

## G-6 Packer

G-6 packer is a double-grip, retrievable, single-string packer designed for service in water-flooding and enhanced oil recovery. Because many of these wells are shallow, the packer was designed to allow the packing elements to be packed off with either tubing tension or compression at the packer. The double-grip feature allows the option of leaving tubing in compression or tension and makes the packer suitable for use with accessories such as on-off tools, downhole shut-off valves, and other related completion tools.

### Applications

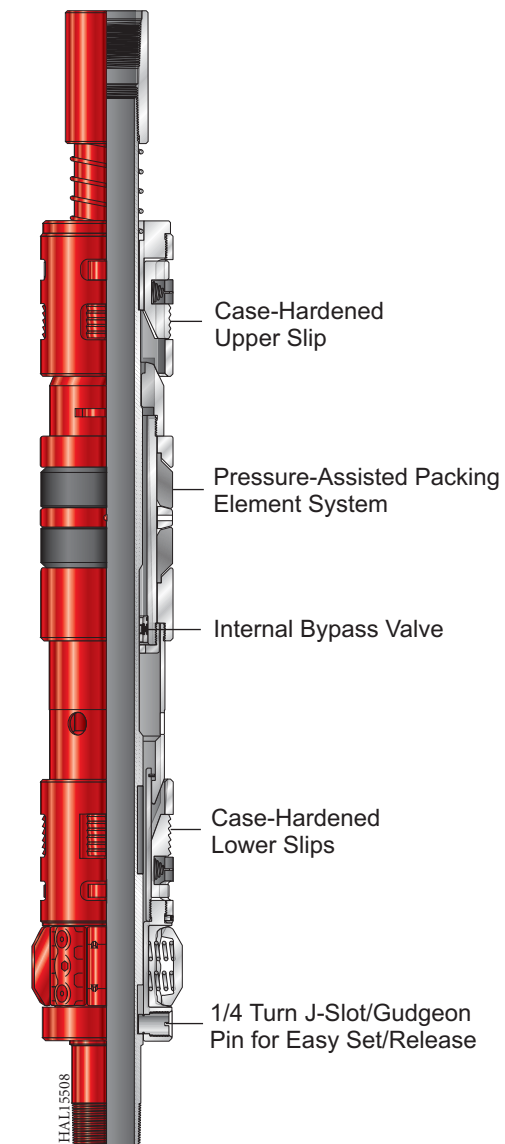
- Ideally suited for enhanced oil recovery projects
- CO<sub>2</sub> and steam injection service with specific elastomer systems
- Up to 5,000 psi (34.45 MPa) differential pressure typical

### Features

- Short compact length
- Compatible with plastic coating, sour service trim, or special flow wet metallurgy
- Internal bypass valve provides reliable running, releasing, and retrieving
- Innovative packing element system for positive pressure-enhanced pack-off
- Opposing slip design holds forces from either direction while loaded slip remains on the low pressure side of the tool
- Emergency shear release
- Take-up feature allows pressure differential to increase and lock in added rubber compression

### Benefits

- Requires only 1/4 turn of the tubing at the packer to set or release
- Tension or compression packs off the rubber system
- Tubing can be spaced out in tension, neutral, or compression
- Field-redressable
- May be run with a variety of completion accessories



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## Operation

G-6 packer is set by lowering the tubing to the setting depth. The tubing is picked up to allow for the setting stroke (8 in.) plus the desired tubing load. One-quarter turn right-hand rotation of the tubing at the packer with set down motion sets both slip systems. The packing elements can then be packed off with either compression or tension at the packer.

The packer is retrieved by applying 1/4 turn right-hand rotation of the tubing at the packer and picking up. Opening of the internal bypass valve allows pressure to equalize across the packer. Continued upward movement will release the packer and automatically re-J the tool into the running position. In the event that the tool cannot be unset conventionally, a safety shear system is provided for emergency release.

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Casing Size		Casing Weight		Packer OD		Minimum ID		Tubing Size	
in.	mm	lb/ft	kg/m	in.	mm	in.	mm	in.	mm
4	101.60	9.25-11.6	13.77-17.26	3.295	83.69	1.545	39.24	1.90	48.26
4 1/2	114.30	9.5-13.5	14.14-20.09	3.75	98.17	1.94	49.22	2 3/8	60.33
5	127.00	11.5-15	17.11-22.32	4.25	107.95	1.94	49.22	2 3/8	60.33
		15-18	22.32-26.79	4.13	104.78				
5 1/2	139.70	13-15.5	19.35-23.07	4.75	120.65	1.94 or 2.44	49.22 or 61.93	2 3/8 or 2 7/8	60.33 or 73.03
		17-20	25.30-29.76	4.63	117.48				
		20-23	29.76-34.22	4.50	114.30				
5 3/4	146.10	17-20	25.30-29.76	4.85	123.19	1.94	49.22	2 3/8	60.33
6 5/8	168.30	17-24	25.30-35.72	5.69	144.45	2.50	63.50	2 7/8	73.03
		26-32	38.67-47.62	5.50	139.70				
7	177.80	17-20	25.30-29.76	6.13	155.58	1.94 or 2.50 or 3.00	49.22 or 63.50 or 76.20	2 3/8 or 2 7/8 or 3 1/2	60.33 or 73.03 or 88.90
		22-26	32.74-38.69	6.00	152.40				
		28-32	41.67-47.62	5.88	149.23				
7 5/8	193.70	20-26.4	29.76-39.29	6.69	169.88	2.50	63.50	2 7/8	73.03
		29.7-39	44.20-58.04	6.44	163.53				
8 5/8	209.10	28-36	41.67-53.57	7.56	192.10	3.00	76.20	3 1/2	88.90
		40-49	59.53-72.92	7.38	190.50				
9 5/8	244.50	32.3-40	48.07-59.53	8.50	215.90	4.00	101.60	4 1/2	114.30
		43.5-47	64.74-69.94	8.38	212.72				
		53.5	79.62	8.25	209.55				

### Ordering Information

**Specify:** casing size and weight; tubing size; weight; grade; and thread; service environment (standard, %H<sub>2</sub>S, %CO<sub>2</sub>, amines/other chemicals, chloride content, pressures, temperatures, etc.); maximum differential pressure requirement.

**Part Number Prefix:** 12GF, D

