



T0201-02-02-4





4020

Wellman 300 flexible rising main is designed as a permanent alternative to traditional materials such as steel, fiberglass, UPVC and polyethylene in water wells with electric submersible pumps. The Wellman riser has been in international markets for over 30 years and operating in numerous industrial locations.

The Wellman 300 is comparable to Boreman 300, but with potable water approvals and designed for potable applications.

KTW-BWGL



Primary Uses & Applications

- Groundwater extraction potable and brackish
- Water supply wells in RO desalination
- Food processing
- Irrigation & agriculture
- Mine de-watering
- Land stabilization
- Solar power systems
- Offshore rig firewater and service pumps
- Environmental monitoring

Features

- Superior hydraulic performance.
- Allows rapid installation and retrieval of the submersible pump.
- Small storage footprint compared to rigid pipe, allowing transportation by smaller vehicles, and requiring less manpower.
- Light weight and easy to deploy.
- Low longitudinal elongation.
- Low maintenance and no corrosion.
- Torque on pump start-up is accommodated without damage to the riser.

Construction

- A high tensile polyester reinforcement jacket enveloped by a highgrade polyurethane lining and cover material resistant to hydrocarbon fuels, many chemicals, ozone, UV, abrasion, and microbial attacks. The one-piece composite gives an excellent stability and removes any risk of delamination.
- The textile reinforcement is designed to swell under operating conditions up to 15%, reducing scale build-up. This feature gives a nominal increase in riser diameter, reducing friction loss, and improving hydraulic performance.

Properties

- Lengths up to 300 meters.
- Color options: Blue (standard).
- Couplings BSPT (standard) and NPT (optional).
- The textile reinforcement is designed to support the weight of the submersible pump, the column of water, the power cable, and the riser itself, with a minimum 2:1 safety factor.
- NSF/ANSI/CAN61, KTW-BWGL, AS/NZS 4020 and DVGW W270 drinking water certified.

Wellman 300

Article Number	-	WMS051	WMSo76	WMS102	WMS127	WMS152
Inner Diameter¹	mm	51	76	102	127	152
	Inch	2	3	4	5	6
Wall Thickness	mm	3.3	3.4	4.0	4.4	4.6
	Inch	0.13	0.13	0.16	0.17	0.18
Default Number of Straps	-	1	1	2	2	2
Maximum Pump Setting	m	300	300	300	300	300
	ft	1000	1000	1000	1000	1000
Burst Pressure	bar	62	62	62	58	60
	psi	900	900	900	840	870
Maximum Operating Pressure ²	bar	31	31	31	29	30
	psi	450	450	450	420	435
Effective Tensile Strength	kg	4600	8000	14000	20000	23000
	lbs	10150	17650	31000	44100	50700
Maximum Continuous End Load	kg	2300	4000	7000	10000	11500
	lbs	5070	8820	15430	22040	25350
Weight (hose only)	kg/m	0.7	1.0	1.6	2.0	2.5
	lbs/ft	0.5	0.7	1.1	1.3	1.7
Weight (standard coupling)	kg	1.4	3.4	6.3	11.3	15.6
	lbs	3.1	7.5	13.9	25.0	34.4
Mandals Coupling Outer Diameter	mm	80	115	145	177	200
	Inch	3.1	4.5	5.7	7.0	8.0
Maximum Extension under Load Conditions	%	+2				
Maximum Diameter Swell	%	+15				
Maximum Diameter Temperature	°C	- 40 to + 50. (with intermittent use up to 80)				
	°F	- 40 to +120 (with intermittent use up to 176)				
Water Quality		4 - 9 (Below 30 °C / 86 °F)				
	рН	5 - 9 (Above 30 °C / 86 °F)				
Velocity at Maximum Flow	m/s	2.4	3.0	3.0	4.2	4.5
	ft/s	8	10	10	14	15
Velocity Flow Rate at Maximum Pump Setting	L/s	8	18	41	78	105
	gpm	127	285	650	1238	1665

Note: ¹Tolerance range based on ISO1307 Type C. ²Values are for hose only; allowed working pressure can not exceed coupling pressure rating. For questions about chemical resistance please check mandals.com/support.