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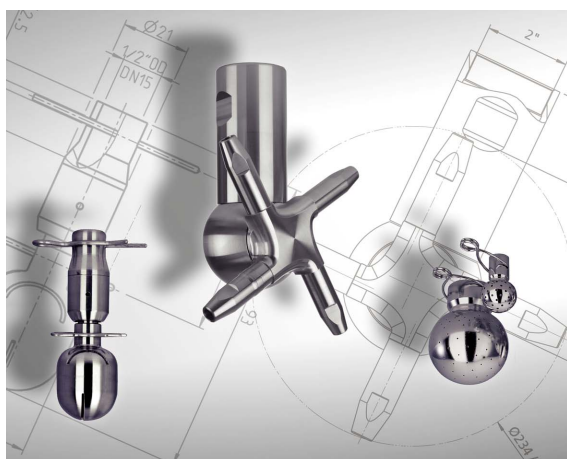
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ОЧИСТИТЕЛИ И СТЕРИЛИЗАТОРЫ ОС200, JUMBO 6, TEMPEST, TORNADO, TWISTER, TYRHOON Технические характеристики

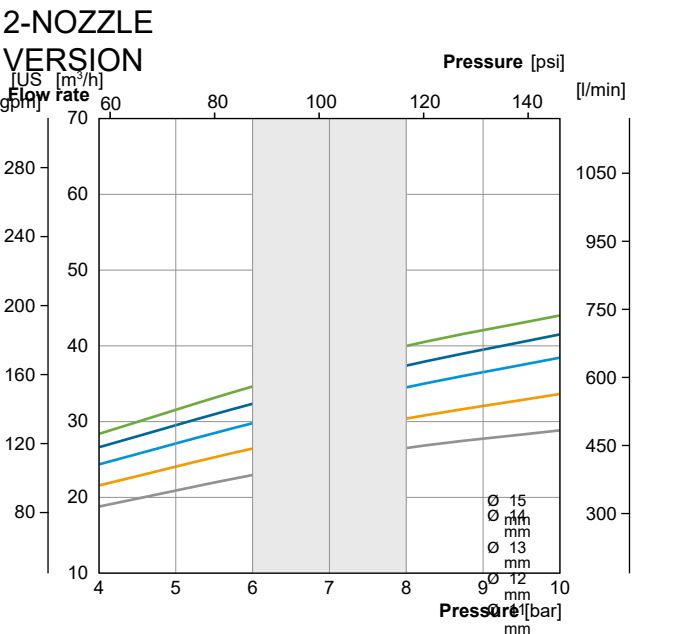


GEA Orbital Cleaner OC200

Performance data

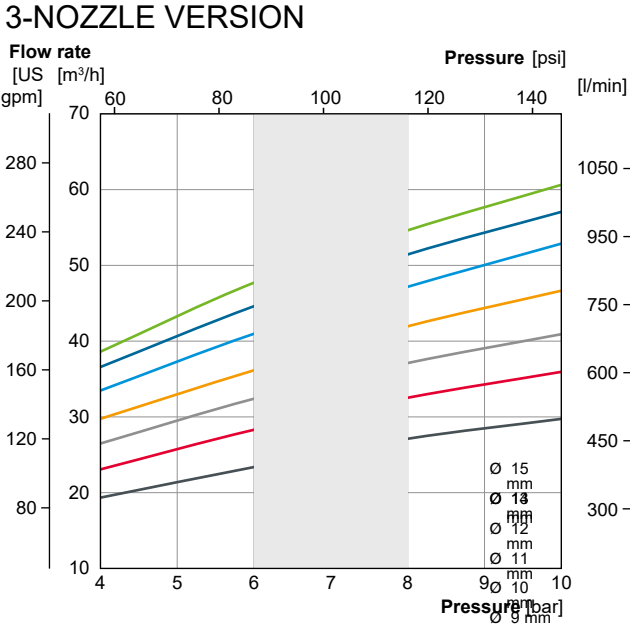
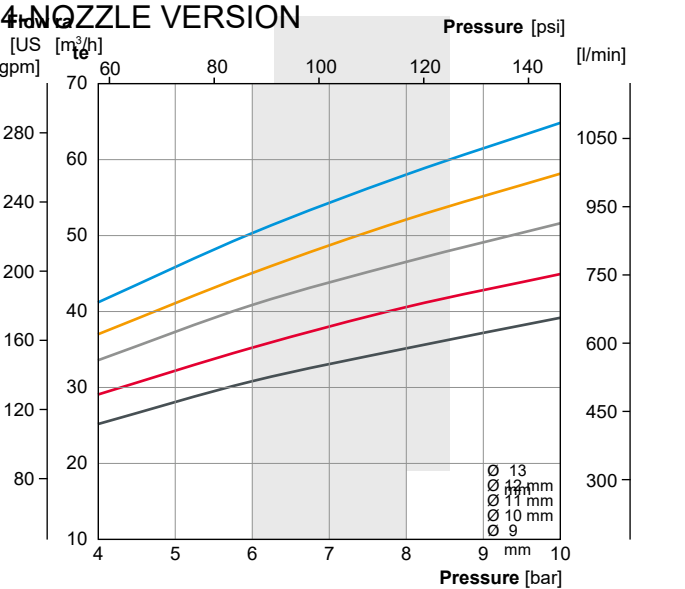
Flow performance data

The OC200 is capable of being configured with a 2-, 3- or 4- nozzle carrier. The three flow diagrams indicate the standard nozzle sizes available for each version together with the cleaner performance data.



DYNAMIC SPRAY DISTANCE (ALL VERSIONS)

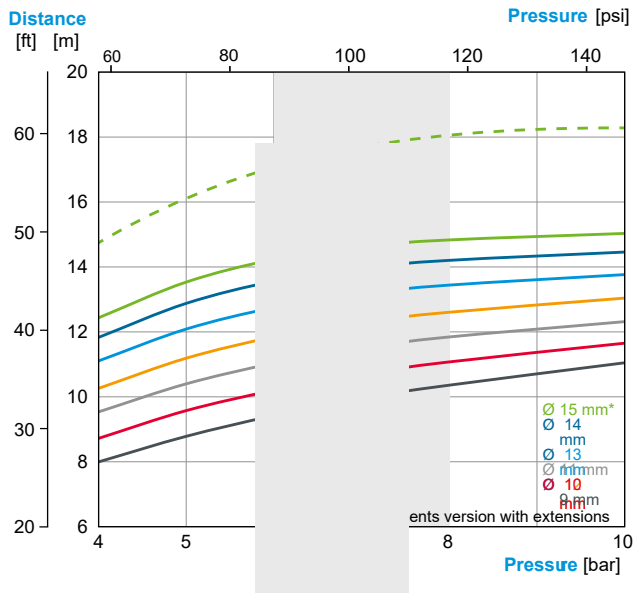
4-NOZZLE VERSION



MAX. FULL PATTERN (ALL VERSIONS)

GEA's policy of continued improvement means that specifications may vary without prior notice.

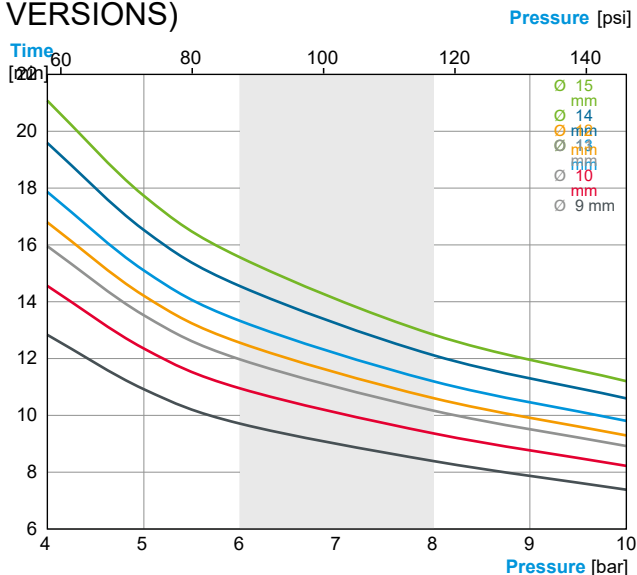
DYNAMIC SPRAY DISTANCE (ALL VERSIONS)



Dynamic spray performance

The solid curves show the dynamic spray radius of the long nozzle combined with the recommended rotor/stator combination that our product experts have preselected for the various nozzle options. The dashed curve expresses the increased performance for the 15 mm nozzle. Our product experts are available to advise on the dynamic spray radius for other customized configurations.

MAX. FULL PATTERN (ALL VERSIONS)



Full pattern time

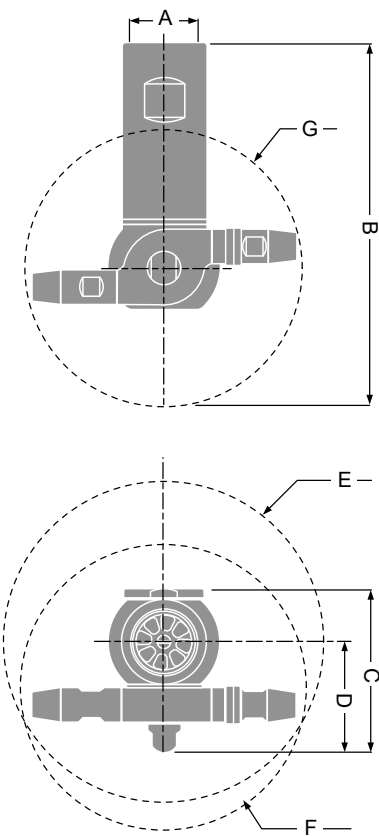
The diagram shows the maximum time to complete the full spray pattern with the optimum speed for each nozzle diameter. Our product experts are available to adjust the speed to customize cleaning performance where required. Depending on the customized configuration of the cleaner, the time for the full pattern varies.

Please note: Depending on the level of soiling and the required CIP cycle the acceptable level of performance may be achieved with a partial, complete or multiple full pattern time.

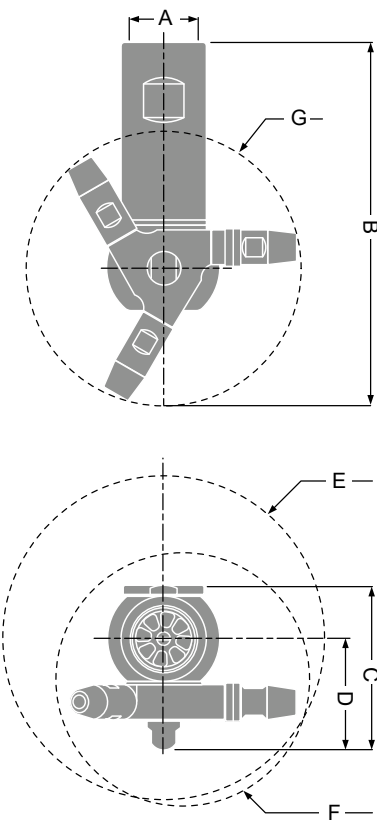
All diagrams are based on a cleaning medium of: density 1 kg / dm³, viscosity 1 mm² / s, temperature 20 °C

Dimensions

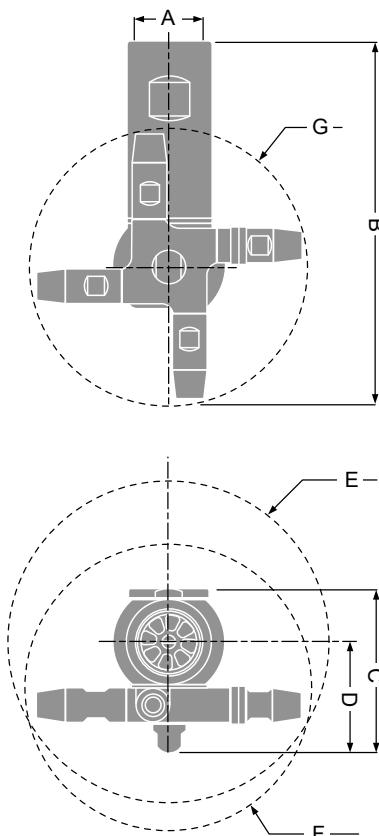
2-NOZZLE VERSION



3-NOZZLE VERSION



4-NOZZLE VERSION



DIMENSIONS

Nozzle length	A	B [mm]	C [mm]	D [mm]	E [mm]	F (Minimum insertion size) [mm]		G [mm]
Short	2" BSP × 22 mm or 2" NPT*	296	144	97	240	2 & 4 nozzles 200	3 nozzles 200	200
Long		316			280	250	210	240
Long with extensions		376			400	370	320	360

* Hygienic adaptors are available for 2" BSP versions only

Orbital Tank Washer Jumbo 6

The orbital tank washer Jumbo 6 is used for a strong mechanical cleaning in large tanks up to 19 meters diameter. Due to the robust design, effective performance the Jumbo 6 units are highly suitable for the pharmaceutical, biotech, food, beverage and many other industries.

Advantages

- Powerful round jets
- High flow rate
- Resistant to blockage
- External gear
- Different nozzle diameter
- Monitoring by rotation sensor (optional)
- Preferred mounting position: vertical down, vertical up



Applications

The tank cleaner's ultra sleek design, is ideally suited to all applications where hygiene is a priority. The compact nature of the design combined with the high power jets, makes it perfect for cleaning a variety of vessel sizes and manufacturing equipment. Tempest units can be used in the brewing, beverage, dairy, food, chemicals, coatings and transport industries. The units can be used on permanently fixed or mobile installations.

Technical Data

Item	Size
Recommended pressure	4 – 12 bar (58 – 174 psi)
Cleaning diameter	up to 11 m (36.1 ft)
Flow rate	10.8 – 34.8 m³/h (180 – 580 l/min, 47.6 – 153.2 USgpm)
Nozzle characteristics	4 nozzles (3/8" or 1/4" diameter nozzles available)
Spray pattern	360°
Operating temperature	max. 95 °C (203 °F)
Ambient temperature	max. 140 °C (284 °F), 30 min
Insertion opening	Ø 280 mm (11 inch)
Materials	Stainlesss Steel 316L (1.4404), PTFE
Pipe connection	1½" BSPT or NPT Female
Weight	approx. 4.4 kg (9.7 lbs)

GEA Breconcherry

Orbital cleaner - Tempest



- Self-cleaning
- High spray dwell time
- Identical to Tornado & Typhoon for maintenance purposes

Approx. cycle times

Pressure	Nozzles Ø 7 mm	Nozzles Ø 8 mm
4 bar	9 min 45 s	8 min
6 bar	7 min 45 s	6 min 30 s
8 bar	6 min 45 s	5 min 30 s
10 bar	5 min 45 s	5 min

Recommended

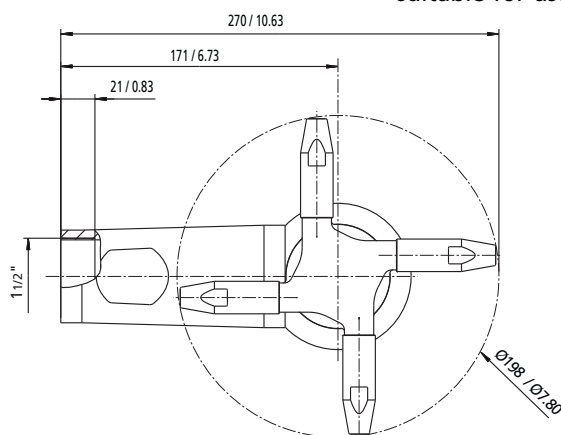
working pressure:	4 - 10 bar (58 - 145 psi)
Cleaning diameter:	max. 19 m (62 ft)
Flow rate:	12 - 23.4 m ³ /h (200 - 390 l/min / 53 - 103 USgpm)
Spray angle:	360°
Operating temperature:	max. 95 °C (203 °F)
Ambient temperature:	max. 140 °C (284 °F), 30 min
Insertion opening:	min. Ø 210 mm (8.27 inch)
Materials:	stainless steel 316L (1.4404), C-PTFE or PTFE, C-PEEK
Weight:	approx. 3.9 kg (8.6 lbs)
Preferred mounting position:	any

Version 1

	Part number
1 1/2" BSP / 7 mm nozzles / C-PTFE ²	4660-4968-117
1 1/2" BSP / 8 mm nozzles / C-PTFE ²	4660-4968-118
1 1/2" BSP / 7 mm nozzles / PTFE	4660-4968-119
1 1/2" BSP / 8 mm nozzles / PTFE	4660-4968-120
1 1/2" NPT / 7 mm nozzles / C-PTFE ²	4660-4968-121
1 1/2" NPT / 8 mm nozzles / C-PTFE ²	4660-4968-122
1 1/2" NPT / 7 mm nozzles / PTFE	4660-4968-123
1 1/2" NPT / 8 mm nozzles / PTFE	4660-4968-124

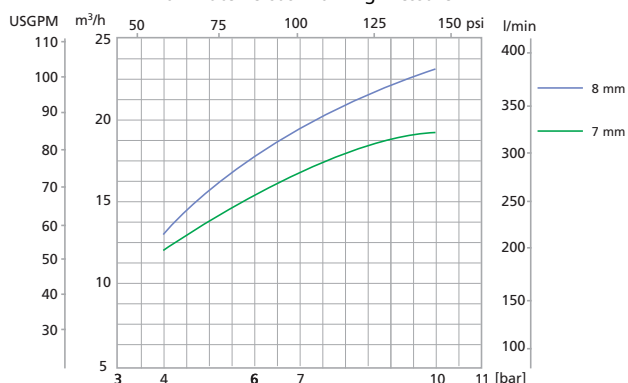
¹ optional with Pin Fix connection

² suitable for use in potentially explosive atmospheres

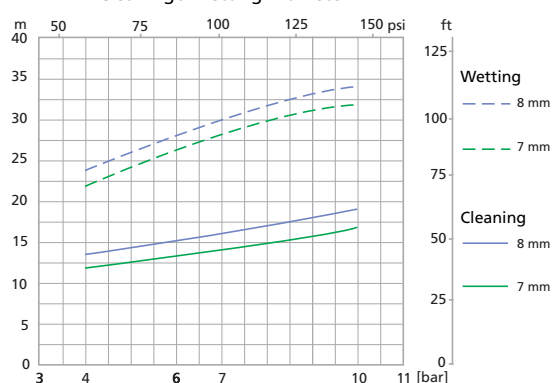


Dimensions (mm / inch)

Flow Rate versus Working Pressure



Cleaning / Wetting Diameter



GEA Breconcherry

Orbital cleaner - Tornado



- Self-cleaning
- High spray dwell time
- Identical to Tempest & Typhoon for maintenance purpose

Recommended

working pressure:	4 - 10 bar (58 - 145 psi)
Cleaning diameter:	max. 27 m (88.6 ft)
Flow rate:	14.6 - 22.7 m ³ /h (243 - 378 l/min / 64.3 - 99.9 USgpm)
Spray angle:	360°
Operating temperature:	max. 95 °C (203 °F)
Ambient temperature:	max. 140 °C (284 °F), 30 min
Insertion opening:	min. Ø 220 mm (8.66 inch)
Materials:	stainless steel 316L (1.4404), C-PTFE or PTFE
Weight:	approx. 3.1 kg (6.8 lbs)
Preferred mounting position:	any

Approx. cycle times

Pressure	Nozzles Ø 11 mm
4 bar	11 min 45 s
6 bar	7 min 30 s
8 bar	6 min 15 s
10 bar	5 min 30 s

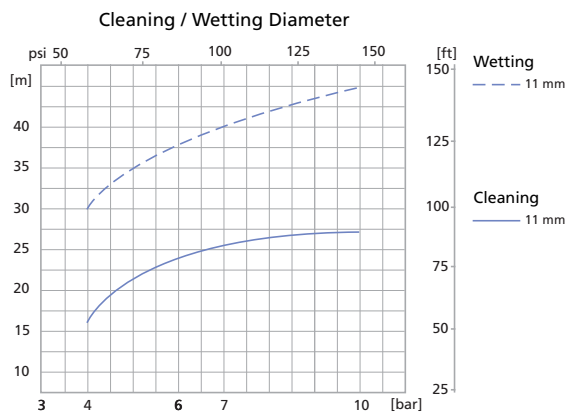
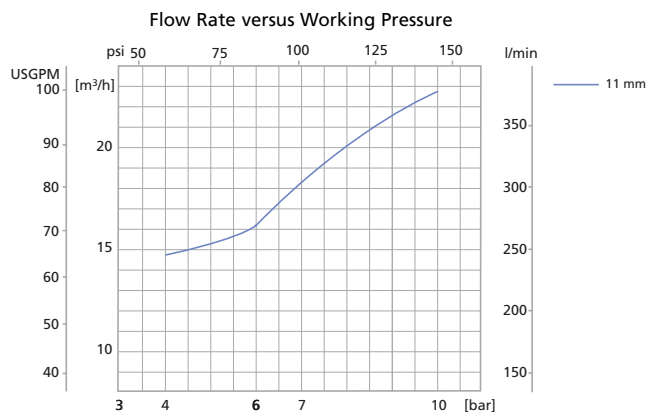
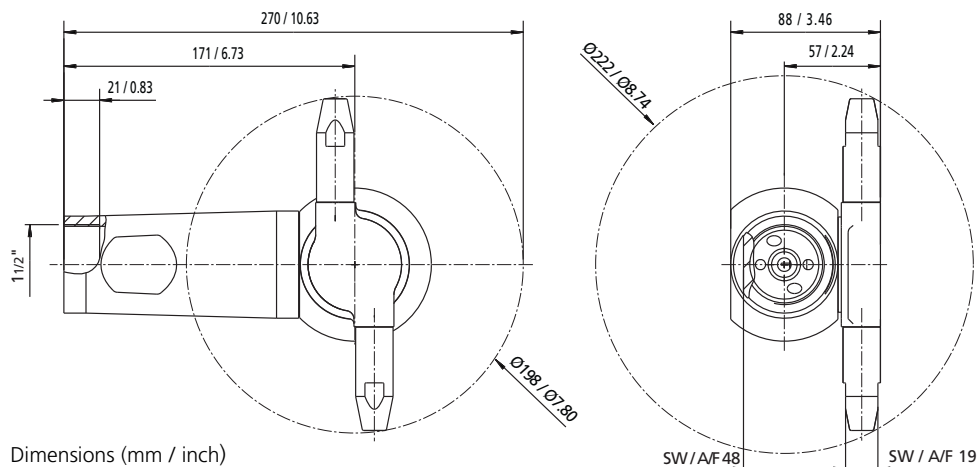
Version ¹

Part number

1 1/2" BSP / 11 mm nozzles / C-PTFE ²	4660-4970-113
1 1/2" BSP / 11 mm nozzles / PTFE	4660-4970-114
1 1/2" NPT / 11 mm nozzles / C-PTFE ²	4660-4970-115
1 1/2" NPT / 11 mm nozzles / PTFE	4660-4970-116

¹ optional with Pin Fix connection

² suitable for use in potentially explosive atmospheres



GEA Breconcherry

Orbital cleaner - Twister



- Powerful compact jetting cleaner
- Low flow rate
- Fits through 100 mm / 4 inch diameter hole
- High spray dwell time
- Similar to Typhoon, Tempest, Tornado for maintenance purposes

Approx. cycle times

Pressure	Nozzles Ø 3 mm	Nozzles Ø 4 mm
4 bar	2 min	3 min 30 s
6 bar	1 min 45 s	2 min 45 s
8 bar	1 min 30 s	2 min 15 s
10 bar	1 min 15 s	2 min

Recommended

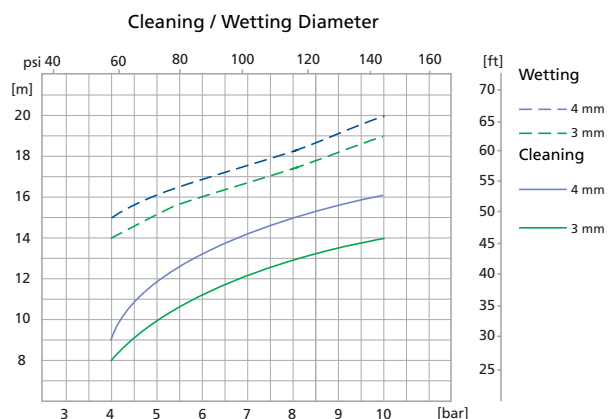
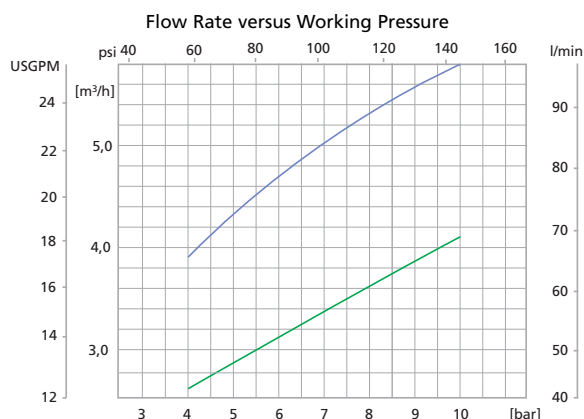
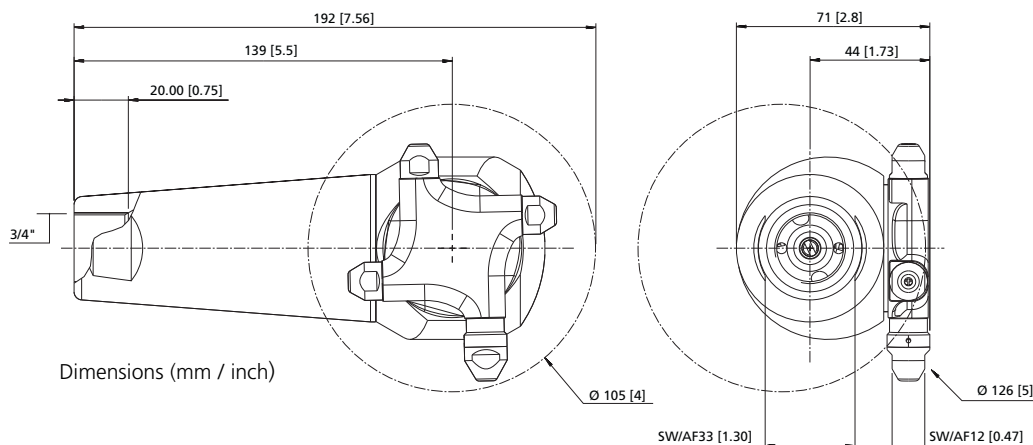
working pressure:	4 - 10 bar (58 - 145 psi)
Cleaning diameter:	max. 16 m (52 ft)
Flow rate:	2.7 - 5.8 m ³ /h (45 - 97 l/min / 11.9 - 25.6 USgpm)
Spray angle:	360°
Operating temperature:	max. 95 °C (203 °F)
Ambient temperature:	max. 140 °C (284 °F), 30 min
Insertion opening:	min. Ø 100 mm (3.94 inch)
Materials:	stainless steel 316L (1.4404), C-PTFE or PTFE, C-PEEK
Weight:	approx. 2.0 kg (4.4 lbs)
Preferred mounting position:	any

Version 1

Version 1	Part number
3/4" BSP / 3 mm nozzles / C-PTFE ²	4660-4990-111
3/4" BSP / 4 mm nozzles / C-PTFE ²	4660-4990-121
3/4" BSP / 3 mm nozzles / PTFE	4660-4990-110
3/4" BSP / 4 mm nozzles / PTFE	4660-4990-120
3/4" NPT / 3 mm nozzles / C-PTFE ²	4660-4990-112
3/4" NPT / 4 mm nozzles / C-PTFE ²	4660-4990-122
3/4" NPT / 3 mm nozzles / PTFE	4660-4990-113
3/4" NPT / 4 mm nozzles / PTFE	4660-4990-123

¹ optional with Pin Fix connection

² suitable for use in potentially explosive atmospheres



GEA Breconcherry

Orbital cleaner - Typhoon



- Self-cleaning
- High spray dwell time
- Identical to Tempest & Tornado for maintenance purposes

Approx. cycle times

Pressure	Nozzles Ø 4.5 mm	Nozzles Ø 6 mm
4 bar	4 min 45 s	5 min 45 s
6 bar	4 min	4 min 30 s
8 bar	3 min 30 s	4 min
10 bar	3 min	3 min 30 s

Recommended

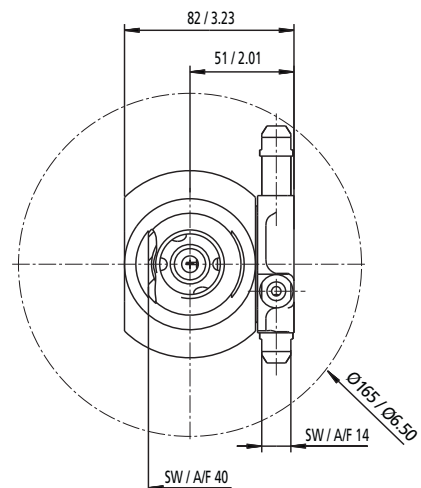
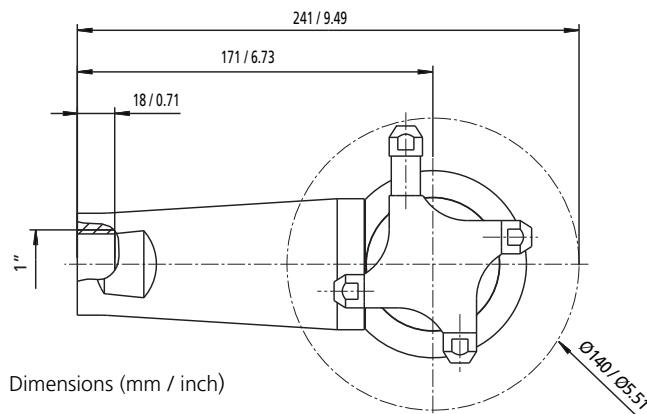
working pressure:	4 - 10 bar (58 - 145 psi)
Cleaning diameter:	max. 17 m (55.8 ft)
Flow rate:	5.6 - 10.5 m ³ /h (93 - 175 l/min / 24.7 - 46.2 USgpm)
Spray angle:	360°
Operating temperature:	max. 95 °C (203 °F)
Ambient temperature:	max. 140 °C (284 °F), 30 min
Insertion opening:	min. Ø 130 mm (5.12 inch)
Materials:	stainless steel 316L (1.4404), C-PTFE or PTFE, C-PEEK
Weight:	approx. 2.8 kg (6.2 lbs)
Preferred mounting position:	any

Version 1

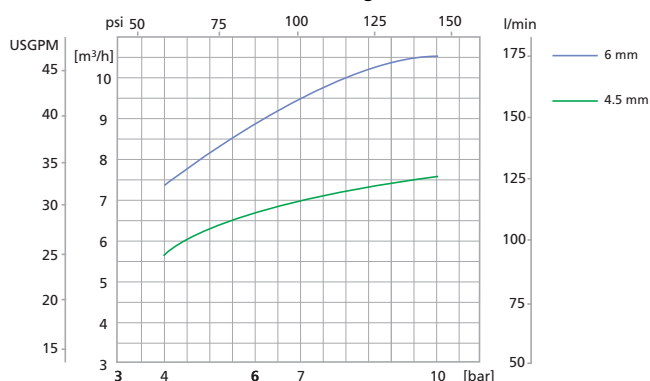
Version 1	Part number
1" BSP / 4.5 mm nozzles / C-PTFE ²	4660-4969-117
1" BSP / 6 mm nozzles / C-PTFE ²	4660-4969-118
1" BSP / 4.5 mm nozzles / PTFE	4660-4969-119
1" BSP / 6 mm nozzles / PTFE	4660-4969-120
1" NPT / 4.5 mm nozzles / C-PTFE ²	4660-4969-121
1" NPT / 6 mm nozzles / C-PTFE ²	4660-4969-122
1" NPT / 4.5 mm nozzles / PTFE	4660-4969-123
1" NPT / 6 mm nozzles / PTFE	4660-4969-124

¹ optional with Pin Fix connection

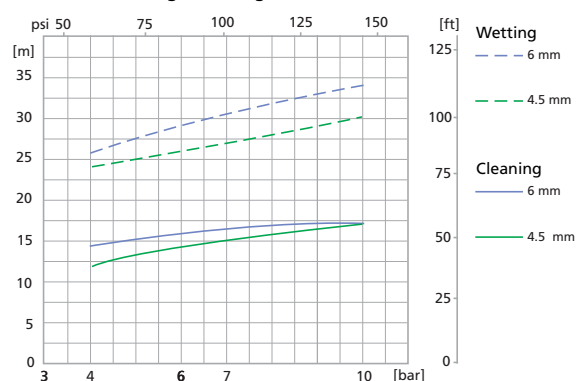
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Flow Rate versus Working Pressure



Cleaning / Wetting Diameter



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