

- CHEMICAL RESISTANT
- SELF - CLEANING
- FLEXIBLE
- HYGIENIC

Bioflex®

SMOOTHBORE, FLEXIBLE PTFE HOSE



JQA-QM7185



Bioflex® The World's Leading PTFE Flexible Hose.

Bioflex 是领先世界的 PTFE软管

Bioflex is a smoothbore, highly flexible, PTFE lined hose. Its design overcomes the disadvantages of conventional smoothbore and convoluted flexible hose designs, dramatically improving on many of their individual technical performance parameters.

Bioflex 是一种具有平滑内表面,非常柔软的PTFE软管。
其设计克服了传统的平滑的内表面与螺旋型软管设计的各自不足之处,在许多个别的技术性能参数上都有了飞跃的提高。

Comparison with convoluted PTFE Hose

与波纹状PTFE软管的比较

Hygienic Cleanability 清洁卫生

Vastly improved, due to smooth bore and hygienically polished surface finish. 有平滑的内表面并进行了为满足卫生要求的表面抛光处理,卫生和易清洁程度得到很好改善。

Fully Self Draining 液体完善排出

Unlike conventional convoluted hose, which pools fluid in the convolutions when at an angle. 与传统的螺旋型软管在凹凸处积聚液体情况不同,液体能全部顺畅流出。

Flow Rates 流量

More than 100 % higher. 提高了100%以上。

Pressure Ratings 耐压性

More than 50 % higher. 提高了50%以上。

Gas Permeation Resistance 耐气体的渗透性

More than 150 % higher. 提高了150%以上。

Flex Life at Temperature and Pressure

在温度和压力下的寿命
More than 50 times the life, dependent upon test conditions. 根据试验条件,高于50倍以上。

Comparison with Silicone Rubber Hose

与硅胶软管的比较

Hygienic Cleanability 清洁卫生

Much better, due to highly polished inner surface finish. 由于通过高度抛光内表面处理,卫生和易清洁程度得到很好改善。

Chemical Resistance 耐化学物质性

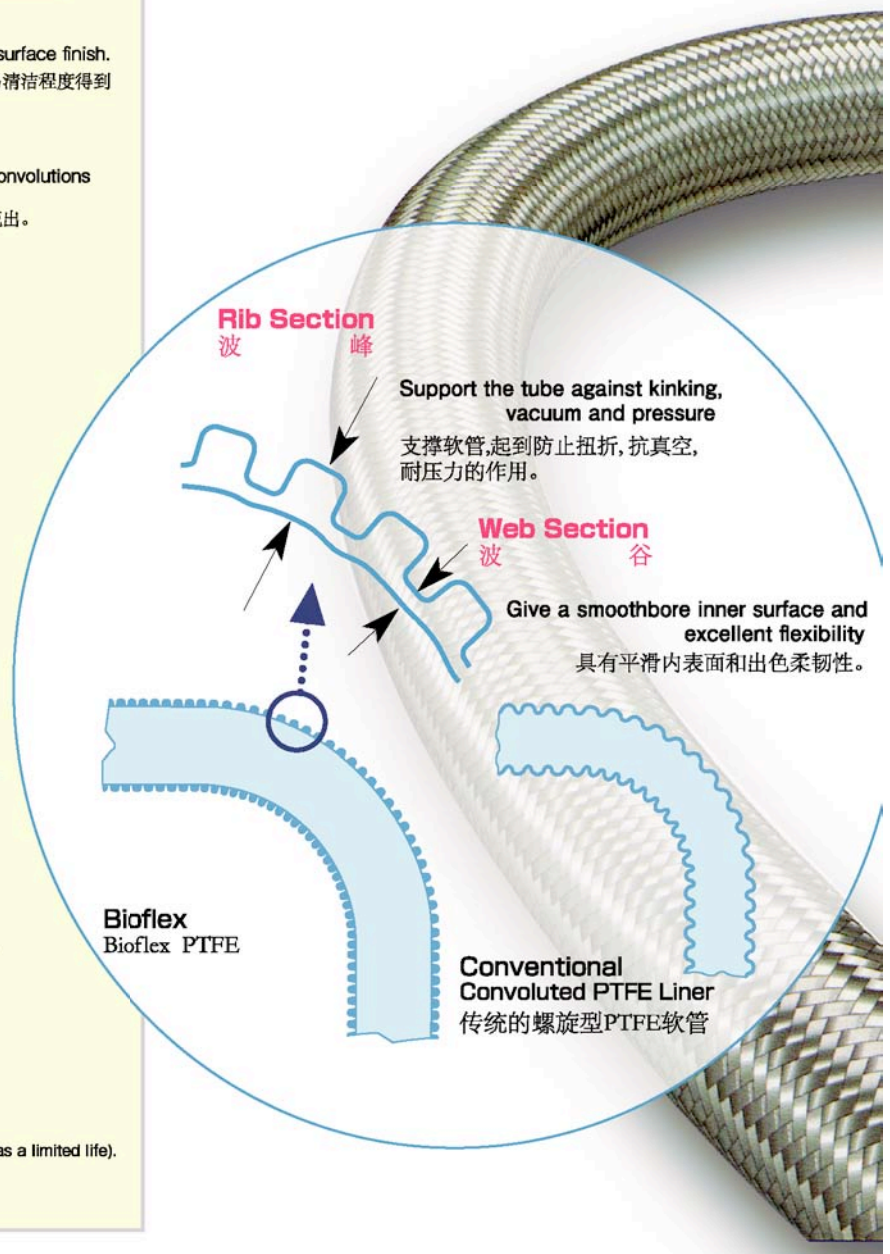
Considerably improved, particularly to strong oxidizing acids and bases. 耐化学物质性能,特别在强氧化酸和碱的物质上,有明显的提高。

Temperature & Pressure Ratings 耐温度和压力

Much higher temperature and pressure capability. 能承受较高的温度和压力。

Steam Resistance 耐蒸气

Permanently resistant to steam sterilizing (unlike silicone hose, which has a limited life). 永久承受蒸气杀菌。(与寿命有限的硅胶软管不一样)

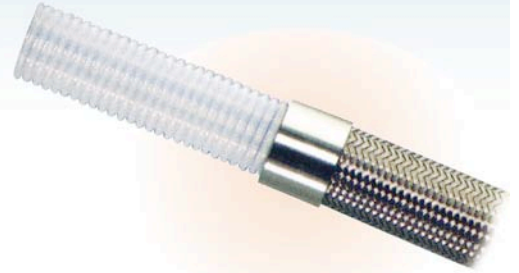


Bioflex Hose Liner Bioflex 软管内衬

Bioflex GP

Bioflex GP is the 'General Purpose' grade, for use in all applications where fluids or gases being conveyed are not highly electrically resistant.

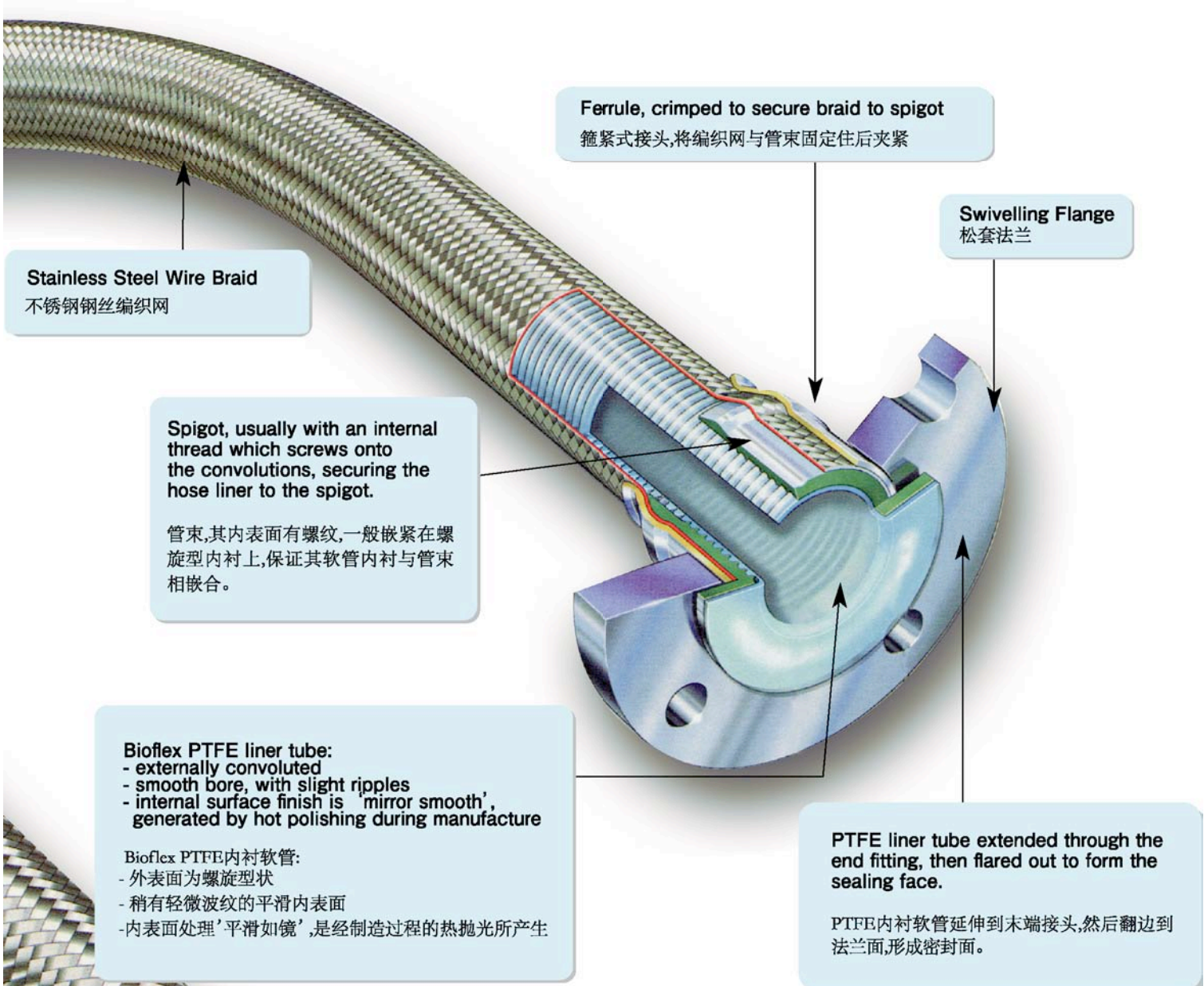
Bioflex GP 是一种'普通用途'的软管,用于输送非高电阻的液体或气体。



Bioflex AS

Bioflex AS is suitable for use in applications where electrically resistive fluids, such as fuels, solvents or freon or pure, dry gases such as halogens or steam are being conveyed. The use of Bioflex AS prevents a damaging electrostatic charge build-up inside the hose.

Bioflex AS 软管用于输送有电阻的液体,如燃料、溶剂、或者氟利昂、或者如卤气、蒸气等纯净气体·干燥气体。使用Bioflex AS软管,可以起到防止由软管内部静电积聚所引起损害的作用。

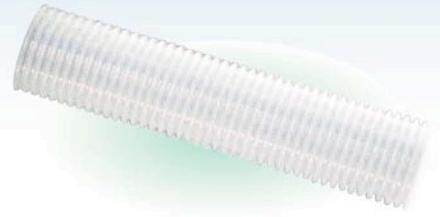


Bioflex Hose Braid Bioflex 软管编织网

TO : Tube Only (No braid) 软管 (无编织网)

TO grade hose (available in both GP and AS) is a lightweight hose, used in applications where working pressures are low and where there is no need for the physical protection offered by an external braid.

TO 等级的软管 (有GP和AS两种型号) 是一种轻量级的软管, 该软管用在低工作压力, 不需外部编织网作为物理上保护时使用。



SS : Stainless Steel 不锈钢钢丝编织网

Stainless Steel braided hose is the general purpose product, and can be used in applications involving high temperatures and working pressures. High tensile 304 stainless steel wire is used, to give maximum pressure resistance and external protection to the hose.

不锈钢钢丝编织网软管是一种普通用途的软管, 用于高温·高压的工作环境。高张力等级的304不锈钢钢丝编织网能承受最高压力, 并对软管起到外部保护作用。



PB : Polypropylene Braid 聚丙烯编织网

Polypropylene braided hose is often preferred in applications involving frequent handling and movement of the hose, and where temperatures are within the range -30°C and +100°C. PB braid is lighter in weight, and any broken strands will not cut the operator's hands. In addition, PB braid is not prone to chloride stress corrosion.

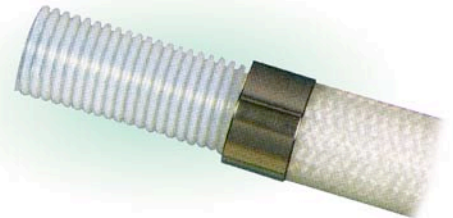
在软管频繁移动的场所和温度范围为-30°C至100°C之间, 人们不喜欢选用不锈钢钢丝编织网, 而喜欢选用聚丙烯编织网软管。PB编织网重量轻, 即使有断线, 也不会刮伤操作人员的手。还有, PB编织网不容易导致氯化物应力腐蚀。



KYB : Kynar Braid Kynar 编织网

Kynar Braid is only used where severe chemical corrosion conditions exist around the outside of the hose. This can happen when Chlorine or Fluorine are being transferred. Diffusion of these gases through the PTFE liner can lead to atmospherically wetted chlorine attacking the braid material, in which case the Kynar Braid would be resistant.

Kynar 编织网仅用于化学腐蚀性强的物质在软管外部存在的场合。氯气或氟气运输时, 可能会遇到这种物质。这些气体通过PTFE内衬的扩散, 会导致大气中潮湿的氯气对编织网素材有侵蚀作用。在这种场合, Kynar编织网套就能起到抵抗侵蚀作用。



Bioflex External Protection Systems Bioflex软管的外部保护

Rubber Covered 橡胶外套



Silicone Rubber Cover 硅胶外套



Protection Coil 钢丝加固



Scuff Rings 防止擦伤圆环



Fireproof Rubber Covered 耐火橡胶外套



● Bioflex Size Range and Specifications / 尺寸范围和参数 ●

Nominal Hose Size		Actual Bore Size	O/D of Tube	Braid Type	O/D of Braid or Rubber	Minimum Bend Radius	MWP of Hose	Minimum Burst Pressure	Maximum Continuous Hose Length	Weight per Unit Length
软管口径		实质内径	软管外径	网套种类	网套或橡胶管的外径	最小弯曲半径	最大使用压力	最小破坏压力	最大连续长度	重量
(mm)	(in)	(mm)	(mm)		(mm)	(mm)	(Bar)	(Bar)	(m)	(Kg/m)
10	3/8	9.5	11.75	TO	-	35	5	20	20	0.06
				SS	13	20	80	320	20	0.14
15	1/2	12.7	15.40	TO	-	60	5	20	20	0.15
				SS	16.5	38	70	280	20	0.29
				PB	18.0	38	35	140	20	0.22
				SS,RC/FP	21.0	60	70	280	20	0.39
				SI	21.0	60	70	280	10	0.39
				KYB	17.5	60	10	40	20	0.19
16	5/8	16.0	19.50	TO	-	68	5	20	20	0.17
				SS	20.8	45	65	260	20	0.35
				PB	22.2	45	33	130	20	0.25
				SS,RC/FP	26.4	68	65	260	20	0.47
				SI	26.4	68	65	260	10	0.47
				KYB	21.5	68	10	40	20	0.20
20	3/4	19.0	23.00	TO	-	75	5	20	20	0.20
				SS	24.4	50	60	240	20	0.40
				PB	25.8	50	30	120	20	0.28
				SS,RC/FP	29.0	75	60	240	20	0.55
				SI	29.0	75	60	240	10	0.55
				KYB	26.0	75	10	40	20	0.24
22	7/8	22	26.80	TO	-	92.5	4	16	20	0.28
				SS	28.4	60	55	220	20	0.52
				PB	30.2	60	27.5	110	20	0.38
				SS,RC/FP	33.0	92.5	55	220	20	0.74
				SI	33.0	92.5	55	220	5	0.74
				KYB	29.7	92.5	10	40	20	0.33
25	1	25.4	31.00	TO	-	110	4	16	20	0.36
				SS	32.3	70	50	200	20	0.63
				PB	34.7	70	25	100	20	0.47
				SS,RC/FP	36.9	110	50	200	20	0.92
				SI	36.9	110	50	200	5	0.92
				KYB	33.4	110	10	30	20	0.41
32	1 1/4	32	37.30	TO	-	140	3	12	20	0.45
				SS	38.4	100	45	180	20	0.85
				PB	40.1	100	23	90	20	0.72
				SS,RC/FP	43.2	140	45	180	20	1.15
				SI	43.2	140	45	180	5	1.15
				KYB	39.7	140	6	24	20	0.53
35	1 3/8	34.9	40.50	TO	-	160	2	8	18	0.54
				SS	41.8	120	40	160	18	1.00
				PB	44.2	120	20	80	18	0.86
				SS,RC/FP	46.4	160	40	160	18	1.38
				SI	46.4	160	40	160	5	1.38
				KYB	42.9	160	6	20	18	0.68
40	1 1/2	38	45.00	TO	-	180	2	8	17	0.66
				SS	46.8	140	40	160	17	1.10
				PB	48.8	140	20	80	17	0.90
				SS,RC/FP	54.6	180	40	160	17	1.55
				SI	54.6	180	40	160	5	1.55
				KYB	47.7	180	6	20	17	0.78
48	1 7/8	47.6	54.60	TO	-	280	2	8	13	0.82
				SS	56.4	190	35	140	13	1.38
				PB	58.4	190	18	72	13	1.12
				SS,RC/FP	64.2	280	35	140	13	1.94
				SI	64.2	280	35	140	5	1.94
				KYB	57.3	280	6	16	13	0.97
50	2	50.8	59.10	TO	-	300	2	8	10	1.25
				SS	60.9	200	30	120	10	1.90
				PB	62.9	200	15	60	10	1.60
				SS,RC/FP	68.9	300	30	120	10	2.56
				SI	68.9	300	30	120	5	2.56
				KYB	61.7	300	6	12	10	1.42

※TO=Tube Only (No Braid) SS=Stainless Steel PB=Polypropylene Braid RC=Rubber Covered
 软管(无编织网) 不锈钢钢丝编织网 聚丙烯编织网 橡胶外套

FP=Fireproof Rubber covered SI=Silicone Rubber Covered KYB=Kynar(PVDF)Braid
 耐火橡胶外套 硅胶外套 聚丙烯编织网

Maximum Operating Temperatures (internal fluid) / 最高使用温度(内部流体)

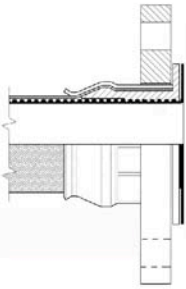
SS -70°C~+260°C PB -30°C~+100°C SS,RC·SS,FP -40°C~+140°C SS,SI -40°C~+180°C KYB -40°C~+120°C
 (For external temperature limits, reduce maximum temperatures by 20°C) (外部温度范围为最高温度减去20°C)

Bioflex Standard Flange Fittings

Bioflex标准法兰接头

Swivel flange fitting, integral PTFE lined and flared.

松套法兰接头,PTFE内衬直接翻边至法兰密封端面使其成为一个整体。



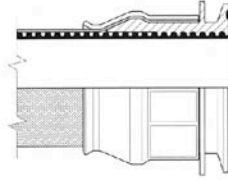
Nominal size : 1/2" - 2"
口径: 1/2" - 2"

Bioflex Triclover Fittings

卡箍式接头

Triclover fitting (also known as Triclamp or Clamp Pipe fittings) integral PTFE lined and hot formed.

卡箍式接头(也可称为卡夹式或夹紧管道接头),软管PTFE内衬直接延伸到卡箍式接头外并翻边,形成密封面,使之成为一个整体。用专有热固定技术固定而成。



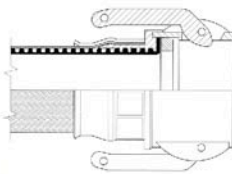
Nominal size : 3/8" - 2"
口径: 3/8" - 2"

Cam Action Fittings

快速接头

Cam Action quick release coupler (female) fitting, integral PTFE lined.

快速连接拆下联结(母)接头,软管PTFE内衬直接延伸到快速接头内部垫片密封处,在此密封面翻边,使之成为一个整体。



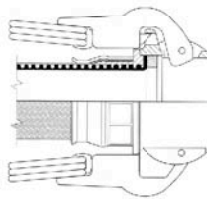
Nominal size : 3/4" - 2"
口径: 3/4" - 2"

Autolock Cam Action Fittings

自动锁紧型快速接头

Locking Arm Cam Action Quick Release Fitting. The lock is released by pulling a wire ring horizontally away from the fitting, then using the ring to pull the arm open.

锁紧型快速连接开启接头。通过圆环拉手的提拉完成接头连接和开启。



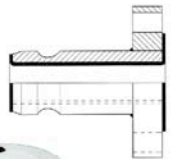
Nominal size : 1" - 2"
口径: 1" - 2"

Cam Action Adaptor to Flange Connector

快速接头配松套法兰

SS Cam Action Adaptor (Male) to Flange Connector. PTFE lined right through the connector.

PTFE内衬不锈钢快速接头(公),配松套法兰。



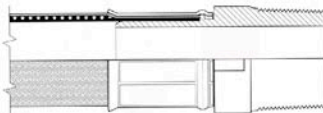
Nominal size : 1" - 2"
口径: 1" - 2"

Non-Lined End Fittings / 无内衬末端接头

Fixed Male Fittings / 固定外螺纹接头

Fixed male fitting, BSP taper thread non-lined.

外螺纹接头,无内衬BSP圆锥螺纹。

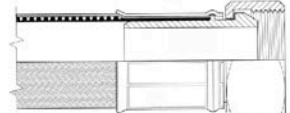


Nominal size : 1/2" - 2"
口径: 1/2" - 2"

Female Union Fittings / 内螺纹接头

60° cone seat female union fitting, BSP parallel thread non-lined.

60° 内螺纹接头,无内衬BSP平行螺纹。



Nominal size : 1/2" - 2"
口径: 1/2" - 2"



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