OROFLEX™ Bandama

Robust Extruded Rubber Lay Flat Hose



Specially Designed for Travelling Irrigators

Extremely Low Friction Loss

Superior Bend Radius and Kink Resistance

For Extreme UV and Ozone Conditions

Color:

● Black ribbed cover is the standard.





Applications:

Designed and recommended for travelling irrigators, lateral pivots, heavy duty dredge discharge, slurry, sludge and liquid manure pumping and any application where high resistance to abrasion is required.

Construction:

Made from circularly woven 100% high tenacity synthetic yarn, completely protected and locked-in by a tough, highly resistant synthetic nitrile rubber & PVC blend, extruded through the weave and forming a single homogenous construction without the use of glues or adhesives.

Lining Properties:

a. Ultimate Tensile Strength of the lining: Minimum guaranteed value of 1,500 psi (10,500 kPa).

b. Ultimate Elongation: 400% minimum.

c. Accelerated Aging Test:

The tensile strength and ultimate elongation of the vulcanized rubber compound have been tested with oxygen at a pressure of 300 psi +/- 10 psi (2100 kPa +/- 70 kPa), and a temperature of 70 degrees Celsius +/-1 degree (158 ºF +/- 18 ºF) for a period of 96 hours, after which the properties of the rubber are at least 60% of the original values.

Abrasion Resistance:

The OROFLEX BANDAMA hose will extend the lifetime of your application when under extreme conditions, where abrasion is the main concern. Abrasion resistance > 2000 cycles.

Service Temperature Range:

-4ºF (-20ºC) to 176ºF (80ºC)

Ozone Resistance:

No visible signs of cracking appear on the lining or cover when tested in accordance with ASTM D518 Procedure B, 100pphm/104ºF (40ºC).

Chemical Resistance:

Exposure to seawater and contamination by most chemical substances, hydrocarbons, oils, and greases has no effect on the short or long term performance of the hose. A chemical resistance chart is available and TIPSA will supply specific chemical resistance data when requested by the purchaser for unique applications.

Lengths:

Standard 330ft (100m) and 660ft (200m). Special lengths may be available upon request.

Couplings:

As requested by purchaser; Camlock, Bauer, Perrot, Victaulic, Storz, etc.

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tipsa Kuriyama Group

Physical Properties:

Series Number	Nom. Inner Diameter		Wall Thickness		Working Pressure		Burst Pressure		Tensile Strength		Nominal Weight		Bend Radius at WP	
	mm	inch	mm	inch	bar	psi	bar	psi	kg	lb	kg/m	lb/ft	m	ft
F552164A	65	2 ½	3.0	0.12	20	290	50	725	5,320	11,729	0.85	0.57	1.20	3.94
F550726A	76	3	3.1	0.12	18	260	45	650	8,380	18,475	1.00	0.67	1.25	4.10
F550748A	90	3 ½	3.3	0.13	16	230	40	580	9,300	20,503	1.15	0.77	1.30	4.27
F551285A	102	4	3.3	0.13	14	200	35	505	10,000	22,046	1.40	0.94	1.35	4.43
F553178A	105	4 ⅛	3.4	0.13	14	200	35	505	10,000	22,046	1.45	0.97	1.35	4.43
F551300A	115	4 ½	3.4	0.13	12	175	30	435	11,500	25,353	1.60	1.08	1.50	4.92
F551296A	127	5	3.5	0.14	12	175	30	435	12,320	27,161	1.80	1.21	1.60	5.25
F552211A	152	6	3.6	0.14	12	175	30	435	15,000	33,069	2.10	1.41	1.70	5.58

Series Number	Nom. Inner Diameter		Bend Radius											
			at 3 bar /43 psi		at 4 bar /58 psi		at 6 bar /87 psi		at 8 bar /116 psi		at 10 bar /145 psi		at 12 bar /174 psi		at 14 bar /203 psi	
	mm	inch	m	ft	m	ft	m	ft	m	ft	m	ft	m	ft	m	ft
F552164A	65	2 ½	0.69	2.25	0.84	2.74	0.96	3.13	1.00	3.28	1.05	3.44			1.10	3.61
F550726A	76	3	0.82	2.67	0.94	3.08	1.00	3.28	1.08	3.53	1.08	3.54			1.13	3.71
F550748A	90	3 ½	0.93	3.05	0.95	3.12	1.00	3.26	1.13	3.71	1.13	3.71			1.25	4.10
F551285A	102	4	0.97	3.17	1.09	3.58	1.20	3.94	1.25	4.10	1.33	4.36			1.35	4.43
F553178A	105	4 1/8	0.97	3.17	1.09	3.58	1.20	3.94	1.25	4.10	1.33	4.36			1.35	4.43
F551300A	115	4 ½	1.10	3.61	1.15	3.77	1.24	4.05	1.28	4.18	1.44	4.71	1.50	4.92		
F551296A	127	5	1.15	3.77	1.20	3.94	1.31	4.28	1.43	4.69	1.50	4.92	1.60	5.25		
F552211A	152	6	1.50	4.92	1.53	5.00	1.59	5.20	1.63	5.35	1.65	5.40	1.70	5.58		

The actual diameter of these hoses may differ slightly from the nominal diameter specified in this chart to make sure that they can be properly assembled with the couplings. For diameter tolerance questions please contact your distributor or directly to TIPSA.

* Hoses to be assembled with Camlock couplings

tipsa: reserves the right to modify any specification without prior notice to meet or exceed changing standards. Customers are advised that special diameters or construction characteristics can be produced upon special request. Contact your local dealer or TIPSA at: **tipsaex@tipsa.com**



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03Feb2021