

ABOUT

TEFLON HOSES

Singaflex Teflon Hoses are made with Polytetrafluoroethylene (PTFE) and provides outstanding resistance to a wide variety of materials and temperature. A key trait of our PTFE hoses are its hydrophobic properties, allowing it to not retain odour or colour when it conveys sensitive mediums (i.e. food products).

Being exceptionally stable in its composition, Singaflex Teflon Hoses provides reliability coupled with long operating and shelf life.

Operating Temperature
-70°C to 260°C



Customisation

01 | Tube Type

- Convuluted
- Smooth Bore

03 | Braid Material / Cover

- SS304
- SS316
- Polypropylene
- PVDF
- EPDM (Cover)
- Silicon (Cover)

02 | Tube Properties

- Antistatic (Carbon Black added)
- Non-Conductive Virgin

04 | End Connection / Fittings

- Flared Through
- Crimped On

Reduced Costs

Hose life of Singaflex Teflon Hoses can surpass that of conventional rubber hoses, this reduces the actual per hour operational costs of using teflon hoses than rubber hoses.

Durability

PTFE can withstand flexing and vibration without failure from flex fatigue as well as alternating cold and hot cycling.

With PTFE being chemically inert, it will not break down or deteriorate in service, and it has an unlimited shelf life because properties do not change with age or exposure to weather.

Flow

An extremely low coefficient of friction (0.05 to 0.20) provides a non-stick surface. Water absorption of PTFE is negligible, less than 0.01% by ASTM test, making it easy for cleaning and sterilisation.

Due to the low coefficient of friction, teflon hoses reduce deposit build up enabling flow rates to stay high and fluids to stay pure.

Safety and Compatibility

Being chemically inert, it is safe and suitable for handling many service applications dealing with “problem” fluids such as acids, hydraulic fluids, solvents, fuel and chemicals of all types.

Teflon hose can also withstand steam rates up to 250 PSI.

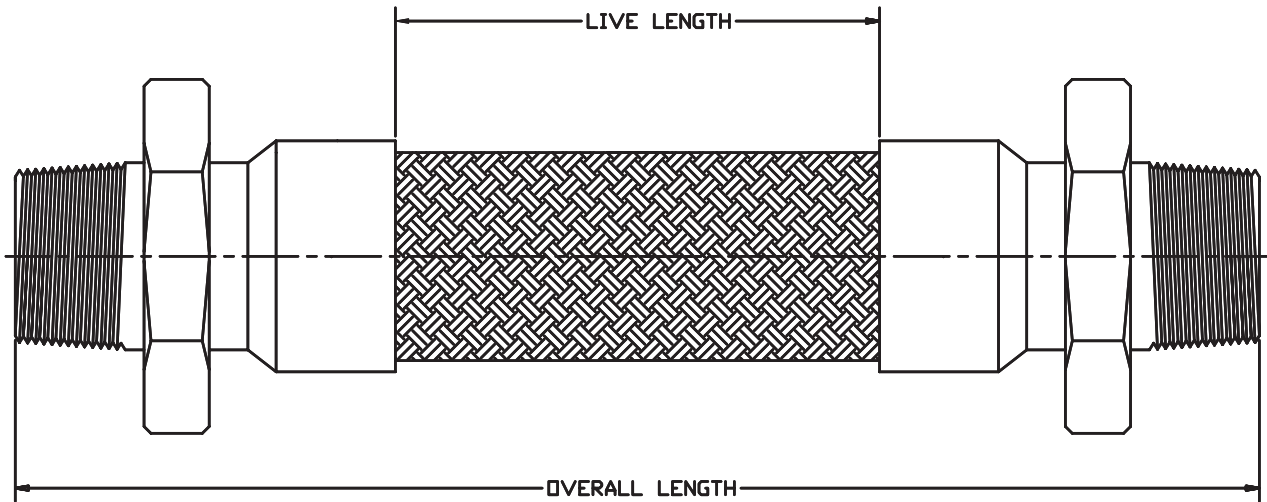
Lightweight

Singaflex Teflon Hoses are easier to move, handle and install as compared to rubber hoses with a comparable burst pressure rating. Teflon hoses are ideal as pigtail in gas handling and pneumatic systems where dew point must be low.

Applications

Aerospace, Automotive, Chemical, Industrial

GUIDE TO ORDERING



Guide to Ordering

Selection of the correct hose is important to ensure optimum field performance. To achieve this, there are a number of important requirements that must be known.

01 | Material of Hose, Braiding, Fitting

HOSE

- PTFE Convuluted- Polypropylene
- PTFE Smooth Bore

BRAIDS

- Polypropylene
- SS304/SS316

02 | Size of Hose and Fittings

- Nominal Diameter Size in "MM" or "Inch"
- DN3 - DN150 (1/8" to 6")

03 | End Connection

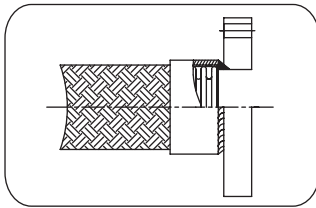
- See next Pages

04 | Overall Length

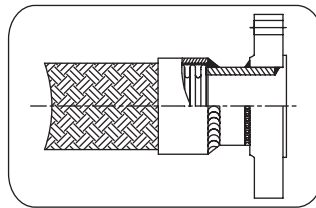
- Length specified to include length/thickness of end connections

05 | Working Pressure of Application

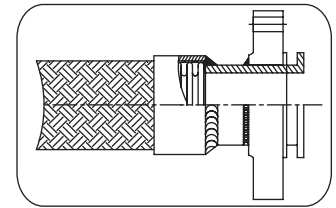
06 | Temperature of Application



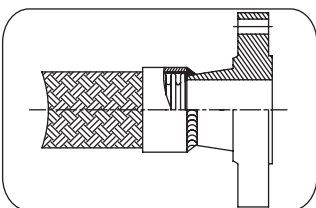
Flat Face Flange



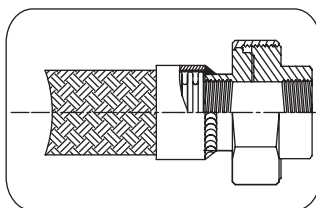
**Raised Face Slip-On
Flange on Pipe End**



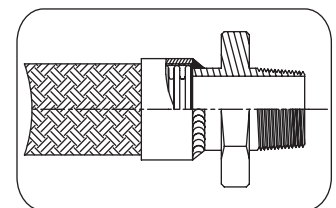
**Lap Joint
Rotating Flange**



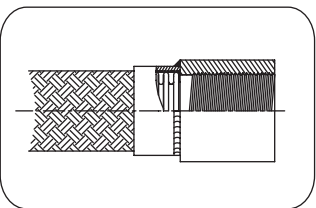
**Raised Face
Weldneck Flange**



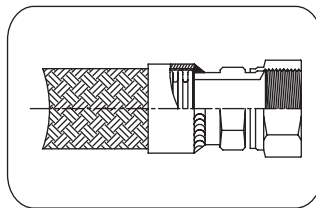
Female Union



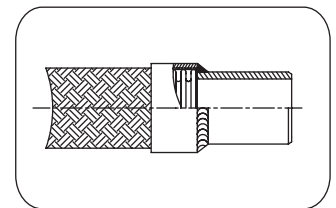
Male with Hex Nut



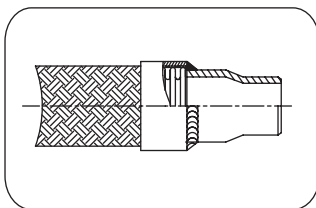
Female Socket



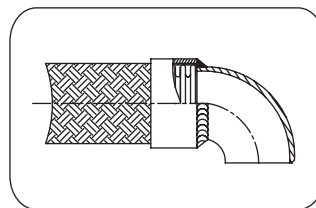
**Welded Female
Swivel**



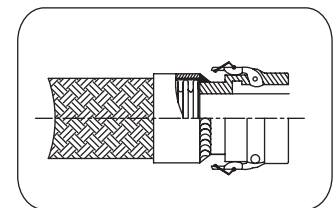
Welded Pipe



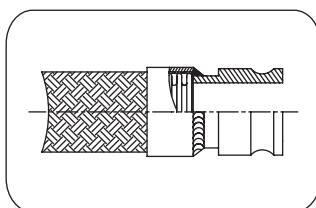
**Welded Concentric
Reducer**



**Welded 90
Degree Elbow**



Part C Female Coupler



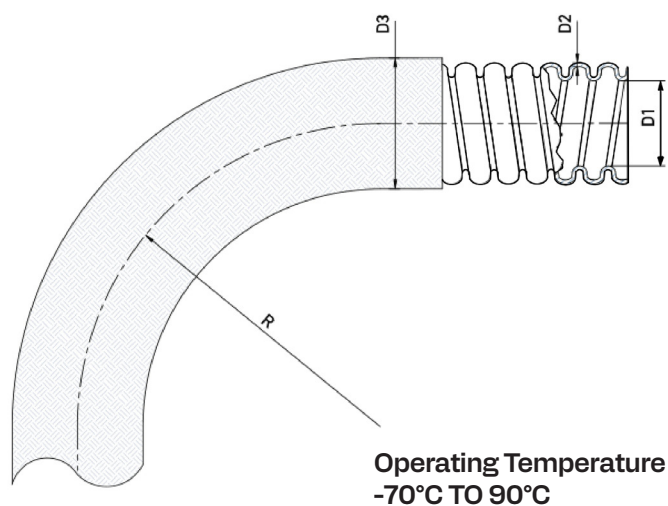
Part A Male Camlock

Convolutd Teflon Hose with Polypropylene

Construction

CORE: PTFE (POLYTETRAFLUORETHYLENE)

BRAID: POLYPROPYLENE YARD BRAID



Size	D1		D2	D3		R	WP	BP	Vacuum	Weight
	min.	max.	min.	min.	max.	mm	Bar 20°C		mbar 20°C	gr / m
1/2 "	11.6	13.6	0.82	21.4	23.4	50	40	160	887	189
5/8 "	15.1	16.4	0.88	26.3	28.2	65	30	120	887	259
3/4 "	19.5	20.5	1.00	31.1	33.9	55	30	120	887	243
1 "	24.5	25.5	1.10	36.7	40.7	85	30	120	887	345
1-1/4 "	31.5	32.5	1.15	44.4	48.6	100	25	100	887	531
1-1/2 "	36.5	37.5	1.45	49.7	52.4	120	22	88	887	607
1-3/4 "	44.5	45.5	1.45	58.3	63.9	135	20	80	887	752
2 "	49.5	50.5	1.50	62.5	69.2	165	20	80	887	930
2-1/2 "	62.5	63.5	1.60	83.4	91.6	230	16	64	887	1028
3 "	73.5	74.5	1.60	92.9	102.2	260	14	56	887	1186
4 "	94.5	95.5	1.82	127.1	134	300	10	40	887	2710

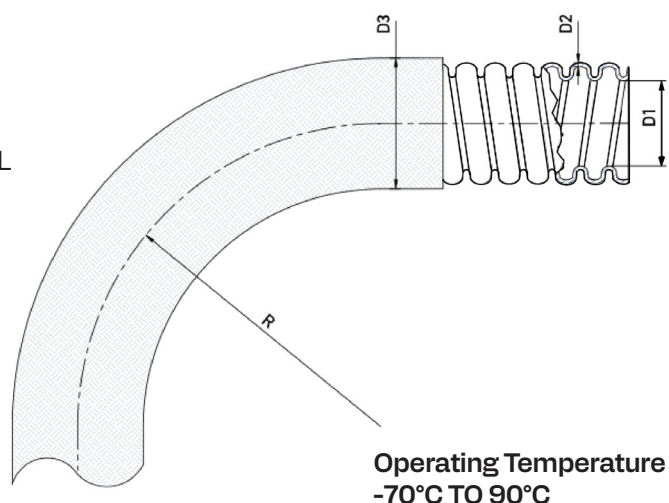
N.B. Technical data is subject to change without notice.

Convolutated Teflon Hose with Stainless Steel

Construction

CORE: PTFE (POLYTETRAFLUORETHYLENE)

BRAID: AISI304 HIGH TENSILE STAINLESS STEEL
SS316L BRAID AVAILABLE UPON REQUEST



Size	D1		D2	D3		R	WP	BP	Vacuum	Weight
	min.	max.	min.	min.	max.	mm	Bar 20°C		mbar 20°C	gr / m
1/4"	5.50	6.90	0.75	12.0	13.6	12	35	170	744	122
3/8"	8.50	10.5	0.65	15.3	17.6	24	35	170	744	168
1/2"	11.6	13.6	0.75	18.5	20.7	29	60	250	887	197
5/8"	15.1	16.4	0.80	23.3	25.3	35	55	170	887	302
3/4"	19.5	20.5	1.00	28.3	31.5	59	60	290	887	372
1"	24.5	25.5	1.00	34.3	38.3	71	40	210	887	604
1-1/4"	31.5	32.5	1.00	42.0	46.2	94	40	210	887	723
1-1/2"	36.5	37.5	1.50	46.7	51.5	118	35	175	887	1062
1-3/4"	44.5	45.5	1.50	55.7	61.3	141	25	135	887	1140
2"	48.0	49.0	1.65	60.4	66.6	147	25	135	887	1282
2-1/2"	62.5	63.5	1.60	78.9	87.1	230	16	80	887	2140
3"	73.5	74.5	1.60	88.4	97.6	260	14	65	887	3310
4"	94.5	99.5	1.82	119.1	125.5	300	10	40	887	4050
5"	128.0	132.0	2.20	151.0	161.0	450	6	24	554	5500
6"	150.0	154.0	2.50	177.0	186.0	520	6	24	554	6000

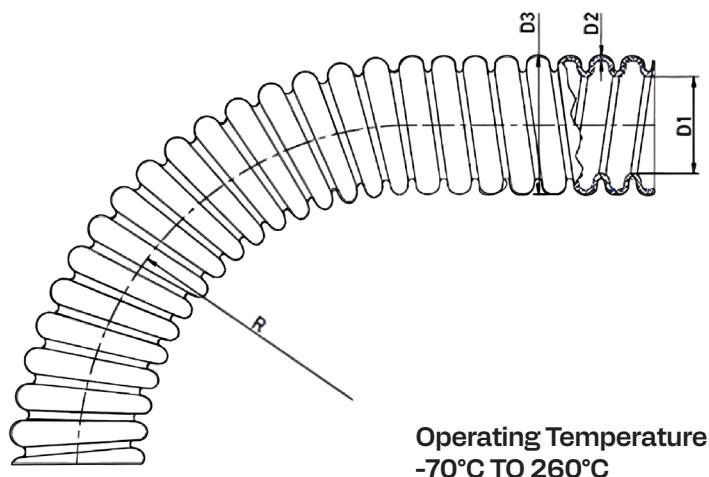
N.B. Technical data is subject to change without notice.

SINGAFLEX TEFLON (PTFE) FLEXIBLE HOSE

Convuluted Teflon Hose Only

Construction

CORE: PTFE (POLYTETRAFLUORETHYLENE)



Operating Temperature
-70°C TO 260°C

Size	D1		D2	D3		R	WP	BP	Vacuum	Weight
	min.	max.	min.	min.	max.	mm	Bar 20°C		mbar 20°C	gr / m
1/4"	5.50	6.90	0.75	9.90	11.5	25	4.0	14.0	744	47
3/8"	8.50	10.5	0.65	13.2	14.7	25	4.0	14.0	744	58
1/2"	11.6	13.6	0.75	16.4	18.2	50	4.0	14.0	887	72
5/8"	15.1	16.4	0.80	21.2	23.2	65	3.0	11.0	887	97
3/4"	19.5	20.5	1.00	26.6	29.4	55	3.0	11.0	887	142
1"	24.5	25.5	1.00	32.2	36.2	85	3.0	10.0	887	194
1-1/4"	31.5	32.5	1.00	39.9	44.1	100	2.5	9.0	887	358
1-1/2"	36.5	37.5	1.50	44.6	49.4	120	2.5	9.0	887	377
1-3/4"	44.5	45.5	1.50	53.2	58.8	135	2.0	8.0	887	455
2"	49.5	50.5	1.65	57.9	64.1	165	2.0	8.0	887	522
2-1/2"	62.5	63.5	1.60	77.9	86.1	230	1.5	6.0	887	654
3"	73.5	74.5	1.60	87.4	96.6	260	1.3	5.0	887	765
4"	94.5	99.5	1.82	118.1	124.5	300	1.0	4.5	887	1310
5"	128.0	132.0	2.20	144.0	154.0	450	1.0	4.5	554	3300
6"	150.0	154.0	2.50	176.0	185.0	520	1.0	4.0	554	3600

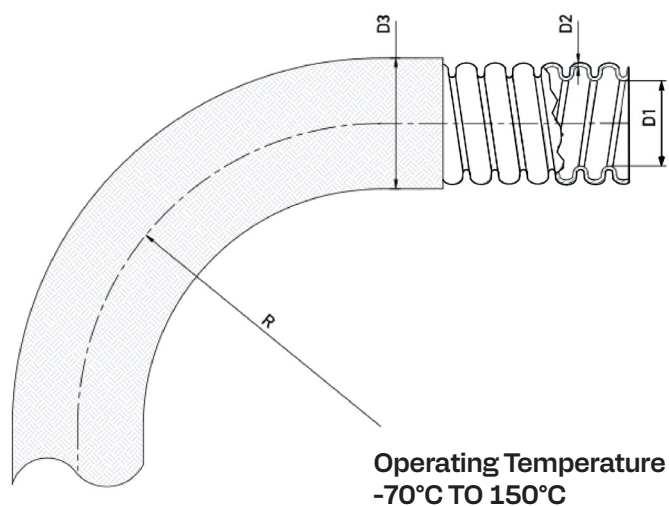
N.B. Technical data is subject to change without notice.

Convolutd Teflon Hose with PVDF

Construction

CORE: PTFE (POLYTETRAFLUORETHYLENE)

BRAID: PVDF YARN BRAID



Size	D1		D2	D3		R	WP	BP	Vacuum	Weight
	min.	max.	min.	min.	max.	mm	Bar 20°C		mbar 20°C	gr / m
1/2"	11.6	16.9	0.82	21.4	23.4	50	10	40	887	130
5/8"	15.1	16.4	0.88	26.3	28.2	65	10	40	887	240
3/4"	19.5	20.5	1.00	31.1	33.9	55	10	40	887	340
1"	24.5	25.5	1.10	36.7	40.7	85	10	40	887	460
1 1/4"	31.5	32.5	1.15	44.4	48.6	100	10	40	887	570
1 1/2"	36.5	37.5	1.45	49.7	52.4	120	10	40	887	710
1 3/4"	44.5	45.5	1.45	58.3	63.9	135	10	40	887	1050
2"	49.5	50.5	1.50	62.5	69.2	165	10	40	887	1150
2 1/2"	62.5	63.5	1.60	83.4	91.6	230	7	28	887	2140
3"	73.5	74.5	1.60	92.9	102.2	260	6	24	887	3310

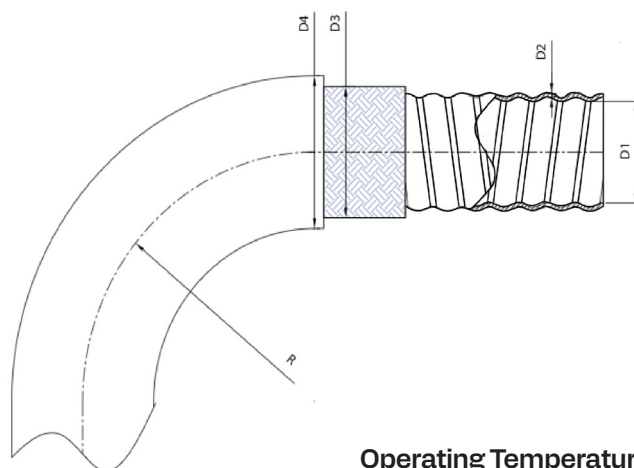
N.B. Technical data is subject to change without notice.

Convolute Teflon Hose with EPDM Vulcanized Stainless Steel

Construction

CORE: PTFE (POLYTETRAFLUORETHYLENE)

BRAID: AISI304 HIGH TENSILE STAINLESS STEEL
SS316L BRAID AVAILABLE UPON REQUEST



Operating Temperature
-70°C TO 260°C

Size	D1		D2	D3		R	WP	BP	Vacuum	Weight
	min.	max.	min.	min.	max.	mm	Bar 20°C		mbar 20°C	gr / m
1/2"	11.6	13.6	0.75	19.9	26.9	25	60	300	887	140
5/8"	15.1	16.4	0.80	23.2	30.2	35	55	270	887	160
3/4"	19.5	20.5	1.00	35.6	42.6	55	60	290	887	390
1"	24.5	25.5	1.00	41.2	48.2	85	40	210	887	540
1 1/4"	31.5	32.5	1.00	48.9	55.9	100	40	210	887	680
1 1/2"	36.5	37.5	1.50	54.2	61.2	120	35	175	887	1110
1 3/4"	44.5	45.5	1.50	62.8	69.8	135	25	135	887	1650
2"	49.5	50.5	1.65	67.5	74.5	165	25	135	887	1710

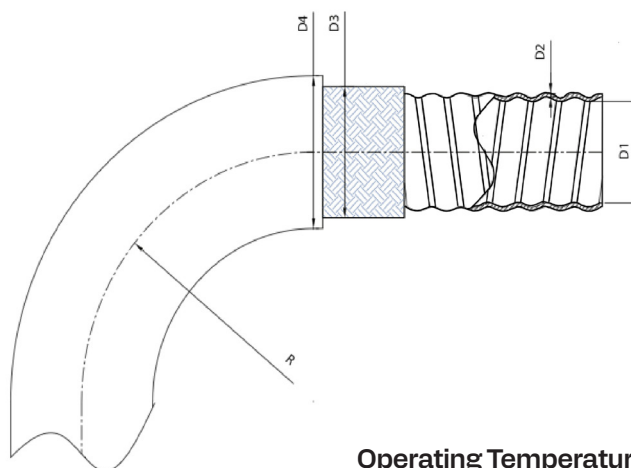
N.B. Technical data is subject to change without notice.

Convolutd Teflon Hose with Silicone Vulcanized Stainless Steel

Construction

CORE: PTFE (POLYTETRAFLUORETHYLENE)

BRAID: AISI304 HIGH TENSILE STAINLESS STEEL
SS316L BRAID AVAILABLE UPON REQUEST



Operating Temperature
-70°C TO 260°C

Size	D1		D2	D3		R	WP	BP	Vacuum	Weight
	min.	max.	min.	min.	max.	mm	Bar 20°C		mbar 20°C	gr / m
1/2"	11.6	13.6	0.75	19.9	26.9	25	60	300	887	140
5/8"	15.1	16.4	0.80	23.2	30.2	35	55	270	887	160
3/4"	19.5	20.5	1.00	35.6	42.6	55	60	290	887	390
1"	24.5	25.5	1.00	41.2	48.2	85	40	210	887	540
1 1/4"	31.5	32.5	1.00	48.9	55.9	100	40	210	887	680
1 1/2"	36.5	37.5	1.50	54.2	61.2	120	35	175	887	1110
1 3/4"	44.5	45.5	1.50	62.8	69.8	135	25	135	887	1650
2	49.5	50.5	1.65	67.5	74.5	165	25	135	887	1710

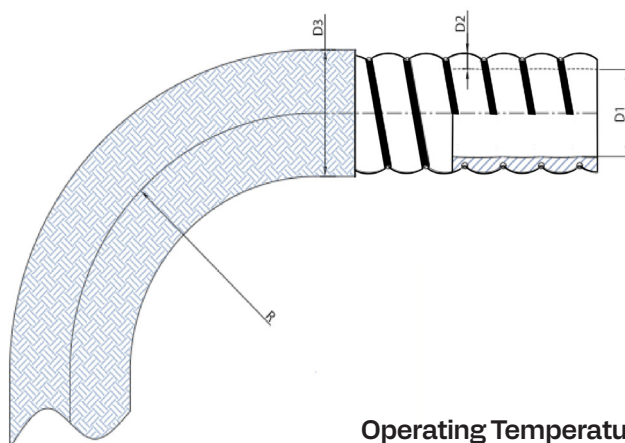
N.B. Technical data is subject to change without notice.

Smooth Bore Teflon Hose with Stainless Steel

Construction

CORE: PTFE (POLYTETRAFLUORETHYLENE)

BRAID: AISI304 HIGH TENSILE STAINLESS STEEL
SS316L BRAID AVAILABLE UPON REQUEST



Operating Temperature
-54°C TO 260°C

Size	D2	D3	R	WP	BP	Weight
	mm	mm	mm	Bar 20°C		gr / m
1/8"	1.00	6.40	40	225	900	65
3/16"	0.75	7.60	50	210	840	84
1/4"	0.65	9.70	75	210	840	121
5/16"	0.75	11.2	100	175	700	163
3/8"	0.75	12.6	125	165	660	170
13/32"	0.75	13.8	135	140	560	185
1/2"	0.75	16.5	165	120	480	234
5/8"	0.90	19.8	200	88	352	318
3/4"	0.90	22.9	230	75	300	395
7/8"	1.00	26.2	230	62	248	462
1"	1.05	29.5	300	62	248	528
1.1/8"	1.20	33.0	410	44	176	585

N.B. Technical data is subject to change without notice.