

How to Order Bioflex Ultra Hose & Hose Assemblies

How to Order

The quantity, hose size, liner, braid, cover, protection system, length and fittings must be selected and specified in full.

EITHER by a full, written description. The hose grade can be specified by the code initials e.g. "Bioflex Ultra AS, SS, RC, DRC-300" defines an antistatic PTFE lined hose with an EPDM rubber cover over a SS braid, with a double rubber cover at both ends.

The quantity, length and fittings can then be written in - e.g. "4 off x 1" bore Bioflex Ultra, AS, SS, RC, DRC-300 hose x 3.00 metres long. Both ends non-lined ANSI 150# S/S Flanges".

OR by Part Numbers, as defined on page 13. Example from above "4 off Part No. 16-BFXU/AS-RC-00-3.00m-12-12, with DRC 300 at both ends".

Any special requirements relating to the hose construction, or information required on Tags, or Certificates, or special testing of requirements, must be specified in full on the enquiry or purchase order.

Selecting the Hose Grade

There are two types of PTFE liner available, natural (GP) and anti-static (AS) and two types of braid; Grade 316 stainless steel (SS) and polypropylene (PB). These are described on page 14 & 15. Rubber covering and other external protection systems are also available, described on pages 16 & 17.

A hose grade is specified by using the abbreviations given. For example, Bioflex Ultra AS,PB would describe a hose with an anti-static PTFE liner and a polypropylene braid.

Selecting the End Fittings

Bioflex Ultra is available with a range of 'standard' end fittings (described on pages 18-32), normally supplied hygienically PTFE lined and flared.

Stainless Steel End Fitting Materials

- **Non-Lined Spigots** - are made from Grade 316L SS
- **PTFE Lined Spigots** - are made from Grade 316L or Grade 316C SS
- **Cam and Groove Female Fittings** - are made from Grade 316C SS (Body) and 316L SS (Spigot)
- **Swivelling Nuts and Flanges** - are made from Grade 304 SS
- **Ferrules** - most ferrules are made from Grade 304 SS, except some are made from Grade 316L SS - consult Aflex Hose if necessary.

The equivalent specification for the different Grades of Stainless Steel are listed below:

Specification Equivalents List

Grade	BS - British Standard	AISI - American Standard or C = Casting Grade	EN - European Norm
316L SS	BS 316 S11	AISI 316 L	EN 1.4404
316C SS	BS 316 C16	CF8M	EN 1.4408
304 SS	BS 304 S15	AISI 304	EN 1.4301

To special order, end fitting components can be made in non-standard grades of SS such as 1.4435, or other materials such as Hastelloy or Monel.

Conditions of Sale

Bioflex Ultra hose and hose assemblies are only supplied on the basis that the customer has read and accepted the Conditions of Sale as given on pg's 39/40. Customers own Conditions of Sale (or equivalent) are not accepted unless an acceptance, signed by a Director of Aflex Hose is supplied.

Selecting the Hose Length (see also pages 36 - 38)

Bioflex Ultra hose assemblies are made up to the specific lengths required. The hose length is taken as the length from the sealing face at one end of the hose to the same at the other end. The length tolerance is normally +5%-0%. Closer tolerances are available to special order.

Bioflex Ultra Hose Assembly Length Limitations *

Nominal Size of Hose		Minimum Hose Length Between Fittings						↑ Maximum Hose Assembly Length	
		Used Straight		Flexed through 90°					
		All Grades		TO, KYB Grades		SS, PB RC Grades			
in	mm	in	mm	in	mm	in	mm	ft	mtrs
3/8	10	3	75	3.00	75	3.00	75	100	30
1/2	15	3	75	3.00	75	3.00	75	100	30
5/8	16	3	75	4.00	100	3.00	75	100	30
3/4	20	3	75	4.72	120	4.00	100	100	30
7/8	22	3	75	5.71	145	4.00	100	100	30
1	25	3	75	6.89	175	4.33	110	100	30
1 1/4	32	4	100	8.66	220	6.30	160	100	30
1 3/8	35	4	100	10.04	255	7.48	190	100	30
1 1/2	40	4	100	11.22	285	8.66	220	100	30
1 7/8	48	4	100	17.32	440	11.81	300	100	30
2	50	4	100	18.70	475	12.40	315	100	30

* Listed minimum lengths are for the Bioflex Ultra Hose only, and DO NOT INCLUDE THE LENGTHS OF THE FITTINGS AT EACH END. These must be found from the end fitting pages and added to calculate the minimum length of the hose assembly.

† Longer lengths may be available to special order.