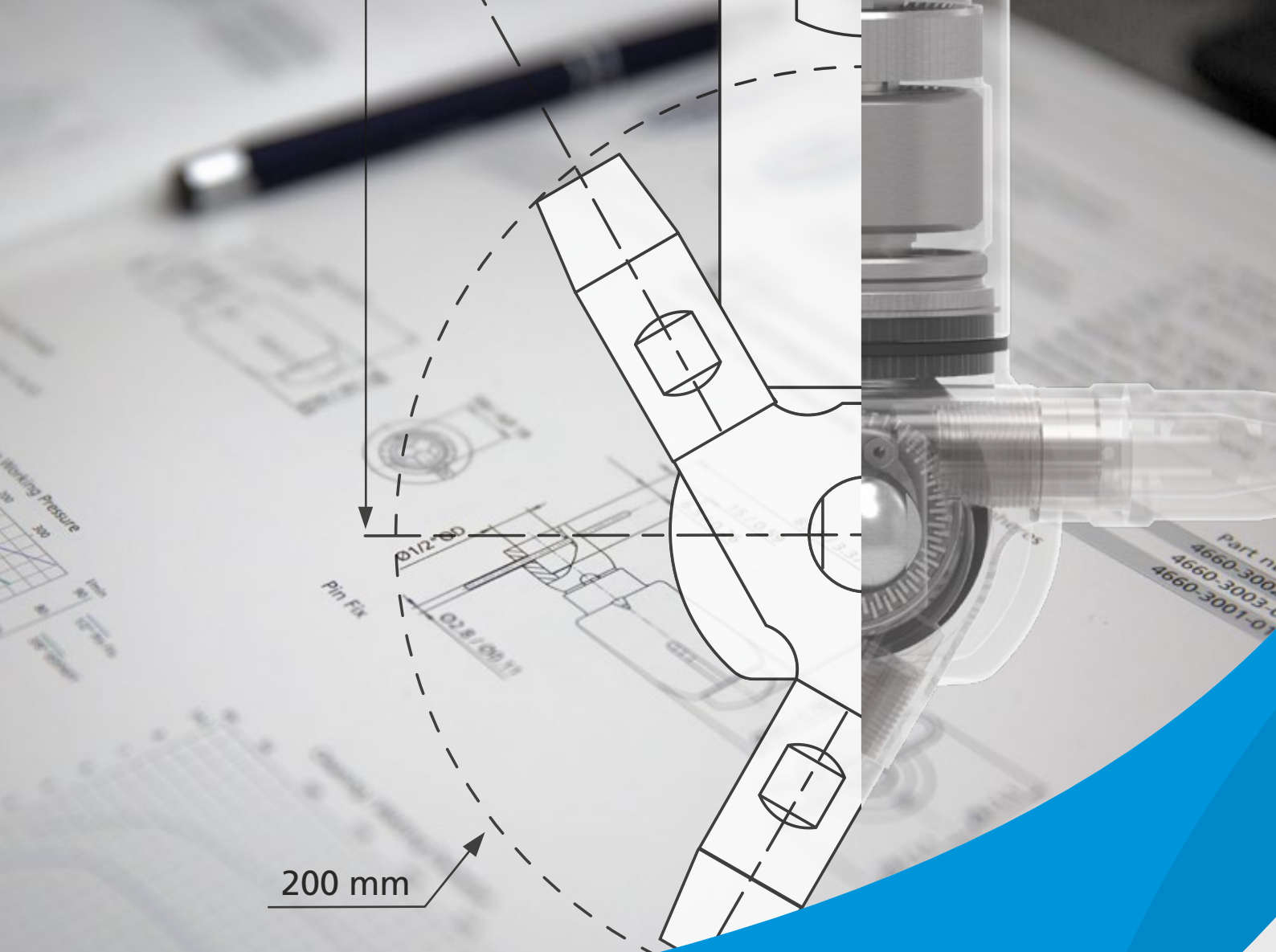


GEA Orbital Cleaner OC200

Technical brochure
Soiling classification IV

engineering for
a better world

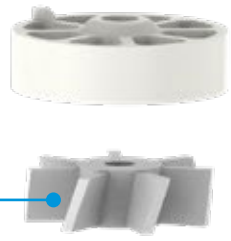
gea.com

One cleaner, many variations

Totally adjustable to the cleaning process, thus saving time and resources.

General specification / technical data	
Soiling classification	IV
Cleaning diameter	max. 36 m / 118 ft
Spray pattern	360°
Flow range	19 – 65 m³/h 317 – 1,083 l/min 84 – 286 US gpm
Pressure range	4 – 10 bar / 58 – 145 psi
Optimal pressure	6 – 8 bar / 87 – 116 psi
Full pattern time	8 – 21 min
Weight	5.7 – 7.3 kg
Operating temperature	max. 95 °C / 203 °F
Ambient temperature*	max. 140 °C / 284 °F
Insertion opening	Ø 200 – 370 mm Ø 7.88 – 14.57 inch**

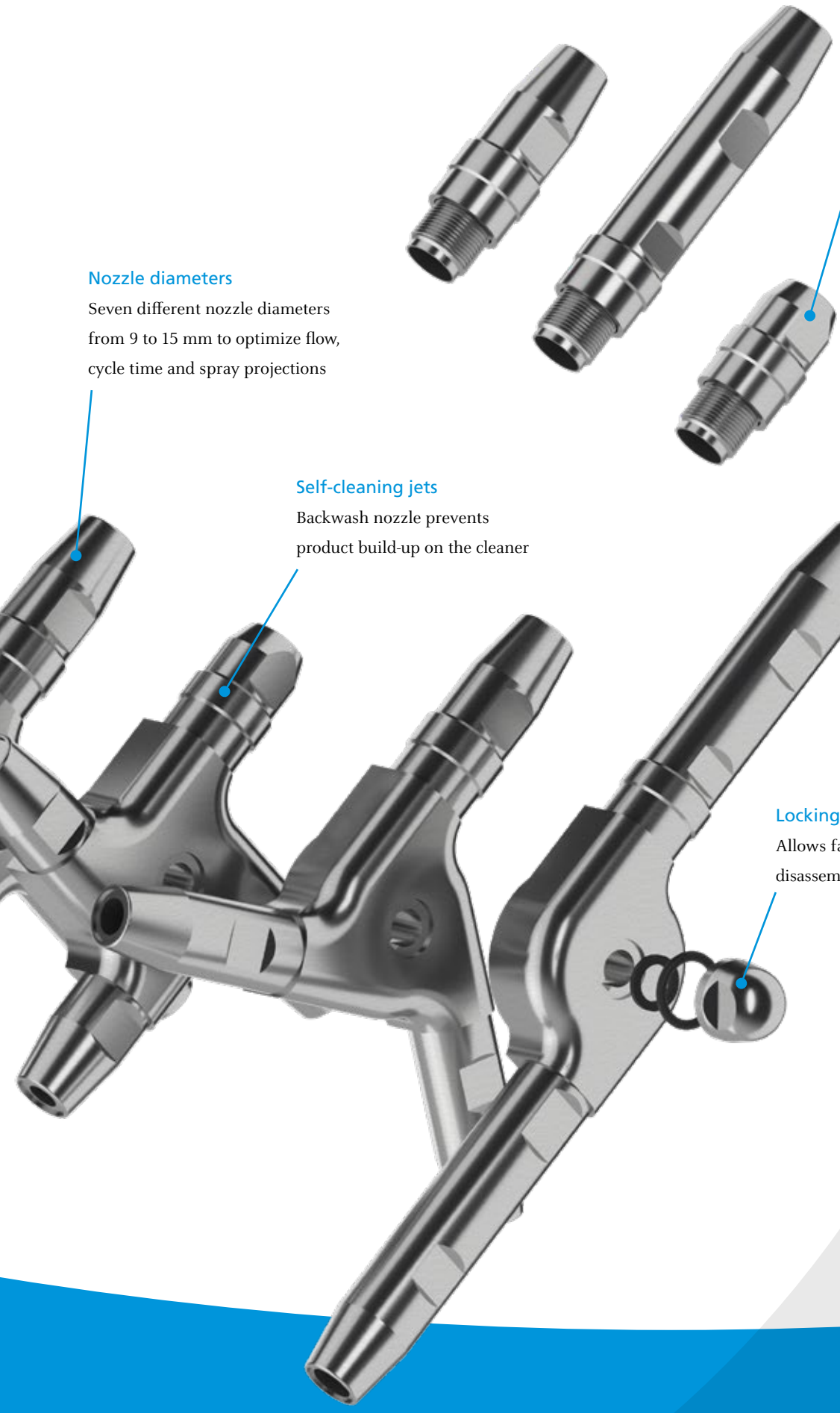
*not in operation
**depending on nozzle carrier and nozzle length



Rotor and stator
Various rotor and stator combinations offer flexibility on speed control

Main cleaner body
Standard central core of the cleaner remains constant with all options

Nozzle carrier
Three nozzle carrier options selected to meet requirements regarding insertion openings, flows and soiling levels



Nozzle lengths

Long, short and extended nozzle options to adjust impact and spray projection

Nozzle diameters

Seven different nozzle diameters from 9 to 15 mm to optimize flow, cycle time and spray projections

Self-cleaning jets

Backwash nozzle prevents product build-up on the cleaner

Locking mechanism

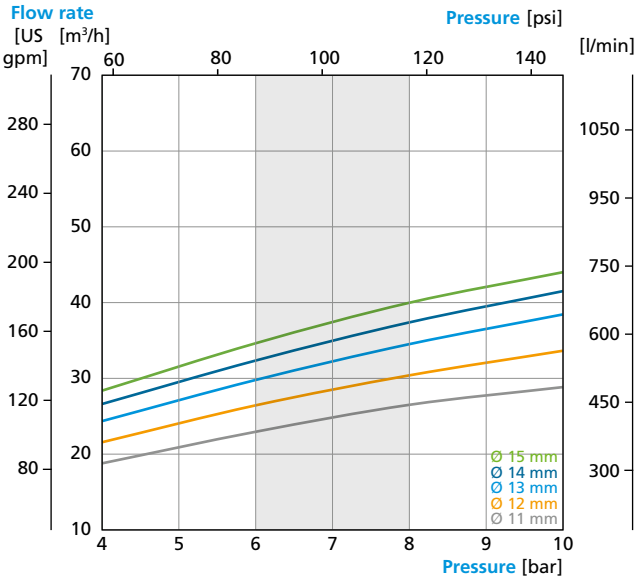
Allows fast and easy disassembly for maintenance

Performance data

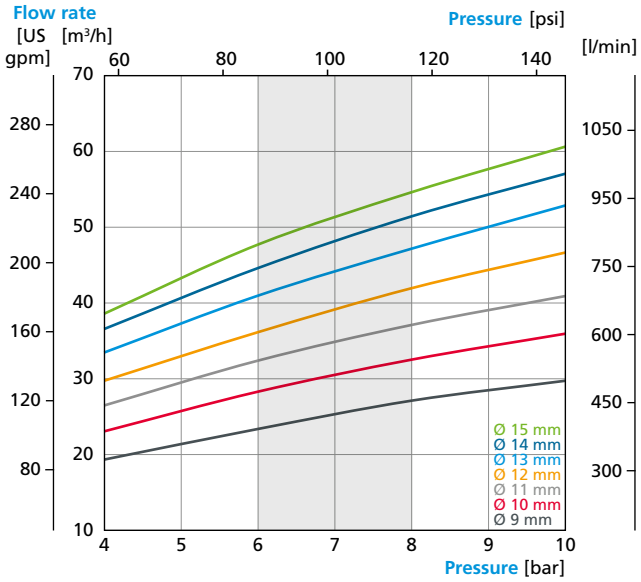
Flow performance data

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.

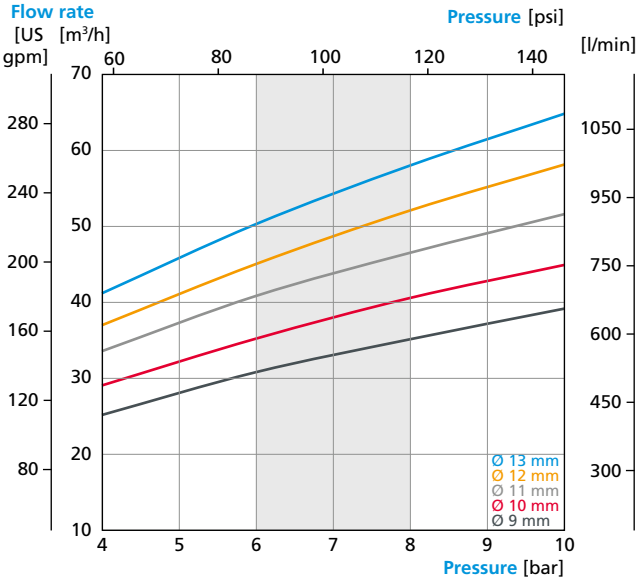
2-NOZZLE VERSION



3-NOZZLE VERSION

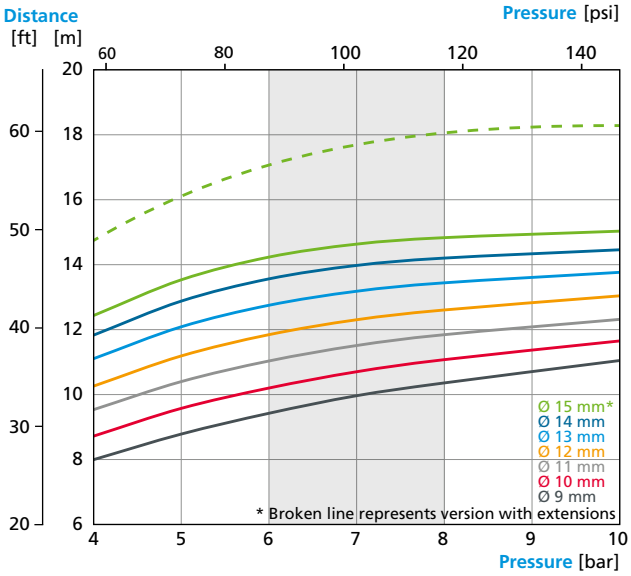


4-NOZZLE VERSION



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

DYNAMIC SPRAY PERFORMANCE (ALL VERSIONS)

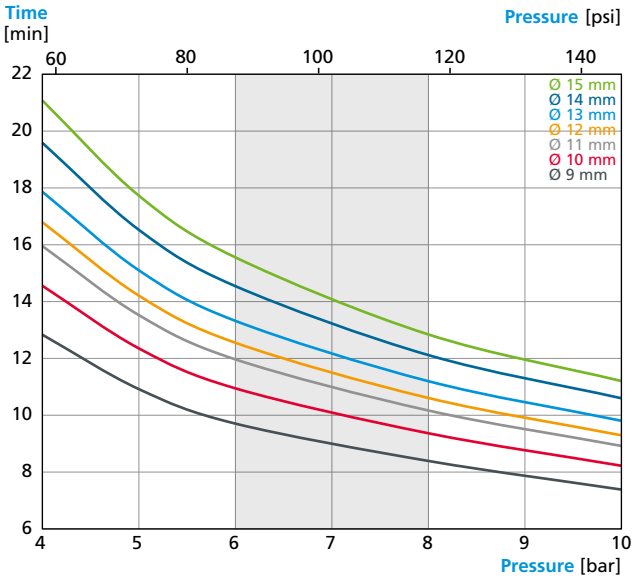


Dynamic spray performance

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 with extensions for the 15 mm nozzle. Our product experts are available to advise on the dynamic spray radius for other customized configurations.

MAX. FULL PATTERN TIME (ALL VERSIONS)



Full pattern time

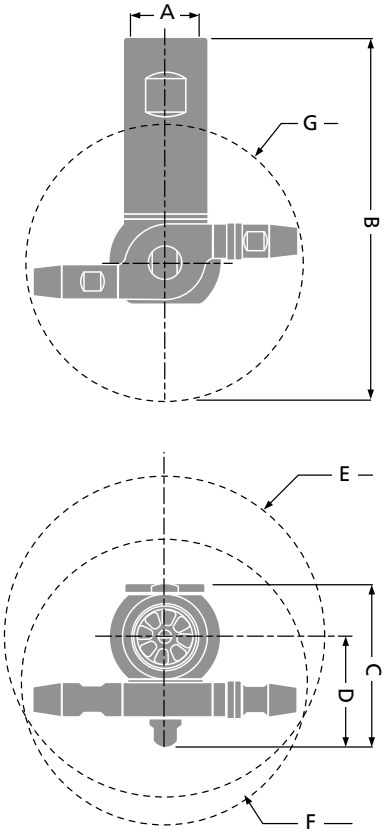
The diagram shows the maximum time to complete the full spray pattern with the optimum speed for each nozzle diameter. Our product experts are available to adjust the speed to customize cleaning performance where required. Depending on the customized configuration of the cleaner, the time for the full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

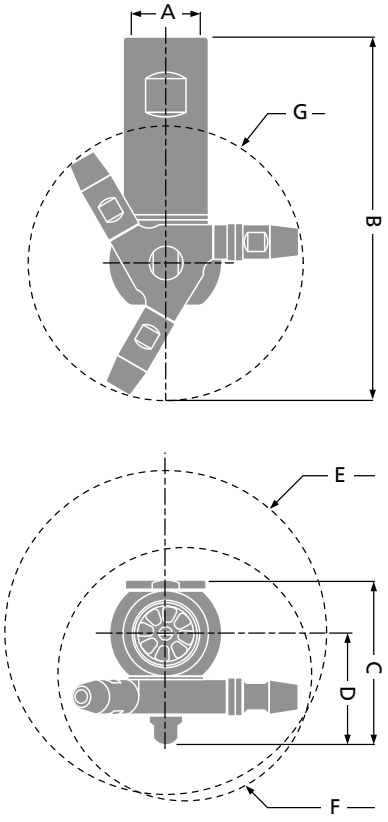
All diagrams are based on a cleaning medium of: density 1 kg/dm³, viscosity 1 mm²/s, temperature 20 °C

Dimensions

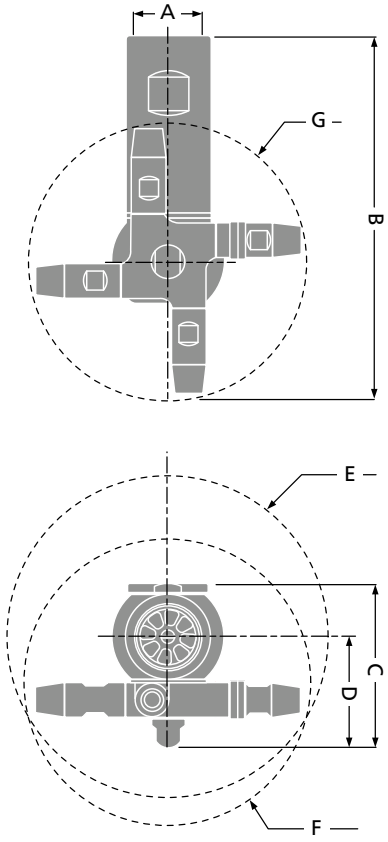
2-NOZZLE VERSION



3-NOZZLE VERSION



4-NOZZLE VERSION



DIMENSIONS

Nozzle length	A	B [mm]	C [mm]	D [mm]	E [mm]	F (Minimum insertion size) [mm] 2 & 4 nozzles	F (Minimum insertion size) [mm] 3 nozzles	G [mm]
Short	2" BSP × 22 mm or 2" NPT *	296	144	97	240	200	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*

Order information

Position	Description of the order code for the standard version							
1	**Cleaner designation**							
	OC200	OC200						
2	**Spray pattern**							
	0	360°						
3	**Nozzle carrier**							
	2	2 nozzles						
	3	3 nozzles						
	4	4 nozzles						
4	**Nozzle diameter**							
	9	Ø 9 mm	11	Ø 11 mm	13	Ø 13 mm	15	Ø 15 mm
	10	Ø 10 mm	12	Ø 12 mm	14	Ø 14 mm		
5	**Nozzle length**							
	S	Short nozzles						
	L	Long nozzles						
	LX	Long nozzles with extensions						
6	**Self-cleaning**							
	J	Yes						
	N	No						
7	**Full pattern time**							
	OPT	Optimum						
	C	Customized (needs to be defined in consultation with the product support)						
8	**Rotor**							
	e.g. 30	Rotor (pre-defined by the selection of optimum or can be customized by product support)						
9	**Matrix**							
	1	Matrix 1						
10	**Type of pipe connection**							
	BSP	BSP connection						
	NPT	NPT connection						
11	**Connection size**							
	2	2"						
12	**Material bearing**							
	11	A350/C-PTFE/PEEK						
13	**Material elastomer**							
	10	FKM						
	11	EPDM						
14	**Material body**							
	1	316L/1.4404						
15	**Surface finish (external)**							
	2	$R_a \leq 0.8$ µm						
17	**Certificates**							
	0	Without certificate						
	W	Material certificate EN10204-2.2						
	Z	Material certificate EN10204-3.1						
	K	FDA declaration of conformity*						
	E	Regulation (EU) No. 1935/2004, No. 2023/2006, No. 10/2011 declaration of conformity*						
	A	ADI free declaration of conformity*						
	U	USP class VI declaration of conformity*						
	O	Surface finish test & protocol						

The code is composed as follows depending on the chosen configuration:

Position	1	2	3		4	5	6	7	8	9	10	11	12	13	14	15	16**	17
Code	OC200	– 0	–	×			–	–	–	– 1	–	2	– 11	–	– 1	– 2	//	//

** Certificate: Availability depending on approval code*

*** Approval Code: Depending on cleaner configuration*

engineering for
a better world

We live our values.

Excellence • Passion • Integrity • Responsibility • GEA-versity

GEA is one of the largest technology suppliers for food processing and a wide range of other industries. The global group specializes in machinery, plants, as well as process technology and components. GEA provides sustainable solutions for sophisticated production processes in diverse end-user markets and offers a comprehensive service portfolio.

The company is listed on the German MDAX (G1A, WKN 660 200), the STOXX® Europe 600 Index and selected MSCI Global Sustainability Indexes.

GEA Germany

GEA Tuchenhagen GmbH
Am Industriepark 2–10
21514 Büchen, Germany

Tel +49 4155 49-0
Fax +49 4155 2035
gea.com/germany

05/20 © GEA Tuchenhagen GmbH. All rights reserved. Subject to modifications. Printed in Germany.