

MAIN DRAIN
BONDE DE FOND
SUMIDEROS
SCARICO DI FONDO
BODENABLAUF
RALOS DE FONDO



INSTALLATION AND MAINTENANCE MANUAL
MANUEL D'INSTALLATION ET D'ENTRETIEN
MANUAL DE INSTALACIÓN Y MANTENIMIENTO
MANUALE DI INSTALLAZIONE E MANUTENZIONE
EINBAU-UND BETRIEBSANLEITUNG
MANUAL DE INSTRUÇÕES E MANUTENÇÃO

ENGLISH

MAIN DRAIN MANUAL

1. General information

- These main drains are made of reinforced polyester resin with fibre glass and have an Internal gel coat finish. All the screws are AISI 316 stainless steel, which has a very high resistance to corrosion.
- The design of the main drains allows the grilles to be easily interchanged between plastic or stainless steel grilles.
- The main drains meet the European standard EN-13.451 which demands that the water velocity in the drain is less than or equal to 0.5 m/s and that the holes in the grill of the drain are not larger than 8mm and also that there are no parts sticking out that could cause harm to bathers.
- These main drains have been manufactured under the quality standard ISO 9000.

2. Installation

- When installing the main drain in a concrete pool it is recommended that the grill is removed during installation and that all the upper parts of the drain are protected, especially the screws. In a pool it is recommended that they are situated at least 2m apart.
- It is essential that the suction equipment (pumps) do not suck at a greater flow rate than recommended in the attached sheet.
- The use of a WARNER system is highly recommended which, in the case of a suction, stops the pump immediately, to avoid any harm to bathers.

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- In humid areas, to avoid that any humidity from the subsoil of the pool causes too much pressure, it is recommended to use a hydrostatic valve . When there is too much pressure it opens and removes the water through the main drain.
- To avoid leaks from the pool ensure that the pipework is perfectly joined, and in the case of concrete pools, there must be a depth of 15cm of concrete all around the main drain. In prefabricated pools ensure that the main drain-seal-liner-seal-framework is perfectly aligned and tightened with the corresponding nuts.

3.Assembling

- Main drains are gave previously assembled . Is recomend to make sure that grill's screws are correctly twisted when main drain is correctly installed .

4.Maitenance

- Is recomend to verify that there aren't exrange objects or dirtiness on the grill ; because it will increas speed in the other suction points.

5. SAFETY WARNINGS

- **NEVER USE THE MAIN DRAIN WITHOUT THE GRILL .**
- **MAKE SURE THAT GRILL'S SCREWS ARE CORRECTLY TWISTED.**
- **NEVER EXCEED THE MAXIMUM FLOW RECOMENDED IN THE GRILL WHICH ARE SPECIFIED IN THE INSTALLATION MANUAL**
- **USE METALIC GRILLE FOR POOLS UNDER 1,5M OF DEPTH**

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Main drain made in polyester resin + F.V. Gel-coat finish / Plastic gri // Screws of Stainless steel AISI 316.

Bonde de fond en résine de polyester + F.V. finissage en Gel-Coat / Grille en plastique / Vis en Inox AISI 316

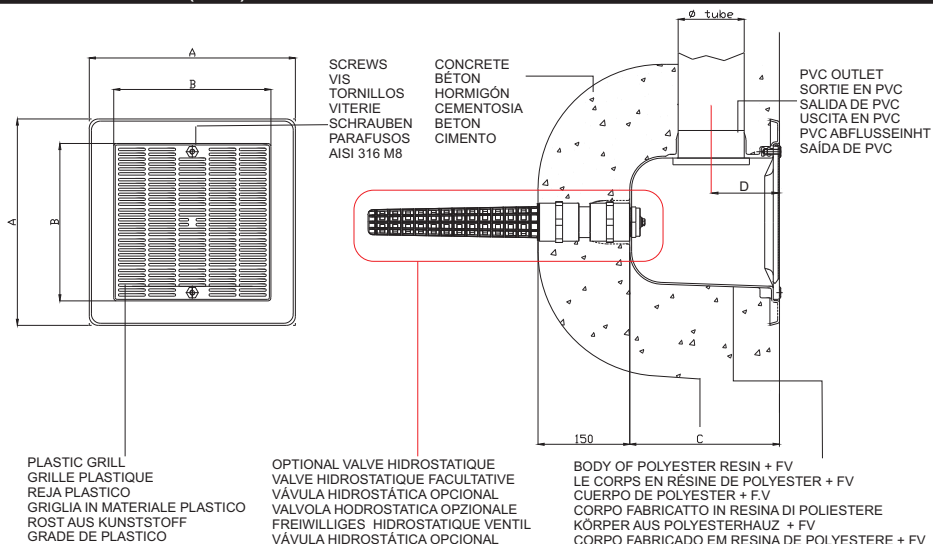
Sumidero fabricado en resina de polyester + F.V. acabado de gel-coat / Rejilla de plástico / Tornillos en acero inoxidable AISI 316.

Scarico di fondo fabbricato in resina di poliestere + FV finitura in gel-coat / Griglia in materiale plastico / Viterie inox AISI 316 .

Bodenablauf aus Polyesterharz + F.V. Gel-Coat Finish / Rost aus Kunststoff / Schrauben aus edelstah AISI 316.

Ralos de fundo modelo fabricada em resina de poliestere + fv acabado em gel-coat / Grade de plastico / Parafusos em aço inoxidável AISI 316

1.DIMENSIONS (mm)

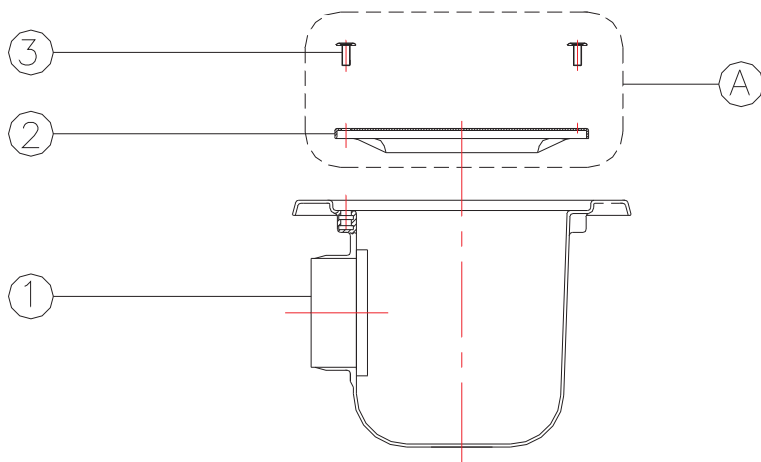


Models	A	B	C	D	Ø Tube	m ³ /h
22359	330	257	245	112	75	16
22360	330	257	245	112	90	22
22361	330	257	245	112	110	33
22362	330	257	245	112	125	43

MAX. FLOW RECOMENDED ON THE GRILL 45 m³/h (0,5 m/s) (Cod. 22359, 22360, 22361, 22362)
MAX. FLOW RECOMENDED ON THE GRILL 27 m³/h (0,3 m/s) (Cod. 22359, 22360, 22361, 22362)

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2.COMPONENTS



Models 22359,22360,22361,22362			
Nº.	Denomination	Code	Units
1	Main drain made in polyester resine + FV/Bonde de fond en résine de polyester + F.V/Sumidero polyester + FV/Scarico di fondo fabbricato in resina di poliestere + FV/Bodenablauf aus Polyesterharz + F.V/Ralos de fundo modelo fabricada em resina de poly		1
2	Plastic grill/Grille en plastic /Rejilla de plastico /Griglia en materiale plastico /Rost aus kunststoff/Grade de plastico 252x252 A.B.S	20074-0404	1
3	Screw/Vis/Tornillo/Viterie/Schrauben/Parafusos inox. AISI 316 M8 x 20 Sseb. SP	032214001	2

Nº.	Kit	Code kit	Components code
A	33801 Rejilla plastico	4402021801	22359-22362

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Main drain made in polyester resin + F.V. Gel-coat finish / Plastic gri l/ Screws and frame of Stainless steel AISI 316.

Bonde de fond en résine de polyester + F.V. finissage en Gel-Coat / Grille en plastique /Vis et cadre en Inox AISI 316

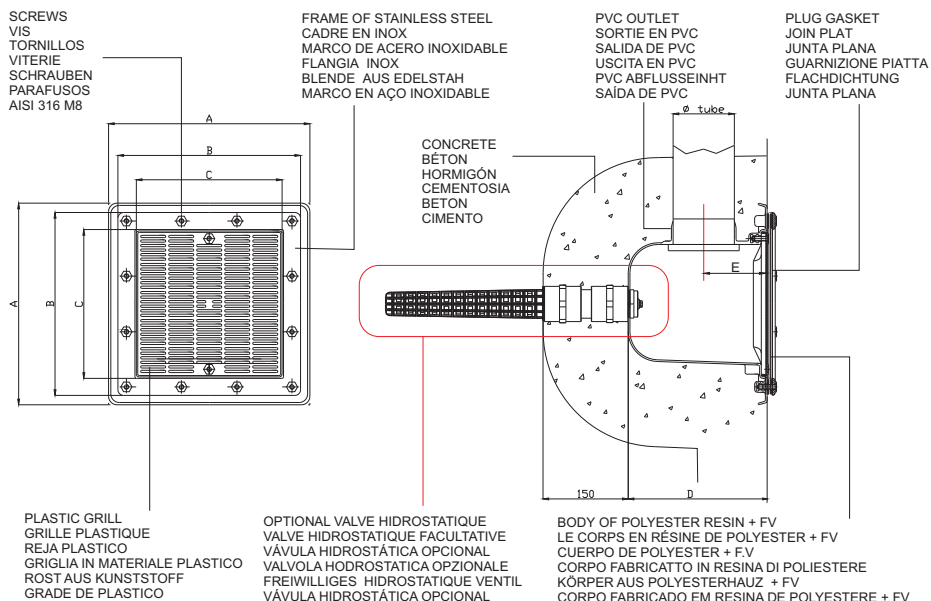
Sumidero fabricado en resina de polyester + F.V. acabado de gel-coat / Rejilla de plástico / Tornillos y marco en acero inoxidable AISI 316.

Scarico di fondo fabbricato in resina di poliester + FV finitura in gel-coat / Griglia in materiale plastico / Viterie e flangia inox AISI 316 .

Bodenablauf aus Polyesterharz + F.V. Gel-Coat Finish / Rost aus Kunststoff / Schrauben und blende aus edelstah AISI 316.

Ralos de fundo modelo fabricada em resina de poliestere + fv acabado em gel-coat / Grade de plastico / Parafusos em marco em aço inoxidável AISI 316

1.DIMENSIONS (mm)

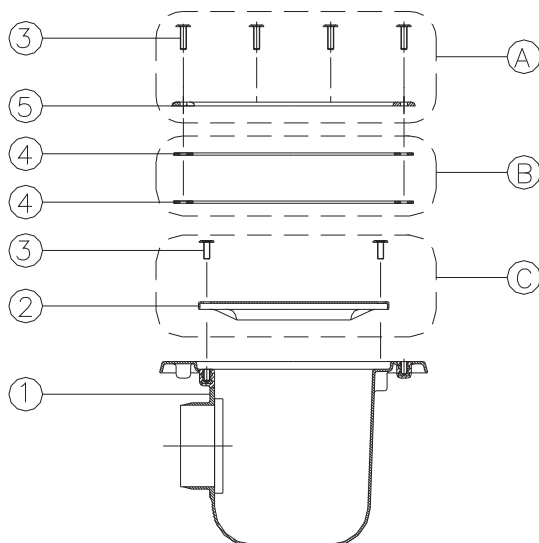


Models	A	B	C	D	E	Ø Tube	m3/h
22416	355	322	257	245	75	112	16
22417	355	322	257	245	90	112	22
22418	355	322	257	245	110	112	33
22419	355	322	257	245	125	112	43

MAX. FLOW RECOMENDED ON THE GRILL 45 m³/h (0,5 m/s) (Cod. 22416, 22417, 22418, 22419)
MAX. FLOW RECOMENDED ON THE GRILL 27 m³/h (0,3 m/s) (Cod. 22416, 22417, 22418, 22419)

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2.COMPONENTS



Models 22416,22417,22418,22419

N°.	Denomination	Code	Units
1	Main drain made in polyester resine + FV/Bonde de fond en résine de polyester + F.V./Sumidero polyester + FV/Scarico di fondo fabbricato in resina di poliestere + FV/Bodenablauf aus Polyesterharz + F.V/Ralos de fundo modelo fabricada em resina de polyester		1
2	Plastic grill/Grille en plastic /Rejilla de plastico /Griglia en materiale plastico /Rost aus kunststoff/Grade de plastico 252x252 A.B.S	20074-0404	1
3	Screw/Vis/Tornillo/Viterie/Schrauben/Parafusos inox. AISI 316 M8 x20 Sseb. S/P	032214001	12
4	Plug gasket/cadre plat/Junta plana/Guarnizione piatta/Rachdichtung/Junta plana 317x317x2 EPDM 65	20074-0403	2
5	Frame/Cadre/ Marco inoxidable/Rangia/ Blende/Marco inox. AISI 316 322x322	20074-0401	1

N°.	Kit	Code kit	Components code
A	31802 Marco inox sumidero	4402021703	22416-22419
B	31803 Junta plana sumidero	4402021702	22416-22419
C	31801 Rejilla plástico	4402021801	22416-22419

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Main drain made in polyester resin + F.V. Gel-coat finish /Grill of stainless stew / Screws of Stainless steel AISI 316.



Bonde de fond en résine de polyester + F.V. finissage en Gel-Coat / Grille en inox /Vis en Inox AISI 316

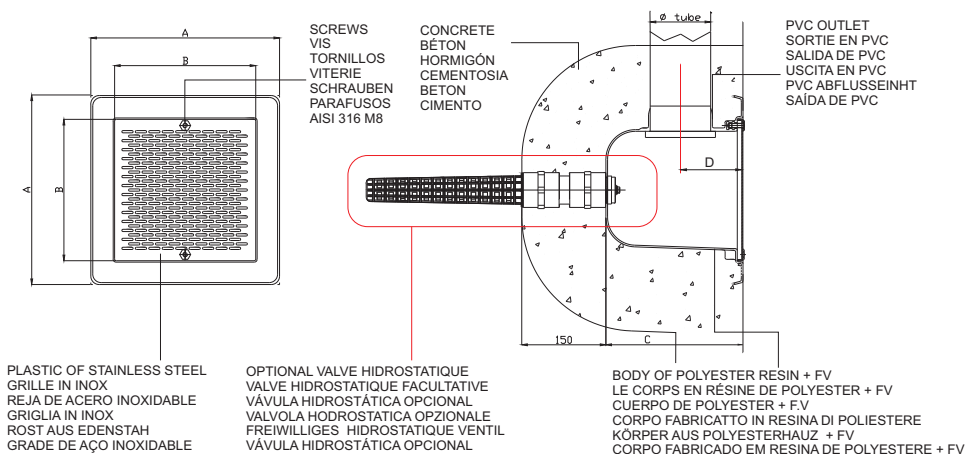
Sumidero fabricado en resina de polyester + F.V. acabado de gel-coat / Rejilla de inoxidable / Tornillos en acero inoxidable AISI 316.

Scarico di fondo fabbricato in resina di poliestere + FV finitura in gel-coat / Griglia ininox / Viterie inox AISI 316 .

Bodenablauf aus Polyesterharz + F.V. Gel-Coat Finish / Rost aus edelstah / Schrauben aus edelstah AISI 316.

Ralos de fundo modelo fabricada em resina de poliestere + fv acabado em gel-coat / Grade em aço inoxidável / Parafusos em aço inoxidável AISI 316

1.DIMENSIONS (mm)



Models	A	B	C	D	Ø Tube	m 3/h
20282	330	257	245	112	75	16
20283	330	257	245	112	90	22
20284	330	257	245	112	110	33
20285	515	482	412	170	110	33
20286	515	482	412	170	125	43
20287	515	482	412	170	140	54
20288	515	482	412	170	160	70
20289	515	482	412	170	200	100

MAX. FLOW RECOMENDED ON THE GRILL 33,5 m³/h (0,5 m/s) (Cod. 20282 , 20283 , 20284)

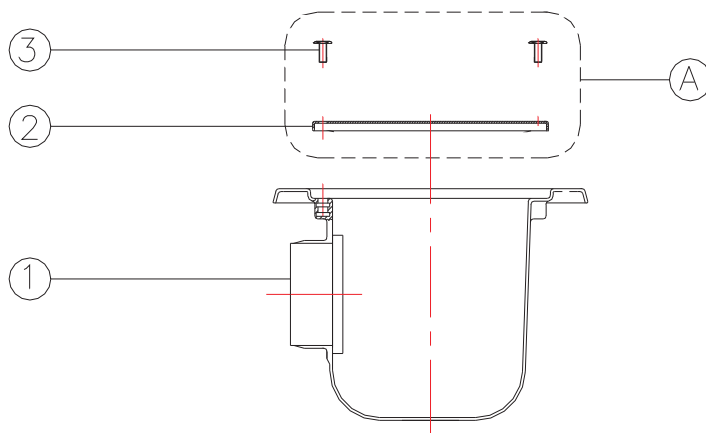
MAX. FLOW RECOMENDED ON THE GRILL 20 m³/h (0,3 m/s) (Cod. 20282 , 20283 , 20284)

MAX. FLOW RECOMENDED ON THE GRILL 103 m³/h (0,5 m/s) (Cod. 20285-20289)

MAX. FLOW RECOMENDED ON THE GRILL 62 m³/h (0,3 m/s) (Cod. 20285-20289)

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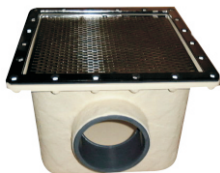
2.COMPONENTS



Models 20282, 20283, 20284, 20285, 20286, 20287, 20288, 20289			
Nº	Denomination	Code	Units
1	Main drain made in polyester resine + FV/Bonde de fond en résine de polyester + FB/Scarico di fondo fabbricato in resine di poliestere + FV/Bodenblauf aus Polyesterhaz + FV/Ralos de fundo modelo fabricado em resina de poliestere + Fv		1
2	Gill of stainless steel/Grille en inox/Rejilla en acero inoxidable/Giglia en inox/Rost aus Edlenstah/Grade de aço inoxidable 252x252 AIS 316	20074-0402	1
	Gill of stainless steel/Grille en inox/Rejilla en acero inoxidable/Giglia en inox/Rost aus Edlenstah/Grade de aço inoxidable 412x412 AIS 316	20076-0402	1
3	Screw/Vs/Tornillo/Mterie/Schrauben/Parafusos inox AIS 316 M8x20 Seeb. SP	032214001	2

Nº	Kit	Code kit	Components code
A	25901 Rejilla inoxidable	4402021601	20282-20284
A	25902 Rejilla inoxidable	4402021602	20285-20289

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Main drain made in polyester resin + F.V. Gel-coat finish / Grill of stainless steel / Screws and frame of Stainless steel AISI 316.

Bonde de fond en résine de polyester + F.V. finissage en Gel-Coat / Grille en inox / Vis et cadre en Inox AISI 316

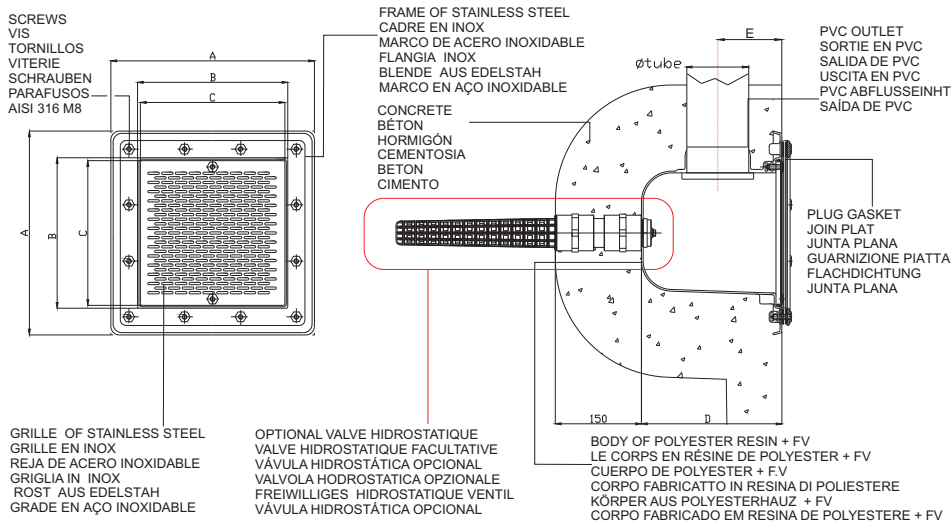
Sumidero fabricado en resina de polyester + F.V. acabado de gel-coat / Rejilla de acero inoxidable / Tornillos y marco en acero inoxidable AISI 316.

Scarico di fondo fabbricato in resina di poliestere + FV finitura in gel-coat / Griglia inox / Viterie e flangia inox AISI 316 .

Bodenablauf aus Polyesterharz + F.V. Gel-Coat Finish / Rost aus edelstah / Schrauben und blende aus edelstah AISI 316.

Ralos de fundo modelo fabricada em resina de poliestere + fv acabado em gel-coat / Grade em aço inoxidável / Parafusos em marco em aço inoxidável AISI 316

1.DIMENSIONS(mm)



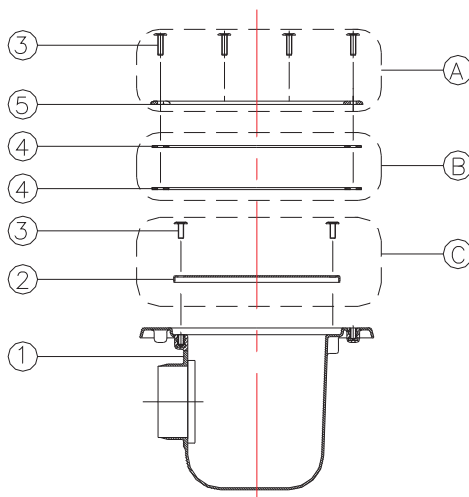
Models	A	B	C	D	E	Tube	m ³ /h
20074	355	322	252	245	112	75	16
20075	355	322	252	245	112	90	22
20290	355	322	252	245	112	110	33
20076	515	482	412	363	170	110	33
20077	515	482	412	363	170	125	43
20078	515	482	412	363	170	140	54
20079	515	482	412	363	170	160	70
20291	515	482	412	363	170	200	100

MAX. FLOW RECOMENDED ON THE GRILL 33,5 m³/h (0,5 m/s) (Cod. 20074, 20075, 20290)
MAX. FLOW RECOMENDED ON THE GRILL 20 m³/h (0,3 m/s) (Cod. 20074, 20075, 20290)

MAX. FLOW RECOMENDED ON THE GRILL 103 m³/h (0,5 m/s) (Cod. 20076-20079 , 20291)
MAX. FLOW RECOMENDED ON THE GRILL 62 m³/h (0,3 m/s) (Cod. 20076-20079 , 20291)

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2.COMPONENTS



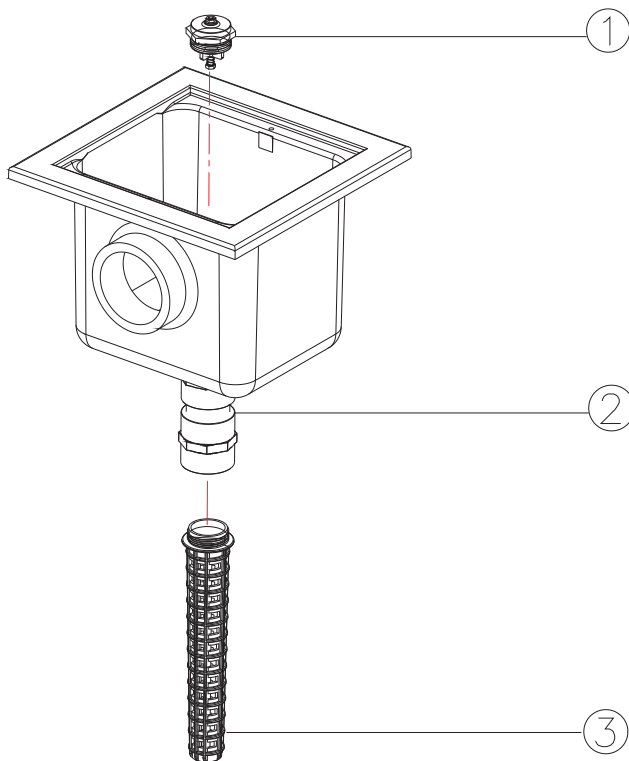
Models : 20074,20075,20076,20077,20078,20079,20290,20291

Nº	Denomination	Code	Units
1	Main drain made in polyester resine+ FV/Bonde de fond en résine de polyester + FV/Scarico di fondo fabbricato in resina di poliestere + FV/ Bodenablauf aus Polyesterharz + F.V/ Ralos de fundo modelo fabricado em resina de polyester		1
2	Grill of stainless steel/Grille en inox/Rejilla en acero inoxidable/Griglia en inox/Rbst aus edenstah/Grade de aço inoxidable 252x252 AIS 316	20074-0402	1
	Grill of stainless steel/Grille en inox/Rejilla en acero inoxidable/Griglia en inox/Rbst aus edenstah/Grade de aço inoxidable 412x412 AIS 316	20076-0402	1
3	Screw/Vs/Tornillo/Viterie/Schrauben/Parafusos inox. AIS 316 M8X 20 Sseb. SP	032214001	12
	Screw/Vs/Tornillo/Viterie/Schrauben/Parafusos inox. AIS 316 M8X 20 Sseb. SP	032214001	22
4	Plug gasket/cadre plat/Junta plana/Guarnizione platta/Rachadichtung/Junta plana 317x317x2 EPDM 65	20074-0403	2
	Plug gasket/cadre plat/Junta plana/Guarnizione platta/Rachadichtung/Junta plana 477x477x2 EPDM 65	20076R0403	2
5	Frame/cadre/Marco inoxidable/Rangia/Blende/Marco inox. AIS 316 482X482	20074-0401	1
	Frame/cadre/Marco inoxidable/Rangia/Blende/Marco inox. AIS 316 482X482	20076-0401	1

Nº.	Kit	Code kit	Components code
A	26003 Marco inoxidable sumidero	4402021703	20074-20075,20090
B	26002 Junta plana sumidero	4402021702	20074-20075,20090
C	26001 Rejilla inoxidable	4402021601	20074-20075,20090
A	26005 Marco inoxidable sumidero	4402021705	20076-20079, 20091
B	26002 Junta plana sumidero	4402021706	20074-20075,20090
C	26004 Rejilla inoxidable	4402021704	20074-20075,20090

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OPTIONAL VALVE HIDROSTATIQUE / VALVE HIDROSTATIQUE FACULTATIVE /
 VÁLVULA HIDROSTÁTICA OPCIONAL / VALVOLA HODROSTATICA OPZIONALE
 / FREIWILLIGES HIDROSTATIQUE VENTIL / VÁLVULA HIDROSTÁTICA



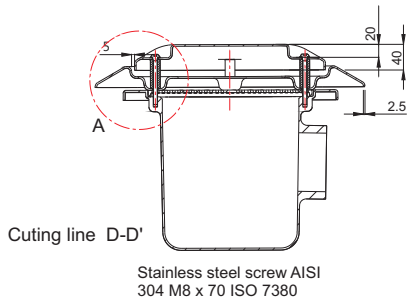
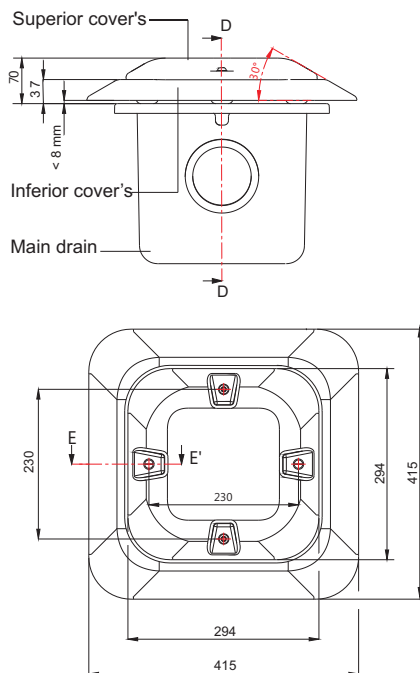
Nº	Denomination	Code	Units
1	Valve hydrostatique / Valve hydrostatique / Válvula hidrostática / Valvola hodrostatica / Hidrostatique ventil / Válvula hidrostática	00277	1
2	Main drain / Bonde de fond / Sumideros/ Scarico de fondo / Bodenablauf / Ralos de fondo		1
3	Drainage tube/Le tube de l'écoulement / Tubo de drenaje / Tubo del prosciugamento / Ableitung-Rohr / Tubo de drenagem	21581	1

SPECIAL MODELS / LES MODÈLES SPÉCIAUX / MODELOS ESPECIALES /

- If main drains are not assembled on installations that can't offer the specified conditions included in the point of the manual (2) is possible to ask about special models with different wall thickness depending of the requirements of this installation
- Si les égouts principaux ne se sont pas assemblés sur installations qui ne peuvent pas offrir les conditions de l'especificated incluses dans le point du manuel (2) est possible de demander environ spécial les modèles avec différents mur épaisseur qui dépend des exigences de cette installation
- En caso de montar los sumideros en instalaciones que no cumplan los requisitos especificados en el apartado de instalación (2) del manual se pueden pedir modelos especiales con variación de grosor de pared en función de las necesidades de dicha instalación .
- Se fognature principali non sono assemblate su installazioni che non possono offrire le condizioni dell'especificated incluse nel punto del manuale (2) è possibile chiedere circa speciale modelli con differenti circondano di mura grossezza che dipende dei bisogni di questa installazione
- Wenn Haupt Gossen nicht auf Installationen, die die especificated-Zustände nicht anbieten können, zusammengesetzt werden, die im Punkt des Handbuchs eingeschlossen werden, (2) ist möglich, ungefähr besondere zu fragen Modelle mit different umgeben Dicke, die von den Anforderungen dieser Installation abhängt, mit einer Mauer

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1. DIMENSIONS AND CHARACTERISTICS COD. 25344



Detail A

Ø 8 Din 125 Inox AISI 316 washer

Nylon support sleeve of Ø 15 x 45 Ø 9mm(int.)

Nylon support sleeve of Ø 15 x 45 with blind hole

Ø 8 Din 125 Inox AISI 304 washer

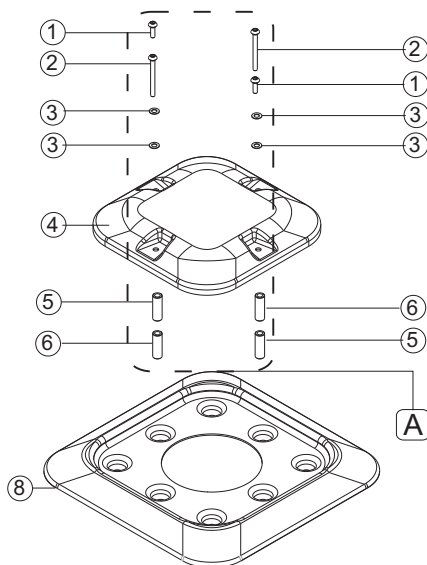
screw M8 x 20 ISO 7380 Stainless steel AISI 316

Corte/Cuting line E-E'

2. SPARE PARTS COD.25344

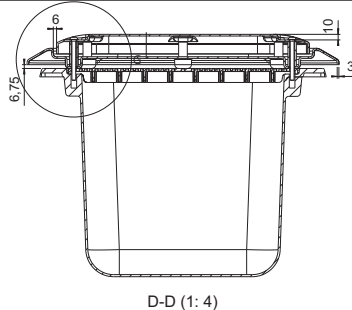
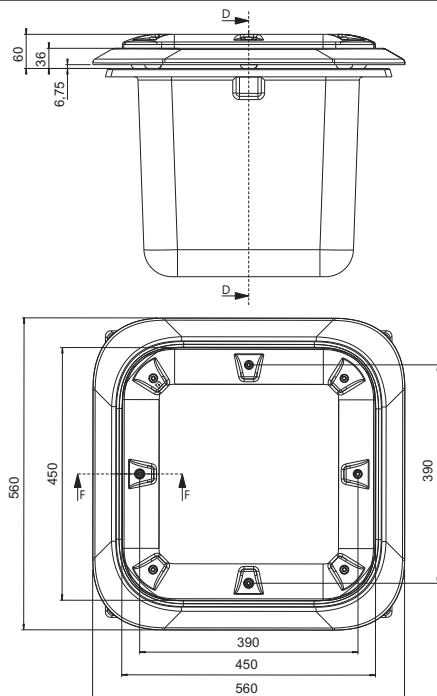
COMPONENTS			
Nº	Denomination	Code	Units
1	Screw/Vis/Tornillo/Viterie/Schrauben/Parafusos Inox ISO 7380 M8 X 80	7211106190	2
2	Screw/Vis/Tornillo/Viterie/Schrauben/Parafusos ISO 7380 ISO 7380 M8 X 20	7022807070	2
3	Washer/Bague/Arandela/Rondella/Ventilschieber/Anilha Ø 6 Din 125	7011908000	4
4	Upper lid / Paupière supérieure /Tapa superior/Coperchip superiore / Oberer deckel / Tampa superior		1
5	Case of poliamida /Le cas en poliamide /Casquillo de poliamida /Caso di poliamida /Fall aus poliamide /Caso de poliamida Ø 15 x 45 Ø int.8	25344-0401	2
6	Case of poliamida /Le cas en poliamide /Casquillo de poliamida /Caso di poliamida /Fall aus poliamide /Caso de poliamida Ø 15 x 45 Ø int.6 x 20	25344-0402	2
7	Inferior lid / Paupière inférieure /Tapa inferior/ Coperchio inferiore / Niedriger deckel / Tampa inferior		1

Nº	Denomination kit	Code kit	Components code
A	Montaje tapa antivortex	25344R-0510	7211106190 , 7022807070 , 7011908000 , 7011906000 , 25344-0401 , 25344-0402

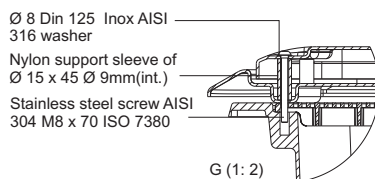


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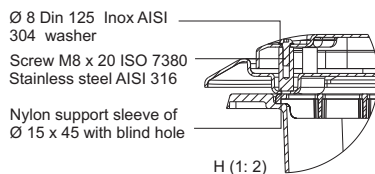
1. DIMENSIONS AND CHARACTERISTICS COD. 28556



D-D (1: 4)



G (1: 2)

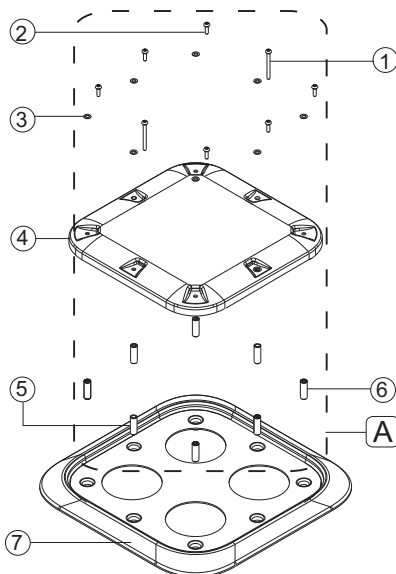


H (1: 2)

2. SPARE PARTS COD.28556

COMPONENTS			
Nº	Denomination	Code	Units
1	Screw/Vis/Tornillo/Viterie/Schrauben/Parafusos Inox ISO 7380 M8 x 80	7211106190	2
2	Screw/Vis/Tornillo/Viterie/Schrauben/Parafusos ISO 7380 M8 x 20	7022807070	2
3	Washer/Bague/Arandela/Rondella/Ventilschieber/Anilha Ø 6 Din 125	7011908000	4
4	Upper lid / Paupière supérieure /Tapa superior/Coperchip superiore / Oberer deckel / Tampa superior		1
5	Case of poliamide /Le cas en poliamide /Casquillo de poliamida /Caso di poliamida /Fall aus poliamide /Caso de poliamida Ø 15 x 45 Ø int9	25344-0401	2
6	Case of poliamide /Le cas en poliamide /Casquillo de poliamida /Caso di poliamida /Fall aus poliamide /Caso de poliamida Ø 15 x 45 Ø int.M8 x 20	25344-0402	2
7	Inferior lid / Paupière inférieure /Tapa inferior /Coperchio inferiore / Niedriger deckel / Tampa inferior		1

Nº	Denomination kit	Code kit	Components code
A	Montaje tapa antivortex	25344R-0510	7211106190 , 7022807070 , 7011908000 , 7011906000 , 25344-0401 , 25344-0402



MAIN DRAIN
BONDE DE FOND
SUMIDERO
SCARICO DI FONDO
BODENABLAUF
RALOS DE FUNDO



PLEASE NOTE: we have also available a return security equipment for the main drains model WARNER of ref. 16244 .



ATTENTION: une équipe de suction de sécurité est aussi disponible pour les bondes de fond modèle WARNER de réf. 16244 .



ATENCIÓN : disponemos de equipo de succión de seguridad para los sumideros modelo WARNER ref. 16244 .



ATTENZIONE : É disponibile lo WARNER (COD 16244) , attrezzatura specifica contro i rischi da intrappolamento da risucchio negli scarichi di fondo .



ANMERKUNG: wir können auch eine Sicherheitsabsaugungsanlage für die Bodenabläufe Ausführung WARNER Ref 16244 i efern .



ATENÇÃO : dispomos de equipamento de sucção de segurança para os ralos de fundo modelo 16244.