



Arrowset I-X, I-X 10K, and I-X HP Mechanical Packers

Weatherford's Arrowset I-X, I-X 10K, and I-X HP mechanical packers are versatile, field-proven retrievable double-grip packers for most production, stimulation, and injection. The packers can be set with tension or compression.

A large internal bypass reduces the swabbing effect during run-in and retrieval and closes securely when the packer is set. During release, the bypass is opened to equalize the pressure before the upper slips are released. A patented upper-slip releasing system reduces the force required to release the packer. A nondirectional slip is released first, making it easier to release the other slips.

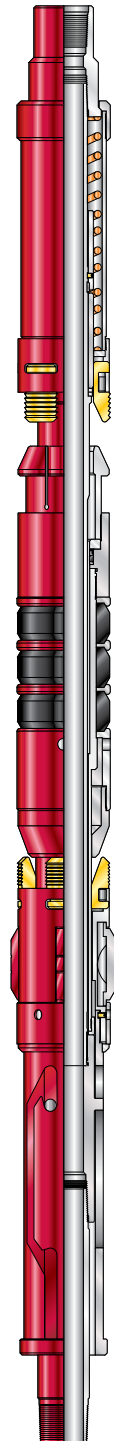
The I-X 10K packer has all the features of the I-X packer and can withstand 10,000 psi (69 MPa) of differential pressure above or below. The I-X HP packer can withstand 7,500 psi (52 MPa) of differential pressure above or below.

Applications

- Production
- Pumping
- Injection
- Fiberglass tubing
- Zonal isolation

Features, Advantages and Benefits

- The design holds high differential pressure from above or below, enabling the packer to meet most production, stimulation, and injection needs.
- The packer can be set with compression, tension, or wireline, enabling deployment in shallow and deep applications.
- The packer can be set and released with only a one-quarter turn of the tubing.
- The bypass valve is below the upper slips so that debris is washed from the slips when the valve is opened, reducing the times for circulation and total retrieval.
- The full opening enables unrestricted flow and the passage of wireline tools and other packer systems.
- The packer can be run with Weatherford's T-2 on-off tool, which enables the tubing to be disconnected and retrieved without retrieving the packer.





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Specifications

Casing				Packer					
OD (in./mm)	Weight (lb/ft, kg/m)	ID (in./mm)		Maximum OD (in./mm)	Minimum ID (in./mm)	Standard Thread Connection (in.)	1-X 10K and I-X HP	Wireline Set	1-X
		Minimum	Maximum						
2-7/8 73.0	6.40 to 6.50 9.52 to 9.67	2.376 60.33	2.441 62.00	2.250 57.15	0.625 15.88	1.05 EU ¹ 10 RD ²	—	—	603-25
3-1/2 88.9	7.70 to 10.20 11.46 to 15.18	2.922 74.22	3.068 77.93	2.781 70.64	1.250 31.75	1.90 NUE ³ 10 RD	—	—	603-30
4 101.6	9.50 to 11.00 14.14 to 16.37	3.476 88.29	3.548 90.12	3.250 82.55	1.500 38.10	1.90 NUE 10 RD	—	—	603-40
4-1/2 114.3	9.50 to 13.50 14.14 to 20.09	3.920 99.57	4.090 103.89	3.750 95.25	1.938 49.23	2-3/8 EUE ⁴ 8 RD	603-45-H	603-45-HWS	603-45
	13.50 to 15.10 20.09 to 22.47	3.826 97.18	3.920 99.57	3.680 93.47			603-46-H	603-46-HWLS	603-46
5 127.0	11.50 to 15.00 17.11 to 22.32	4.408 111.96	4.560 115.82	4.125 104.78	1.938 49.23	2-3/8 EUE 8 RD	603-50-H	603-50-HWLS	603-50
	18.00 to 20.80 26.79 to 30.95	4.156 105.56	4.276 108.61	4.000 101.60			603-52-H	603-52-HWLS	603-52
5-1/2 139.7	13.00 to 17.00 19.35 to 25.30	4.892 124.26	5.044 128.12	4.625 117.48	1.938 49.23	2-3/8 EUE 8 RD	603-55-H	—	603-55
	14.00 to 20.00 20.83 to 29.76	4.882 124.00	5.991 152.17					2.000 50.80	603-55-HWLS
	20.00 to 23.00 29.76 to 34.23	4.670 118.62	4.778 121.36	4.500 114.30	1.938 49.23		603-57-H	603-57-HWLS	603-57
	9.00 to 13.00 13.39 to 19.35	5.044 128.12	5.192 131.88	4.875 123.83	2.375 60.33	2-7/8 EUE 8 RD	—		603-62
	13.00 to 14.00 19.35 to 20.83	5.012 127.30	5.044 128.12	4.500 114.30			603-58-H	—	603-58
	15.50 to 17.00 23.07 to 25.30	4.778 121.36	4.950 125.73	4.750 120.65			—		603-56
	20.00 to 23.00 29.76 to 34.23	4.670 118.62	4.778 121.36	4.500 114.30			603-56-H	603-56-HWLS	603-56
				603-59-H			603-5-HWLS	603-59	
6-5/8 168.3	20.00 to 24.00 29.76 to 35.72	5.921 150.39	6.094 154.79	5.750 146.05	2.500 63.50	3-1/2 EU 8 RD	—	—	603-68

¹External upset

²Round

³Nonupset end

⁴External upset end



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		Minimum	Maximum							
7 177.8	17.00 to 26.00 25.30 to 38.69	6.276 159.41	6.538 166.07	6.000 152.40	2.485 63.12	2-7/8 EUE 8 RD	603-72-H	603-70-WLS-HT	603-72	
	26.00 to 32.00 38.69 to 47.62	6.094 154.79	6.004 152.50	6.276 159.41			—		603-70-H	—
	26.00 to 35.00 38.69 to 52.09			5.875 149.23	2.411 61.24		3-1/2 EU 8 RD	—		
	29.00 to 35.00 43.16 to 52.09	5.875 149.23	6.184 157.07	5.813 147.65	2.485 63.12	3.000 76.20			603-74	
	17.00 to 26.00 25.30 to 38.69	6.276 159.41	6.538 166.07	6.000 152.40	2.485 63.12				2-7/8 EUE 8 RD	—
	26.00 to 35.00 38.69 to 52.09	6.004 152.50	6.276 159.41	5.875 149.23		3.000 76.20	3-1/2 EU 8 RD	—		
7-5/8 193.7	24.00 to 29.70 35.72 to 44.20	6.875 174.63	7.025 178.44	6.679 169.65	2.485 63.12				2-7/8 EUE 8 RD	—
	33.70 to 39.00 50.15 to 58.04	6.625 168.28	6.765 171.83	6.453 163.91		603-75-010 ⁵	—	603-75		
	24.00 to 29.70 35.72 to 44.20	6.875 174.63	7.025 178.44	6.672 169.47	3.000 76.20	3-1/2 EU 8 RD	—	—	603-78	
	33.70 to 39.00 50.15 to 58.04	6.625 168.28	6.766 171.86	6.453 163.91					2.938 74.63	3-1/2 EU 8 RD
8-5/8 219.1	24.00 to 28.00 35.72 to 41.67	8.017 203.63	8.097 205.66	7.750 196.85	2.938 74.63	3-1/2 EU 8 RD	—	—		
	28.00 to 40.00 41.67 to 59.53	7.725 196.22	8.017 203.63	7.531 191.29					4.000 101.60	4-1/2 EUE 8 RD
	24.00 to 28.00 35.72 to 41.67	8.017 203.63	8.097 205.66	7.750 196.85	4.000 101.60	4-1/2 EUE 8 RD	—	—		
	32.00 to 40.00 47.62 to 59.53	7.725 196.22	7.921 201.19	7.500 190.50					4.000 101.60	4-1/2 EUE 8 RD

⁵The 7 5/8- through 9 5/8-in. (193.7- through 244.5-mm) sizes are rated to a 7,500-psi (52-MPa) differential.



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Specifications (continued)

Casing				Packer					
OD (in./mm)	Weight (lb/ft, kg/m)	ID (in./mm)		Maximum OD (in./mm)	Minimum ID (in./mm)	Standard Thread Connection (in.)	1-X 10K and I-X HP	Wireline Set	1-X
		Minimum	Maximum						
9-5/8 244.5	43.50 to 53.50 64.74 to 79.62	8.535 216.79	8.755 222.38	8.265 209.93	3.894 98.91	3-1/2 EU 8 RD	603-95-H02	—	603-95
	32.30 to 43.50 48.07 to 64.74	8.755 222.38	9.001 228.63	8.500 215.90		4-1/2 EUE 8 RD	603-96-H ⁵		603-96
	43.50 to 53.50 64.74 to 79.62	8.535 216.79	8.755 222.38	8.265 209.93			603-95-HP ⁵ 603-95-H01		603-95
10-3/4 273.1	32.75 to 45.50 48.74 to 67.71	9.950 252.73	10.192 258.88	9.687 246.05	4.000 101.60	4-1/2 EUE 8 RD	—	—	603-10
13-3/8 339.7	48.00 to 72.00 71.43 to 107.15	12.347 313.61	12.716 322.99	12.000 304.80	4.000 101.60	4-1/2 EUE 8 RD	—	—	603-13

⁵The 7 5/8- through 9 5/8-in. (193.7- through 244.5-mm) sizes are rated to a 7,500-psi (52-MPa) differential.

Options

- Elastomer options are available for hostile environments.
- Optional safety releases are available.