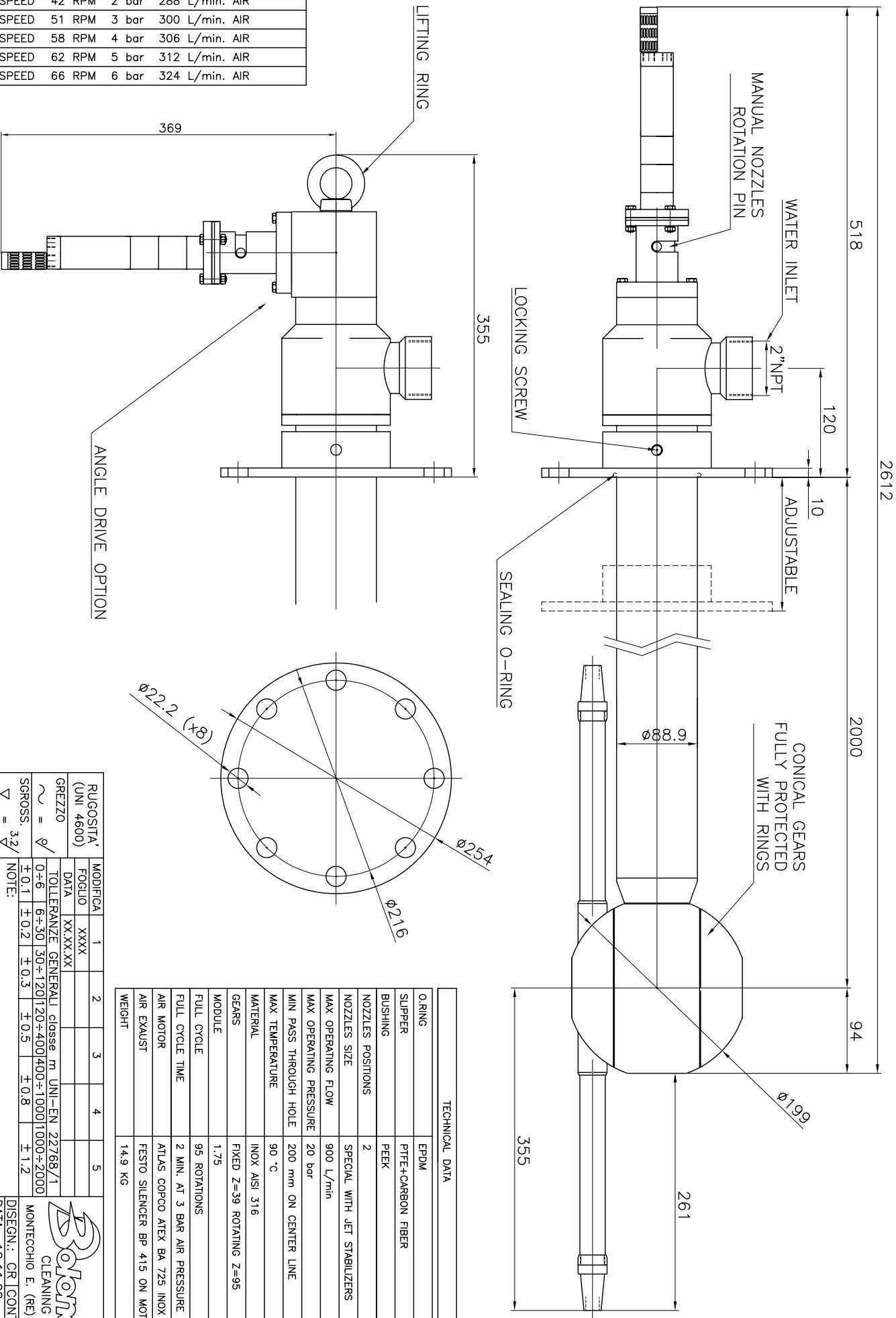


O.RING	EPDM
SLIPPER	PTFE+CARBON FIBRE
FILTER	NONE
NOZZLES POSITIONS	2 OR 4
NOZZLES TYPE	SPECIAL NOZZLE XB 030
MAX OPERATING FLOW	30 L/min – 8 USG/min
MAX OPERATING PRESSURE	150 bar – 2100 psi
MAX OPERATING TEMPERATURE	90 °C – 194°F
MATERIAL	INOX AISI 316
LUBRICANTS	NONE
CONICAL GEARS	FIXED Z=23 ROTATING 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					
	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/						
RETTIFICA						
▽▽▽ = 0.8/						
▽						

		
CLEANING HEADS		
MONTECCHIO E. (RE) - ITALY		
DESIGN.: CR	CONTR.: DM	
DATA: 19.12.08		
SCALA		
1:2	A4	O
CODICE:		
XB 031AAD_BQ 01		

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				
~ = ∅	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
RETTIFICA 0.8/	NOTE:					
∇∇∇ = ∇	MATERIALE:	INOX				
	DESCRIZIONE:	XB 900P S1				
	INSTALLATION	DRAWING				
	CODICE:	XB 900P				
	SCALA	1:4	A4	O		
	DATA:	12.11.08				
	DISIGN:	CR	CONTR:	DM		
	MOD.					



CLEANING HEADS

MONTECOHO E. (RE) - ITALY

DISIGN: CR CONTR: DM

DATA: 12.11.08

SCALA

MOD.

CODICE:

XB 900P

1:4

A4

O

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

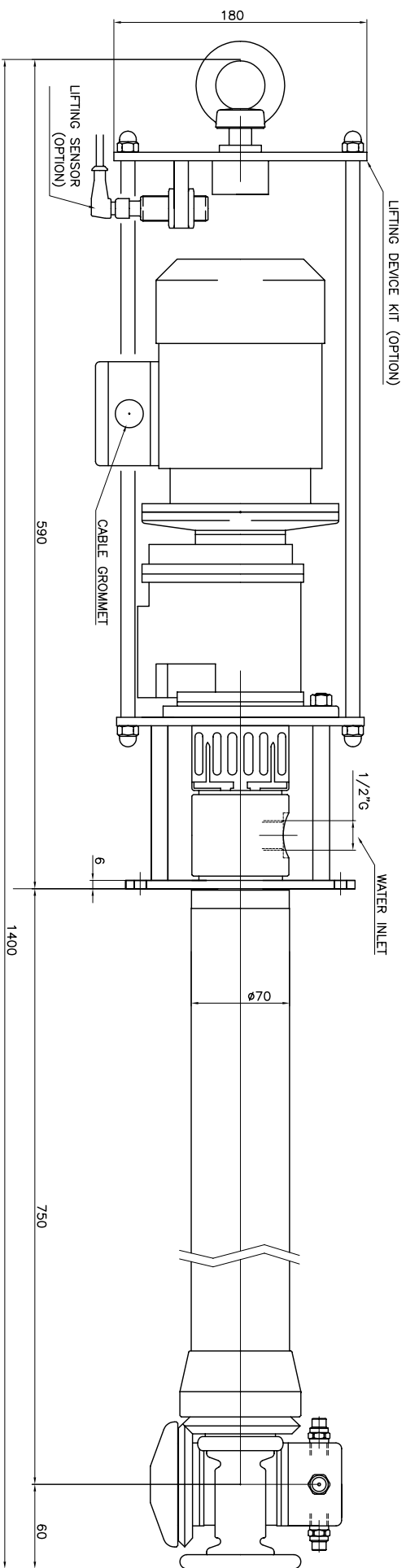


Disponibili in diverse lunghezze fino ad un max. di 6mt; disponibili anche versioni speciali per lavaggio settoriale

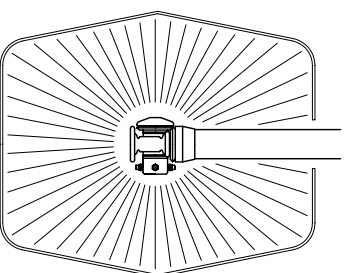
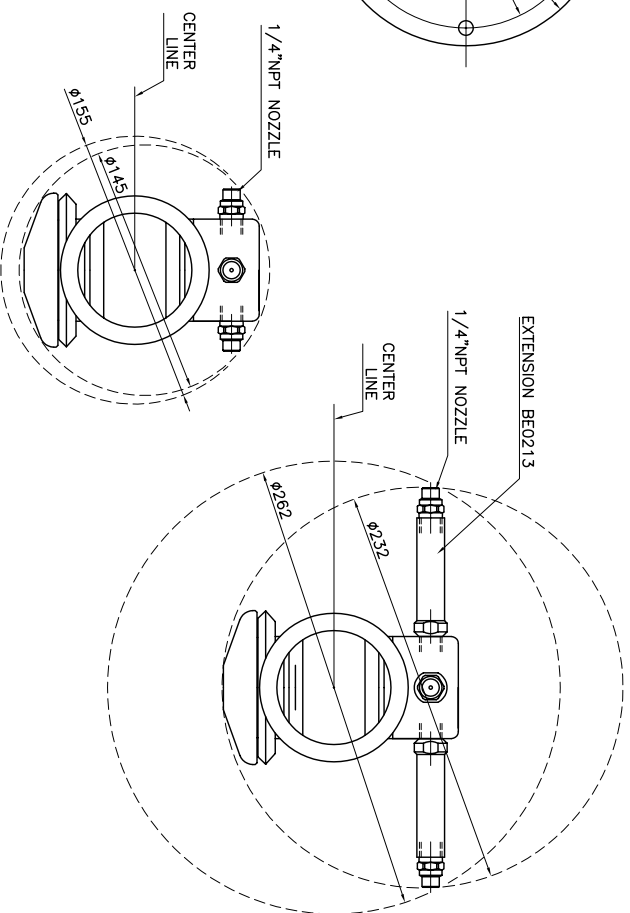
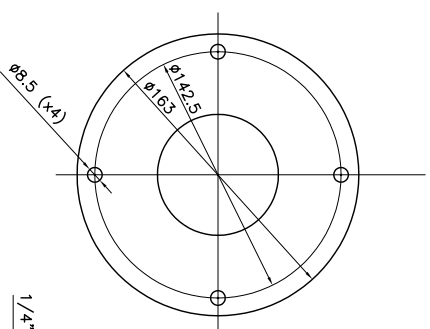
Available in different length till a max. of 6mt; available also special version for sector cleaning



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

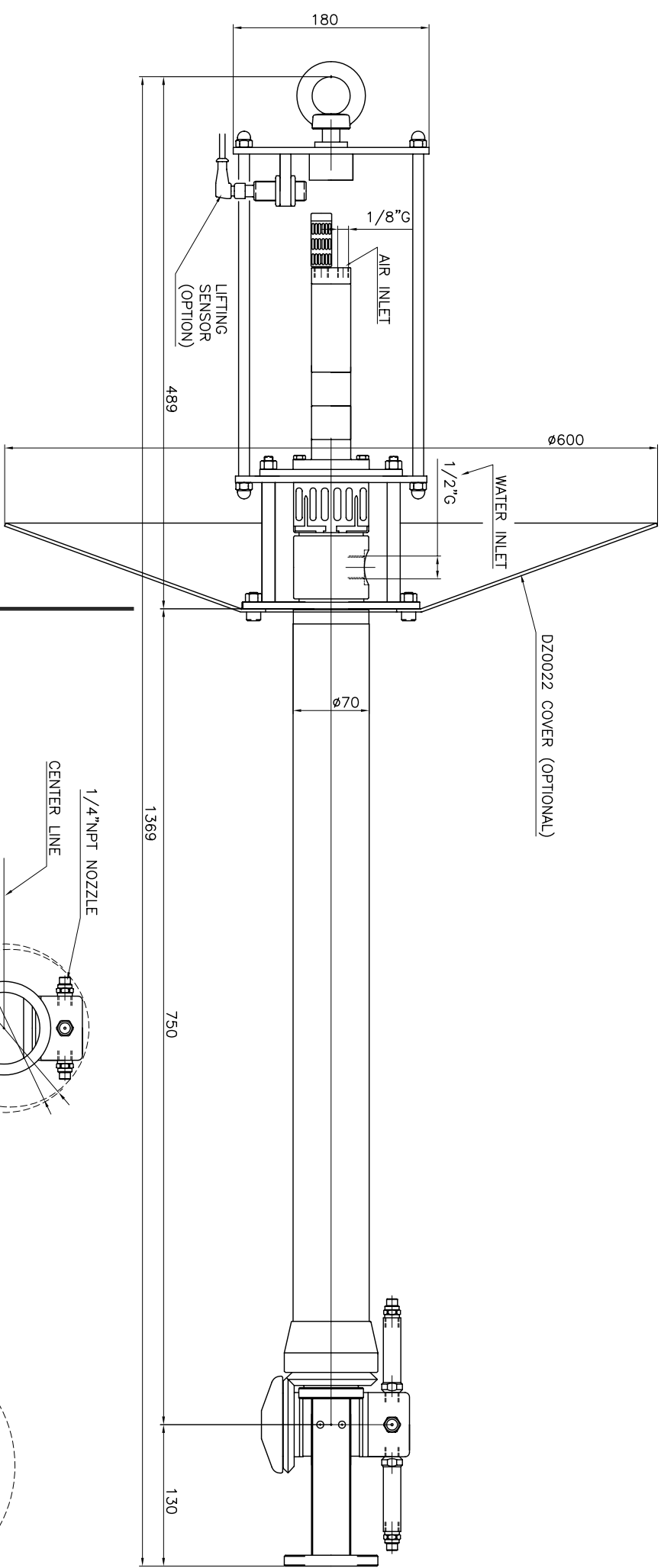


RUGOSITA' (UNI 4600)	MODIFICA	1	2	3	4	5
GREZZO	FOGLIO	XXXX				
~ = Ø	DATA	XX.XX.XX				
SGROSS. 3/2	TOLLERANZE GENERALI classe m	UNI-EN 22768/1				
∇ = 3/2	0÷6	6÷30 30÷120 120÷400 400÷1000 1000÷2000				
NOTE:	±0.1	±0.2 ±0.3 ±0.5 ±0.8 ±1.2				
FINITURA 1.6/	DESCRIZIONE:	XC 200 E APPLICATION DRAWING			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

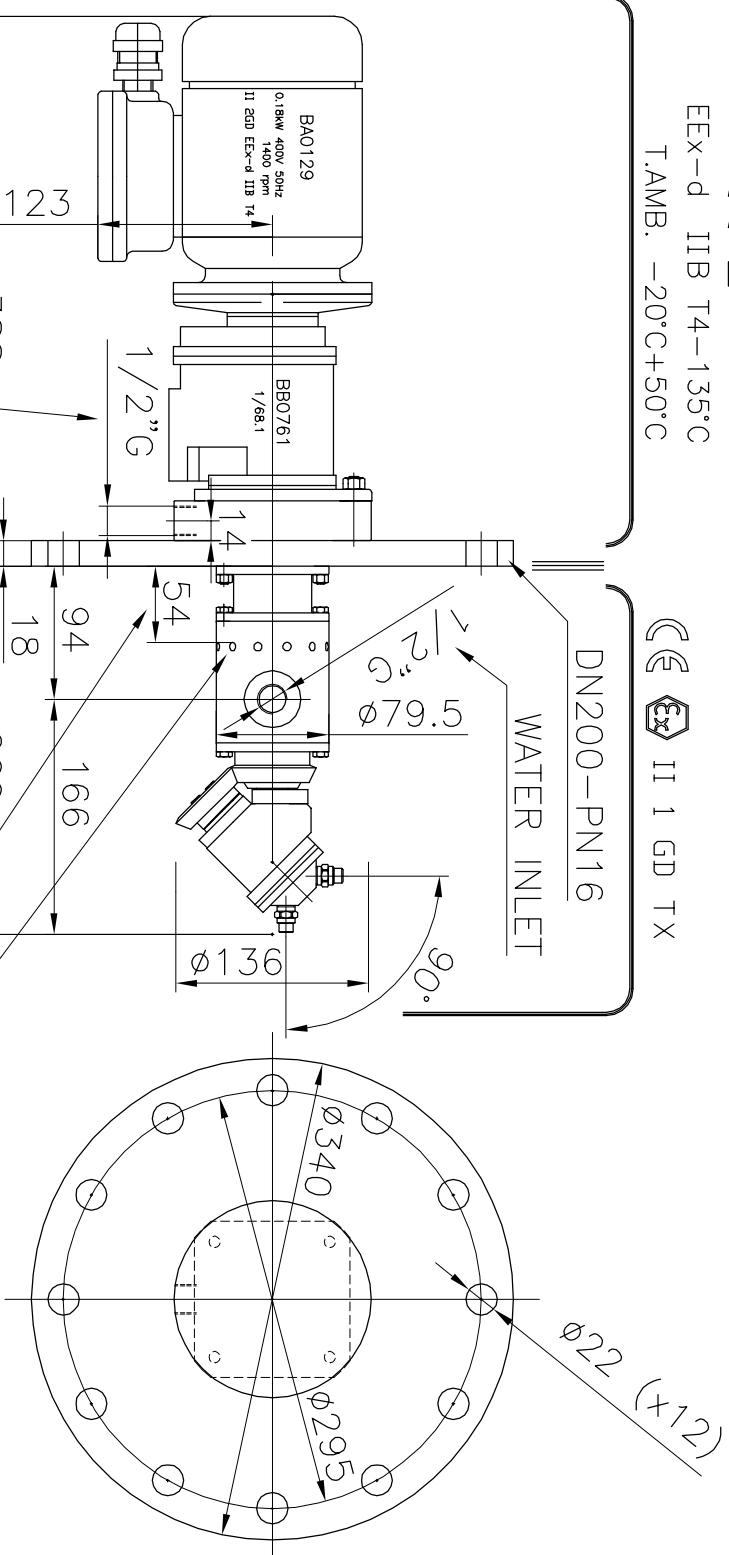
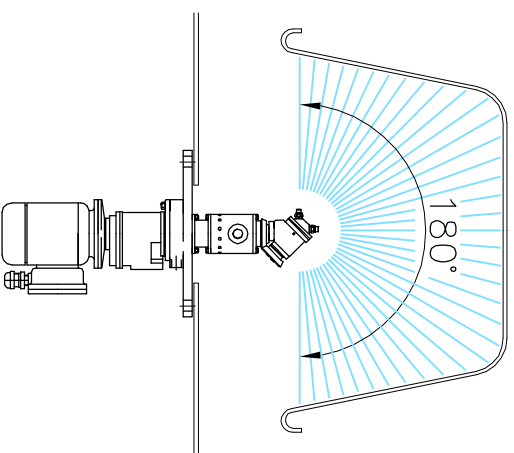


MONTECOLO E. (RE) - ITALY
DISEGN.: CR CONTR.: DM
DATA: 27.11.08
MOD.:
SCALA: 1:3 A3 0

CE II 2 GD


EEx-d IIB T4-135°C
T.AMB. -20°C+50°C

CE II 1 GD TX

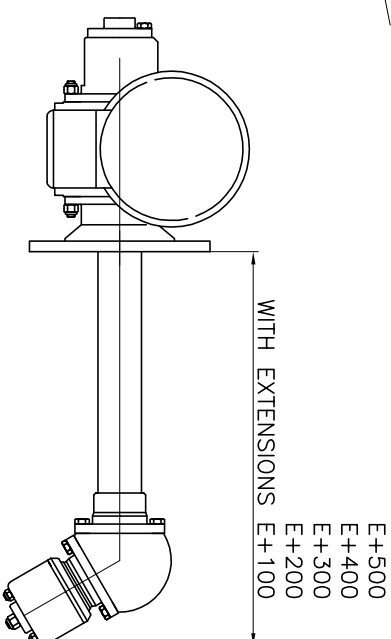
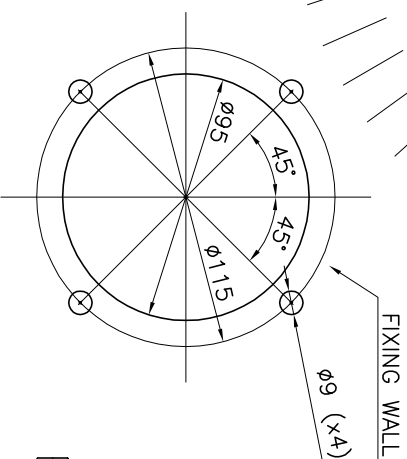
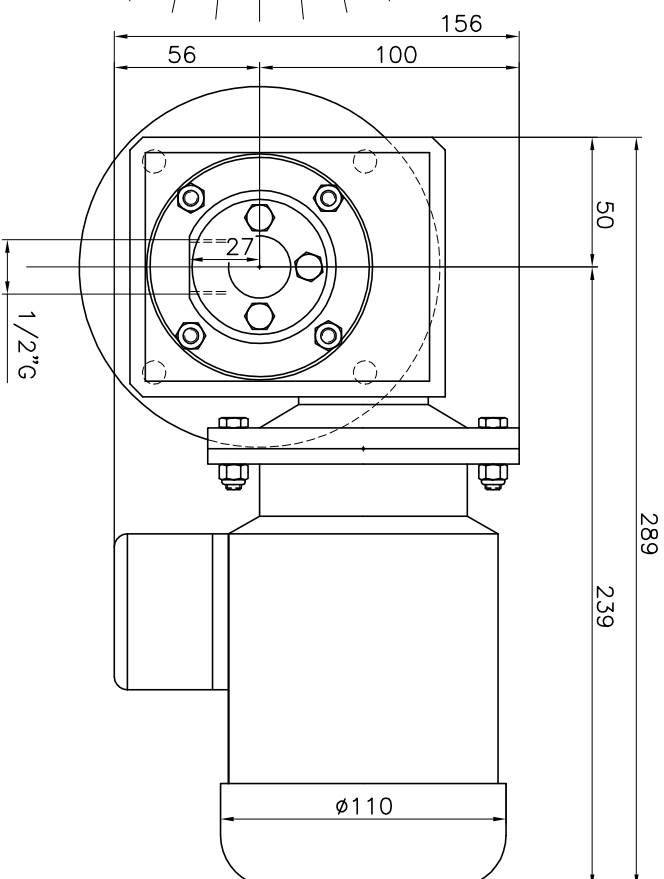
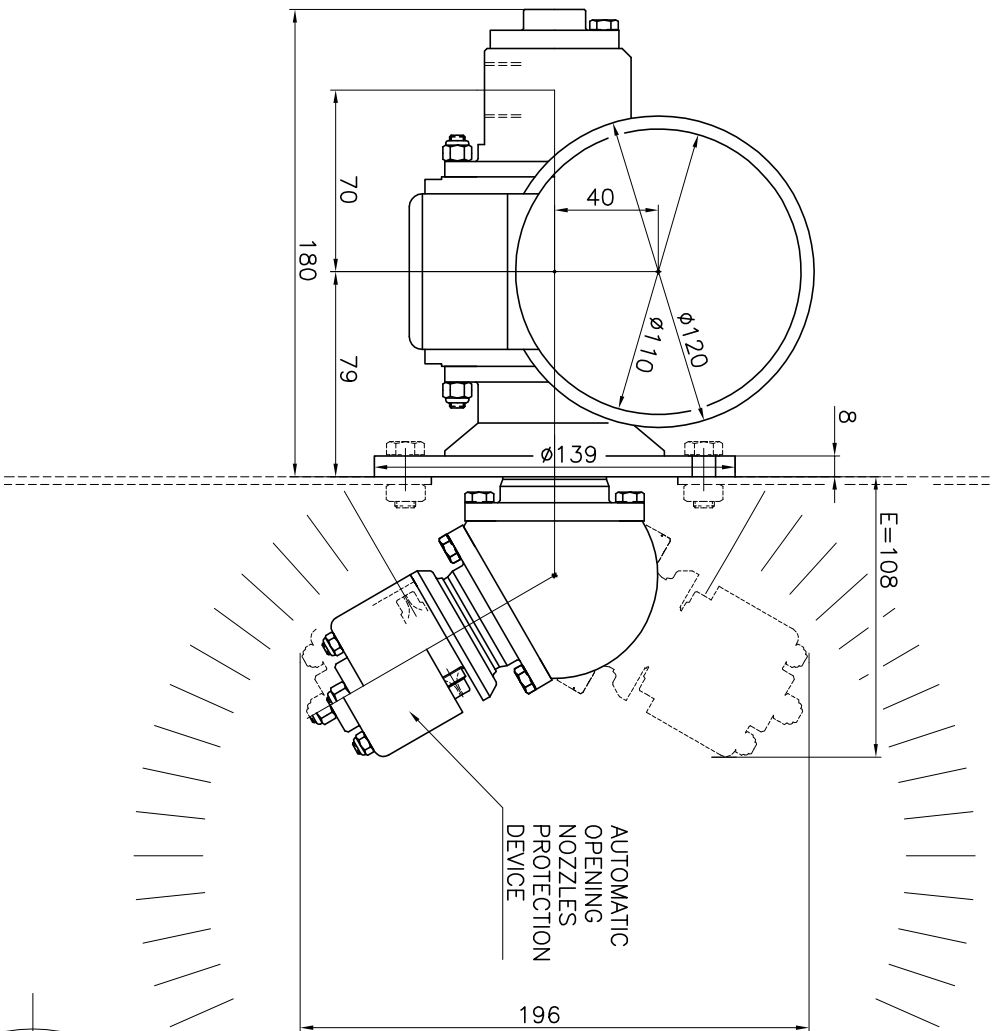


TECHNICAL DATA

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

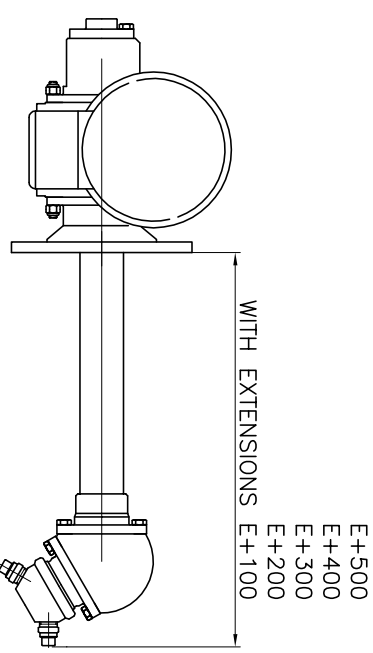
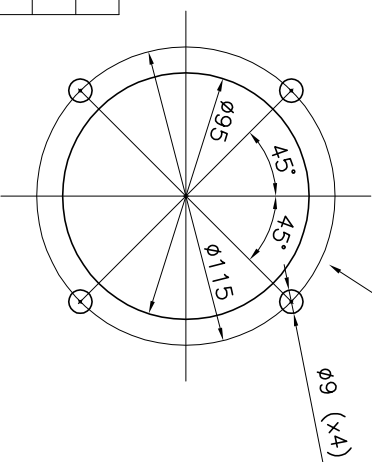
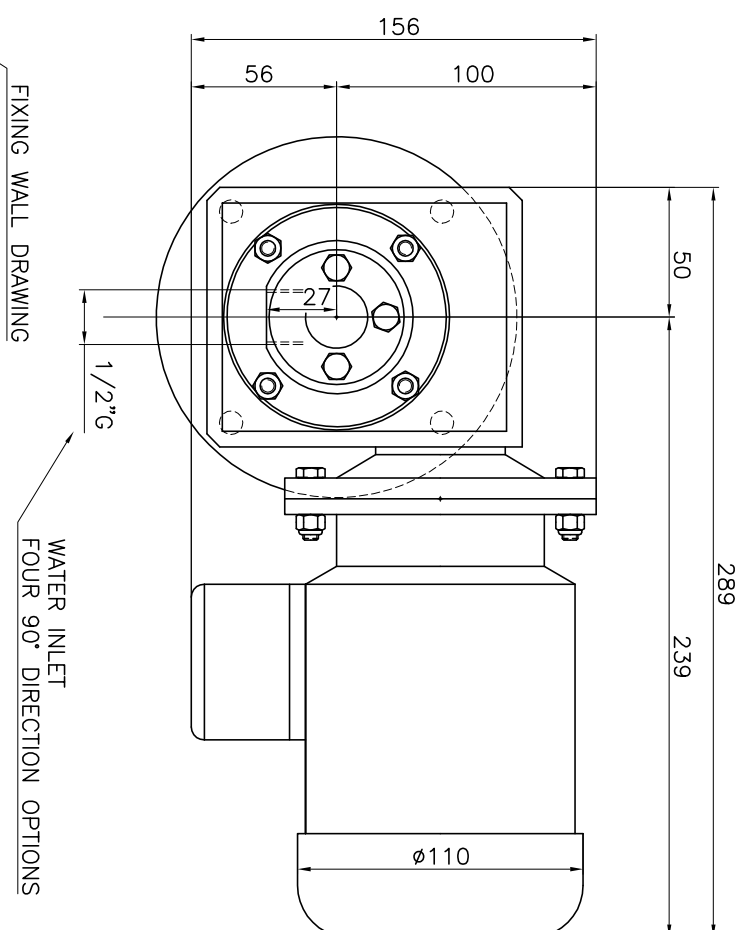
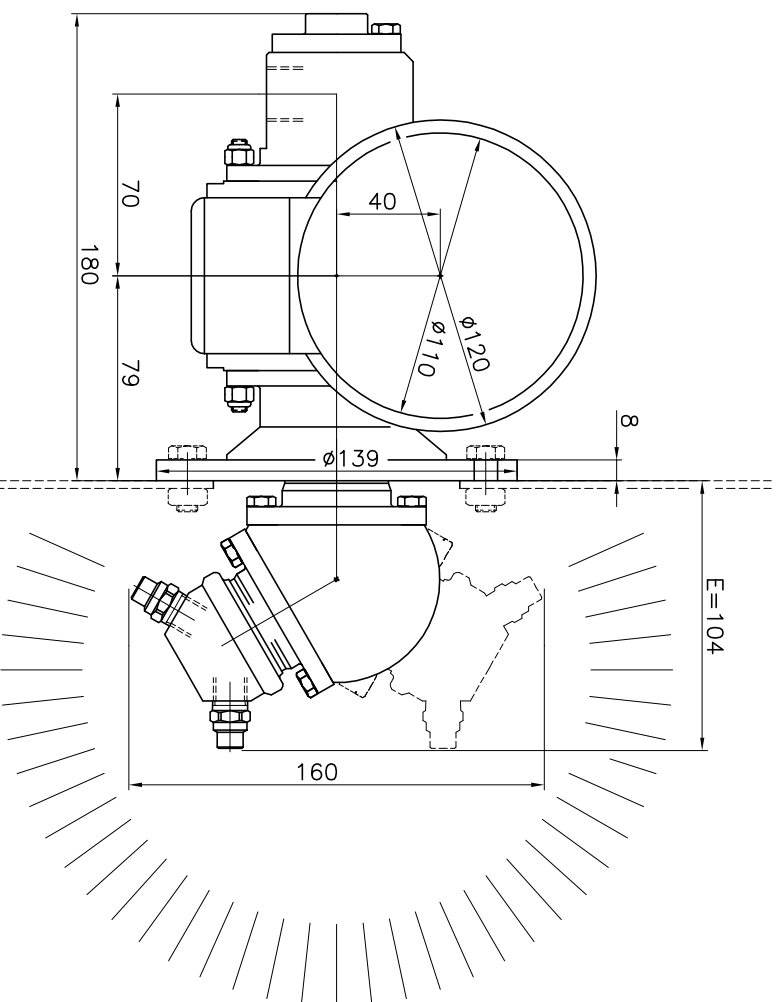
RUGOSITA' (UNI 4600)	MODIFICA	1	2	3	4	5	 CLEANING HEADS MONTECCHIO E. (RE) - ITALY
	FOGLIO						
	DATA						
	TOLLERANZE GENERALI classe m UNI-EN 22768/1						
GREZZO	0 ÷ 6 6 ÷ 30 30 ÷ 120 120 ÷ 400 400 ÷ 1000 1000 ÷ 2000						
~ = √	± 0.1	± 0.2	± 0.3	± 0.5	± 0.8	± 1.2	
SGROSS. 3.2/√	NOTE:						
▽ =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

file: XC 150_180°FR-EEN cm1



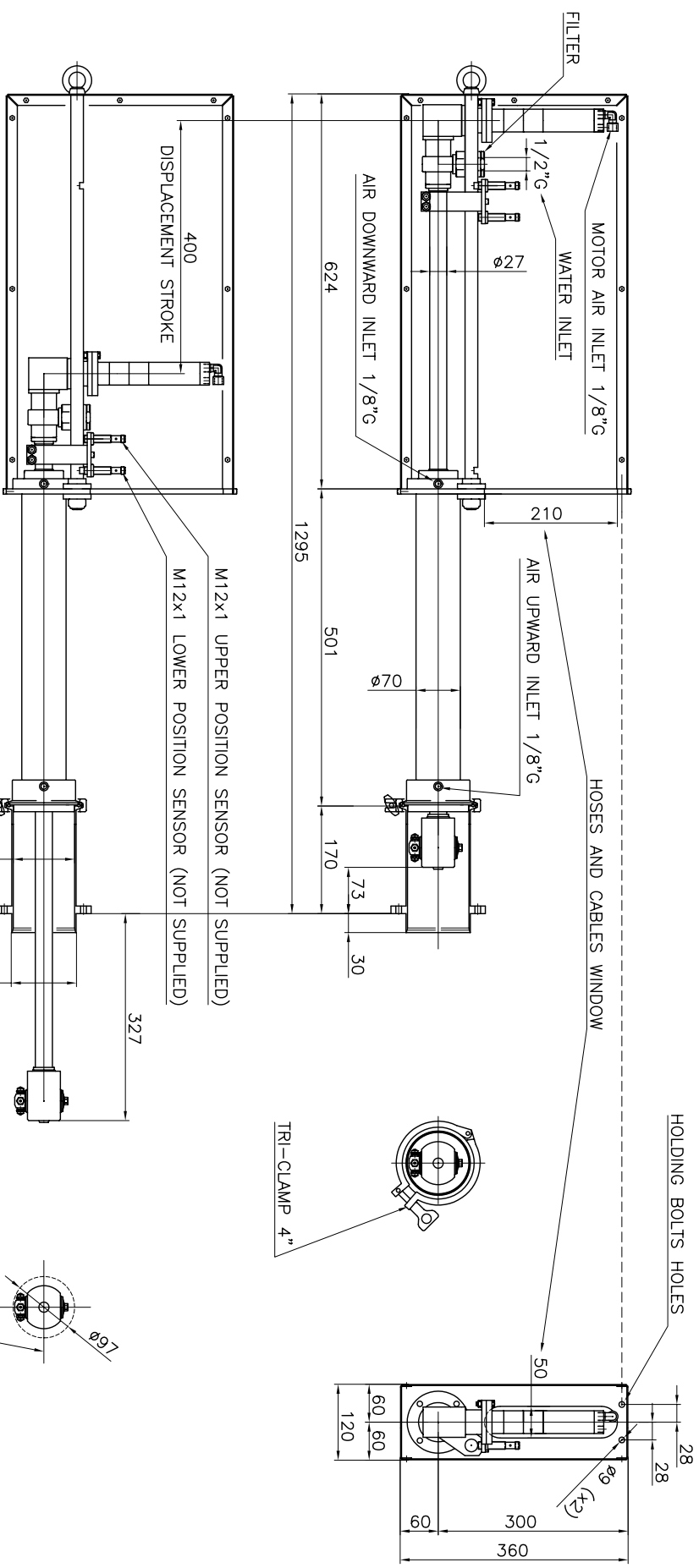
MAX FLOW	60 L/MIN.
MAX PRESSURE	200 BAR
NOZZLES POSITIONS	2 - 4
NOZZLE THREAD	1/8" G. SPECIAL
ELECTRIC MOTOR	56B5-4P-1400RPM-0.09KW-400V-3PH
GEARBOX	CM040U-1:80 RATIO
ROTATION SPEED	18 RPM
WASHING FULL CYCLE TIME	2 MIN.
HEAD MATERIAL	INOX
WEIGHT	12.5 KG.

RUGOSITA' (UNI 4600)	MODIFICA	1	2	3	4	5	
FOGLIO	XXXX						
DATA	XX XX XX						
GREZZO	~ = 9/						
SGROSS.	± 0.1	± 0.2	± 0.3	± 0.5	± 0.8	± 1.2	
NOTE:							
FINITURA	1/6/						
RETTIFICA	1/6/						
DESCRIZIONE: CONCRETE MIXER WASHING HEAD							
AUTOMATIC PROTECTION VERSION							
CODICE:							
XC 070E PT							



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	CM040U-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 0						
	DISIGN.: CR I CONTR.: DM						
	DATE: 11.02.11 MOD.						
	MONTECCHIO E. (RE) - ITALY						
	CLEANING HEADS						
	Boomet						



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

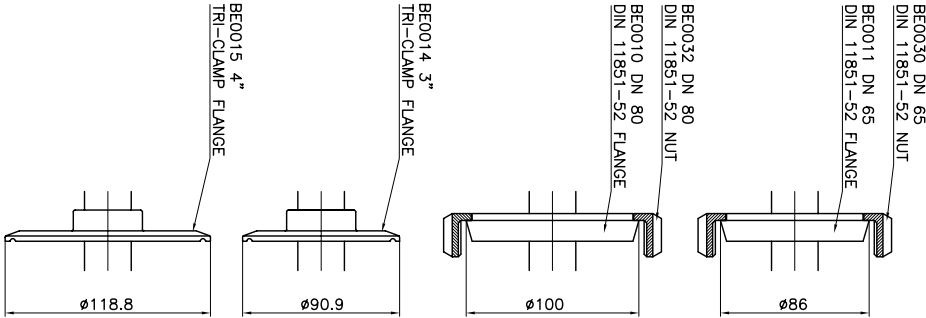
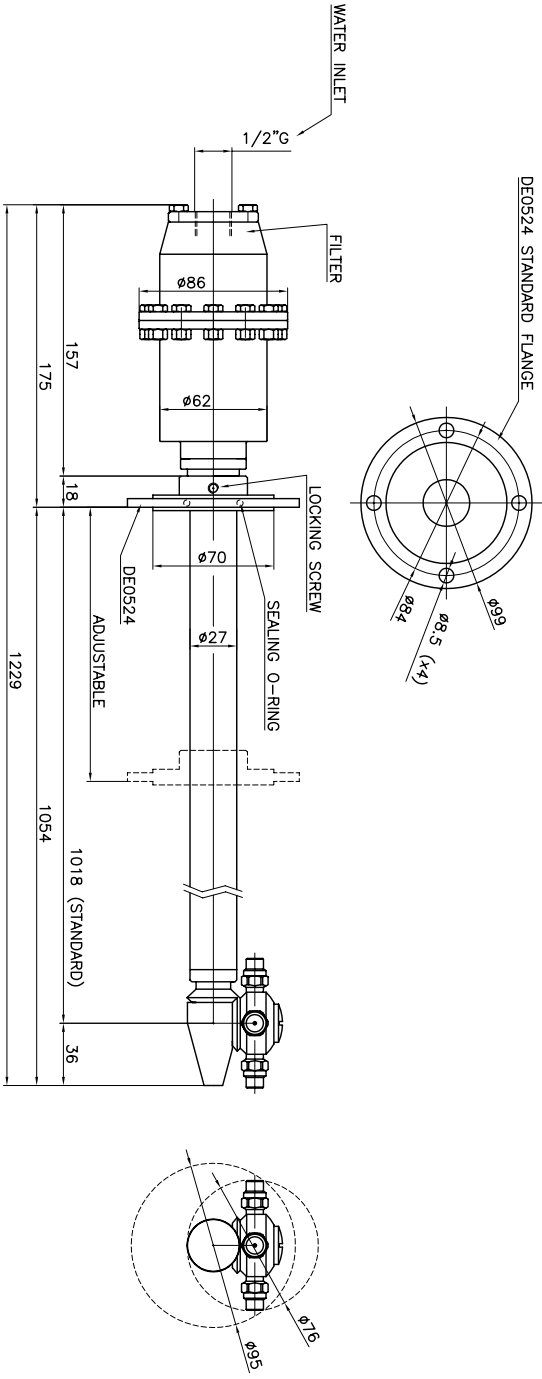
RUGOSITA' (UNI 4600)	MODIFICA	1	2	3	4	5
	FOGLIO	XXXX				
GREZZO	DATA	XX.XX.XX				
~ = ∅	TOLLERANZE GENERALI	close m	UNI-EN 22768/1			
SGROSS.	± 0.1	± 0.2	± 0.3	± 0.5	± 0.8	± 1.2
∇ = 3/2	NOTE:					
FINITURA 1/6	DESCRIZIONE:	APPLICATION DRAWING				
∇∇ = ∇		XC 065 PPD-90°BA cm				
RETIFICA 0.8/		400 mm STROKE				
CODICE:		XC 065 PPD-90°BA				



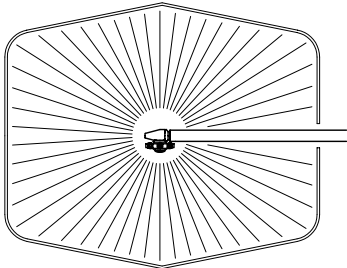
FLOW L/MIN		DIFUSER CODE - HOLES
10	DF0401 - 6x1.50	
15	DF0403 - 12x2.30	
20	DF0403 - 12x2.30	
25	DF0405 - 12x2.70	
30	DF0406 - 12x3.00	
35	DF0408 - 12x3.40	
40	DF0419 - 18x3.20	
45	DF0419 - 18x3.20	
50	DF0420 - 18x3.40	
55	DF0420 - 18x3.40	
60	DF0420 - 18x3.40	

TECHNICAL DATA

O-RING	NBR - EPDM - VITON
SLIPPER	PTFE+CARBON FIBRE
BUSHING	AIISI 316
FILTER	700 MICRON
NOZZLES POSITIONS	2 - 4
NOZZLES THREAD	1/8"NPT
TESTING NOZZLES	0 x 0000
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	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
TESTING DIFUSER CODE	DF0000 (SEE CHART)
FULL CYCLE	48 ROTATIONS
FULL CYCLE TIME	2.4 min AT 20 RPM
WEIGHT	3.2 KG

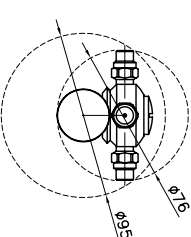
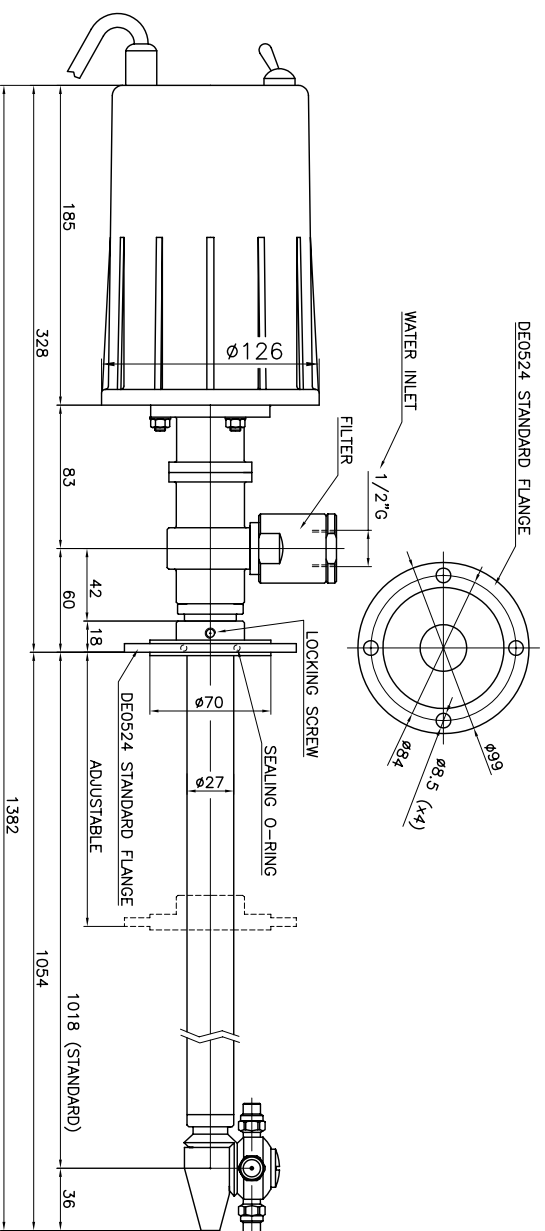


RUGOSITA' (UNI 4600)	MODIFICA	1	2	3	4	5
FOGLIO	XXXX					
GREZZO	DATA	XX.XX.XX				
TOLLERANZE GENERALI classe m UNI-EN 22768/1						
SGROSS. 3/2	0÷6	6÷30	30÷120	120÷400	400÷1000	1000÷2000
NOTE:	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2
FINITURA 1.6						
RETTIFICA 0.8						
DESCRIZIONE: XC 061 A APPLICATION DRAWING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



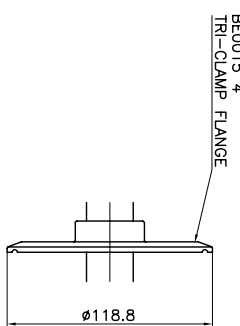
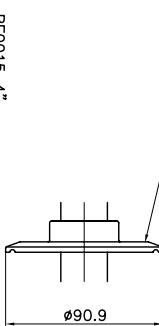
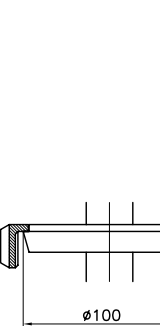
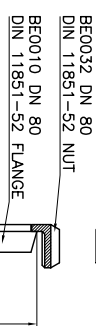
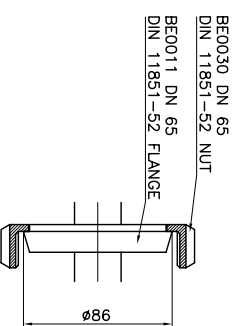
MONTECCHIO E. (RE) - ITALY
DISIGN.: CR ICONTR.: DM
DATA: 02.10.08 MOD.

SCALE 1:3 A3 O

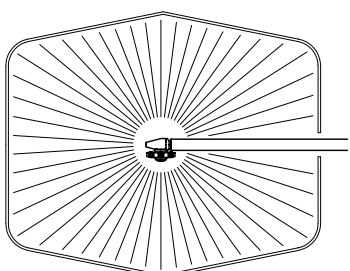


TECHNICAL DATA

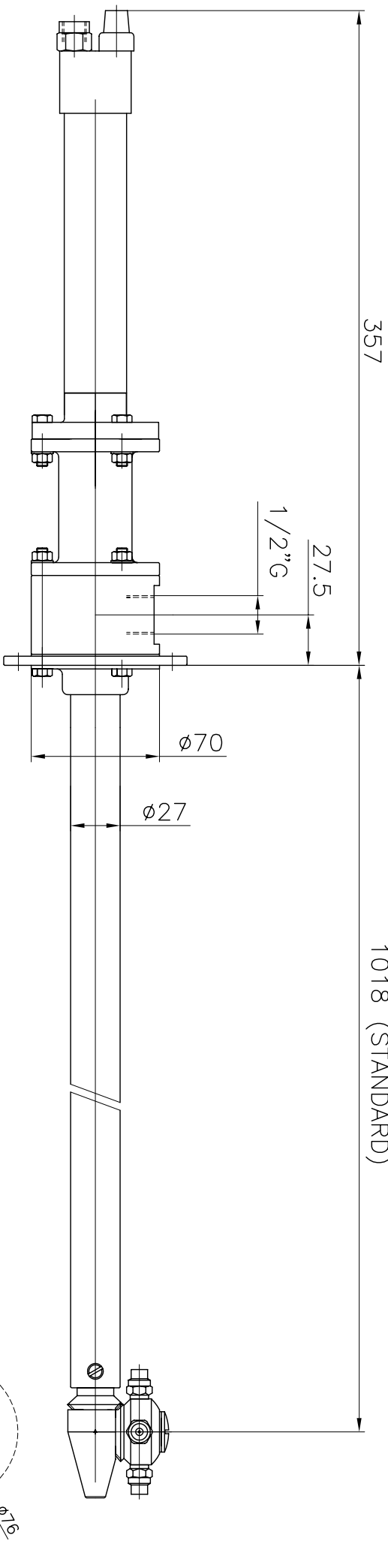
O-RING	NBR – EPDM – VITON
SLIPPER	PTFE+CARBON FIBRE
BUSHING	AINI 316
FILTER	700 MICRON
NOZZLES POSITIONS	2 – 4
NOZZLES THREAD	1/8"NPT
TESTING NOZZLES	0 x 0000
OPERATING FLOW RANGE	0 – 60 L/min
TESTING FLOW	00 L/min
OPERATING PRESSURE RANGE	0 – 200 bar
TESTING PRESSURE	000 bar
CENTER LINE MIN PASS THROUGH 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
ELECTRIC MOTOR	BB0743
ELECTRIC MOTOR VOLTS	24V AC/DC
ELECTRIC MOTOR AMPS	0.30 A
ROTATION SPEED	17 RPM
FULL CYCLE TIME	1.8 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				
∇∇∇ = ∇	APPLICAZIONE	DRAWING				
	CODICE:	XC 061 E				

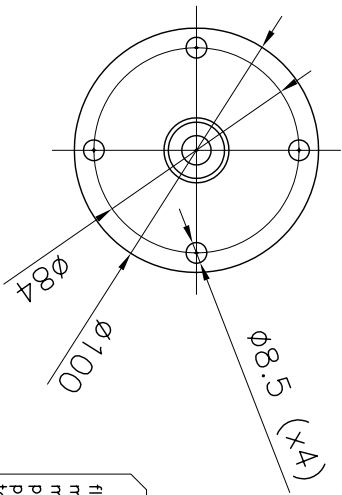


DISIGN.: CR	CONTR.: DM
DATA: 06.10.08	MOD.
SCALA	
1:3	A3
0	

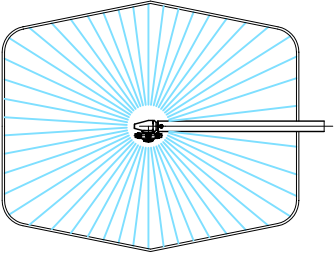
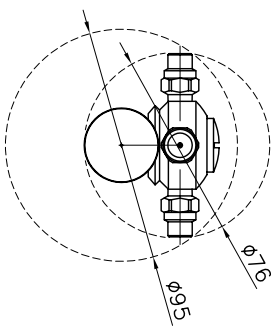



ROTATION SPEED AIR PRESSURE AND CONSUMPTION				
19 RPM	1 bar	155 L/min		
28 RPM	2 bar	230 L/min		
33 RPM	3 bar	275 L/min		
37 RPM	4 bar	320 L/min		
40 RPM	5 bar	360 L/min		
51 RPM	6 bar	395 L/min		

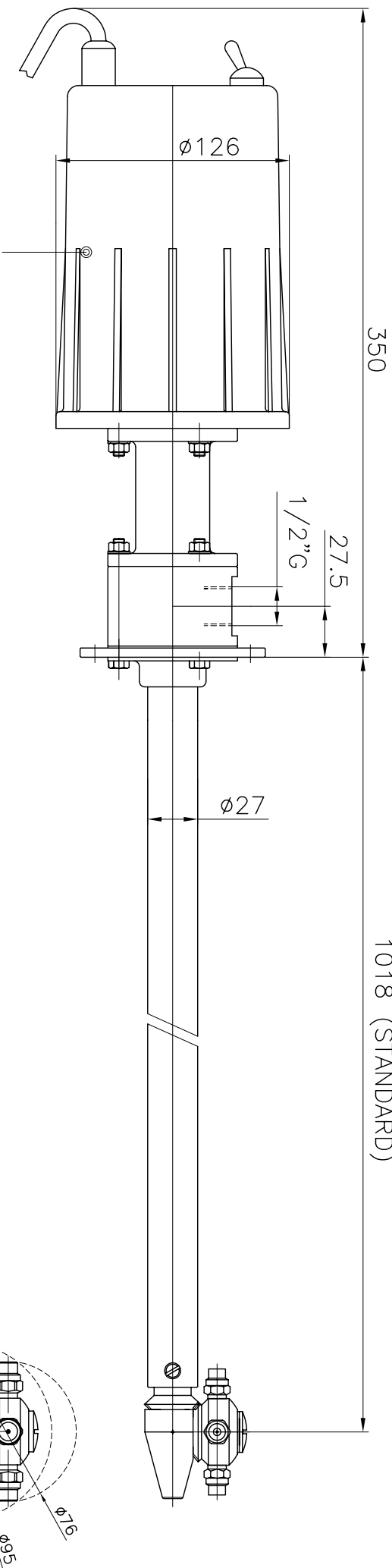
19 RPM	1 bar	155 L/min
28 RPM	2 bar	230 L/min
33 RPM	3 bar	275 L/min
37 RPM	4 bar	320 L/min
40 RPM	5 bar	360 L/min
51 RPM	6 bar	395 L/min



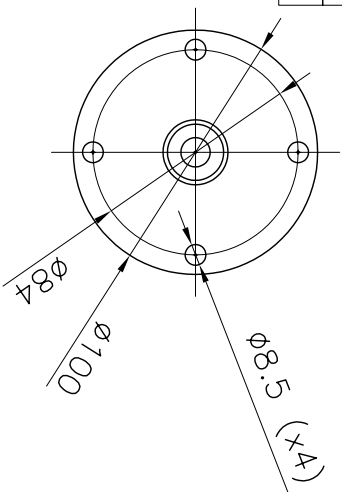
flangitura: coassiale materiale: inox 316 motore: pneumatico portata max: 60 l/min pressione max: 400 bar temperatura max: 100°C tenute: nbr, epdm, viton ugelli: 1/8" G portaugelli: 2-4 vie	flanging: coaxial material: stainless steel 316 motor: pneumatic flow max: 60 l/min pressure max: 400 bar temperature max: 100°C seals: nbr, epdm, viton nozzles: 1/8" G nozzle holder: 2-4 holes
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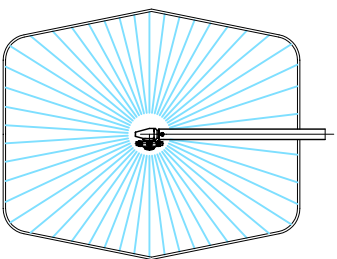
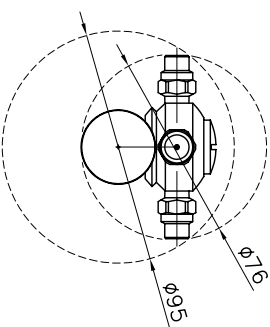
RUGOSITA' (UNI 4600)	MODIFICA	1	2	3	4	5
	FOGLIO	XXXX				
	DATA	XX.XX.XX				
	TOLLERANZE GENERALI classe m UNI-EN 22768/1					
GREZZO	0 ÷ 6 6 ÷ 30 30 ÷ 120 120 ÷ 400 400 ÷ 1000 1000 ÷ 2000					
SGROSS. 3.2/	± 0.1	± 0.2	± 0.3	± 0.5	± 0.8	± 1.2
	NOTE: VERSION 400 BAR					
FINITURA 1.6/	DESCRIZIONE: DISEGNO DI APPLICAZIONE					
RETTIFICA 0.8/	XC 060 P					
	INSTALLATION DRAWING					
VVV = V	XC 060 P					
						
CLEANING HEADS						
MONTECCHIO E. (RE) - ITALY						
DISEGN.: CR		CONTR.: DM				
DATA: 01.01.05		MOD.				
SCALE	1:3	A4	O			
CODICE:	XC 060 P					



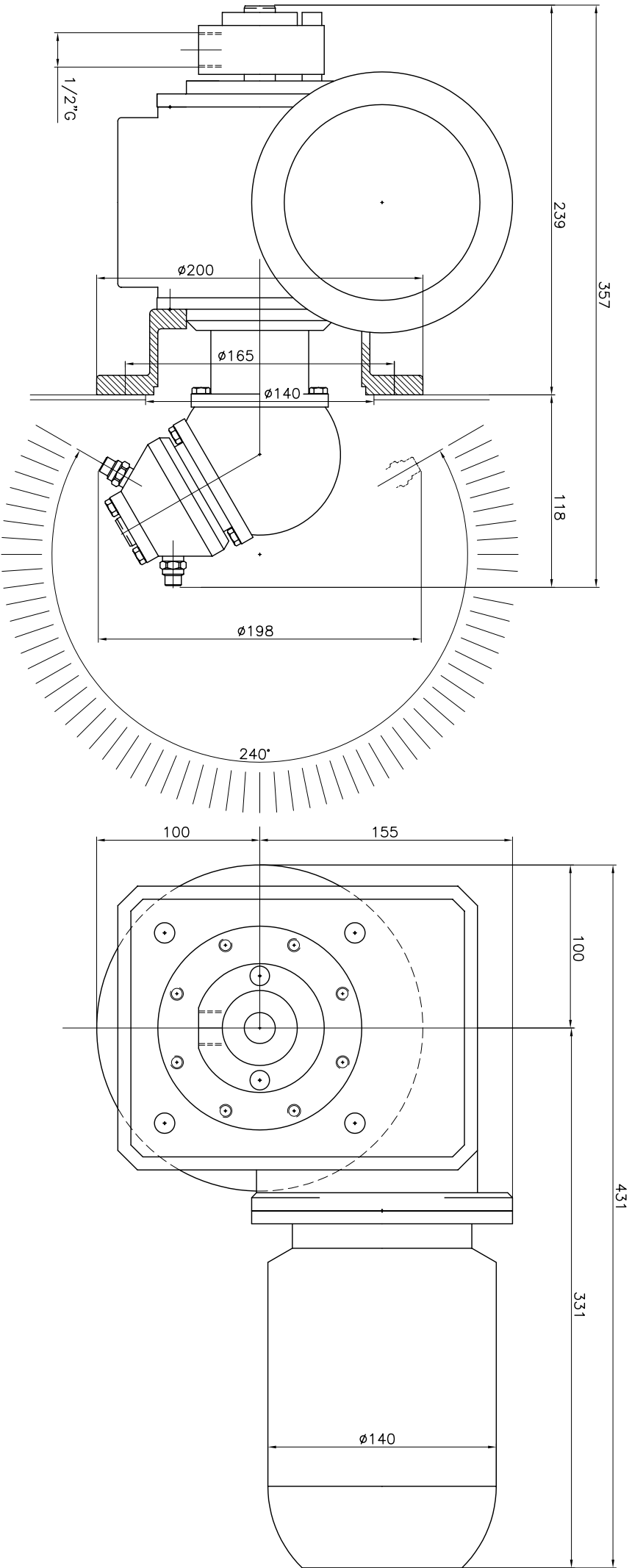
motore elettrico: 24V, 48V, 230V, 380V, antideflagrante
electric motor: 24V, 48V, 230V, 380V, explosion-proof



flangiatura: coassiale materiale: inox 316 motore: elettrico portata max: 60 l/min pressione max: 400 bar temperatura max: 90°C tenute: nbr, epdm, viton ugelli: 1/8" G portaugelli: 2-4 vie	flanging: coaxial material: stainless steel 316 motor: electric flow max: 60 l/min pressure max: 400 bar temperature max: 90°C seals: nbr, epdm, viton nozzles: 1/8" G nozzle holder: 2-4 holes
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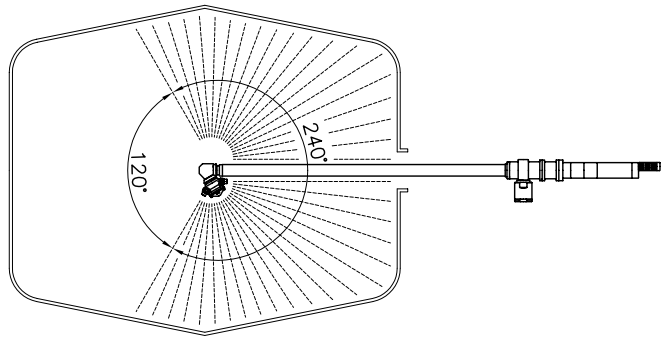
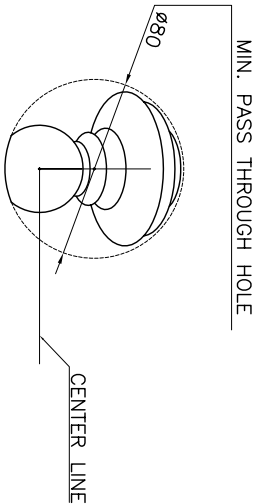
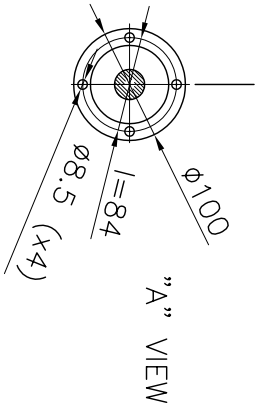
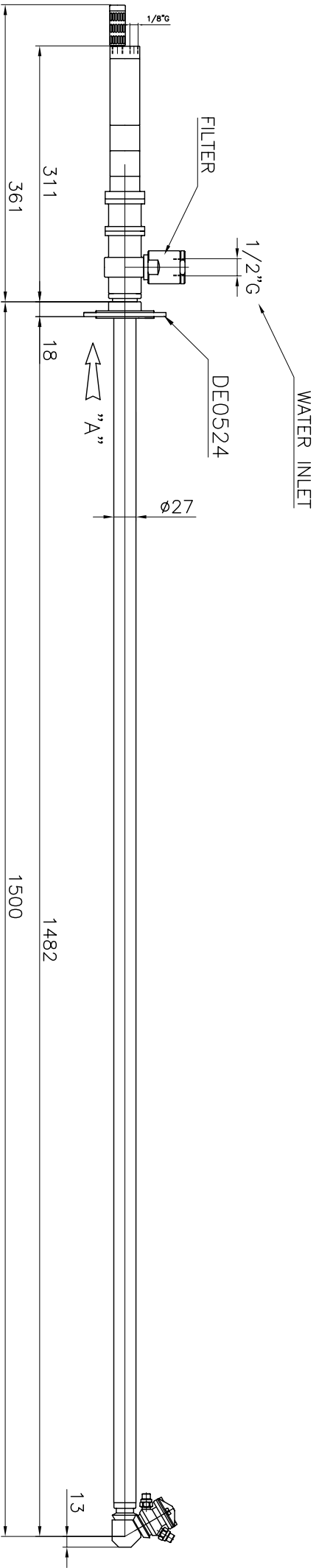


RUGOSITA' (UNI 4600)	MODIFICA	1	2	3	4	5
GREZZO	FOGLIO	XXXX				
~ = √	DATA	XX.XX.XX				
SGROSS. 3/2	TOLLERANZE GENERALI classe m UNI-EN 22768/1	0 ÷ 6	6 ÷ 30	30 ÷ 120	120 ÷ 400	400 ÷ 1000
∇ = ∇		± 0.1	± 0.2	± 0.3	± 0.5	± 0.8
FINITURA 1.6/	NOTE: VERSION 400 bar					± 1.2
RETIFICA 0.8/	DESCRIZIONE: DISEGNO DI APPLICAZIONE					
∇∇∇ = ∇	XC 060 E					
	INSTALLATION DRAWING					
	XC 060 E					
	SCALE	1:3	A4	O		
	CODICE:	XC	060	E		
	DISIGN.: CR	CONTR.: DM				
	DATA: 01.01.05					
	MONTECCHIO E. (RE) - ITALY					
	CLEANING HEADS					



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.

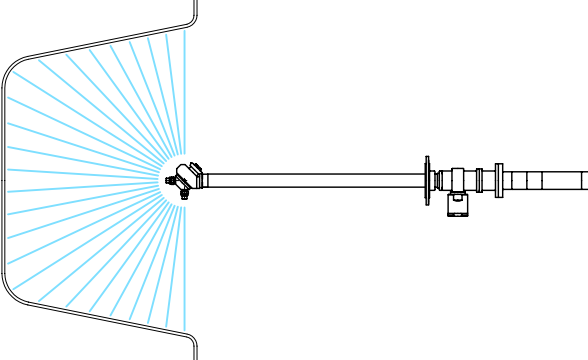
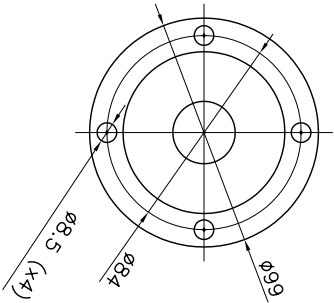
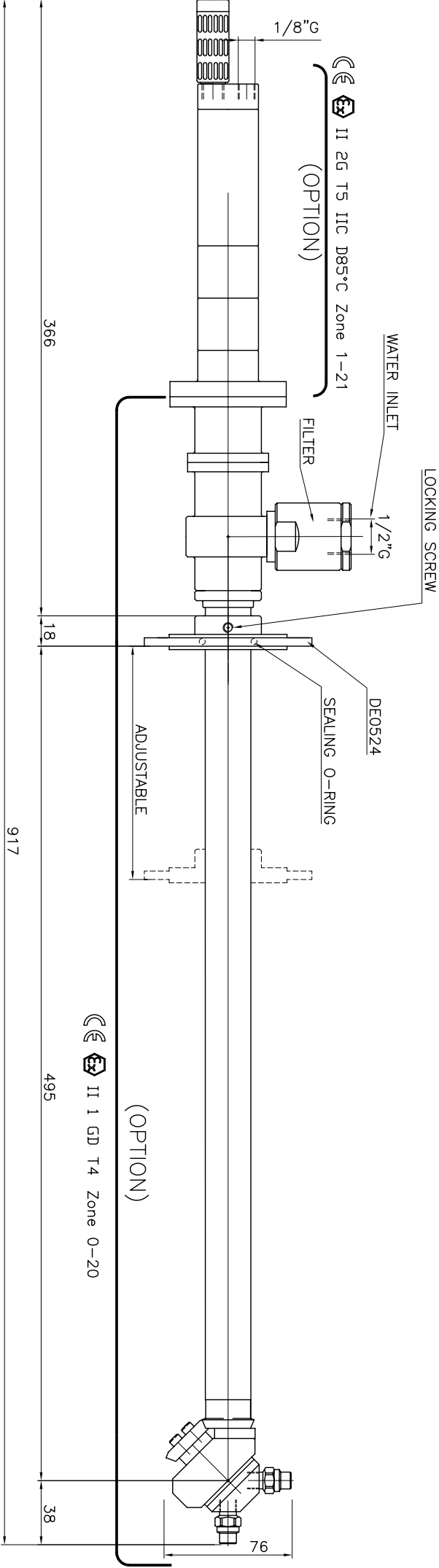
RUGOSITA' (UNI 4600)	MODIFICA 1	2	3	4	5
GREZZO	FOGLIO	XXXX			
~ = ∅	DATA	XX.XX.XX			
SGROSS. 3/2	TOLLERANZE GENERALI classe m	UNI-EN 22768/1			
∇ = 3/2	0±0.6	6±30	30±120	120±400	400±1000
FINITURA 1/2	±0.1	±0.2	±0.3	±0.5	±0.8
RETTIFICA 0.8	NOTE:				
∇∇ = ∇	MATERIALE:				
∇∇∇ = ∇	DESCRIZIONE: CONCRETE MIXER WASHING HEAD				
	TESTA LAVAGGIO SISTEMI BETONAGGIO				
	MOD.:				
	SCALA 1:2				
	DISEGN.: CR				
	DATA: 29.09.10				
	CONTR.: DM				
	MOD.:				
	XC059E				



TECHNICAL DATA	
O.RING	EPDM
SLIPPER	PTFE+CARBON FIBER
BUSHING	NICKEL BRONZE 25%
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
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
AIR EXHAUST	FESTO SILENCER BP 415 ON MOTOR
WEIGHT	6.5 KG

AIR PRESSURE AND CONSUMPTION	
ROTATION SPEED	29 RPM
ROTATION SPEED	42 RPM
ROTATION SPEED	51 RPM
ROTATION SPEED	58 RPM
ROTATION SPEED	62 RPM
ROTATION SPEED	66 RPM

RUGOSITA' (UNI 4600)	MODIFICA	1	2	3	4	5
GREZZO	FOGLIO	XXXX				
~ = Ø	DATA	XX.XX.XX				
SGROSS. 3/2	TOLLERANZE GENERALI	close 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
FINITURA 1,6/∇	VERSION: 01					
RETTIFICA 0,8/∇	NOTE:					
∇∇∇ = 0,8/∇	DESCRIPTION: APPLICATION DRAWING					
	CODICE:					
	XC031_240°BK-PE.01					
	SCALA	1:3	A4	O		
	DISIGN.: CR	CONTR.: DM				
	DATE: 14.09.07					
	MOD.					




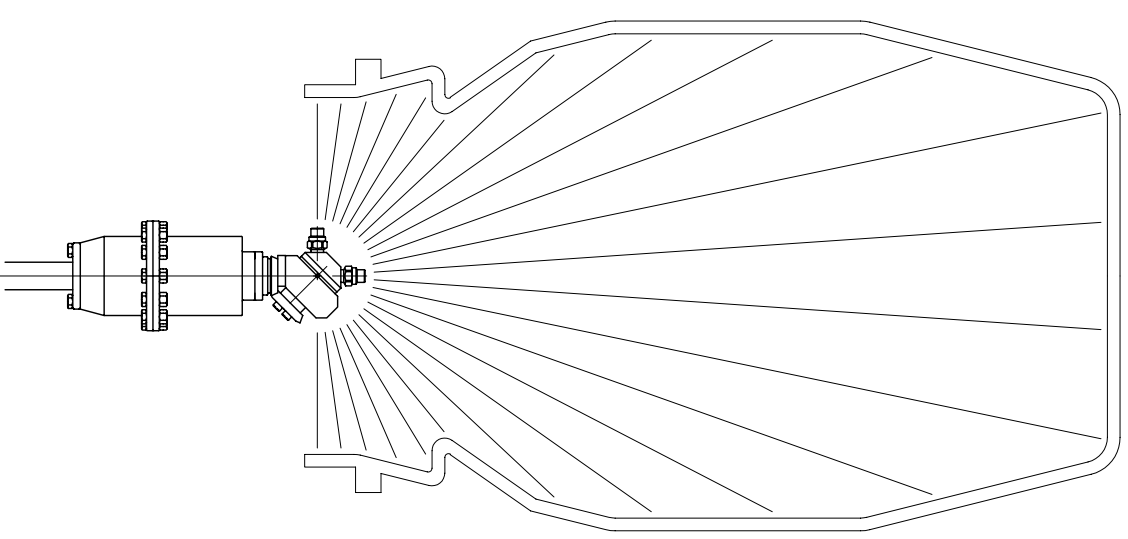
TECHNICAL DATA

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

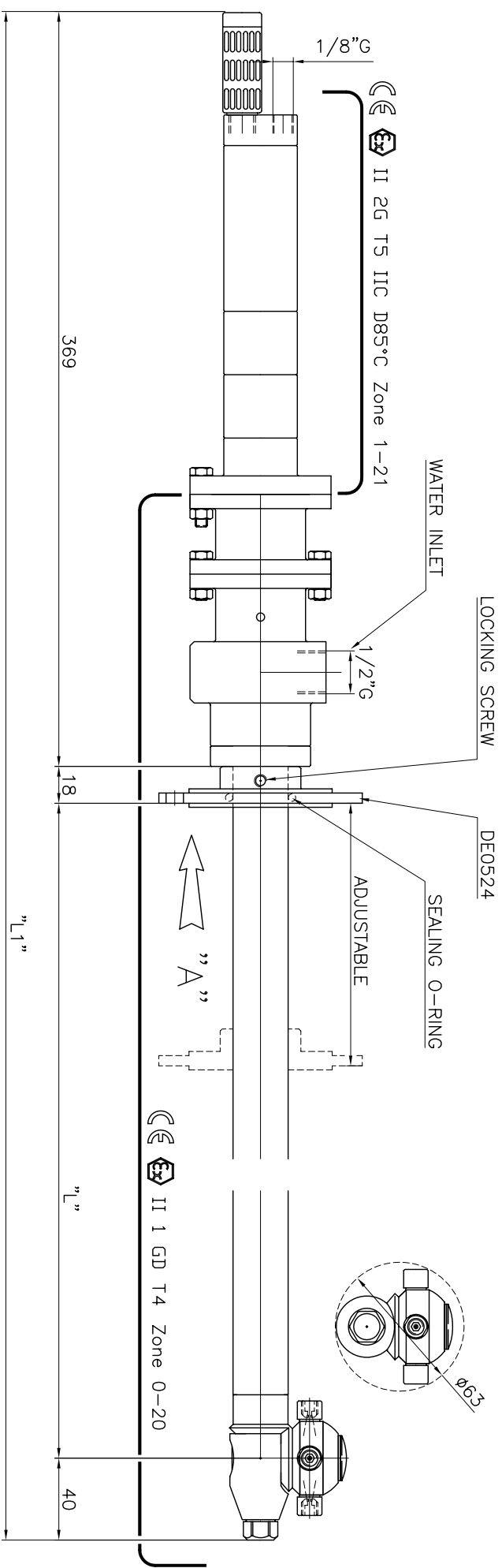
RUGOSITA' (UNI 4600)	MODIFICA	1	2	3	4	5	 CLEANING HEADS MONTECCHIO E. (RE) - ITALY DISIGN.: CR ICONTR.: DM DATA: 27.10.09 SCALA 1:2 A3 0
GREZZO	FOGLIO	xxxx					
~ = ø	DATA	xx.xx.xx					
SGROSS	TOLLERANZE GENERALI classe m UNI-EN 22768/1 0+6 -6-30 30+120120+400400+10001000+2000						
±0.1	±0.2	±0.3	±0.5	±0.8	±1.2		
FINITURA	NOTE:						
RETIFICA	MATERIALE: INOX						
DESCRIZIONE:	APPLICATION DRAWING XC 031_180FR-PPD.01						
CODICE:	XC 031_180FR-PPD.01						



O.RING	EPDM
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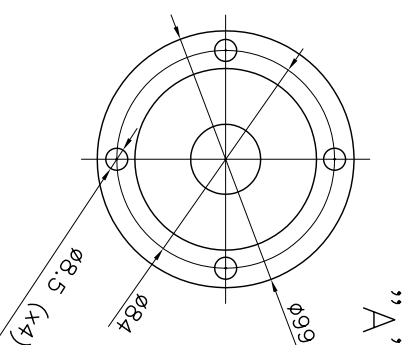
SLIPPER	PTFE+CARBON FIBRE
FILTER	700 MICRON
NOZZLES POSITIONS	2-4
NOZZLES TYPE	1/8"NPT
MAX OPERATING FLOW	60 L/min
MAX OPERATING PRESSURE	150 bar
MAX OPERATING TEMPERATURE	90 °C
MATERIAL	INOX AISI 316
CONICAL GEARS	FIXED Z=29 ROTATING Z=31
MODULE	1
COMPLETE CYCLE	31 ROTATIONS
COMPLETE CYCLE TIME	30 SEC
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/	∇/							
<div> CLEANING HEADS MONTECCHIO E. (RE) - ITALY</div>								
CODICE:		XC031_180°FR-AA.M.01						
SCALE		1:2	A4		O			



TECHNICAL DATA

O-RING	NBR-EPDM-VITON
SLIPPER	PTFE+CARBON FIBER
BUSHING	AISI 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 AISI 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 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				
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	
NOTE:						
FINITURA 1,6/	MATERIALE:					
VV = V						
RETTIFICA 0,8/						
VVV = V						
DESCRIZIONE: APPLICATION DRAWING						
XC 561 P cm						
CODICE: XC 561 P cm						



DISIGN.: CR ICONTR.: DM
DATA: 21.01.10 MOD.
SCALA 1:2 A3 0

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