



Manufacturer of Inflatable Packers, Flow Control Valves, Pitless Units and other products for investigating, controlling and producing the EARTH'S FLUIDS.™

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SPECIFICATION SHEET:

Fracker™ Model FR-4.1

Sliding-Head Type Packer (USA Pat. No. 4,455,027)

Dimensions and Confined/Unconfined Test Pressures:

Uninflated O.D., max.	4.1"	104 mm
Largest recommended hole size	6.5"	165 mm
Approximate mandrel pipe O.D.	2.0"	51 mm
Approximate mandrel pipe I.D.	1.25"	32 mm
Uninflated element length, min.	45"	1,143 mm
Tested unconfined to	1,500 psi	103 bar
Tested confined in a 6" I.D. pipe to	3,000 psi	207 bar

Differential Pressure Rating (DPR): in single packer applications, for specific hole sizes

Inside diameter of casing or borehole		Pressure to stretch rubber element		Maximum borehole differential pressure rating		Maximum inflation pressure over the packer submergence	
<u>inches</u>	<u>mm</u>	<u>psi</u>	<u>bar</u>	<u>psi</u>	<u>bar</u>	<u>psi</u>	<u>bar</u>
4.5	114	55	4	3,000	207	3,500	241
5.0	127	80	5	3,000	207	3,500	241
5.5	140	110	7	2,500	172	3,000	207
6.0	152	155	11	2,000	138	2,500	172
6.5	165	260	18	1,500	103	2,000	138

Please call factory for DPR in straddle packer applications.

Construction and Materials:

Element	Construction	Fully-reinforced (reinforcing the entire length of element)
	Materials	Kevlar (DuPont) reinforced natural rubber, with outer covering of natural rubber
Heads	Connection to ends	12" (305 mm) high strength steel Continuous Crimp Collar
	Top	Stainless steel, with 1/4" (6 mm) NPT inflation ports
Mandrel	Bottom	Stainless steel, with Dirt Wiper™ and 1/4" (6 mm) NPT inflation port
	Pipe	2.00" (51 mm) O.D., 3/8" (9 mm) wall
	Material	high strength steel tubing, chrome plated
	Connection	API 2.0" (51 mm) non-upset tubing thread, 10 round pattern, top and bottom

Accessories:

Replacement Element	Model FRE-4.1	the replacement element for our Fracker™ FR-4.1
Frac pipe, high strength	supplied in 10' lengths	1-1/4" nominal, used to connect straddle packers

Shipping Data:

Approx. net weight	135 lbs.	61 kg
Approx. net length	85"	2,160 mm

Pricing and Terms:

Please call for pricing, FOB Denver factory and valid for 60 days.
Our terms are prepay (wire transfer, Visa, MasterCard, or certified check).
Company checks require approximately two (2) weeks to clear.