

# SUPER "Choke and Kill"

Spec. 090-19225-HT

## Abrasive Resistant Cover "Fire Retardant"

Extra tough, compounded with neoprene-base synthetic, to assure greater resistance to oil, cutting, abrasion, weather, and temperature extremes. Guide stripe provides for easy alignment.

## Open-Weave Breaker Fabric

Provides maximum bonding between secondary carcass and cover.

## 6 & 8-Layer Wire Reinforcement

Assures maximum safety, strength, and flexibility. This all important section of the hose consists of six or eight spirally wound layers of special fatigue resistant, high-tensile steel wires, each imbedded in a thick layer of rubber and tough fabric.



## Any Type End Fittings

- Hubs
- Unibolt
- Dynetor
- Unions
- API Flanges
- Graylock

## Ful-Flow Coupling

No protruding parts on Coupling.

## Protective Cover

Solid, 1/2 round Stainless steel protective cover available.

## Steel Cable

For additional reinforcement at coupling, a cable is spirally wound at each end of hose.

## Secondary Carcass

Gives added strength and safety with one ply or specially woven fabric and layer of protective rubber.

Hose & Coupling good for H<sub>2</sub>S service.  
Couplings electro plated for salt water resistance.

## Regular "Choke and Kill"

Factory Tested at 15,000 P.S.I.

Hose & Coupling good for H<sub>2</sub>S service. Couplings electro plated for salt water resistance.

## 28 Years of Proven Service in the Field

Style	Bore Size	O.D.	Length	Rated	Bend Radius	Straight End	Coupling wt./ea.	Stripe Color
Super Choke & Kill	2"	5.1"	Up to 150 Feet	Spec. 090-19225	36"	54"	125 lbs.	8 Orange Bands Longitudinal Stripe and Spiral Stripe
	2½"	5.9"		22,500 psi Tested			140 lbs.	
	3"	6.9"		15,000 psi W.P.			155 lbs.	
Regular Choke & Kill	2"	4.5"	Up to 150 Feet	Spec. 090-1915	36"	42"	95 lbs.	6 Orange Bands Longitudinal Stripe and Spiral Stripe
	2½"	5"		15,000 psi Tested			100 lbs.	
	3"	6"		10,000 psi W.P.			115 lbs.	
	3½"	6.9"					130 lbs.	
	4"	7.9"					145 lbs.	

Only years of research and development could produce this hose.

For years, Copper State Rubber hose engineers and rubber specialists have pooled their knowledge in an effort to design and construct a rotary drilling hose that would more than satisfy the most exacting requirements of the drilling industry. The successful result is the "Choke and Kill" 8-wire

layer Rotary Drilling Hose. The design of this hose is so advanced that it was necessary to develop new precision machinery for its production.

Independent Lab report available on request.

"Choke and Kill" Hose surge tested to 15,000 P.S.I. in .75 of a second.

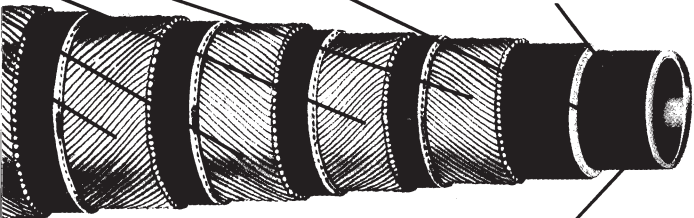
**Factory Tested at 22,500 P.S.I.  
Tested to 400 Deg. F. for 2 Hours  
at 15,000 P.S.I. with 5% CO<sub>2</sub> and Oil Based Fluids.**

**Primary Carcass**

Provides greatest flexibility through scientifically constructed multiple plies of premium grade, high-tensile fabric impregnated with finest quality rubber.

**Breaker Fabric**

Insures positive bonding of tube to primary carcass.



**Oil Resistant Tube**

Compounded for elevated temperatures of oil-base mud and oil emulsions. Resistant to gas permeation.



**“Other Safety Features”**

Couplings are built-in as an integral part of the hose. This reduces flexing fatigue at the end connections, plus the hose is less susceptible to be damaged if the bend radius is exceeded. Our flexible liner prevents any sudden rupture, without warning, at the hose ends. All Copper State hoses are built as a single unit. No Copper State hoses are coupled outside our Plant. This helps maintain our quality control after sale.

*Flow Lines: Stainless steel flexible liner installed in choke & kill hose used for flow lines.*

# Copper State Special Well Service Hose For General Rig Use

- Burner Hose
- Test Lines
- Acidizing Lines
- Cementing Lines
- Fracking Lines
- High Pressure Jetting
- Gas Lines

Spec. 090-1920

Style	Bore Size	O.D.	Length	Rated	Bend Radius	Straight End	Coupling wt./ea.	Identification
<b>Thermoflex Well Service Hose</b>	2"	4"	Up to 150 Feet	10,000 psi Tested 5,000 psi W.P.	36"	42"	80 lbs.	Stainless Steel Band Welded to Coupling Body Showing: Mfg. Name - Style of Hose Date of Manufacture & Test, Working Pressure, Serial Number.
	2½"	5"					100 lbs.	
	3"	6"					115 lbs.	
	3½"	6.5"					130 lbs.	
	4"	7.0"					145 lbs.	

Thermoflex Well Service Hoses also available in 15,000 psi Test — 10,000 psi W.P.  
11,250 psi Test — 7,500 psi W.P.

Spec. 090-1924  
Spec. 090-1928

- Liner compounded for maximum resistance to gas permeation.
- Stainless steel liner. (optional)
- Stainless steel armored. (optional)
- Maximum operating temperature 250 Deg. F.
- H<sub>2</sub>S and CO<sub>2</sub> compatible.
- Certified factory graph test reports furnished with every hose.
- Fire retardant – 700 Deg. C for 30 minutes.