Orbital cleaner OC200 – modular orbital cleaner for large tanks



OC200

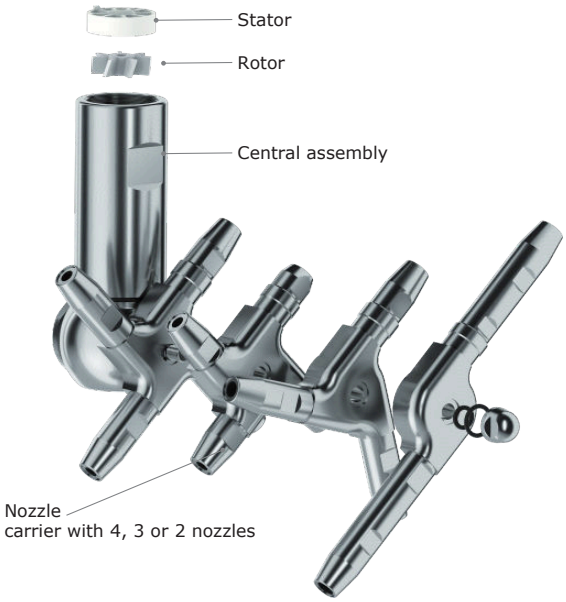
- Modular: 2, 3 or 4 nozzles
- Cleaning diameter up to 36 m
- Adjustable full pattern time
- Hygienic design

- Installation at any angle
- 283 – 1,083 LPM at 4 – 10 bar
- Nozzles Ø 8 – 15 mm, 3 lengths
- Self-cleaning jet optional
- Rotor exchangeable from above

The OC200 is a modular orbital cleaner for large tanks and vessels up to 36 m in diameter. It is driven by the cleaning liquid: two axes rotating relative to each other guide the nozzles so that the powerful, directed jets cover the entire vessel wall in a 360° pattern after one full pattern. The central assembly is the same for all versions. Nozzle carriers with two, three or four nozzles, nozzle diameters from 8 to 15 mm and short, long or extended nozzles adapt flow rate, throw distance and insertion opening to the process. The full pattern time is set by the combination of rotor and stator; the rotor can be exchanged from above without completely dismantling the cleaner. The optional self-cleaning jet prevents product build-up on the cleaner, and the locking mechanism makes maintenance quick and easy. The OC200 is free of ball bearings and hygienically designed, and it can be installed and operated at any angle. Hygienic welding nipples are available for the 2" BSP connection, as well as protection cages, service kits and assembly tools.

Technical data:

Max. cleaning diameter:	36 m (118 ft)
Spray pattern:	360°
Flow rate:	283 – 1,083 LPM (17 – 65 m³/h) (75 – 286 US gpm)
Pressure range:	4 – 10 bar (58 – 145 psi), optimum 6 – 8 bar (87 – 116 psi)
Full pattern time:	8 – 21 min, adjustable via the rotor
Nozzle carrier:	2, 3 or 4 nozzles
Nozzle diameter:	2 nozzles Ø 11 – 15 mm, 3 nozzles Ø 8 – 15 mm, 4 nozzles Ø 8 – 13 mm
Nozzle length:	short, long or long with extension
Self-cleaning:	with or without self-cleaning jet
Standard connection:	2" female thread BSP or NPT
Insertion opening:	min. Ø 200 – 370 mm (7.87 – 14.57 inch), see table
Mounting position:	any
Weight:	5.7 – 7.2 kg (12.6 – 15.9 lbs)
Materials:	stainless steel 316L (1.4404), PEEK, C-PTFE, Iglidur® A350; seals EPDM or FKM
Outside surface:	Ra ≤ 0.8 µm
Max. operating temperature:	95 °C (203 °F)
Max. ambient temperature:	140 °C (284 °F), not in operation, max. 30 min
Filter (recommended):	500 µm in the CIP supply line
Maintenance (guide values):	inspection 175 h, service 500 h
Certificates:	2.2 and 3.1 acc. to EN 10204, FDA, (EC) 1935/2004, ADI free, USP Class VI



Minimum insertion opening and weight

Nozzle carrier	Nozzle length	Insertion opening	Weight
4 nozzles	long	Ø 250 mm	6.5 kg
	short	Ø 200 mm	6.1 kg
	long with extension	Ø 370 mm	7.2 kg
3 nozzles	long	Ø 210 mm	6.1 kg
	short	Ø 200 mm	5.9 kg
	long with extension	Ø 320 mm	6.7 kg
2 nozzles	long	Ø 250 mm	5.9 kg
	short	Ø 200 mm	5.7 kg
	long with extension	Ø 370 mm	6.2 kg

Accessories

- **Welding nipple** for 2" BSP to DN 50, 2" IPS or 2" OD (1.4404), with O-ring EPDM or FKM
- **Protection cage** for short or long nozzles, 2" female thread
- **Service kit** A350/EPDM or A350/FKM
- **Assembly tools** for bearings D 8, D 14, D 18, D 20 and torque wrenches 1 – 5 Nm and 10 – 60 Nm

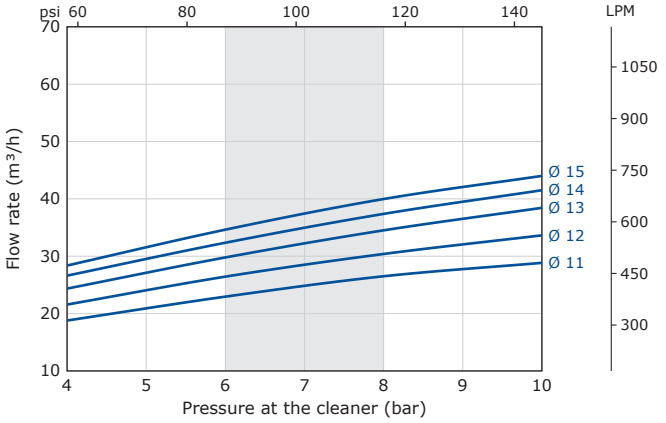
Nozzles: short, long, extension



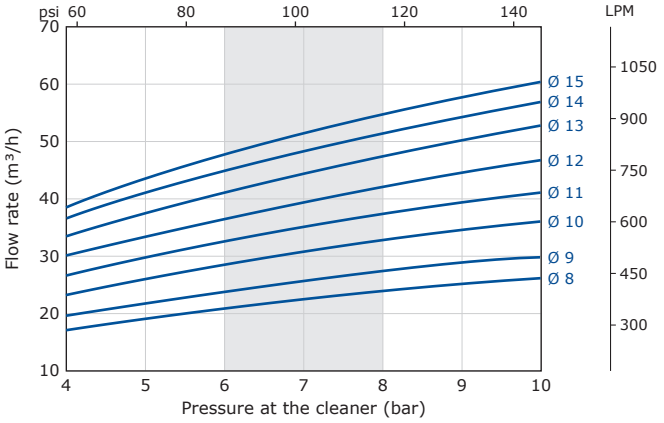
The data, technical data and information presented do not release the user from the obligation to check the suitability of the products supplied for the intended application. All information is without guarantee. (Status: 23.09.2026-71427321893-1888948-71042)

Orbital cleaner OC200 – performance data

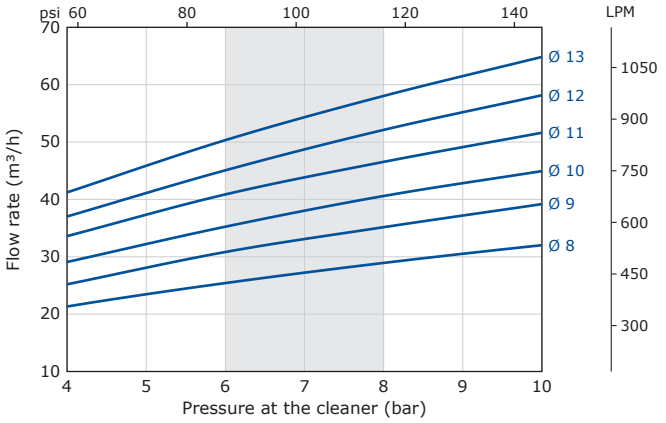
Flow rate with 2 nozzles



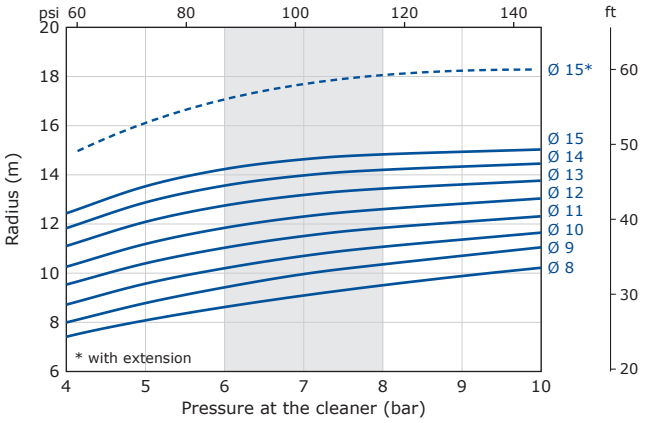
Flow rate with 3 nozzles



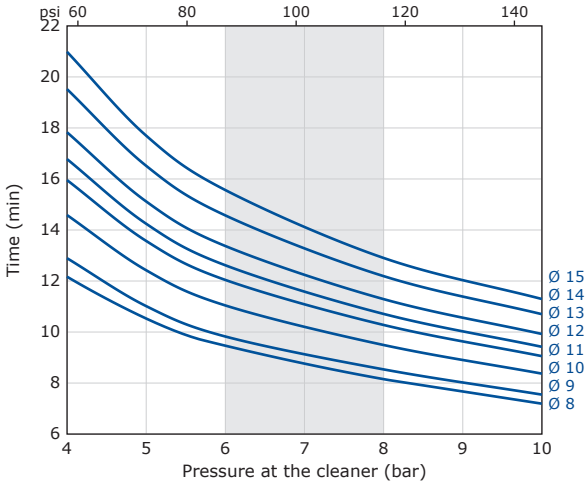
Flow rate with 4 nozzles



Cleaning radius (all versions)



Max. full pattern time (all versions)



How to read the diagrams

Each curve stands for one nozzle diameter (Ø in mm, at the right end of the curve). The grey band marks the optimum operating pressure of 6 to 8 bar.

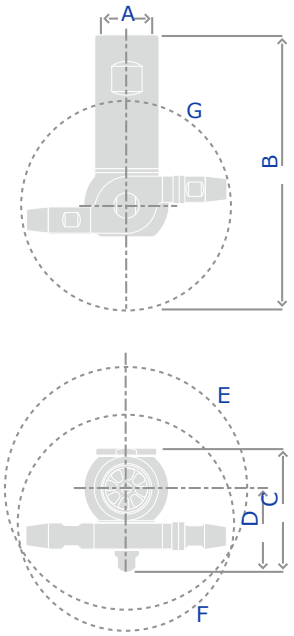
- **Flow rate:** flow through the cleaner depending on nozzle carrier and nozzle diameter.
- **Cleaning radius:** dynamic spray radius of the long nozzle with the recommended rotor and stator; dashed: Ø 15 mm with extension.
- **Full pattern time:** maximum time for one complete spray pattern at optimum speed. Depending on soiling and CIP cycle, a partial, complete or multiple pattern may be sufficient.

Other pattern times and spray radii on request. All diagrams apply to a cleaning medium with density 1 kg/dm³, viscosity 1 mm²/s and 20 °C; the pressure applies at the cleaner, not at the pump.

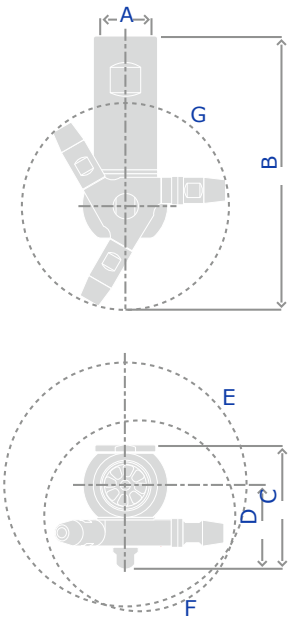
Orbital cleaner OC200 – dimensions and order code

Dimensions (mm)

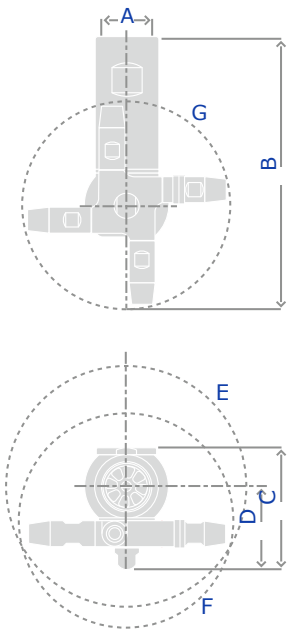
2 nozzles



3 nozzles



4 nozzles





Nozzle length	A	B	C	D	E	F (min. insertion opening)		G
						2 and 4 nozzles	3 nozzles	
short	2" BSP × 22 mm or 2" NPT	296	144	97	240	200	200	200
long		316			280	250	210	240
long with extension		376			400	370	320	360

A = connection. Hygienic welding nipples are available for the 2" BSP connection.

Product selection/order code

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

Pos.	Description	Code – selection features	
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	8	Ø 8 mm
		9	Ø 9 mm
		10	Ø 10 mm
		11	Ø 11 mm
		12	Ø 12 mm
		13	Ø 13 mm
		14	Ø 14 mm
		15	Ø 15 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 (defined with our product support)

* Availability depending on the approval code (configuration of the cleaner).

Pos.	Description	Code – selection features	
8	Rotor	e.g. 30	pre-defined by "optimum" or customized
9	Matrix	1	Matrix 1
10	Type of pipe connection	BSP	BSP thread
		NPT	NPT thread
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	Ra ≤ 0.8 µm
16	Approval code	//...	assigned depending on configuration
17	Certificates	0	Without certificate
		W	Factory certificate 2.2 acc. to EN 10204
		Z	Material certificate 3.1 acc. to EN 10204
		K	FDA declaration of conformity*
		E	DoC (EC) 1935/2004, 2023/2006, (EU) 10/2011*
		A	ADI free declaration of conformity*
		U	USP Class VI declaration of conformity*
		O	Surface finish test with protocol