

Katalog Produk

# **POWER**

**PIPE & FITTING**

**PIPA KUAT  
TANPA TIMBAL**



**POWER**  
PIPE & FITTING

# DAFTAR ISI

|                |    |
|----------------|----|
| Pendahuluan    | 1  |
| Pipa Power Max | 2  |
| Pipa Power     | 4  |
| Fitting Power  | 6  |
| Talang Power   | 18 |
| Lem PVC        | 20 |
| Hidroponik     | 21 |
| Sertifikasi    | 22 |



# PENDAHULUAN

PT Avia Avian Industri Pipa adalah produsen pipa dan fitting uPVC (Unplasticized Poly Vinyl Chloride) yang telah berdiri sejak tahun 2013 di Gresik Jawa Timur dengan merek dagang POWER.

Dari awal pabrik berdiri, kami sangat memperhatikan masalah kesehatan dan lingkungan. Maka dari itu pabrik POWER memproduksi pipa dan fitting tanpa menggunakan Lead Stabilizer (bebas timbal) yang tersertifikasi.

Pada tahun 2018 Pabrik Power berekspansi ke Cirebon untuk memenuhi permintaan pelanggan.

Kami sangat konsisten dalam menjaga kualitas produk dan terbukti di tahun 2019 sudah tersertifikasi ISO 9001:2015 serta SNI 06-0084-2002. Di tahun 2021, POWER sudah tersertifikasi TKDN dalam rangka mendukung kebijaksanaan pemerintah mengenai penggunaan komponen dalam negeri.

Produk Pipa Power sudah tersebar melalui 50 ribu toko di seluruh wilayah Indonesia.

## KEUNGGULAN

- Bersifat termoplastik
- Isolator yang baik
- Kuat dan tidak mudah pecah
- Memiliki beraneka ragam fitting
- Sangat ringan
- Tahan lama
- Tanpa timbal
- Tahan terhadap kontaminasi bahan kimia
- Untuk saluran air bersih dan pembuangan

| Data Teknis               | Nilai              | Satuan            |
|---------------------------|--------------------|-------------------|
| Berat Jenis               | 1,40               | g/cm <sup>3</sup> |
| Koefisien Ekspansi Linier | $8 \times 10^{-2}$ | mm/m.°C           |
| Konduktifitas Termal      | 0,15               | W/m.°C            |
| Modulus Elastisitas       | 3.000              | N/mm <sup>2</sup> |
| Ketahanan Permukaan       | $>10^{12}$         | Ohm               |

## STANDAR KUALITAS

POWER diproduksi di pabrik dengan sertifikasi ISO 9001:2015 dan sudah mendapat sertifikasi bebas timbal.

## APAKAH ITU TIMBAL?

Timbal adalah logam berat yang berasal dari berbagai sumber, seperti penggunaan bensin bertimbal, pertambangan, peleburan, pemurnian, produksi baterai aki, produksi keramik, limbah dari pabrik elektronik, produksi selubung kabel listrik, dan amunisi senjata.

Menurut sumber *World Health Organization* (WHO), air minum yang mengandung timbal melebihi 0,1 mg/L dapat membahayakan organ tubuh manusia. Pengaruh negatif dari timbal menyebabkan gangguan sistem kesehatan tubuh, termasuk gangguan saraf, gangguan darah, gangguan pencernaan, gangguan ginjal serta gangguan fungsi jantung dan pembuluh darah. Timbal juga berbahaya bagi ibu hamil beserta janinnya. Paparan timbal yang berlebihan pada anak kecil dapat mengakibatkan masalah serius yang bahkan tidak bisa disembuhkan.

## REKOMENDASI

Langkah yang paling efektif terhadap pencemaran timbal dengan melakukan pencegahan, seperti:

- Menggunakan pipa tanpa timbal untuk sistem air bersih.
- Meminimalisasi penggunaan timbal di rumah, sekolah, dan mainan anak-anak.

## PIPA uPVC

untuk aplikasi air bersih bertekanan & air pembuangan

Spesifikasi produk pipa uPVC POWER MAX:

1. Tipe AW : diaplikasikan untuk air bertekanan tinggi sampai tekanan kerja 10 bar.
2. Tipe D : diaplikasikan untuk air bertekanan sampai tekanan kerja 5 bar.
3. Tipe C : diaplikasikan untuk pipa kabel listrik.

## MODEL PIPA

### 1. Pipa MOF

Penyambungan antar pipa menggunakan lem PVC (*Solvent Cement/SC*).



### 2. Pipa Non MOF

Penyambungan antar pipa menggunakan fitting dan lem PVC (*Solvent Cement/SC*).



| Diameter Luar/OD |     | Tebal/T (mm) |     |     | Panjang/L (m) | Sistem Penyambungan | Model Pipa |
|------------------|-----|--------------|-----|-----|---------------|---------------------|------------|
| inch             | mm  | AW           | D   | C   |               |                     |            |
| 5/8              | 17  | -            | -   | 0.8 | 4             | SC                  | Non MOF    |
| 1/2              | 22  | 1.5          | -   | 0.8 | 4             | SC                  | MOF        |
| 3/4              | 26  | 1.8          | -   | 0.8 | 4             | SC                  | MOF        |
| 1                | 32  | 2.0          | -   | 0.8 | 4             | SC                  | MOF        |
| 1¼               | 42  | 2.3          | 1.3 | 0.8 | 4             | SC                  | MOF        |
| 1½               | 48  | 2.3          | 1.3 | 1.0 | 4             | SC                  | MOF        |
| 2                | 60  | 2.3          | 1.3 | 1.1 | 4             | SC                  | MOF        |
| 2½               | 76  | 2.6          | 1.4 | 1.1 | 4             | SC                  | MOF        |
| 3                | 89  | 3.1          | 1.6 | 1.1 | 4             | SC                  | MOF        |
| 4                | 114 | 4.1          | 2.0 | 1.2 | 4             | SC                  | MOF        |
| 5                | 140 | 5.4          | 2.6 | -   | 4             | SC                  | MOF        |
| 6                | 165 | 6.4          | 3.0 | -   | 4             | SC                  | MOF        |
| 8                | 216 | 8.3          | 4.2 | -   | 4             | SC                  | MOF        |
| 10               | 267 | 10.3         | 5.2 | -   | 4             | SC                  | MOF        |
| 12               | 318 | 12.2         | 6.2 | -   | 4             | SC                  | MOF        |

## PIPA HIGH IMPACT CONDUIT

untuk aplikasi pipa kabel listrik

POWER MAX Conduit merupakan produk pipa premium sebagai bentuk komitmen kami dalam memenuhi kebutuhan pelanggan. POWER MAX Conduit ini sangat baik dan aman digunakan pada instalasi kabel listrik rumah tangga, gedung perkantoran maupun proyek komersial, karena sifatnya yang tahan api dan kuat dalam melindungi instalasi kabel listrik.

Pipa POWER MAX Conduit menjamin kualitas dan konsistensi ketahanan yang telah melalui serangkaian uji coba.

### KEUNGGULAN

- Aman untuk instalasi listrik
- Bersifat isolator
- Fleksibel dan ringan
- Menggunakan MOF
- Tidak korosif
- Tahan lama dan tidak mudah pecah
- Tahan terhadap api
- Tahan terhadap bahan kimia
- Tahan terhadap benturan

### MODEL PIPA CONDUIT

Pipa MOF

Penyambungan antar pipa menggunakan lem PVC (*Solvent Cement/SC*).



| Diameter Luar/OD | Tebal/T (mm) | Panjang/L (m) | Sistem Penyambungan | Model Pipa |
|------------------|--------------|---------------|---------------------|------------|
| mm               |              |               |                     |            |
| 20               | 1.3          | 2.9           | SC                  | MOF        |

**PIPA uPVC**

untuk aplikasi air bersih bertekanan & air pembuangan

Spesifikasi produk pipa uPVC POWER:

1. Tipe AW : diaplikasikan untuk air bertekanan tinggi sampai tekanan kerja 10 bar.
2. Tipe D : diaplikasikan untuk air bertekanan sampai tekanan kerja 5 bar.
3. Tipe C : diaplikasikan untuk pipa kabel listrik.

**MODEL PIPA**

1. Pipa MOF

Penyambungan antar pipa menggunakan lem PVC (*Solvent Cement/SC*).



2. Pipa Non MOF

Penyambungan antar pipa menggunakan fitting dan lem PVC (*Solvent Cement/SC*).



| Diameter Luar/OD |     | Tebal/T (mm) |      |     | Panjang/L (m) | Sistem Penyambungan | Model Pipa |
|------------------|-----|--------------|------|-----|---------------|---------------------|------------|
| inch             | mm  | AW           | D    | C   |               |                     |            |
| 5/8              | 17  | -            | -    | 0.8 | 4             | SC                  | Non MOF    |
| 1/2              | 22  | 2.4          | -    | 1.1 | 4             | SC                  | MOF        |
| 3/4              | 26  | 2.5          | -    | 1.1 | 4             | SC                  | MOF        |
| 1                | 32  | 2.6          | -    | 1.4 | 4             | SC                  | MOF        |
| 1¼               | 42  | 2.7          | 1.65 | 1.4 | 4             | SC                  | MOF        |
| 1½               | 48  | 3.1          | 1.65 | 1.4 | 4             | SC                  | MOF        |
| 2                | 60  | 3.7          | 1.7  | 1.4 | 4             | SC                  | MOF        |
| 2½               | 76  | 3.7          | 2.0  | 1.4 | 4             | SC                  | MOF        |
| 3                | 89  | 4.5          | 2.5  | 1.4 | 4             | SC                  | MOF        |
| 4                | 114 | 5.2          | 2.7  | 1.4 | 4             | SC                  | MOF        |
| 5                | 140 | 6.7          | 3.6  | -   | 4             | SC                  | MOF        |
| 6                | 165 | 7.5          | 3.7  | -   | 4             | SC                  | MOF        |
| 8                | 216 | 9.0          | 5.0  | -   | 4             | SC                  | MOF        |
| 10               | 267 | 10.0         | 7.0  | -   | 4             | SC                  | MOF        |
| 12               | 318 | 12.0         | 8.0  | -   | 4             | SC                  | MOF        |

## PIPA uPVC SNI

untuk aplikasi air bersih bertekanan

Spesifikasi produk pipa uPVC POWER:

1. Tipe S10 : diaplikasikan untuk air bertekanan tinggi sampai tekanan kerja 10-12,5 bar.
2. Tipe S12,5 : diaplikasikan untuk air bertekanan sampai tekanan kerja 8-10 bar.

### MODEL PIPA SNI

#### 1. Pipa MOF

Penyambungan antar pipa menggunakan lem PVC (*Solvent Cement/SC*).



#### 2. Pipa RR

Penyambungan antar pipa menggunakan *Rubber Ring/RR*.



| Diameter Luar/OD |     | Tekanan Nominal (bar) |       | Tebal/T (mm) |       | Panjang Efektif/L | Model Pipa |
|------------------|-----|-----------------------|-------|--------------|-------|-------------------|------------|
| inch             | mm  | S10                   | S12,5 | S10          | S12,5 | m                 |            |
| 1                | 32  | 10                    | -     | 1.6          | -     | 6                 | MOF        |
| 1¼               | 40  | 10                    | 8     | 1.9          | 1.6   | 6                 | MOF        |
| 1½               | 50  | 10                    | 8     | 2.4          | 2.0   | 6                 | MOF        |
| 2                | 63  | 12.5                  | 10    | 3.0          | 2.4   | 6                 | RR & MOF   |
| 2½               | 75  | 12.5                  | 10    | 3.6          | 2.9   | 6                 | RR & MOF   |
| 3                | 90  | 12.5                  | 10    | 4.3          | 3.5   | 6                 | RR & MOF   |
| 4                | 110 | 12.5                  | 10    | 5.3          | 4.2   | 6                 | RR & MOF   |
| 6                | 160 | 12.5                  | 10    | 7.7          | 6.2   | 6                 | RR & MOF   |
| 8                | 200 | 12.5                  | 10    | 9.6          | 7.7   | 6                 | RR & MOF   |
| 10               | 250 | 12.5                  | 10    | 11.9         | 9.9   | 6                 | RR & MOF   |
| 12               | 315 | 12.5                  | 10    | 15.0         | 12.1  | 6                 | RR & MOF   |

# FITTING PRESISI TANPA TIMBAL

## FITTING PIPA uPVC (AW)



ELBOW



FAUCET SOCKET



TEE



VALVE SOCKET



45° ELBOW



CAP



UNION THREAD



UNION SOCKET



DOUBLE NIPPLE



SOCKET



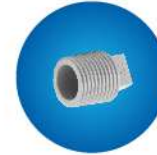
FAUCET ELBOW



LARGE RADIUS TEE



FLANGE



PLUG



REDUCING SOCKET



FAUCET TEE

## FITTING PIPA uPVC (D)



ELBOW



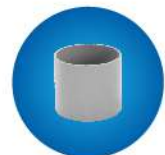
45° ELBOW



Y-BRANCH



INCREASER



SOCKET



TEE



LARGE RADIUS TEE



P-TRAP



LARGE RADIUS  
DOUBLE TEE



LARGE RADIUS  
ELBOW



CLEAN OUT CAP



CLEAN OUT



CAP

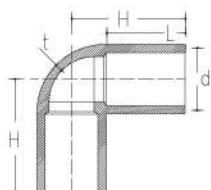


BACK VALVE

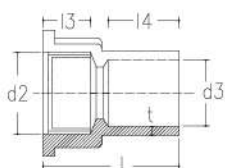


**FITTING PIPA uPVC (AW)**

untuk aplikasi air bersih bertekanan

**Elbow (AW)**


| Ukuran Produk | d      | L   | H   | t (min) |
|---------------|--------|-----|-----|---------|
| 1/2"          | Ø22.4  | 30  | 43  | 3.4     |
| 3/4"          | Ø26.5  | 35  | 50  | 3.4     |
| 1"            | Ø32.5  | 40  | 58  | 3.8     |
| 1¼"           | Ø42.6  | 44  | 70  | 4.3     |
| 1½"           | Ø48.7  | 55  | 82  | 4.3     |
| 2"            | Ø60.8  | 63  | 96  | 4.7     |
| 2½"           | Ø76.6  | 61  | 110 | 5.2     |
| 3"            | Ø89.6  | 64  | 120 | 6.1     |
| 4"            | Ø114.7 | 84  | 153 | 7.8     |
| 5"            | Ø140.9 | 104 | 187 | 7.9     |
| 6"            | Ø166.0 | 132 | 230 | 10.1    |

**Faucet Socket (AW)**


| Ukuran Produk | d2      | d3    | I3   | I4   | L     | t (min) |
|---------------|---------|-------|------|------|-------|---------|
| 1/2"          | PT 1/2" | Ø22.4 | 17   | 30   | 52    | 3.3     |
| 1/2" x 3/4"   | PT 1/2" | Ø26.5 | 17   | 35   | 60    | 3.3     |
| 1/2" x 1"     | PT 1/2" | Ø32.5 | 12   | 51   | 63    | 3.7     |
| 3/4"          | PT 3/4" | Ø26.5 | 19   | 35   | 59    | 3.3     |
| 3/4" x 1"     | PT 3/4" | Ø32.5 | 12   | 51   | 63    | 3.7     |
| 1" x 1/2"     | PT 1"   | Ø22.4 | 21   | 30   | 61.6  | 4.6     |
| 1" x 3/4"     | PT 1"   | Ø26.5 | 21   | 35   | 66.8  | 3.3     |
| 1"            | PT 1"   | Ø32.5 | 21   | 40   | 68    | 3.7     |
| 1¼"           | PT 1¼"  | Ø42.6 | 27   | 44   | 80    | 4.2     |
| 1½"           | PT 1½"  | Ø48.7 | 27   | 55   | 91    | 4.2     |
| 2"            | PT 2"   | Ø60.8 | 32.5 | 63   | 107   | 4.6     |
| 2½"           | PT 2½"  | Ø76.6 | 38.5 | 61.5 | 109.5 | 5.2     |

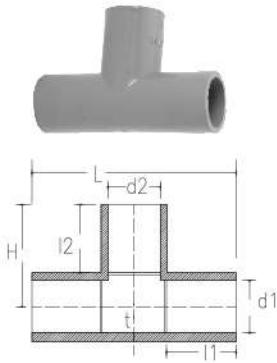
**with Metal Insert**

| Ukuran Produk | d2      | d3    | I3 | I4 | L  | t(min) |
|---------------|---------|-------|----|----|----|--------|
| 1/2"          | PT 1/2" | Ø22.4 | 17 | 30 | 52 | 3.3    |
| 1/2" x 3/4"   | PT 1/2" | Ø22.4 | 17 | 35 | 60 | 3.3    |
| 3/4"          | PT 3/4" | Ø26.5 | 19 | 35 | 59 | 3.3    |

**FITTING PIPA uPVC (AW)**

untuk aplikasi air bersih bertekanan

**Tee (AW)**

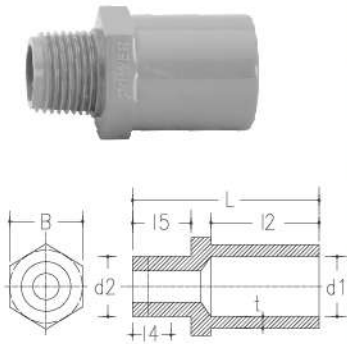


| Ukuran Produk        | d1     | l1 | d2     | l2   | H     | L     | t(min) |
|----------------------|--------|----|--------|------|-------|-------|--------|
| 1/2"                 | Ø22.4  | 30 | Ø22.4  | 30   | 43    | 86    | 3.3    |
| 3/4" x 1/2"          | Ø26.5  | 35 | Ø22.4  | 30   | 48    | 96    | 3.3    |
| 3/4"                 | Ø26.5  | 35 | Ø26.5  | 35   | 50    | 100   | 3.3    |
| 1" x 1/2"            | Ø32.5  | 40 | Ø22.4  | 30   | 53    | 106   | 3.7    |
| 1" x 3/4"            | Ø32.5  | 40 | Ø26.5  | 31   | 55    | 110   | 3.8    |
| 1"                   | Ø32.5  | 40 | Ø32.5  | 40   | 58    | 116   | 3.8    |
| 1¼" x 1/2"           | Ø42.6  | 44 | Ø22.4  | 30   | 54    | 112   | 4.2    |
| 1¼" x 3/4"           | Ø42.6  | 44 | Ø26.5  | 35   | 56    | 118   | 4.2    |
| 1¼" x 1"             | Ø42.6  | 44 | Ø32.5  | 40   | 62    | 124   | 4.2    |
| 1¼"                  | Ø42.6  | 44 | Ø42.6  | 44   | 69    | 138   | 4.2    |
| 1½" x 1/2"           | Ø48.7  | 55 | Ø22.4  | 30   | 58    | 136   | 4.2    |
| 1½" x 3/4"           | Ø48.7  | 55 | Ø26.5  | 35   | 62    | 140   | 4.2    |
| 1½" x 1"             | Ø48.7  | 55 | Ø32.5  | 40   | 67    | 146   | 4.2    |
| 1½" x 1¼"            | Ø48.7  | 55 | Ø42.6  | 44   | 77    | 156   | 4.2    |
| 1½"                  | Ø48.7  | 55 | Ø48.7  | 55   | 80    | 164   | 4.2    |
| 2" x 1/2"            | Ø60.8  | 63 | Ø22.4  | 30   | 63    | 152   | 4.5    |
| 2" x 3/4"            | Ø60.8  | 63 | Ø26.5  | 35   | 67    | 156   | 4.5    |
| 2" x 1"              | Ø60.8  | 63 | Ø32.5  | 40   | 73    | 162   | 4.5    |
| 2" x 1¼"             | Ø60.8  | 63 | Ø42.6  | 44   | 77    | 172   | 4.5    |
| 2" x 1½"             | Ø60.8  | 63 | Ø48.7  | 55   | 89    | 180   | 4.8    |
| 2"                   | Ø60.8  | 63 | Ø60.8  | 63   | 96    | 192   | 4.6    |
| 2½" x 2"             | Ø76.6  | 61 | Ø60.8  | 63   | 105   | 220   | 5.2    |
| 2½"                  | Ø76.6  | 61 | Ø76.6  | 61   | 110   | 220   | 5.2    |
| 3" x 1"              | Ø89.6  | 64 | Ø32.5  | 31.5 | 88    | 186   | 6.2    |
| <b>Baru</b> 3" x 1½" | Ø89.6  | 64 | Ø48.7  | 49   | 143   | 198   | 6.2    |
| 3" x 2"              | Ø89.6  | 64 | Ø60.8  | 63   | 105   | 210   | 6.2    |
| 3" x 2½"             | Ø89.6  | 64 | Ø76.6  | 61.5 | 120.5 | 228   | 6.2    |
| 3"                   | Ø89.6  | 64 | Ø89.6  | 64   | 120   | 240   | 6.2    |
| 4" x 1½"             | Ø114.7 | 87 | Ø48.7  | 46   | 133   | 238   | 7.6    |
| <b>Baru</b> 4" x 2"  | Ø114.7 | 87 | Ø60.8  | 53   | 140   | 247   | 7.6    |
| 4" x 2½"             | Ø114.7 | 87 | Ø76.6  | 58   | 145   | 267   | 7.6    |
| 4" x 3"              | Ø114.7 | 84 | Ø89.6  | 70.3 | 131.5 | 279.5 | 7.7    |
| 4"                   | Ø114.7 | 84 | Ø114.9 | 84   | 151   | 302   | 8.6    |

## FITTING PIPA uPVC (AW)

untuk aplikasi air bersih bertekanan

### Valve Socket (AW)



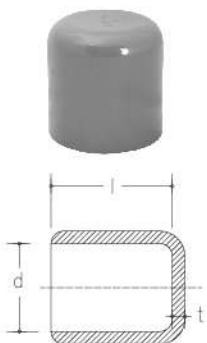
| Ukuran Produk | d1     | d2      | l2 | l4 | l5   | L   | B    | t(min) |
|---------------|--------|---------|----|----|------|-----|------|--------|
| 1/2"          | Ø22.4  | PT 1/2" | 30 | 15 | 18.5 | 55  | 29   | 3.3    |
| 1/2" x 3/4"   | Ø26.5  | PT 1/2" | 35 | 15 | 19   | 60  | 33   | 3.3    |
| 3/4" x 1/2"   | Ø22.4  | PT 3/4" | 30 | 17 | 21   | 59  | 33   | 3.3    |
| 3/4"          | Ø26.5  | PT 3/4" | 35 | 17 | 20.5 | 64  | 33   | 3.3    |
| 1" x 1/2"     | Ø22.4  | PT 1"   | 30 | 15 | 23   | 71  | 40   | 3.3    |
| 1" x 3/4"     | Ø26.5  | PT 1"   | 35 | 17 | 23   | 71  | 40   | 3.3    |
| 1"            | Ø32.5  | PT 1"   | 40 | 19 | 23   | 71  | 40   | 3.8    |
| 1¼"           | Ø42.6  | PT 1¼"  | 45 | 22 | 26   | 80  | 51   | 4.0    |
| 1½"           | Ø48.7  | PT 1½"  | 55 | 22 | 27   | 92  | 57.5 | 4.2    |
| 2"            | Ø60.8  | PT 2"   | 63 | 26 | 31   | 106 | 70.5 | 4.7    |
| 2½"           | Ø76.6  | PT 2½"  | 61 | 30 | 35   | 118 | 86.5 | 4.7    |
| 3"            | Ø89.6  | PT 3"   | 72 | 34 | 39   | 127 | 101  | 5.7    |
| 4"            | Ø114.7 | PT 4"   | 90 | 40 | 47   | 152 | 129  | 7.2    |

### 45° Elbow (AW)



| Ukuran Produk | d      | L    | H     | t(min) |
|---------------|--------|------|-------|--------|
| 2"            | Ø60.4  | 63.5 | 80.5  | 4.6    |
| 4"            | Ø114.7 | 84   | 121.3 | 7.6    |

### Cap (AW)



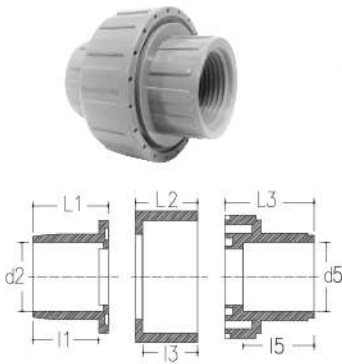
| Ukuran Produk | d      | l  | t(min) |
|---------------|--------|----|--------|
| 1/2"          | Ø22.4  | 33 | 3.5    |
| 3/4"          | Ø26.5  | 38 | 3.5    |
| 1"            | Ø32.6  | 40 | 4.0    |
| 2"            | Ø60.8  | 63 | 4.6    |
| 2½"           | Ø76.6  | 77 | 5.2    |
| 3"            | Ø89.6  | 83 | 6.1    |
| 4"            | Ø114.8 | 84 | 7.7    |

Baru

## FITTING PIPA uPVC (AW)

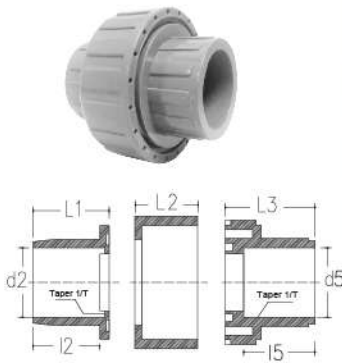
untuk aplikasi air bersih bertekanan

### Union Thread (AW)



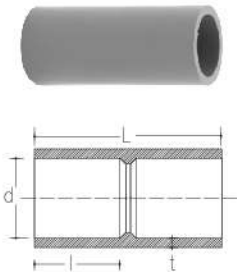
| Ukuran Produk | d2      | L1   | I1   | L2   | I3   | d5      | L3   | I5 |
|---------------|---------|------|------|------|------|---------|------|----|
| 1/2"          | PT 1/2" | 25   | 21.5 | 25.5 | 20.4 | PT 1/2" | 32.5 | 18 |
| 3/4"          | PT 3/4" | 28.6 | 23   | 27.4 | 22.5 | PT 3/4" | 34.5 | 21 |
| 1"            | PT 1"   | 30.4 | 18.6 | 27.2 | 22.3 | PT 1"   | 39.5 | 26 |

### Union Socket (AW)



| Ukuran Produk | d2    | L1   | I2   | L2   | d5    | L3   | I5   | 1/T  |
|---------------|-------|------|------|------|-------|------|------|------|
| 1/2"          | Ø22.4 | 25   | 21   | 25.5 | Ø22.4 | 32.5 | 21.5 | 1/34 |
| 3/4"          | Ø26.5 | 28.6 | 25   | 27.4 | Ø26.5 | 34.5 | 24.5 | 1/34 |
| 1"            | Ø32.5 | 30.4 | 26.5 | 27.2 | Ø32.5 | 39.5 | 26.5 | 1/34 |

### Socket (AW)

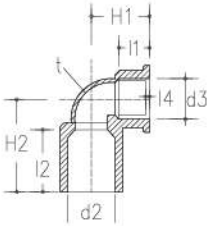


| Ukuran Produk | d      | L   | I   | t(min) |
|---------------|--------|-----|-----|--------|
| 1/2"          | Ø22.4  | 67  | 30  | 3.3    |
| 3/4"          | Ø26.5  | 77  | 35  | 3.4    |
| 1"            | Ø32.5  | 87  | 40  | 3.5    |
| 1¼"           | Ø42.6  | 95  | 44  | 4.2    |
| 1½"           | Ø48.7  | 117 | 55  | 4.2    |
| 2"            | Ø60.8  | 133 | 63  | 4.6    |
| 2½"           | Ø76.6  | 144 | 61  | 5.2    |
| 3"            | Ø89.6  | 155 | 64  | 6.2    |
| 4"            | Ø114.7 | 200 | 84  | 7.6    |
| 6"            | Ø166.0 | 300 | 132 | 10.0   |

## FITTING PIPA uPVC (AW)

untuk aplikasi air bersih bertekanan

### Faucet Elbow (AW)

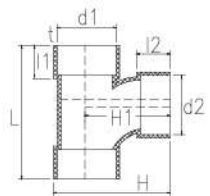


| Ukuran Produk | l1   | H1   | d2    | l2 | H2 | d3      | l4 | t(min) |
|---------------|------|------|-------|----|----|---------|----|--------|
| 1/2"          | 17   | 32   | Ø22.4 | 30 | 43 | PT 1/2" | 3  | 3.3    |
| 1/2" x 3/4"   | 17   | 32   | Ø26.5 | 35 | 51 | PT 1/2" | 3  | 3.3    |
| 3/4"          | 19   | 36   | Ø26.5 | 35 | 51 | PT 3/4" | 3  | 3.3    |
| 1"            | 21.5 | 39.5 | Ø32.5 | 40 | 59 | PT 1"   | 3  | 3.7    |

#### with Metal Insert

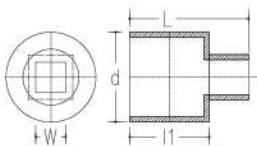
| Ukuran Produk | l1 | H1 | d2    | l2 | H2 | d3      | l4 | t(min) |
|---------------|----|----|-------|----|----|---------|----|--------|
| 1/2"          | 17 | 32 | Ø22.4 | 30 | 43 | PT 1/2" | 3  | 3.3    |
| 1/2" x 3/4"   | 17 | 32 | Ø26.5 | 35 | 51 | PT 1/2" | 3  | 3.3    |
| 3/4"          | 19 | 36 | Ø26.5 | 35 | 51 | PT 3/4" | 3  | 3.3    |

### Large Radius Tee (AW)



| Ukuran Produk | d1     | l1 | d2     | l2 | L   | H1    | H     | t(min) |
|---------------|--------|----|--------|----|-----|-------|-------|--------|
| 2"            | Ø60.8  | 63 | Ø60.8  | 63 | 218 | 136.8 | 169.5 | 4.5    |
| 3"            | Ø89.6  | 64 | Ø89.6  | 64 | 278 | 175   | 226   | 6.2    |
| 4"            | Ø114.7 | 84 | Ø114.8 | 84 | 340 | 214   | 279   | 7.7    |

### Plug (AW)

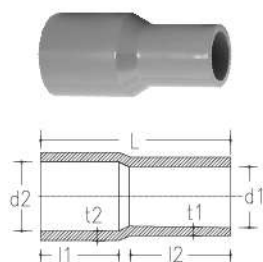


| Ukuran Produk | d       | l1   | L    | W    |
|---------------|---------|------|------|------|
| 1/2"          | PT 1/2" | 16.6 | 25.5 | 12.5 |
| 3/4"          | PT 3/4" | 18.7 | 28   | 15.5 |
| 1"            | PT 1"   | 24   | 35.8 | 18.5 |

## FITTING PIPA uPVC (AW)

untuk aplikasi air bersih bertekanan

### Reducing Socket (AW)

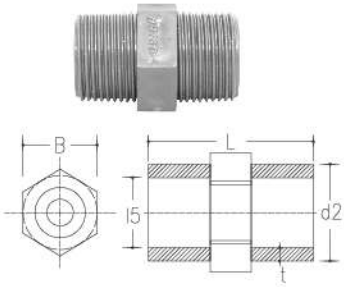


| Ukuran Produk        | d1    | d2     | L     | l1   | l2   | t1(min) | t2(min) |
|----------------------|-------|--------|-------|------|------|---------|---------|
| 3/4" x 1/2"          | Ø22.4 | Ø26.5  | 74    | 30   | 35   | 3.3     | 3.3     |
| 1" x 1/2"            | Ø22.4 | Ø32.5  | 84    | 30   | 40   | 3.3     | 4.0     |
| 1" x 3/4"            | Ø26.5 | Ø32.5  | 85    | 35   | 40   | 3.2     | 3.8     |
| 1¼" x 1/2"           | Ø22.4 | Ø42.6  | 99    | 30   | 44   | 3.2     | 3.3     |
| 1¼" x 3/4"           | Ø26.5 | Ø42.6  | 93    | 35   | 44   | 3.2     | 3.8     |
| 1¼" x 1"             | Ø32.6 | Ø42.6  | 94    | 40   | 44   | 3.7     | 4.3     |
| 1½" x 1/2"           | Ø22.4 | Ø48.7  | 110   | 30   | 55   | 3.2     | 4.3     |
| 1½" x 3/4"           | Ø26.5 | Ø48.7  | 116   | 35   | 55   | 3.2     | 4.2     |
| 1½" x 1"             | Ø32.5 | Ø48.7  | 114   | 40   | 55   | 3.7     | 4.2     |
| 1½" x 1¼"            | Ø42.6 | Ø48.7  | 115   | 44   | 55   | 3.7     | 4.3     |
| 2" x 1/2"            | Ø22.4 | Ø60.8  | 125   | 30   | 63   | 3.2     | 4.6     |
| 2" x 3/4"            | Ø26.5 | Ø60.8  | 125   | 35   | 63   | 3.2     | 4.6     |
| 2" x 1"              | Ø33.0 | Ø60.8  | 140   | 40   | 63   | 3.2     | 4.6     |
| 2" x 1¼"             | Ø42.6 | Ø60.8  | 125   | 44   | 63   | 3.7     | 4.7     |
| 2" x 1½"             | Ø48.7 | Ø60.8  | 136   | 55   | 63   | 4.2     | 4.7     |
| 2½" x 1½"            | Ø48.7 | Ø76.6  | 145   | 63.5 | 55.5 | 4.0     | 5.2     |
| 2½" x 2"             | Ø60.8 | Ø76.6  | 148.5 | 63.5 | 63   | 4.5     | 5.2     |
| 3" x 1"              | Ø32.5 | Ø89.6  | 125   | 65   | 38   | 3.8     | 6.2     |
| <b>Baru</b> 3" x 1¼" | Ø42.6 | Ø89.6  | 140   | 65   | 46   | 4.3     | 6.2     |
| 3" x 1½"             | Ø48.7 | Ø89.6  | 150   | 65   | 58   | 4.3     | 6.2     |
| 3" x 2"              | Ø60.8 | Ø89.6  | 165   | 63   | 64   | 4.4     | 6.2     |
| 3" x 2½"             | Ø76.6 | Ø89.6  | 158.5 | 64   | 61.5 | 5.2     | 6.2     |
| <b>Baru</b> 4" x 1½" | Ø42.6 | Ø114.7 | 179   | 63   | 84   | 4.3     | 7.6     |
| 4" x 2"              | Ø60.8 | Ø114.7 | 182   | 63   | 84   | 4.7     | 7.7     |
| <b>Baru</b> 4" x 2½" | Ø76.6 | Ø114.7 | 190   | 63   | 84   | 5.2     | 7.6     |
| 4" x 3"              | Ø89.6 | Ø114.7 | 190   | 64   | 84   | 6.3     | 7.5     |

## FITTING PIPA uPVC (D)

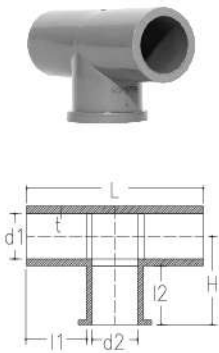
untuk aplikasi air pembuangan

### Double Nipple (AW)



| Ukuran Produk | d2      | I5   | L  | B  | t(min) |
|---------------|---------|------|----|----|--------|
| 1/2"          | PT 1/2" | 14.5 | 43 | 26 | 2.5    |
| 3/4"          | PT 3/4" | 19   | 49 | 30 | 2.5    |
| 1"            | PT 1"   | 24   | 57 | 36 | 3.3    |

### Faucet Tee (AW)

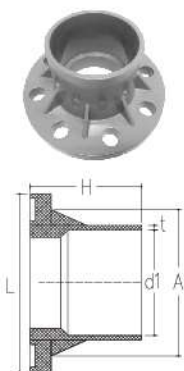


| Ukuran Produk | d1    | I1 | d2      | I2 | L   | H  | t(min) |
|---------------|-------|----|---------|----|-----|----|--------|
| 1/2"          | Ø22.4 | 30 | PT 1/2" | 19 | 86  | 32 | 3.3    |
| 1/2" x 3/4"   | Ø26.5 | 35 | PT 1/2" | 17 | 94  | 34 | 3.3    |
| 3/4"          | Ø26.5 | 35 | PT 3/4" | 19 | 102 | 37 | 3.3    |

with Metal Insert

| Ukuran Produk | d1    | I1 | d2      | I2 | L   | H  | t(min) |
|---------------|-------|----|---------|----|-----|----|--------|
| 1/2"          | Ø22.4 | 30 | PT 1/2" | 19 | 86  | 32 | 3.3    |
| 1/2" x 3/4"   | Ø26.5 | 35 | PT 1/2" | 17 | 94  | 34 | 3.3    |
| 3/4"          | Ø26.5 | 35 | PT 3/4" | 19 | 102 | 37 | 3.3    |

### Flange (AW)

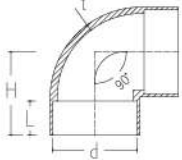


| Ukuran Produk | d1     | A     | H   | L   | t(min) | Holes |
|---------------|--------|-------|-----|-----|--------|-------|
| 2"            | Ø60.8  | 120   | 84  | 155 | 4.6    | 4     |
| 3"            | Ø89.6  | 150.7 | 96  | 185 | 5.7    | 8     |
| 4"            | Ø114.8 | 177   | 118 | 210 | 7.7    | 8     |
| 6"            | Ø165.9 | 240   | 164 | 280 | 9.5    | 8     |

## FITTING PIPA uPVC (D)

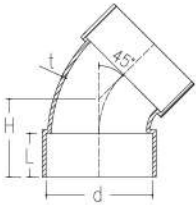
untuk aplikasi air pembuangan

### Elbow (D)



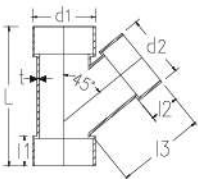
| Ukuran Produk | d      | L  | H   | t(min) |
|---------------|--------|----|-----|--------|
| 1¼"           | Ø42.3  | 20 | 44  | 2.8    |
| 1½"           | Ø48.3  | 22 | 49  | 2.8    |
| 2"            | Ø60.4  | 25 | 58  | 3.3    |
| 2½"           | Ø76.4  | 35 | 77  | 3.3    |
| 3"            | Ø89.5  | 40 | 88  | 3.7    |
| 4"            | Ø114.5 | 50 | 112 | 4.7    |
| 5"            | Ø140.7 | 65 | 140 | 5.4    |
| 6"            | Ø165.9 | 80 | 168 | 6.0    |

### 45° Elbow (D)



| Ukuran Produk | d      | L  | H   | t(min) |
|---------------|--------|----|-----|--------|
| 1¼"           | Ø42.3  | 20 | 33  | 2.8    |
| 1½"           | Ø48.3  | 22 | 36  | 2.8    |
| 2"            | Ø60.4  | 25 | 43  | 3.3    |
| 2½"           | Ø76.4  | 35 | 57  | 3.3    |
| 3"            | Ø89.5  | 40 | 65  | 3.8    |
| 4"            | Ø114.5 | 50 | 80  | 4.7    |
| 5"            | Ø140.7 | 65 | 103 | 5.3    |
| 6"            | Ø165.9 | 80 | 124 | 6.1    |

### Y-Branch (D)



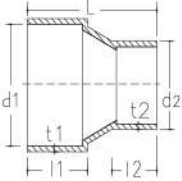
| Ukuran Produk | d1     | l1 | d2     | l2 | l3  | L   | t(min) |
|---------------|--------|----|--------|----|-----|-----|--------|
| 1½"           | Ø48.3  | 22 | Ø48.3  | 22 | 84  | 114 | 3.0    |
| 2"            | Ø60.4  | 25 | Ø60.4  | 25 | 103 | 142 | 3.9    |
| 3" x 2"       | Ø89.5  | 40 | Ø60.4  | 25 | 123 | 169 | 3.9    |
| 3"            | Ø89.5  | 40 | Ø89.5  | 40 | 155 | 210 | 3.9    |
| 4" x 2"       | Ø114.6 | 50 | Ø60.4  | 25 | 143 | 190 | 4.7    |
| 4"            | Ø114.6 | 50 | Ø114.6 | 50 | 194 | 266 | 4.7    |
| 6" x 4"       | Ø169.5 | 80 | Ø114.6 | 50 | 235 | 331 | 6.2    |
| 6"            | Ø165.9 | 80 | Ø165.9 | 80 | 289 | 407 | 6.2    |



**FITTING PIPA uPVC (D)**

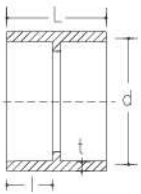
untuk aplikasi air pembuangan

**Increaser (D)**



| Ukuran Produk | d1     | l1  | d2     | l2 | L   | t1(min) | t2(min) |
|---------------|--------|-----|--------|----|-----|---------|---------|
| 1½" x 1¼"     | Ø48.5  | 22  | Ø42.3  | 20 | 62  | 3.0     | 2.9     |
| 2" x 1¼"      | Ø60.4  | 25  | Ø42.3  | 20 | 65  | 3.6     | 3.0     |
| 2" x 1½"      | Ø60.4  | 25  | Ø48.3  | 22 | 67  | 3.6     | 3.0     |
| 2½" x 1½"     | Ø76.4  | 35  | Ø48.5  | 23 | 77  | 3.5     | 2.9     |
| 2½" x 2"      | Ø76.4  | 35  | Ø60.4  | 25 | 80  | 3.7     | 3.5     |
| 3" x 1½"      | Ø89.5  | 40  | Ø48.5  | 22 | 87  | 3.8     | 2.9     |
| 3" x 2"       | Ø89.5  | 40  | Ø60.4  | 25 | 90  | 3.7     | 3.5     |
| 3" x 2½"      | Ø89.5  | 40  | Ø76.4  | 35 | 100 | 3.7     | 3.1     |
| 4" x 2"       | Ø114.5 | 50  | Ø60.4  | 25 | 105 | 4.8     | 3.3     |
| 4" x 2½"      | Ø114.5 | 50  | Ø76.4  | 35 | 115 | 4.8     | 3.3     |
| 4" x 3"       | Ø114.5 | 50  | Ø89.5  | 40 | 120 | 4.8     | 3.7     |
| 6" x 3"       | Ø165.9 | 80  | Ø89.5  | 40 | 161 | 6.0     | 3.7     |
| 6" x 4"       | Ø165.9 | 80  | Ø114.5 | 50 | 170 | 6.0     | 4.7     |
| 8" x 4"       | Ø217.3 | 105 | Ø114.5 | 50 | 225 | 7.2     | 4.7     |
| 8" x 6"       | Ø217.3 | 105 | Ø165.9 | 80 | 252 | 7.2     | 6.0     |

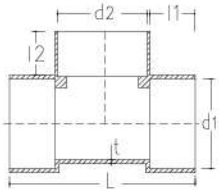
**Socket (D)**



| Ukuran Produk | d      | L   | l   | t(min) |
|---------------|--------|-----|-----|--------|
| 1¼"           | Ø42.3  | 43  | 20  | 2.9    |
| 1½"           | Ø48.3  | 47  | 22  | 2.9    |
| 2"            | Ø60.4  | 53  | 25  | 3.3    |
| 2½"           | Ø76.4  | 73  | 35  | 3.3    |
| 3"            | Ø89.5  | 84  | 40  | 3.8    |
| 4"            | Ø114.6 | 104 | 50  | 4.5    |
| 5"            | Ø140.7 | 134 | 65  | 5.2    |
| 6"            | Ø165.9 | 164 | 80  | 5.3    |
| 8"            | Ø217.3 | 215 | 105 | 7.2    |
| 10"           | Ø269.0 | 320 | 155 | 5.8    |

**FITTING PIPA uPVC (D)**  
untuk aplikasi air pembuangan

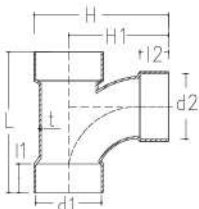
**Tee (D)**



**Baru**

| Ukuran Produk | d1     | l1  | d2     | L   | l2 | t (min) |
|---------------|--------|-----|--------|-----|----|---------|
| 1¼"           | Ø42.3  | 20  | Ø42.3  | 88  | 20 | 2.8     |
| 1½"           | Ø48.3  | 22  | Ø48.3  | 98  | 22 | 2.8     |
| 2"            | Ø60.4  | 25  | Ø60.4  | 118 | 25 | 3.3     |
| 2½" x 1½"     | Ø76.4  | 35  | Ø48.3  | 125 | 22 | 3.3     |
| 2½" x 2"      | Ø76.4  | 35  | Ø60.4  | 137 | 35 | 3.3     |
| 2½"           | Ø76.4  | 35  | Ø76.4  | 155 | 35 | 3.3     |
| 3" x 1½"      | Ø89.5  | 40  | Ø48.3  | 135 | 22 | 3.6     |
| 3" x 2"       | Ø89.5  | 40  | Ø60.4  | 147 | 25 | 3.7     |
| 3" x 2½"      | Ø89.5  | 40  | Ø76.4  | 165 | 35 | 3.6     |
| 3"            | Ø89.5  | 40  | Ø89.5  | 176 | 40 | 3.7     |
| 4" x 2"       | Ø114.5 | 50  | Ø60.4  | 171 | 25 | 4.7     |
| 4" x 3"       | Ø114.5 | 50  | Ø89.5  | 200 | 40 | 4.7     |
| 4"            | Ø114.5 | 50  | Ø114.5 | 224 | 50 | 4.7     |
| 5"            | Ø140.7 | 65  | Ø140.7 | 281 | 65 | 5.4     |
| 6" x 4"       | Ø165.9 | 80  | Ø114.8 | 287 | 40 | 5.6     |
| 6"            | Ø165.9 | 80  | Ø165.9 | 338 | 80 | 6.0     |
| 8" x 4"       | Ø217.3 | 105 | Ø114.5 | 335 | 50 | 5.5     |

**Large Radius Tee (D)**

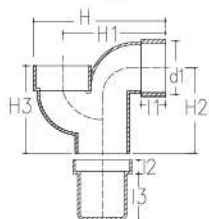


| Ukuran Produk | d1     | l1 | d2     | l2 | L   | H1  | H     | t(min) |
|---------------|--------|----|--------|----|-----|-----|-------|--------|
| 1½" x 1¼"     | Ø48.3  | 22 | Ø42.3  | 20 | 106 | 61  | 88    | 2.8    |
| 1½"           | Ø48.3  | 22 | Ø48.3  | 22 | 119 | 74  | 101   | 2.8    |
| 2" x 1½"      | Ø60.4  | 25 | Ø48.3  | 22 | 125 | 79  | 112.5 | 3.3    |
| 2"            | Ø60.4  | 25 | Ø60.4  | 25 | 142 | 91  | 124.5 | 3.3    |
| 2½" x 2"      | Ø76.4  | 35 | Ø60.4  | 25 | 163 | 99  | 140.5 | 3.3    |
| 2½"           | Ø76.4  | 35 | Ø76.4  | 35 | 193 | 125 | 166.5 | 3.3    |
| 3" x 2"       | Ø89.5  | 40 | Ø60.4  | 25 | 175 | 104 | 152.5 | 3.7    |
| 3"            | Ø89.5  | 40 | Ø89.5  | 40 | 210 | 140 | 188.5 | 3.7    |
| 4" x 2"       | Ø114.6 | 50 | Ø60.4  | 25 | 198 | 115 | 177   | 4.7    |
| 4" x 3"       | Ø114.6 | 50 | Ø89.5  | 25 | 233 | 150 | 212   | 4.7    |
| 4"            | Ø114.6 | 50 | Ø114.6 | 50 | 273 | 178 | 240   | 4.7    |
| 6" x 4"       | Ø165.9 | 80 | Ø114.6 | 50 | 341 | 202 | 291   | 6.3    |

## FITTING PIPA uPVC (D)

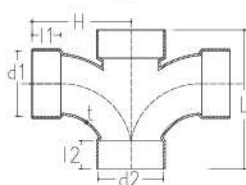
untuk aplikasi air pembuangan

### P-Trap (D)



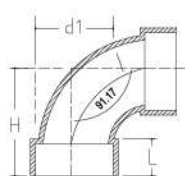
| Ukuran Produk | d1    | l1 | H1    | H2   | H3 | l2 | l3 | H   |
|---------------|-------|----|-------|------|----|----|----|-----|
| 2"            | Ø60.4 | 25 | 108.7 | 90.5 | 94 | 15 | 46 | 142 |

### Large Radius Double Tee (D)



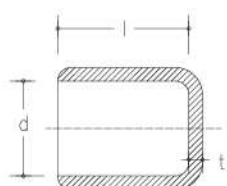
| Ukuran Produk | d1    | l1 | d2    | l2 | L   | H  | t(min) |
|---------------|-------|----|-------|----|-----|----|--------|
| 2"            | Ø60.4 | 25 | Ø60.4 | 25 | 142 | 91 | 3.3    |

### Large Radius Elbow (D)



| Ukuran Produk | d1     | L  | H   | t(min) |
|---------------|--------|----|-----|--------|
| 1¼"           | Ø42.3  | 20 | 65  | 2.8    |
| 2"            | Ø60.4  | 25 | 91  | 3.3    |
| 3"            | Ø89.6  | 40 | 140 | 3.7    |
| 4"            | Ø114.5 | 50 | 178 | 4.7    |
| 6"            | Ø165.9 | 80 | 250 | 6.0    |

### Cap (D)



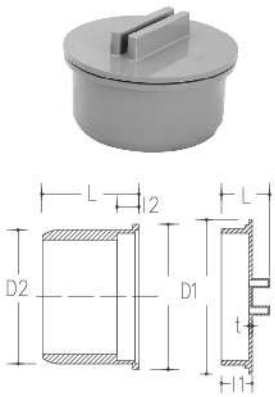
| Ukuran Produk | d      | l   | t(min) |
|---------------|--------|-----|--------|
| 1¼"           | Ø42.6  | 48  | 3.0    |
| 1½"           | Ø48.5  | 60  | 3.0    |
| 2"            | Ø60.4  | 66  | 3.3    |
| 2½"           | Ø76.4  | 60  | 3.3    |
| 3"            | Ø89.5  | 85  | 3.8    |
| 4"            | Ø114.6 | 100 | 4.7    |

## FITTING PIPA uPVC (D)

untuk aplikasi air pembuangan

### Clean Out (D)

#### Clean Out Socket

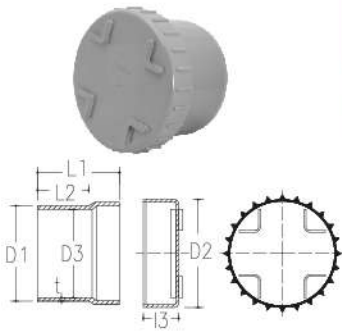


| Ukuran Produk | D1   | D2   | I2 | L  |
|---------------|------|------|----|----|
| 2"            | Ø70  | Ø60  | 11 | 35 |
| 3"            | Ø100 | Ø89  | 14 | 42 |
| 4"            | Ø128 | Ø114 | 14 | 52 |

#### Clean Out Cap

| Ukuran Produk | D1   | I1 | L  | t(min) |
|---------------|------|----|----|--------|
| 2"            | Ø70  | 17 | 26 | 5.0    |
| 3"            | Ø100 | 14 | 37 | 7.0    |
| 4"            | Ø128 | 14 | 38 | 7.0    |

### Clean Out Cap (D)



| Ukuran Produk | D1     | D3   | L1 | L2 | D2   | L3   | t(min) |
|---------------|--------|------|----|----|------|------|--------|
| 4"            | Ø113.6 | Ø114 | 81 | 55 | Ø134 | 27.5 | 4.5    |

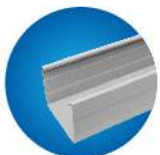
### Back Valve (D)



| Ukuran Produk | d      | L  | H   | t(min) |
|---------------|--------|----|-----|--------|
| 3"            | Ø89.5  | 36 | 95  | 3.8    |
| 4"            | Ø114.5 | 45 | 115 | 4.8    |

## TALANG uPVC

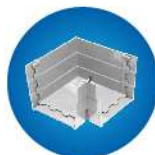
untuk aplikasi air hujan type G-140



GUTTER PROFILE



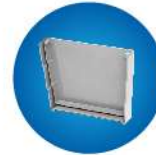
GUTTER OUTLET



GUTTER ANGLE



GUTTER UNION



GUTTER CAP



GUTTER BRACKET

## STOP KRAN / BALL VALVE

untuk membuka atau menutup aliran air

### KEUNGGULAN

- Bebas timbal
- Aman untuk air minum
- Lebih kuat
- Tahan lama



#### Ukuran (inch)

|      |      |    |
|------|------|----|
| 1/2" | 3/4" | 1" |
|------|------|----|

## TUSEN KLEP / FOOT VALVE

untuk menahan aliran air di dalam pipa agar tidak kembali turun ke bawah

### KEUNGGULAN

- Bebas timbal
- Aman untuk air minum
- Lebih kuat
- Tahan lama



#### Ukuran (inch)

|      |    |
|------|----|
| 3/4" | 1" |
|------|----|

## SARINGAN ATAP / ROOF DRAIN

untuk mencegah masuknya kotoran seperti daun, plastik, dan kertas kedalam pipa

### KEUNGGULAN

- Terbuat dari bahan PVC
- Bebas timbal
- Lebih kuat
- Tahan lama



#### Ukuran (inch)

|    |    |
|----|----|
| 3" | 4" |
|----|----|



## ISOLASI KRAN AIR / SEAL TAPE

untuk aplikasi ulir fitting dan kran

Solusi tepat untuk aplikasi penyambungan ulir fitting dan kran air. Terbuat dari 100% material PTFE (*Polytetrafluoroethylene*) dan terdapat 2 jenis *density* yang dapat dipilih sesuai dengan kebutuhan.



### KEUNGGULAN

Isolasi kran air:

- Lebih tebal, tahan lama dan fleksibel
- Mencegah kebocoran

Isolasi kran air:

- Harga ekonomis, tahan lama dan fleksibel
- Mencegah kebocoran



| Density (g/cm <sup>3</sup> ) | Ukuran (mm x m) |    |
|------------------------------|-----------------|----|
| 0.20                         | 12              | 10 |
| 0.35                         | 12              | 10 |



| Density (g/cm <sup>3</sup> ) | Ukuran (mm x m) |    |
|------------------------------|-----------------|----|
| 0.20                         | 12              | 10 |

# VIPLAS

## LEM PIPA & FITTING PVC untuk daya rekat yang terbaik

Viplas adalah lem perekat pipa/fitting PVC terbuat dari bahan berkualitas.



### KEUNGGULAN

- Memiliki daya rekat terbaik
- Tanpa timbal, tahan bocor dan sangat kuat
- Setelah satu hari, sambungan pipa dapat menahan tekanan hingga 10 bar

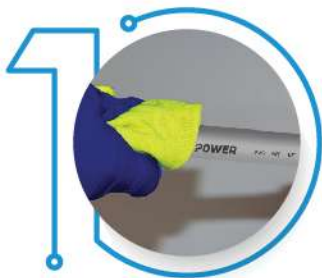
### REKOMENDASI PENGGUNAAN

untuk sambungan pipa & fitting PVC.

| Data Teknis      | Kemasan Tube<br>40 g dan 95 g | Kemasan Botol<br>55 g | Kemasan Kaleng<br>100 g dan 360 g |
|------------------|-------------------------------|-----------------------|-----------------------------------|
| Warna            | Bening Kekuningan             | Bening Kekuningan     | Bening Kekuningan                 |
| Bentuk           | Cairan                        | Cairan                | Cairan                            |
| Kekentalan 30°C  | 97-105 KU                     | 65-75 KU              | 65-75 KU                          |
| Berat Jenis 30°C | 0,94-0,97 g/ml                | 0,93-0,95 g/ml        | 0,93-0,95 g/ml                    |
| Kadar Kepadatan  | 25-28%                        | 13-16%                | 13-16%                            |
| Pengencer        | Tanpa Pengencer               | Tanpa Pengencer       | Tanpa Pengencer                   |
| Waktu Kering     | < 5 Menit                     | < 5 Menit             | < 5 Menit                         |
| Cara Aplikasi    | Kuas                          | Kuas                  | Kuas                              |

### PROSES PENYAMBUNGAN

menggunakan lem Viplas



Bersihkan kotoran pada permukaan pipa dan fitting



Ukur kedalaman *socket* dan beri tanda dengan spidol



Oleskan lem PVC VIPLAS secukupnya pada permukaan pipa dan fitting

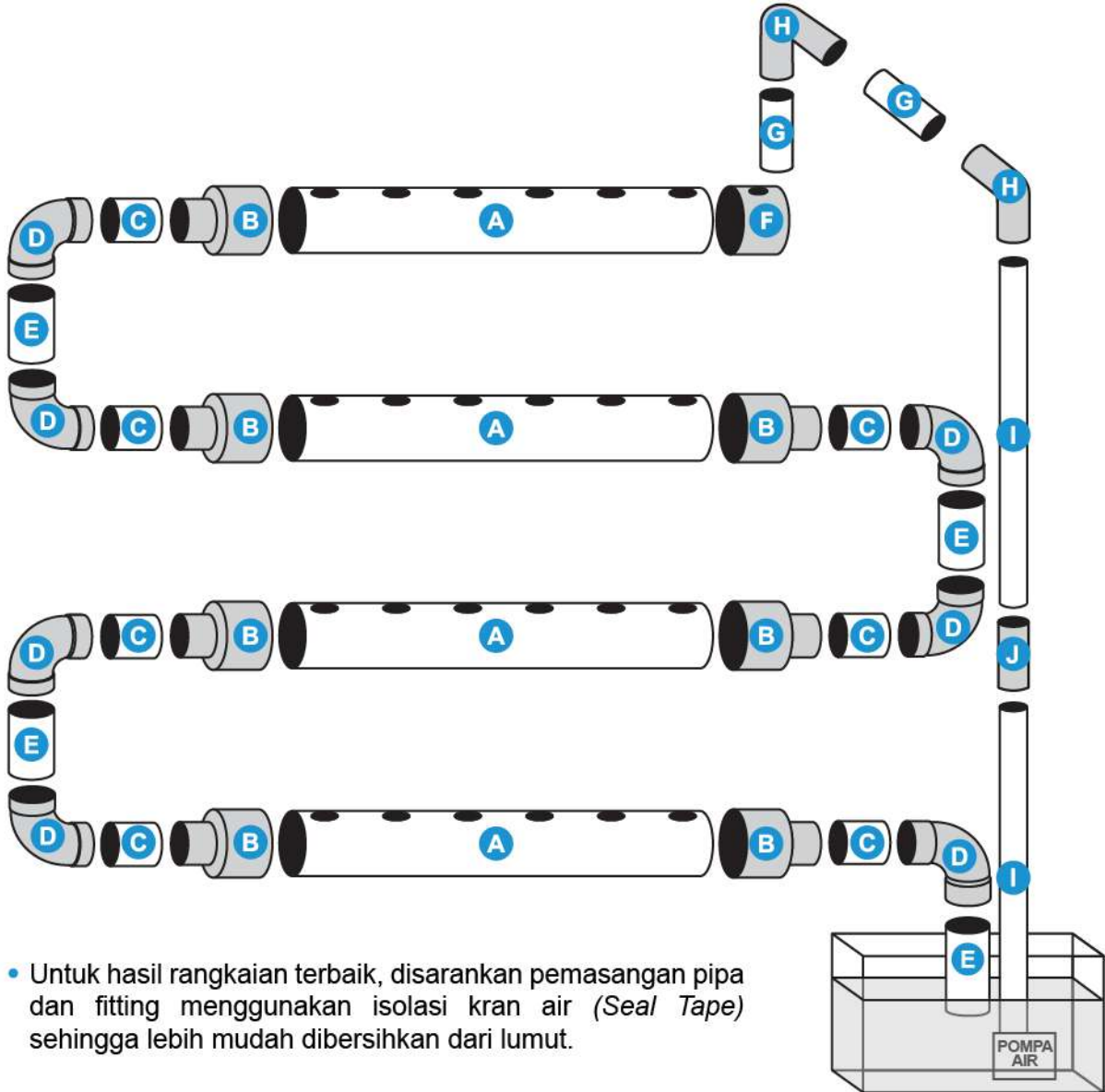


Sambungkan dengan segera dan tahan sesaat agar tidak berubah













Bersihkan sisa kelebihan lem PVC VIPLAS pada permukaan pipa dan fitting

# MEMBUAT RANGKAIAN HIDROPONIK SET



- Untuk hasil rangkaian terbaik, disarankan pemasangan pipa dan fitting menggunakan isolasi kran air (*Seal Tape*) sehingga lebih mudah dibersihkan dari lumut.

|   |                                      |        |   |                                       |        |
|---|--------------------------------------|--------|---|---------------------------------------|--------|
|  | <b>A</b> Pipa POWER MAX D3" (100 cm) | 4 biji |  | <b>F</b> Cap D3"                      | 1 biji |
|  | <b>B</b> Inceaser D3" x 2"           | 7 biji |  | <b>G</b> Pipa POWER MAX AW ½" (8 cm)  | 2 biji |
|  | <b>C</b> Pipa POWER MAX D2" (4 cm)   | 7 biji |  | <b>H</b> Elbow AW ½"                  | 2 biji |
|  | <b>D</b> Elbow D2"                   | 7 biji |  | <b>I</b> Pipa POWER MAX AW ½" (80 cm) | 2 biji |
|  | <b>E</b> Pipa POWER MAX D2" (30 cm)  | 4 biji |  | <b>J</b> Socket AW ½"                 | 1 biji |



# SERTIFIKASI

## ISO 9001:2015

### CERTIFICATE

Certificate No. QSC 01600

**SUCOFINDO INTERNATIONAL CERTIFICATION SERVICES**  
 Graha Sucofindo B1 Floor - J. Raya Pasar Minggu Kav. 34 Jakarta 12710  
 Phone: +62-21-7903000 ext. 1021; Fax: +62-21-7907015/7907019; Email: cs@sucofindo.co.id

Masyarakat bahwa  
 Gertiyu this

**PT. AVIA AVIAN INDUSTRI PIPA**  
 Wotan Indo Industrial Estate  
 Jl. Raya Dondoy Km. 34, Desa Wotan, Kec. Panceng  
 Gresik, Jawa Timur - INDONESIA

telah menerapkan sistem manajemen mutu yang mematuhi  
 has implemented quality management system that comply with

**SNI ISO 9001:2015**  
**Quality Management Systems-Requirements**

Ruang lingkup sertifikasi:  
 The scope of certification:

Pabrik Pipa PVC, Talang PVC dan Fitting PVC.  
 Not applicable Clause:  
 8.5.3 Property belonging to Customers or External Providers

**SECTOR CODE : 14**

Sertifikat ini berlaku dari 12 Februari 2022 sampai 10 Januari 2025  
 This certificate is valid from February 12<sup>th</sup>, 2022 until January 10<sup>th</sup>, 2025

Sertifikat ini diberikan pertama kali pada 11 Januari 2019  
 This certificate has been granted for the first time on January 11<sup>th</sup>, 2019

*Darwin Abas*  
 Ketua Badan Pelaksana  
 Chairman of Governing Board

3153274  
 S01-2087A

## SNI 06-0084-2002

### CERTIFICATE

Certificate No. PCS 00811.01

**SUCOFINDO INTERNATIONAL CERTIFICATION SERVICES**  
 Graha Sucofindo B1 Floor - J. Raya Pasar Minggu Kav. 34 Jakarta 12710  
 Phone: +62-21-7903000 ext. 1021; Fax: +62-21-7907015/7907019; Email: cs@sucofindo.co.id

Masyarakat/generasi ini kepada  
 Having grants to:

**PT. AVIA AVIAN INDUSTRI PIPA**  
 Wotan Indo Industrial Estate, Jl. Raya Dondoy Km.34, Desa Wotan,  
 Kec. Panceng, Gresik, Jawa Timur

**Sertifikat Produk Penggunaan Tanda SNI** dan

Product Certificate for Use of Marking on:

|   |   |
|---|---|
| <b>PRODUK</b> (Produk) : Pipa PVC untuk Sektur Air Minum (Pipa Pipa) (Water Pipe) | <b>PROSES</b> (Process) : PT. AVIA AVIAN INDUSTRI PIPA  |
| <b>TYPE / MODEL</b> (Type / Model) : Unjal Lempitan (Unjal Lempitan)              | <b>Tahun menerbitkan</b> (Issue Year) : SNI 06-0084-2002  |
| <b>SPEKIFIKAS</b> (Specification) : Unjal Lempitan (Unjal Lempitan)               | <b>Tanggal berlaku</b> (Valid Until) : No. PVC untuk Sektor Air Minum   |
| <b>MERKE</b> (Mark) : POWER   | <b>Sertifikat ini berdasarkan sistem yang terdiri dari:</b> Audit Pabrik, Pengujian dan Pengawasan Berkelanjutan (Tipe 5) |

**Sertifikat ini berdasarkan sistem yang terdiri dari:** Audit Pabrik, Pengujian dan Pengawasan Berkelanjutan (Tipe 5)

**SNI**

*Ir. Triyan Aldifitri, M.M.*  
 Vice President

This certificate is valid from March 04<sup>th</sup>, 2019 until March 25<sup>th</sup>, 2023

Sertifikat ini diterbitkan berdasarkan pada kesepakatan antara "Pihak Sertifikasi" Agreement "The certificate is granted" based on the provisions of "Product Certificate Agreement"

3153228  
 S01-2317A

## BEBAS TIMBAL

Certificate No. 12331/EDSOAG  
 Date: October 1, 2013

**SUCOFINDO**  
 Trading Office  
 J. Jend. A. Yani, No. 345 Surabaya 60264, Indonesia  
 Phone/Fax: +62 31 5420476/27253  
 Email: info@sucofindo.co.id

**REPORT OF ANALYSIS**

**CLIENT** : PT. AVIA AVIAN  
 Jl. Raya Surabaya - Sidoarjo KM. 19  
 Buduran - Sidoarjo

THE FOLLOWING SAMPLE(S) WERE/WAS SUBMITTED AND IDENTIFIED BY CLIENT AS:

**TYPE OF SAMPLE** : PVC PIPE

**TEST REQUIRED** : Rohm (Barium) Contents of Lead (Pb), Cadmium (Cd), Chromium Hexavalent (Cr<sup>6+</sup>), Mercury (Hg), Polychlorinated Biphenyls (PCBs) and Polychlorinated Biphenyls (PCBs) as specified with directive 2002/95/EC content

**SAMPLE IDENTIFICATION** : selanjutnya akan diidentifikasi oleh dan diperiksa oleh SUCOFINDO PIPA PVC POWER (MAX 4W 1 WARNA PUTIH)

**DATE OF RECEIVED** : September 10, 2013

**DESCRIPTION OF SAMPLE** : Form : Pipe  
 Quantity received : 1 piece (80 cm x 1")  
 Packing : Unpacked

**PERIOD OF ANALYSIS** : September 10 up to 25, 2013

**TEST RESULT** : See attachment

The Attachment available is an integral part of this certificate.

The Certificate is available for download from the website: [www.sucofindo.co.id](http://www.sucofindo.co.id)

Dept. of Central and Environmental Testing

*Mam*  
 MAM

9131982  
 KAS  
 SBL0P221036056-02

Certificate No. 12333/SBCBAG  
 Date: October 1, 2013

**SUCOFINDO**  
 Trading Office  
 J. Jend. A. Yani, No. 345 Surabaya 60264, Indonesia  
 Phone/Fax: +62 31 5420476/27253  
 Email: info@sucofindo.co.id

**REPORT OF ANALYSIS**

**CLIENT** : PT. AVIA AVIAN  
 Jl. Raya Surabaya - Sidoarjo KM. 19  
 Buduran - Sidoarjo

THE FOLLOWING SAMPLE(S) WERE/WAS SUBMITTED AND IDENTIFIED BY CLIENT AS:

**TYPE OF SAMPLE** : PVC PIPE

**TEST REQUIRED** : Rohm (Barium) Contents of Lead (Pb), Cadmium (Cd), Chromium Hexavalent (Cr<sup>6+</sup>), Mercury (Hg), Polychlorinated Biphenyls (PCBs) and Polychlorinated Biphenyls (PCBs) as specified with directive 2002/95/EC content

**SAMPLE IDENTIFICATION** : selanjutnya akan diidentifikasi oleh dan diperiksa oleh SUCOFINDO PIPA PVC POWER (3 WARNA JELABU)

**DATE OF RECEIVED** : September 10, 2013

**DESCRIPTION OF SAMPLE** : Form : Pipe  
 Quantity received : 1 piece (80 cm x 3")  
 Packing : Unpacked

**PERIOD OF ANALYSIS** : September 10 up to 20, 2013

**TEST RESULT** : See attachment

The Attachment available is an integral part of this certificate.

The Certificate is available for download from the website: [www.sucofindo.co.id](http://www.sucofindo.co.id)

Dept. of Central and Environmental Testing

*Mam*  
 MAM

9131987  
 KAS  
 SELCP220130505-01





# PIPA KUAT TANPA TIMBAL



PWR08/2007

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