

MAGNUMDISK™

UNDERBALANCED SUB

INNOVATION REVEALED

The **Magnumdisk™ Underbalanced Sub** provides an underbalance condition between the annulus and work string for TCP operations. To achieve an underbalance condition, this tool uses a high strength dome disk that is positioned above the flow ports of the sub body. The ports are used for production, pump volumes or to simply act as a tubing drain when pulling out of the well.

FEATURES

- Safe, economical, simple and reliable
- 10,000 psi differential rating
- Full opening ID once the disk is shattered
- Maximum Surge Protection
- Other sizes, thread type and materials available upon request
- Maximum flow area
- Higher pressure tools available upon request
- Available with premium threads & materials
- Can be run in heavy mud environment
- Redress Kits Available
- Custom O.D.'s available upon request

OPERATIONS

The Magnumdisk™ Underbalanced Sub is positioned between the packer and 30' (9.1M) minimum above the perforating gun and the packer. The work string must be filled manually or by using the MAGNUM Fast Fill Sub while running into the well. When sufficient fluid is filled into the work string to achieve the desired underbalance, continue running into the well to perforation depth. Correlate TCP BHA into position and set the packer. A drop bar is released from surface which shatters the ceramic disk establishing communication to the annulus through the flow ports.

WARNING: Only qualified personnel should use or assemble Magnum TCP equipment. Use of Magnum TCP equipment in contrary to our specifications may result in property damage, injury or fatality. If you are not trained in the handling and the use of explosive devices, DO NOT attempt to assemble any Magnum Perforating Systems or Magnum Firing Devices.



NOTE: This tool is also available without ports. In this application, the tool is placed above the packer to achieve the desired underbalance.

* Other thread types available upon request / ** Use VITON 90 DURO O-RINGS / *** Differential Pressure

| O.D. inch (mm) | BOX X PIN CONNECT* inch (mm) | TOOL I.D. inch (mm) | MAX PSI ABOVE DISK CONCAVE SIDE*** | MAX PSI BELOW DISK CONCAVE SIDE*** | MAX TEMP. ** | FLOW PORT FLOW AREA inch ² (mm ²) | LENGTH |
|----------------|------------------------------|---------------------|------------------------------------|------------------------------------|----------------|----------------------------------------------------------|--------------|
| 3.062 (77.8) | 2-3/8 EUE (60.3) | 1.995 (50.8) | 1,000 PSI (6.9 MPa) | 10,000 PSI (68.9 MPa) | 450° F (232°C) | 3.970 (2,561.3) | 11.5 (292.1) |
| 3.688 (93.7) | 2-7/8 EUE (73.0) | 2.441 (62.0) | | | | 4.900 (3,161.3) | 12.5 (317.5) |
| 4.500 (114.3) | 3-1/2 EUE (88.9) | 2.992 (76.0) | | | | 7.070 (4,561.3) | 13.5 (342.9) |



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