

**DESCRIPTION****A-PSP, A-263 – Permanent Seal Bore Packer**

Permanent Seal Bore high-performance and versatile retainer production packers are considered industry standards among permanent production packers, designed to withstand high differential pressure while the seal assembly is latched into the packers. The packer run with the adapter kit (wireline/hydraulic) and wireline pressure setting assembly/hydraulic setting tool based on required application. Hydraulic setting mechanism makes the Packer particularly suitable for use in highly deviated wells. Careful choice of materials for components, which are exposed to the well fluids, enables the packer to be used in a wide range of operating conditions. The Packer is equipped with two sets of upper and lower slips and cones which ensure effective pressure induced force distribution into the casing.

**FEATURES/ BENEFITS**

- Solid, slim-lined construction and a packing element system which resists swab-off. This permits a fast run-in, making significant rig-time savings possible (when compared with earlier models of permanent packers) without fear of impact damage or premature setting, yet packs off securely and permanently when the packer is set
- Two opposed sets of full-circle, full-strength slips ensure packer will remain properly set
- Packing element resists swab-off and packs off securely when packer is set
- Interlocked, expandable metal back-up rings contact the casing and create a positive barrier to packing element extrusion
- Setting requires no rotation or reciprocation, thereby eliminating the problems of spacing out, landing etc.
- The Packer is normally run with the adapter kit and wireline pressure setting assembly, the packer may be run with a hydraulic Setting Tool.
- Packer designed to withstand pressure differentials up to 10,000 psi
- Bottom guide furnished as standard, allowing the attachment of a seal bore extension, mill-out extension or other equipment below the packer.
- Fluid displacement is possible after well is flanged up and prior to setting the packer

**APPLICATIONS**

- High flow production wells.
- High pressure and temperature applications.
- High volume fracking applications.

Available in sizes for various casing sizes for their respective weight ranges with varying standard or exotic material and elastomers including seal system based on compatibility with the well environment and application requirement. In addition, packers are furnished with required all accessories e.g. locator tubing seal assembly, anchor latch tubing seal assembly, seal bore extensions, mill-out extension etc. with different end connections (Standard API EUE or NUE or premium), to meet customer's requirements.

**Also available in dual bore and large bore versions for different casing sizes ranges.**



## SPECIFICATION GUIDE

Casing			Packer				Seal Assembly			
OD		Weight lb/ft	Size	Max OD		Diameter of Sealing Bore		Size	Min Bore Thru Seals	
in.	mm			in.	mm	in.	mm		in.	mm
4-1/2	114.3	17.0-18.9	19-25	3.475	88.2	2.500	63.5	20-25	1.865	47.3
		15.1-17.0	21-25	3.562	90.4			21-19	1.312	33.3
		11.6-15.1	22-19	3.593	91.2	1.968	49.9	20/40-19	.984	24.9
		10.5-13.5	23-26	3.750	95.2	2.688	68.2	40/80-26	1.968	49.9
		9.5-11.6	24-19	3.812	96.8	1.968	49.9	41/81-26	1.750	44.4
5	127.0	18-21.4	32-26			2.688	68.2	40/80-26	1.968	49.9
			32-25	3.968	100.7	2.500	63.5	41/81-26	1.750	44.4
			32-19			1.968	49.9	20-25	1.865	47.3
		11.5-13	34-26	4.250	107.9	2.688	68.2	21-19	1.312	33.3
			34-25			2.500	63.5	20/40-19	.984	24.9
5-1/2	139.7	23-26.8	34-19	4.250	107.9	1.968	49.9	21-19	1.312	33.3
						2.0/40-19	.984	24.9	40/80-26	1.968
		20-23	42-26	4.328	109.9	2.688	68.2	41/81-26	1.750	44.4
			42-19			1.968	49.9	21-19	1.312	33.3
		14-17	44-26			2.688	68.2	40/80-26	1.968	49.9
44-19	4.500		114.3	1.968	49.9	41/81-26	1.750	44.4		
				2.0/40-19	.984	24.9	21-19	1.312	33.3	
6-5/8	168.2	24-32	81-32	5.350	135.8			60/80-32	2.406	61.1
						3.250	82.5	61/81-32	1.990	50.5
		20-32	82-32	5.468	138.8			60/80-32	2.406	61.1
			82-26			2.688	68.2	40/80-26	1.968	49.9
		20	84-32			3.250	82.5	60/80-32	2.406	61.1
84-26	5.687		144.4	2.688	68.2	61/81-32	1.990	50.5		
				40/80-26	1.968	49.9	41/81-26	1.750	44.4	
7	177.8	53.60-57.10	64-30	4.937	125.40	3.000	76.2	42/62-30	2.375	60.3
						40/60-30	1.970	50.0	60/80-32	2.406
		38-46.4	81-32	5.350	135.8			61/81-32	1.990	50.5
						3.250	82.5	60/80-32	2.406	61.1
		32-42.7	82-32					61/81-32	1.990	50.5
			82-26	5.468	138.8	2.688	68.2	40/80-26	1.968	49.9
		23-32	84-32			3.250	82.5	60/80-32	2.406	61.1
			84-26	5.687	144.4	2.688	68.2	61/81-32	1.990	50.5
		20-29	86-32	5.875	149.2	3.250	82.5	40/80-26	1.968	49.9
						3.250	82.5	61/81-32	1.990	50.5
		17-20	88-32			3.250	82.5	60/80-32	2.406	61.1
			88-26	6.187	157.1	2.688	68.2	61/81-32	1.990	50.5
7-5/8	193.6	45.3-51.2	86-32	5.875	149.2	3.250	82.5	40/80-26	1.968	49.9
						3.250	82.5	61/81-32	1.990	50.5
		33.7-39	88-32			3.250	82.5	60/80-32	2.406	61.1
			88-26	6.187	157.1	2.688	68.2	61/81-32	1.990	50.5
		24-33.7	92-32			3.250	82.5	40/80-26	1.968	49.9
92-26	6.375		161.9	2.688	68.2	41/81-26	1.750	44.4		
7-3/4	196.9	46.1-48.6	88-32			3.250	82.5	60/80-32	2.406	61.1
			88-26	6.187	157.1	2.688	68.2	61/81-32	1.990	50.5
					40/80-26	1.968	49.9	41/81-26	1.750	44.4

Casing			Packer				Seal Assembly			
OD		Weight lb/ft	Size s	Max OD		Diameter of Sealing Bore		Size	Min Bore Thru Seals	
in.	mm			in.	mm	in.	mm		in.	mm
8-5/8	219.0	36-49	126-38	7.125	180.9	3.875	98.4	120-38	2.468	62.6
			126-40			4.000	101.6	80-40	2.985	75.8
		24-36	128-38	7.500	190.5	3.875	98.4	120-38	2.468	62.6
			128-40			4.000	101.6	80-40	2.985	75.8
9-5/8	244.4	36-53.5	194-47	8.125	206.3	4.750	120.6	192-47	3.875	98.4
			194-44			4.000	101.6	190-47	3.000	76.2
			194-40			3.250	82.5	191-47	2.500	63.5
			194-32			3.250	82.5	60/80-32	2.406	61.1
9-7/8	250.1	62.8	194-47	8.125	206.3	4.750	120.6	192-47	3.875	98.4
			194-40			4.000	101.6	190-47	3.000	76.2
			194-32			3.250	82.5	191-47	2.500	63.5
			194-32			3.250	82.5	60/80-32	2.406	61.1
10-3/4	273.0	60.7-79.2	212-47	9.000	228.6	4.750	120.6	190-47	3.000	76.2
			212-32			3.250	82.5	191-47 or 192-47	2.500	63.5
			214-47	9.437	239.7	4.750	120.6	80-32 or 81-32	2.406	61.1
			214-32			3.250	82.5	190-47	3.000	76.2
11-3/4	298.4	42-60	220-47	10.437	265.1	4.750	120.6	191-47 or 192-47	2.500	63.5
			220-32			3.250	82.5	192-47	3.875	98.4
			220-32			3.250	82.5	80-32 or 81-32	2.406	61.1
			220-32			3.250	82.5	190-47	3.000	76.2
13-3/8	339.7	61-102	230-60			6.000	152.4	190-60	4.875	123.8
			230-47	11.562	293.6	4.750	120.6	190-47 or 192-47	2.500	63.5
			230-32			3.250	82.5	191-47 or 192-47	3.875	98.4
			230-32			3.250	82.5	80-32 or 81-32	2.406	61.1
			240-60			6.000	152.4	190-60	4.875	123.8
			240-47	12.000	304.8	4.750	120.6	190-47 or 192-47	2.500	63.5
13-3/8	339.7	48-72	240-47			4.750	120.6	191-47 or 192-47	3.875	98.4
			240-32			3.250	82.5	80-32 or 81-32	2.406	61.1
			240-32			3.250	82.5	190-47	3.000	76.2
			240-32			3.250	82.5	191-47 or 192-47	3.875	98.4

Additional sizes with weight ranges are available as required.

### SPECIFICATION GUIDE (Dual Seal bore)

Casing			Packer												
			OD		Size	Upper Sealing Bore					Lower Sealing Bore				
Size		Seal Bore				Seal Assembly Size	Min Bore Thru Seals		Seal Bore		Seal Assembly Size	Min Bore Thru Seals			
in.	mm	lb/ft	in.	mm	in.		mm	in.	mm	in.		mm	in.	mm	in.
4-1/2	114.3	11.6–15.1	3.593	91.2	22-25 x 19	2.500	63.5	20-25	1.875	47.6	1.968	49.9	21–19 or 20/40–19	1.312 or 0.984	33.3 or 24.9
		9.5–11.6	3.812	96.8	24-25 x 19										
5-1/2	139.7	20–23	4.328	109.9	42-32 x 26	3.250	82.5	40-32	2.500	63.5	2.688	68.2	40/80–26	1.968	49.9
		14–17	4.500	114.3	44-32 x 26										
6-5/8	168.2	20–32	5.468	138.8	82-40 x 32	4.000	101.6	80-40	3.250	82.5	3.250	82.5	60/80–32 or 61/81–32	2.406 or 1.990	61.1 or 50.5
		20	5.687	144.4	84-40 x 32										
7	177.8	53.6–57.1	4.937	125.4	64-36 x 30	3.625	92.0	60-36 or 61-36	3.000 or 2.875	76.2 or 73.0	3.000	76.2	42/62–30 or 40/60–30	2.375 or 1.968	60.3 or 49.9
		32–42.7	5.468	138.8	82-40 x 32	4.000	101.6	80-40	3.250	82.5	3.250	82.5	60/80–32 or 61/81–32	2.406 or 1.990	61.1 or 50.5
		23–32	5.687	144.4	84-40 x 32										
		17–20	6.187	157.1	88-40 x 32										
7-5/8	193.6	33.7–39	6.187	157.1	88-40 x 32	4.000	101.6	80-40	3.250	82.5	3.250	82.5	60/80–32 or 61/81–32	2.406 or 1.990	61.1 or 50.5
		24–33.7	6.375	161.9	92-40 x 32										
7-3/4	196.9	46.1–48.6	6.187	157.1	88-40 x 32	4.000	101.6	80-40	3.250	82.5	3.250	82.5	60/80–32 or 61/81–32	2.406 or 1.990	61.1 or 50.5
8-5/8	219.0	36–49	7.125	180.9	126-47 x 38	4.750	120.6	82-47 or 81-47	4.000 or 3.875	101.6 or 98.4	3.875	98.4	120–38	2.468	82.5
		24–36	7.500	190.5	128-47 x 38										
9-5/8	244.4	36–53.5	8.125	206.3	194-60 x 47	6.000	152.4	190-60	4.875	123.8	4.750	120.6	192–47	3.875	98.4
													190–47	3.000	76.2
													191–47	2.500	63.5
9-7/8	250.1	62.8	8.125	206.3	194-60 x 47	6.000	152.4	190-60	4.875	123.8	4.750	120.6	192–47	3.875	98.4
													190–47	3.000	76.2
													191–47	2.500	63.5

Additional sizes with weight ranges are available as required.