



# BAROID INDUSTRIAL DRILLING PRODUCTS

PRIMARY FUNCTION    SECONDARY FUNCTION

| <div><div><div>PRODUCT<br/>TRADE<br/>NAME</div></div><div><div><div>FUNCTION</div></div></div></div> |                                                   |                                                              | <div><div><div>PRODUCT<br/>DESCRIPTION</div></div></div> | PRIMARY FUNCTION      |                    |                  |            |           |                  |                |                    |                  |                   | SECONDARY FUNCTION  |              |                  |               |             |                    |                      |                       |                       |               | RECOMMENDED<br>TREATMENT |             |                |            |  |                                                                     |
|------------------------------------------------------------------------------------------------------|---------------------------------------------------|--------------------------------------------------------------|----------------------------------------------------------|-----------------------|--------------------|------------------|------------|-----------|------------------|----------------|--------------------|------------------|-------------------|---------------------|--------------|------------------|---------------|-------------|--------------------|----------------------|-----------------------|-----------------------|---------------|--------------------------|-------------|----------------|------------|--|---------------------------------------------------------------------|
|                                                                                                      |                                                   |                                                              |                                                          | Viscosifier/Thickener | Thinner/Dispersant | Filtrate Reducer | Surfactant | Lubricant | Suspending Agent | Clay Inhibitor | Weighting Material | Well Dev & Rehab | Air-Foam Drilling | Grouting & Plugging | Pond Sealing | Soil Stabilizing | NSF Certified | Water Wells | Seismic Shot Holes | Minerals Exploration | Horizontal Dir. Drig. | Drilled Shafts & Fdn. | Monitor Holes | Remediation Well         | Fresh Water | Brackish Water | Salt Water |  |                                                                     |
| AQUA-CLEAR™ AE                                                                                       | Bacteria slime remover                            | Liquid blend of acids and acid enhancers                     |                                                          |                       |                    |                  |            |           |                  |                |                    | ●                |                   |                     |              |                  |               | ●           | ●                  | ●                    |                       |                       |               |                          | ●           |                |            |  | Refer to Product Data Sheet                                         |
| AQUA-CLEAR™ MGA                                                                                      | Scale remover                                     | Granular acid and additives                                  |                                                          |                       |                    |                  |            |           |                  |                |                    | ●                |                   |                     |              |                  |               | ●           | ●                  | ●                    |                       |                       |               |                          | ●           |                |            |  | Refer to Product Data Sheet                                         |
| AQUA-CLEAR™ MSR                                                                                      | Sediment/mud/clay remover                         | Granular phosphate blended with dispersants                  |                                                          |                       |                    |                  |            |           |                  |                |                    | ●                |                   |                     |              |                  |               | ●           | ●                  | ●                    |                       |                       |               |                          | ●           |                |            |  | Refer to Product Data Sheet                                         |
| AQUAGEL®                                                                                             | Gelant/viscosifier                                | Treated sodium montmorillonite (Sodium bentonite-200 mesh)   |                                                          | ●                     |                    |                  |            |           |                  |                |                    |                  |                   |                     |              |                  |               | ○           | ○                  | ○                    | ○                     | ○                     | ○             |                          | ●           |                |            |  | 20-50 lb/100 gallons                                                |
| AQUAGEL Gold SEAL®                                                                                   | Gelant/viscosifier                                | Sodium bentonite (untreated-200 mesh)                        |                                                          | ●                     |                    |                  |            |           |                  |                |                    |                  |                   |                     |              |                  |               | ○           | ○                  | ○                    | ○                     | ○                     | ○             |                          | ●           |                |            |  | 20-50 lb/100 gallons                                                |
| AQUA-GROUT™/BENSEAL®                                                                                 | Grouting and plugging system                      | Yield-rate control of sodium bentonite grouting system       |                                                          |                       |                    |                  |            |           |                  |                |                    |                  |                   |                     |              |                  |               | ●           | ●                  | ●                    | ●                     | ●                     | ●             |                          | ●           |                |            |  | 1 bag AQUA-GROUT/40 gallons water/2 bag BENSEAL                     |
| AQUAGUARD™                                                                                           | Subsurface grouting material                      | One-sack sodium bentonite grout (granular-50 mesh)           |                                                          |                       |                    |                  |            |           |                  |                |                    |                  |                   |                     |              |                  |               | ●           | ●                  | ●                    | ●                     | ●                     | ●             |                          | ●           |                |            |  | 1 sack / 14 gallons water                                           |
| AT-TACK-FOAM™                                                                                        | Fire suppressant foam concentrate                 | Class A foam concentrate                                     |                                                          |                       |                    |                  |            |           |                  |                |                    |                  |                   |                     |              |                  |               |             |                    |                      |                       |                       |               |                          |             |                |            |  | Refer to Product Data Sheet                                         |
| BARAF-FOAM®                                                                                          | Foaming agent                                     | Biodegradable foaming agent                                  |                                                          |                       |                    |                  |            |           |                  |                |                    |                  |                   |                     |              |                  |               | ●           | ●                  | ●                    | ●                     | ●                     | ●             |                          | ●           |                |            |  | 3-8 pints/100 gallons water                                         |
| BARAF-090®                                                                                           | Thinner and dispersant                            | Granular pentasodium triphosphosphate                        |                                                          |                       | ●                  |                  |            |           |                  |                |                    |                  |                   |                     |              |                  |               | ○           | ○                  | ○                    | ○                     | ○                     | ○             |                          | ●           |                |            |  | 10-20 lb/100 gallons                                                |
| BAROID®                                                                                              | Weighting material                                | Ground barium sulfate                                        |                                                          |                       |                    |                  |            |           |                  |                |                    |                  |                   |                     |              |                  |               | ●           | ●                  | ●                    | ●                     | ●                     | ●             |                          | ●           |                |            |  | 1-1/2 sacks; 100 gal. drilling mud to increase density by 1 lb/gal. |
| BAROID BENTONITE PELLETS                                                                             | Sealing and plugging agent                        | Sodium bentonite pellets (untreated- 1/4", 3/8", 1/2")       |                                                          |                       |                    |                  |            |           |                  |                |                    |                  |                   |                     |              |                  |               | ●           | ●                  | ●                    | ●                     | ●                     | ●             |                          | ●           |                |            |  | 1 pail fills 0.7 ft. 3                                              |
| BENSEAL®                                                                                             | Sealing and plugging agent                        | Coarse ground granular sodium bentonite (8 mesh)             |                                                          |                       |                    |                  |            |           |                  |                |                    |                  |                   |                     |              |                  |               | ●           | ●                  | ●                    | ●                     | ●                     | ●             |                          | ●           |                |            |  | 1 sack fills 0.68ft. 3                                              |
| BENSEAL®/EZ-MUD®Slurry                                                                               | Sealing and plugging system                       | Polymer treated sodium bentonite grouting system             |                                                          |                       |                    |                  |            |           |                  |                |                    |                  |                   |                     |              |                  |               | ●           | ●                  | ●                    | ●                     | ●                     | ●             |                          | ●           |                |            |  | 1 pint EZ-MUD/30 gal water/1 sack BENSEAL                           |
| BIO-BORE™                                                                                            | Horizontal directional drilling fluid concentrate | Clay-free, biodegradable drilling fluid                      |                                                          | ●                     |                    |                  |            |           |                  |                |                    |                  |                   |                     |              |                  |               | ○           | ○                  | ○                    | ○                     | ○                     | ○             |                          | ●           |                |            |  | 20-35 lb/100 gallons                                                |
| BORE-GEL™                                                                                            | Horizontal boring fluid                           | One-sack boring fluid system for use in HDD                  |                                                          | ●                     |                    |                  |            |           |                  |                |                    |                  |                   |                     |              |                  |               | ●           | ●                  | ●                    | ●                     | ●                     | ●             |                          | ●           |                |            |  | 1 sack fills 0.68 ft. 3                                             |
| CASING SEAL™                                                                                         | Sealing and plugging agent                        | Random-sized sodium bentonite mixture (8-14 mesh)            |                                                          |                       |                    |                  |            |           |                  |                |                    |                  |                   |                     |              |                  |               | ○           | ○                  | ○                    | ○                     | ○                     | ○             |                          | ○           |                |            |  | 1 sack fills 0.68 ft. 3                                             |
| CON DET®                                                                                             | Welling agent                                     | Water soluble surfactant blend                               |                                                          |                       |                    |                  |            |           |                  |                |                    |                  |                   |                     |              |                  |               | ●           | ●                  | ●                    | ●                     | ●                     | ●             |                          | ●           |                |            |  | 1-4 quarts/100 gallons                                              |
| CORE-LUBE™                                                                                           | Diamond core drill rod lubricant                  | Unseed-based soap                                            |                                                          |                       |                    |                  |            |           |                  |                |                    |                  |                   |                     |              |                  |               | ●           | ●                  | ●                    | ●                     | ●                     | ●             |                          | ●           |                |            |  | Coat pipe as necessary                                              |
| DINOMUL™                                                                                             | Wellbore stabilizing fluid                        | Aqueous lubricating fluid for torque reduction               |                                                          |                       |                    |                  |            |           |                  |                |                    |                  |                   |                     |              |                  |               | ●           | ●                  | ●                    | ●                     | ●                     | ●             |                          | ●           |                |            |  | 1-2 gallons/100 gallons                                             |
| DRILL-FOAM®                                                                                          | Foaming agent                                     | Biodegradable foaming agent                                  |                                                          |                       |                    |                  |            |           |                  |                |                    |                  |                   |                     |              |                  |               | ●           | ●                  | ●                    | ●                     | ●                     | ●             |                          | ●           |                |            |  | 3-6 pints/100 gallons                                               |
| EVRO-TORQ®                                                                                           | Drilling fluid lubricant                          | Liquid lubricant                                             |                                                          |                       |                    |                  |            |           |                  |                |                    |                  |                   |                     |              |                  |               | ●           | ●                  | ●                    | ●                     | ●                     | ●             |                          | ●           |                |            |  | 1-2 gallons/100 gallons                                             |
| EZ-MUD®                                                                                              | Borehole stabilizer/viscosifier                   | PH-PA liquid polymer emulsion                                |                                                          | ●                     |                    |                  |            |           |                  |                |                    |                  |                   |                     |              |                  |               | ○           | ○                  | ○                    | ○                     | ○                     | ○             |                          | ○           |                |            |  | 1-2 quarts/100 gallons                                              |
| EZ-MUD® DP                                                                                           | Borehole stabilizer/viscosifier                   | PH-PA dry polymer                                            |                                                          | ●                     |                    |                  |            |           |                  |                |                    |                  |                   |                     |              |                  |               | ○           | ○                  | ○                    | ○                     | ○                     | ○             |                          | ○           |                |            |  | 1-2 lb/100 gallons                                                  |
| EZ-MUD® PLUS                                                                                         | Viscosifier/borehole stabilizer                   | PH-PA liquid polymer emulsion (high molecular weight)        |                                                          | ●                     |                    |                  |            |           |                  |                |                    |                  |                   |                     |              |                  |               | ○           | ○                  | ○                    | ○                     | ○                     | ○             |                          | ○           |                |            |  | 1 quart/100 gallons                                                 |
| HQ-EPLUG®                                                                                            | Sealing and plugging agent                        | Sized-graded sodium bentonite (3/8", 3/4")                   |                                                          |                       |                    |                  |            |           |                  |                |                    |                  |                   |                     |              |                  |               | ●           | ●                  | ●                    | ●                     | ●                     | ●             |                          | ●           |                |            |  | 1 sack fills 0.7 ft. 3                                              |
| LIQUID-TROL™                                                                                         | Filtration control/viscosifier                    | Modified natural cellulosic polymer suspension               |                                                          | ○                     |                    |                  |            |           |                  |                |                    |                  |                   |                     |              |                  |               | ○           | ○                  | ○                    | ○                     | ○                     | ○             |                          | ○           |                |            |  | 1-4 quarts/100 gallons                                              |
| NO-SAG™                                                                                              | Polymeric viscosifier                             | Biopolymer additive for enhancing carrying capacity of fluid |                                                          |                       |                    |                  |            |           |                  |                |                    |                  |                   |                     |              |                  |               | ●           | ●                  | ●                    | ●                     | ●                     | ●             |                          | ●           |                |            |  | 1-2 bags/300 gallons drilling fluid                                 |
| POLY-BORE™                                                                                           | Borehole stabilizing agent                        | PH-PA dry polymer (high molecular weight)                    |                                                          | ●                     |                    |                  |            |           |                  |                |                    |                  |                   |                     |              |                  |               | ○           | ○                  | ○                    | ○                     | ○                     | ○             |                          | ○           |                |            |  | 0.5-1 lb/100 gallons                                                |
| QUICK-FOAM®                                                                                          | Foaming agent                                     | High expansion, biodegradable liquid surfactant blend        |                                                          |                       |                    |                  |            |           |                  |                |                    |                  |                   |                     |              |                  |               | ●           | ●                  | ●                    | ●                     | ●                     | ●             |                          | ●           |                |            |  | 2-4 pints/100 gallons                                               |
| QUICK-GEL®                                                                                           | High-yield gelant/viscosifier                     | High-yield treated sodium bentonite                          |                                                          | ●                     |                    |                  |            |           |                  |                |                    |                  |                   |                     |              |                  |               | ●           | ●                  | ●                    | ●                     | ●                     | ●             |                          | ●           |                |            |  | 15-35 lb/100 gallons                                                |
| QUICK-GROUT™                                                                                         | Subsurface grouting material                      | One-sack sodium bentonite grout (granular)                   |                                                          |                       |                    |                  |            |           |                  |                |                    |                  |                   |                     |              |                  |               | ○           | ○                  | ○                    | ○                     | ○                     | ○             |                          | ○           |                |            |  | 1 sack/24 gallons water                                             |
| QUICK-TROL™                                                                                          | Filtration control/viscosifier                    | Dry modified cellulosic polymer                              |                                                          | ○                     |                    |                  |            |           |                  |                |                    |                  |                   |                     |              |                  |               | ○           | ○                  | ○                    | ○                     | ○                     | ○             |                          | ○           |                |            |  | 1-2 bags/100 gallons                                                |
| ROD-GUARD™                                                                                           | Vibration dampening lubricant                     | Lithium-based lighter weight lubricant                       |                                                          |                       |                    |                  |            |           |                  |                |                    |                  |                   |                     |              |                  |               | ●           | ●                  | ●                    | ●                     | ●                     | ●             |                          | ●           |                |            |  | Coat pipe as necessary                                              |
| VIBRA-GUARD™                                                                                         | Diamond core drill rod lubricant                  | Bentonite-based heavy weight lubricant                       |                                                          |                       |                    |                  |            |           |                  |                |                    |                  |                   |                     |              |                  |               | ●           | ●                  | ●                    | ●                     | ●                     | ●             |                          | ●           |                |            |  | Coat pipe as necessary                                              |
| VIBRA-LUBE™                                                                                          | Drilling fluid lubricant                          | Torque reducer                                               |                                                          |                       |                    |                  |            |           |                  |                |                    |                  |                   |                     |              |                  |               | ○           | ○                  | ○                    | ○                     | ○                     | ○             |                          | ○           |                |            |  | 1-2 quarts/100 gallons                                              |
| ZEOGEL®                                                                                              | Saltwater gelant/viscosifier                      | Ground attapulgite clay                                      |                                                          | ●                     |                    |                  |            |           |                  |                |                    |                  |                   |                     |              |                  |               | ○           | ○                  | ○                    | ○                     | ○                     | ○             |                          | ○           |                |            |  | 50-100 lb/100 gallons                                               |

# T100 MUD

## FOR LOW SOLIDS DRILLING FLUIDS AND AN EXCELLENT GROUTING MIX WITH GRANULAR BENTONITE

- **T100 MUD** is a white, liquid, anionic polymer emulsion which is readily soluble in fresh or brackish water.
- **T100 MUD** may be used to prepare a solids-free drilling fluid with exceptional hole stabilizing properties, or to improve the properties of bentonite fluids.

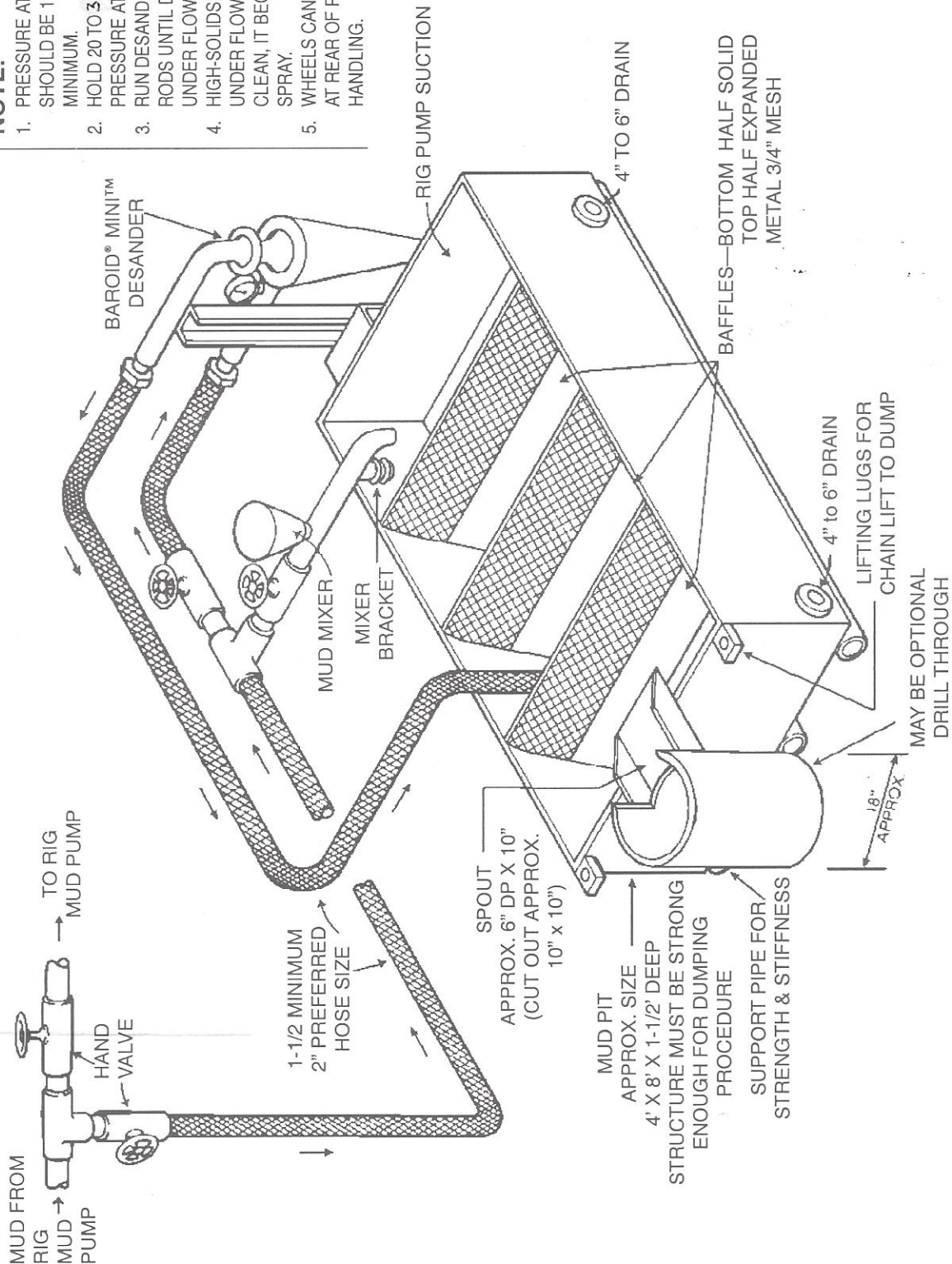
### ADVANTAGES:

- Mixes and yields rapidly and completely with minimum shear.
- Settles cuttings rapidly in pits.
- Lubricates and reduces drill pipe torque and circulating pressure.
- Rapid and efficient thickener to improve hole cleaning.
- Non-toxic and proven suitable for use in drilling water wells.
- Non-damaging to producing formations and T100 MUD is water-soluble.
- Breaks down to water viscosity with sodium hypochlorite (Clorox®).

**T100 MUD** is very comparable to other leading brands in the water well industry.

## MUD TANK WITH BAROID® MINI™ DESANDER

- NOTE:**
1. PRESSURE AT MUD MIXER SHOULD BE 100 PSI MINIMUM.
  2. HOLD 20 TO 30 PSI PRESSURE AT DESANDER.
  3. RUN DESANDER BETWEEN RODS UNTIL DESANDER UNDER FLOW CLEANS.
  4. HIGH-SOLIDS ROPE AT UNDER FLOW. WHEN CLEAN, IT BECOMES A SPRAY.
  5. WHEELS CAN BE ADDED AT REAR OF PIT TO AID HANDLING.



## **BAROID® MINI™ Desander Assembly** 188-102

### **Description and Parts**

The BAROID® MINI™ Desander is a special wear-resistant, long life, plastic, five-inch hydrocyclone assembly with a quick-coupled manifold unit included as standard equipment. Also required is a high quality dependable pressure gauge with protector to prevent drilling mud from entering the gauge.

**NOTE:** The use of a dependable and accurate pressure gauge is absolutely necessary for proper operation of the cone.

When desired, two or more cones can be used, manifolded in parallel.

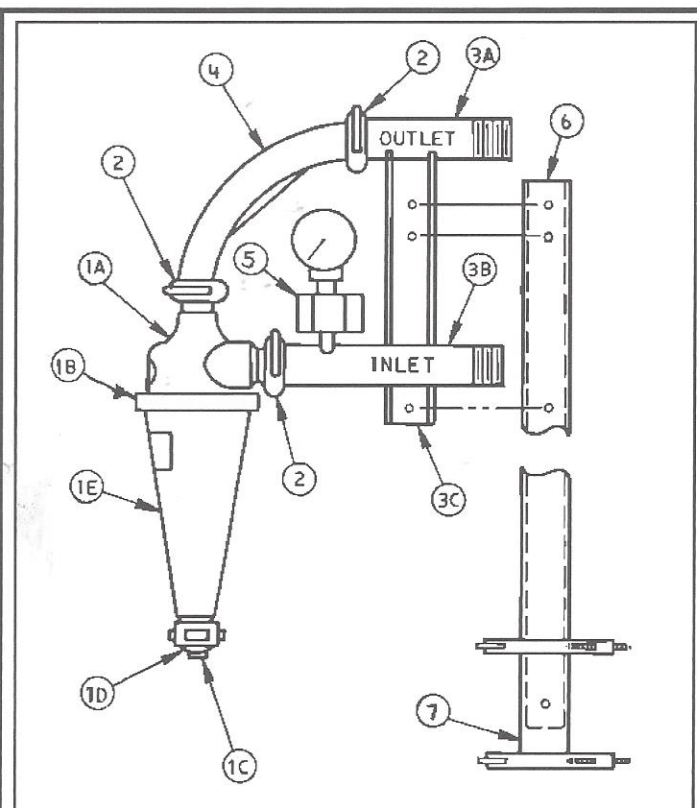
### **Installing the BAROID® MINI™ Desander**

To operate the BAROID® MINI™ Desander, a pump is necessary that can deliver up to 90 gal/min\* at pressures from 20 to 30 p.s.i.

The BAROID MINI Desander can be rigged to use the drilling rig mud pump for intermittent operations or installed on a separate pump for continuous operations. If the drilling rig pump is used, it should be arranged so that during connections and other shut-down periods, the mud is diverted from the standpipe and directed into the BAROID MINI Desander.

Either steel or earthen (dug) pits can be used. The return flow from the BAROID MINI Desander must be directed upstream from the pump suction. When an earthen pit is used, care must be taken so the discharge does not erode the bottom or the sides of the pit.

\*If more than one cone is in use, increase the pump volume accordingly.



1. Baroid 5" Hydrocyclone Assembly . 188-90  
Includes:
  - 1.A Inlet Section ..... 188-90-2
  - 1.B Retainer Clamp ..... 188-90-4
  - 1.C Adjustable Orifice ..... 188-90-7
  - 1.D Adjusting Nut ..... 188-90-8
  - 1.E Cone Section ..... 188-90-9
2. Victaulic Coupling (3) ..... 188-76-1
3. Desander Manifold Unit..... 188-101-11B
  - A. Grooved Outlet Pipe (2") steel
  - B. Grooved Inlet Pipe (2") steel
  - C. Stand off Bracket
4. Overflow Elbow ..... 188-74-2
5. Pressure Gauge and Protector .... 37-14

### **OPTIONAL ACCESSORIES**

6. 48" Stand off Bracket..... 188-101-2
7. Mounting Clamp Assembly ..... 98-51
8. \*25 ft. 2" flexible reinforced  
hose with swivel pipe ends ..... 188-101-4
9. \*2" Strainer with foot valve  
for pump suction ..... 188-101-5

\*Items not shown

All orders must specify description and order part number for each item.