

ELDER TOOLS INTERNATIONAL

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**Cement Retainers/Bridge Plugs**

Model 'ETI-CR'

DESCRIPTION:

The 'ETI-CR' is a modular designed tool package that can quickly be field converted from Cement Retainer to Bridge Plug or from mechanical set to wireline set with minimal changes to the basic assembly. This versatile package provides the user with reliable high pressure plugging devices that can be drilled quickly using rotary or cable tools.

APPLICATIONS:

Cement Retainer for deep, hot, high risk, prolonged or complicated squeeze cement jobs.

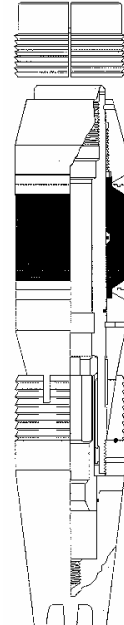
Bridge Plug for temporary or permanent zone isolation or to abandon a well.

FEATURES:

- **Wireline or Mechanical set** - Can be set with electrical pressure setting tool or mechanically on tubing.
- **Speed and safety** - Locked together design and extra clearance safely speeds run-in.
- **Quick field change** - Converts fast to Bridge Plug or Cement Retainer or mechanical to wireline.
- **Fast drill up** - Drills out quickly with rotary or cable tools.

Cement Retainer

- **Simple control** - Slide valve is controlled from surface. Pick up work string to close, set down to open.
- **Allows pressure test of tubing** - Pick up to close valve and test tubing before squeezing.
- **Locked in squeeze pressure** - The valve automatically closes when the stinger is removed locking in squeeze pressure while excess cement is circulated out.
- **Isolates hydrostatic pressure** - The valve protects sensitive zones in low fluid level wells.
- **Equivalent to Baker product numbers 400-21, 400-23, 401-20 and 401-22.**
- **Can be set with Baker Mechanical Setting Tool product no. 400-69.**

Mechanical Set
Cement RetainerWireline Set
Cement Retainer

Casing				Tool	
OD (in.)	Weight (lbs./ft.)	Preferred Range of Casing IDs (in.)		'ETI-CR' Size	Max. Tool OD (in.)
		Min.	Max.		
4-1/2	9.5-15.1	3.826	4.090	43	3.593
5	11.5-20.8	4.156	4.560	44	3.937
5-1/2	13-23	4.580	5.044	45	4.312
5-3/4	14-25.2	4.890	5.290	45C	4.700
6-5/8	17-32	5.595	6.135	46	5.375
7	17-35	6.004	6.538	47	5.688
7-5/8	20-39	6.625	7.125	48	6.312
8-5/8	24-49	7.511	8.097	49	7.125
9-5/8	29.3-61	8.375	9.063	51	8.125
10-3/4	32.75-60.7	9.660	10.192	53	9.437
11-3/4	60-83	10.192	10.772	54A	9.937
11-3/4	38-60	10.772	11.150	54B	10.437
13-3/8	77-102	11.633	12.464	55A	11.562
13-3/8	48-72.0	12.347	12.715	55B	12.000