

Produced in an ISO 9001 Company

ALGO  **PIPES**
CONNECTING TECHNOLOGIES



The Real Pumping Experience

www.algopumps.com



for Specific Types



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 30 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

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.



Mission, Vision & 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 & Integrity that lead to customers' satisfaction all time and ultimate success of the company and its stakeholders.



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 all time.





Column Pipes

Accessories

PUMP GUARD SET



ADAPTOR SET



LOWRING ZIG



TIGHTENING SPANNER



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.

Unbreakable



Up to 6" (150 mm)

Specification

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

Applications

- Water rising 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 chemically aggressive water

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 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 & reduces 10% to 20% power consumption
- Ultimate locking system ensures a trouble free and a longer life for the Bore Well and the Pump

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	3.3	3.3	3.5	4.8	---	---
32	1.25"	42.16	55.10	4.1	4.1	4.2	5.0	---	---
40	1.50"	48.26	62.50	---	4.2	4.3	5.2	6.0	---
50	2.00"	60.32	79.00	---	4.8	4.8	6.0	7.3	8.0
53	2.25"	63.00	90.00	---	---	---	6.5	7.8	---
65	2.50"	73.02	91.80	---	---	5.3	6.6	8.7	10.0
80	3.00"	88.90	110.0	---	---	6.0	7.4	9.9	10.5
90	3.50"	100.00	136.0	---	---	6.0	7.4	9.9	13.5
100	4.00"	114.30	136.5	---	---	6.5	8.5	12.0	12.5
125	5.00"	140.00	165.0	---	---	7.7	10.2	15.2	16.5
150	6.00"	165.00	205.0	---	---	---	---	16.5	---

Recommended Installation Depth in mtrs / feet

Type of Pipes	Recommended Installation Depth	
	mtrs	feet
Primo	40	130
Nano	50	165
Medium	60	197
Standard	150	492
Heavy	250	820
Super Heavy	300	985

Packing Details

(Nos. of Pipes/Bundle)

mm	3 Meter	5.8/6 Meter
1"	25	---
1.25"	25	---
1.5"	20	---
2"	15	---
2.25"	10	5
2.5"	10	5
3"	5	3
3.5"	3	---
4"	5	3
5"	3	2
6"	3	2

Color Coding of Pipes

Type of Pipes	Identity Printing Color
Primo	Orange
Nano	Peacock Blue
Medium	Blue
Standard	Red
Heavy	Green
Super Heavy	Black

Pressure Ratings for Column Pipes (Kg/cm²)

Size		Primo	Nano	Medium	Standard	Heavy	Super Heavy
mm	inch						
25	1.00"	12.5	15	21	26	---	---
32	1.25"	12.5	15	21	26	35	---
40	1.50"	---	15	21	26	35	---
50	2.00"	---	13	15	20	27	35
53	2.25"	---	---	---	18	26	---
65	2.50"	---	11	13	18	26	35
80	3.00"	---	---	11	18	26	35
90	3.50"	---	---	---	35	---	---
100	4.00"	---	---	10	16	26	35
125	5.00"	---	---	10	16	26	35
150	6.00"	---	---	---	---	26	---



Weight, Load & Pressure Carring Capacity

Type & Size OD - Outer Dia. NB - Nominal Bore	Net Weight	Ultimate Breaking Load	Max Pulling Load with Chain Pulley or Crane	Max Allowable Hydrostatic Pressure	Max Total Shut Off Head of The Pump	Recommended Installation Depth of Pipes	Recommended Installation Depth of Pipes	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	0.9	850	500	12.5	125	25	80	9	15	19.7	43.70
Nano	1.05	1000	580	15	150	30	99	10	19	19.7	48.70
Medium	1.31	1500	800	21	210	65	214.5	26	41	23.2	90.20
Standard	1.63	2200	1250	26	300	150	495	75	85	20.8	180.80
OD : 42mm (1.25") NB : 32 mm											
Primo	1.48	1600	800	12.5	125	25	80	11	23	17.8	51.80
Nano	1.58	1720	900	15	150	30	99	17	28	17.8	62.80
Medium	1.94	1800	1150	21	210	65	214.5	39	61	21.8	121.80
Standard	2.14	2650	1400	26	250	150	495	99	135	22.6	256.60
OD : 48mm (1.5") NB : 40 mm											
Nano	2.0	2000	1000	15	150	30	99	19	33	24.1	76.10
Medium	2.3	2300	1200	21	210	65	214.5	41	72	24.5	137.50
Standard	2.62	3200	1500	26	260	120	396	97	127	35.9	259.90
Heavy	3.47	4200	2000	35	350	160	528	174	162	41.6	377.60
OD : 60mm (2") NB : 50 mm											
Nano	2.3	2730	1750	13	90	30	99	21	68	51.0	140.00
Medium	2.7	3040	2000	15	130	65	214.5	54	148	60.0	262.00
Standard	3.9	5098	2700	21	200	120	396	154	255	106.0	515.00
Heavy	4.6	5682	3200	27	270	180	594	273	368	126.0	767.00
Super Heavy	5.2	6200	3600	35	350	225	735	380	440	141.0	961.00
OD : 75mm (2.5") NB : 65 mm											
Medium	3.6	4496	2800	13	100	65	214.5	88	181	80.0	349.00
Standard	4.75	5934	3600	18	160	120	396	188	321	122.5	631.50
Heavy	6.12	7432	4000	26	260	180	594	364	448	176.0	988.00
Super Heavy	7.45	9194	4250	35	350	200	660	475	475	203.0	1153.00

Weight, Load & Pressure Carring 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 (ft.)	Recommended Installation Depth of Pipes (mtr.)	Recommended Installation Depth of Pipes (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 : 88mm (3") NB : 80 mm											
Medium	4.85	5934	4000	11	110	65	214.5	94	325	72.0	491.00
Standard	6.60	9112	5010	18	170	120	396	234	578	294.0	1106.00
Heavy	8.70	10000	6000	26	200	180	594	475	808	408.5	1691.50
Super Heavy	9.70	12000	6500	35	350	225	742.5	720	993	418.0	2131.00
OD : 113mm (4") NB : 100 mm											
Medium	7.6	11402	4500	10	100	65	214.5	179	428	181.0	728.00
Standard	9.8	12150	7250	16	150	120	396	343	759	326.0	1428.00
Heavy	14.45	15980	12000	26	200	180	594	790	1057	441.0	2288.00
Super Heavy	16.10	17536	13100	35	350	225	742.5	1199	1306	455.0	2960.00
OD : 140mm (5") NB : 125 mm											
Medium	13.25	12000	7540	10	100	65	214.5	272	526	176.0	974.00
Standard	16.15	16000	10440	16	160	120	396	558	933	377.0	1868.00
Heavy	18.90	17058	16240	26	200	180	594	1123	1282	465.0	2870.00
Super Heavy	24.50	30000	18000	35	350	225	742.5	1827	1565	478.0	3870.00
OD : 165mm (6") NB : 150 mm											
Heavy		40000	23500	26	260	180	594	1773	2224	1000.0	4997.00

ACCESSORIES



BOTTOM ADAPTOR

Materials of Construction

S.S. 304

Cast Iron



TOP ADAPTOR

Materials of Construction

S.S. 304

Carbon Steel

Casing Pipes

Accessories

REDUCER



LIFTING CAP



CENTER GUIDE



BOTTOM & TOP CAP



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 chemically aggressive water

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 screen pipes from the same bore

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)	$\Sigma a \pm 5\%$	Slot width in mm							
				0.2	0.3	0.5	0.75	1.0	1.5	2.0	3.0
mm	inch			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							
		0.2	0.3	0.5	0.75	1.0	1.5	2.0	3.0
mm	inch	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"	400.7	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

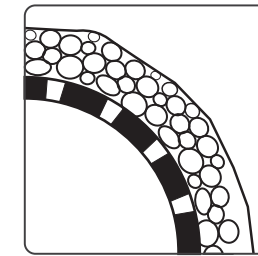
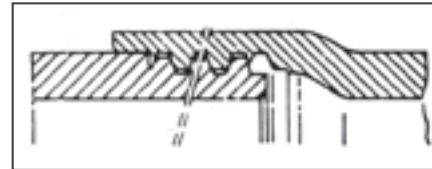


Tensile Strength of thread joints

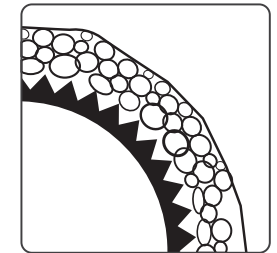
ND		Trapezoidal
(mm)	(in)	kN*
100	4	20
115	4.5	20
125	5	30
150	6	40
165	6.5	40
175	7	40
200	8	80
250	10	110
300	12	150

*1kN = 100 Kp

Thread Type: Metric Trapezoidal

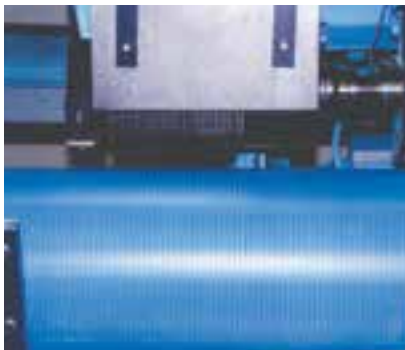


The V-Channel formed by ribs, keeps the gravel pack 2 mm away from slots. ▼



▲ Over half the slots get clogged by the gravel pack.

Slotting



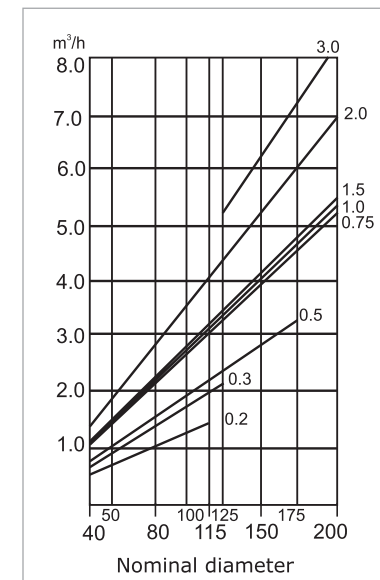
Standard Slot width range
(Showing average % open area)

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

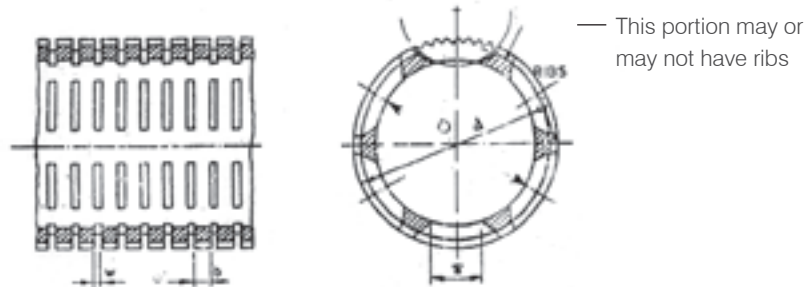
The permeability of the screen has to be higher than that of the sand or gravel layer directly next to the outer layer of the screen. ►

(for slot width of 0.2 mm - 3.0 mm)
Permeability per m of screen
 k (m³/h) at $V_T = 3$ cm/sec.

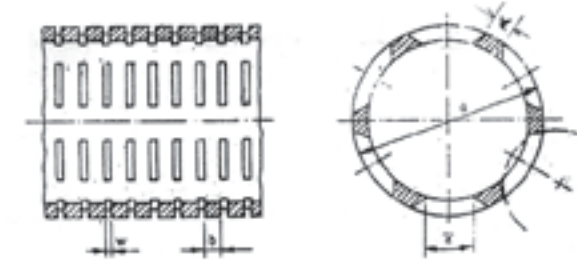


Slot Arrangements

Ribbed Screen Pipe



Plain Screen Pipe

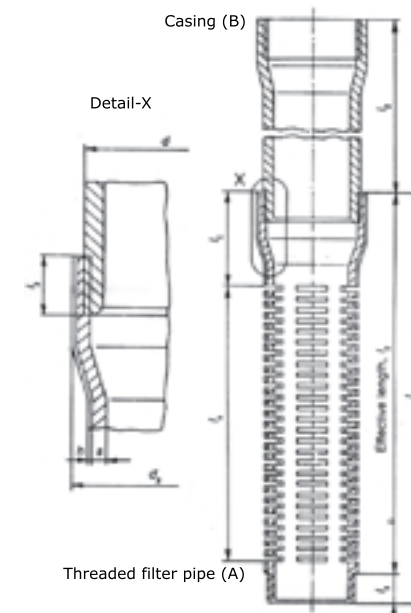


Example showing 6 slots around circumference of pipe

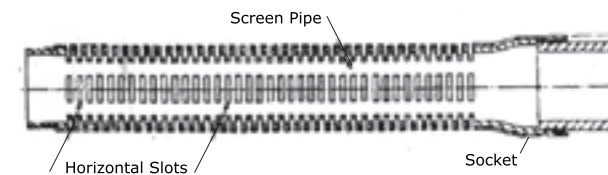
- A = Slot length
- W = Slot width
- b = Longitudinal pitch of slot
- V = Vertical pitch
- D = Inside diameter
- d = Out side diameter

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

Screen & Casing Assembly



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



High Pressure uPVC Plumbing Systems

Accessories

TEE



F.T.A.



UNION



ELBOW 90



COUPLER



ELBOW
BRASS THREADED



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

- Properties remain unchanged up to temperature 60°C continuous and 90°C for short time
- Size 15mm (0.5") to 100mm (4") (Available in SCH - 40, SCH - 80 & SCH - 120)
- Standards & Specification followed:
ASTM - D - 1784 - Standard specification for rigid PVC compounds
ASTM - D - 1785 - Unplasticized - PVC Pipe - SCH - 80 & SCH - 120
ASTM - D - 2467 - Unplasticized - PVC Pipe fitting SCH - 80

Special Features

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

Other Advantages

- Internal surface finish of these pipes are smooth which helps to reduce friction losses
- Safe for pure & hygienic water supply
- Special colored line marking to identify right product
- Special BSP threads to prevent leakage with GI fittings
- UV resistance for use in sunlight

Applications

- Building Services: Bathrooms, Toilets, Water heaters, Kitchen sinks, Washbasin & other water utilities
- Portable Water Supply: Commercial Complexes, Individual Houses, Apartments, Offices, Hotels, Hospitals, Bus stations, Railway Stations and Airports
- Industrial Application: Distribution of Milk, Chemicals, Gas in Dairy Plants, Industries, Agriculture, Irrigation & Water supply Projects, etc

Dimensions											
Nominal Pipe Size		Outer Diameter	Schedule - 40			Schedule - 80			Schedule - 120		
			Wall Thickness	Working Pressure		Wall Thickness	Working Pressure		Wall Thickness	Working Pressure	
mm	inch	mm	mm	Mpa	psi	mm	Mpa	psi	mm	Mpa	psi
15	1/2"	21.34±0.10	2.77±0.51	2.07	300	3.73±0.51	2.90	420	4.32±0.51	3.52	510
20	3/4"	26.67±0.10	2.87±0.51	1.65	240	3.91±0.51	2.34	340	4.32±0.51	2.69	390
25	1"	33.40±0.13	3.38±0.51	1.55	225	4.55±0.53	2.21	320	5.08±0.61	2.48	360
32	1 1/4"	42.16±0.13	3.56±0.51	1.27	185	4.85±0.58	1.79	260	5.46±0.66	2.07	300
40	1 1/2"	48.26±0.15	3.68±0.51	1.14	165	5.08±0.61	1.65	240	5.72±0.68	1.86	270
50	2"	60.32±0.15	3.91±0.51	0.96	140	5.54±0.66	1.38	200	6.35±0.76	1.65	240
65	2 1/2"	73.02±0.18	5.16±0.65	1.03	150	7.01±0.84	1.45	210	7.62±0.91	1.59	230
80	3"	88.90±0.20	5.49±0.66	0.89	130	7.62±0.91	1.31	190	8.89±1.07	1.52	220
100	4"	114.3±0.23	6.02±0.71	0.76	110	8.56±1.02	1.10	160	11.1±1.32	1.52	220

Mpa = Mega Pascal | 1MPa = 10 Kg/cm² | 1Kg/cm² = 14.20 psi

Packing Details (Nos. of Pipes/Bundle)		
mm	3 Meter	6 Meter
0.5"	50	25
0.75"	25	25
1"	25	25
1.25"	25	15
1.5"	20	15
2"	10	10
2.5"	10	5
3"	5	3
4"	5	3

Water Supply & Irrigation Pipes / SWR Pipes



Salient Features

- Resistant to Corrosion
- Non Toxic
- Weather Resistance
- Easy for Installation
- Fire Proof
- Good Thermal and Electrical Insulation
- Termite Proof
- Inert to Chemicals

Specification

- Maximum ambient temperature 76°C
- Size 15mm (0.5") to 315mm (12")
- (Available in Class 1 to Class 6)

Application

- Water supply for agriculture and irrigation systems
- Power and telecommunication cable ducting
- Rural and urban water supplies, gas and oil supplies
- Sewerage and drainage systems
- Building installation and air conditioning ducting

Special Features

- Internal surface is very smooth which reduces friction loss
- Very high pressure resistant & water resistance
- Fire proof, termite proof, maintenance free & very good thermal & electrical insulation
- Specifications followed: IS 4985 : 2000

Other Advantages

- UV resistance for use in sunlight
- Elastomeric sealing ring pipes to prevent leakage
- Very high pressure resistant capacity

Technical Data							IS:4985-2000 (All Dimensions in mm)		
Pipe Size (Inch)	Nominal Outer Diameter (Nominal Size)	Average Outer Diameter	Outer Diameter at Any Point	Class-1 0.25 Mpa (2.5kg/cm ²)	Class-2 0.40 Mpa (4kg/cm ²)	Class-3 0.60 Mpa (6kg/cm ²)	Class-4 0.80 Mpa (8kg/cm ²)	Class-5 1.00 Mpa (10kg/cm ²)	Class-6 1.25 Mpa (12.5kg/cm ²)
		Min - Max	Min - Max	Min - Max	Min - Max	Min - Max	Min - Max	Min - Max	Min - Max
0.5"	20	20.0 - 20.3	19.5 - 20.5					1.1 - 1.5	1.4 - 1.8
0.75"	25	25.0 - 25.3	24.5 - 25.5				1.2 - 1.6	1.4 - 1.8	1.7 - 2.1
1.0"	32	32.0 - 32.3	31.5 - 32.5				1.5 - 1.9	1.8 - 2.2	2.2 - 2.7
1.25"	40	40.0 - 40.3	39.5 - 40.5			1.4 - 1.8	1.8 - 2.2	2.2 - 2.7	2.8 - 3.3
1.5"	50	50.0 - 50.3	49.4 - 50.6			1.7 - 2.1	2.3 - 2.8	2.8 - 3.3	3.4 - 4.0
2.0"	63	63.0 - 63.3	62.2 - 63.8		1.5 - 1.9	2.2 - 2.7	2.8 - 3.3	3.5 - 4.1	4.3 - 5.0
2.5"	75	75.0 - 75.3	74.1 - 75.9		1.8 - 2.2	2.6 - 3.1	3.4 - 4.0	4.2 - 4.9	5.1 - 5.9
3.0"	90	90.0 - 90.3	88.9 - 91.1	1.3 - 1.7	2.1 - 2.6	3.1 - 3.7	4.0 - 4.6	5.0 - 5.7	6.1 - 7.1
4.0"	110	110.0 - 110.4	108.6 - 111.4	1.6 - 2.0	2.5 - 3.0	3.7 - 4.3	4.9 - 5.6	6.1 - 7.1	7.5 - 8.7
4.5"	125	125.0 - 125.4	123.5 - 126.5	1.8 - 2.2	2.9 - 3.4	4.3 - 5.0	5.6 - 6.4	6.9 - 8.0	8.5 - 9.8
5.0"	140	140.0 - 140.5	138.3 - 141.7	2.0 - 2.4	3.2 - 3.8	4.8 - 5.5	6.3 - 7.3	7.7 - 8.9	9.5 - 11.0
6.0"	160	160.0 - 160.5	158.0 - 162.0	2.3 - 2.8	3.7 - 4.3	5.4 - 6.2	7.2 - 8.3	8.8 - 10.2	10.9 - 12.6
7.0"	180	180.0 - 180.6	177.8 - 182.2	2.6 - 3.1	4.2 - 4.9	6.1 - 7.1	8.0 - 9.2	9.9 - 11.4	12.2 - 14.1
8.0"	200	200.0 - 200.6	197.6 - 202.4	2.9 - 3.4	4.6 - 5.3	6.8 - 7.9	8.9 - 10.3	11.0 - 12.7	13.6 - 15.7
9.0"	225	225.0 - 225.7	222.3 - 227.7	3.3 - 3.9	5.2 - 6.0	7.6 - 8.8	10.0 - 11.5	12.4 - 14.3	15.3 - 17.6
10.0"	250	250.0 - 250.8	247.0 - 253.0	3.6 - 4.2	5.7 - 6.5	8.5 - 9.8	11.2 - 12.9	13.8 - 15.9	17.0 - 19.6
11.0"	280	280.0 - 280.9	276.6 - 283.4	4.1 - 4.8	6.4 - 7.4	9.5 - 11.0	12.5 - 14.4	15.4 - 17.8	19.0 - 21.9
12.0"	315	315.0 - 316.0	311.2 - 318.8	4.6 - 5.3	7.2 - 8.3	10.7 - 12.4	14.0 - 16.1	17.3 - 19.9	21.4 - 24.7
14.0"	355	355.0 - 356.1	350.7 - 359.3	5.1 - 5.9	8.1 - 9.4	12.0 - 13.8	15.8 - 18.2	19.6 - 22.6	24.1 - 27.8
16.0"	400	400.0 - 401.2	395.2 - 404.8	5.8 - 6.7	9.1 - 10.5	13.5 - 15.6	17.8 - 20.5	22.0 - 25.3	27.2 - 31.3

Technical Data						IS:13592:2013	
Nominal Diameter		Type	Effective Length (mtr)	OD (mm)		Wall Thickness	
mm	inch			min	max	min	max
75	2.5"	A	3	75.0	75.3	1.80	2.20
75	2.5"	B	3	75.0	75.3	3.20	3.80
90	3"	A	3	90.0	90.3	1.90	2.30
90	3"	B	3	90.0	90.3	3.20	3.80
110	4"	A	3	110.0	110.4	2.20	2.70
110	4"	B	3	110.0	110.4	3.20	3.80

In view of continuous improvements in our design and process, the information, Dimensions and specifications given in this catalogue are subject to change without notice.



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