

# venAir

## FLEXIBLE SOLUTIONS



## VENA® TECHNIPUR

### Polyurethane hoses for the transport of abrasive material

#### STRUCTURE:

##### VENA TECHNIPUR

Polyurethane sheet with copper steel wire.

Wall thickness: 0,5mm

##### VENA TECHNIPUR-S

Polyurethane sheet with steel wire covered by white PVC.

Wall thickness: 0,8mm

Higher pressure resistance than the type Technipur.

##### VENA TECHNIPUR-VAC

Polyurethane sheet with steel wire covered by white PVC.

Wall thickness: 1,2mm

High vacuum resistance.

#### CHARACTERISTICS:

Made by 100% polyurethane, these hoses have gas oil, grease and aliphatic hydrocarbon (petrol) stability. However, aromatic hydrocarbons and chlorine can on occasions produce a slight swelling. The hose is nonsoluble to alcohol, water and ether but it is less resistant to hot water or steam.

#### LENGTH OF MANUFACTURE:

5 and 10m, with lengths of up to 25m to order.

#### PROPERTIES:

- Polyurethane is TEN TIMES more resistant to abrasion than the PVC.
- Hydrolysis and industrial gas stability.
- Does not contain Cadmium.
- Highly resistant to decay.
- High flexibility.
- Temperature range: From -18°C to +80°C (for short spaces of time, up to +100°C).
- Working pressure: See the tables.

#### FIELDS OF APPLICATION:

- Suitable for suction of any type of abrasive particles, such as:
- Sawdust, chips, granular products, salt, sugar and any type of powder, including cement.
  - Ideal for using in all types of wood-working machinery.

#### OTHER POSSIBILITIES:

- Antistatic: With copper wire fitted parallel to the wire spiral, to improve the static electricity discharge.
- Food grade: With special food quality polyurethane.

## TECHNICAL DATA:

### TECHNIPUR (wall thickness 0,5 mm)

Ø inner (mm)	Max working pressure (bar)	Vaccum resistance (bar)	Bending radius (mm)	Weight ±5% (g/m)
40	--	--	--	--
45	--	--	--	--
50	0,56	0,22	60	205
55	0,49	0,20	65	243
60	0,43	0,18	70	280
65	0,38	0,16	75	317
70	0,34	0,15	80	354
75	0,31	0,14	85	391
80	0,28	0,12	90	428
90	0,23	0,11	100	503
100	0,20	0,09	110	577
102	0,19	0,09	112	592
110	0,17	0,08	120	651
120	0,15	0,08	130	725
127	0,14	0,07	137	777
130	0,14	0,07	140	800
140	0,12	0,06	150	874
150	0,11	0,06	160	948
160	0,10	0,05	170	1.022
170	0,09	0,05	180	1.097
180	0,08	0,05	190	1.171
200	0,07	0,04	210	1.320
204	0,07	0,04	214	1.349
225	0,06	0,03	235	1.505
254	0,05	0,03	264	1.721
280	0,04	0,03	290	1.914
300	0,04	0,02	310	2.062
325	0,04	0,02	335	2.248
350	0,03	0,02	360	2.434
400	0,03	0,02	410	2.805
450	0,02	0,01	460	3.176
500	0,02	0,01	510	3.548

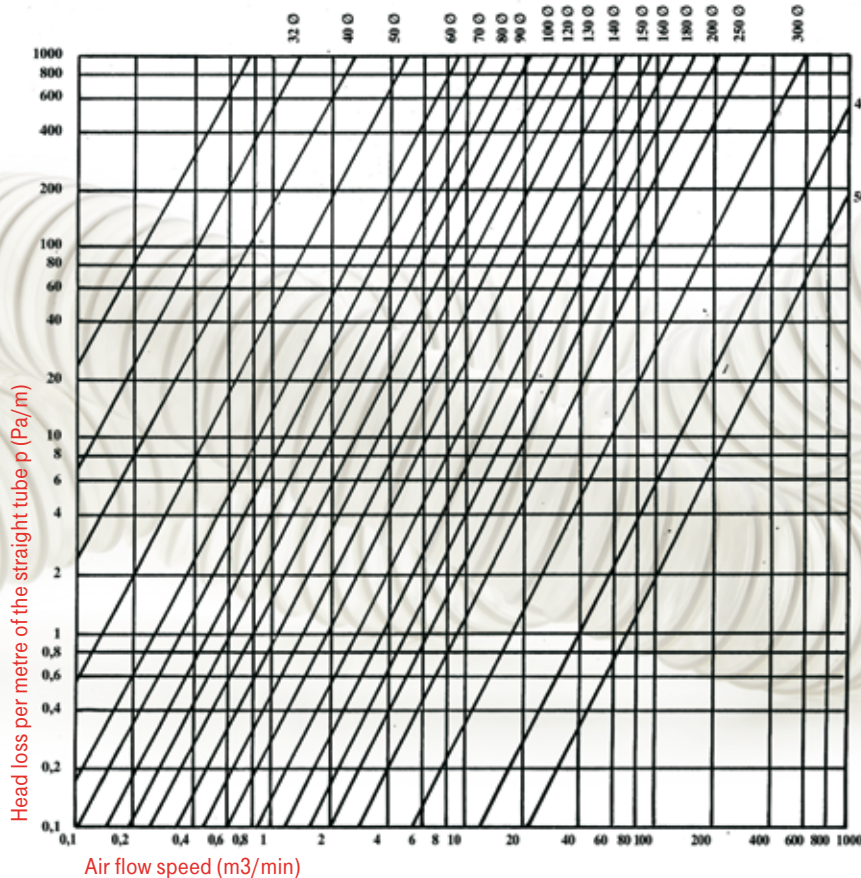
### TECHNIPUR-S (wall thickness 0,8 mm)

Ø inner (mm)	Max working pressure (bar)	Vaccum resistance (bar)	Bending radius (mm)	Weight ±5% (g/m)
40	1,48	0,44	60	350
45	1,32	0,39	66	404
50	1,18	0,35	73	457
55	1,07	0,32	79	511
60	0,98	0,29	85	564
65	0,90	0,27	91	618
70	0,84	0,25	98	671
75	0,78	0,23	104	725
80	0,73	0,22	110	779
90	0,65	0,19	123	886
100	0,58	0,17	135	993
102	0,57	0,17	138	1.014
110	0,53	0,16	148	1.100
120	0,48	0,14	160	1.207
127	0,46	0,13	169	1.282
130	0,45	0,13	173	1.314
140	0,41	0,12	185	1.421
150	0,39	0,11	198	1.529
160	0,36	0,11	210	1.636
170	0,34	0,10	223	1.743
180	0,32	0,09	235	1.850
200	0,29	0,08	260	2.064
204	0,28	0,08	265	2.107
225	0,25	0,07	291	2.332
255	0,22	0,07	329	2.654
280	0,20	0,06	360	2.922
300	0,19	0,06	385	3.136
325	0,18	0,05	416	3.404
350	0,16	0,05	448	3.672
400	0,14	0,04	510	4.207
450	0,13	0,04	573	4.743
500	0,11	0,03	635	5.279

### TECHNIPUR-VAC (wall thickness 1,2 mm)

Ø inner (mm)	Max working pressure (bar)	Vaccum resistance (bar)	Bending radius (mm)	Weight ±5% (g/m)
40	2,60	0,76	70	714
45	2,30	0,68	78	767
50	2,07	0,61	85	820
55	1,87	0,55	93	874
60	1,71	0,51	100	927
65	1,58	0,47	108	980
70	1,46	0,43	115	1.033
75	1,36	0,40	123	1.086
80	1,28	0,38	130	1.139
90	1,13	0,34	145	1.246
100	1,01	0,30	160	1.352
102	0,99	0,30	163	1.373
110	0,92	0,27	175	1.458
120	0,84	0,25	190	1.565
127	0,79	0,24	201	1.639
130	0,77	0,23	205	1.671
140	0,72	0,22	220	1.777
150	0,67	0,20	235	1.883
160	0,63	0,19	250	1.990
170	0,59	0,18	265	2.096
180	0,55	0,17	280	2.202
200	0,50	0,15	310	2.415
204	0,49	0,15	316	2.457
225	0,44	0,13	348	2.681
255	0,39	0,12	393	3.000
280	0,35	0,11	430	3.265
300	0,33	0,10	460	3.478
325	0,30	0,09	498	3.744
350	0,28	0,09	535	4.010
400	0,24	0,07	610	4.541
450	0,22	0,07	685	5.073
500	0,19	0,06	760	5.604

## HEAD LOSS DIAGRAM FOR VENA T.PUR, T.PUR-S AND T.PUR-VAC



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