



## Double Block and Bleed Grip Type Tool

### ADVANTAGES

- Lightweight design: aluminum body with stainless steel hardware
- Tools 3/4" through 2" #160 are all single stem design
- Monitors both isolation pressure and upstream pressure
- All tools are back-pressure rated up to 1500 PSI depending on pipe size and conditions
- Seal materials are one-piece molded and manufactured from proprietary Buna-N blend
- Through-port to allow the venting of upstream gas and vapors to a safe area; this port can also be used to purge low-pressure nitrogen
- Designed with a 1.5 safety factor
- Size range 3/4" - 16"



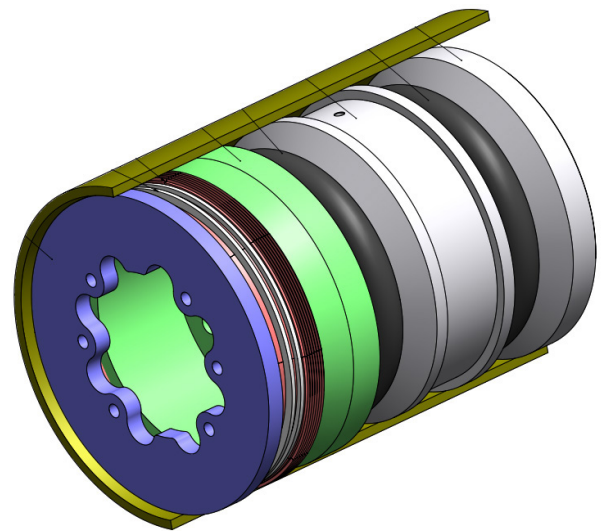
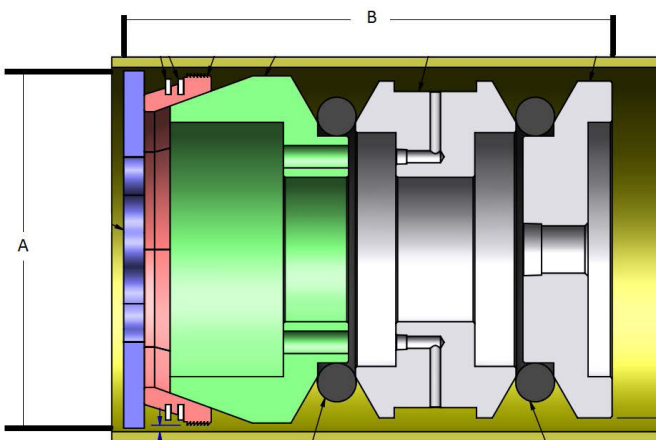
### PRODUCT DESCRIPTION

Superior's double block and bleed gripper tools are designed to provide an isolation barrier on localized field repair and modifications. The advantage of the safety jaws allow the end user to isolate, monitor, and vent hydrocarbon vapors to a safe area when performing welded connections, while giving them the assurance that the safety jaws are rated for 1500 PSI in case of a primary isolation failure. Superior's plug incorporates unique features that make it the most application-efficient tool on the market, while keeping safety the number one goal.

Superior's proprietary seals are a solid molded blend of Buna-N that allows for more flexibility and less splitting, therefore, increasing the chance to seal in less desirable ID pipe surfaces and reducing or eliminating the loss of the positive isolation. Superior gripper jaw attachments can be adapted to all of Superior's standard tools with little or no modifications. In sizes 6" and larger, the gripper is an independent function allowing the jaws and seals to be energized separately. Gripper jaws in 2" and larger are placed at the front of the tool for ease of access during removal.

Superior's design provides a large through-port vent, allowing more vapor volume to be vented to a safe area.

| Pipe Size | Pipe Schedule          | Plug O.D.<br>Inch (mm)<br>"A"                            | Length<br>inch<br>"B"                         | Maximum Test<br>Pressure<br>psi (bar)        | Maximum<br>Upstream<br>Pressure<br>psi (bar) | Tool   |
|-----------|------------------------|--|---|--|--|--|
| 3/4       | 40<br>80               | 0.824 20.93<br>0.742 18.85                               | 16 - 19                                       | 2,500 172.37                                 | 1,500 103.42                                 | SPR-0.750" 40<br>SPR-0.750" 80                             |
| 1         | 40<br>80<br>160<br>XXS | 1.049 26.64<br>0.957 24.31<br>0.815 20.70<br>0.599 15.21 | 16 - 19                                       | 2,500 172.37                                 | 1,500 103.42                                 | SPR-1.0" 40<br>SPR-1.0" 80<br>SPR-1.0" 160<br>SPR-1.0" XXS |
| 1 1/2     | 40<br>80<br>160<br>XXS | 1.610 40.89<br>1.500 38.10<br>1.338 33.99<br>1.100 27.94 | 16 - 19                                       | 2,250 155.13                                 | 1,500 103.42                                 | SPR-1.5" 40<br>SPR-1.5" 80<br>SPR-1.5" 160<br>SPR-1.5" XXS |
| 2         | 160                    |  | 16 - 19                                       | 2,250 155.13                                 | 1,500 103.42                                 | SPR-2.0" 160   |
| 2         | 40<br>80               | 1.962 49.83<br>1.844 46.84                               | 7.750 196.85                                  | 2,000 137.90<br>2,250 155.13                 | 1,500 103.42                                 | SPR-2.0" 40<br>SPR-2.0" 80                                 |
| 3         | 40<br>80<br>160<br>XXS | 2.775 70.49<br>2.175 55.25                               | 8.125 206.38<br>7.750 196.85                  | 2,250 155.13<br>3,375 232.70                 | 1,500 103.42                                 | SPR-3.0" 40/80<br>SPR-3.0" 160<br>SPR-3.0" XXS             |
| 4         | 40HP<br>40 / 80<br>XXS | 3.863 98.12<br>3.626 92.10<br>3.027 76.89                | 8.750 222.25<br>8.750 222.25<br>10.000 254.00 | 2,250 155.13<br>2,250 155.13<br>3,375 232.70 | 1,500 103.42                                 | SPR-4.0" HP<br>SPR-4.0" 40/80<br>SPR-4.0" XXS              |
| 6         | 40 / 80<br>XXS         | 5.563 141.30<br>4.697 119.30                             | 10.875 276.23                                 | 2,000 137.90<br>3,375 232.70                 | 1,500 103.42                                 | SPR-6.0" 40/80<br>SPR-6.0" XXS                             |
| 8         | 40 / 80<br>XXS         | 7.438 188.93<br>6.625 168.28                             | 11.750 298.45                                 | 1,150 79.29<br>2,250 155.13                  | 1,500 103.42                                 | SPR-8.0" 40/80<br>SPR-8.0" XXS                             |
| 10        | 40 / 80                | 9.375 238.13   | 11.500 292.10                                 | 1,150 79.29                                  | 1,500 103.42                                 | SPR-10.0" 40/80  |
| 12        | 40 / 80                | 11.125 282.58  | 12.250 311.15                                 | 1,150 79.29                                  | 1,500 103.42                                 | SPR-12.0" 40/80  |
| 14        | 40 / 80                | 12.250 311.15  | 13.750 349.25                                 | 1,150 79.29                                  | 1,500 103.42                                 | SPR-14.0" 40/80  |
| 16        | 40 / 80                | 14.000 355.60  | 15.63 396.88                                  | 1,150 79.29                                  | 1,500 103.42                                 | SPR-16.0" 40/80  |



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