



Düker SML Pipe System



Düker SML meets the requirements of

- **ISO 6594** Cast iron drainage pipes and fittings - spigot series
- **EN 877** Cast iron pipes and fittings, their joints and accessories for the evacuation of water from buildings – Requirements, test methods and quality assurance
- **DIN 19522** Cast iron drainage pipes and fittings without socket (SML)

and other international standards.

Dueker SML izpolnjuje zahteve:

ISO 6594 litoželezna drenaža cevi in fittingov –

EN 877 litoželezne cevi in fittingi, njihovi spoji in dodatki za evakuacijo vode iz stavb – zahteve, preskusne metode in zagotavljanja kakovosti

DIN 19522 litoželezna drenaža cevi in fittingov brez mufne (SML)

in drugih mednarodnih standardov.

Planning and Installation

Planning and installation of SML pipelines follow the technical regulations and stipulations of

- **EN 12056 Gravity drainage systems inside buildings**
 - Part 1:** General and performance requirements
 - Part 2:** Sanitary pipework, layout and calculation
 - Part 3:** Roof drainage, layout and calculation
 - Part 4:** Waste water lifting plants – Layout and calculation
 - Part 5:** Installation and testing, instructions for operation, maintenance and use
- **EN 752 Drain and sewer systems outside buildings**
- **EN 1610 Construction and testing of drains and sewers**

and other applicable European, national or local standards and regulations.

NAČRTOVANJE IN MONTAŽA

Načrtovanje in montaža SML cevovodov po tehničnih predpisih in določilih o:

EN 12056 gravitacijski drenažni sistem znotraj zgradb

Del 1: splošne in uspešne zahteve

Del 2: sanitarni cevovodi, postavitve in izračun

Del 3: odvodnjavanje strehe, postavitve in izračun

Del 4: odpadne vode dvižne naprave – postavitve in izračun

Del 5: izgradnja in testiranje kanalizacije

in drugi veljavni Evropski, nacionalni ali lokalni standardi in predpisi.

HARMONIZIRANI standard

CE Conformity



In 2008, the relevant product standard EN 877 for cast iron drainage pipe systems became a so-called harmonised standard. This means that it now contains an annex ZA with details about the product characteristics and testing required for CE marking.

CE certifikat



v letu 2008, upoštevni proizvodni standard EN 877 za cevne sisteme za odvodnjavanje iz litega železa je postal tako imenovani armonizirani standard. To pomeni, da sedaj vsebuje prilogo ZA z podrobnostmi o lastnostih izdelka in testiranju, potrebnih za oznako CE.

The manufacturers are now required to apply the CE marking to their products as per EN 877 in order to confirm the product's suitability for the free trade inside the EU. The CE marking replaces certain national marks such as the German „Ü“ conformity mark.

Proizvajalci morajo sedaj uporabljati oznako CE na svojih izdelkih, kot po EN 877, da se potrdi primernost proizvoda za prosto trgovino znotraj EU. Oznaka CE nadomešča nekatere nacionalne znamke, kot je nemški «U» znak skladnosti.

The application of the CE marking must be based on a Declaration of Performance issued by the manufacturer. This Declaration of Performance (DOP) is based on the European Construction Products Regulation.

Uporaba oznake CE, mora temeljiti na Izjavo o lastnostih, ki jo je izdal proizvajalec. Ta Izjava o lastnostih DOP temelji na Uredbi Evropskih gradbenih proizvodov.

Za zadnjo verzijo Dueker-jeve Izjave o lastnostih, si oglejte spletno stran: www.dueker.de/dop.



Declaration of Performance

No. 996, 0001

1. **Product description**
 996, Challenge pipe system consisting of pipes and fittings made of cast iron

2. **Test number**
 Series no., material width, angle and manufacturing date (see each product)

3. **Tested on**
 Drainage of waste water or rainwater from buildings

4. **Name of the test facility**
 Oliver R&D,
 Oliver-Strasse 6, 42699 Solich,
 Germany

5. **Which approvals, notified representatives**
 Not applicable

6. **System or assessment**
 System 3

7. **Notes**
 The notified body Notifying Agency Northern Ireland (NIA) performed the initial type testing of the system to the European EN 12052-2:2007 and issued a certificate for the declaration.

8. **Product name (optional)**
 Not applicable

9. **Product description**

Product description	Performance	Material and test qualifications
Material to be tested		
Cast iron	Yes	EN 15620:2005
Cast iron joints or gaskets	Yes	EN 12052-2:2007
Equipment to be used		
Water or sewage	Yes	EN 12052-2:2007
Test equipment	Yes	EN 12052-2:2007
Control equipment	Yes	EN 12052-2:2007
Measuring equipment	Yes	EN 12052-2:2007
Test equipment	Yes	EN 12052-2:2007
Equipment to be used		
Water or sewage	Yes	EN 12052-2:2007
Test equipment	Yes	EN 12052-2:2007
Control equipment	Yes	EN 12052-2:2007
Measuring equipment	Yes	EN 12052-2:2007
Test equipment	Yes	EN 12052-2:2007

10. **Conclusion**
 The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 3.

This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.

Signed for and on behalf of the manufacturer by:

Oliver Rötter, Head of Quality Management

and

Oliver Jäger, Head of Design and Development Department

Name and function

Karlsruhe, 07 July 2013

Place and date of issue



Signed

Oliver Rötter, Head of Quality Management

Oliver Jäger, Head of Design and Development Department

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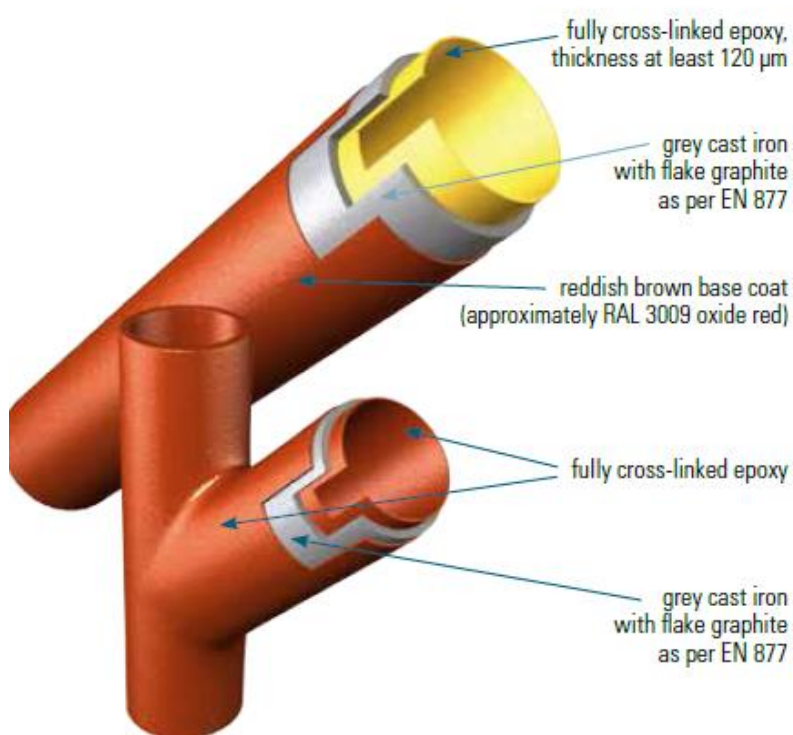
Place and date of issue



COATINGS AND LININGS

The SML drainage pipes are coated with a reddish brown base coat on the outside according to the current standard. On the inside, the pipes are provided with a permanent cross-linked epoxy coating which distinguishes itself by high resistance against chemical and mechanical influences. The features of this high-quality coating go beyond the requirements of EN 877. This particularly protects Düker SML drainage pipe systems against domestic effluents which are becoming increasingly aggressive.

The Düker hot permanent mould centrifugal casting process used in the production of our pipes guarantees extremely smooth inside surfaces – the ideal basis for a uniform, blister-free interior coating with fully cross-linked, elastic epoxy material.



DN 50 up to DN 300 / 400

Application: domestic sewage and rain water drainage inside buildings and on outside walls of buildings.

PREMAZI IN OBLOGE

SML drenažne cevi so na zunanji strani zaščitene z rdečkasto rjavo osnovo premaza v skladu z aktualnim standardom. Na notranji strani, imajo cevi zagotovljen stalen zamreženi epoksi premaz, ki se odlikuje z visoko odpornostjo proti kemičnim in mehanskim vplivom. Značilnosti tega kakovostnega premaza presegajo zahteve standarda EN 877. To še posebej varuje Dueker SML cevne sisteme za odvodnjavanje proti gospodinjskim odpadnim vodam, ki postajajo vse bolj agresivne.

Epoxy smolnati premaz z optimiziranimi lastnostmi, debeline min. 120 mik.

Siva litina z grafitom v obliki lističev po standardu EN 877.

Zunanji premaz: Rdeče rjav osnovni premaz (približno RAL 3009 oksidno rdeč)

Epoxy smolnati premaz z optimiziranimi lastnostmi.

Siva litina z grafitom v obliki lističev po standardu EN 877.

Uporaba: hišna kanalizacija in odvodnjavanje deževnice znotraj stavb in na zunanjih stenah stavb.

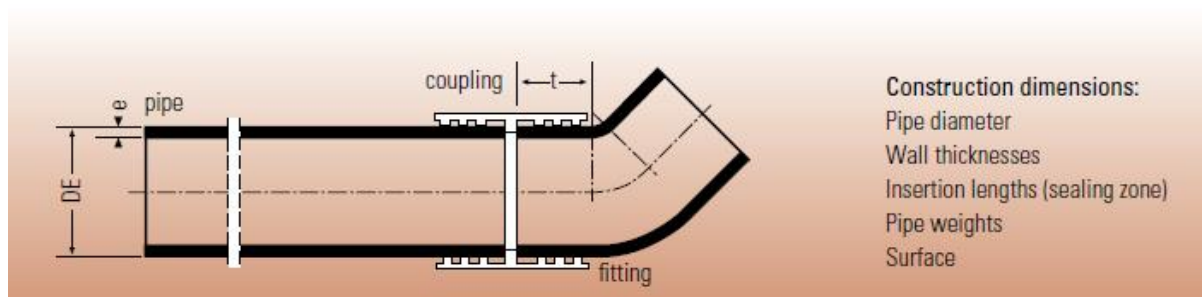
The Material Features

Düker drainage pipe systems are manufactured of grey cast iron GG according to EN 1561 - type at least EN-GJL-150 (formerly GG 15 according to DIN 1691) which means an iron and carbon alloy with high graphite content which is integrated in lamella form and finely distributed within the metallic base compound. This Düker-typical crystalline structure gives the material high strength, wear and temperature resistance, excellent corrosion resistance, and a very high damping capacity. Düker SML drainage pipe systems distinguish themselves by robustness, durability, fire resistance and silent operation – even without special insulation or soundproofing.

LASTNOSTI MATERIALA

Sistemi za odvodnjavanje cevi so izdelani iz sive litine GG po EN 1561 - tip vsaj EN-GJL-150 (prej GG 15 po DIN 1691), kar pomeni, železova in ogljikova zlitina z visoko vsebnostjo grafita, ki je vgrajen v obliki lamela in fino porazdeljen znotraj kovinske spojine. Ta Dueker-tipična kristalna struktura daje materialu visoko trdnost, odpornost na obrabo in temperature, odlična odpornost proti koroziji, in zelo visoko dušenje zmogljivosti. Dueker SML cevne drenažne sisteme odlikuje robustnost, vzdržljivost, požarna odpornost in tiho delovanje – tudi brez posebne izolacije ali zvočne izolacije.

SML CEVI IN FITINGI (EN 877 in DIN 19 522)



Nominalni premer **Zunanji premer** **Debelina stene cevi in fittingov** **Dopustni notranji pritisk** **Teža cevi gole** **Teža cevi polne** **Površina**

SML pipes and SML fittings (EN 877 and DIN 19 522)										
nominal diameter	exterior diameter		wall thickness pipes and fittings		insertion length (sealing zone)	admissible interior pressure		pipe weight empty	pipe weight full	surface ca. m ²
DN	DE	tolerance	nominal	minimum	t	pipes up to	fittings***up to	ca. kg/m	ca.kg/m	per m
40**	48	+2/-1	3,0	2,5	30	10 bar	10 bar	3,5	4,9	0,15
50	58	+2/-1	3,5	3,0	30	10 bar	10 bar	5,3	7,3	0,18
70*	78	+2/-1	3,5	3,0	35	10 bar	10 bar	6,2	10,2	0,26
80 ¹⁾	83	+2/-1	3,5	3,0	35	10 bar	10 bar	6,6	11,0	0,26
100	110	+2/-1	3,5	3,0	40	10 bar	10 bar	8,5	16,8	0,35
125	135	+2/-2	4,0	3,5	45	10 bar	10 bar	11,6	24,3	0,42
150	160	+2/-2	4,0	3,5	50	10 bar	5 bar	14,0	32,2	0,50
200	210	+2,5/-2,5	5,0	4,0	60	10 bar	5 bar	23,8	55,3	0,65
250	274	+2,5/-2,5	5,5	4,5	70	10 bar	3 bar	32,1	86,4	0,85
300	326	+2,5/-2,5	6,0	5,0	80	10 bar	3 bar	45,1	122,5	1,02
400	429	+2/-3	6,3	5,0	80	10 bar	2 bar	64,1	200,3	1,35
500**	532	+2,0/-3,5	7,0	5,2	80	6 bar	2 bar	83,3	294,5	1,67
600**	635	+2,0/-4,0	7,7	5,8	80	4 bar	2 bar	108,5	410,0	1,99

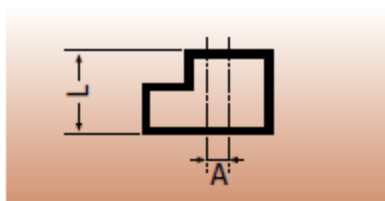
* obsolete model, ** on request (DN 500 and 600 see MLB programme), *** except inspection pipes, siphons, hermetic plugs and connection pieces

All dimensions in mm

¹⁾) The nominal diameter DN 80 with a minimum interior diameter of 75 mm corresponds to DN 80 as per EN 12056-2 as well as to DN 75 as per EN 877 (product standard)

REDUKCIJA

Reducers

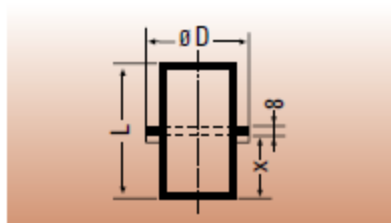


SML reducer DIN 19522				
DN	A	L	kg	item no.
70 x 50*	10	75	0,5	662504
80 x 50	12,5	80	0,7	235159
100 x 50	25	80	0,9	662514
100 x 70*	16	85	0,9	662524
100 x 80	13,5	90	1,0	235161
125 x 50	38,5	85	1,4	662534
125 x 70*	28,5	90	1,5	662544
125 x 80	26	95	1,7	235162
125 x 100	12,5	95	1,5	662554
150 x 50	51	95	2,0	662564
150 x 70*	41	100	2,1	662574
150 x 80	37,5	100	2,0	235417
150 x 100	25	105	2,2	662584
150 x 125	12,5	110	2,2	662594
200 x 100	50	115	4,1	662604
200 x 125	37,5	120	4,1	662614
200 x 150	25	125	4,3	662624
250 x 150	57	140	6,8	662634
250 x 200	32	145	7,0	662644
300 x 150	83	150	10,7	662494
300 x 200	58	160	11,4	662714
300 x 250	26	170	12,4	662724
400 x 300**	51,5	180	15,0	662444

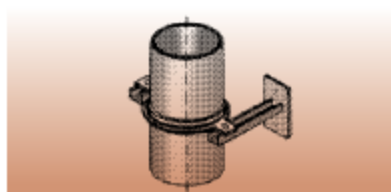
* obsolete model, ** on request

CEV PADNA PODPIRALNA in OBROČ Z GUMO

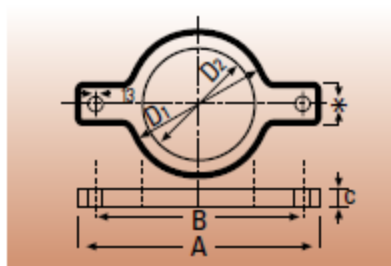
SML Down Pipe Supports



Installation Example with Console (available in the trade)



Bearing Rings



Bearing rings with rubber for down pipe supports

SML down pipe support DIN 19522

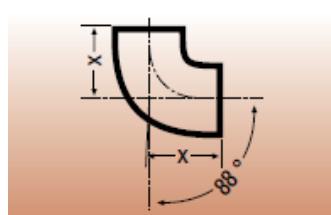
DN	D	X	L	kg	item no.	
					support without bearing ring	support incl. bearing ring
50	87	96	200	1,3	661544	223825
70*	106	96	200	1,6	661554	223830
80	114	96	200	1,8	235164	235343
100	145	96	200	2,3	661564	223834
125	170	96	200	3,3	661574	223839
150	195	96	200	4,0	661584	223841
200	245	96	200	6,0	661594	223843
250	340	146	300	14,6	100242	230053
300	390	146	300	19,2	100244	230054

* obsolete model

DN	D ₂	D ₁	A	B	C	*	kg	item no.
50	61	93	193	148	25	33	0,8	666314
70*	81,5	114	214	166	26	33	1,0	666324
80	86,5	120	214	166	31	32	1,0	235344
100	115	147	250	202	28	33	1,3	666334
125	138	171	275	225,5	28	33	1,5	666344
150	163	199	301	253,5	30	33	2,0	666354
200	215	250	360	310,5	30	36	3,0	666374
250	280	344	442	392	34	40	6,5	227152
300	332	393	495	445	39	40	8,5	227153

* obsolete model

SML Bends 88°

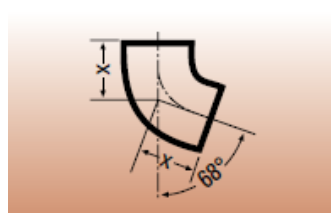


KOLENO 88°, 68°, 45°, 30°, 15°

SML bend DIN 19522

DN	X	kg	item no.
50	75	0,7	661054
70*	90	1,1	661114
80	95	1,4	235150
100	110	2,1	661174
125	125	3,2	661234
150	145	4,9	661294
200	180	8,8	662784
250**	225	13,8	233621
300**	260	25,5	233622

SML Bends 68°



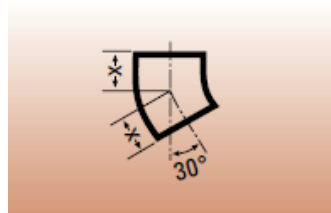
DN	X	kg	item no.
50	65	0,7	661034
70*	75	1,1	661094
80	80	1,2	235149
100	90	1,5	661154
125	105	2,9	661214
150	120	4,9	661274
200	145	7,7	661334

SML Bends 45°



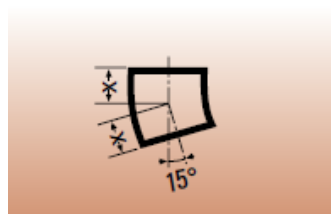
DN	X	kg	item no.
50	50	0,5	661024
70*	60	0,9	661084
80	60	1,0	235148
100	70	1,5	661144
125	80	2,3	661204
150	90	3,5	661264
200	110	6,5	661324
250	130	10,3	661374
300	155	17,3	661394
400**	257	36,0	661284

SML Bends 30°



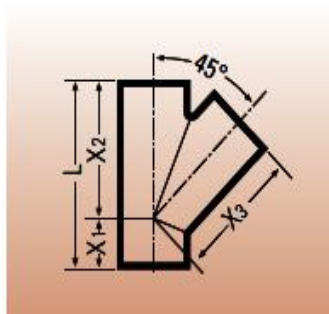
DN	X	kg	item no.
50	45	0,5	661014
70*	50	0,7	661074
80	60	0,8	235147
100	60	1,3	661134
125	70	2,0	661194
150	80	3,0	661254
200	95	5,4	661314
250	110	9,1	661364
300	130	14,7	661384

SML Bends 15°



DN	X	kg	item no.
50	40	0,4	661004
70*	45	0,6	661064
80	50	0,7	235146
100	50	1,0	661124
125	60	1,7	661184
150	65	2,5	661244
200	80	4,6	661304

SML Branches 45°



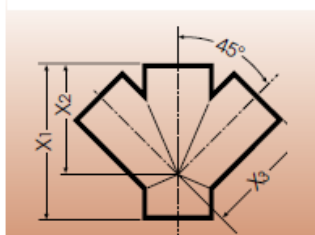
ODCEP 45°

SML single branch 45° DIN 19522

DN	X ₁	X ₂	X ₃	L	kg	item no.
50 x 50	50	135	135	185)	1,4	663004
70 x 50*	40	150	150	190	1,6	663034
80 x 50	50	140	140	190	1,8	235152
70 x 70*	55	160	160	215	2,3	663064
80 x 80	65	160	160	225	2,4	235154
100 x 50	35	165	165	200	2,5	663094
100 x 70*	50	185	185	235	3,3	663124
100 x 80	55	175	175	230	3,3	235156
100 x 100	70	205	205	275	4,2	663154
125 x 50	20	185	185	205	3,4	663184
125 x 70*	40	200	200	240	4,3	663214
125 x 80	40	200	200	240	4,4	235342
125 x 100	60	220	220	280	5,2	663244
125 x 125	80	240	240	320	6,4	663274
150 x 70*	30	215	215	245	5,6	663334
150 x 80	40	215	215	260	5,2	235415
150 x 100	55	240	240	295	6,8	663364
150 x 125	70	255	255	325	8,0	663394
150 x 150	90	265	265	355	9,2	663424
200 x 70*	15	240	240	255	8,1	663484
200 x 80	20	240	240	260	8,5	235416
200 x 100	40	265	265	305	10,0	663514
200 x 125	55	280	280	335	11,9	663544
200 x 150	75	300	300	375	13,3	663574
200 x 200	115	340	340	455	17,2	663604
250 x 100	15	310	310	325	15,4	663634
250 x 125	35	335	335	370	17,7	664504
250 x 150	55	350	350	405	20,2	664514
250 x 200	90	385	385	475	25,1	663644
250 x 250	130	430	430	560	31,5	663654
300 x 100	5	345	345	350	19,0	663664
300 x 125	15	360	360	375	22,2	664524
300 x 150	35	380	380	415	23,5	664534
300 x 200	70	415	440	485	34,0	664444
300 x 250	115	465	465	580	42,1	663674
300 x 300	155	505	505	660	50,1	663684
400 x 300**	105	555	565	660	60,0	663694

DVOJNI ODCEP 45°

SML Double Branches 45°

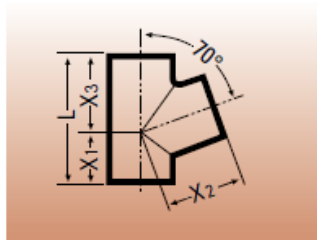


SML double branch 45°

DN	X ₁	X ₂	X ₃	kg	item no.
100 x 100	260	190	190	5,1	100260
125 x 100	280	220	220	6,5	237737
150 x 100	280	225	225	8,2	661444

ODCEP 70° in DVOJNI ODCEP 70°

SML Branches 70°

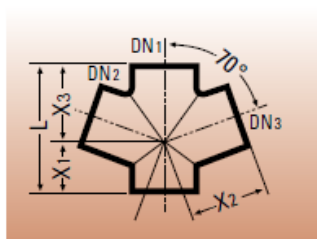


SML single branch 70°

DN	X ₁	X ₂	X ₃	L	kg	item no.
50 x 50	55	80	80	135	0,9	663014
70 x 50*	55	90	90	145	1,2	663044
70 x 70*	70	100	100	170	1,6	663074
100 x 50*	55	110	100	155	1,9	663104
100 x 70*	70	120	110	180	2,3	663134
100 x 100	85	130	130	215	3,0	663164
125 x 50*	55	120	110	165	2,7	663194
125 x 100	85	145	140	225	4,8	663254
150 x 100*	85	155	150	235	5,3	663374
150 x 125*	100	170	165	265	6,2	663404
150 x 150*	115	180	180	295	7,2	663434

* obsolete model

SML Double Branches 70°



SML double branch 70°

DN	X ₁	X ₂	X ₃	L	kg	item no.
100 x 100 x 100	85	130	130	215	3,5	663864
125 x 100 x 100	85	145	140	225	5,0	663954

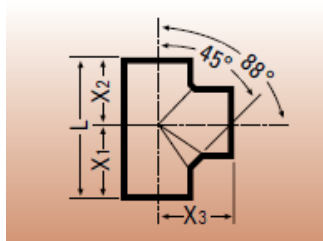
Important note on 70° branches!

As per German DIN 1986, for connection of horizontal pipes up to DN 70 to down pipes, branches of 88° are to be used. This is to prevent negative pressure in the connecting pipes. SML branches 88° with an access angle of 45° also allow to connect larger diameters from DN 100 up to the down pipe. This is space-saving and guarantees connecting pipes without negative pressure. Therefore 70° branches are no longer required and are no longer contained in German DIN 19522. As 70° branches are however still on demand, we sell a reduced range of 70° branches until further notice.

Po nemškem DIN 1986, za priključitev horizontalnih cevi do DN 70 na cev padno podpiralno, odcepi 88° se uporabljajo. To zato, da se prepreči negativen tlak v povezovalnih cevih. SML odcepi 88° s kotom 45° omogočajo tudi priključitev na večje premere od DN 100 navzgor na cev padno podpiralno. Tako se varčuje na prostoru in zagotavlja povezovati cevi, brez negativnega tlaka. Zato 70° odcepi niso več potrebni in se ne zadržujejo več v nemškem DIN 19522. Vseeno se po 70° odcepih še vedno povprašuje, prodajamo znižan razpon 70° odcepe do nadaljnega obvestila.

ODCEP 88° in DVOJNI ODCEP 88°

SML Branches 88°
entry angle 45°

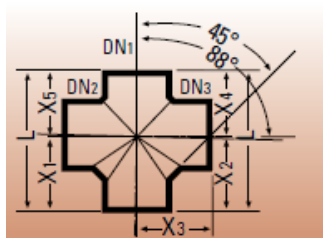


SML single branch 88° DIN 19522

DN	X ₁	X ₂	X ₃	L	kg	item no.
50 x 50	79	66	80	145	0,9	663024
70 x 50*	83	72	90	155	1,4	663054
80 x 50	95	85	90	180	1,5	235153
70 x 70*	97	83	95	180	1,7	663084
80 x 80	95	85	95	180	1,7	235155
100 x 50	94	76	105	170	2,1	663114
100 x 70*	102	88	110	190	2,4	663144
100 x 80	105	85	110	190	2,6	235157
100 x 100	115	105	120	220	2,9	663174
125 x 50	98	82	120	180	3,0	663204
125 x 70*	107	93	125	200	3,4	663234
125 x 80	110	94	125	205	3,1	235158
125 x 100	125	110	130	235	4,0	663264
125 x 125	137	123	135	260	4,6	663294
150 x 50	100	100	140	200	4,4	663324
150 x 100	130	115	145	245	5,5	663384
150 x 125	147	128	150	275	6,2	663414
150 x 150	158	142	155	300	6,9	663444
200 x 200	205	175	210	380	10,1	234752

* obsolete model

SML Double Branches 88°
entry angle 45°



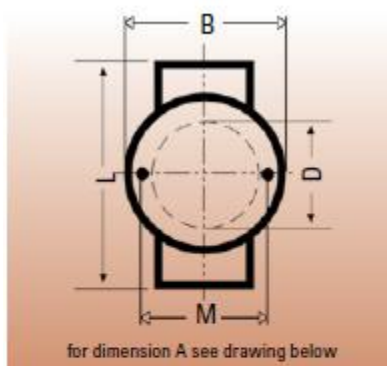
SML double branch 88°

DN ₁	DN ₂	DN ₃	X ₁	X ₂	X ₃	X ₄	X ₅	L	kg	item no.
100 x 50 x 50			100	100	105	80	80	180	2,2	663814
100 x 70 x 70*			102	102	110	88	88	190	2,7	663844
100 x 80 x 80			110	110	120	95	95	205	3,2	236353
100 x 100 x 100			120	120	120	110	110	230	3,2	663874
150 x 100 x 100			130	130	145	115	115	245	7,1	664084

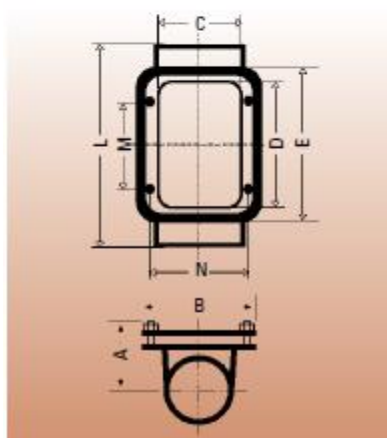
* obsolete model

ČISTILNI KOS

SML Inspection Pipes for down pipes with round opening



SML Inspection Pipes for horizontal and down pipes with rectangular opening



SML inspection pipe round DIN 19522

DN	A	B	D	L	M	kg	item no.
50	59	105	53	190	80	2,3	669580
70*	69	125	73	210	105	2,9	669583
80	74	135	78	220	110	3,1	235166
100	84	159	104	260	130	5,0	669586

* absolute model

with toroidal sealing ring in EPDM as per DIN 4060

SML inspection pipe rectangular DIN 19522

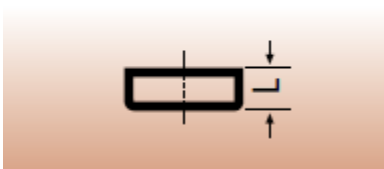
DN	A	B	C	D	E	L	M	N	kg	item no.
100	83	160	100	200	230	340	130	130	7,6	669624
125	101	190	125	225	255	370	150	160	10,3	669627
150	112	215	150	250	280	395	170	180	13,1	669630
200	137	262	200	300	330	465	200	235	22,0	669633
250	170	330	259	350	426	570	230	300	36,5	669612
300	195	380	309	400	476	640	280	350	51,0	669615

DN 100 to DN 200 with toroidal sealing ring in EPDM.

DN 250 and DN 300 with 6 hermetic plug screws and flat sealing in EPDM.

POKROV KONČNI

SML Plugs

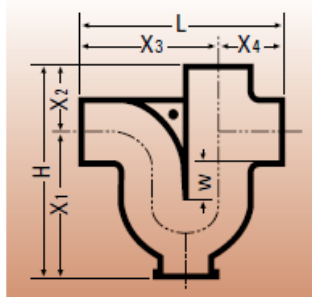


SML plug DIN 19522

DN	L	kg	item no.
50	30	0,2	665504
70*	35	0,4	665514
80	35	0,5	235163
100	40	0,5	665524
125	45	1,1	665534
150	50	1,7	665544
200	60	3,1	665554
250	70	6,0	665564
300	80	9,5	665574

S I F O N HORIZONTALNI/VERTIKALNI

SML Odour Traps (siphons)
for horizontal or vertical connection



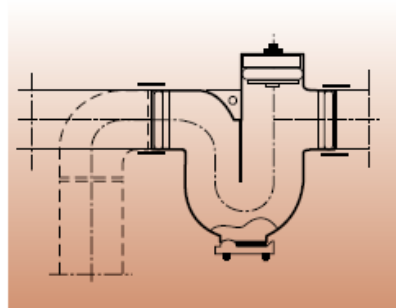
Cleaning trap below.

SML odour trap horizontal/vertical DIN 19522

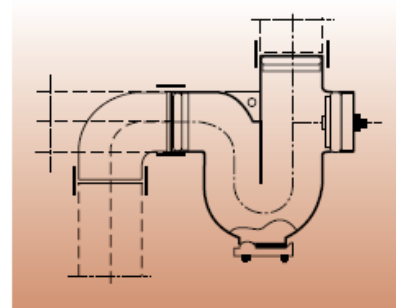
DN	L	H	X ₁	X ₂	X ₃	X ₄	W	kg	item no.
50	190	250	182	68	122	68	60	2,8	669562
70*	265	293	200	93	172	93	60	5,0	669563
80	265	285	190	95	170	95	80	5,8	235165
100	325	392	282	110	215	110	100	8,5	669564
125	390	446	316	130	260	130	100	13,0	669565
150	470	493	348	145	325	145	100	19,5	669566
200	600	600	420	180	400	200	100	36,5	669567

The supplying side of the SML odour traps DN 50 to DN 200 may be connected either to the horizontal or the vertical pipe. Bends can guide the outlet into different directions. The supply opening not used is to be closed with a hermetic plug with press-sealing automatically supplied.

Installation examples

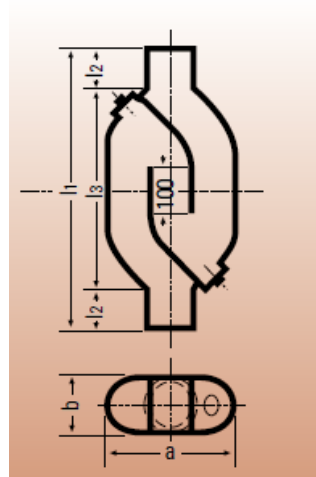


horizontal supply



vertical supply

SML Down Pipe Odour Traps
(rain water siphon)
for vertical connection



SML down pipe odour trap DIN 19522

DN	a	b	l ₂	l ₃	l ₁	kg	item no.
70*	195	90	80	312	472	9,0	669557
80	195	90	70	333	472	9,6	236357
100	276	124	90	408	588	18,5	669558
125	344	144	100	487	687	28,5	669559
150	374	179	110	522	742	38,0	669560

100 mm sealing height, vertical version with upper and lower cleaning hole for installation in rain water down pipes. Use of this odour trap is necessary when run-off areas (e.g. balcony or patio drainage) are connected to the rain water pipes which join mixed water pipes. Installation must be carried out in a frost-protected area - we advise above the cleaning hole before junction of the down pipe into the base pipe.