

SCALEMASTER® Descaling Nozzles

Series 682

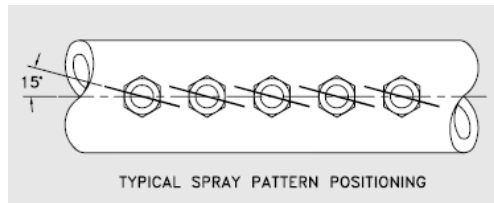
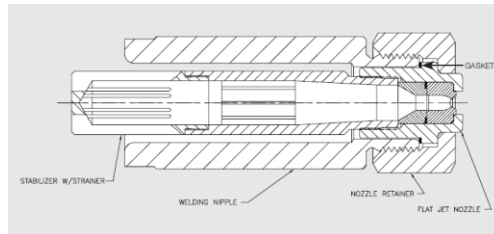
While the standard SCALEMASTER® can handle the majority of applications, there are some situations where an even more powerful approach is required to gain the next level of effectiveness. The SCALEMASTER® HP is a more sophisticated design that can handle the most difficult and demanding descaling situations.

SCALEMASTER® HP assemblies use specifically optimized components that create our highest impact for the best possible surface quality.

- Larger internal flow zones minimize turbulence
- Improved orifice geometry
- Internal components reduce flow resistance
- Unparalleled impact uniformity

All these combine to form razor sharp scale cutting sprays for even the most difficult alloys and shapes.

If you are already using SCALEMASTER® nozzles, HP tip assemblies follow the same assembly scheme and fit into the same bases so there are no header modifications necessary to use the more sophisticated technology. Special HP strainer/stabilizers are required, and may be longer than their standard SCALEMASTER® equivalents. So, if the internal clearance in the header is limited, you may have to check this carefully.



| Ordering Number | Spray Angle | | | | Mat No. | | Minimum Free Passage (in.) | Flow Rate | | | | | | | |
|-----------------|-------------|-----|-----|-----|----------------------------|------------------|----------------------------|----------------------|----------|----------|---------------------------|----------|----------|----------|----------|
| | | | | | 27 | H7 | | (Gallons Per Minute) | | | | | | | |
| | 22° | 26° | 30° | 40° | Tungsten Carbide long life | Tungsten Carbide | | 700 psi | 1000 psi | 1500 psi | litres per minute 120 bar | 2000 psi | 2500 psi | 3000 psi | 3500 psi |
| 682 | 495 | 496 | 497 | 498 | ü | ü | 0.042 | 2.2 | 2.6 | 3 | 13.2 | 3.7 | 4.2 | 4.6 | 5 |
| 682 | 535 | 536 | 537 | 538 | ü | ü | 0.043 | 2.8 | 3.3 | 4 | 16.4 | 4.7 | 5.2 | 5.7 | 6.2 |
| 682 | 565 | 566 | 567 | 568 | ü | ü | 0.047 | 3.3 | 3.9 | 4.8 | 19.7 | 5.6 | 6.2 | 6.8 | 7.4 |
| 682 | 605 | 606 | 607 | 608 | ü | ü | 0.059 | 4.2 | 5.1 | 6.2 | 25.3 | 7.1 | 8 | 8.8 | 9.4 |
| 682 | 645 | 646 | 647 | 648 | ü | ü | 0.063 | 5.1 | 6.1 | 0 | 30.7 | 8.7 | 9.7 | 10.6 | 11.5 |
| 682 | 685 | 686 | 687 | 688 | ü | ü | 0.071 | 6.6 | 7.9 | 9.7 | 39.4 | 11.2 | 12.5 | 13.7 | 14.8 |
| 682 | 725 | 726 | 727 | 728 | ü | ü | 0.075 | 8.3 | 9.9 | 12.1 | 49.3 | 14 | 15.6 | 17.1 | 18.5 |
| 682 | 765 | 766 | 767 | 768 | ü | ü | 0.091 | 10.6 | 12.7 | 15.6 | 63.5 | 18 | 20.1 | 22 | 23.8 |
| 682 | 805 | 806 | 807 | 808 | ü | ü | 0.106 | 13 | 15.8 | 19.3 | 78.8 | 22.3 | 24.9 | 27.3 | 29.5 |
| 682 | 845 | 846 | 847 | 848 | ü | ü | 0.118 | 16.3 | 19.5 | 23.9 | 97.5 | 27.6 | 30.9 | 33.8 | 36.5 |
| 682 | 885 | 886 | 887 | 888 | ü | ü | 0.134 | 20.6 | 24.6 | 30.1 | 122 | 34.7 | 38.8 | 42.6 | 46 |
| 682 | - | 906 | 907 | 908 | ü | ü | 0.145 | 22.9 | 27.4 | 33.6 | 136 | 38.8 | 43.3 | 47.5 | 41.3 |
| 682 | - | 916 | 917 | 918 | ü | ü | 0.149 | 24.6 | 29.4 | 36 | 146 | 41.6 | 46.5 | 50.9 | 55 |

| Component | Ordering No. | Weight (kg.) |
|---|---------------------------------|----------------------------|
| Welding nipple Material: AISI 304 | Length: L=120mm | 069.411.1C.00 0.830 |
| | L=100mm | 069.410.1C.00 0.690 |
| | L=73mm | 069.410.1C.73 0.480 |
| Jet stabilizer Material: Brass | without filter S= 74 | 064.231.16 0.070 |
| | without filter S= 94 | 064.233.16 0.080 |
| | with filter S _F =110 | 064.250.16 0.110 |
| | with filter S _F =130 | 064.252.16 0.140 |
| | with filter S _F =150 | 064.253.16 0.160 |
| Gasket Material: Copper | 095.015.34.04.02.0 | 0.004 |
| Nut (Standard) Material: AISI 431 | Hex41 | 069.400.11 0.153 |
| Nut with hexagon socket Material: AISI 431 | Hex 24/36 | 069.402.11 0.24 |
| Alignment tip/Blank tip Material: Mild steel | Data sheet on request | 069.490.01 0.072 |
| Disassembly tool Material: Mild steel | Data sheet on request | 069.491.01 0.14 |
| Tip extractor | Data sheet on request | 095.009.00.12.56.0 0.95 |

