



Rupture Disk (RD) Sampler

The **Rupture Disk (RD) Sampler** is a full-open, full bore sleeve sampler for use on drillstem tests. The sampler is controlled by a rupture disk that is operated by annulus pressure.

Features

- Time-delay feature allows the sample to be trapped after a preset time. Different metering cartridges can be used to vary the closing time.
- Full-open capabilities are retained after the tool has trapped its sample.
- Several Samplers can be run on a test to allow sampling at different times.

Operation

The Rupture Disk (RD) Sampler is controlled by a pressure-operated rupture disk and has a sample mandrel with a built-in differential area. To catch a sample, annulus pressure is increased to a predetermined level, the rupture disk in the sampler breaks, and the mandrel traps the sample.

When the rupture disk breaks, the differential area of the sample mandrel is exposed to an air chamber on one side and hydrostatic pressure and applied annulus pressure on the other. This condition results in the sample mandrel moving up and trapping the sample. When the sample mandrel reaches the top of its stroke, it is locked in place by a set of locking dogs.





Rupture Disk (RD) Sampler							
Tool Size	O.D.	I.D.	Length	End Connection	Tensile Rating	W.P.	Sample Volume
In.	In.	In.	In.	/	lb	Psi.	cc
3-7/8"	3.90	1.77	125.50	2-7/8" CAS	301450	15000	1200
5"	5.02	2.24	86.54	3-7/8" CAS 3-1/2" IF	543732	15000	1200

- 1) *Other sizes available on request.*
- 2) *Full sour gas service.*
- 3) *The values of tensile, burst, and collapse strength are calculated with new tool conditions.*
- 4) *Pressure rating is the differential pressure at the tool. (Differential pressure is the difference in pressure between the casing annulus and the tool ID.)*

Subject to change without notice