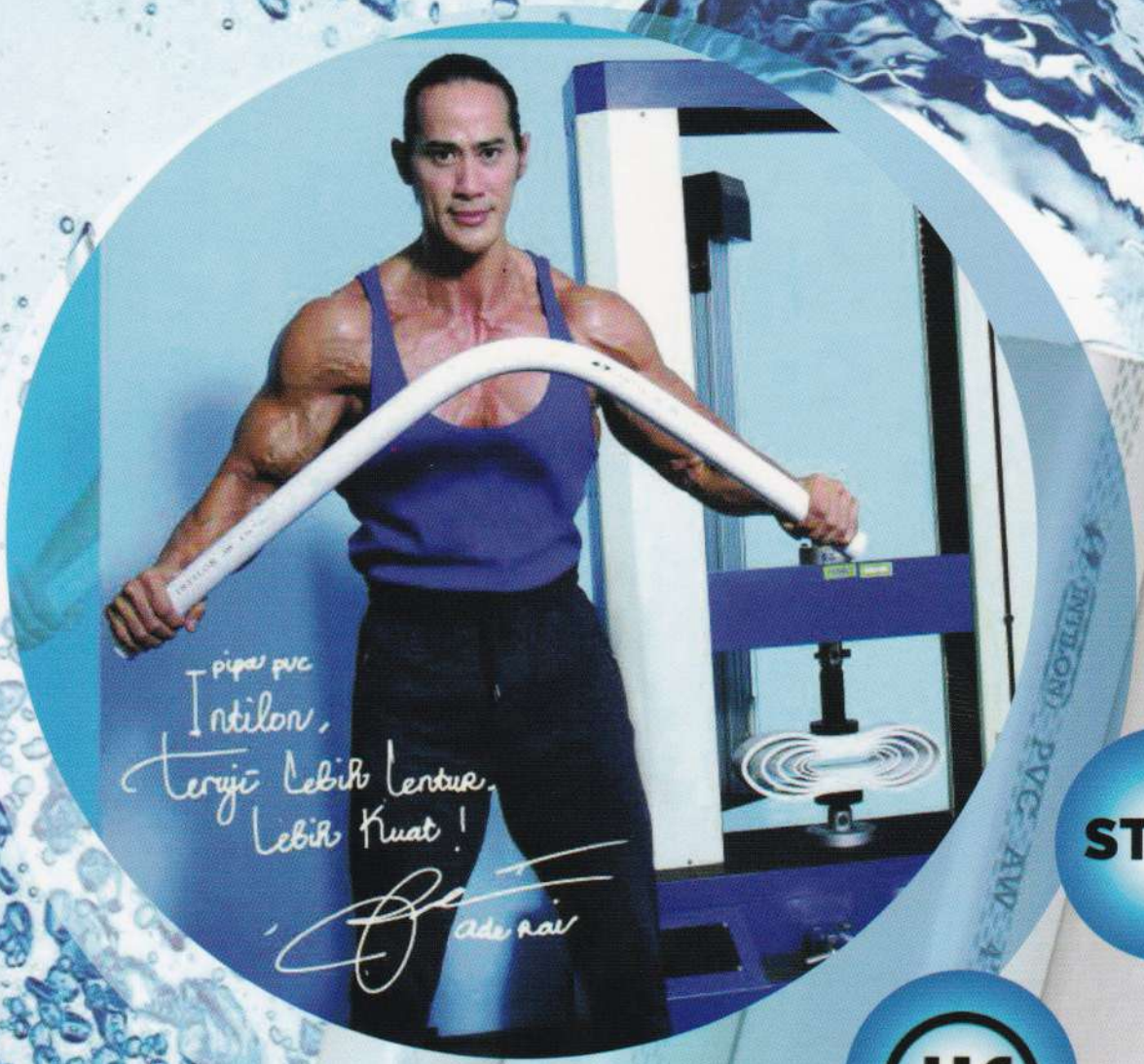
INTILON®
SWALLOW®

INTI *Dalam Perpipaan Indonesia*



STEL L

JIS

SNI

B4T-SC
ISO 9001:2015



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12. Referensi Proyek



INTILON STANDARD JIS K 6741-1975



Ukuran Nominal		Diameter Luar ± 0,3 mm	Tebal Dinding ± 0,3 mm	
			STANDARD VP (10 kg/cm²)	STANDARD VU (5 kg/cm²)
inch	mm	mm	mm	mm
½	15	22	2.7	-
¾	20	26	2.7	-
1	25	32	3.1	-
1¼	30	42	3.1	-
1½	40	48	3.6	1.8
2	50	60	4.1	1.8
2½	65	76	4.1	2.2
3	75	89	5.5	2.7
4	100	114	6.6	3.1
5	125	140	7.0	4.1
6	150	165	8.9	5.1
8	200	216	10.3	6.5
10	250	267	12.7	7.8
12	300	318	15.1	9.2

INTILON STANDARD AW & D





Ukuran Nominal		Diameter Luar ± 0,3 mm	Tebal Dinding ± 0,3 mm	
			STANDARD AW (10 kg/cm²)	STANDARD D (5 kg/cm²)
inch	mm	mm	mm	mm
½	15	22	1.6	-
¾	20	26	1.8	-
1	25	32	2.0	-
1¼	30	42	2.2	1.4
1½	40	48	2.4	1.4
2	50	60	2.4	1.4
2½	65	76	2.8	1.6
3	75	89	3.2	1.8
4	100	114	4.0	2.2
5	125	140	5.4	2.8
6	150	165	6.4	3.0
8	200	216	8.2	4.4
10	250	267	9.0	6.6
12	300	318	11.0	7.6

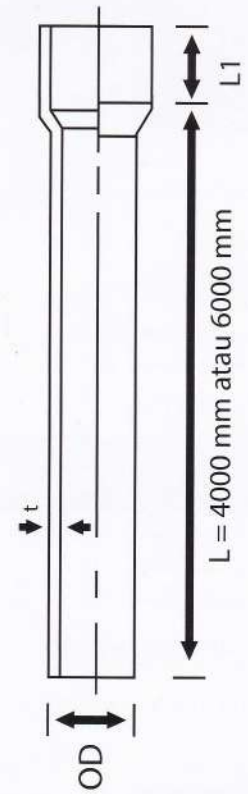
INTILON STANDARD SPLN

SNI 04-1701-1989 & SNI 1702-1989-C



Pipa Listrik Biasa		
Ukuran	OD (mm)	Tebal (mm)
C ⅝	17	0.8
C ¾	22	1.0
C 1	26	1.2
C 1¼	32	1.2

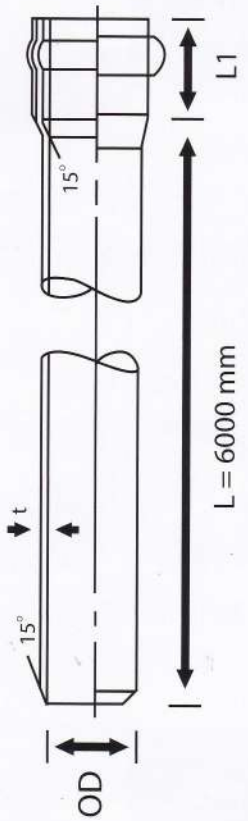
Pipa Conduit High Impact (Listrik)	
OD (mm)	Tebal (mm)
20	1.8
25	1.9
32	2.5



SOLVENT CEMENT JOINT SWALLOW

SNI 06-0084 - 2002

Ukuran Normal		OD	Tebal Dinding (t)						L1
			S-8	S-10	S-12.5	S-16	S-20	S-25	
Inch	*mm*	*mm*	*mm*	*mm*	*mm*	*mm*	*mm*	*mm*	*mm*
½	15	20	1.2	1.0	0.8	0.7	-	-	40
¾	20	25	1.5	1.2	1.0	0.8	-	-	40
1	25	32	1.9	1.6	1.3	1.0	-	-	45
1¼	30	40	2.4	1.9	1.6	1.3	-	-	45
1½	40	50	3.0	2.4	2.0	1.6	-	-	55
2	50	63	3.8	3.0	2.4	2.0	-	-	65
2½	65	75	4.5	3.6	2.9	2.3	-	-	80



RUBBER RING JOINT SWALLOW

SNI 06-0084 - 2002

Ukuran Nominal		OD	Tebal Dinding (t)						L1
			S-8	S-10	S-12.5	S-16	S-20	S-25	
Inch	*mm*	*mm*	*mm*	*mm*	*mm*	*mm*	*mm*	*mm*	*mm*
2	50	63	3.8	3.0	2.4	2.0	-	-	120
2½	65	75	4.5	3.6	2.9	2.3	-	-	130
3	75	90	5.4	4.3	3.5	2.8	-	-	140
4	100	110	6.6	5.3	4.2	3.4	2.7	2.2	150
5	125	140	8.3	6.7	5.4	4.3	-	-	160
6	150	160	9.5	7.7	6.2	4.9	4.0	3.2	180
8	200	200	11.9	9.6	7.7	6.2	4.9	3.9	200
8	200	225	13.4	10.8	8.6	6.9	5.5	4.4	220
10	250	250	14.8	11.9	9.6	7.7	6.2	4.9	230
10	250	280	16.6	13.4	10.7	8.6	6.9	5.5	240
12	300	315	18.7	15.0	12.1	9.7	7.7	6.2	250
14	350	355	21.1	16.9	13.6	10.9	8.7	7.0	300
16	400	400	23.7	19.1	15.3	12.3	9.8	7.8	320
18	450	450	26.7	21.5	17.2	13.8	11.0	8.8	350
20	500	500	29.6	23.9	19.1	15.3	12.3	9.8	380
24	600	630	-	30.0	24.1	19.3	-	-	420
28	700	710	-	-	27.2	21.8	-	-	440
Tekanan Kerja (kg/cm²)		0-25°c	16	12	10	8	6	4	-
		25°-35°c	12	10	8	6	5	3	-

Keterangan:

Panjang Pipa Intilon	: 4 meter
Panjang Pipa Swallow	: Efektif 6 meter
Sistem Sambungan	: SCJ & RRJ
Standard AW	: Untuk Air Bertekanan
Standard D	: Untuk Saluran Pembuangan & Limbah

PVC FITTINGS

Elbow 90°



Size (Inch)	
1 1/4″	12″
1 1/2″	14″
2″	16″
2 1/2″	
3″	
4″	
5″	
6″	
8″	
10″	

Faucet Elbow (With Metal Insert)



Size (Inch)	
1/2″	
3/4″	
1″	
1/2″x3/4″	

Dv. Elbow 90°



Size (Inch)	
1 1/4″	12″
1 1/2″	14″
2″	16″
2 1/2″	
3″	
4″	
5″	
6″	
8″	
10″	

Socket



Size (Inch)	
1/2″	6″
3/4″	8″
1″	10″
1 1/4″	12″
1 1/2″	
2″	
2 1/2″	
3″	
4″	
5″	

Dv. Long Elbow 90°



Size (Inch)	
1 1/2″	
2″	
2 1/2″	
3″	
4″	
5″	
6″	
8″	
10″	
12″	

Ds Socket



Size (Inch)	
1 1/4″	
1 1/2″	
2″	
2 1/2″	
3″	
4″	
5″	
6″	
8″	
10″	

Dv. Elbow 45°



Size (Inch)	
1 1/4″	12″
1 1/2″	14″
2″	16″
2 1/2″	
3″	
4″	
5″	
6″	
8″	
10″	

Clean Out



Size (Inch)	
2″	
2 1/2″	
3″	
4″	
5″	
6″	
8″	
10″	

PVC FITTINGS

Reducer Socket



Size (Inch)		
3/4" x 1/2"	2" x 1"	5" x 3"
1" x 1/2"	2" x 1/4"	5" x 4"
1" x 3/4"	2" x 1 1/2"	6" x 3"
1/4" x 1/2"	2 1/2"x1 1/2"	6" x 4"
1/4" x 3/2"	2 1/2"x2"	6" x 5"
1/4" x 1"	3x1 1/2"	8" x 4"
1 1/2"x1/2"	3" x 2"	8" x 6"
1 1/2"x3/4"	3" x 2 1/2"	10" x 6"
1 1/2"x1"	4" x 1/2"	10" x 8"
1 1/2"x1/4"	4" x 2"	12" x 8"
2" x 1/2"	4" x 2 1/2"	12" x 10"
2" x 3/4"	4" x 3"	

Reducer Tee



Size (Inch)		
3/4" x 1/2"	2" x 1"	4" x 2 1/2"
1" x 1/2"	2" x 1/4"	4" x 3"
1" x 3/4"	2" x 1 1/2"	5" x 3"
1/4" x 1/2"	2 1/2"x1 1/2"	5" x 4"
1/4" x 3/2"	2 1/2"x2"	6" x 2"
1/4" x 1"	3" x 3/4"	6" x 3"
1 1/2"x1/2"	3" x 1"	6" x 4"
1 1/2"x3/4"	3" x 1 1/2"	6" x 5"
1 1/2"x1"	3" x 2"	8" x 4"
1 1/2"x1/4"	3" x 2 1/2"	8" x 6"
2" x 1/2"	4" x 1 1/2"	10" x 6"
2" x 3/4"	4" x 2"	10" x 8"

Y 45°



Size (Inch)		
1 1/2"	2" x 1 1/2"	5" x 4"
2"	2 1/2"x1 1/2"	6" x 3"
2 1/2"	2 1/2" x 2"	6" x 4"
3"	3" x 2"	8" x 4"
4"	4" x 1 1/2"	8" x 6"
5"	4" x 2"	10" x 6"
6"	4"x 2 1/2"	10" x 8"
8"	4" x 3"	
10"	5" x 3"	

Tee Y 90°



Size (Inch)		
1 1/2"	2" x 1 1/2"	5" x 4"
2"	2 1/2"x1 1/2"	6" x 3"
2 1/2"	2 1/2" x 2"	6" x 4"
3"	3" x 2"	8" x 4"
4"	4" x 1 1/2"	8" x 6"
5"	4" x 2"	10" x 6"
6"	4"x 2 1/2"	10" x 8"
8"	4" x 3"	
10"	5" x 3"	

Faucet Socket (With Metal Insert)



Size (Inch)	
1/2"	

Valve Socket (SDL)



Size (Inch)	
1/2"	2 1/2"
3/4"	3"
1"	4"
1 1/4"	
1 1/2"	
2"	

Cap



Size (Inch)	
1/2"	3"
3/4"	4"
1"	5"
1 1/4"	6"
1 1/2"	8"
2"	10"
2 1/2"	12"

Tee



Size (Inch)	
1/2"	3"
3/4"	4"
1"	5"
1 1/4"	6"
1 1/2"	8"
2"	10"
2 1/2"	12"

Metode Penyambungan Pipa Rubber Ring Jointing System (RRJ)

Step 1



Bersihkan kotoran pada permukaan spigot dan soket RRJ

Step 2



Pasang karet RRJ (Tekuk sesuai gambar) dan letakan pada alurnya dengan posisi menghadap ke dalam



Peralatan

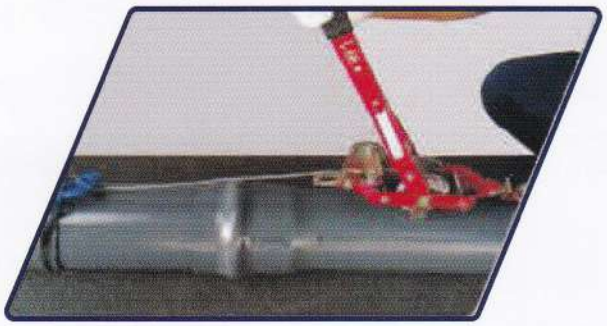
Lem Intilon	Kuas Cat
Spidol	Gergaji
Tali	Hoist
Kain lap	Meteran

Step 3



Oleskan Lubricant sekeliling bagian dalam karet RRJ dan dinding luar pipa yang sudah di beri tanda garis hitam sampai ujung spigot

Step 4



Masukan ujung pipa spigot perlahan dengan di bantu alat Hoist sampai pada tanda garis hitam

LEM PIPA PVC

INTILON®

Merekat Lebih KUAT



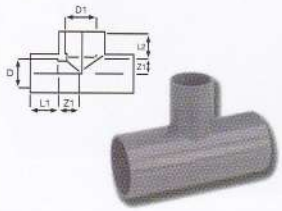
Lem Pipa Intilon
Kaleng 400gr
Tube 40gr

Cara Penggunaan:

1. Bersihkan bagian pipa dan fitting yang akan disambung dengan kertas gosok / lap kering.
2. Poleskan bagian tersebut dengan **INTILON PVC GLUE** sampai merata.
3. Segera disambung dan biarkan beberapa saat sampai kering.
4. Hindarkan dari api.

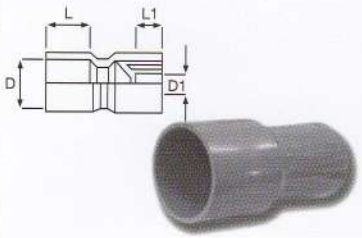
PVC FITTINGS

SC Equal / Reducer Tee Socket



D x D1	Z1	L1	L2
32 x 16	17	22	14
32 x 25	17	22	19
32 x 32	17	22	22
40 x 40	23	26	26
50 x 25	26	31	19
50 x 32	25	31	22
50 x 50	26	31	31

SC Reducer Socket



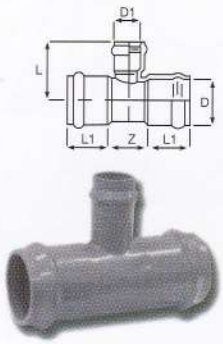
D1-D	L1	L
63 - 20	33	14
63 - 25	38	22
63 - 50	38	31

RR Reducer Socket



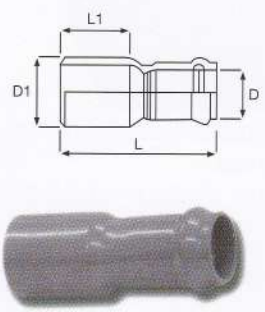
D1 x D2	H	h1	h2
63 x 3/4	117	76	17
63 x 1	117	76	17
90 x 63	210	115	76
110 x 90	255	123	116
160 x 110	305	140	122
200 x 110	324	156	122
200 x 160	325	156	140
250 x 110	488	175	122
250 x 160	375	175	140
250 x 200	375	175	155
315 x 160	431	195	140
315 x 160	430	195	155
315 x 160	435	195	182

RR Seducer Tee



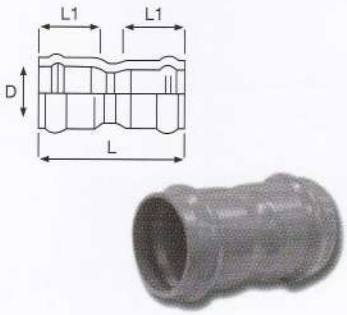
D - D1	Z	L1	L
90 - 63	95	115	170
110 - 63	101	122	180
110 - 90	126	122	190
160 - 63	70	145	200
160 - 90	130	145	220
160 - 110	155	145	234
200 - 110	115	170	245
200 - 160	175	170	265
250 - 160	207	180	270
250 - 200	207	180	290
315 - 250	325	182	290
315 - 200	325	182	290
400 - 315	455	235	400

RR Spigot Reducer



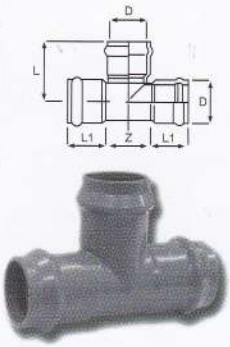
D1-D	L1	L
75 - 63	100	210
90 - 63	100	235
90 - 75	107	243
110 - 63	114	260
110 - 90	114	243
160 - 110	142	306
200 - 110	152	315
250 - 200	163	334
315 - 250	172	340
350 - 315	160	390
400 - 350	100	410

RR Socket



D	L1	L
63	110	215
75	118	250
90	120	240
110	127	255
160	145	305
200	159	380
250	175	430
315	199	530
355	255	570
400	250	600
450	260	650

RR Tee



D	Z	L1	L
63	75	102	140
75	89	105	140
90	105	110	163
110	130	120	185
160	180	140	235
200	215	170	275
250	260	172	290
315	325	179	317
400	455	182	400

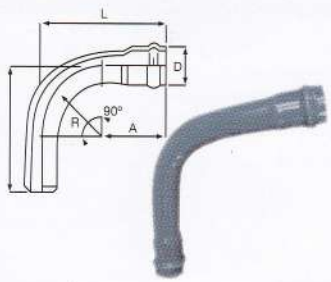
D	L	h	Ø1	Ø2	H	Ø - n
110	413	122	180	225	21	17.5-8
160	475	141.5	240	285	24	22-8
200	560	155	295	340	28	22-8
250	611	166	295	340	30	22-8
315	689	182	295	340	32	22-8

Flange Branch Tee Socket



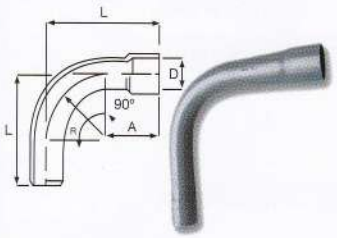
PVC FITTINGS

RR Bend Spigot Socket - 90°



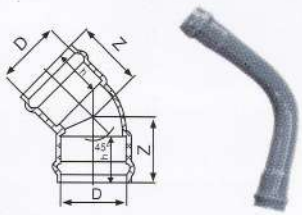
D	A	R	L
63	145	100	350
75	150	255	375
90	160	270	400
110	165	350	450
160	200	150	600
200	225	600	600
250	250	750	1000
315	270	345	1215
355	310	1000	1375
400	355	1200	1571

SC Bend Spigot Socket - 90°



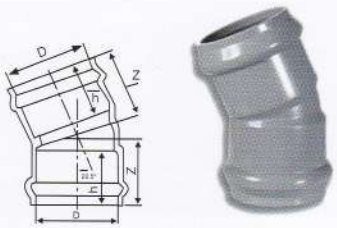
D	A	R	L
63	60	160	252
75	70	225	285
90	82	270	354
110	90	280	420
160	120	450	400
200	145	600	745
250	175	750	825
315	215	945	1160
355	230	1000	1300
400	360	1400	1400

RR Bend 45°



D	Z	h
63	92	76
75	104	84
90	135	114
110	162.5	122
160	182.4	141.5
200	210	155
250	248	180
315	298	198
355	298	205

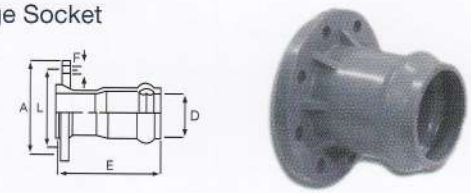
RR Bend 22 1/2°



D	Z	h
110	152	122
160	166	142
200	190	155
250	224	180
315	268	198
355	322	205
400	386	240

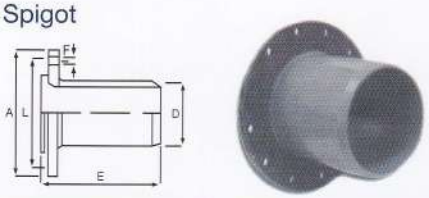
D	L	A	E	F	NO OFF HOLES
63	105	125	155	15	4
75	110	145	165	15	4
90	117	160	200	16	5
110	125	180	220	16	5
160	164	240	200	22	5
200	170	270	325	22	5
250	300	325	350	22	5
315	350	400	445	22	12
355	360	460	405	22	15
400	410	515	365	22	15

Flange Socket

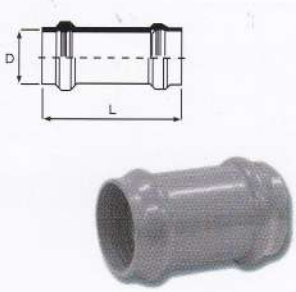


D	L	A	E	F	NO OFF HOLES
63	105	125	155	15	4
75	110	145	165	15	4
90	117	160	200	16	5
110	125	180	220	16	5
160	164	240	200	22	5
200	170	270	325	22	5
250	300	325	350	22	5
315	350	400	445	22	12
355	360	460	405	22	15
400	410	515	365	22	15

Flange Spigot



Repair Socket



D	L
63	230
75	235
90	255
110	275
160	305
200	300
250	430
315	530
355	570
400	600

Metode Penyambungan Pipa Solvent Cement Jointing System (SCJ)

Step 1



Ukur panjang soket dan garis sebagai tanda pada pipa yang akan di sambung

Step 2



Bentuk ujung pipa menjadi spigot 15° yang akan disambung

Step 3



Oleskan permukaan pipa yang sudah di spigot dengan Lem Intilon secara merata

Step 4



Bentuk ujung pipa spigot perlahan dengan di bantu alat Hoist sampai pada tanda garis hitam

INTILON PIPA PP-R





SIZE		PN 10	PN 16	PN 20	PN 25
		COLD WATER	COLD WATER WITH PRESSURE & HOT WATER	HOT WATER WITH PRESSURE	HOT WATER WITH PRESSURE
(mm)	Inch	Thickness (mm)	Thickness (mm)	Thickness (mm)	Thickness (mm)
20	1/2"	1.9	2.8	3.4	4.0
25	3/4"	2.3	3.5	4.2	5.0
32	1"	2.9	4.4	5.4	6.4
40	1-1/4"	3.7	5.5	6.7	8.0
50	1-1/2"	4.6	6.9	8.4	10.0
63	2"	5.8	8.6	10.5	12.6
75	2-1/2"	6.8	10.3	12.5	15.0
90	3"	8.2	12.3	15.0	18.0
110	4"	10.0	15.1	18.3	22.0
125	5"	11.4	17.1	-	-
160	6"	14.6	21.9	-	-

Pipa & Fitting PP-R INTILON di buat dari bahan Polypropylene Random yang sesuai dengan standar DIN 8077 - DIN 8078 sedang untuk fitting sesuai dengan standar DIN 16962

FITTINGS PP - R

COUPLING



Size (mm)	Size (Inch)
20 x 20	1/2" x 1/2"
25 x 25	3/4" x 3/4"
32 x 32	1" x 1"
40 x 40	1 1/4" x 1 1/4"
50 x 50	1 1/2" x 1 1/2"
63 x 63	2" x 2"
75 x 75	2 1/2" x 2 1/2"
90 x 90	3" x 3"
110 x 110	4" x 4"
125 x 125	5" x 5"
160 x 160	6" x 6"

REDUCER



Size (mm)	Size (Inch)
25 x 20	3/4" x 1/2"
32 x 20	1" x 1/2"
32 x 25	1" x 3/4"
40 x 20	1 1/4" x 1/2"
40 x 25	1 1/4" x 3/4"
40 x 32	1 1/4" x 1"
50 x 20	1 1/2" x 1/2"
50 x 25	1 1/2" x 3/4"
50 x 32	1 1/2 x 1"
50 x 40	1 1/2" x 1 1/4"
63 x 20	2" x 1/2"
63 x 25	2" x 3/4"
63 x 32	2" x 1"
63 x 40	2" x 1 1/4"
63 x 50	2" x 1 12"

ELBOW 90°



Size (mm)	Size (Inch)
20 x 20	1/2" x 1/2"
25 x 25	3/4" x 3/4"
32 x 32	1" x 1"
40 x 40	1 1/4" x 1 1/4"
50 x 50	1 1/2" x 1 1/2"
63 x 63	2" x 2"
75 x 75	2 1/2" x 2 1/2"
90 x 90	3" x 3"
110 x 110	4" x 4"
125 x 125	5" x 5"
160 x 160	6" x 6"

ELBOW 45°



Size (mm)	Size (Inch)
20 x 20	1/2" x 1/2"
25 x 25	3/4" x 3/4"
32 x 32	1" x 1"
40 x 40	1 1/4" x 1 1/4"
50 x 50	1 1/2" x 1 1/2"
63 x 63	2" x 2"
75 x 75	2 1/2" x 2 1/2"
90 x 90	3" x 3"
110 x 110	4" x 4"
125 x 125	5" x 5"
160 x 160	6" x 6"

UNION



Size (mm)	Size (Inch)
20	1/2"
25	3/4"
32	1"

TEE



Size (mm)	Size (Inch)
20	1/2"
25	3/4
32	1"
40	1 1/4"
50	1 1/2"
63	2"
75	2 1/2"
90	3"
110	4"
125	5"
160	6"

REDUCING TEE



Size (mm)	Size (Inch)
25 x 20 x 25	3/4" x 1/2" x 3/4"
25 x 20 x 20	3/4" x 1/2" x 1/2"
32 x 20 x 32	1" x 1/2" x 1"
32 x 25 x 32	1" x 3/4" x 1"
40 x 20 x 40	1/4" x 1/2" x 1 1/4"
40 x 25 x 40	1/4" x 3/4" x 1 1/4"
40 x 32 x 40	1/4" x 1" x 1 1/4"
50 x 20 x 50	1/2" x 1/2" x 1 1/2"
50 x 25 x 50	1/2" x 3/4" x 1 1/2"
50 x 32 x 50	1/2" x 1" x1 1/1"
50 x 40 x 50	1 1/2"x1 1/4"x1 1/2"
63 x 20 x 63	2" x 1/2" x 2"
63 x 25 x 63	2" x 3/4 x 2"

CAP



Size (mm)	Size (Inch)
20	1/2"
25	3/4""
32	1"
40	1 1/4"
50	1 1/2"
63	2"
75	2 1/2"
90	3"
110	4"
125	5"
160	6"

PIPE CLAMP



Size (mm)	Size (Inch)
20	1/2"
25	3/4
32	1"
40	1 1/4"
50	1 1/2"

FITTINGS PP - R

FEMALE THREAD ADAPTER I



Size (mm)	Size (Inch)
20 x 20	1/2" x 1/2"
20 x 25	1/2" x 3/4"
25 x 20	3/4" x 1/2"
25 x 25	3/4" x 3/4"
32 x 25	1" x 3/4"
32 x 32	1" x 1"

FEMALE THREAD ADAPTER II



Size (mm)	Size (Inch)
40 x 40	1 1/4" x 1 1/4"
50 x 50	1 1/2" x 1 1/2"
63 x 63	2" x 2"
75 x 75	2 1/1" x 2 1/2"
90 x 90	3" x 3"
110 x 110	4" x 4"

MALE THREAD ADAPTER I



Size (mm)	Size (Inch)
20 x 20	1/2" x 1/2"
20 x 25	1/2" x 3/4"
25 x 20	3/4" x 1/2"
25 x 25	3/4" x 3/4"
32 x 25	1" x 3/4"
32 x 32	1" x 1"

MALE THREAD ADAPTER II



Size (mm)	Size (Inch)
40 x 40	1 1/4" x 1 1/4"
50 x 50	1 1/2" x 1 1/2"
63 x 63	2" x 2"
75 x 75	2 1/2" x 2 1/2"
90 x 90	3" x 3"
110 x 110	4" x 4"

FEMALE THREAD ELBOW 90° I



Size (mm)	Size (Inch)
20 x 20	1/2" x 1/2"
20 x 25	1/2" x 3/4"
25 x 20	3/4" x 1/2"
25 x 25	3/4" x 3/4"
32 x 25	1" x 3/4"
32 x 32	1" x 1"

FEMALE THREAD ELBOW 90° II



Size (mm)	Size (Inch)
20 x 20	1/2" x 1/2"
32 x 32	1" x 1"
40 x 40	1 1/4" x 1 1/4"
50 x 50	1 1/2" x 1 1/2"

MALE THREAD ELBOW 90°



Size (mm)	Size (Inch)
20 x 20	1/2" x 1/2"
20 x 25	1/2" x 3/4"
25 x 20	3/4" x 1/2"
25 x 25	3/4" x 3/4"
32 x 25	1" x 3/4"
32 x 32	1" x 1"

FEMALE THREAD TEE



Size (mm)	Size (Inch)
20 x 20	1/2" x 1/2" x 1/2
20 x 25	1/2" x 3/4" x 1/2
25 x 25	3/4" x 3/4" x 3/4
32 x 25	1" x 3/4" x 1"
32 x 32	1" x 1" x 1"
40 x 40	1 1/4" x 1 1/4

MALE THREAD TEE



Size (mm)	Size (Inch)
20 x 20 x 20	1/2" x 1/2" x 1/2"
20 x 25 x 20	1/2" x 3/4" x 1/2"
25 x 25 x 253	4" x 3/4" x 3/4"
32 x 25 x 32	1" x 3/4 x 1"
32 x 32 x 32	1" x 1" x 1"
40 x 40 x 40	1 1/4" x 1 1/4" x 1 1/4"
50 x 50 x 50	1 1/2 x 1 1/2 x 1 1/2

TRUE UNION BALL VALVE



Size (mm)	Size (Inch)
20	1/2"
25	3/4"
32	1"
40	1 1/4"
50	1 1/2"
63	2"
75	2 1/2"
90	3"
110	4"
125	5"

STOP VALVE



Size (mm)	Size (Inch)
20	1/2"
25	3/4
32	1"
40	1 1/4"
50	1 1/2"
63	2"

STUB FLANGE



Size (mm)	Size (Inch)
40	1 1/4"
50	1 1/2"
63	2"
90	3"
110	4"
125	5"
160	6"

FLANGE



Size (mm)	Size (Inch)
40	1 1/4"
50	1 1/2"
63	2"
90	3"
110	4"
125	5"
160	6"

RUBBER GASKET



Size (mm)	Size (Inch)
40	1 1/4"
50	1 1/2"
63	2"
90	3"
110	4"
125	5"
160	6"

PIPE CUTTER



Size (mm)	Size (Inch)
20 - 32	1/2" - 1"

SOCKET FUSION WELDING MACHINE



Size (mm)	Size (Inch)
20 - 63	1/2" - 2"
75-110	2 1/2" x 4"
160	6"

WELDING SOCKET



Size (mm)	Size (Inch)
40	1 1/4"
50	1 1/2"
63	2"
90	3"
110	4"
125	5"
160	6"

SPESIFIKASI PIPA HDPE PE-100 & PE-80 SWALLOW

BERTEKANAN DENGAN STANDARD SNI 4829.2:2015; ISO 4427-1996



ND (Inch)	OD (mm)	Tebal Pipa (mm)								Panjang Pipa per batang / roll (m)
		S-4 SDR 9	S-5 SDR 11	S-6,3 SDR 13,6	S-8 SDR 17	S-10 SDR 21	S-12,5 SDR 26	S-16 SDR 33	S-20 SDR 41	
PN untuk PE-100		PN - 20	PN - 16	PN - 12,5	PN - 10	PN - 8	PN - 6,3	PN - 5	PN - 4	
PN untuk PE-80		PN - 16	PN - 12,5	PN - 10	PN - 8	PN - 6,3	PN - 5	PN - 4	PN - 3,2	
½	20	2,3	2,0	-	-	-	-	-	-	100
¾	25	2,8	2,3	2,0	-	-	-	-	-	100
1	32	3,6	3,0	2,4	2,0	-	-	-	-	100
1¼	40	4,5	3,7	3,0	2,4	2,0	-	-	-	100
1½	50	5,6	4,6	3,7	3,0	2,4	2,0	-	-	100
2	63	7,1	5,8	4,7	3,8	3,0	2,5	-	-	100
2½	75	8,4	6,8	5,5	4,5	3,6	2,9	-	-	6,12,50,100
3	90	10,1	8,2	6,7	5,4	4,3	3,5	-	-	6,12,50
4	110	12,3	10,0	8,1	6,6	5,3	4,3	-	-	6,12
5	125	14,0	11,4	9,2	7,4	6,0	4,8	3,9	3,1	6,12
5½	140	15,7	12,7	10,3	8,3	6,7	5,4	4,3	3,5	6,12
6	160	17,9	14,6	11,8	9,5	7,7	6,2	4,9	4,0	6,12
7	180	20,1	16,4	13,3	10,7	8,6	6,9	5,5	4,4	6,12
8	200	22,4	18,2	14,7	11,9	9,6	7,7	6,2	4,9	6,12
9	225	25,1	20,5	16,6	13,4	10,8	8,6	6,9	5,5	6,12
10	250	27,5	22,7	18,4	14,8	11,9	9,6	7,7	6,2	6,12
11	280	31,3	25,4	20,6	16,6	13,4	10,7	8,6	6,9	6,12
12	315	35,2	28,6	23,2	18,7	15,0	12,1	9,7	7,7	6,12
14	355	39,6	32,2	26,1	21,1	16,9	13,6	10,8	8,7	6,12
16	400	44,7	36,3	29,4	23,7	19,1	15,3	12,3	9,8	6,12
18	450	50,2	40,9	33,1	26,7	21,5	17,2	13,8	11,0	6,12
20	500	55,8	45,4	36,8	29,6	23,9	19,1	15,3	12,3	6,12
22	560	-	50,8	41,2	33,2	26,7	21,4	17,2	13,7	6,12
24	630	-	57,2	46,3	37,3	30,0	24,1	19,3	15,4	6,12
28	710	-	-	52,2	42,1	33,9	27,2	21,8	17,4	6,12
32	800	-	-	58,8	47,4	38,1	30,6	24,5	19,6	6,12

σ	PE 100	PE 80
	80	63
S 5	16	12,5
S 6,3	12,5	10
S 8	10	8

$$\sigma = \frac{MRS}{C} \qquad \sigma = \frac{P\,(D - e)}{2e}$$

$$e = \frac{MRS}{C} \qquad P = \frac{\sigma}{S}$$

SDR	= Standard Dimension Ratio (2S+1)
e	= Tebal Pipa
PE 100	= MRS 100
PE 80	= MRS 80
σ	= Kekuatan dinding pipa dan daya tahan terhadap perubahan dimensi
MRS	= Minimum Required Strength (Daya tahan minimum)
C	= Faktor keamanan (1,25 untuk pipa air bertekanan)
D	= Diameter luar pipa
P	= Tekanan dalam pipa
S	= Seri pipa

PIPA POLYETHYLENE SUPER SWALLOW

Fibre Optic Cable

Diameter	Tebal Dinding	Panjang Pipa / Roll
mm	*mm*	*meter*
32 x 26	3.0	200 - 400
32 x 27	2.5	200 - 400
32 x 28	2.0	200 - 400
40 x 32	4.0	100 - 300
40 x 33	3.5	100 - 300
40 x 34	3.0	100 - 300
50 x 42	4.0	6 - 12 / btg
90 x 79.2	5.4	6 - 12 / btg
110 x 95.2	7.4	6 - 12 / btg
125 x 110.2	7.4	6 - 12 / btg





Pipa Limbah Swallow

Dengan Berkembangnya teknologi dan kesadaran akan lingkungan yang sehat dan bersih, kami hadir dengan pipa Swallow uPVC yang di rancang untuk menggantikan sistem drainase terbuka yang lebih efisien dan tentunya menjadi pilihan para *Owner*, Konsultan, dan Kontraktor dalam menjawab akan kebutuhan jaringan pembuangan terpadu dalam era urbanisasi yang pesat.

Aplikasi Sistem

Pipa Swallow digunakan untuk sistem air pembuangan jaringan bawah tanah, saluran air hujan, perumahan, komersial, dan industri yang mengacu pada ISO 4435:1991: *Plastics piping systems for non-pressure underground drainage and sewage - Unplasticized Poly Vinyl Chloride* (uPVC)

Karakteristik Bahan

Pipa Swallow terbuat dari uPVC yang bersifat *Thermoplastic*, tidak korosif, tidak larut dalam air, isolator yang baik, kuat dan ringan

Spesifikasi Pipa Air Buangan di dalam dan Luar Bangunan

Diameter Luar Nominal (mm)	Tabel Dinding Nominal (mm)		Panjang Efektif (M)
	Kelas A	Kelas B	
40	1,8	3,2	6
50	1,8	3,2	6
63	1,8	3,2	6
75	1,8	3,2	6
90	1,8	3,2	6
110	2,2	3,2	6
125	2,5	3,2	6
160	3,2	4,0	6
200	3,9	4,9	6
250	4,9	6,2	6
315	6,2	7,7	6
400	7,8	9,8	6

SNI 06-0162 - 1987

Pipa uPVC Untuk Saluran Air Buangan di Dalam dan Luar Bangunan

SNI 06-0178 - 1987

Sambungan Pipa uPVC Untuk Saluran Air Buangan di Dalam dan Luar Bangunan



1. Bandara Soekarno Hatta - Terminal 3

Referensi Proyek



2. Ciputra World



3. Gold Coast Apartment



4. Greenbay Pluit Mall& Apartment

5. Kuningan City

6. Kalibata City
   Residence & Apartment

7. The Darmawangsa

8. The Green Pramuka City

9. Sedayu City

10. Summarecon Housing
    (Bandung, Bekasi, Karawang,
    Kelapa Gading)

11. Puri Mansion

12. Podomoro Golf View

13. Apartment Urbano

14. Permata Hijau Suites Apartment

15. Podomoro City Deli Medan

Put Here

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SWALLOW®

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