AYKO
The Power of Trust

AN ISO 9001 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.

Up to 6”(150mm)

Speci?cation

- 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, Gl, 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 ?nish of this pipe is extremely smooth which reduces the hydraulic friction losses & helps improve the ?ow
- 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 ?tted 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	-	-	-	-	16.50	-

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

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

Color Coding of Pipes

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

Weight, Load & Pressure Carring Capacity

Type & Size OD - Outter 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 Carring Capacity

Type & Size OD - Outter 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*

Note :
Top Adaptors - Double Clamp
* Available with both BSP & NPT Connections

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*

Accessories for uPVC Column Pipes

Stainless Steel Top & Bottom Adaptor
Suitable for Medium, Standard & Heavy Column Pipes

Top Bottom

Specification

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

Note : Top Adaptors - Double Clamp

Stainless Steel 304 (SS) S.H Top Adaptor
Suitable for Super Heavy Column Pipes

Top

Specification

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

Note : Top Adaptors - Double Clamp

Cast Iron (CI) Reducer & Expander - Bottom

Reducer Expander

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*

Note : * Available with both BSP & NPT Connections

Stainless Steel Reducer & Expander - Bottom

Reducer Expander

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*

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

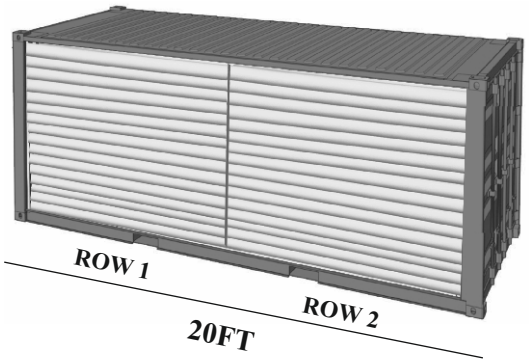
Metal	SS 202
Diameter	17", 20", 22", 24", 26" & 27"
Finishing	Glossy / Matte Steel Finish
Thickness	12mm
Connection	Stud Clamp Type

Mild Steel Lowering Jig

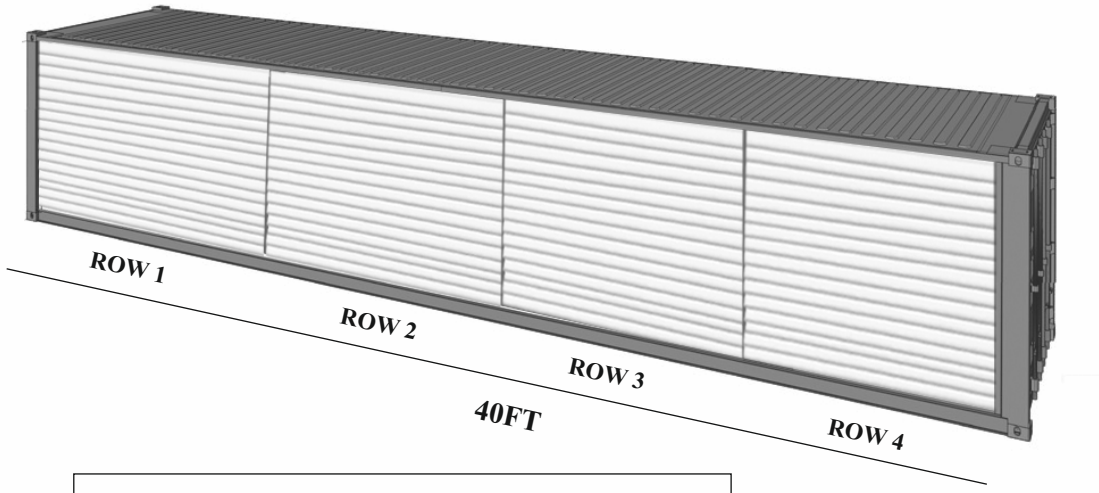
Specification

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.

ONTAINER STUFFING DETAIL

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 bundels and total number of pipes per row will vary according to the sizes.

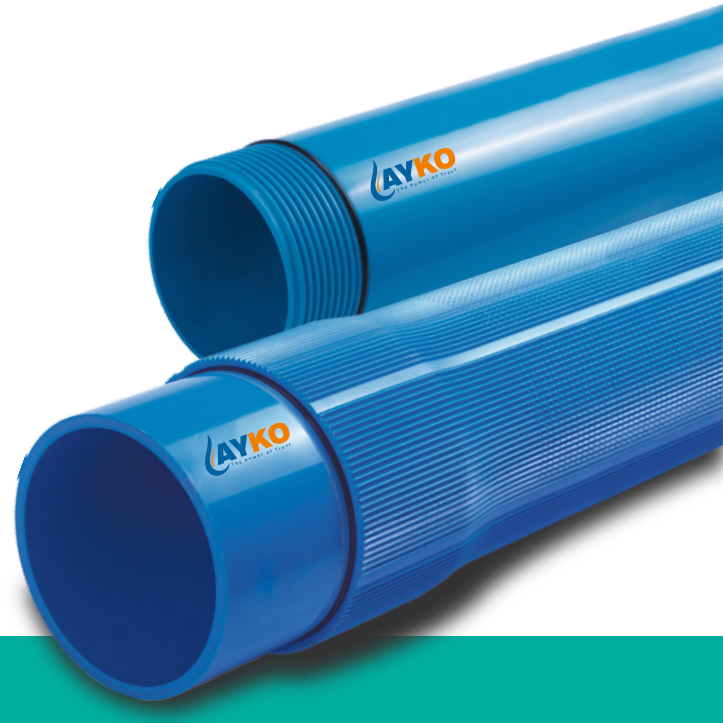
Casing Pipes

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

Speci?cation

- 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, Gl, 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 ?nish 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 ?ow 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)	?a ± 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

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

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

CS Casing Pipe

Nominal Diameter		Average Outer Diameter (mm)		Wall Thickness		Technical Data	
						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

Nominal Diameter		Average Outer Diameter (mm)		Wall Thickness		Technical Data	
mm	inch	min	max	min	max	Average Outer Dia. Over Connection (Max)	Length of Threads
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

Nominal Diameter		Average Outer Diameter (mm)		Wall Thickness		Technical Data	
mm	inch	min	max	min	max	Average Outer Dia. Over Connection (Max)	Length of Threads
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

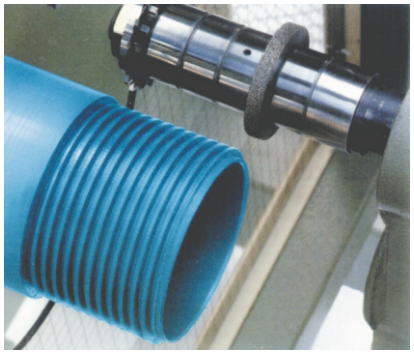
R - CD Casing Pipe

Nominal Diameter		Average Outer Diameter (mm)		Wall Thickness		Technical Data	
mm	inch	min	max	min	max	Average Outer Dia. Over Connection (Max)	Length of Threads
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

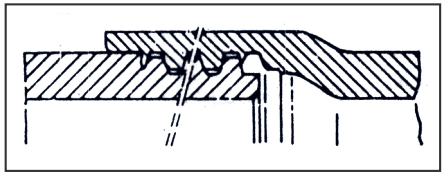


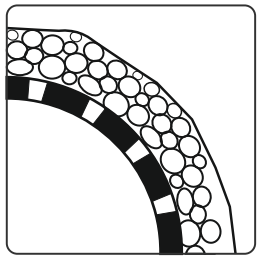
Tensile Strength of thread joints

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

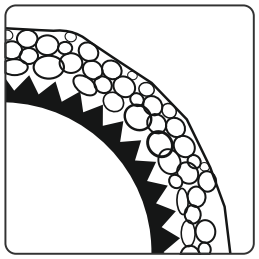
Thread Type: Metric Trapezoidal



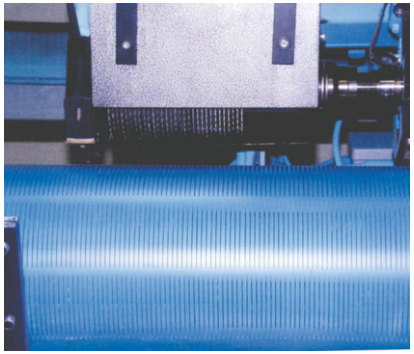


Over half the slots get clogged by the gravel pack.

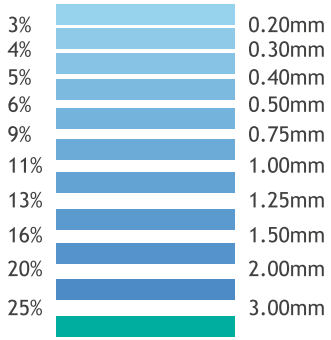
The V-Channel formed by ribs, keeps the gravel pack 2 mm away from slots.



Slotting



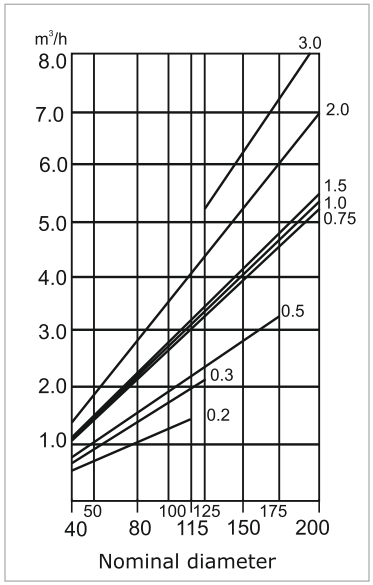
Standard Slot width range
(Showing average % open area)



Permeability of Screens

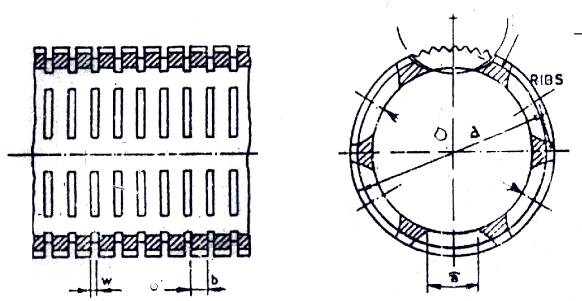
The permeability of the screen has to be higher than that of the sand or gravel layer directly next to the outer layer of the screen.

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



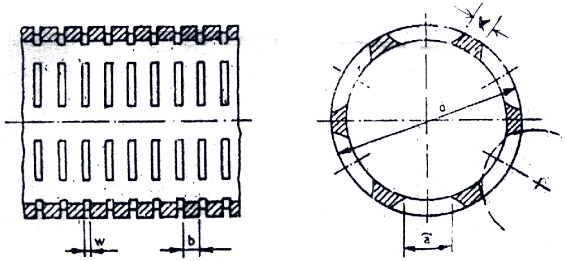
Slot Arrangements

Ribbed Screen Pipe



— **This portion may or may not have ribs**

Plain Screen Pipe

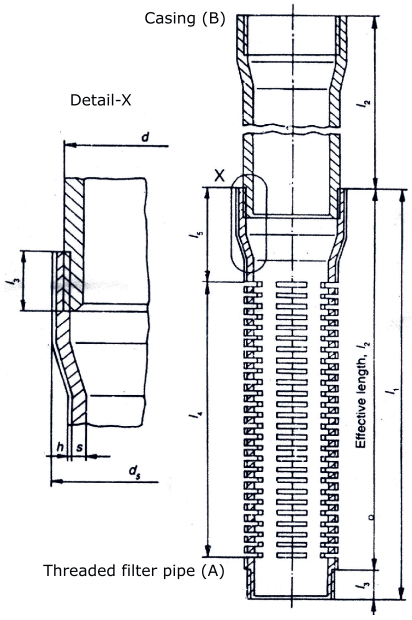


Example showing 6 slots around circumference of pipe

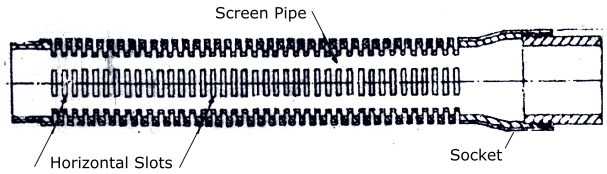
A = Slot length
W = Slot width
b = Longitudinal pitch of slot
V = Vertical pitch
D = Inside diameter
d = Out side diameter

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



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