

| | | | |
|---|---|---|---|
| | **Test Hoses and Connectors** | | **60 - 70** |
| | **Test Hose** | **SMS / SGS** | **62 - 63** |
| | Technical Data | | |
|  | **Test Hose / Hose End** | **SMS / SGS / HE** | **63** |
| | Ordering Codes | | |
|  | **Hose End** | **HE** | **64 - 69** |
|  | **Hose Connector** | **SSV** | **70** |
|  | **Sampling Hose Adaptor** | **SHA** | **70** |


C

C

## Technical Data Test Hose



| | | | A | B | C | D |
|---|---|---|---|---|---|---|
| Nominal Bore (DN) | | (mm) | DN 2 | | DN 4 | |
| Max. Working Pressure (PN) | | (bar / PSI) | 400 / 5801 | 630 / 9135 | 340 / 4931 | 630 / 9135 |
| Min. Burst Pressure | | (bar / PSI) | 1100 / 15954 | 1900 / 27557 | 850 / 12328 | 1900 / 27557 |
| Testing Pressure | | (bar / PSI) | 600 / 8702 | 950 / 13778 | 570 / 8267 | 950 / 13779 |
| Pressure Rating in bar / PSI at Indicated Temperature | at 0 °C / 32 °F (122 %) | (bar / PSI) | 488 / 7077 | 768 / 11139 | 415 / 6016 | 768 / 11139 |
| | at 30 °C / 86 °F (110 %) | | 440 / 6381 | 693 / 10051 | 374 / 5424 | 693 / 10051 |
| | at 50°C / 122 °F (100 %) | | 400 / 5801 | 630 / 9137 | 340 / 4931 | 630 / 9137 |
| | at 80°C / 176 °F (86 %) | | 344 / 4989 | 542 / 7861 | 292 / 4241 | 542 / 7861 |
| | at 100 °C / 212 °F (77 %) | | 308 / 4467 | 485 / 7034 | 262 / 3797 | 485 / 7034 |
| Working Temperature | | (°C / °F) | -35 °C ... +100 °C / -31 °F ... +212 °F (momentary +120 °C / +248 °F) | | | |
| Inside Diameter | | (mm / in) | 2 / .08 | | 4 / .16 | |
| Outside Diameter | | (mm / in) | 5 / .20 | | 8,6 / .34 | |
| Bending Radius[1] | at working pressure | (mm / in) | 20 / .79 | | 40 / 1.57 | |
| | at -20 °C / 4 °F | | 30 / 1.18 | | 60 / 2.36 | |
| Max. Coil Length | | (m / ft) | 20 / 65.62 | | | |
| Weight / m | | (g / oz) | 16 / .50 | | 42 / 1.35 | |
| Inner / Outer Tube | | | PA | | | |
| Reinforcement | | | Synthetic Fibre | | | |
| Standard hose end material is Steel 11 S Mn Pb 30 (1.0718), zinc/ nickel-plated (Type 15: Steel, black zinc/nickel-plated) | | | | | | |
| Stainless Steel: V2A (1.4305/AISI 303), V4A (1.4571/AISI 316Ti) on request | | | | | | |

[1] Note: During mounting make sure that the bending radius for the test hose does not fall below the smallest permissible value.

## STAUFF Test Hoses (Selection)

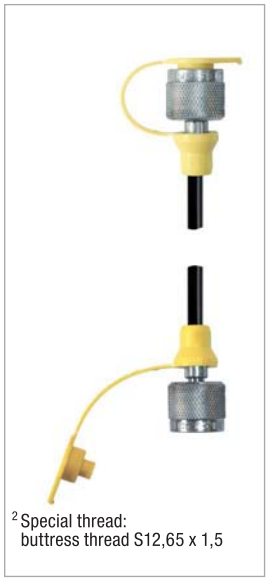
**STAUFF-Test 20/20**



**STAUFF-Test 15/15**



**STAUFF-Test 12/12[2]**



[2] Special thread:
buttress thread S12,65 x 1,5

**STAUFF-Test 10/10**

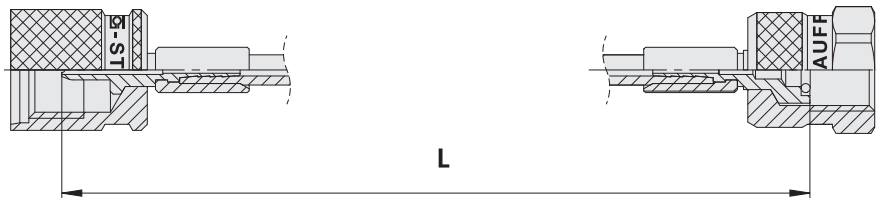


**Gauge Adaptor**



Dimensional drawings: All dimensions in mm (in).

## Ordering Codes STAUFF Test Hose




| SMS[1] | 20 | / M . . . . | 3000 | A | W3 |
|---|---|---|---|---|---|

| Hose End 1 (see page 64 - 69) | | | Hose End 2 (see page 64 - 69) | Length | DN | Material Hose End |
|---|---|---|---|---|---|---|
| 20 | A . . . . | J . . . . | only specify when 2 different hose ends are required | **Length mm** (*see L above)<br><br>Standard Length see table below. | A = DN 2 400 bar / 5802 PSI<br>B = DN 2 630 bar / 9137 PSI<br>C[2] = DN 4 340 bar / 4931 PSI<br>D[2] = DN 4 630 bar / 9137 PSI | Standard hose end material is Steel<br>11 S Mn Pb 30 (1.0718), zinc/nickel-plated = W3<br>Type 15: Steel, black zinc/nickel-plated = W3<br>Stainless Steel:<br>V2A (1.4305/AISI 303)= W4, on request<br>V4A (1.4571/AISI 316Ti) = W5, on request |
| 15 | S . . . . | D . . . . | | | | |
| 12 | K . . . . | B . . . . | | | | |
| 10 | L . . . . | U . . . . | | | | |
| M . . . . | G . . . . | P . . . . | | | | |
| N . . . . | F . . . . | etc. | | | | |
| W . . . . | C . . . . | | | | | |

[1] for gaseous media type SGS - Test hoses are perforated

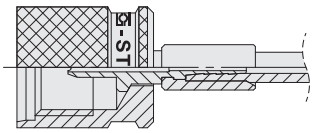
[2] Type C and D - are perforated

| Standard Length L* | |
|---|---|
| **mm** | **in** |
| 200 | 7.87 |
| 400 | 15.75 |
| 630 | 24.80 |
| 800 | 31.50 |
| 1000 | 39.37 |
| 1500 | 59.06 |
| 2000 | 78.74 |
| 2500 | 98.43 |
| 3200 | 125.98 |
| 4000 | 157.48 |



Bending protection on request.

## Ordering Codes Hose End



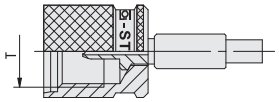
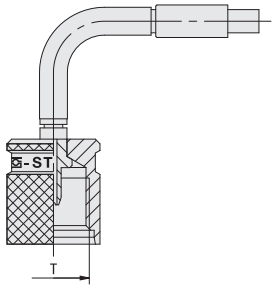
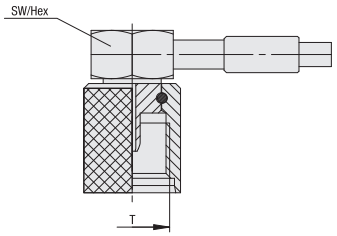
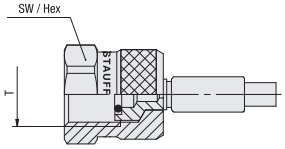
| HE | 20 | A | W3 |
|---|---|---|---|

| Hose End (see page 64 - 69) | | | DN | Material Hose End |
|---|---|---|---|---|
| 20 | A . . . . | J . . . . | A = DN 2<br>C = DN 4 | Standard hose end material is Steel<br>11 S Mn Pb 30 (1.0718), zinc/nickel-plated = W3<br>Type 15: Steel, black zinc/nickel-plated = W3<br>Stainless Steel:<br>V2A (1.4305/AISI 303) = W4, on request<br>V4A (1.4571/AISI 316Ti) = W5, on request |
| 15 | S . . . . | D . . . . | | |
| 12 | K . . . . | B . . . . | | |
| 10 | L . . . . | U . . . . | | |
| M . . . . | G . . . . | P . . . . | | |
| N . . . . | F . . . . | etc. | | |
| W . . . . | C . . . . | | | |

Dimensional drawings: All dimensions in mm (in).

C

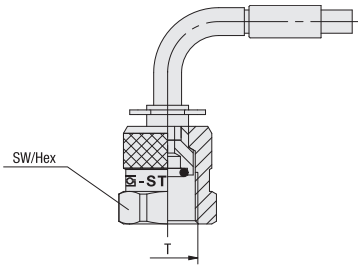
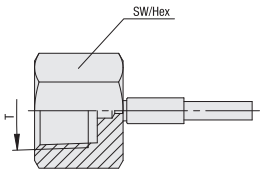
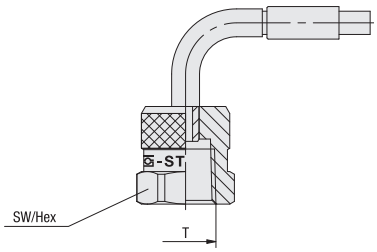
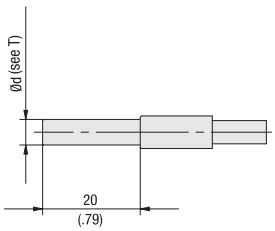
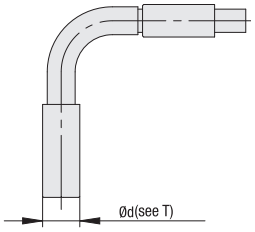
## STAUFF Hose End

| Hose End | Description | T | Hex (mm/in) | | DN | Working Pressure (bar/PSI) [1] | Type | |
|---|---|---|---|---|---|---|---|---|
|  | STAUFF-Test<br>Screw-type<br><br>suitable for test points | M16 x 2 | | | 2 and 4 | 630 / 9137 | | 20 |
| | | M16 x 1,5 | | | | | | 15 |
| | | S12,65 x 1,5 | | | | | | 12 |
|  | STAUFF-Test<br>Screw-type<br>90° elbow<br><br>suitable for test points | M16 x 2 | | | 2 | 630 / 9137 | 0 | 20 |
| | | M16 x 1,5 | | | | | | 15 |
| | | S12,65 x 1,5 | | | | | | 12 |
|  | STAUFF-Test<br>Screw-type<br>90° elbow<br><br>suitable for test points<br><br>(short wire version) | M16 x 2 | 17 | .67 | 2 | 630 / 9137 | 0X | 20 |
| | | M16 x 1,5 | | | | | | 15 |
| | | S12,65 x 1,5 | | | | | | 12 |
|  | STAUFF-Test<br>Plug in-type | Plug In System | | | 2 | 400 / 5801 | | 10 |
|  | Gauge adaptor<br>BSP-thread<br><br>for G3/8, G1/2,<br>M14 x 1,5 and M20 x 1,5<br>swivel nut like type N | G1/4 | 19 | .75 | 2 and 4 | 630 / 9137 | M | 1/4 |
| | | G1/2 | 27 | 1.06 | | | | 1/2 |
| | | G3/8 | 22 | .87 | 2 | 630 / 9137 | | 3/8 |
| | | M14 x 1,5 | 19 | .75 | | | | 14 |
| | | M20 x 1,5 | 27 | 1.06 | | | | 20 |

[1] The indicated working pressure applies only to the Hose End. The actual working pressure depends on the Test Hose used.

Dimensional drawings: All dimensions in mm (in).

## STAUFF Hose End

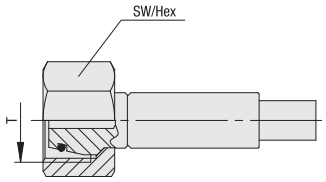
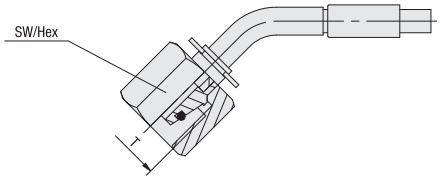
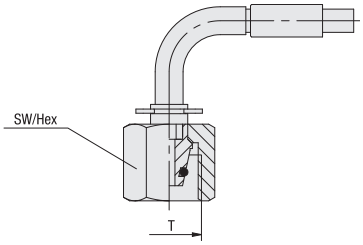
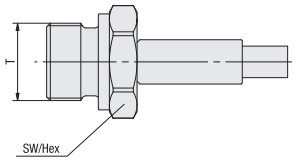
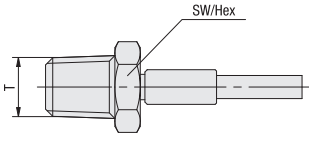
| Hose End | Description | T | Hex (mm / in) | | DN | Working Pressure (bar / PSI) [1] | Type | |
|---|---|---|---|---|---|---|---|---|
|  | 90° elbow<br>gauge adaptor<br>BSP-thread<br><br>for G1/2<br>swivel nut like type N | G1/4 | 19 | .75 | 2 and 4 | 630 / 9137 | W | 1/4 |
| | | G1/2 | 27 | 1.06 | | | | 1/2 |
|  | Gauge adaptor<br>NPT-thread<br><br>for 1/4 NPT<br>swivel nut like type M | 1/4 NPT | 19 | .75 | 2 | | N | 1/4 |
| | | 1/2 NPT | 27 | 1.06 | | | | 1/2 |
|  | 90° elbow<br>gauge adaptor<br>NPT-thread<br><br>for 1/2 NPT<br>swivel nut like type N | 1/4 NPT | 19 | .75 | 2 and 4 | | A | 1/4 |
| | | 1/2 NPT | 27 | 1.06 | | | | 1/2 |
|  | Standpipe<br>for compression ring fittings according to ISO 8434-1 / DIN 2353<br><br>Note:<br>Standpipe version is not in accordance with the state of the art. Use at own risk. We recommend the use of the series K, R or L. | 4 LL | | | 2 | 100 / 1450 | S | 04 |
| | | 6 L - 6 S | | | 2 and 4 | 630 / 9137 | | 06 |
| | | 8 L - 8 S | | | | | | 08 |
| | | 10 L - 10 S | | | | | | 10 |
| | | 12 L - 12 S | | | 2 | | | 12 |
| | | 1/4 | | | 2 and 4 | | | 1/4 |
|  | Standpipe<br>for compression ring fittings according to ISO 8434-1 / DIN 2353<br>90° elbow<br><br>Note:<br>Standpipe version is not in accordance with the state of the art. Use at own risk. We recommend the use of the series K, R or L. | 6 L - 6 S | | | 2 and 4 | 630 / 9137 | SG | 06 |
| | | 8 L - 8 S | | | | | | 08 |

[1] The indicated working pressure applies only to the Hose End. The actual working pressure depends on the Test Hose used.

Dimensional drawings: All dimensions in mm (in).

C

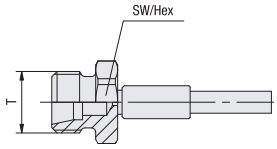
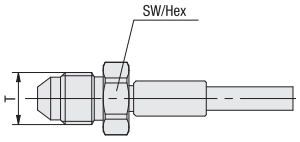
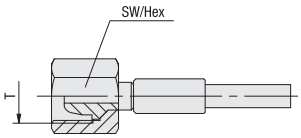
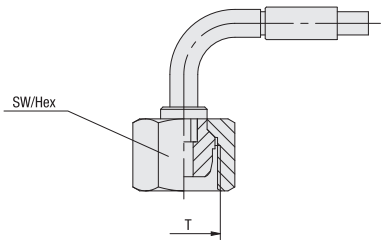
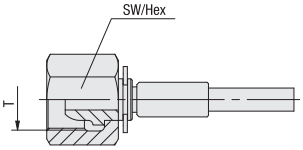
## STAUFF Hose End

| Hose End | Description | T | Hex (mm/in) | | DN | Working Pressure (bar/PSI) [1] | Type | |
|---|---|---|---|---|---|---|---|---|
|  | Seal with O-ring for 24° cone fitting according to ISO 8434-1 / DIN 2353 c/w swivel nut | M12 x 1,5 | 14 | .55 | 2 and 4 | 315 / 4568 | K | 06L |
| | | M14 x 1,5 | 17 | .67 | | | | 08L |
| | | M16 x 1,5 | 19 | .75 | | | | 10L |
| | | M18 x 1,5 | 22 | .87 | | | | 12L |
| | | M14 x 1,5 | 17 | .67 | | 630 / 9137 | | 06S |
| | | M16 x 1,5 | 19 | .75 | | | | 08S |
| | | M18 x 1,5 | 22 | .87 | | | | 10S |
| | | M20 x 1,5 | 24 | .94 | | | | 12S |
|  | Seal with O-ring for 24° cone fitting according to ISO 8434-1 / DIN 2353 c/w swivel nut 45° elbow | M12 x 1,5 | 14 | .55 | 2 and 4 | 315 / 4568 | R | 06L |
| | | M14 x 1,5 | 14 | .67 | | 315 / 4568 | | 06S |
|  | Seal with O-ring for 24° cone fitting according to ISO 8434-1 / DIN 2353 c/w swivel nut 90° elbow | M12 x 1,5 | 14 | .55 | 2 and 4 | 315 / 4568 | L | 06L |
| | | M14 x 1,5 | 17 | .67 | | | | 08L |
| | | M16 x 1,5 | 19 | .75 | | | | 10L |
| | | M14 x 1,5 | 17 | .67 | | 630 / 9137 | | 06S |
| | | M16 x 1,5 | 19 | .75 | | | | 08S |
| | | M18 x 1,5 | 24 | .94 | | | | 10S |
|  | Male thread according to DIN 3852-B | M12 x 1,5 | 17 | .67 | 2 and 4 | 630 / 9137 | G | 12 |
| | | G1/8 | 14 | .55 | | 400 / 5801 | | 1/8 |
| | | G1/4 | 19 | .75 | | 630 / 9137 | | 1/4 |
| | | G1/2 | 27 | 1.06 | | 630 / 9137 | | 1/2 |
|  | Male thread NPT according to ANSI-standard | 1/8 NPT | 13 | .51 | 2 and 4 | 400 / 5801 | F | 1/8 |
| | | 1/4 NPT | 17 | .67 | | 630 / 9137 | | 1/4 |

[1] The indicated working pressure applies only to the Hose End. The actual working pressure depends on the Test Hose used.

Dimensional drawings: All dimensions in mm (in).

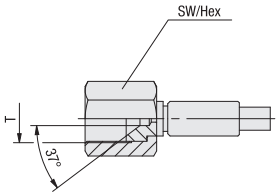
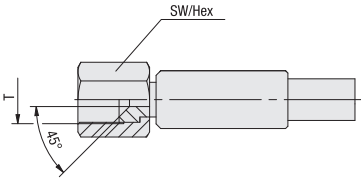
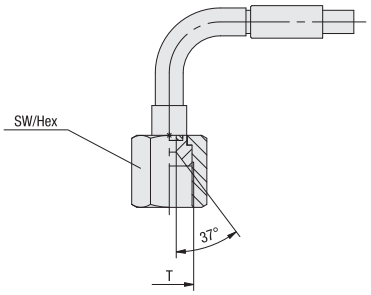
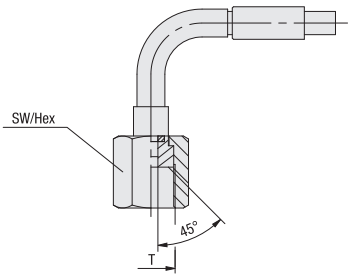
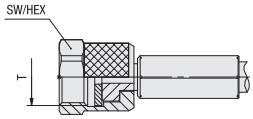
## STAUFF Hose End

| Hose End | Description | T | Hex (mm/in) | | DN | Working Pressure (bar/PSI) [1] | Type | |
|---|---|---|---|---|---|---|---|---|
|  | Male thread for 24° cone fitting according to ISO 8434-1 / DIN 2353 | M12 x 1,5 | 14 | .55 | 2 and 4 | 315 / 4568 | C | 06L |
| | | M14 x 1,5 | 17 | .67 | | | | 08L |
| | | M14 x 1,5 | 17 | .67 | | 630 / 9137 | | 06S |
| | | M16 x 1,5 | 17 | .67 | | | | 08S |
|  | Male thread according to SAE J 514 | 7/16–20 UNF | 14 | .55 | 2 and 4 | 350 / 5076 | J | 1/4 |
| | | 1/2–20 UNF | 14 | .55 | | | | 5/16 |
| | | 9/16–18 UNF | 17 | .67 | | | | 3/8 |
|  | Universal sealing head with swivel nut for 24° cone fitting according to ISO 8434-1 / DIN 2353 | M12 x 1,5 | 14 | .55 | 2 and 4 | 315 / 4568 | D | 06L |
| | | M14 x 1,5 | 17 | .67 | | | | 08L |
| | | M16 x 1,5 | 19 | .75 | | | | 10L |
| | | M18 x 1,5 | 22 | .87 | | | | 12L |
| | | M14 x 1,5 | 17 | .67 | | 630 / 9137 | | 06S |
| | | M16 x 1,5 | 19 | .75 | | | | 08S |
| | | M18 x 1,5 | 22 | .87 | | | | 10S |
| | | M20 x 1,5 | 24 | .94 | | | | 12S |
|  | Universal sealing head with swivel nut for 24° cone fitting according to ISO 8434-1 / DIN 2353 90° elbow | M16 x 1,5 | 19 | .75 | 2 and 4 | 315 / 4568 | Q | 10L |
| | | M18 x 1,5 | 22 | .87 | | 630 / 9137 | | 10S |
|  | Sealing head with swivel nut for cone fitting according to DIN EN 560 | G1/8 | 12 | .47 | 2 | | B | 1/8 |
| | | G1/4 | 17 | .67 | 2 and 4 | | | 1/4 |

[1] The indicated working pressure applies only to the Hose End. The actual working pressure depends on the Test Hose used.

Dimensional drawings: All dimensions in mm (in).

## STAUFF Hose End

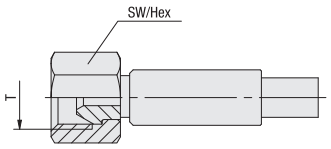
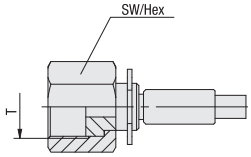
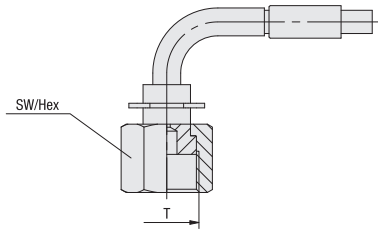
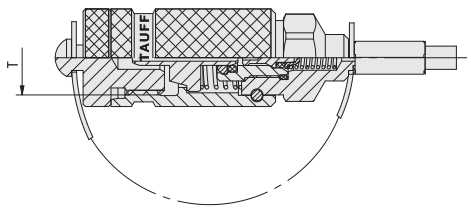
| Hose End | Description | T | Hex (mm/in) | | DN | Working Pressure (bar/PSI) [1] | Type | |
|---|---|---|---|---|---|---|---|---|
|  | Sealing head with swivel nut according to SAE J 514 37° cone | 7/16–20 UNF | 14 | .55 | 2 and 4 | 350 / 5076 | U | 1/4 |
| | | 1/2–20 UNF | 17 | .67 | | | | 5/16 |
| | | 9/16–18 UNF | 19 | .75 | | | | 3/8 |
|  | Sealing head with swivel nut according to SAE J 516 45° cone | 7/16–20 UNF | 14 | .55 | 2 | | UR | 1/4 |
|  | Sealing head with swivel nut according to SAE J 514 37° cone 90° elbow | 7/16–20 UNF | 14 | .55 | 2 and 4 | 350 / 5076 | E | 1/4 |
|  | Sealing head with swivel nut according to SAE J 516 45° cone 90° elbow | 7/16–20 UNF | 14 | .55 | 2 | | ER | 1/4 |
|  | Test hose for air brake systems according to ISO 3583 | M16 x 1,5 | 19 | .75 | 2 | | P | 02 |

[1] The indicated working pressure applies only to the Hose End. The actual working pressure depends on the Test Hose used.

Dimensional drawings: All dimensions in mm (in).

## STAUFF Hose End



| Hose End | Description | T | Hex (mm/in) | | DN | Working Pressure (bar/PSI) [1] | Type | |
|---|---|---|---|---|---|---|---|---|
|  | Sealing head with swivel nut 60° cone | G1/4 | 17 | .67 | 2 and 4 | 630 / 9137 | H | 1/4 |
|  | Screw-type ORFS according to SAE J 1453 | 9/16–18 UNF | 17 | .67 | 2 | | T | 9/16 |
| | | 11/16–16 UN | 21 | .83 | | | | 11/16 |
|  | Screw-type ORFS according to SAE J 1453 90° elbow | 11/16–16 UN | 21 | .83 | 2 and 4 | | V | 11/16 |
|  | Hose end with integrated check valve | M16 x 2 | | | 2 | 630 / 9137 | RV | 20 |
| | | M16 x 1,5 | | | | | | 15 |

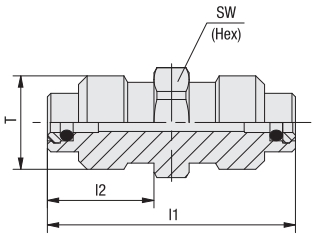
[1] The indicated working pressure applies only to the Hose End. The actual working pressure depends on the Test Hose used.

Dimensional drawings: All dimensions in mm (in).

C

## Hose Connector
## SSV






### Ordering Codes

***SSV*-20*-W3**

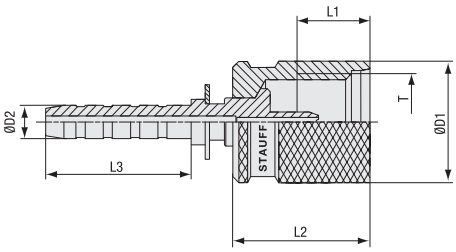
| | | |
|---|---|---|
| * Type | Hose Connector | **SSV** |
| * Series | STAUFF Test 20 | **-20** |
| | STAUFF Test 15 | **-15** |
| | STAUFF Test 12 | **-12** |
| * Material Code | Steel, zinc/nickel-plated | **-W3** |
| | Stainless Steel V2A - 1.4305 (AISI 303) | **-W4** |
| | Stainless Steel V4A - 1.4571 (AISI 316 Ti) | **-W5** |

| Thread | Dimensions (mm/in) | | | Weight (kg/lbs) ca. | Ordering Codes (Standard Option) |
|---|---|---|---|---|---|
| T | l1 | l2 | Hex | per 100 | |
| M16 x 2 | 42,5 | 18,5 | 17 | 4,60 | SSV-20-W3 |
| | 1.67 | .73 | .67 | 10.12 | |
| M16 x 1,5 | 42,5 | 18,5 | 17 | 4,79 | SSV-15-W3 |
| | 1.67 | .73 | .67 | 10.54 | |
| S12,65 x 1,5 | 31 | 12,5 | 14 | 2,50 | SSV-12-W3 |
| | 1.22 | .49 | .55 | 5.50 | |

Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

## Sampling Hose Adaptor
## SHA






### Ordering Codes

***SHA*-20*-5.5MM*-W3**

| | | |
|---|---|---|
| * Type | Sampling Hose Adaptor | **SHA** |
| * Series | STAUFF Test 20 | **-20** |
| * Size | Hose nipples | **-5.5MM** |
| * Material Code | Steel, zinc/nickel-plated | **-W3** |
| | Stainless Steel V2A - 1.4305 (AISI 303) | **-W4** |
| | Stainless Steel V4A - 1.4571 (AISI 316 Ti) | **-W5** |

| Dimensions (mm/in) | | | | | | Weight (kg/lbs) ca. | Ordering Codes (Standard Option) |
|---|---|---|---|---|---|---|---|
| Ød1 | Ød2 | l1 | l2 | l3 | T | per 100 | |
| 22 | 5,5 | 13 | 23 | 24 | M16 x 2 | 3,36 | SHA-20-5.5MM-W3 |
| .87 | .22 | .51 | .91 | .94 | | 7.39 | |

Alternative materials and surface finishings are available upon request. Contact STAUFF for further information.

Dimensional drawings: All dimensions in mm (in).