



# Vented Countersunk Machine Screws

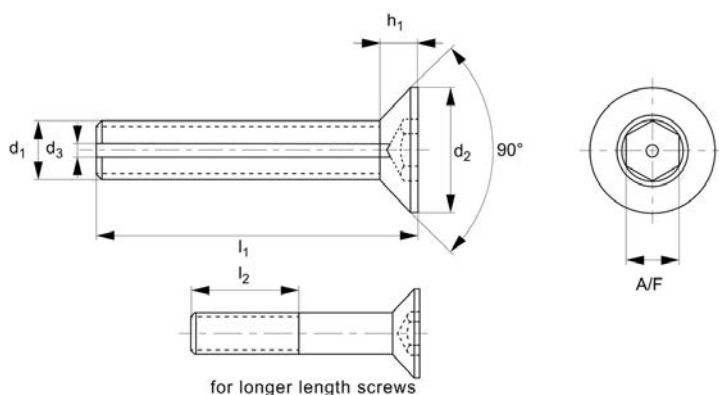
hex. drive - 316 stainless

Vented Screws



P0093.A4

VENTED SCREWS



## Material

Stainless steel (AISI 316, 1.4401), strength class 60.

## Technical Notes

To ISO 10642 with central vent. Other sizes

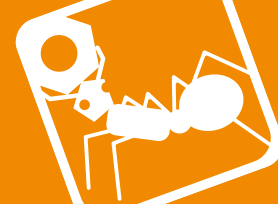
can be produced to technical drawings.

## Tips

These products help eliminate virtual leaks from high vacuum (HV and UHV) systems, thereby improving pump-down times.

Trapped gases at the bottom of a tapped hole are able to escape via the central vent down the middle of the screw.

| Order No.        | $l_1$ | $d_1$ | $d_2$ | $d_3$ | $h_1$ | $l_2$ | A/F |
|------------------|-------|-------|-------|-------|-------|-------|-----|
| P0093.020-004-A4 | 4     | M 2   | 3.8   | 0.8   | 1.3   | -     | 1.3 |
| P0093.020-005-A4 | 5     | M 2   | 3.8   | 0.8   | 1.3   | -     | 1.3 |
| P0093.020-006-A4 | 6     | M 2   | 3.8   | 0.8   | 1.3   | -     | 1.3 |
| P0093.020-008-A4 | 8     | M 2   | 3.8   | 0.8   | 1.3   | -     | 1.3 |
| P0093.020-010-A4 | 10    | M 2   | 3.8   | 0.8   | 1.3   | -     | 1.3 |
| P0093.020-012-A4 | 12    | M 2   | 3.8   | 0.8   | 1.3   | -     | 1.3 |
| P0093.025-004-A4 | 4     | M2,5  | 4.8   | 0.9   | 1.9   | -     | 1.5 |
| P0093.025-005-A4 | 5     | M2,5  | 4.8   | 0.9   | 1.9   | -     | 1.5 |
| P0093.025-006-A4 | 6     | M2,5  | 4.8   | 0.9   | 1.9   | -     | 1.5 |
| P0093.025-008-A4 | 8     | M2,5  | 4.8   | 0.9   | 1.9   | -     | 1.5 |
| P0093.025-010-A4 | 10    | M2,5  | 4.8   | 0.9   | 1.9   | -     | 1.5 |
| P0093.025-012-A4 | 12    | M2,5  | 4.8   | 0.9   | 1.9   | -     | 1.5 |
| P0093.030-005-A4 | 5     | M 3   | 6.0   | 1.0   | 1.7   | -     | 2.0 |
| P0093.030-006-A4 | 6     | M 3   | 6.0   | 1.0   | 1.7   | -     | 2.0 |
| P0093.030-008-A4 | 8     | M 3   | 6.0   | 1.0   | 1.7   | -     | 2.0 |
| P0093.030-010-A4 | 10    | M 3   | 6.0   | 1.0   | 1.7   | -     | 2.0 |
| P0093.030-012-A4 | 12    | M 3   | 6.0   | 1.0   | 1.7   | -     | 2.0 |
| P0093.030-016-A4 | 16    | M 3   | 6.0   | 1.0   | 1.7   | 12    | 2.0 |
| P0093.040-005-A4 | 5     | M 4   | 8.0   | 1.0   | 2.3   | -     | 2.5 |
| P0093.040-006-A4 | 6     | M 4   | 8.0   | 1.0   | 2.3   | -     | 2.5 |
| P0093.040-008-A4 | 8     | M 4   | 8.0   | 1.0   | 2.3   | -     | 2.5 |
| P0093.040-010-A4 | 10    | M 4   | 8.0   | 1.0   | 2.3   | -     | 2.5 |
| P0093.040-012-A4 | 12    | M 4   | 8.0   | 1.0   | 2.3   | -     | 2.5 |
| P0093.040-016-A4 | 16    | M 4   | 8.0   | 1.0   | 2.3   | 14    | 2.5 |
| P0093.040-020-A4 | 20    | M 4   | 8.0   | 1.0   | 2.3   | 14    | 2.5 |
| P0093.040-025-A4 | 25    | M 4   | 8.0   | 1.0   | 2.3   | 14    | 2.5 |
| P0093.040-030-A4 | 30    | M 4   | 8.0   | 1.0   | 2.3   | 14    | 2.5 |
| P0093.040-035-A4 | 35    | M 4   | 8.0   | 1.0   | 2.3   | 14    | 2.5 |
| P0093.050-006-A4 | 6     | M 5   | 10.0  | 1.3   | 2.8   | -     | 3.0 |
| P0093.050-008-A4 | 8     | M 5   | 10.0  | 1.3   | 2.8   | -     | 3.0 |
| P0093.050-010-A4 | 10    | M 5   | 10.0  | 1.3   | 2.8   | -     | 3.0 |
| P0093.050-012-A4 | 12    | M 5   | 10.0  | 1.3   | 2.8   | -     | 3.0 |
| P0093.050-016-A4 | 16    | M 5   | 10.0  | 1.3   | 2.8   | -     | 3.0 |



| Order No.        | l <sub>1</sub> | d <sub>1</sub> | d <sub>2</sub> | d <sub>3</sub> | h <sub>1</sub> | l <sub>2</sub> | A/F  |
|------------------|----------------|----------------|----------------|----------------|----------------|----------------|------|
| P0093.050-020-A4 | 20             | M 5            | 10.0           | 1.3            | 2.8            | 16             | 3.0  |
| P0093.050-025-A4 | 25             | M 5            | 10.0           | 1.3            | 2.8            | 16             | 3.0  |
| P0093.050-030-A4 | 30             | M 5            | 10.0           | 1.3            | 2.8            | 16             | 3.0  |
| P0093.050-035-A4 | 35             | M 5            | 10.0           | 1.3            | 2.8            | 16             | 3.0  |
| P0093.050-040-A4 | 40             | M 5            | 10.0           | 1.3            | 2.8            | 16             | 3.0  |
| P0093.060-008-A4 | 8              | M 6            | 12.0           | 1.6            | 3.3            | -              | 4.0  |
| P0093.060-010-A4 | 10             | M 6            | 12.0           | 1.6            | 3.3            | -              | 4.0  |
| P0093.060-012-A4 | 12             | M 6            | 12.0           | 1.6            | 3.3            | -              | 4.0  |
| P0093.060-016-A4 | 16             | M 6            | 12.0           | 1.6            | 3.3            | -              | 4.0  |
| P0093.060-020-A4 | 20             | M 6            | 12.0           | 1.6            | 3.3            | 18             | 4.0  |
| P0093.060-025-A4 | 25             | M 6            | 12.0           | 1.6            | 3.3            | 18             | 4.0  |
| P0093.060-030-A4 | 30             | M 6            | 12.0           | 1.6            | 3.3            | 18             | 4.0  |
| P0093.060-035-A4 | 35             | M 6            | 12.0           | 1.6            | 3.3            | 18             | 4.0  |
| P0093.060-040-A4 | 40             | M 6            | 12.0           | 1.6            | 3.3            | 18             | 4.0  |
| P0093.060-045-A4 | 45             | M 6            | 12.0           | 1.6            | 3.3            | 18             | 4.0  |
| P0093.060-050-A4 | 50             | M 6            | 12.0           | 1.6            | 3.3            | 18             | 4.0  |
| P0093.080-012-A4 | 12             | M 8            | 16.0           | 1.8            | 4.4            | -              | 5.0  |
| P0093.080-016-A4 | 16             | M 8            | 16.0           | 1.8            | 4.4            | -              | 5.0  |
| P0093.080-020-A4 | 20             | M 8            | 16.0           | 1.8            | 4.4            | -              | 5.0  |
| P0093.080-025-A4 | 25             | M 8            | 16.0           | 1.8            | 4.4            | 22             | 5.0  |
| P0093.080-030-A4 | 30             | M 8            | 16.0           | 1.8            | 4.4            | 22             | 5.0  |
| P0093.080-035-A4 | 35             | M 8            | 16.0           | 1.8            | 4.4            | 22             | 5.0  |
| P0093.080-040-A4 | 40             | M 8            | 16.0           | 1.8            | 4.4            | 22             | 5.0  |
| P0093.080-045-A4 | 45             | M 8            | 16.0           | 1.8            | 4.4            | 22             | 5.0  |
| P0093.080-050-A4 | 50             | M 8            | 16.0           | 1.8            | 4.4            | 22             | 5.0  |
| P0093.080-055-A4 | 55             | M 8            | 16.0           | 1.8            | 4.4            | 22             | 5.0  |
| P0093.100-016-A4 | 16             | M10            | 20.0           | 1.8            | 5.5            | -              | 6.0  |
| P0093.100-020-A4 | 20             | M10            | 20.0           | 1.8            | 5.5            | -              | 6.0  |
| P0093.100-025-A4 | 25             | M10            | 20.0           | 1.8            | 5.5            | -              | 6.0  |
| P0093.100-030-A4 | 30             | M10            | 20.0           | 1.8            | 5.5            | 26             | 6.0  |
| P0093.100-035-A4 | 35             | M10            | 20.0           | 1.8            | 5.5            | 26             | 6.0  |
| P0093.100-040-A4 | 40             | M10            | 20.0           | 1.8            | 5.5            | 26             | 6.0  |
| P0093.100-045-A4 | 45             | M10            | 20.0           | 1.8            | 5.5            | 26             | 6.0  |
| P0093.100-050-A4 | 50             | M10            | 20.0           | 1.8            | 5.5            | 26             | 6.0  |
| P0093.100-055-A4 | 55             | M10            | 20.0           | 1.8            | 5.5            | 26             | 6.0  |
| P0093.100-060-A4 | 60             | M10            | 20.0           | 1.8            | 5.5            | 26             | 6.0  |
| P0093.120-020-A4 | 20             | M12            | 24.0           | 1.8            | 6.5            | -              | 8.0  |
| P0093.120-025-A4 | 25             | M12            | 24.0           | 1.8            | 6.5            | -              | 8.0  |
| P0093.120-030-A4 | 30             | M12            | 24.0           | 1.8            | 6.5            | -              | 8.0  |
| P0093.120-035-A4 | 35             | M12            | 24.0           | 1.8            | 6.5            | 30             | 8.0  |
| P0093.120-040-A4 | 40             | M12            | 24.0           | 1.8            | 6.5            | 30             | 8.0  |
| P0093.120-045-A4 | 45             | M12            | 24.0           | 1.8            | 6.5            | 30             | 8.0  |
| P0093.120-050-A4 | 50             | M12            | 24.0           | 1.8            | 6.5            | 30             | 8.0  |
| P0093.120-060-A4 | 60             | M12            | 24.0           | 1.8            | 6.5            | 30             | 8.0  |
| P0093.160-025-A4 | 25             | M16            | 30.0           | 1.8            | 7.5            | -              | 10.0 |
| P0093.160-030-A4 | 30             | M16            | 30.0           | 1.8            | 7.5            | -              | 10.0 |
| P0093.160-035-A4 | 35             | M16            | 30.0           | 1.8            | 7.5            | -              | 10.0 |
| P0093.160-040-A4 | 40             | M16            | 30.0           | 1.8            | 7.5            | 38             | 10.0 |
| P0093.160-045-A4 | 45             | M16            | 30.0           | 1.8            | 7.5            | 38             | 10.0 |
| P0093.160-050-A4 | 50             | M16            | 30.0           | 1.8            | 7.5            | 38             | 10.0 |
| P0093.160-060-A4 | 60             | M16            | 30.0           | 1.8            | 7.5            | 38             | 10.0 |