



FENDER-EDGE PneumaCell™

P50 (50kPa) Technical Specifications

FENDER-EDGE's PneumaCell™ is expertly designed and manufactured with superior quality, durable materials. We aim to fully unleash pneumatic fender's strength, ensuring it maintains excellent performance even under extreme operating conditions.



PneumaCell™ P50 (50kPa) Size and Performance Requirements

Nominal size		INTERNAL PRESSURE 50kPa at 60% deflection			Safety-valve pressure setting	Testing pressure
Diameter	Length	Energy absorption	Reaction force	Hull pressure		
mm	mm	kN·m	kN	kPa	kPa	kPa
500	1000	6	64	132	—	200
600	1000	8	74	126	—	200
700	1500	17	137	135	—	200
1000	1500	32	182	122	—	200
1000	2000	45	257	132	—	200
1200	2000	63	297	126	—	200
1350	2500	102	427	130	—	200
1500	3000	153	579	132	—	200
1700	3000	191	639	128	—	200
2000	3500	308	875	128	—	200
2500	4000	663	1381	137	175	250
2500	5500	943	2019	148	175	250
3000	6000	1309	2387	148	175	250
3300	4500	1175	1884	130	175	250
3300	6500	1814	3015	146	175	250
3300	10600	3067	5257	158	175	250
4500	9000	4752	5747	146	175	250
4500	12000	6473	7984	154	175	250



PneumaCell™ P50 (50kPa) Pressure Requirements

Nominal Size		Internal Pressure		Minimum Endurable Pressure		Safety-valve pressure setting	Testing pressure
Diameter	Length	at 0% deflection	at 60% deflection	at 0% deflection	at 60% deflection		at 0% deflection
mm	mm	kPa	kPa	kPa	kPa	kPa	kPa
500	1000	50	132	300	462	-	200
600	1000	50	126	300	441	-	200
700	1500	50	135	300	473	-	200
1000	1500	50	122	300	427	-	200
1000	2000	50	132	300	462	-	200
1200	2000	50	126	300	441	-	200
1350	2500	50	130	300	455	-	200
1500	3000	50	132	300	462	-	200
1700	3000	50	128	300	448	-	200
2000	3500	50	128	300	448	-	200
2500	4000	50	137	350	480	175	250
2500	5500	50	148	350	518	175	250
3300	4500	50	130	350	455	175	250
3300	6500	50	146	350	511	175	250
3300	10600	50	158	350	553	175	250
4500	9000	50	146	350	511	175	250
4500	12000	50	154	350	539	175	250



FENDER-EDGE PneumaCell™

P80 (80kPa) Technical Specifications

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PneumaCell™ P80 (80kPa) Size and Performance Requirements

Nominal size		INTERNAL PRESSURE 80kPa at 60% deflection			Safety-valve pressure setting	Testing pressure
Diameter	Length	Energy absorption	Reaction force	Hull pressure		
mm	mm	kN·m	kN	kPa	kPa	kPa
500	1000	8	85	174	—	250
600	1000	11	98	166	—	250
700	1500	24	180	177	—	250
1000	1500	45	239	160	—	250
1000	2000	63	338	174	—	250
1200	2000	88	390	166	—	250
1350	2500	142	561	170	—	250
1500	3000	214	761	174	—	250
1700	3000	287	840	168	—	250
2000	3500	430	1150	168	—	250
2500	4000	925	1815	180	230	300
2500	5500	1317	2653	195	230	300
3000	6000	1890	2906	196	230	300
3300	4500	1640	2476	171	230	300
3300	6500	2532	3961	191	230	300
3300	10600	4281	6907	208	230	300
4500	9000	6633	7551	192	230	300
4500	12000	9037	10490	202	230	300



PneumaCell™ P80 (80kPa) Pressure Requirements

Nominal Size		Internal Pressure		Minimum Endurable Pressure		Safety-valve pressure setting	Testing pressure
Diameter	Length	at 0% deflection	at 60% deflection	at 0% deflection	at 60% deflection		at 0% deflection
mm	mm	kPa	kPa	kPa	kPa	kPa	kPa
500	1000	80	174	480	609	-	250
600	1000	80	166	480	581	-	250
700	1500	80	177	480	620	-	250
1000	1500	80	160	480	560	-	250
1000	2000	80	174	480	609	-	250
1200	2000	80	166	480	581	-	250
1350	2500	80	170	480	595	-	250
1500	3000	80	174	480	609	-	250
1700	3000	80	168	480	588	-	250
2000	3500	80	168	480	588	-	250
2500	4000	80	180	560	630	230	300
2500	5500	80	195	560	683	230	300
3300	4500	80	171	560	599	230	300
3300	6500	80	191	560	669	230	300
3300	10600	80	208	560	728	230	300
4500	9000	80	192	560	672	230	300
4500	12000	80	202	560	707	230	300