



Packers for Multiple Completions

Hydroset Packers

TIW D-2, D-3 and D-4 Hydroset Packers bring the same advantages to multiple completions that the HD-1 Packer brings to single completions. They are set after the wellhead is installed, and clean fluids are circulated in the casing-tubing annulus, thus maintaining control of the well at all times. TIW Hydroset Packers set hydraulically, hold their set mechanically and release without rotation. TIW Hydroset Packers can be run and set in tandem for multiple selective completions.

TIW D-2 Packers are available in both first string set and second string set versions.

TIW Double-Seal Packer

The TIW Double-Seal Packer is a dual-string packer designed to set easily with hydraulic pressure. It can hold high differential pressures from above or below due to its dual-directional slip design. Releasing this Packer is easily accomplished by application of tension to the long string sufficient to break a "shear wire." When the packer is used in tandem, they can be used as an upper or lower packer since there is no movement of tubing during the setting sequence. A variety of seal nipples are available for running strings individually or threaded top connections for running strings simultaneously.

D-2 Hydroset Packer Specifications

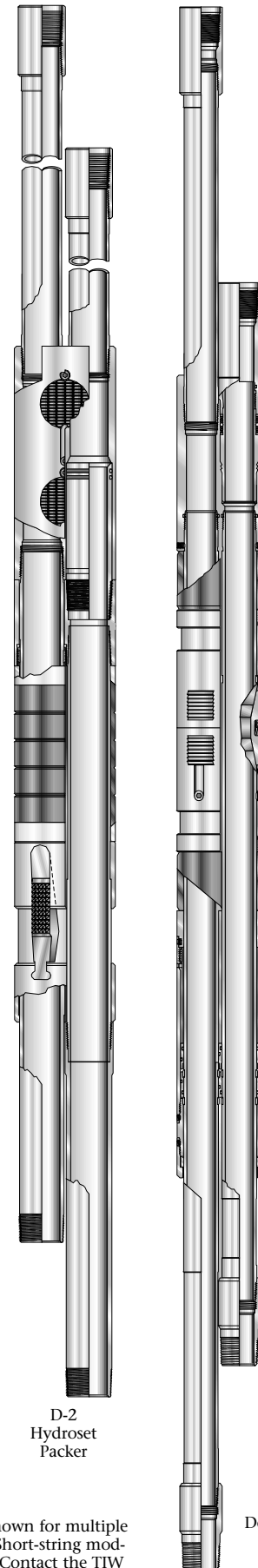
CASING SIZE			NOMINAL TUBING SIZE		MINIMUM I.D. TUBING W/STINGER INST.				MAXIMUM TOOL BODY O.D.	
O.D.	WEIGHT RANGE		RUNNING STRING	SECOND STRING	RUNNING IN STRING	SECOND STRING	RUNNING IN STRING	SECOND STRING	TOOL BODY O.D.	
In. Mm.	Lb./Ft.	Kg./M.	In. Mm.	In. Mm.	In. Mm.	In. Mm.	In. Mm.	In. Mm.	In.	Mm.
5½	139.7	14.0-17.0	20.8-25.3	1½ 38.1	1½ 38.1	1½ 38.1	1½ 38.1	1½ 38.1	4½	119.1
5½	139.7	17.0-20.0	25.3-29.8	1½ 38.1	1½ 38.1	1½ 38.1	1½ 38.1	1½ 38.1	4½	117.5
5½	139.7	14.0-17.0	20.8-25.3	2½ 52.4	2½ 52.4	1¾ 44.5	1¾ 44.5	1¾ 28.6	4½	119.1
5½	139.7	17.0-20.0	25.3-29.8	2½ 52.4	2½ 52.4	1¾ 44.5	1¾ 44.5	1¾ 28.6	4½	117.5
7	177.8	20.0-26.0	29.8-38.7	2 50.8	2 50.8	1½ 49.2	1½ 49.2	1½ 49.2	6½	154.0
7	177.8	23.0-29.0	34.2-43.2	2 50.8	2 50.8	1½ 49.2	1½ 49.2	1½ 49.2	6	152.4
7	177.8	26.0-32.0	38.7-47.6	2 50.8	2 50.8	1½ 49.2	1½ 49.2	1½ 49.2	5¾	150.0
7¾	193.7	20.0-26.4	29.8-39.3	2½ 63.5	2 50.8	2½ 61.9	1½ 49.2	1½ 49.2	6¾	172.2
7¾	193.7	26.4-33.7	39.3-50.2	2½ 63.5	2 50.8	2½ 61.9	1½ 49.2	1½ 49.2	6¾	167.1
7¾	193.7	33.7-39.0	50.2-58.1	2½ 63.5	2 50.8	2½ 61.9	1½ 49.2	1½ 49.2	6½	163.5
9	244.5	36.0-43.5	53.6-64.7	3 76.2	3 76.2	3 76.2	3 76.2	3 76.2	8½	215.1
9	244.5	40.0-47.0	59.5-69.9	3 76.2	3 76.2	3 76.2	3 76.2	3 76.2	8¾	212.7
9	244.5	43.5-53.5	64.7-79.6	3 76.2	3 76.2	3 76.2	3 76.2	3 76.2	8¼	209.6

Note: Popular sizes shown for multiple completion packers. Short-string models are also available. Contact the TIW engineering department for additional product specifications.

DS Packer Specifications

CASING SIZE			NOMINAL TUBING SIZE		MINIMUM I.D. TUBING W/STINGER INST.				MAXIMUM TOOL BODY O.D.	
O.D.	WEIGHT RANGE		RUNNING STRING	SECOND STRING	RUNNING IN STRING	SECOND STRING	RUNNING IN STRING	SECOND STRING	TOOL BODY O.D.	
In. Mm.	Lb./Ft.	Kg./M.	In. Mm.	In. Mm.	In. Mm.	In. Mm.	In. Mm.	In. Mm.	In.	Mm.
4½	114.3	9.5-11.6	14.1-17.3	1¼ 31.8	1¼ 31.8	1¾ 34.9	1 25.4	3¾	97.6	97.6
5	127.0	11.5-15.0	17.1-22.3	1½ 38.1	1¼ 31.8	1½ 38.1	1¼ 31.8	4¾	107.2	107.2
5½	139.7	14.0-17.0	20.8-25.3	1½ 38.1	1½ 38.1	1½ 38.1	1½ 38.1	4½	119.1	119.1
5½	139.7	17.0-20.0	25.3-29.8	1½ 38.1	1½ 38.1	1½ 38.1	1½ 38.1	4½	117.5	117.5
5½	139.7	14.0-17.0	20.8-25.3	2 50.8	1 25.4	1½ 49.2	1½ 28.6	4½	119.1	119.1
5½	139.7	17.0-20.0	25.3-29.8	2 50.8	1 25.4	1½ 49.2	1½ 28.6	4½	117.5	117.5
5½	139.7	14.0-17.0	20.8-25.3	2½ 52.4	1½ 38.1	1¾ 44.5	1½ 28.6	4½	119.1	119.1
5½	139.7	17.0-20.0	25.3-29.8	2½ 52.4	1½ 38.1	1¾ 44.5	1½ 28.6	4½	117.5	117.5
5½	139.7	17.0-23.0	25.3-34.2	2½ 52.4	2½ 52.4	1¾ 44.5	1½ 28.6	4½	113.5	113.5
7	177.8	20.0-26.0	29.8-38.7	2 50.8	2 50.8	2 50.8	1½ 47.6	6½	154.0	154.0
7	177.8	26.0-32.0	38.7-47.6	2 50.8	2 50.8	2 50.8	1½ 47.6	5¾	150.0	150.0
7	177.8	20.0-26.0	29.8-38.7	2½ 63.5	1½ 38.1	2½ 63.5	1¾ 39.7	6½	154.0	154.0
7	177.8	26.0-32.0	38.7-47.6	2½ 63.5	1½ 38.1	2½ 63.5	1¾ 39.7	5¾	150.0	150.0
7¾	193.7	20.0-26.4	29.8-39.3	2½ 63.5	2 50.8	2½ 63.5	2 50.8	6¾	172.2	172.2
7¾	193.7	26.4-33.7	39.3-50.2	2½ 63.5	2 50.8	2½ 63.5	2 50.8	6¾	167.1	167.1
7¾	193.7	33.7-39.0	50.2-58.1	2½ 63.5	2 50.8	2½ 63.5	2 50.8	6½	163.5	163.5
9	244.5	36.0-43.5	53.6-64.7	3 76.2	3 76.2	3 76.2	2¾	8½	215.1	215.1
9	244.5	40.0-47.0	59.5-69.9	3 76.2	3 76.2	3 76.2	2¾	8¾	212.7	212.7
9	244.5	43.5-53.5	64.7-79.6	3 76.2	3 76.2	3 76.2	2¾	8¼	209.6	209.6

Note: Popular sizes shown for multiple completion packers. Short-string models are also available. Contact the TIW engineering department for additional product specifications.



D-2 Hydroset Packer

Double-Seal Packer