

PX20-SERIES PU LINED BEND PIPE SPOOL



PacfloTech® PX20 Series Polyurethane Lined Bend Pipe Spools are specifically designed for high-wear applications where abrasive slurries, tailings, or other aggressive materials are conveyed through pipeline systems. It features a heavy-duty steel outer shell combined with a seamless, hot-bonded polyurethane internal liner, offering a durable and corrosion-resistant solution for demanding environments.

The polyurethane lining provides outstanding abrasion resistance, significantly reducing wear and extending the operational life of the pipe compared to unlined or rubber-lined alternatives. These spools are commonly used in mining, mineral processing, dredging, and industrial fluid transport systems, where they handle both solids and slurry with minimal internal turbulence.



TECHNICAL SPECIFICATIONS

Hose size	DN50 - 1500
Bend angle	12°, 22.5°, 30°, 45°, 60°, 90°, custom
Bend radius	1D, 1.5D, 3D, 5D, custom
Pipe Types	SMLS, ERW, LSAW, DSAW, SSAW, HSAW
End connections	Plain Swivel flange Fixed flange Grooved (roll or cut) Threaded
Flange types	AS2129, ASME B16.5, ASME B16.47, AWWA C207, AS4087, BS EN 1092, BS 3293, JIS B2220, SANS 1123, DIN ISO 7005, custom
Groove types	Victaulic AGS, AWWA C606, Custom
Thread types	BSP, NPT, API, custom
Optional extras	Nozzles Branches Wear monitor system I.D Tagging

MATERIAL SPECIFICATIONS

Inner Liner	Hot cast abrasion resistant polyurethane
Outer coating	Uncoated Zinc or zinc-aluminium primer Epoxy based Polyurethane based Custom
Pipe material	Carbon steel (all grades) Stainless steel (SS316, SS304)

TECHNICAL PROPERTIES

STANDARD PIPE SIZE					INTERNAL LINING THICKNESS			INTERNAL ID AFTER LINING			CENTERLINE RADIUS			
DN	NPS	OD	Wall	Unlined ID	Min Liner	Std Liner	Max Liner	Min Liner	Std Liner	Max Liner	1D	1.5D	3D	5D
	in	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
50	2	60.3	3.91	52.5	6	6	6	41	41	41	50	76	152	253
80	3	88.9	5.49	77.9	6	6	10	66	66	66	76	114	229	382
100	4	114.3	6.02	102.3	6	6	12	91	91	91	102	152	305	508
125	5	141.3	6.55	128.2	6	6	12	117	117	117	127	190	381	635
150	6	168.3	7.11	154.1	6	8	20	143	139	143	152	229	457	762
200	8	219.1	8.18	202.7	6	8	20	191	187	191	203	305	610	1017
250	10	273	9.27	254.5	6	8	20	243	239	243	254	381	762	1270
300	12	323.8	9.53	304.7	6	10	20	293	285	293	305	457	914	1523
350	14	355.6	9.53	336.5	6	10	20	325	317	325	356	533	1067	1778
400	16	406.4	9.53	387.3	8	12	20	372	364	376	406	610	1219	2032
450	18	457	9.53	437.9	8	12	20	422	414	426	457	686	1372	2285
500	20	508	9.53	488.9	8	14	20	473	461	477	508	762	1524	2540
550	22	559	9.53	539.9	8	14	20	524	512	528	559	838	1676	2795
600	24	610	9.53	590.9	8	16	20	575	559	579	610	914	1828	3050
650	26	660	9.53	640.9	10	16	20	621	609	629		991	1981	3300
700	28	711	9.53	691.9	10	16	20	672	660	680		1067	2134	3555
750	30	762	9.53	742.9	10	16	20	723	711	731		1143	2286	3810
800	32	813	9.53	793.9	10	16	20	774	762	782		1219	2438	4065
850	34	864	9.53	844.9	10	16	20	825	813	833		1295	2591	4320
900	36	914	9.53	894.9	12	16	20	871	863	883		1372	2743	4570
950	38	965	9.53	945.9	12	16	20	922	914	934		1448	2896	4825
1000	40	1016	9.53	996.9	16	16	20	965	914	985		1524	3048	5080
1050	42	1067	9.53	1047.9	16	16	20	1016	914	1036		1600	3200	5335
1100	44	1118	9.53	1098.9	16	16	20	1067	914	1087		1676	3353	5590
1150	46	1168	9.53	1148.9	16	16	20	1117	914	1137		1753	3505	5840
1200	48	1219	9.53	1199.9	16	16	30	1168	914	1188		1829	3658	6095
1300	52	1321	9.53	1301.9	16	16	30	1270	914	1290			3963	6605
1400	56	1422	9.53	1403.3	16	16	30	1372	914	1392			4266	7112
1500	60	1524	9.53	1504.9	16	16	30	1473	914	1493			4572	7620

Key notes

1. Spools can be fully customised to non-standard specifications