

Sime DUPLEX

Sime Duplex 2-inch Full Circle Impact Sprinkler Instruction Manual

Model: DUPLEX

INTRODUCTION

This manual provides detailed instructions for the proper setup, operation, and maintenance of your Sime Duplex 2-inch Full Circle Impact Sprinkler. Designed for efficient and wide-area irrigation, this sprinkler features a robust cast aluminum body and a spring arm impact drive mechanism. Please read these instructions carefully before installation and use to ensure optimal performance and longevity of your product.

The Sime Duplex sprinkler is engineered for full-circle operation, offering a throw radius of 65.6 to 152.6 feet and operating pressures between 22 and 90 PSI, with flow rates from 42 to 220 GPM. It includes various nozzles to suit different irrigation requirements.

PRODUCT OVERVIEW



Figure 1: The Sime Duplex 2-inch Full Circle Impact Sprinkler, shown with its main body, impact arm, and a selection of interchangeable nozzles. The sprinkler features a durable cast aluminum construction and a brass base connection.

- **Cast Aluminum Body:** Ensures durability and resistance to environmental factors.
- **2-inch FNPT Base:** Standard threaded connection for easy integration into irrigation systems.
- **Spring Arm Impact Drive:** Provides reliable and consistent rotation for uniform water distribution.
- **Interchangeable Nozzles:** Allows for customization of flow rate and throw radius based on specific irrigation needs.

SETUP INSTRUCTIONS

1. **Unpacking:** Carefully remove all components from the packaging. Verify that all parts, including the sprinkler body and various nozzles, are present and undamaged.
2. **Nozzle Selection:** Refer to the "Nozzle Performance Chart" in the Specifications section to select the appropriate nozzle for your desired flow rate, throw radius, and operating pressure. The sprinkler comes with a set of nozzles to choose from.
3. **Nozzle Installation:** Insert the chosen nozzle into the sprinkler head. Ensure it is seated firmly to prevent leaks and maintain spray pattern integrity.
4. **Mounting:** Securely attach the sprinkler to a stable riser or stand using its 2-inch FNPT (Female National Pipe Taper) threaded base. Ensure the connection is watertight using appropriate thread sealant or tape. The sprinkler should be mounted vertically for optimal performance.
5. **System Connection:** Connect your water supply line to the sprinkler's base. Ensure all connections are tight and free of leaks before activating the system.



Figure 2: The Sime Duplex sprinkler installed on a riser, ready for operation. Proper vertical mounting is crucial for even water distribution.

OPERATING INSTRUCTIONS

1. **Water Supply:** Gradually open the water supply valve to allow water to flow to the sprinkler. Avoid sudden high-pressure surges.

2. **Pressure Range:** Ensure your system operates within the recommended pressure range of 22-90 PSI for optimal performance. Pressures outside this range may affect the throw radius and spray pattern.
3. **Full Circle Operation:** The Duplex sprinkler is designed for full-circle rotation, providing uniform coverage over its entire throw radius.
4. **Spray Adjustment:** The sprinkler features a brass screw on the back of the impact arm. This screw can be adjusted to fine-tune the spray pattern and break up the water stream for closer watering or a finer mist. Turning the screw clockwise typically increases the spray break-up, while counter-clockwise reduces it.
5. **Monitoring Performance:** Observe the sprinkler's operation to ensure even water distribution and proper rotation. Adjust water pressure or nozzle selection if coverage is uneven.

MAINTENANCE

Regular maintenance ensures the longevity and efficient operation of your Sime Duplex sprinkler.

- **Nozzle Cleaning:** Periodically inspect the nozzle for blockages from debris (e.g., dirt, sand, mineral deposits). Clean with a small brush or by flushing with water. Avoid using sharp objects that could damage the nozzle orifice.
- **Sprinkler Body Inspection:** Check the cast aluminum body and impact arm for any signs of wear, corrosion, or damage. Ensure all moving parts operate smoothly.
- **Spring Arm Check:** Verify that the spring arm mechanism moves freely and returns to its original position after each impact. A stiff or stuck arm may indicate debris or wear.
- **Winterization:** In freezing climates, disconnect the sprinkler from the water supply and drain all water from the unit and associated piping to prevent freeze damage. Store the sprinkler in a dry, protected area.

TROUBLESHOOTING

- **Sprinkler Not Rotating:**
 - Check for debris obstructing the impact arm or nozzle.
 - Ensure adequate water pressure (minimum 22 PSI).
 - Inspect the spring mechanism for damage or stiffness.
- **Uneven Spray Pattern or Reduced Throw:**
 - Verify the nozzle is clean and free of blockages.
 - Confirm the water pressure is within the optimal range (22-90 PSI).
 - Check for leaks in the system before the sprinkler.
 - Ensure the sprinkler is mounted vertically.
- **Leaks at Connection Point:**
 - Tighten the connection to the riser/stand.
 - Reapply thread sealant or PTFE tape to the 2-inch FNPT connection.

SPECIFICATIONS

Feature	Detail
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Feature	Detail
Model Number	DUPLEX
Base Connection	2-inch FNPT
Flow Rate	42 - 220 GPM (Gallons Per Minute)
Throw Radius	65.6 - 152.6 ft
Operating Pressure	22 - 90 PSI (Pounds per Square Inch)
Trajectory Angle	25°
Operation Type	Full Circle
Drive Mechanism	Spring Arm Impact
Material	Cast Aluminum body, Brass base
Package Dimensions	24.25 x 13.25 x 2.75 inches
Item Weight	6.25 Pounds

Nozzle Performance Chart

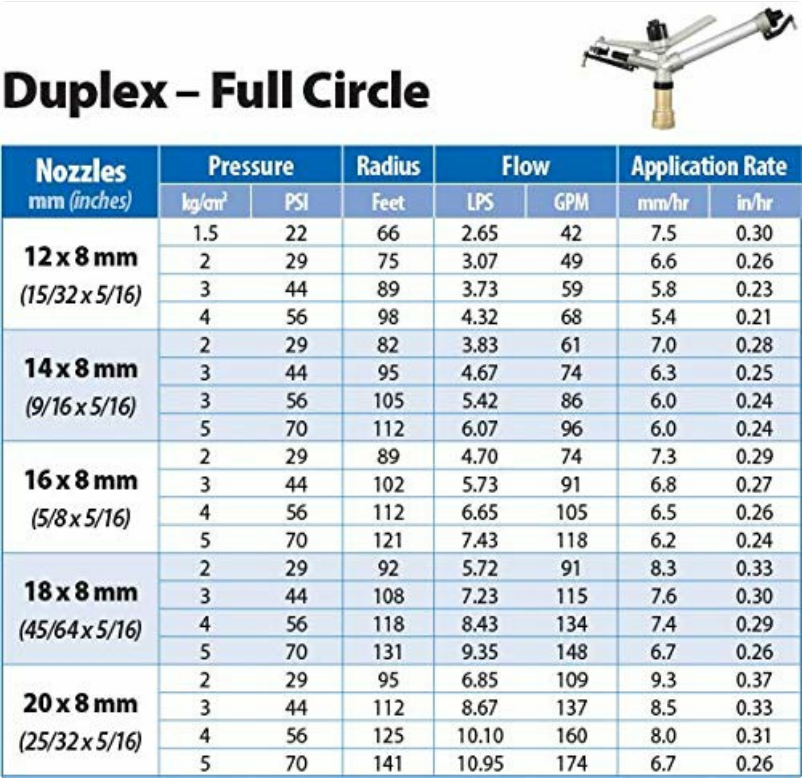


Figure 3: Nozzle performance chart detailing flow rates (GPM), throw radius (Feet), and application rates (In/hr) for various nozzle sizes and operating pressures (PSI). This chart assists in selecting the optimal nozzle for specific irrigation requirements.

Note: Performance values are approximate and may vary based on actual operating conditions and water source characteristics.

WARRANTY INFORMATION

Specific warranty details for the Sime Duplex 2-inch Full Circle Impact Sprinkler are not provided in this

manual. For information regarding product warranty, including coverage duration and terms, please contact the original retailer or the manufacturer, Sime, directly. Retain your proof of purchase for any warranty claims.

SUPPORT

If you require technical assistance, have questions about installation, operation, or maintenance, or need to report a product issue, please contact the seller from whom you purchased this product. You may also visit the official Sime website for additional resources or to find contact information for their customer support department.

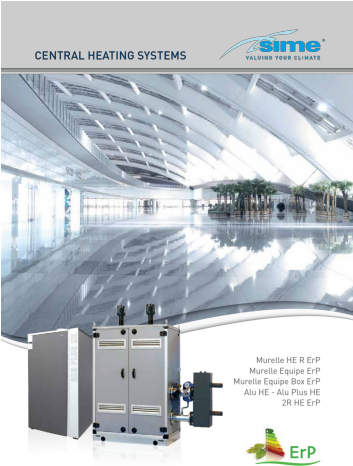
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Related Documents - DUPLEX

	Sime Brava Slim Wall Mounted Boiler User Manual User manual for the Sime Brava Slim wall-mounted boiler by Fonderie SIME S.p.A., providing instructions on commissioning, shutdown, maintenance, safety precautions, and disposal. Covers model Brava Slim.
	Manuale Sime MURELLE.HT: Uso, Installazione e Manutenzione Caldaia a Condensazione Guida completa per la caldaia a condensazione Sime MURELLE.HT, che copre l'uso, l'installazione, la manutenzione, le specifiche tecniche e le procedure di sicurezza.
	Sime MEM POWER SYSTEM: Manuale di Installazione e Manutenzione Guida completa per l'installazione e la manutenzione del sistema Sime MEM POWER SYSTEM, progettato per la gestione efficiente di sistemi ibridi con caldaia e pompa di calore.

	SIME MURELLE.HT T Condensing Wall Mounted Boiler: User, Installation, and Servicing Instructions Comprehensive user, installation, and servicing instructions for the SIME MURELLE.HT T condensing wall-mounted boiler. This guide details operation, safety procedures, technical specifications, and maintenance for efficient heating and domestic hot water systems. Learn about its advanced features and compliance with EU directives.
	Sime Murelle Revolution: Unità Ibrida Condensazione + Pompa di Calore Scopri la Sime Murelle Revolution, un sistema ibrido murale Classe A++ che combina caldaia a condensazione e pompa di calore aria-acqua per riscaldamento e ACS ad alta efficienza.
	SIME MURELLE.HT Condensing Wall Mounted Boiler: User, Installation, and Servicing Manual Comprehensive guide for the SIME MURELLE.HT condensing wall-mounted boiler, covering user instructions, installation procedures, and servicing requirements. Essential for safe, efficient, and reliable operation.

Documents - Sime – DUPLEX



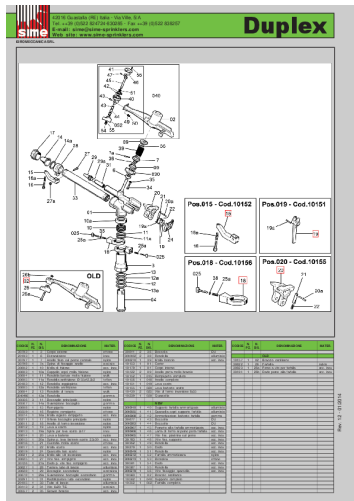
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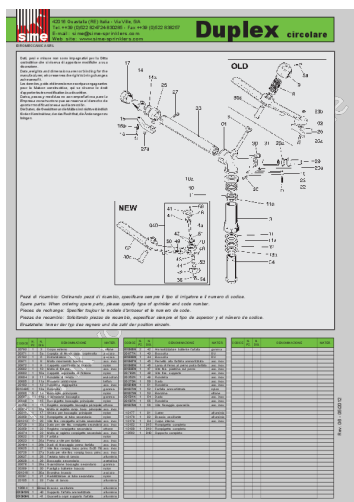
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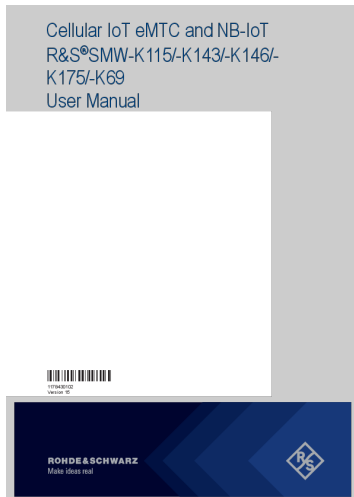
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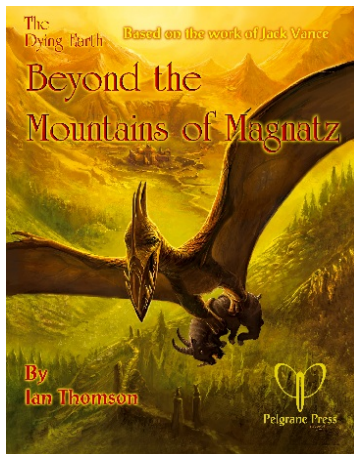
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[R&S SMW-K115/K143/K146/K175/K69 Cellular IoT eMTC/NB-IoT User Manual](#)

This user manual provides comprehensive guidance on configuring and operating the Rohde & Schwarz R&S SMW series signal generators for Cellular IoT eMTC and NB-IoT applications, covering key features, settings, and 3GPP specifications.

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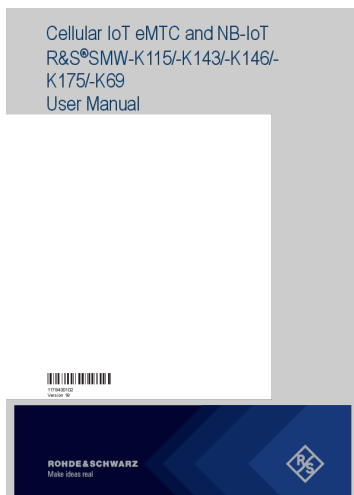


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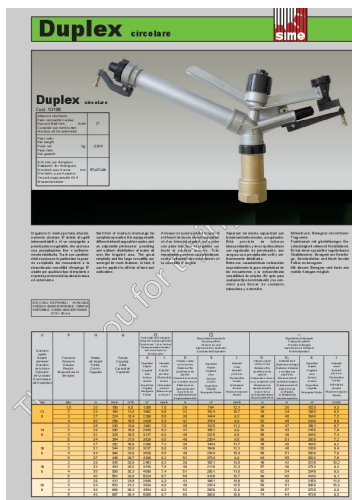


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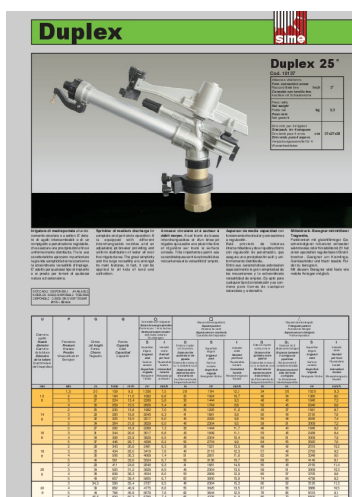
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Duplex circolare Duplex circolare Cod. 10158 Attacco a vite femm. Fem. connection
screw Raccord filet fem. Inch 2 Conexin con tornillo fem. Anschluss mit
Schraubenmutter Peso netto Net weight Poids net Peso neto Net gewicht kg 2,630
Dim. imb. per 4 irrigatori Size/pack. for 4 rainguns ...
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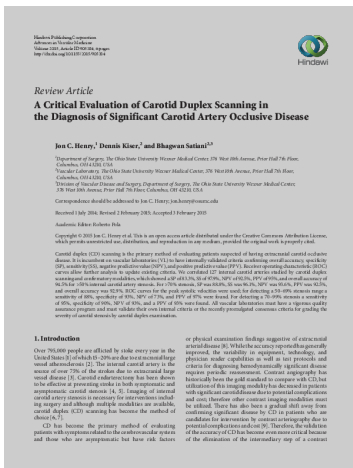


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Duplex Duplex 25 Cod. 10137 Attacco a vite femm. Fem. connection screw Raccord
filet fem. Inch 2 Conexin con tornillo fem. Anschluss mit Schraubenmutter Peso netto
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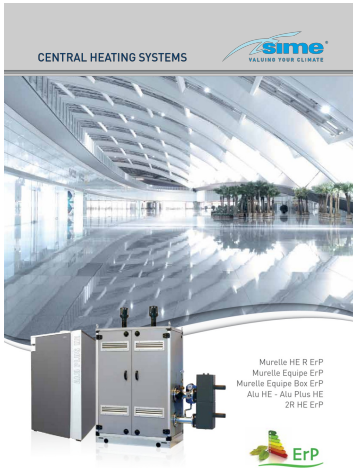


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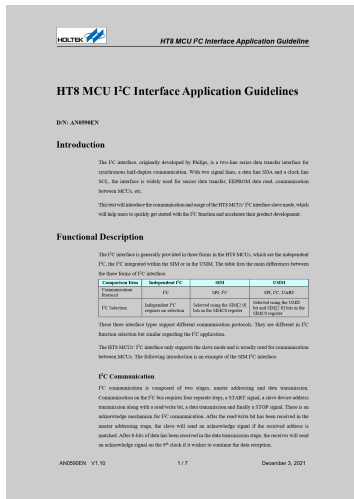


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2 Holtek HT8 MCU I2C Interface Application Guidelines The interface originally developed by Philips is a two line series data transfer for synchronous half duplex communication an0590env110 holtek documents 10179 116745 |||

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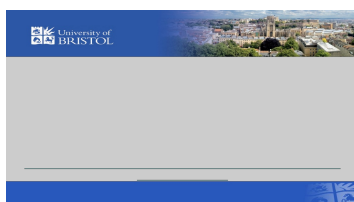


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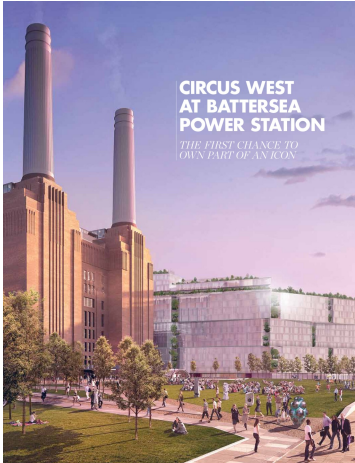
5G Research in Action: Massive MIMO and Full**Duplex** Radio Professor Mark Beach Manager, EPSRC Centre ... ommunication Systems Networks CSN Group 2014 S. Chen, M. Beach, and J. McGeehan, Division-free **duplex** for wireless applications, Electronics Letters, vol. 34, no. 2, pp. 147-148, jan 1998. Our...

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Modelo	Presión (bar)	Caudal (m³/h)	Radio (m)	Longitud (m)	Material	Presión (bar)	Caudal (m³/h)	Radio (m)	Longitud (m)	Material
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2	1.5	2.5	9	10	Plástico	1.5	2.5	9	10	Plástico
3	1.5	2.5	9	10	Plástico	1.5	2.5	9	10	Plástico
4	1.5	2.5	9	10	Plástico	1.5	2.5	9	10	Plástico
5	1.5	2.5	9	10	Plástico	1.5	2.5	9	10	Plástico
6	1.5	2.5	9	10	Plástico	1.5	2.5	9	10	Plástico
7	1.5	2.5	9	10	Plástico	1.5	2.5	9	10	Plástico
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48	1.5	2.5	9	10	Plástico	1.5	2.5	9	10	Plástico
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50	1.5	2.5	9	10	Plástico	1.5	2.5	9	10	Plástico
51	1.5	2.5	9	10	Plástico	1.5	2.5	9	10	Plástico
52	1.5	2.5	9	10	Plástico	1.5	2.5	9	10	Plástico
53	1.5	2.5	9	10	Plástico	1.5	2.5	9	10	Plástico
54	1.5	2.5	9	10	Plástico	1.5	2.5	9	10	Plástico
55	1.5	2.5	9	10	Plástico	1.5	2.5	9	10	Plástico
56	1.5	2.5	9	10	Plástico	1.5	2.5	9	10	Plástico
57	1.5	2.5	9	10	Plástico	1.5	2.5	9	10	Plástico
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60	1.5	2.5	9	10	Plástico	1.5	2.5	9	10	Plástico
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63	1.5	2.5	9	10	Plástico	1.5	2.5	9	10	Plástico
64	1.5	2.5	9	10	Plástico	1.5	2.5	9	10	Plástico
65	1.5	2.5	9	10	Plástico	1.5	2.5	9	10	Plástico
66	1.5	2.5	9	10	Plástico	1.5	2.5	9	10	Plástico
67	1.5	2.5	9	10	Plástico	1.5	2.5	9	10	Plástico
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72	1.5	2.5	9	10	Plástico	1.5	2.5	9	10	Plástico
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76	1.5	2.5	9	10	Plástico	1.5	2.5	9	10	Plástico
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81	1.5	2.5	9	10	Plástico	1.5	2.5	9	10	Plástico
82	1.5	2.5	9	10	Plástico	1.5	2.5	9	10	Plástico
83	1.5	2.5	9	10	Plástico	1.5	2.5	9	10	Plástico
84	1.5	2.5	9	10	Plástico	1.5	2.5	9	10	Plástico
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86	1.5	2.5	9	10	Plástico	1.5	2.5	9	10	Plástico
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88	1.5	2.5	9	10	Plástico	1.5	2.5	9	10	Plástico
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90	1.5	2.5	9	10	Plástico	1.5	2.5	9	10	Plástico
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92	1.5	2.5	9	10	Plástico	1.5	2.5	9	10	Plástico
93	1.5	2.5	9	10	Plástico	1.5	2.5	9	10	Plástico
94	1.5	2.5	9	10	Plástico	1.5	2.5	9	10	Plástico
95	1.5	2.5	9	10	Plástico	1.5	2.5	9	10	Plástico
96	1.5	2.5	9	10	Plástico	1.5	2.5	9	10	Plástico
97	1.5	2.5	9	10	Plástico	1.5	2.5	9	10	Plástico
98	1.5	2.5	9	10	Plástico	1.5	2.5	9	10	Plástico
99	1.5	2.5	9	10	Plástico	1.5	2.5	9	10	Plástico
100	1.5	2.5	9	10	Plástico	1.5	2.5	9	10	Plástico

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 00002250 ASPERSOR 1/2 M PLAST T.W. 1 BOQ 2.8MM / 12mx12m Presin bar 1,5 2
 2,5 Radio m 9 10, ... audal m3/h 2 22 9,5 3 25 11,5 4 28 13,5 00000421 SECT
 00000422 FULL ASPERSOR 2 H SIME **DUPLEX** BOQ 16MM / 40mx40m Presin bar
 Radio m Caudal m3/h 2 27 17 3 31 20,5 4 34 24 ...
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 Circus West at Battersea Power Station The first chance to own part of an Icon 03 a
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 CUPBOARD STORE UTILITY CUPBOARD STORE 0.8 2 BED **DUPLEX** SINGLE
 ASPECT Bessborough / Scott House Levels: 03, 09 bedrooms 02 winter garden
 119.4 sq ft ...
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TABLA COMPARATIVA - ASPERSORES ITALIANOS - SIME				
NOMBRE	ROSCAS	DIAMETRO (metros)	CAUDAL	PRESION EQUIVALENCIA ASPERSOR CHINO
 IBIS Dimes: \$49.52	1"	30	3.5 m³/h (15 gpm)	3 bar (45psi) PY20
 JOLLY Dimes: \$73.64	1 1/4"	45	11 m³/h (50 gpm)	3 bar (45 psi) PY30
 HIDRA Dimes: \$118.75	1 1/2"	50	15 m³/h (65 gpm)	3.5 bar (50psi) PY40
 DUPLEX Dimes: \$211.46	2"	62.5	24 m³/h (100 gpm)	3.5 bar (50psi) PY50

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 TABLA COMPARATIVA - ASPERSORES ITALIANOS - SIME NOMBRE ROSCAS
 DIAMETRO CAUDAL PRESION EQUIVALENCIA metros ASPERSOR CHINO 1 30
 3.5 m3/h 3 bar 15 gpm 45psi PY20 IBIS JOLLY 1 1/4 45 11 m3/h 3 bar 50 gpm 45 psi
 PY30 HIDRA **DUPLEX** 1 1/2 50 15 m3/h 3.5 bar 65 gpm 50psi P...
 lang:en score:9 filesize: 199.25 K page_count: 1 document date: 2019-07-16