

COMMERCIAL POOLS

FOUNTAINS



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FOUNTAIN JET NOZZLES

Spear nozzle

**DESCRIPTION**

Spear Nozzle is the most polyvalent nozzle for the design of any ornamental fountain.

They are made of AISI-304 stainless steel, which provides high sturdiness and rusting resistance, and provides a stylish finish to the fountain.

It has an 20° adjustable joint to correct the jet outlet in case of misalignment of manifolds or pipes, or to create parabolas without additional accessories.

Jet Ø (A)	Inlet	Code	Standard Pack	Standard weight in kg	Standard volume in m ³
Spear Nozzle					
Ø 4 mm	G 3/8" M	67496	25	0.045	0.0027
Ø 6 mm	G 3/8" M	66639	25	0.043	0.0027
Ø 8 mm	G 1/2" M	66640	15	0.085	0.0027
Ø 10 mm	G 1/2" M	66641	15	0.08	0.0027
Ø 12 mm	G 1" M	66642	1	0.315	0.0008
Ø 14 mm	G 1" M	66643	1	0.295	0.0008
Ø 16 mm	G 1 1/2" M	66644	1	0.845	0.0027
Ø 20 mm	G 1 1/2" M	66645	1	0.795	0.0027



Cascade swivel nozzle

DESCRIPTION

Cascade nozzle is a jet that mixes water and air creating a solid and conic column of water visible from any direction. Furthermore, it contributes to oxygen enrichment of the water.

Those nozzles are water level depending, so must be installed on a determinate height. Strong waves can cause changes in the height of the jet.

They are entirely made of AISI 316 stainless steel, which provides high sturdiness and oxidation resistance, and provides a stylish finish at the fountain.

They also incorporate a swivel on its base in order to take up inlet inclinations.

Jet Ø (A)	Inlet	Water level in mm	Code	Standard Pack	Standard weight in kg	Standard volume in m ³
Cascade swivel nozzle						
Ø 35 mm	G 1/2" F	20	73792	1	0.5	0.0027
Ø 50 mm	G 1" F	25	73793	1	0.7	0.0027
Ø 80 mm	G 1 1/2" F	30	73794	1	2.1	0.0115
Ø 100 mm	G 2" F	35	73795	1	3.9	0.0185
Ø 125 mm	G 2 1/2" F	40	73796	1	5.1	0.0271

Foamy nozzle



66689

66690



71335

DESCRIPTION

Foamy Nozzle produces a very sparkling and consistent jet. The ornamental effect doesn't depend on the water level and it's very wind resistant, generating a great uniformity on the fountain.

Furthermore, it contributes to an oxygen enrichment of the water.

There are available two models made entirely of AISI-316 stainless steel, which provides high sturdiness and rusting resistance, and provides a stylish finish at the fountain. For the 35mm model, a stainless steel model and plastic interior is available.

Jet Ø (A)	Inlet	Code	Standard Pack	Standard weight in kg	Standard volume in m ³
Foamy nozzle					
Ø 35 mm	G 1" M	66689	1	0.79	0.0021
Ø 50 mm	G 1" M	66690	1	1.1	0.0027
Ø 32 mm	G 1" M	71335	1	0.45	0.0021

FOUNTAIN JET NOZZLES

TFE nozzle



DESCRIPTION

TFE nozzle produces a sparkling and consistent jet with less flow requirements to similar nozzles with the same diameter. The ornamental effect doesn't depend on the water level and it is very wind resistant, generating a great uniformity on the fountain.

It is made entirely of AISI 316 stainless steel, which provides high sturdiness and rusting resistance, and provides a stylish finish at the fountain.

Jet Ø (A)	Inlet	Code	Standard Pack	Standard weight in kg	Standard volume in m ³
TFE nozzle					
Ø 25 mm	G 1" M	72475	1	0.5	0.0027
Ø 32 mm	G 1 1/4" M	72476	1	0.65	0.0027
Ø 40 mm	G 1 1/2" M	72477	1	0.98	0.0033

Vulcano nozzle



DESCRIPTION

Vulcano nozzle produces a set of parabolic jets reaching different heights and lengths, achieving a nice and visible water effect.

They are entirely made of AISI 316 stainless steel, which provides high sturdiness and oxidation resistance, and provides a stylish finish at the fountain.

Jet Ø (A)	Dimensions	Code	Standard Pack	Standard weight in kg	Standard volume in m ³
Vulcano nozzle					
Ø 1x6 mm + 20x3 mm	80 x 70 mm	67204	1	0.59	0.0011

Flor de Lis



DESCRIPTION

Fleur de lis nozzle produces a set of parabolic regulable jets, reaching different heights and lengths, achieving a nice and visible water effect.

It is entirely made of AISI316 stainless steel, which provides high sturdiness and oxidation resistance, and provides a stylish finish at the fountain.

Water Connection in mm	Dimensions A x B in mm	Code	Standard Pack	Standard weight in kg	Standard volume in m ³
Flor de Lis					
1 1/2" M	190 x 168	73810	1	3.53	0.0077
2" M	190 x 219	73811	1	4.85	0.0115
2 1/2" M	221 x 254	73812	1	7.4	0.0225
3" M	200 x 254	73813	1	7.22	0.0225
4" M	255 x 390	73814	1	18.98	0.0448

Nozzles 73810 and 73811: 1x10mm + 6x6mm + 12x6mm.

Nozzles 73812: 1x12mm + 6x8mm + 12x8mm.

Nozzles 73813: 1x10mm + 12x6mm + 24x6mm.

Nozzles 73814: 1x14mm + 6x12mm + 12x12mm.

Bouquet nozzle



DESCRIPTION

Bouquet nozzle produces a set of parabolic regulable jets, reaching different lengths, achieving a nice and visible water effect.

It is entirely made of AISI316 stainless steel, which provides high sturdiness and oxidation resistance, and provides a stylish finish at the fountain.

Water Connection in mm	Dimensions A x B in mm	Code	Standard Pack	Standard weight in kg	Standard volume in m ³
Bouquet nozzle					
1 1/4" M	190 x 129	73815	1	2.11	0.0077
2" M	190 x 204	73816	1	4.43	0.0077
3" M	220 x 254	73817	1	6.2	0.0225
3" M	220 x 254	73818	1	7	0.0225

Nozzles 73815: 1x8mm + 9x6mm.

Nozzles 73816: 1x8mm + 24x4mm.

Nozzles 73817: 1x14mm + 12x10mm.

Nozzles 73818: 1x14mm + 24x10mm.

Mushroom nozzle



DESCRIPTION

Mushroom nozzle produces a perfectly laminar and semi-spherical transparent lamina. When falling it creates a completely continuous bell-shaped effect.

They are entirely made of AISI 316 stainless steel, which provides high sturdiness and oxidation resistance, and provides a stylish finish at the fountain.

Dimensions	Inlet	Code	Standard Pack	Standard weight in kg	Standard volume in m ³
Mushroom nozzle					
300x80 mm	G1" F	67206	1	1.15	0.0055

SPECIAL JETS

Glassy jet



DESCRIPTION

Parabolic laminar nozzle that does not spill a single drop of water. From start to finish, a perfect parabolic path is followed that is created on the basis of the laws of fluid dynamics.

The Glassy jet shines light in the water as it follows its path. It only illuminates the water and does not cause any light pollution.

It is made of AISI 316 stainless steel to ensure maximum resistance to rust and to give it a high quality finish.

Light type	Dimensions L x W x H in mm	Voltage in V	Code	Standard Pack	Standard weight in kg	Standard volume in m ³
Glassy jet						
RGB - DMX	306 x 234 x 384	24 VDC	66559	1	6.41	0.0448
RGB	306 x 214 x 384	12 VAC	66559RGB	1	6.41	0.0448
RGB - DMX	447 x 336 x 563	24 VAC	66561	1	24.1	0.0494

Glassy jet with jumping effect



DESCRIPTION

Parabolic laminar nozzle that does not spill a single drop of water. From start to finish, a perfect parabolic path is followed that is created on the basis of the laws of fluid dynamics.

The Glassy jet shines light in the water as it follows its path. It only illuminates the water and does not cause any light pollution.

There is also the Jumping effect option, which throws small streams of water across the parabolic path.

It is made of AISI 316 stainless steel to ensure maximum resistance to rust and to give it a high quality finish.

Light type	Dimensions L x W x H in mm	Voltage in V	Code	Standard Pack	Standard weight in kg	Standard volume in m ³
Glassy jet with jumping effect						
RGB - DMX	358 x 234 x 475	24 VDC	66560	1	11.96	0.0271
RGB - DMX	524 x 336 x 696	24 VDC	66562	1	28.8	0.2366

Rocket jet



DESCRIPTION

The Rocket jet gives the effect of an explosion of water from the ground that rises up in a split second to above the height of really tall buildings as it can reach heights of up to 50 meters.

The explosion of water creates a perfect vertical line that will be the center of attention anywhere.

The lighting highlights the height of the water to turn it into a powerful beam of light, which rises at high speeds and draws colored lines on the water.

The combination of several units of this effect will create spectacular high speed sequences.

Jet height in m	Dimensions L x W x H in mm	Water level in mm	Code	Standard Pack	Standard weight in kg	Standard volume in m ³
Rocket jet						
15	358 x 248 x 727	620	66564	1	18.2	0.1695
30	530 x 515 x 887	720	66565	1	58.1	0.3628
50	642 x 514 x 1558	1320	66566	1	70	0.8008
Rocket jet horizontal						
20	1350 x 305 x 630	570	66563	1	25	0.3189

Switch S System



Please ask us about the characteristics of the different models

DESCRIPTION

Switch System is a dynamic jet ideal for interactive fountains such as Funsquare type, to produce fast water games with individual control for each installed jet.

The design of this jet allows state changes without water hammer in the installation.

It has many tile models being able to choose between different types of round and square designs.

- Dimensions (mm): 300 x 300 x 371 / D.400 x 371.
- Voltage: 24 VDC.
- Power (without LED): 25 W.

	Code	Standard Pack	Standard weight in kg	Standard volume in m ³
Switch S System				
Square Cover / 1xNano LED	66569	1	7.5	0.0814
Circular Cover / 1xNano LED	73351	1	7.5	0.0814
Circular Cover / 2xNano LED	73352	1	7.8	0.0814
Circular Cover / 1xMini LED	73353	1	7.8	0.0814
Circular Cover / 2xMini LED	73354	1	8.1	0.0814
Circular Cover / 1xCircular 200 LED I1264	73355	1	8.2	0.0814
Circular Cover / 1xCircular 200 LED I1265	73356	1	8.2	0.0814
Square Cover / 2xNano LED	73357	1	7.8	0.0814
Square Cover / 1xMini LED	73358	1	7.8	0.0814
Square Cover / 2xMini LED	73359	1	8.1	0.0814
Square Cover / 1xCircular 200 LED I1264	73360	1	8.2	0.0814
Square Cover / 1xCircular 200 LED I1265	73361	1	8.2	0.0814

Switch L System + Niche



66570



66572

DESCRIPTION

Switch System is a dynamic jet ideal for interactive fountains such as Funsquare type, to produce fast water games with individual control for each installed jet. The design of this jet allows state changes without water hammer in the installation.

For dry fountains there is the option of the Switch System with 316 stainless steel niche and integrated LED RGB-DMX projectors.

Switch L System

- Dimensions (mm): 210 x 120 x 261.
- Voltage: 24 VDC.
- Power (without LED): 25 W.

Switch L Niche

- Dimensions (mm): 494 x 494 x 500.
- Material: Stainless steel 316.
- Weight (mm): 19 kg.

	Code	Standard Pack	Standard weight in kg	Standard volume in m ³
Switch L System	66570	1	6.6	0.0185
Switch L Niche	66572	1	19	0.1775

FOUNTAIN PUMPS

DMX pump S



DESCRIPTION

The DMX Variable Pump S allows to control the jet heights individually, creating a multitude of effects and figures in dynamic fountains. It is ideal to be installed just below the Spear Nozzle between 12 and 14 mm and Foamy Nozzles.

The device incorporates the height variation system through DMX protocol, what facilitates the control of the jets and reduces considerably the size and cost of electrical cabinets.

- Dimensions (mm): 254 x 97 x 121.
- Voltage: 24 VDC.
- Power: 100 W.

	Code	Standard Pack	Standard weight in kg	Standard volume in m ³
DMX variable pump S	67410	1	3	0.0185

DMX pump L



DESCRIPTION

The DMX Variable Pump L allows to control the height of the jets individually, creating a multitude of effects and figures in dynamic fountains. It is ideal to be installed just below the Spear Nozzle between 12-20 mm and Foamy Nozzles.

The device incorporates the height variation system of variation through DMX protocol, what facilitates the control of the jets and reduces considerably the size and cost of the electrical cabinets.

- Dimensions (mm): 500 x 366 x 239.
- Voltage: 220 - 240 VAC.
- Power: 720 W.

	Code	Standard Pack	Standard weight in kg	Standard volume in m ³
DMX variable pump L	67411	1	23	0.1127

Submersible pump DF with prefilter



DESCRIPTION

Submersible DF pumps has a prefilter incorporated which helps to the correct working of the device. It has a large filter surface, so increases highly filter clogging time.

Incorporates supports to ease horizontal pump installation.

There are available some pump models according to the needs of each installation.

It is a very robust and resistant to rusting model manufactured in AISI 304 stainless steel.

- Minimum water depth: 300 mm.

Power in W	Voltage in V	Dimensions L x W x H in mm	Code	Standard Pack	Standard weight in kg	Standard volume in m ³
0.55	230 ~3	402 x 232 x 234	70173	1	11.5	0.0342
0.75	230 ~3	417 x 232 x 234	70175	1	11.8	0.0342
1.1	230 ~3	447 x 232 x 234	70177	1	12.1	0.0342
1.5	230 ~3	447 x 232 x 234	70179	1	12.5	0.0342
0.55	400 ~3	402 x 232 x 234	70180	1	11.5	0.0342
0.75	400 ~3	417 x 232 x 234	70181	1	11.8	0.0342
1.1	400 ~3	447 x 232 x 234	70184	1	18	0.0650
1.5	400 ~3	447 x 232 x 234	70190	1	19.4	0.0650

Directional projector Mini



DESCRIPTION

This spotlight is especially designed for fountains, gardens and decorative aquatic installations. It can be installed indiscriminately submerged or outside the water.

It is supplied with screws and studs for fitting.

Possibility of narrow, medium or wide lens.

	Code	Standard Pack	Standard weight in kg	Standard volume in m ³
Directional projector Mini	I0406	-	-	-
Directional projector Mini+	I0411	-	-	-

TECHNICAL FEATURES

	Mini				Mini+			
	Monocolour	Multicolour	MDMX	MWDMX	Monocolour	Multicolour	MDMX	MWDMX
Consumption	4W (6VA)	4W (7VA)	4W (4VA)	5W (5VA)	6W (9VA)	6W (9VA)	6W (6VA)	8W (8VA)
Voltage	12 VAC	12 VAC	24 VAC	24 VAC	12 VAC	12 VAC	24 VAC	24 VAC
Lumens	315 lm	186 lm	186 lm	300 lm	550 lm	250 lm	250 lm	430 lm
Efficiency	78.7 lm/W	46.5 lm/W	46.5 lm/W	60 lm/W	91.66 lm/W	55 lm/W	55 lm/W	53.75 lm/W
Life Span	L80 - 60000h							
Protection level	IP68							

Circular Ø200



DESCRIPTION

Projector designed for fitting directly to the jets of ornamental fountains, thus ensuring that they are properly illuminated and emit an even source of light.

- Consumption: 16 W.
- Voltage: 24 VDC.
- Lumens: 1450 lm (Monocolour) / 1000 lm (MWDMX).
- Efficiency: 91 lm/W (Monocolour) / 62.5 lm/W (MWDMX).
- Life Span: L80 - 60000 h.
- Protection level: IP68.

	Code	Standard Pack	Standard weight in kg	Standard volume in m ³
Circular Ø200 1" ½ fitting	I1261	-	2.9	-
Circular Ø200 1" fitting	I1262	-	2.9	-
Circular Ø200 non threaded fitting	I1263	-	2.9	-
Circular Ø200 flat mounting	I1264	-	3.3	-
Circular Ø200 dry fountain	I1265	-	3.3	-

* Consult mounting accessory.

Circular Ø300



DESCRIPTION

A large projector with high luminous performance for fitting directly to the jets of ornamental fountains of up to 1" ½. Made of stainless steel.

- Consumption: 80 W.
- Voltage: 24 VDC.
- Lumens: 7200 lm (Monocolour) / 4100 lm (MWDMX).
- Efficiency: 90 lm/W (Monocolour) / 51 lm/W (MWDMX).
- Life Span: L80 - 60000 h.
- Protection level: IP68.

	Code	Standard Pack	Standard weight in kg	Standard volume in m ³
Circular Ø300	I1255	-	4.4	-

Junction boxes



DESCRIPTION

The Junction Boxes are the best way to ensure watertight connections between cable inside the pool of the fountain. With its original design allow the connection of different devices with the same Junction Box.

It is a very robust and resistant to oxidation model manufactured entirely in AISI 316 stainless steel.

- Wire diameter: 5-14 mm.
- Protection class: IP 68.

Number of inlets	Dimensions L x W x H in mm	Code	Standard Pack	Standard weight in kg	Standard volume in m ³
6	224 x 190 x 119	66602	1	3	0.0103
10	224 x 240 x 119	66603	1	3.78	0.0103
16	324 x 290 x 119	66604	1	6.15	0.0408
32	324 x 290 x 131	66605	1	6.97	0.0408

Cable inlet fittings



DESCRIPTION

The Cable inlets Fittings are the best way to ensure watertight connections with cable through the walls of the fountain. With its original design allow the connection of different devices with the same Cable Inlet Fitting.

It is a very robust and resistant to oxidation model manufactured entirely in AISI 316 stainless steel.

- Wire diameter: 5-14 mm.
- Protection class: IP 68.

Number of inlets	Connection	Dimensions L x W x H in mm	Code	Standard Pack	Standard weight in kg	Standard volume in m ³
1	1"G	70 x 48 x 122	66598	1	0.25	0.0027
3	2"G	80 x 70 x 122	66599	1	0.52	0.0027
5	3"G	175 x 175 x 152	66600	1	2.55	0.0077
8	4"G	215 x 215 x 152	66601	1	3.65	0.0210

Cable inlet fitting boxes



DESCRIPTION

The Cable inlet Fitting Box are the best way to ensure watertight connections with cable through the walls of the fountain and at the same time interconnect different devices.

It is a very robust and resistant to rusting model manufactured entirely in AISI 316 stainless steel.

- Wire diameter: 5-14 mm.
- Protection class: IP 68.

Number of inlets	Connection	Dimensions L x W x H in mm	Code	Standard Pack	Standard weight in kg	Standard volume in m ³
16	3"G	290 x 290 x 263	66606	1	6.96	0.0408
32	3"G	290 x 290 x 275	66607	1	7.78	0.0408
16	4"G	290 x 290 x 263	66608	1	7.31	0.0408
32	4"G	290 x 290 x 275	66609	1	8.12	0.0408

Swivel



DESCRIPTION

The Swivel is a perfect adapter for all types of nozzles. Corrects the unevenness produced during the development of the work. The Swivel also allows positioning any type of nozzle in any desired angle.

Material	Connection	Dimensions A x B in mm	Code	Standard Pack	Standard weight in kg	Standard volume in m ³
AISI 316	1"G	70 x 68	66930	1	0.635	0.0008
AISI 316	1 1/2"G	93 x 89	66929	1	1.15	0.0021
Nickel plated brass	1"G	49 x 85	73347	1	0.4	0.0008



Waterproof junction

DESCRIPTION

This robust waterproof junction allows to make IP68 connections, both for electrical and communication cables.

It is available in two different models, depending on the cable diameter to be connected.

Both models are made of AISI 316 stainless steel to ensure high protection against rust and weathering.

- Dimensions: 171 x 76 x 76 mm.
- Material: SS 316 / Brass / TPE.
- Protection class: IP 68.

Junction	Cable diameter range in mm	Code	Standard Pack	Standard weight in kg	Standard volume in m ³
D14	14 - 5	70685	1	0.68	0.0027
D20	20 - 11	70684	1	0.69	0.0027

Projects



Great Exhibition of the North – Newcastle, United Kingdom



Kashirskaya – Moscow, Russia



Vadi Istanbul – Istanbul, Turkey



Central Park – Almaty, Kazakhstan



The Harbor Merida – Merida, Mexico



Nazarbaev Street Funsquare – Almaty, Kazakhstan



Boscolo Airone Hotel – Venice, Italy



Astana Expo 2017 – Astana, Kazakhstan

Projects



Gravellona Toce – Verbano-Cusio-Ossola, Italy



Souq Waqif Funsquare – Doha, Qatar



Mega Silk Way – Astana, Kazakhstan



La Pedrera Park – San Luis, Argentina



Moremall Fountain – Sochi, Russia



Catalonia Square Fountains – Barcelona, Spain



Timisoara Sunsquare – Timisoara, Romania



Panama City – Panama

Projects



Taman Anggrek Funsquare – Jakarta, Indonesia



Slavyansky Shopping Mall – Moscow, Russia



Baku Geyser (140 m) – Baku, Azerbaijan



Yeni Hayat Mall – Baku, Azerbaijan



Madrid Rio Fountains – Madrid, Spain



Central Square – Dimitrovgrad, Bulgaria



Sant Adria de Besos Funsquare Barcelona, Spain



Sant Julià de Ramis Funsquare Sant Julià de Ramis, Spain

Projects



Almaty Shell Fountains – Almaty, Kazakhstan



Constitution Square – Lleida, Spain



Zenia Boulevard – Orihuela, Spain



Puerto Venecia – Zaragoza, Spain



Funsquare in Lodz – Lodz, Poland



Style Outlets Viladecans – Barcelona, Spain



Barris Central Park – Barcelona, Spain



Rehabilitations of Classical Fountains

DISCOVER OUR _____

FOUNTAINS

_____ The heart of life



STAINLESS STEEL MAINTENANCE: FREQUENCY DEPENDS ON POOL ENVIRONMENT AND CHLORINATION

POOL ENVIROMENT	CHLORINATION	MAINTENANCE FREQUENCY	CLEANING & MAINTENANCE	CLEANING FREQUENCY
Outdoor pools, inland	Chlorine	Standard	Rinse with fresh water	Weekly
			Wash with soap and water	Monthly
Outdoor pools, inland	Salt	High	Rinse with fresh water	Weekly
			Wash with soap and water	Weekly
			Remove any visible signs of rust or staining with a nylon brush	Monthly
Outdoor pools, coastal regions	Chlorine or salt	High	Rinse with fresh water	Weekly
			Wash with soap and water	Weekly
			Remove any visible signs of rust or staining with a nylon brush	Monthly
Indoor pools, all regions	Chlorine or salt	High	Rinse with fresh water	Weekly
			Wash with soap and water	Weekly
				Monthly

AstralPool' tips for lengthening the lifespan of our pools' stainless steel components

Keep the pool water in the following ranges of values:

Water pH between: 7.2-7.6

Alkalinity between: 100-175 ppm

Disinfection using Cl: 0.5-2 gr/m³

Disinfection using bromine between: 2-5 g/m³

Do not use salt-based disinfection system if the concentration of NaCl is > 6000ppm.

Water hardness control: 150-250 ppm.

Start with a weekly manual clean until the right frequency is found that matches a pool's requirements.

Keep gaps, joints and the water line clean and free of particles.

In facilities with starting blocks, pay special attention to the underside to prevent rusting from accumulated condensation.



FOR FURTHER INFORMATION
www.astralpool.com

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