

tyco

Flow Control

Flexible Piping Systems

Features

- Specifically designed to meet the requirements of ISO 10380 standards.
- Most of the range can be supplied on drums for easy handling or where continual long lengths are needed.
- Will convey all manner of liquids and gases.
- High physical strength.
- Long life.
- Good corrosion characteristics.
- Suitable for elevated temperature up to 600°C or in cryogenic applications down to -200°C.
- Flexibility:
Class 1 ISO 10380.
- Materials:
Tube - 321 S/S / 316 S/S / 304 S/S
Braid - 304 S/S / 316 S/S
Other materials are available on request e.g. monel, inconel

Corrugated Stainless Steel Braided Pressure Hose, to ISO 10380 Specification.

- UFBX0 Unbraided
- UFBX1 Single Braid
- UFBX2 Double Braid



General Applications

- Static installations – where the flexible hose is used to connect pipework out of alignment and remains in a static position
- Occasional flexing – when the hose is required to flex only occasionally, such as manual handling
- Constant flexing – when the hose is required to flex continuously, usually on moving machinery
- Vibration – high frequency, low amplitude movement, eg on a compressor or pump

FLEXONICS

Metal Hose - Corrugated Standard Pressure Hose

UFBX

Standard Pressure Hoses Chart

Nominal Hose ID mm	Hose Type	Max Hose O.D. mm	Pressure Data			Minimum CL Bend Radius		Approx Weight kg/m
			Max Working Pressure bar @21°C	Max Test Pressure bar @21°C	Max Burst Pressure bar @21°C	Constant Flexing mm	Static Bend mm	
6	UFBX0	10.0	10	15	40	110	16	0.08
	UFBX1	11.4	167	250	668	110	25	0.16
	UFBX2	12.8	220	350	880	110	25	0.24
10	UFBX0	14.9	5.5	8.3	22	150	22	0.16
	UFBX1	16.3	100	150	400	150	38	0.27
	UFBX2	17.6	178	267	712	150	38	0.38
12	UFBX0	19.6	5.5	8.3	22	165	24	0.17
	UFBX1	21.0	74	111	297	165	50	0.36
	UFBX2	22.4	103	155	412	165	50	0.53
20	UFBX0	25.7	4.1	6.2	16.4	200	30	0.27
	UFBX1	27.3	65	97	260	200	70	0.52
	UFBX2	28.9	86	129	344	200	70	0.77
25	UFBX0	33.7	4.1	6.2	16.4	200	44	0.32
	UFBX1	35.8	50	75	200	200	85	0.70
	UFBX2	37.9	76	114	304	200	85	1.10
32	UFBX0	41.1	3.4	5.1	13.6	250	55	0.40
	UFBX1	43.2	39	59	156	250	105	0.86
	UFBX2	45.3	57	85	228	250	105	1.30
40	UFBX0	47.9	2.4	3.6	9.6	250	70	0.67
	UFBX1	50.0	35	53	140	250	127	1.20
	UFBX2	52.2	55	82	220	250	127	1.70
50	UFBX0	62.1	1.0	1.5	4.0	350	90	0.82
	UFBX1	64.2	30	45	120	350	160	1.50
	UFBX2	66.3	44	66	176	350	160	2.30
65	UFBX0	76.5	1.0	1.5	4.0	410	110	1.90
	UFBX1	78.6	26	39	104	410	200	2.80
	UFBX2	80.7	46	69	184	410	200	3.70
80	UFBX0	89.8	1.0	1.5	4.0	450	130	2.30
	UFBX1	91.9	22	33	88	450	230	3.40
	UFBX2	94.1	40	60	160	450	230	4.50
90	UFBX0	114.0	0.75	1.13	3	570	175	2.50
	UFBX1	117.0	20.6	30.9	82.4	570	220	4.10
	UFBX2	120.0	27.0	40.5	108	570	220	5.70
100	UFBX0	126.0	0.69	1.04	2.8	560	200	2.80
	UFBX1	129.0	18.4	27.6	73.6	560	230	4.60
	UFBX2	132.0	33.0	49.5	132	560	230	6.40
125	UFBX0	151.0	0.69	1.04	2.8	710	250	4.70
	UFBX1	153.0	11.5	17.3	46.0	710	250	6.60
	UFBX2	156.0	20.7	31.0	82.8	710	250	8.50
150	UFBX0	178.0	0.55	0.83	2.2	815	290	5.50
	UFBX1	180.0	11.2	16.8	44.8	815	320	7.70
	UFBX2	183.0	20.0	30.0	80.0	815	320	9.90
200	UFBX0	232.0	0.31	0.46	1.24	1015	400	7.30
	UFBX1	235.0	7.0	11.0	28.0	1015	435	10.00
	UFBX2	237.0	10	15	40.0	1015	435	13.00
250	UFBX0	287.0	0.25	0.37	1.0	1220	490	9.20
	UFBX1	292.0	9.6	14.4	38.4	1220	560	14.70
	UFBX2	-	-	-	-	-	-	-

Note:

Tables: The values given above are for factory braided and assembled units and are given as an aid to hose selection. For unbraided applications, or if the hose is to form an assembly used at the extreme of one or more of the characteristics above, please discuss the application with our engineering sales office. The table should be read in conjunction with Design and Installation considerations published by Tyco Flexible Piping Systems.

Conversion Factors

- Flow** 1 gpm (UK) = 0.273m³/h
1m³/h = 3.67gpm (UK)
- Speed** 1 ft/s = 0.3048 m/s
1m/s = 3.28 ft/s
- Pressure** 1 mBar/m = 0.00442 psi/ft
- Drop** 1 psi/ft = 226 mBar/m
- Volume** 1 US gallon = $\frac{1}{1.75}$ x UK gallon
1 UK gallon = $\frac{1}{1.75}$ x US gallon
= 0.00455m³
1 m³ = 220 gallons (UK)

Example

UFBX nominal I.D.50, 15m³/h, water. Find point 'P' where the nominal I.D.50 line crosses the volume flow line for 15m³/h. Read down from 'P' for speed 2m/s. Read down and left from P for pressure loss of about 25mbar/m.

Water Flow Diagram for Straight UFBX Hose

