



The Real Pumping Experience



An ISO 9001 & 14001 Company

ALGO PIPES
CONNECTING TECHNOLOGIES

www.algpumps.com



Algo Profile

Algo positions itself as not just a pump manufacturing company but as a dependable, technologically sound and one stop solution provider to meet the diverse needs of customers across the globe. Understanding the need of efficient and cost effective pumping solutions and fluid management systems ALGO is established by the veterans having more than 33 years of diversified experience.

To overcome the current challenges in providing energy efficient and complete pumping solutions and meet the requirement of discerning customers ALGO is determined to offer technologically integrated and inventive pumping systems & Solutions at affordable prices.

With the vast experience gained in both domestic and international markets ALGO products are designed and produced with synergy of best in class technologies and processes with international standards. Most of its products are ISI certified and manufacturing facilities are accredited with ISO 9001 & 14001 COMPANY

Algo stays abreast of the major changes worldwide in terms of technology and processes. This combines with the ability to understand customers' requirement allows for the development of products that meet the challenges of tomorrow.

Algo has comprehensive range of products to cater Residential, Agriculture, Building services, Industrial & waste water segments. Algo's highly qualified Engineers and technicians assure satisfactory service at all time

The ability & Impetus of ALGO in product development, Pricing, Promotion, e-commerce strategies will result in sustainable competitive advantages for all stake holders. We at ALGO always strive to focus on current industry trend and meet the next generation pumping requirements.





Quality Policy

We are determined to offer reliable & Innovative products and services with high standards, dedicated to understand & meet customers' requirements on time.

We are committed to focus on introducing industry best technologies & concepts to save energy, protect environment and to give high priority for customers' satisfaction

👁 Vision ⚙ Mission 🏆 Values

To provide technologically integrated and ultramodern fluid management systems and solutions for diversified applications at affordable prices and become one of the pump majors globally

To ensure that we meet all the standards of safety, efficiency, hygiene and environment protection and contribute significantly in developing systems for energy saving.

Our Values are defined by our dedication to Quality, Principles & success of the company and its stakeholders.

ALGO Value Proposition

Affordable Price

Longer Life

Greater Performance

Outstanding Service

Our Infrastructure

An ISO 9001 & 14001 Company





uPVC Column Pipes

Salient Features

- Corrosion Free
- Easy Installation & Handling
- Very Low Friction Loss
- Termite Proof
- Non Toxic & Resistant to chemical reactions
- Unbreakable & longer life span upto 25 years.
- The best alternative for G.I Pipes and cost effective.



For all coupler Types



Unbreakable



Up to 6" (150 mm)

Specification

- Maximum ambient temperature 70°C
- Maximum installation depth 370m
- Installation: Vertical, Horizontal or Inclined

Applications

- Used as riser pipe for submersible and jet pump for Irrigation & Domestic purposes
- Industrial mining and Chemical distribution
- The best replacement for MS, PPR, ERW, GI, HDPE and Stainless Steel column pipes
- uPVC is nearly inert towards corrosion, chemical reaction and erosion, so that, it is ideally used in salty, sandy and

Special Features

- Surface finish of this pipe is extremely smooth which reduces the hydraulic friction losses & helps improve the flow
- Internal and external square threaded spigot ends and rubber gasket for easy and reliable jointing and pressure sealing
- Special square thread gives quick & easy installation facility and provides strength
- Provision of inside seal ring to prevent friction loss & over tightening
- Provision of step ring to stop leakage & over tightening

Other Advantages

- Corrosion-proof even if pipes are fitted with MS and CI top & bottom pipe adaptors.
- Inkjet / Laser printing & Hallmark to prevent duplication in market
- Provision of outer seal ring to prevent leakage & over tightening
- Very smooth internal surface increases 10% to 20% water flow & reduces 10% to 20% power consumption
- Freezing Technology & Screw locking system ensure a trouble free pumping .

| Wall Thickness of Column Pipes | | | | | | Technical Data | | | |
|--------------------------------|-------|--------------------------|------------------------------|----------------|------|----------------|----------|-------|-------------|
| Product Range | | All dimensions are in mm | | | | | | | |
| Nominal Diameter | | Nominal O.D. | O.D. including coupler (Max) | Wall Thickness | | | | | |
| mm | inch | | | Primo ++ | Nano | Medium | Standard | Heavy | Super Heavy |
| 25 | 1.00" | 33.30 | 46.10 | 3.30 | 3.50 | 3.50 | 4.80 | - | - |
| 32 | 1.25" | 42.16 | 55.10 | 4.10 | 4.20 | 4.20 | 5.00 | 6.40 | - |
| 40 | 1.50" | 48.26 | 62.50 | - | 4.30 | 4.30 | 5.20 | 6.00 | - |
| 50 | 2.00" | 60.32 | 79.00 | - | 4.60 | 4.80 | 6.00 | 7.30 | 8.00 |
| 65 | 2.50" | 75.15 | 91.80 | - | 5.30 | 5.30 | 6.60 | 8.70 | 10.00 |
| 80 | 3.00" | 88.20 | 110.00 | - | - | 6.00 | 7.40 | 9.90 | 10.50 |
| 100 | 4.00" | 113.30 | 136.50 | - | - | 6.50 | 8.50 | 12.0 | 12.50 |
| 125 | 5.00" | 141.30 | 165.00 | - | - | 7.70 | 10.20 | 15.20 | 16.50 |
| 150 | 6.00" | 165.00 | 205.00 | - | - | - | 14.00 | 16.50 | 22.00 |

| Packing Details (Nos. of Pipes/Bundle) | | |
|--|---------|-------------|
| mm | 3 Meter | 5.8/6 Meter |
| 1.00" | 25 | - |
| 1.25" | 25 | - |
| 1.50" | 20 | - |
| 2.00" | 10 | - |
| 2.50" | 10 | 5 |
| 3.00" | 5 | 3 |
| 4.00" | 5 | 3 |
| 5.00" | 3 | 2 |
| 6.00" | 3 | 2 |

| Pressure Ratings for Column Pipes (kg/cm ²) | | | | | | | |
|---|-------|----------|------|--------|----------|-------|-------------|
| Size | | Primo ++ | Nano | Medium | Standard | Heavy | Super Heavy |
| mm | inch | | | | | | |
| 25 | 1.00" | 12.50 | 15 | 21 | 27 | - | - |
| 32 | 1.25" | 12.50 | 15 | 21 | 27 | 35 | - |
| 40 | 1.50" | - | 15 | 21 | 27 | 35 | - |
| 50 | 2.00" | - | 13 | 18 | 21 | 27 | 35 |
| 65 | 2.50" | - | 13 | 15 | 18 | 27 | 35 |
| 80 | 3.00" | - | - | 11 | 18 | 27 | 35 |
| 100 | 4.00" | - | - | 10 | 16 | 27 | 35 |
| 125 | 5.00" | - | - | 10 | 16 | 27 | 35 |
| 150 | 6.00" | - | - | - | 16 | 27 | 35 |

| Types | Identity Printing Color |
|-------------|-------------------------|
| Primo ++ | Orange |
| Nano | Peacock Blue |
| Medium | Blue |
| Standard | Red |
| Heavy | Green |
| Super Heavy | Black |

Weight, Load & Pressure Carrying Capacity

| Type & Size OD - Outer Dia. NB - Nominal Bore | Net Weight (kg.) | Ultimate Breaking Load (kg.) | Max Pulling Load with Chain Pulley or Crane (kg.) | Max Allowable Hydrostatic Pressure (kg.) | Max Total Shut Off Head of The Pump (mtr.) | Recommended Installation Depth of Pipes Max. (mtr.) | Recommended Installation Depth of Pipes Max. (ft.) | Weight of Pipes at Recommended Installation Depth (kg.) (A) | Weight of Water at Recommended Installation Depth (kg.) (B) | Weight of Pump & Motor at Recommended Installation Depth (kg.) (C) | Total Weight at Recommended Installation Depth (A+B+C) |
|---|---------------------|---------------------------------|--|---|---|--|---|---|---|--|---|
| OD : 33mm (1") NB : 25 mm | | | | | | | | | | | |
| Primo++ | 0.97 | 850 | 500 | 12.50 | 125 | 88 | 287 | 28 | 43 | 25 | 96 |
| Nano | 1.08 | 1000 | 580 | 15.00 | 150 | 105 | 344 | 38 | 52 | 35 | 125 |
| Medium | 1.31 | 1500 | 800 | 21.00 | 210 | 147 | 482 | 64 | 72 | 42 | 178 |
| Standard | 1.63 | 2200 | 1250 | 27.00 | 270 | 189 | 620 | 103 | 93 | 45 | 241 |
| OD : 42mm (1.25") NB : 32 mm | | | | | | | | | | | |
| Primo++ | 1.48 | 1600 | 800 | 12.50 | 125 | 88 | 287 | 43 | 71 | 27 | 141 |
| Nano | 1.58 | 1720 | 900 | 15.00 | 150 | 105 | 344 | 55 | 84 | 38 | 177 |
| Medium | 1.94 | 1800 | 1150 | 21.00 | 210 | 147 | 482 | 95 | 118 | 40 | 253 |
| Standard | 2.14 | 2650 | 1400 | 27.00 | 270 | 189 | 620 | 135 | 152 | 60 | 347 |
| Heavy | 2.80 | 3100 | 1800 | 35.00 | 350 | 245 | 804 | 230 | 197 | 84 | 511 |
| OD : 48mm (1.5") NB : 40 mm | | | | | | | | | | | |
| Nano | 2.00 | 2000 | 1000 | 15.00 | 150 | 105 | 344 | 70 | 150 | 45 | 265 |
| Medium | 2.30 | 2300 | 1200 | 21.00 | 210 | 147 | 482 | 113 | 185 | 60 | 358 |
| Standard | 2.62 | 3200 | 1700 | 27.00 | 270 | 189 | 620 | 165 | 237 | 75 | 477 |
| Heavy | 3.47 | 4200 | 2200 | 35.00 | 350 | 245 | 804 | 285 | 308 | 86 | 679 |
| OD : 60mm (2") NB : 50 mm | | | | | | | | | | | |
| Nano | 2.35 | 2730 | 1750 | 13.00 | 130 | 91 | 298 | 71 | 179 | 58 | 308 |
| Medium | 2.70 | 3040 | 2000 | 18.00 | 180 | 126 | 413 | 113 | 247 | 80 | 440 |
| Standard | 3.90 | 5098 | 2700 | 21.00 | 210 | 147 | 482 | 191 | 288 | 110 | 589 |
| Heavy | 4.60 | 5682 | 3200 | 27.00 | 270 | 189 | 620 | 290 | 371 | 128 | 789 |
| Super Heavy | 5.48 | 6200 | 3600 | 35.00 | 350 | 245 | 804 | 449 | 481 | 145 | 1075 |

Weight, Load & Pressure Carrying Capacity

| Type & Size OD - Outer Dia. NB - Nominal Bore | Net Weight (kg.) | Ultimate Breaking Load (kg.) | Max Pulling Load with Chain Pulley or Crane (kg.) | Max Allowable Hydrostatic Pressure (kg.) | Max Total Shut Off Head of The Pump (mtr.) | Recommended Installation Depth of Pipes Max. (mtr.) | Recommended Installation Depth of Pipes Max. (ft.) | Weight of Pipes at Recommended Installation Depth (kg.) (A) | Weight of Water at Recommended Installation Depth (kg.) (B) | Weight of Pump & Motor at Recommended Installation Depth (kg.) (C) | Total Weight at Recommended Installation Depth (A+B+C) |
|---|---------------------|---------------------------------|--|---|---|--|---|---|---|--|---|
| OD : 75mm (2.5") NB : 65 mm | | | | | | | | | | | |
| Medium | 3.93 | 4496 | 2800 | 15.00 | 150 | 105 | 344 | 138 | 348 | 98 | 584 |
| Standard | 4.75 | 5934 | 3600 | 18.00 | 180 | 126 | 413 | 200 | 418 | 125 | 743 |
| Heavy | 6.12 | 7432 | 4200 | 27.00 | 270 | 189 | 620 | 386 | 627 | 180 | 1193 |
| Super Heavy | 7.75 | 9194 | 5300 | 35.00 | 350 | 245 | 804 | 636 | 812 | 203 | 1651 |
| OD : 88mm (3") NB : 80 mm | | | | | | | | | | | |
| Medium | 4.85 | 5934 | 4000 | 11.00 | 110 | 77 | 253 | 126 | 349 | 120 | 595 |
| Standard | 6.60 | 9112 | 5010 | 18.00 | 180 | 126 | 413 | 277 | 572 | 220 | 1069 |
| Heavy | 8.70 | 10000 | 6000 | 27.00 | 270 | 189 | 620 | 548 | 857 | 380 | 1785 |
| Super Heavy | 10.61 | 12000 | 7250 | 35.00 | 350 | 245 | 804 | 870 | 1111 | 418 | 2399 |
| OD : 113mm (4") NB : 100 mm | | | | | | | | | | | |
| Medium | 7.60 | 11402 | 4500 | 10.00 | 100 | 70 | 230 | 175 | 549 | 181 | 905 |
| Standard | 9.80 | 12150 | 7250 | 16.00 | 160 | 112 | 367 | 363 | 879 | 326 | 1568 |
| Heavy | 14.45 | 15980 | 5950 | 27.00 | 270 | 189 | 620 | 910 | 1484 | 441 | 2835 |
| Super Heavy | 16.45 | 19500 | 12000 | 35.00 | 350 | 245 | 804 | 1349 | 1924 | 455 | 3728 |
| OD : 140mm (5") NB : 125 mm | | | | | | | | | | | |
| Medium | 13.25 | 12000 | 7540 | 10.00 | 100 | 70 | 230 | 305 | 859 | 176 | 1340 |
| Standard | 16.15 | 16000 | 10100 | 16.00 | 160 | 112 | 367 | 598 | 1374 | 377 | 2349 |
| Heavy | 18.90 | 23860 | 15100 | 27.00 | 270 | 189 | 620 | 1191 | 2319 | 465 | 3975 |
| Super Heavy | 24.50 | 30000 | 18000 | 35.00 | 350 | 245 | 804 | 2009 | 3006 | 478 | 5493 |
| OD : 165mm (6") NB : 150 mm | | | | | | | | | | | |
| Standard | 30.00 | 22500 | 12550 | 16.00 | 160 | 112 | 367 | 1110 | 1979 | 650 | 3739 |
| Heavy | 35.00 | 40000 | 23500 | 27.00 | 270 | 189 | 620 | 2520 | 3340 | 980 | 6840 |

Accessories for uPVC Column Pipes

Cast Iron (CI) Top & Bottom Adaptor

Suitable for Medium, Standard & Heavy Column Pipes



Bottom Top

Specification

| | |
|------------|------------------------------|
| Metal | CI |
| Diameter | 1" to 6" |
| Finishing | Colour Coated |
| Thickness | 7mm to 12mm |
| Connection | Square Thread / Pipe Thread* |

Cast Iron (CI) S.H Bottom Adaptor

Suitable for Super Heavy Column Pipes



Bottom

Specification

| | |
|------------|------------------------------|
| Metal | CI |
| Diameter | 1.1/4" to 6" |
| Finishing | Colour Coated |
| Thickness | 8mm to 12mm |
| Connection | Square Thread / Pipe Thread* |

Mild Steel (MS) Top Adaptor

Suitable for Medium, Standard & Heavy Column Pipes



Top

Specification

| | |
|------------|------------------------------|
| Metal | MS |
| Diameter | 1" to 6" |
| Finishing | Colour Coated |
| Thickness | 5mm to 9mm |
| Connection | Square Thread / Pipe Thread* |

Mild Steel (MS) S.H Top Adaptor

Suitable for Super Heavy Column Pipes



Top

Specification

| | |
|------------|------------------------------|
| Metal | MS |
| Diameter | 1.1/4" to 6" |
| Finishing | Colour Coated |
| Thickness | 6mm to 12mm |
| Connection | Square Thread / Pipe Thread* |

Note :

Top Adaptors - Double Clamp

* Available with both BSP & NPT Connections

Accessories for uPVC Column Pipes

Stainless Steel Top & Bottom Adaptor

Suitable for Medium, Standard & Heavy Column Pipes



Specification

| | |
|------------|------------------------------|
| Metal | SS 304 |
| Diameter | 1" to 6" |
| Finishing | Glossy / Matte Steel Finish |
| Thickness | 5mm to 9mm |
| Connection | Square Thread / Pipe Thread* |

Top Bottom

Note : Top Adaptors - Double Clamp

Stainless Steel 304 (SS) S.H Top Adaptor

Suitable for Super Heavy Column Pipes



Specification

| | |
|------------|------------------------------|
| Metal | SS 304 |
| Diameter | 1.1/4" to 6" |
| Finishing | Glossy / Matte Steel Finish |
| Thickness | 6mm to 10mm |
| Connection | Square Thread / Pipe Thread* |

Top

Note : Top Adaptors - Double Clamp

Cast Iron (CI) Reducer & Expander - Bottom



Specification

| | |
|------------|---|
| Metal | CI |
| Diameter | 1.1/4" x 1" to 5" x 4" (Reducer) 1" x 1.1/4" to 4" x 5" (Expander) |
| Finishing | Colour Coated |
| Thickness | 7mm to 12mm |
| Connection | Square Thread / Pipe Thread* |

Reducer Expander

Note : * Available with both BSP & NPT Connections

Stainless Steel Reducer & Expander - Bottom



Specification

| | |
|------------|---|
| Metal | SS 304 |
| Diameter | 1.1/4" x 1" to 5" x 4" (Reducer) 1" x 1.1/4" to 4" x 5" (Expander) |
| Finishing | Glossy / Matte Steel Finish |
| Thickness | 6mm to 10mm |
| Connection | Square Thread / Pipe Thread* |

Reducer Expander

Accessories for uPVC Column Pipes

Pump Guard MS Flange



Specification

| | |
|------------|-----------------|
| Metal | MS |
| Diameter | 1" to 6" |
| Finishing | Colour Coated |
| Thickness | 8mm to 12mm |
| Connection | Stud Clamp Type |

Pump Guard SS 304 Flange



Specification

| | |
|------------|-----------------------------|
| Metal | SS 304 |
| Diameter | 1" to 6" |
| Finishing | Glossy / Matte Steel Finish |
| Thickness | 8mm to 12mm |
| Connection | Stud Clamp Type |

Pump Guard SS 202 ROD



Specification

| | |
|------------|-------------------------------|
| Metal | SS 202 |
| Diameter | 17", 20", 22", 24", 26" & 27" |
| Finishing | Glossy / Matte Steel Finish |
| Thickness | 12mm |
| Connection | Stud Clamp Type |

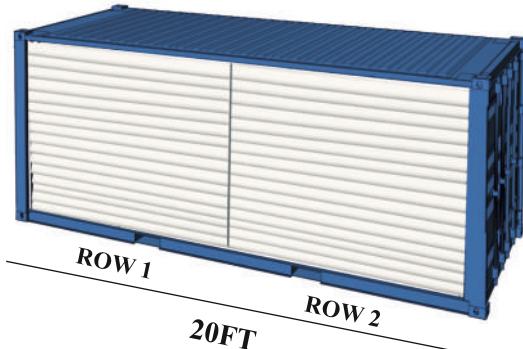
Mild Steel Lowering Jig



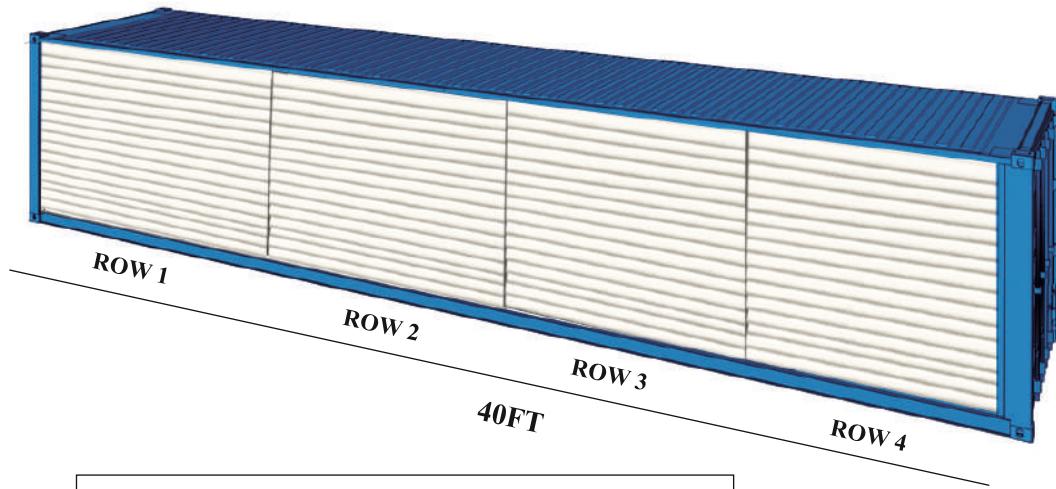
Specification

| | |
|------------|---------------------------|
| Metal | SS 202 |
| Diameter | 1" to 6" |
| Finishing | Colour Coated |
| Thickness | 6mm to 12mm |
| Connection | Square Thread / Hook Type |

Container Stuffing Details



- The length of pipe will be 2.9m for 20 feet Container
- In case of 6m pipes for 20 ft the pipe length will be 5.8m and number of Rows will be 1.



- The length of pipe will be 3m for 40 feet Container
- In case of 6m pipes for 40 ft the pipe length will be 6m and number of Rows will be 2.

CONTAINER STUFFING DETAILS

| Pipe Size | No of Pipes per bundle | No of Bundles per Row | Total No of Pipes per Row | No. of Rows without Capillary (20 ft) | No. of Rows with Capillary (20ft) | No. of Rows without Capillary (40ft) | No. of Rows with Capillary (40ft) |
|-----------|------------------------|-----------------------|---------------------------|---------------------------------------|-----------------------------------|--------------------------------------|-----------------------------------|
| 1" | 25 | 150 | 3750 | 2 | 1 | 4 | 3 |
| 1.25" | 25 | 90 | 2250 | 2 | 1 | 4 | 3 |
| 1.5" | 20 | 85 | 1700 | 2 | 1 | 4 | 3 |
| 2" | 10 | 100 | 1000 | 2 | 1 | 4 | 3 |
| 2.5" | 10 | 68 | 680 | 2 | 1 | 4 | 3 |
| 3" | 5 | 100 | 500 | 2 | 1 | 4 | 3 |
| 4" | 5 | 65 | 325 | 2 | 1 | 4 | 3 |
| 5" | 3 | 65 | 195 | 2 | 1 | 4 | 3 |
| 6" | 2 | 48 | 96 | 2 | 1 | 4 | 3 |

Note : In Case of Mix of different sizes the number of bundles and total number of pipes per row will vary according to the sizes.

Casing Pipes



Salient Features

- Easy to Handle
- Corrosion Free
- Ultimate Tensile Strength and Impact Strength
- Maximum Yield of Water
- Easy Joining & Installation
- Fire Proof
- Long Life

Specification

- Maximum ambient temperature 70°C
- Maximum installation depth 250m for CM series, 450m for CD series and 80m for CS series
- Installation: Vertical, Horizontal or Inclined

Applications

- Bore well casing, Irrigation, Domestic, Industrial mining, Chemical distribution
- A wise replacement for MS, ERW, GI, Asbestos and Cement and Stainless Steel Pipes
- uPVC is nearly inert towards corrosion, chemical reaction and so that, it is ideally used in salty, sandy and

Special Features

- Specification followed IS 12818:1992 equivalent to DIN 4925
- Surface finish of this pipe is extremely smooth which reduces the hydraulic friction losses
- Internal and external threaded & bell spigot ends and reliable jointing
- Ribbed screen are used especially when outer surface area of bore well casing pipe is to be increased. These ribs provide around 25% of additional surface area by virtue of its design. Besides that, it keeps gravel balls away from the pipe at a distance of about 2mm, which facilitates to clean slits due to vertical flow passage and allows more water to seep in, resulting in higher yield than other plain

Other Advantages

- Horizontal slots to get maximum water yield
- Special male female square threads to ensure better strength
- Very high impact strength to resist external pressure



Screen Open Area in Percentage (w) - Based on the width of slot

| RMS/PMS/RDS/PDS | | | | | | | | | | | |
|-------------------------------------|------|-------------------------|--------|------------------|------|------|------|-----|-----|------|------|
| Nominal Diameter | | Number of Slots N (Min) | ?a ± % | Slot width in mm | | | | | | | |
| mm | inch | | | 0.2 | 0.3 | 0.5 | 0.75 | 1.0 | 1.5 | 2.0 | 3.0 |
| Free passage area in Percentage (%) | | | | | | | | | | | |
| 50 | 2 | 3 | 108 | 3.7 | 5.2 | 6.0 | 9.1 | 9.4 | 9.7 | 12.1 | ---- |
| 80 | 3 | 3 | 168 | 3.7 | 5.2 | 6.0 | 9.1 | 9.4 | 9.7 | 12.1 | ---- |
| 100 | 4 | 5 | 216 | 3.7 | 5.2 | 6.0 | 9.1 | 9.4 | 9.7 | 12.1 | 14.0 |
| 115 | 4.5 | 5 | 240 | 3.7 | 5.2 | 6.0 | 9.1 | 9.4 | 9.7 | 12.1 | 14.0 |
| 125 | 5 | 5 | 240 | ---- | 4.7 | 5.6 | 8.2 | 8.5 | 8.8 | 11.0 | 13.5 |
| 150 | 6 | 5 | 285 | ---- | ---- | 5.6 | 8.2 | 8.5 | 8.8 | 11.0 | 13.5 |
| 175 | 7 | 6 | 340 | ---- | ---- | 5.6 | 8.3 | 8.5 | 8.8 | 11.0 | 13.5 |
| 200 | 8 | 6 | 390 | ---- | ---- | ---- | 8.3 | 8.5 | 8.8 | 11.0 | 13.5 |
| 250 | 10 | 6 | 450 | ---- | ---- | ---- | 7.6 | 7.9 | 8.1 | 10.2 | 12.5 |
| 300 | 12 | 6 | 530 | ---- | ---- | ---- | 7.6 | 7.9 | 8.1 | 10.2 | 12.5 |
| 350 | 14 | 8 | 720 | ---- | ---- | ---- | ---- | 7.9 | 8.1 | 10.2 | 12.5 |
| Slot pitch mm | | | 4.0 | 4.0 | 5.5 | 5.5 | 6.8 | 9.5 | 9.5 | 11.0 | |

Tolerance on Width of slot (w)

| Slot width (w) mm | Tolerance (mm) | |
|-------------------|----------------|-------|
| 0.2 | +0.06 | -0.00 |
| 0.3 | +0.06 | -0.00 |
| 0.5 | +0.10 | -0.00 |
| 0.75 | +0.20 | -0.00 |
| 1.0 | +0.20 | -0.00 |
| 1.5 | +0.20 | -0.00 |
| 2.0 | +0.20 | -0.00 |
| 3.0 | +0.30 | -0.00 |

Screen Permeability

| RMS/PMS/RDS/PDS | | | | | | | | | |
|-------------------------------------|------|------------------|------|------|------|------|------|------|------|
| Nominal Diameter | | Slot width in mm | | | | | | | |
| mm | inch | 0.2 | 0.3 | 0.5 | 0.75 | 1.0 | 1.5 | 2.0 | 3.0 |
| Free passage area in Percentage (%) | | | | | | | | | |
| 50 | 2.0 | 0.18 | 0.25 | 0.29 | 0.44 | 0.45 | 0.46 | 0.58 | 0.67 |
| 80 | 3.0 | 0.27 | 0.39 | 0.45 | 0.68 | 0.70 | 0.72 | 0.90 | 1.04 |
| 100 | 4.0 | 0.35 | 0.50 | 0.57 | 0.87 | 0.90 | 0.93 | 1.16 | 1.34 |
| 115 | 4.5 | 0.40 | 0.56 | 0.64 | 0.97 | 1.01 | 1.04 | 1.30 | 1.50 |
| 125 | 5.0 | ---- | 0.56 | 0.66 | 0.97 | 1.00 | 1.04 | 1.30 | 1.59 |
| 150 | 6.0 | ---- | ---- | 0.78 | 1.15 | 1.19 | 1.23 | 1.54 | 1.89 |
| 175 | 7.0 | ---- | ---- | 0.93 | 1.38 | 1.41 | 1.46 | 1.82 | 2.24 |
| 200 | 8.0 | ---- | ---- | ---- | 1.59 | 1.62 | 1.68 | 2.10 | 2.58 |
| 250 | 10.0 | ---- | ---- | ---- | 1.81 | 1.88 | 1.93 | 2.42 | 2.97 |
| 300 | 12.0 | ---- | ---- | ---- | 2.13 | 2.22 | 2.27 | 2.86 | 3.51 |

| CS Casing Pipe | | | | | | Technical Data | |
|------------------|-------|-----------------------------|-------|----------------|------|--|-------------------|
| Nominal Diameter | | Average Outer Diameter (mm) | | Wall Thickness | | Average Outer Dia. Over Connection (Max) | Length of Threads |
| mm | inch | min | max | min | max | | |
| 100* | 4.0" | 113.0 | 113.3 | 4.60 | 5.20 | 116.0 | 48 |
| 125* | 5.0" | 140.0 | 140.4 | 5.30 | 5.60 | 148.0 | 63 |
| 150 | 6.0" | 165.0 | 165.4 | 5.70 | 6.50 | 174.0 | 63 |
| 165* | 6.5" | 180.0 | 180.3 | 6.10 | 7.10 | 188.0 | 63 |
| 175 | 7.0" | 200.0 | 200.5 | 7.00 | 7.80 | 211.0 | 63 |
| 200 | 8.0" | 225.0 | 225.5 | 7.60 | 8.80 | 238.0 | 74 |
| 225* | 9.0" | 250.0 | 250.5 | 8.80 | 9.60 | 262.0 | 74 |
| 250 | 10.0" | 280.0 | 280.5 | 9.60 | 11.0 | 292.0 | 90 |
| 300 | 12.0" | 330.0 | 330.6 | 11.2 | 13.3 | 346.0 | 90 |
| 350 | 14.0" | 400.0 | 400.7 | 14.0 | 15.5 | 420.0 | 90 |

| CM Casing Pipe | | | | | | Technical Data | |
|----------------|-------|-------|-------|------|------|----------------|----|
| 40 | 1.5" | 48.0 | 48.2 | 3.5 | 4.0 | 52.0 | 25 |
| 50 | 2.0" | 60.0 | 60.2 | 4.0 | 4.6 | 65.0 | 30 |
| 80 | 3.0" | 88.0 | 88.3 | 4.0 | 4.6 | 94.0 | 40 |
| 100 | 4.0" | 113.0 | 113.3 | 5.0 | 5.7 | 120.0 | 48 |
| 115 | 4.5" | 125.0 | 125.3 | 5.0 | 5.7 | 132.0 | 48 |
| 125 | 5.0" | 140.0 | 140.4 | 6.5 | 7.3 | 150.0 | 63 |
| 150 | 6.0" | 165.0 | 165.4 | 7.5 | 8.5 | 178.0 | 63 |
| 165* | 6.5" | 180.0 | 180.4 | 8.0 | 8.5 | 196.7 | 63 |
| 175 | 7.0" | 200.0 | 200.5 | 8.8 | 9.8 | 215.0 | 63 |
| 200 | 8.0" | 225.0 | 225.5 | 10.0 | 11.2 | 243.0 | 74 |
| 225* | 9.0" | 250.0 | 250.5 | 12.0 | 12.5 | 270.0 | 74 |
| 250 | 10.0" | 280.0 | 280.5 | 12.5 | 14.0 | 298.0 | 90 |
| 300 | 12.0" | 330.0 | 330.6 | 14.5 | 16.2 | 352.0 | 90 |
| 350 | 14.0" | 400.0 | 400.7 | 17.5 | 19.5 | 428.0 | 90 |

| CD Casing Pipe | | | | | | Technical Data | |
|----------------|-------|-------|-------|------|------|----------------|----|
| 100 | 4.0" | 113.0 | 113.5 | 7.0 | 7.9 | 125.0 | 48 |
| 115 | 4.5" | 125.0 | 125.3 | 7.5 | 8.5 | 137.0 | 48 |
| 125* | 5.0" | 140.0 | 140.4 | 8.00 | 9.00 | 152.0 | 63 |
| 150 | 6.0" | 165.0 | 165.4 | 9.50 | 10.7 | 180.0 | 63 |
| 165* | 6.5" | 180.0 | 180.3 | 10.0 | 11.0 | 194.0 | 63 |
| 175 | 7.0" | 200.0 | 200.5 | 11.8 | 13.6 | 217.0 | 63 |
| 200 | 8.0" | 225.0 | 225.5 | 13.0 | 14.8 | 247.0 | 74 |
| 225* | 9.0" | 250.0 | 250.5 | 15.0 | 16.6 | 270.0 | 74 |
| 250 | 10.0" | 280.0 | 280.5 | 16.0 | 17.6 | 304.0 | 90 |
| 300 | 12.0" | 330.0 | 330.6 | 19.0 | 21.0 | 359.0 | 90 |
| 350 | 14.0" | 400.0 | 400.7 | 21.5 | 23.9 | 433.0 | 90 |

* Not Covered under ISI

All Dimensions in mm

| R - CS Casing Pipe | | | | | | Technical Data | |
|--------------------|-------|-----------------------------|-------|----------------|-------|--|-------------------|
| Nominal Diameter | | Average Outer Diameter (mm) | | Wall Thickness | | Average Outer Dia. Over Connection (Max) | Length of Threads |
| mm | inch | min | max | min | max | | |
| 125* | 5.0" | 144.0 | 144.4 | 5.30 | 5.60 | 152.0 | 63 |
| 150* | 6.0" | 169.0 | 169.4 | 5.70 | 6.50 | 178.0 | 63 |
| 175* | 7.0" | 204.0 | 204.5 | 7.00 | 7.80 | 215.0 | 63 |
| 200* | 8.0" | 229.0 | 229.5 | 7.60 | 8.80 | 242.0 | 74 |
| 250* | 10.0" | 284.0 | 284.5 | 9.60 | 11.0 | 296.0 | 90 |
| 300* | 12.0" | 334.0 | 334.6 | 11.20 | 13.30 | 350.0 | 90 |

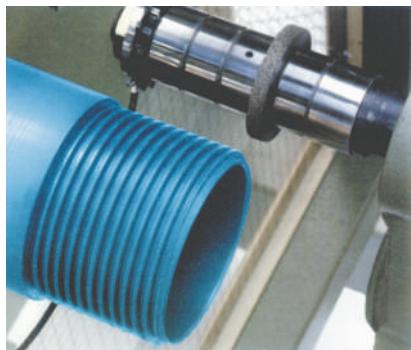
| R - CM Casing Pipe | | | | | | Technical Data | |
|--------------------|-------|-----------------------------|-------|----------------|------|--|-------------------|
| Nominal Diameter | | Average Outer Diameter (mm) | | Wall Thickness | | Average Outer Dia. Over Connection (Max) | Length of Threads |
| mm | inch | min | max | min | max | | |
| 40* | 1.5" | 52.0 | 52.2 | 3.5 | 4.0 | 56.0 | 25 |
| 50* | 2.0" | 64.0 | 64.2 | 4.0 | 4.6 | 69.0 | 30 |
| 80* | 3.0" | 92.0 | 92.3 | 4.0 | 4.6 | 98.0 | 40 |
| 100 | 4.0" | 117.0 | 117.3 | 5.0 | 5.7 | 124.0 | 48 |
| 125 | 5.0" | 144.0 | 144.4 | 6.5 | 7.3 | 154.0 | 63 |
| 150 | 6.0" | 169.0 | 169.4 | 7.5 | 8.5 | 182.0 | 63 |
| 175 | 7.0" | 204.0 | 204.5 | 8.8 | 9.8 | 219.0 | 63 |
| 200 | 8.0" | 229.0 | 229.5 | 10.0 | 11.2 | 247.0 | 74 |
| 250 | 10.0" | 284.0 | 284.5 | 12.5 | 14.0 | 302.0 | 90 |
| 300 | 12.0" | 334.0 | 334.6 | 14.5 | 16.2 | 356.0 | 90 |
| 350 | 14.0" | 404.0 | 404.7 | 17.5 | 19.5 | 432.0 | 90 |

| R - CD Casing Pipe | | | | | | Technical Data | |
|--------------------|-------|-----------------------------|-------|----------------|------|--|-------------------|
| Nominal Diameter | | Average Outer Diameter (mm) | | Wall Thickness | | Average Outer Dia. Over Connection (Max) | Length of Threads |
| mm | inch | min | max | min | max | | |
| 100 | 4.0" | 117.0 | 117.3 | 7.0 | 7.9 | 129.0 | 48 |
| 115 | 4.5" | 129.0 | 129.3 | 7.5 | 8.5 | 141.0 | 48 |
| 125 | 5.0" | 144.0 | 144.4 | 8.0 | 9.0 | 156.0 | 63 |
| 150 | 6.0" | 169.0 | 169.4 | 9.5 | 10.7 | 184.0 | 63 |
| 175 | 7.0" | 204.0 | 204.5 | 11.8 | 13.6 | 221.0 | 63 |
| 200 | 8.0" | 229.0 | 229.5 | 13.0 | 14.8 | 251.0 | 74 |
| 250 | 10.0" | 284.0 | 284.5 | 16.0 | 17.6 | 309.0 | 90 |
| 300 | 12.0" | 334.0 | 334.6 | 19.0 | 21.0 | 363.0 | 90 |
| 350 | 14.0" | 404.0 | 404.7 | 21.5 | 23.9 | 437.0 | 90 |

* Not Covered under ISI

All Dimensions in mm

Threading

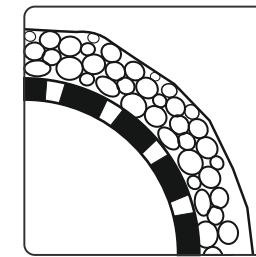
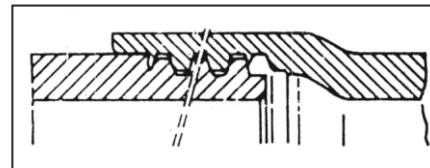


Tensile Strength of thread joints

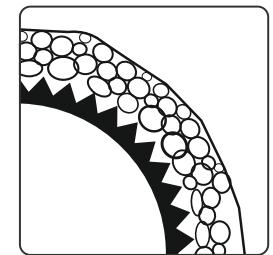
| ND (mm) | in | Trapezoidal |
|--------------|-----|-------------|
| | | kN* |
| 100 | 4 | 20 |
| 115 | 4.5 | 20 |
| 125 | 5 | 30 |
| 150 | 6 | 40 |
| 165 | 6.5 | 40 |
| 175 | 7 | 40 |
| 200 | 8 | 80 |
| 250 | 10 | 110 |
| 300 | 12 | 150 |

*1kN = 100 Kp

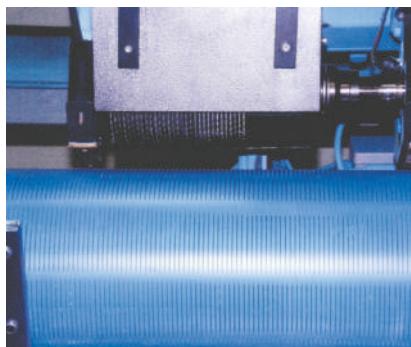
Thread Type: Metric Trapezoidal



The V-Channel formed by ribs, keeps the gravel pack 2 mm away from slots.▼



Slotting



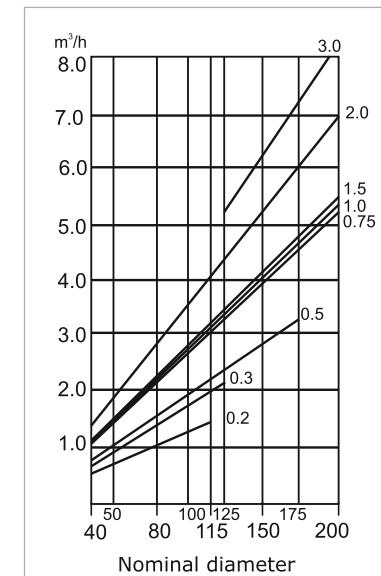
Standard Slot width range
(Showing average % open area)

| | |
|-----|--------|
| 3% | 0.20mm |
| 4% | 0.30mm |
| 5% | 0.40mm |
| 6% | 0.50mm |
| 9% | 0.75mm |
| 11% | 1.00mm |
| 13% | 1.25mm |
| 16% | 1.50mm |
| 20% | 2.00mm |
| 25% | 3.00mm |

Permeability of Screens

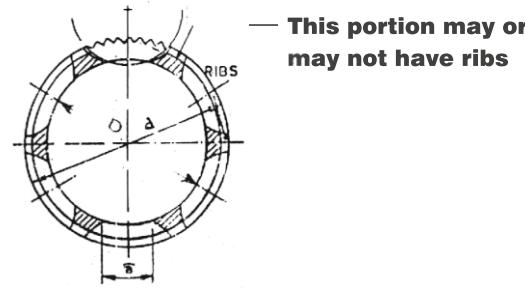
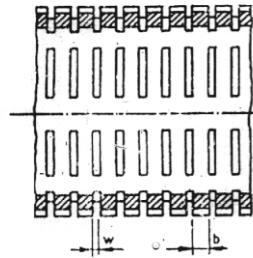
The permeability of the screen has to be higher than that of the sand or gravel layer directly next to the outer layer of the screen. ►

(for slot width of 0.2 mm - 3.0 mm)
Permeability per m of screen
 k (m^3/h) at $V_T = 3 \text{ cm/sec}$.

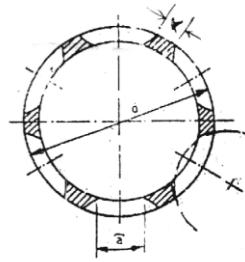
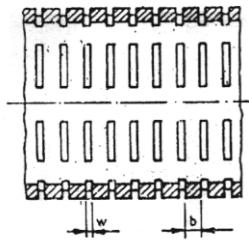


Slot Arrangements

Ribbed Screen Pipe



Plain Screen Pipe

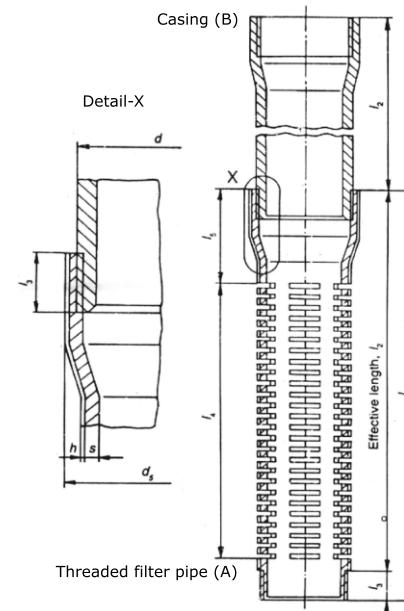


Example showing 6 slots around circumference of pipe

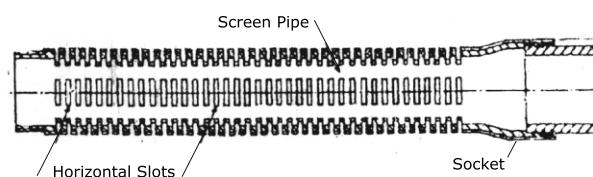
- A = Slot length
- W = Slot width
- b = Longitudinal pitch of slot
- V = Vertical pitch
- D = Inside diameter
- d = Out side diameter

Note: The number of rows of slots in the open area depends on the pipe diameter

Screen & Casing Assembly



- L1 = Overall Length ($L_2 + L_3$)
- L2 = Effective pipe length, after assembly
- L3 = Thread length
- D = Outside diameter
- DS = Outside socket diameter
- S = Wall thickness



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