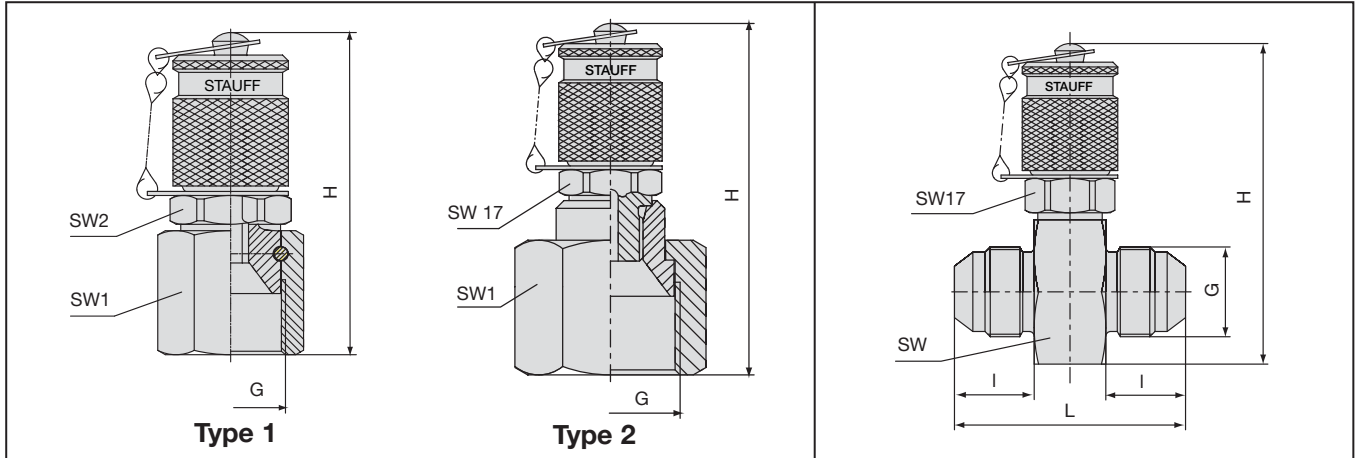




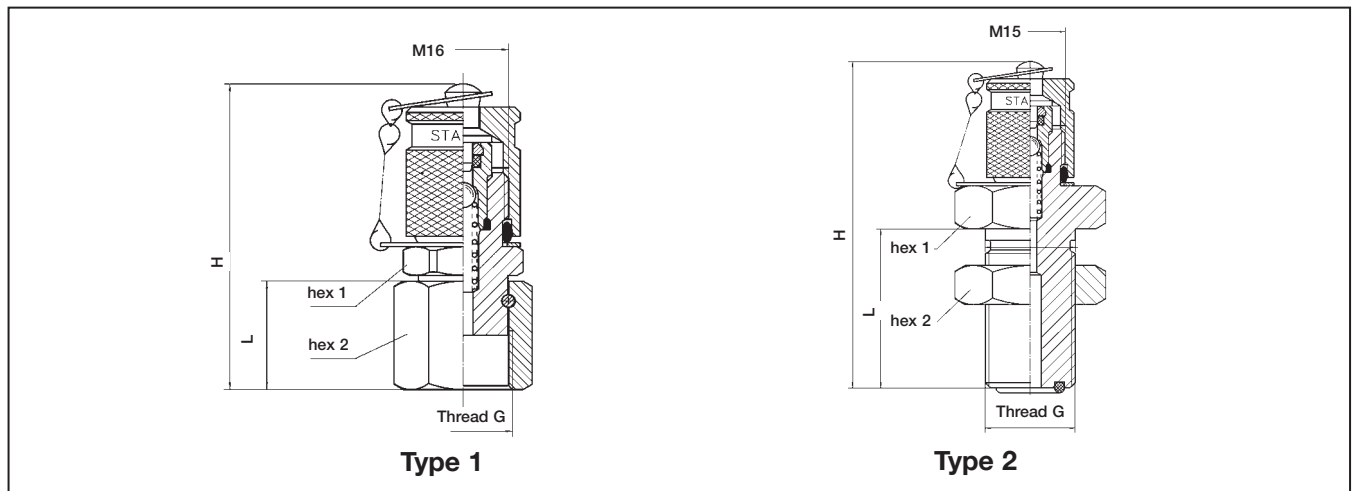
Test 20 Type SMK Connection Thread M 16 x 2

Test Coupling SMK – JIC Connection (to SAE-J514)



| Pipe Size inch | JIC Size | G UNF | H | | SW 1 | SW 2 | Type | Order No. | H | | SW | L | I | Order No. |
|----------------|----------|--------------|----|------|------|------|------|-------------------|----|------|----|------|------|-------------------|
| | | | mm | inch | | | | | mm | inch | | | | |
| 1/4" | - 4 | 7/16" - 20 | 52 | 2.0 | 17 | 17 | 1 | SMK20-JIC1/4-VK | 61 | 2.4 | 24 | 43 | 14 | SMK20-JIC1/4-VG |
| 5/16" | - 5 | 1/2" - 20 | 53 | 2.0 | 17 | 17 | 1 | SMK20-JIC5/16-VK | 61 | 2.4 | 24 | 43 | 14 | SMK20-JIC5/16-VG |
| 3/8" | - 6 | 9/16" - 18 | 55 | 2.1 | 19 | 17 | 1 | SMK20-JIC3/8-VK | 61 | 2.4 | 24 | 43.2 | 14.1 | SMK20-JIC3/8-VG |
| 1/2" | - 8 | 3/4" - 16 | 56 | 2.2 | 22 | 19 | 1 | SMK20-JIC1/2-VK | 67 | 2.6 | 30 | 48.4 | 16.7 | SMK20-JIC1/2-VG |
| 5/8" | - 10 | 7/8" - 14 | 59 | 2.3 | 27 | 22 | 1 | SMK20-JIC5/8-VK | 67 | 2.6 | 30 | 53.6 | 19.3 | SMK20-JIC5/8-VG |
| 3/4" | - 12 | 1-1/16" - 12 | 70 | 2.7 | 32 | | 2 | SMK20-JIC3/4-VK | 73 | 2.8 | 36 | 58.8 | 21.9 | SMK20-JIC3/4-VG |
| 1" | - 16 | 1-5/16" - 12 | 69 | 2.7 | 38 | | 2 | SMK20-JIC1-VK | 78 | 3.0 | 41 | 61.2 | 23.1 | SMK20-JIC1-VG |
| 1 1/4" | - 20 | 1-5/8" - 12 | 72 | 2.8 | 50 | | 2 | SMK20-JIC1 1/4-VK | 83 | 3.3 | 46 | 65.6 | 24.3 | SMK20-JIC1 1/4-VG |
| 1 1/2" | - 24 | 1-7/8" - 12 | 75 | 2.9 | 60 | | 2 | SMK20-JIC1 1/2-VK | 92 | 3.6 | 55 | 72 | 27.5 | SMK20-JIC1 1/2-VG |

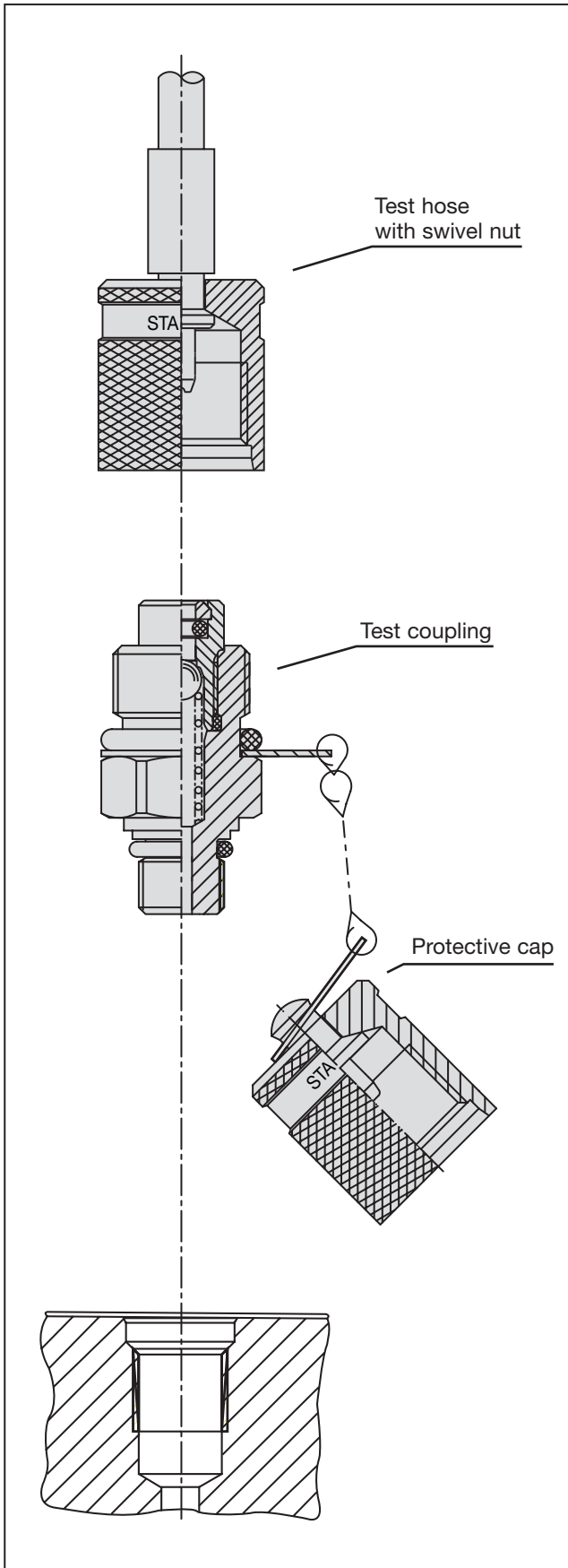
Test Coupling SSK/SMK – ORFS Connection



| Order Number | Type | Thread G | H | | L | | Hex 1 | | Hex 2 | |
|-----------------|------|-----------------|----|-----|----|------|-------|------|-------|------|
| | | | mm | in | mm | in | mm | in | mm | in |
| SSK20-04-ORFS-V | 2 | 9/16" - 18 UNF | 75 | 2.9 | 36 | 1.40 | 22 | 0.87 | 22 | 0.87 |
| SSK20-06-ORFS-V | 2 | 11/16" - 16 UNF | 75 | 2.9 | 36 | 1.40 | 27 | 1.06 | 27 | 1.06 |
| SSK20-08-ORFS-V | 2 | 13/16" - 16 UNF | 75 | 2.9 | 36 | 1.40 | 30 | 1.20 | 30 | 1.20 |
| SMK20-04-ORFS-V | 1 | 9/16" - 18 UNF | 54 | 2.1 | 19 | 0.75 | 17 | 0.67 | 17 | 0.67 |
| SMK20-06-ORFS-V | 1 | 11/16" - 16 UNF | 54 | 2.1 | 19 | 0.75 | 19 | 0.75 | 21 | 0.80 |
| SMK20-08-ORFS-V | 1 | 13/16" - 16 UNF | 54 | 2.1 | 19 | 0.75 | 22 | 0.87 | 24 | 0.87 |

* For EPDM seals replace "V" with "E"

TEST



Fast Coupling for:

- Monitoring and control of pressure
- Venting
- Sampling Fluids

Advantages:

- Test system at working pressure
- Connection is leakproof before **ball check** is open
- Simple connection to measurement, control and switching devices
- Self locking metal protective cap
- Minimizes introduction of contamination into hydraulic systems

Working Pressure:

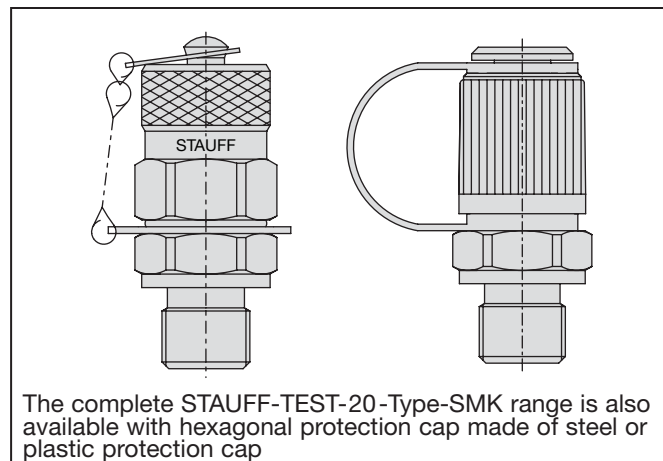
- Max. working pressure 9000 PSI (630 bar)
For SMK style G, K and S the recommended working pressure of fitting manufacturer should be noted
- Connection under pressure up to 5800 PSI (400 bar) max.

Materials:

- Metal parts: Steel, Stainless Steel on request
- Ball: Stainless Steel
- Seals:
 - Standard
V = FPM-VITON Temperature range - 4°F to +392°F (- 20° C to +200° C)
 - Optional
P = NBR-BUNA Temperature range - 4°F to +195°F (- 20° C to +90° C)
 - E = EPDM Ethylene Propylene (for Brake Fluid)
Temperature range - 40°F to +302°F (- 40° C to + 150° C)
- Hose: Polyamide Temperature range -31°F to +212°F (-35° C to +100° C)

Media:

- Suitable for hydraulic oils and other mineral based fluids (Check compatibility of seal material)
- For use with other liquid media, low viscosity media or gaseous media please consult STAUFF details
- SMK20 - 1/4" NPT - VD-ETG version available for severe shock / vibration applications



The complete STAUFF-TEST-20-Type-SMK range is also available with hexagonal protection cap made of steel or plastic protection cap



Test 20 Type SMK Connection Thread M 16 x 2

Test Coupling with Protective Cap SMK

| Thread G | h | | Hex | | Order No. | | Seal Type (see below) |
|---------------|----|------|-----|------|-------------------------|---------------------------|--------------------------|
| | mm | in | mm | in | NBR (BUNA) | FPM (VITON) (Standard) | |
| M8 x 1 | 37 | 1.46 | 17 | 0.67 | SMK 20 - M8 x 1 - PA | SMK 20 - M8 x 1 - VA | O-Ring Type A |
| M10 x 1 | 37 | 1.46 | 17 | 0.67 | SMK 20 - M10 x 1 - PA | SMK 20 - M10 x 1 - VA | O-Ring Type A |
| M12 x 1,5 | 37 | 1.46 | 17 | 0.67 | SMK 20 - M12 x 1.5 - PC | SMK 20 - M12 x 1.5 - VC | O-Ring Type C |
| M14 x 1,5 | 37 | 1.46 | 19 | 0.75 | SMK 20 - M14 x 1.5 - PB | SMK 20 - M14 x 1.5 - VB | Metal joint Type B |
| M16 x 1,5 | 37 | 1.46 | 22 | 0.87 | SMK 20 - M16 x 1.5 - PB | SMK 20 - M16 x 1.5 - VB | Metal joint Type B |
| G 1/8 | 39 | 1.54 | 17 | 0.67 | SMK 20 - G 1/8 - PC | SMK 20 - G 1/8 - VC | O-Ring Type C |
| G 1/4 | 37 | 1.46 | 19 | 0.75 | SMK 20 - G 1/4 - PB | SMK 20 - G 1/4 - VB | Metal joint Type B |
| G 1/4 | 37 | 1.46 | 19 | 0.75 | SMK 20 - G 1/4 - PC | SMK 20 - G 1/4 - VC | O-Ring Type C |
| G 3/8 | 37 | 1.46 | 22 | 0.87 | SMK 20 - G 3/8 - PB | SMK 20 - G 3/8 - VB | Metal joint Type B |
| R 1/8 taper | 37 | 1.46 | 17 | 0.67 | SMK 20 - R 1/8 K-PD | SMK 20 - R 1/8 K-VD | Taper Type D |
| R 1/4 taper | 36 | 1.42 | 17 | 0.67 | SMK 20 - R 1/4 K-PD | SMK 20 - R 1/4 K-VD | Taper Type D |
| 1/8 NPT | 36 | 1.42 | 17 | 0.67 | SMK 20 - 1/8 NPT-PD | SMK 20 - 1/8 NPT-VD | Taper Type D |
| 1/4 NPT | 35 | 1.38 | 17 | 0.67 | SMK 20 - 1/4 NPT-PD | SMK 20 - 1/4 NPT-VD | Taper Type D |
| 5/16 - 24 UNF | 38 | 1.50 | 17 | 0.67 | SMK 20 - 5/16 UNF-PE | SMK 20 - 5/16 UNF-VE | O-Ring Type E |
| 7/16 - 20 UNF | 38 | 1.50 | 17 | 0.67 | SMK 20 - 7/16 UNF-PE | SMK 20 - 7/16 UNF-VE | O-Ring Type E |
| 1/2 - 20 UNF | 38 | 1.50 | 17 | 0.67 | SMK 20 - 1/2 UNF-PE | SMK 20 - 1/2 UNF-VE | O-Ring Type E |
| 9/16 - 18 UNF | 37 | 1.46 | 19 | 0.75 | SMK 20 - 9/16 UNF-PE | SMK 20 - 9/16 UNF-VE | O-Ring Type E |
| 3/4 - 16 UNF | 37 | 1.46 | 19 | 0.75 | — | SMK 20 - 3/4 UNF-VE | O-Ring Type E |

To order hexagonal protection cap, add "SK" to part number. To order Plastic Protection cap, add "KK" to part number. Other port connections and seals on request.

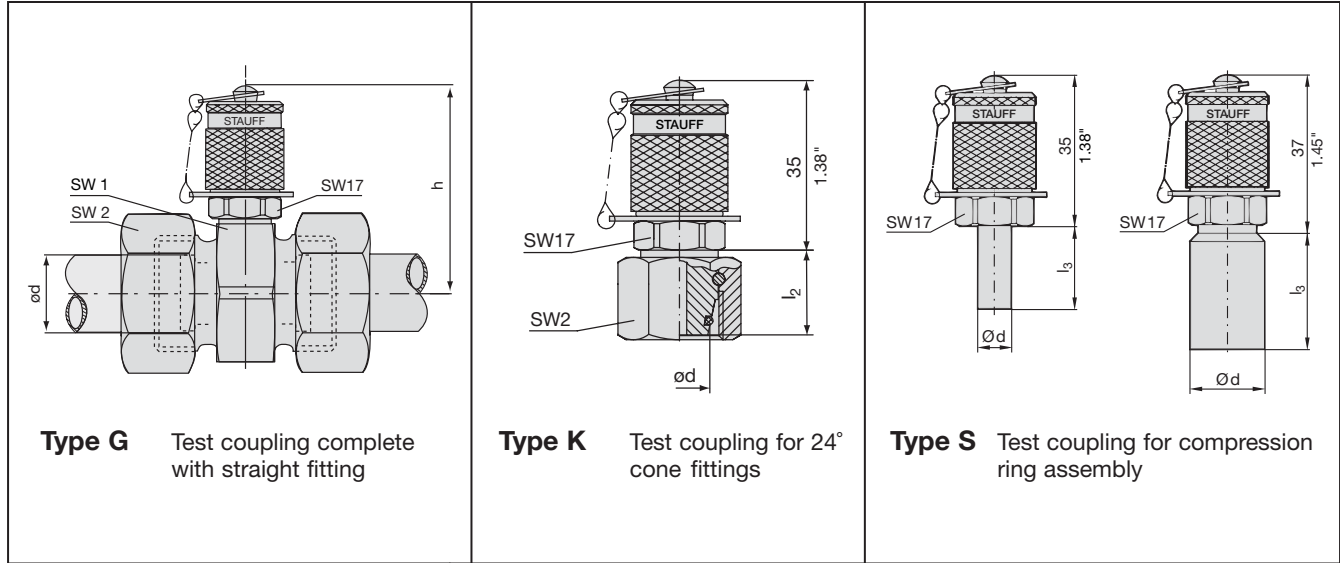
TEST

Port Connections and Seals

| Type A | | | | Type B | | | | | Type C | | | | | Type D | | | Type E (ISO 6149) | | | | | | |
|------------|----------------|----------------|----------------|-----------|----------------|----------------|----------------|------|-----------|----------------|----------------|----------------|------|-------------|----------------|----------------|-------------------|----------------|----------------|----------------|----------------|------|----|
| | | | | | | | | | | | | | | | | | | | | | | | |
| G | d ₁ | t ₁ | t ₂ | G | d ₁ | t ₁ | t ₂ | a | G | d ₁ | t ₁ | t ₂ | a | G | t ₁ | t ₂ | G | d ₁ | d ₂ | t ₁ | t ₂ | a | |
| | mm | mm | mm | | mm | mm | mm | mm | | mm | mm | mm | mm | | mm | mm | | | mm | mm | mm | mm | mm |
| | in | in | in | | in | in | in | in | | in | in | in | in | | in | in | | | in | in | in | in | in |
| M8 x 1 | 9,5 | 11 | 15,5 | M14 x 1,5 | 20 | 12 | 18,5 | 1,5 | M12 x 1,5 | 18 | 12 | 18,5 | 1,5 | R 1/8 taper | 5,5 | 9,5 | 5/16 - 24 UNF | 9,1 | 17 | 10 | 12 | 1,9 | |
| | 0.37 | 0.43 | 0.61 | | 0.79 | 0.47 | 0.73 | 0.06 | | 0.71 | 0.47 | 0.73 | 0.06 | | 0.22 | 0.37 | | 0.36 | 0.67 | 0.39 | 0.47 | 0.07 | |
| M10 x 1 | 11,5 | 12 | 16,5 | M16 x 1,5 | 22 | 12 | 18,5 | 1,5 | G 1/8 | 15 | 8 | 13 | 1,0 | R 1/4 taper | 8,5 | 13,5 | 7/16 - 20 UNF | 12,4 | 21 | 11,5 | 14 | 2,4 | |
| | 0.45 | 0.47 | 0.65 | | 0.87 | 0.47 | 0.73 | 0.06 | | 0.59 | 0.31 | 0.51 | 0.04 | | 0.33 | 0.53 | | 0.49 | 0.83 | 0.45 | 0.55 | 0.09 | |
| M10 x 1.25 | 11,5 | 12 | 16,5 | G 1/4 | 19 | 12 | 18,5 | 1,5 | G 1/4 | 19 | 12 | 18,5 | 1,5 | 1/8 NPT | 6,9 | 11,6 | 1/2 - 20 UNF | 14 | 23 | 11,5 | 14 | 2,4 | |
| | 0.45 | 0.47 | 0.65 | | 0.75 | 0.47 | 0.73 | 0.06 | | 0.75 | 0.47 | 0.73 | 0.06 | | 0.27 | 0.46 | | 0.55 | 0.91 | 0.45 | 0.55 | 0.09 | |
| | | | | G 3/8 | 23 | 12 | 18,5 | 2 | | | | | | 1/4 NPT | 10 | 16,4 | 9/16 - 18 UNF | 15,6 | 25 | 12,7 | 15,5 | 2,5 | |
| | | | | | 0.91 | 0.47 | 0.73 | 0.08 | | | | | | | 0.39 | 0.65 | | 0.61 | 0.98 | 0.50 | 0.61 | 0.10 | |
| | | | | | | | | | | | | | | | | | 3/4 - 16 UNF | 20,6 | 30,5 | 14,3 | 17,5 | 2,5 | |
| | | | | | | | | | | | | | | | | | | 0.81 | 1.20 | 0.56 | 0.69 | 0.10 | |

Test Coupling SMK (Compression Ring Fittings acc. to DIN 2353) - Metric Tubing

TEST



| Series | PN | Pipe Ød | l ₂ | | l ₃ | | h | | SW 1 | | SW 2 | | Order No.* | | |
|--------|-----|------------|----------------|------|----------------|------|------|------|------|------|------|------|-----------------|-----------------|----------------|
| | | | mm | in | mm | in | mm | in | mm | in | mm | in | Type G | Type K | Type S |
| L | 315 | 6 | 15,5 | 0.61 | 20 | 0.79 | 49 | 1.93 | 24 | 0.94 | 14 | 0.55 | SMK 20 – 6L-VG | SMK 20 – 6L-VK | SMK 20 – 6-VS |
| | | 8 | 15,5 | 0.61 | 20 | 0.79 | 49 | 1.93 | 24 | 0.94 | 17 | 0.67 | SMK 20 – 8L-VG | SMK 20 – 8L-VK | SMK 20 – 8-VS |
| | | 10 | 16,5 | 0.65 | 22 | 0.87 | 49 | 1.93 | 24 | 0.94 | 19 | 0.75 | SMK 20 – 10L-VG | SMK 20 – 10L-VK | SMK 20 – 10-VS |
| | | 12 | 17,5 | 0.69 | 22 | 0.87 | 50,5 | 1.99 | 27 | 1.06 | 22 | 0.87 | SMK 20 – 12L-VG | SMK 20 – 12L-VK | SMK 20 – 12-VS |
| | | 15 | 21 | 0.83 | 25 | 0.98 | 52 | 2.05 | 30 | 1.18 | 27 | 1.06 | SMK 20 – 15L-VG | SMK 20 – 15L-VK | SMK 20 – 15-VS |
| | | 18 | 19,5 | 0.77 | 28 | 1.10 | 53 | 2.09 | 32 | 1.26 | 32 | 1.26 | SMK 20 – 18L-VG | SMK 20 – 18L-VK | SMK 20 – 18-VS |
| | 160 | 22 | 20,5 | 0.81 | 30 | 1.18 | 55 | 2.17 | 36 | 1.42 | 36 | 1.42 | SMK 20 – 22L-VG | SMK 20 – 22L-VK | SMK 20 – 22-VS |
| | | 28 | 25 | 0.98 | 32 | 1.26 | 57,5 | 2.26 | 41 | 1.61 | 41 | 1.61 | SMK 20 – 28L-VG | SMK 20 – 28L-VK | SMK 20 – 28-VS |
| | | 35 | 30 | 1.18 | 42 | 1.65 | 60 | 2.36 | 46 | 1.81 | 50 | 1.97 | SMK 20 – 35L-VG | SMK 20 – 35L-VK | SMK 20 – 35-VS |
| | | 42 | 31 | 1.22 | 45 | 1.77 | 64,5 | 2.54 | 55 | 2.17 | 60 | 2.36 | SMK 20 – 42L-VG | SMK 20 – 42L-VK | SMK 20 – 42-VS |
| S | 630 | 6 | 14,5 | 0.57 | 20 | 0.79 | 49 | 1.93 | 24 | 0.94 | 17 | 0.67 | SMK 20 – 6S-VG | SMK 20 – 6S-VK | SMK 20 – 6-VS |
| | | 8 | 16,5 | 0.65 | 20 | 0.79 | 49 | 1.93 | 24 | 0.94 | 19 | 0.75 | SMK 20 – 8S-VG | SMK 20 – 8S-VK | SMK 20 – 8-VS |
| | | 10 | 16,5 | 0.65 | 22 | 0.87 | 49 | 1.93 | 24 | 0.94 | 22 | 0.87 | SMK 20 – 10S-VG | SMK 20 – 10S-VK | SMK 20 – 10-VS |
| | | 12 | 17,5 | 0.69 | 22 | 0.87 | 49 | 1.93 | 24 | 0.94 | 24 | 0.94 | SMK 20 – 12S-VG | SMK 20 – 12S-VK | SMK 20 – 12-VS |
| | | 14 | 19,5 | 0.77 | 22 | 0.87 | 50,5 | 1.99 | 27 | 1.06 | 27 | 1.06 | SMK 20 – 14S-VG | SMK 20 – 14S-VK | SMK 20 – 14-VS |
| | 400 | 16 | 18 | 0.71 | 28 | 1.10 | 52 | 2.05 | 30 | 1.18 | 30 | 1.18 | SMK 20 – 16S-VG | SMK 20 – 16S-VK | SMK 20 – 16-VS |
| | | 20 | 24 | 0.94 | 30 | 1.18 | 55 | 2.17 | 36 | 1.42 | 36 | 1.42 | SMK 20 – 20S-VG | SMK 20 – 20S-VK | SMK 20 – 20-VS |
| | | 25 | 26 | 1.02 | 36 | 1.42 | 57,5 | 2.26 | 41 | 1.61 | 46 | 1.81 | SMK 20 – 25S-VG | SMK 20 – 25S-VK | SMK 20 – 25-VS |
| | | 30 | 30 | 1.18 | 41 | 1.61 | 60 | 2.36 | 46 | 1.81 | 50 | 1.97 | SMK 20 – 30S-VG | SMK 20 – 30S-VK | SMK 20 – 30-VS |
| | | 315 | 38 | 1.34 | 48 | 1.89 | 64,5 | 2.54 | 55 | 2.17 | 60 | 2.36 | SMK 20 – 38S-VG | SMK 20 – 38S-VK | SMK 20 – 38-VS |

* For EPDM seals replace "V" with "E"