
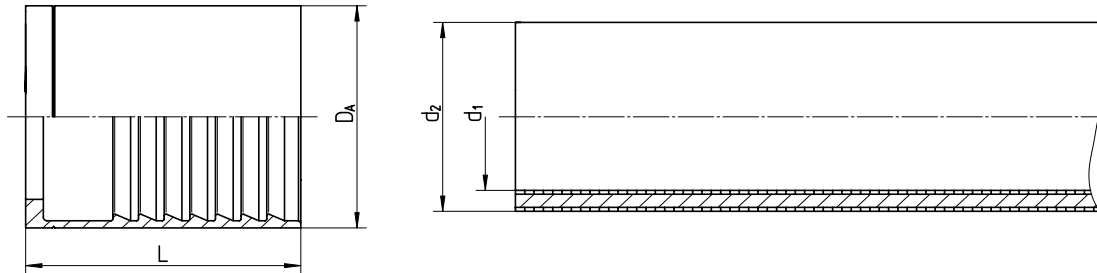


| | | | | | | |
|----------|----------|----------------|--|-----------------|-----|---|
| | Datum | Änderungsstand | | Pressmaßtabelle | 8-2 |  |
| Stand | 30.07.08 | A | | Crimping Table | | |
| Geprüft: | 30.07.08 | Romisch | | | | |

Schlauchtyp 2TE - DIN EN 854 - no skive - 05-...

Pressarmaturen: 1.Serie




| DN | Nenndurchmesser I.D. HOSE | | Fassung FERRULE PART NUMBER | AD Schlauch O.D. HOSE d ₂ mm | AD Draht O.D. WIRE d ₃ mm +/- 0,4 | D _A mm | L mm | Schällängen SKIVING LENGTH | | Richtpressmaß CRIMPING DIAMETER mm | Nippelinfeld reduction of the internal fitting diametre mm min...max |
|----|------------------------------|------|-----------------------------------|--|---|--------------------------|-------------|--|---|--|---|
| | INCH | SIZE | | | | | | Innen IN L _I mm +1 / 0 | Außen OUT L _A mm +1 / 0 | | |
| 5 | 3/16" | 03 | 111-03 | 11,0...12,6 | - | 17,0 | 27,3 | 0,0 | 0,0 | 14,0 | 0,0 |
| 6 | 1/4" | 04 | 111-04 | 12,6...14,2 | - | 19,5 | 30,2 | 0,0 | 0,0 | 16,5 | 0,0 |
| 8 | 5/16" | 05 | 111-05 | 14,1...15,7 | - | 20,6 | 30,2 | 0,0 | 0,0 | 17,9 | 0,0 |
| 10 | 3/8" | 06 | 111-06 | 15,7...17,3 | - | 23,2 | 32,0 | 0,0 | 0,0 | 19,9 | 0,0 |
| 12 | 1/2" | 08 | 111/121-08 | 18,7...20,7 | - | 28,2 | 34,0 | 0,0 | 0,0 | 23,0 | 0,0 |
| 16 | 5/8" | 10 | 111/121-10 | 22,9...24,9 | - | 31,5 | 36,8 | 0,0 | 0,0 | 26,8 | 0,0 |
| 19 | 3/4" | 12 | 111/121-12 | 26,0...28,0 | - | 35,3 | 42,5 | 0,0 | 0,0 | 30,1 | 0,0 |
| 25 | 1" | 16 | 111-16 | 32,9...35,9 | - | 42,7 | 50,5 | 0,0 | 0,0 | 37,6 | 0,0 |
| 31 | 1 1/4" | 20 | 110-20 | 41,5 | - | 50,0 | 59,0 | 0,0 | 0,0 | 47,6 | 0,0 |

Ermittlung der Werte anhand von Schläuchen der Firmen: Phoenix, Semperit.

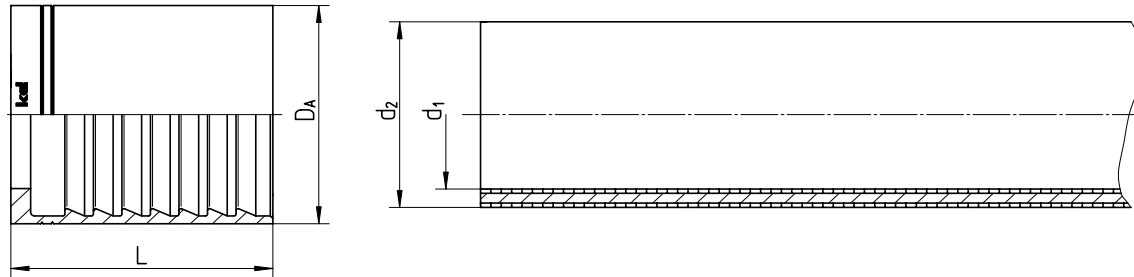
*Die Pressmaße und Schällängen sind Richtwerte. Das ordnungsgemäße Verpressen der Armaturen ist vom Schlauchleitungshersteller mit entsprechenden Mitteln (z.B. Prüfen des Nippelinfelds mittels Dorn) zu prüfen.

* The crimping diametre and the skive length is a guideline. The proper crimping of the fitting needs to be verified by the hose manufacturer with appropriate tools (e.g. reduction of the internal fitting diameter with help of a test pin)

| | | | | | | |
|----------|----------|----------------|--|-----------------|-----|---|
| | Datum | Änderungsstand | | Pressmaßtabelle | 8-3 |  |
| Stand | 03.05.11 | C | | Crimping Table | | |
| Geprüft: | 03.05.11 | Hegenberg | | | | |

Schlauchtyp 3TE - DIN EN 854 - no skive - 06-...

Pressarmaturen: 1.Serie




| Nenndurchmesser I.D. HOSE | | | Fassung FERRULE PART NUMBER | AD Schlauch O.D. HOSE | AD Draht O.D. WIRE | D _A | L | Schällängen SKIVING LENGTH | | Richtpressmaß CRIMPING DIAMETER | Nippeleinfall reduction of the internal fitting diametre |
|------------------------------|--------|------|-----------------------------------|--------------------------|------------------------------|---------------------|------|-------------------------------|--------------------------------|------------------------------------|--|
| DN | INCH | SIZE | | | | | | Innen IN L _I | Außen OUT L _A | | |
| | | | | d ₂ mm | d ₃ mm +/- 0,4 | mm | mm | mm +1 / 0 | mm +1 / 0 | mm | mm min...max |
| 5 | 3/16" | 03 | 121-03 | 12,0...13,6 | - | 18,6 | 27,3 | 0,0 | 0,0 | 15,2 | 0 |
| 6 | 1/4" | 04 | 121-04 | 13,6...15,2 | - | 20,6 | 30,2 | 0,0 | 0,0 | 17,5 | 0,0 |
| 8 | 5/16" | 05 | 121-05 | 16,1...17,7 | - | 22,3 | 30,2 | 0,0 | 0,0 | 19,4 | 0,0 |
| 10 | 3/8" | 06 | 121-06 | 17,7...19,3 | - | 25,0 | 32,0 | 0,0 | 0,0 | 21,3 | 0,0 |
| 12 | 1/2" | 08 | 111/121-08 | 20,7...22,7 | - | 28,2 | 34,0 | 0,0 | 0,0 | 24,6 | 0,0 |
| 16 | 5/8" | 10 | 111/121-10 | 24,9...26,9 | - | 31,5 | 36,8 | 0,0 | 0,0 | 28,2 | 0,0 |
| 19 | 3/4" | 12 | 111/121-12 | 28,0...30,0 | - | 35,3 | 42,5 | 0,0 | 0,0 | 32,1 | 0,0 |
| 25 | 1" | 16 | 121-16 | 34,4...37,4 | - | 45,0 | 50,5 | 0,0 | 0,0 | 40,0 | 0,0 |
| 32 | 1 1/4" | 20 | 120-20 | 40,8...43,8 | - | 55,0 ^[C] | 59,0 | 0,0 | 0,0 | 50,0 | 0,0 |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
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| | | | | | | | | | | | |

Ermittlung der Werte anhand von Schläuchen der Firmen: Phoenix

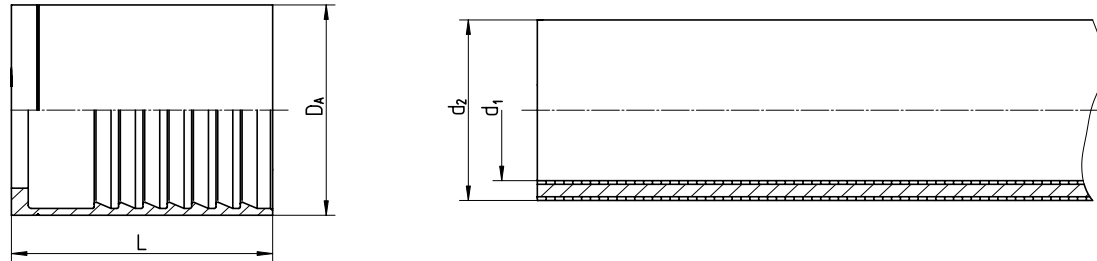
*Die Pressmaße und Schällängen sind Richtwerte. Das ordnungsgemäße Verpressen der Armaturen ist vom Schlauchleitungshersteller mit entsprechenden Mitteln (z.B. Prüfen des Nippeleinfalls mittels Dorn) zu prüfen.

* The crimping diametre and the skive length is a guideline. The proper crimping of the fitting needs to be verified by the hose manufacturer with appropriate tools (e.g. reduction of the internal fitting diameter with help of a test pin)

| | | | | | | |
|----------|----------|----------------|--|-----------------|-----|---|
| | Datum | Änderungsstand | | Pressmaßtabelle | 8-5 |  |
| Stand | 12.11.10 | B | | | | |
| Geprüft: | 12.11.10 | Hegenberg | | | | |

Schlauchtyp R7 - DIN EN 855 - no skive - R7-...


Pressarmaturen: 1.Serie



| DN | Nenn Durchmesser I.D. HOSE | | Fassung FERRULE PART NUMBER | Schlauch- Lieferant | AD Schlauch O.D. HOSE d ₂ mm max. | AD Draht O.D. WIRE d ₃ mm +/- 0,4 | D _A mm | L mm | Schällängen SKIVING LENGTH | | Richtpressmaß CRIMPING DIAMETER mm | Nippeleinfall reduction of the internal fitting diametre mm min...max |
|----|-------------------------------|------|-----------------------------------|------------------------|---|---|--------------------------|-------------|--|---|--|--|
| | INCH | SIZE | | | | | | | Innen IN L _I mm +1 / 0 | Außen OUT L _A mm +1 / 0 | | |
| 4 | 1/8" | 02 | FR7-02 | ZEC OL7 | 8,9 | - | 13,0 | 20,0 | | | 11,1 | 0 ... 0,1 |
| 4 | 1/8" | 02 | FR7-02 | TECALAN BF4 | 9,2 | - | 13,0 | 20,0 | | | 11,3 | 0 ... 0,1 |
| 5 | 3/16" | 03 | 111-03 | | 10 | - | 17,0 | 27,3 | | | 13,8 | 0,0 |
| 6 | 1/4" | 04 | 111-04 | | 11,8 | - | 19,5 | 30,2 | | | 15,8 (B) | 0,0 |
| 8 | 5/16" | 05 | 111-05 | | 14,3 | - | 20,6 | 30,2 | | | 17,2 | 0,0 |
| 10 | 3/8" | 06 | 111-06 | | 16,0 | - | 23,2 | 32,0 | | | 19,9 | 0,0 |
| 12 | 1/2" | 08 | 111/121-08 | | 20,3 | - | 28,2 | 34,0 | | | 23,4 | 0,0 |

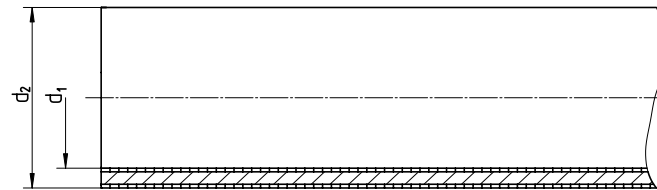
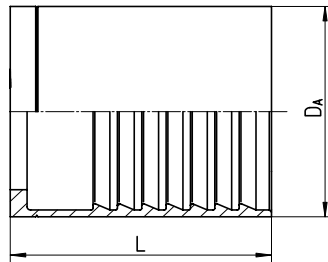
*Die Pressmaße und Schällängen sind Richtwerte. Das ordnungsgemäße Verpressen der Armaturen ist vom Schlauchleitungshersteller mit entsprechenden Mitteln (z.B. Prüfen des Nippeleinfalls mittels Dorn) zu prüfen.

* The crimping diametre and the skive length is a guideline. The proper crimping of the fitting needs to be verified by the hose manufacturer with appropriate tools (e.g. reduction of the internal fitting diametre with help of a test pin)

| | | | | | | |
|----------|----------|----------------|--|-----------------------------------|-----|---|
| | Datum | Änderungsstand | | Pressmaßtabelle Crimping Table | 8-6 |  |
| Stand | 02.12.09 | A | | | | |
| Geprüft: | 02.12.09 | Hegenberg | | | | |


Schlauchtyp R8 - DIN EN 855 - no skive - R8-...

Pressarmaturen: 1.Serie



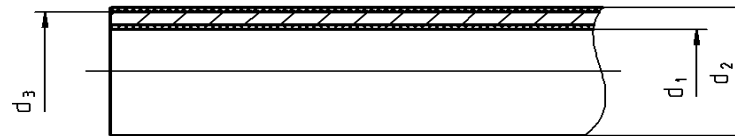
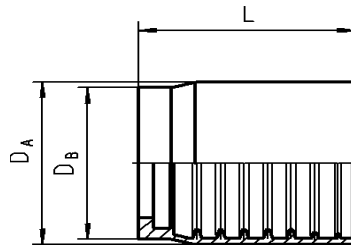
| Nenndurchmesser I.D. HOSE | | | Fassung FERRULE PART NUMBER | AD Schlauch O.D. HOSE | AD Draht O.D. WIRE | D _A | L | Schällängen SKIVING LENGTH | | Richtpressmaß CRIMPING DIAMETER | Nippeleinfall reduction of the internal fitting diametre |
|------------------------------|-------|------|-----------------------------------|---------------------------|------------------------------|----------------|------|-------------------------------|--------------------------------|------------------------------------|--|
| DN | INCH | SIZE | | | | | | Innen IN L _I | Außen OUT L _A | | |
| | | | | d ₂ mm max. | d ₃ mm +/- 0,4 | mm | mm | mm +1 / 0 | mm +1 / 0 | mm | mm min...max |
| 5 | 3/16" | 03 | 111-03 | | - | 17,0 | 27,3 | - | - | | - |
| 6 | 1/4" | 04 | 111-04 | 11,8 | - | 19,5 | 30,2 | - | - | | - |
| 8 | 5/16" | 05 | 111-05 | 14,3 | - | 20,6 | 30,2 | - | - | 17,9 | - |
| 10 | 3/8" | 06 | 111-06 | 16,0 | - | 23,2 | 32,0 | - | - | 20,2 | - |
| 12 | 1/2" | 08 | 111/121-08 | 20,3 | - | 28,2 | 34,0 | - | - | 23,7 | - |
| 16 | 5/8" | 10 | 111/121-10 | 24,5 | - | 31,5 | 36,8 | - | - | 27,6 | - |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

*Die Pressmaße und Schällängen sind Richtwerte. Das ordnungsgemäße Verpressen der Armaturen ist vom Schlauchleitungshersteller mit entsprechenden Mitteln (z.B. Prüfen des Nippeleinfalls mittels Dorn) zu prüfen.
 * The crimping diametre and the skive length is a guideline. The proper crimping of the fitting needs to be verified by the hose manufacturer with appropriate tools (e.g. reduction of the internal fitting diameter with help of a test pin)

| | | | | | | |
|----------|----------|----------------|--|-----------------|-----|---|
| | Datum | Änderungsstand | | Pressmaßtabelle | 8-7 |  |
| Stand | 26.03.07 | B | | Crimping Table | | |
| Geprüft: | 26.03.07 | Hegenberg | | | | |

Schlauchtyp 1SC - DIN EN 857 - no skive - 19-...

Pressarmaturen: 1.Serie




| DN | Nenn Durchmesser I.D. HOSE | | Fassung FERRULE PART NUMBER | AD Schlauch O.D. HOSE d ₂ mm max. | AD Draht O.D. WIRE d ₃ mm +/- 0,4 | D _A mm | L mm | Schällängen SKIVING LENGTH | | Richtpressmaß CRIMPING DIAMETER mm | Nippeleinfall reduction of the internal fitting diametre mm min...max |
|----|-------------------------------|------|-----------------------------------|---|---|----------------------|---------|--|---|--|--|
| | INCH | SIZE | | | | | | Innen IN L _I mm +1 / 0 | Außen OUT L _A mm +1 / 0 | | |
| 6 | 1/4" | 04 | 101-04-1SC | 13,5 | 9,6 ... 10,8 | 20,0 | 30,0 | ohne | ohne | 15,8 | 0,3 ... 0,6 |
| 8 | 5/16" | 05 | 101-05-1SC | 14,5 | 10,9 ... 12,1 | 22,0 | 30,0 | ohne | ohne | 19,0 | 0,3 ... 0,7 |
| 10 | 3/8" | 06 | 101-06-1SC | 16,9 | 12,7 ... 14,5 | 24,0 | 32,0 | ohne | ohne | 20,6 | 0,3 ... 0,7 |
| 12 | 1/2" | 08 | 101-08 | 20,4 | 15,9 ... 18,1 | 30,0 | 34,0 | ohne | ohne | 24,3 | 0,3 ... 0,7 |
| 16 | 5/8" | 10 | 101-10 | 23,0 | 19,8 ... 21,0 | 34,0 | 37,0 | ohne | ohne | 27,1 | 0,4 ... 0,9 |
| 19 | 3/4" | 12 | 101-12 | 26,7 | 23,2 ... 24,4 | 38,0 | 42,5 | ohne | ohne | 30,7 | 0,4 ... 1,0 |
| 25 | 1" | 16 | 101-16 | 34,9 | 30,7 ... 31,9 | 48,0 | 51,0 | ohne | ohne | 39,6 | 0,5 ... 1,2 |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

Ermittlung der Werte anhand von Schläuchen der Firmen: Semperit, Phoenix

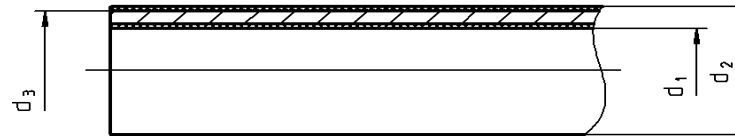
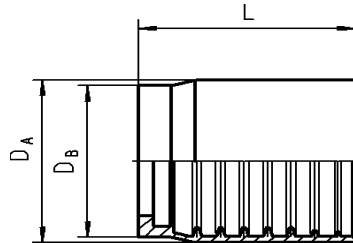
*Die Pressmaße und Schällängen sind Richtwerte. Das ordnungsgemäße Verpressen der Armaturen ist vom Schlauchleitungshersteller mit entsprechenden Mitteln (z.B. Prüfen des Nippeleinfalls mittels Dorn) zu prüfen.

* The crimping diametre and the skive length is a guideline. The proper crimping of the fitting needs to be verified by the hose manufacturer with appropriate tools (e.g. reduction of the internal fitting diametre with help of a test pin)

| | | | | | | |
|----------|----------|----------------|--|-----------------|-----|---|
| | Datum | Änderungsstand | | Pressmaßtabelle | 8-8 |  |
| Stand | 20.12.05 | A | | | | |
| Geprüft: | 20.12.05 | Hegenberg | | Crimping Table | | |

Schlauchtyp 2SC - DIN EN 857 - no skive - 29-...

Pressarmaturen: 1.Serie




| DN | Nenn Durchmesser I.D. HOSE | | Fassung FERRULE PART NUMBER | AD Schlauch O.D. HOSE | AD Draht O.D. WIRE | D _A | L | Schällängen SKIVING LENGTH | | Richtpressmaß CRIMPING DIAMETER | Nippeleinfall reduction of the internal fitting diameter |
|----|-------------------------------|------|-----------------------------------|---------------------------|----------------------------------|----------------|------|-------------------------------|--------------------------------|------------------------------------|--|
| | INCH | SIZE | | | | | | Innen IN L _I | Außen OUT L _A | | |
| | | | | d ₂ mm max. | d ₃ mm/min ... max | mm | mm | mm +1 / 0 | mm +1 / 0 | mm | mm min...max |
| 6 | 1/4" | 04 | 101-04 | 14,2 | 10,6 ... 11,6 | 22,0 | 30,0 | ohne | ohne | 17,5 | 0,1 ... 0,4 |
| 8 | 5/16" | 05 | 101-05 | 16,0 | 12,1 ... 13,3 | 24,0 | 30,0 | ohne | ohne | 19,1 | 0,1 ... 0,5 |
| 10 | 3/8" | 06 | 101-06 | 18,3 | 14,4 ... 15,6 | 27,0 | 32,0 | ohne | ohne | 21,8 | 0,3 ... 0,7 |
| 12 | 1/2" | 08 | 101-08 | 21,5 | 17,5 ... 19,1 | 30,0 | 34,0 | ohne | ohne | 25,0 | 0,4 ... 0,8 |
| 16 | 5/8" | 10 | 101-10 | 24,7 | 20,5 ... 22,3 | 34,0 | 37,0 | ohne | ohne | 27,8 | 0,4 ... 1,0 |
| 19 | 3/4" | 12 | 101-12 | 28,6 | 24,6 ... 26,4 | 38,0 | 42,5 | ohne | ohne | 31,4 | 0,4 ... 0,9 |
| 25 | 1" | 16 | 101-16 | 36,6 | 32,5 ... 34,3 | 48,0 | 51,0 | ohne | ohne | 41,0 | 0,5 ... 1,2 |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

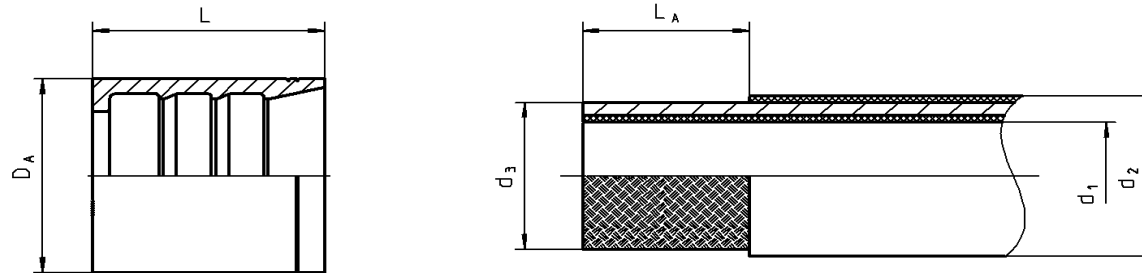
Ermittlung der Werte anhand von Schläuchen der Firmen: Semperit

*Die Pressmaße und Schällängen sind Richtwerte. Das ordnungsgemäße Verpressen der Armaturen ist vom Schlauchleitungshersteller mit entsprechenden Mitteln (z.B. Prüfen des Nippeleinfalls mittels Dorn) zu prüfen.

* The crimping diameter and the skive length is a guideline. The proper crimping of the fitting needs to be verified by the hose manufacturer with appropriate tools (e.g. reduction of the internal fitting diameter with help of a test pin)

| | | | | | | |
|----------|----------|----------------|--|-----------------------------------|-----|---|
| | Datum | Änderungsstand | | Pressmaßtabelle Crimping Table | 8-9 |  |
| Stand | 30.11.05 | A | | | | |
| Geprüft: | 30.11.05 | Hegenberg | | | | |

Schlauchtyp 2SC - DIN EN 857 - skive - 29-...




| DN | Nenndurchmesser I.D. HOSE | | Fassung FERRULE PART NUMBER | AD Schlauch O.D. HOSE max. d ₂ | AD Draht O.D. WIRE d ₃ mm +/- 0,4 | D _A mm | L mm | Schällängen SKIVING LENGTH | | Richtpressmaß CRIMPING DIAMETER mm | Nippeleinfall reduction of the internal fitting diametre mm min...max |
|----|------------------------------|------|-----------------------------------|--|---|----------------------|---------|--|---|--|--|
| | INCH | SIZE | | | | | | Innen IN L _I mm +1 / 0 | Außen OUT L _A mm +1 / 0 | | |
| 6 | 1/4" | 04 | 110-04 | 14,2 | 11,1 | 18,8 | 30,2 | ohne | 23,5 | 15,9 (a;b) | 0,1...0,4 |
| 8 | 5/16" | 05 | 110-05 | 16,0 | 12,7 | 20,4 | 30,2 | ohne | 24,0 | 18,0 (b) | 0,1...0,5 |
| 10 | 3/8" | 06 | 110-06 | 18,3 | 15,0 | 23,6 | 32,0 | ohne | 25,0 | 20,8 (b) | 0,3...0,7 |
| 12 | 1/2" | 08 | 110-08 | 21,5 | 18,3 | 28,4 | 34,0 | ohne | 25,0 | 25,3 (b) | 0,4...0,8 |
| 16 | 5/8" | 10 | 110-10 | 24,7 | 21,4 | 31,5 | 36,8 | ohne | 29,0 | 28,5 (a) | 0,4...0,9 |
| 19 | 3/4" | 12 | 110-12 | 28,6 | 25,5 | 36,3 | 42,5 | ohne | 32,0 | 32,2 (b) | 0,4...1,0 |
| 25 | 1" | 16 | 110-16 | 36,6 | 33,4 | 42,6 | 50,8 | ohne | 38,0 | 39,5 (b) | 0,5...1,2 |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

Ermittlung der Werte anhand von Schläuchen der Firmen: Phoenix (a), Semperit (b)

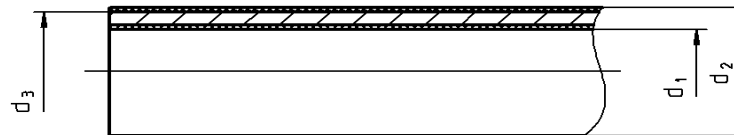
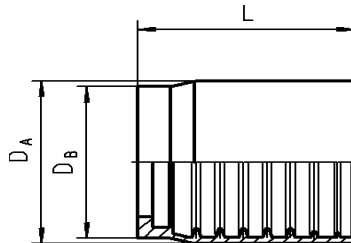
*Die Pressmaße und Schällängen sind Richtwerte. Das ordnungsgemäße Verpressen der Armaturen ist vom Schlauchleitungshersteller mit entsprechenden Mitteln (z.B. Prüfen des Nippeleinfalls mittels Dorn) zu prüfen.

* The crimping diametre and the skive length is a guideline. The proper crimping of the fitting needs to be verified by the hose manufacturer with appropriate tools (e.g. reduction of the internal fitting diametre with help of a test pin)

| | | | | | | |
|----------|----------|----------------|--|-----------------|------|---|
| | Datum | Änderungsstand | | Pressmaßtabelle | 8-10 |  |
| Stand | 30.11.05 | | | Crimping Table | | |
| Geprüft: | 30.11.05 | Hegenberg | | | | |

Schlauchtyp 1SN - DIN EN 853 - no skive - 11-...

Pressarmaturen: 1.Serie




| DN | Nenn Durchmesser I.D. HOSE | | Fassung FERRULE PART NUMBER | AD Schlauch O.D. HOSE | AD Draht O.D. WIRE | D _A | L | Schällängen SKIVING LENGTH | | Richtpressmaß CRIMPING DIAMETER | Nippel einfall reduction of the internal fitting diameter |
|----|-------------------------------|------|-----------------------------------|---------------------------|----------------------------------|----------------|------|-------------------------------|--------------------------------|------------------------------------|---|
| | INCH | SIZE | | | | | | Innen IN L _I | Außen OUT L _A | | |
| | | | | d ₂ mm max. | d ₃ mm/min ... max | mm | mm | mm +1 / 0 | mm +1 / 0 | mm | mm min...max |
| 6 | 1/4" | 04 | 101-04 | 14,1 | 10,6 ... 11,6 | 22,0 | 30,0 | ohne | ohne | 17,3 | 0,1 ... 0,4 |
| 8 | 5/16" | 05 | 101-05 | 15,7 | 12,1 ... 13,3 | 24,0 | 30,0 | ohne | ohne | 18,6 | 0,1 ... 0,5 |
| 10 | 3/8" | 06 | 101-06 | 18,1 | 14,5 ... 15,7 | 27,0 | 32,0 | ohne | ohne | 21,7 | 0,3 ... 0,7 |
| 12 | 1/2" | 08 | 101-08 | 21,4 | 17,5 ... 19,1 | 30,0 | 34,0 | ohne | ohne | 24,7 | 0,4 ... 0,8 |
| 16 | 5/8" | 10 | 101-10 | 24,5 | 20,6 ... 22,2 | 34,0 | 37,0 | ohne | ohne | 27,5 | 0,4 ... 0,9 |
| 19 | 3/4" | 12 | 101-12 | 28,5 | 24,6 ... 26,2 | 38,0 | 42,5 | ohne | ohne | 31,0 | 0,4 ... 1,0 |
| 25 | 1" | 16 | 101-16 | 36,6 | 32,5 ... 34,1 | 48,0 | 51,0 | ohne | ohne | 40,4 | 0,5 ... 1,2 |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

Ermittlung der Werte anhand von Schläuchen der Firmen: Semperit

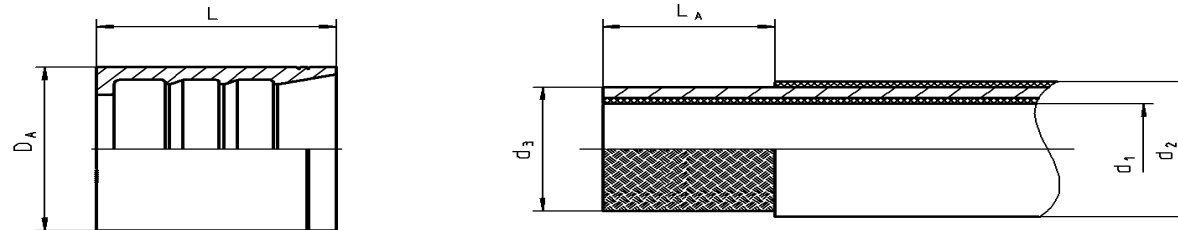
*Die Pressmaße und Schällängen sind Richtwerte. Das ordnungsgemäße Verpressen der Armaturen ist vom Schlauchleitungshersteller mit entsprechenden Mitteln (z.B. Prüfen des Nippel einfalls mittels Dorn) zu prüfen.

* The crimping diameter and the skive length is a guideline. The proper crimping of the fitting needs to be verified by the hose manufacturer with appropriate tools (e.g. reduction of the internal fitting diameter with help of a test pin)

| | | | | | | |
|----------|----------|----------------|--|-----------------|------|---|
| | Datum | Änderungsstand | | Pressmaßtabelle | 8-11 |  |
| Stand | 30.08.11 | (A) | | | | |
| Geprüft: | 30.08.11 | Hegenberg | | | | |

Schlauchtyp 1SN - DIN EN 853 - skive - 11-...


Pressarmaturen: 1.Serie



| DN | Nenndurchmesser I.D. HOSE | | Fassung FERRULE PART NUMBER | AD Schlauch O.D. HOSE | AD Draht O.D. WIRE | DA | L | Schällängen SKIVING LENGTH | | Richtpressmaß CRIMPING DIAMETER | Nippeleinfall reduction of the internal fitting diametre |
|----|------------------------------|------|-----------------------------------|---------------------------|--------------------------------|------|------|-------------------------------|--------------------------------|------------------------------------|--|
| | INCH | SIZE | | | | | | Innen IN L _I | Außen OUT L _A | | |
| | | | | d ₂ mm max. | d ₃ mm min...max | mm | mm | mm +1 / 0 | mm +1 / 0 | mm | mm min...max |
| 5 | 3/16" | 03 | 110-03 | 12,5 | 9,0 ... 10,0 | 17,2 | 27,3 | 0,0 | 20,0 | 14,5 | 0,1...0,3 |
| 6 | 1/4" | 04 | 110-04 | 14,1 | 10,6 ... 11,6 | 18,8 | 30,2 | 0,0 | 23,5 | 15,9 | 0,1...0,4 |
| 8 | 5/16" | 05 | 110-05 | 15,7 | 12,1 ... 13,3 | 20,4 | 30,5 | 0,0 | 24,0 | 18,0 | 0,1...0,5 |
| 10 | 3/8" | 06 | 110-06 | 18,1 | 14,5 ... 15,7 | 23,6 | 32,1 | 0,0 | 25,0 | 20,8 | 0,3...0,7 |
| 12 | 1/2" | 08 | 110-08 | 21,4 | 17,5 ... 19,1 | 28,4 | 34,0 | 0,0 | 25,5 | 25,3 | 0,4...0,8 |
| 16 | 5/8" | 10 | 110-10 | 24,5 | 20,6 ... 22,2 | 31,5 | 36,8 | 0,0 | 29,0 | 27,8 | 0,4...0,9 |
| 19 | 3/4" | 12 | 110-12 | 28,5 | 24,6 ... 26,2 | 36,3 | 42,5 | 0,0 | 31,0 | 32,7 | 0,4...1,0 |
| 25 | 1" | 16 | 110-16 | 36,6 | 32,5 ... 34,1 | 42,6 | 50,5 | 0,0 | 38,0 | 39,3 | 0,5...1,2 |
| 31 | 1 1/4" | 20 | 110-20 | 44,8 | 39,3 ... 41,7 | 50,0 | 59,0 | 0,0 | 45,7 | 45,3 (A) | 0,5...1,4 |
| 38 | 1 1/2" | 24 | 110-24 | 52,1 | 45,6 ... 48,0 | 58,0 | 63,0 | 0,0 | 48,0 | 53,9 | 0,6...1,6 |
| 51 | 2" | 32 | 110-32 | 65,5 | 58,7 ... 61,7 | 72,4 | 78,5 | 0,0 | 64,8 | 68,0 | 0,7...1,7 |

*Die Pressmaße und Schällängen sind Richtwerte. Das ordnungsgemäße Verpressen der Armaturen ist vom Schlauchleitungshersteller mit entsprechenden Mitteln (z.B. Prüfen des Nippeleinfalls mittels Dorn) zu prüfen.

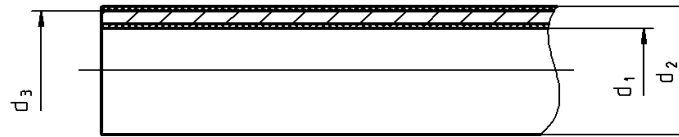
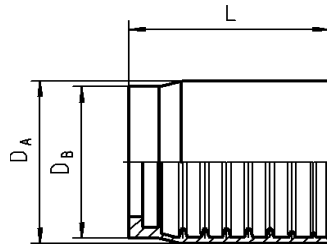
* The crimping diametre and the skive length is a guideline. The proper crimping of the fitting needs to be verified by the hose manufacturer with appropriate tools (e.g. reduction of the internal fitting diameter with help of a test pin)

| | | | | | | |
|----------|----------|----------------|--|-----------------|------|---|
| | Datum | Änderungsstand | | Pressmaßtabelle | 8-12 |  |
| Stand | 20.12.05 | A | | Crimping Table | | |
| Geprüft: | 20.12.05 | Hegenberg | | | | |

Schlauchtyp 2SN - DIN EN 853 - no skive - 21-...

Pressarmaturen:

1.Serie




| Nenndurchmesser I.D. HOSE | | | Fassung FERRULE PART NUMBER | AD Schlauch O.D. HOSE | AD Draht O.D. WIRE | D _A | L | Schällängen SKIVING LENGTH | | Richtpressmaß CRIMPING DIAMETER | Nippelinfeld reduction of the internal fitting diametre |
|------------------------------|-------|------|-----------------------------------|--------------------------|--------------------------------|----------------|------|-------------------------------|--------------------------------|------------------------------------|---|
| DN | INCH | SIZE | | | | | | Innen IN L _I | Außen OUT L _A | | |
| | | | | d ₂ max. | d ₃ mm min...max | mm | mm | mm +1 / 0 | mm +1 / 0 | mm | mm min...max |
| 6 | 1/4" | 04 | 101-04 | 15,7 | 12,1 ... 13,3 | 22,0 | 30,0 | ohne | ohne | 18,4 | 0,1 ... 0,4 |
| 8 | 5/16" | 05 | 101-05 | 17,3 | 13,7 ... 14,9 | 24,0 | 30,0 | ohne | ohne | 19,8 | 0,1 ... 0,5 |
| 10 | 3/8" | 06 | 101-06 | 19,7 | 16,1 ... 17,3 | 27,0 | 32,0 | ohne | ohne | 22,4 | 0,3 ... 0,7 |
| 12 | 1/2" | 08 | 101-08 | 23 | 19,0 ... 20,6 | 30,0 | 34,0 | ohne | ohne | 25,6 | 0,4 ... 0,8 |
| 16 | 5/8" | 10 | 101-10 | 26,2 | 22,2 ... 23,8 | 34,0 | 37,0 | ohne | ohne | 28,5 | 0,4 ... 0,9 |
| 19 | 3/4" | 12 | 101-12 | 30,1 | 26,2 ... 27,8 | 38,0 | 42,5 | ohne | ohne | 32,6 | 0,4 ... 1,0 |
| 25 | 1" | 16 | 101-16 | 38,9 | 34,1 ... 35,7 | 48,0 | 51,0 | ohne | ohne | 42,4 | 0,5 ... 1,2 |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

Ermittlung der Werte anhand von Schläuchen der Firmen: Semperit, Phoenix

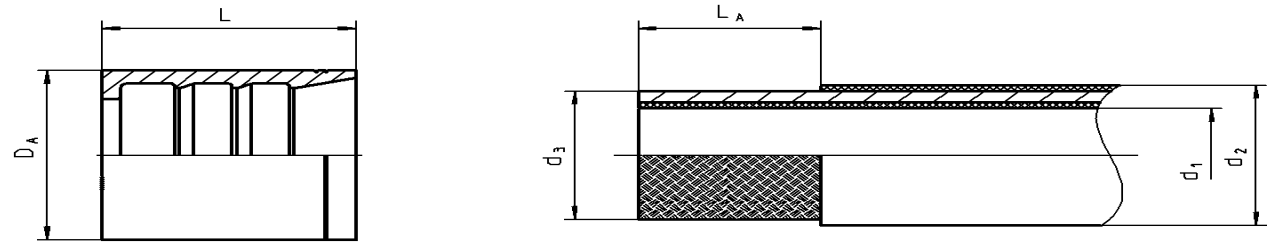
*Die Pressmaße und Schällängen sind Richtwerte. Das ordnungsgemäße Verpressen der Armaturen ist vom Schlauchleitungshersteller mit entsprechenden Mitteln (z.B. Prüfen des Nippelinfelds mittels Dorn) zu prüfen.

* The crimping diametre and the skive length is a guideline. The proper crimping of the fitting needs to be verified by the hose manufacturer with appropriate tools (e.g. reduction of the internal fitting diameter with help of a test pin)

| | | | | |
|----------|--------------------|-----------------------------------|------|---|
| Datum | Änderungsstand | Pressmaßtabelle Crimping Table | 8-13 |  |
| Stand | D (Tab. Erweitert) | | | |
| Geprüft: | Hegenberg | | | |

Schlauchtyp 2SN - DIN EN 853 - skive - 21-...

Pressarmaturen: 1.Serie




| Nenndurchmesser I.D. HOSE | | | Fassung FERRULE PART NUMBER | AD Schlauch O.D. HOSE | AD Draht O.D. WIRE | DA | L | Schällängen SKIVING LENGTH | | Richtpressmaß CRIMPING DIAMETER | Nippelreife reduction of the internal fitting diameter |
|------------------------------|--------|------|-----------------------------------|---------------------------|--------------------------------|-------|------|-------------------------------|--------------------------------|------------------------------------|--|
| DN | INCH | SIZE | | | | | | Innen IN L _I | Außen OUT L _A | | |
| | | | | d ₂ mm max. | d ₃ mm min...max | mm | mm | mm +1 / 0 | mm +1 / 0 | mm | mm min...max |
| 6 | 1/4" | 04 | 120-04 | 15,7 | 12,1 ... 13,3 | 20,4 | 30,2 | 0,0 | 23,5 | 17,6 | 0,1...0,4 |
| 8 | 5/16" | 05 | 120-05 | 17,3 | 13,7 ... 14,9 | 23,6 | 30,2 | 0,0 | 24,0 | 20,6 | 0,1...0,5 |
| 10 | 3/8" | 06 | 120-06 | 19,7 | 16,1 ... 17,3 | 25,0 | 32,1 | 0,0 | 25,0 | 22,3 | 0,3...0,7 |
| 12 | 1/2" | 08 | 120-08 | 23,0 | 19,0 ... 20,6 | 30,0 | 34,0 | 0,0 | 25,5 | 26,0 | 0,4...0,8 |
| 16 | 5/8" | 10 | 120-10 | 26,2 | 22,2 ... 23,8 | 33,0 | 36,8 | 0,0 | 29,0 | 28,4 | 0,4...0,9 |
| 19 | 3/4" | 12 | 120-12 | 30,1 | 26,2 ... 27,8 | 38,0 | 42,5 | 0,0 | 30,0 | 34,0 | 0,4...1,0 |
| 25 | 1" | 16 | 120-16 | 38,9 | 34,1 ... 35,7 | 46,0 | 50,8 | 0,0 | 36,5 | 41,9 | 0,5...1,2 |
| 31 | 1 1/4" | 20 | 120-20 | 49,5 | 43,3 ... 45,7 | 55,0 | 59,0 | 0,0 | 45,7 | 50,5 | 0,5...1,4 |
| 38 | 1 1/2" | 24 | 120-24 | 55,9 | 49,6 ... 52,0 | 62,0 | 62,8 | 0,0 | 48,0 | 57,3 | 0,6...1,6 |
| 51 | 2" | 32 | 120-32 | 68,6 | 62,3 ... 64,7 | 75,0 | 78,5 | 0,0 | 64,8 | 70,5 | 0,7...1,7 |
| 60 | 2 3/8" | 36 | 120-36 (D) | | | 85,0 | 75,0 | 0,0 | 56,6 | 76,6 | 0,7...1,7 |
| 63 | 2 1/2" | 40 | 120-40 (D) | | | | | 0,0 | 70,0 | 79,8 | 0,7...1,7 |
| 76 | 3" | 48 | 120-48 (D) | | | 105,0 | 80,0 | 0,0 | 64,0 | 99,0 | 0,7...1,7 |

Ermittlung der Werte anhand von Schläuchen der Firmen: [2] Alfagomma

*Die Pressmaße und Schällängen sind Richtwerte. Das ordnungsgemäße Verpressen der Armaturen ist vom Schlauchleitungshersteller mit entsprechenden Mitteln (z.B. Prüfen des Nippelreife mittels Dorn) zu prüfen.

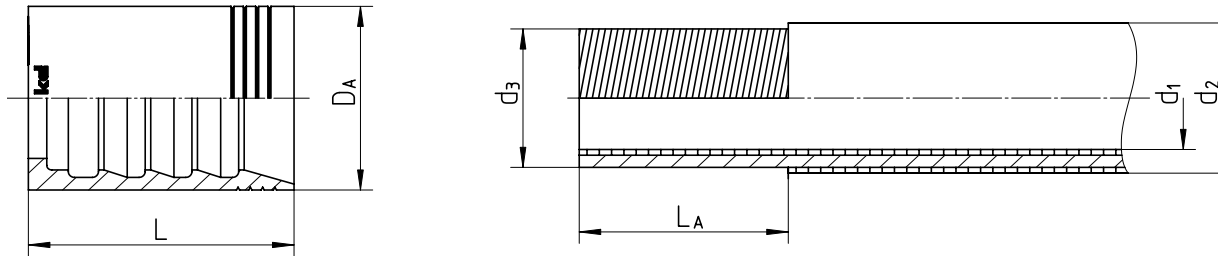
* The crimping diameter and the skive length is a guideline. The proper crimping of the fitting needs to be verified by the hose manufacturer with appropriate tools (e.g. reduction of the internal fitting diameter with help of a test pin)

| | | | | |
|----------|----------------|-----------------------------------|------|---|
| Datum | Änderungsstand | Pressmaßtabelle Crimping Table | 8-14 |  |
| Stand | C | | | |
| Geprüft: | Hegenberg | | | |

Schlauchtyp 4SP - DIN EN 856 - 40-...

Pressarmaturen:


4.Serie



| Nenndurchmesser I.D. HOSE | | | Fassung FERRULE PART NUMBER | AD Schlauch O.D. HOSE | AD Draht O.D. WIRE | D _A | L | Schällängen SKIVING LENGTH | | Richtpressmaß* CRIMPING DIAMETER* | Nippelreife reduction of the internal fitting diameter |
|------------------------------|--------|------|-----------------------------------|--------------------------|-----------------------|----------------|------|-------------------------------|--------------------------------|--------------------------------------|--|
| DN | INCH | SIZE | | | | | | Innen IN L _I | Außen OUT L _A | | |
| 6 | 1/4" | 04 | 440-04 | 17,1...18,7 | 14,1...15,3 | 21,7 | 37,0 | - | 25,5 | 18,9 | 0,1...0,4 |
| 10 | 3/8" | 06 | 440-06 | 20,6...22,2 | 16,9...18,1 | 25,5 | 38,9 | - | 27,0 | 22,7 | 0,1...0,5 |
| 12 | 1/2" | 08 | 440-08 | 23,8...25,4 | 19,4...21,0 | 28,5 | 41,2 | - | 30,5 | 26,0 | 0,3...0,7 |
| 16 | 5/8" | 10 | 440-10 | 27,4...29,0 | 23,0...24,6 | 33,0 | 44,0 | - | 34,0 | 30,4 | 0,4...0,8 |
| 19 | 3/4" | 12 | 440-12 | 31,4...33,0 | 27,4...29,0 | 37,5 | 51,1 | - | 38,0 | 34,7 | 0,4...0,9 |
| 25 | 1" | 16 | 440-16 | 38,5...40,9 | 34,5...36,1 | 46,0 | 61,7 | - | 49,0 | 42,8 | 0,4...1,0 |
| 31 | 1 1/4" | 20 | 440-20 | 49,2...52,4 | 46,0...47,0 | 57,5 | 69,8 | - | 52,0 | 52,4 | 0,5...1,2 |
| 38 | 1 1/2" | 24 | 440-24 | 55,6...58,8 | 51,4...53,4 | 67,0 | 76,7 | - | 56,5 | 61,6 | 0,5...1,2 |
| 51 | 2" | 32 | 440-32 | 68,2...71,4 | 64,3...66,3 | 80,0 | 80,2 | - | 64,0 | 74,5 | 0,5...1,2 |

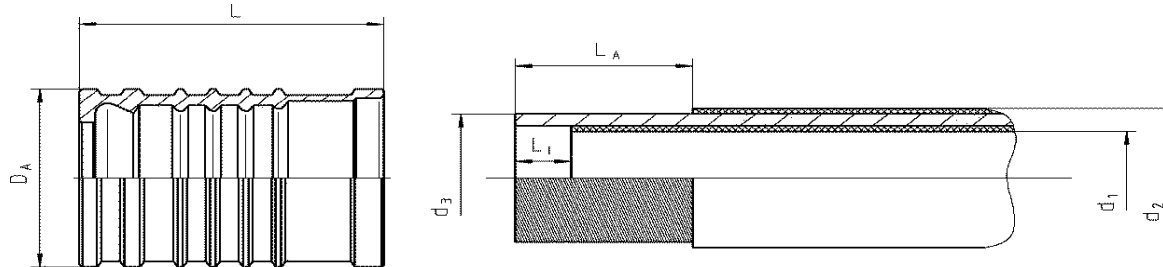
*Die Pressmaße und Schällängen sind Richtwerte. Das ordnungsgemäße Verpressen der Armaturen ist vom Schlauchleitungshersteller mit entsprechenden Mitteln (z.B. Prüfen des Nippelreife mittels Dorn) zu prüfen.

* The crimping diameter and the skive length is a guideline. The proper crimping of the fitting needs to be verified by the hose manufacturer with appropriate tools (e.g. reduction of the internal fitting diameter with help of a test pin)

| | | | | | | |
|----------|---------|----------------|--|-----------------|------|---|
| | Datum | Änderungsstand | | Pressmaßtabelle | 8-15 |  |
| Stand | 26.2.08 | B (war 36,0) | | | | |
| Geprüft: | 26.2.08 | Hegenberg | | | | |

Schlauchtyp 4SH - DIN EN 856 - 44-...


Pressarmaturen: 5.Serie



| DN | Nenndurchmesser I.D. HOSE | | Fassung FERRULE PART NUMBER | AD Schlauch O.D. HOSE d ₂ mm min...max. | AD Draht O.D. WIRE d ₃ mm min...max. | D _A mm | L mm | Schällängen SKIVING LENGTH | | Richtpressmaß* CRIMPING DIAMETER* mm | Nippelinfeld reduction of the internal fitting diametre mm min...max |
|----|------------------------------|------|-----------------------------------|---|--|----------------------|---------|--|---|--|---|
| | INCH | SIZE | | | | | | Innen IN L _I mm +1 / 0 | Außen OUT L _A mm +1 / 0 | | |
| 16 | 5/8" | 10 | | | | | | | | | |
| 19 | 3/4" | 12 | 540-12 | 31,4...33,0 | 27,6...29,2 | 40,0 | 55,0 | 7,0 | 36,0 | 36,5 (B) | 0,7...1,2 |
| 25 | 1" | 16 | 540-16 | 37,5...39,9 | 34,4...36,0 | 48,6 | 68,6 | 12,0 | 43,0 | 43,6 | 1,0...1,6 |
| 31 | 1 1/4" | 20 | 540-20 | 43,9...47,1 | 40,9...42,9 | 57,0 | 75,1 | 14,0 | 47,0 | 49,7 | 1,2...2,0 |
| 38 | 1 1/2" | 24 | 540-24 | 51,9...55,1 | 47,8...49,8 | 62,0 | 75,6 | 14,0 | 47,0 | 56,2 | 1,2...2,2 |
| 51 | 2" | 32 | 540-32 | 66,5...69,7 | 62,2...64,2 | 78,2 | 75,0 | 18,0 | 50,0 | 71,8 | 1,2...2,5 |

*Die Pressmaße und Schällängen sind Richtwerte. Das ordnungsgemäße Verpressen der Armaturen ist vom Schlauchleitungshersteller mit entsprechenden Mitteln (z.B. Prüfen des Nippelinfelds mittels Dorn) zu prüfen.

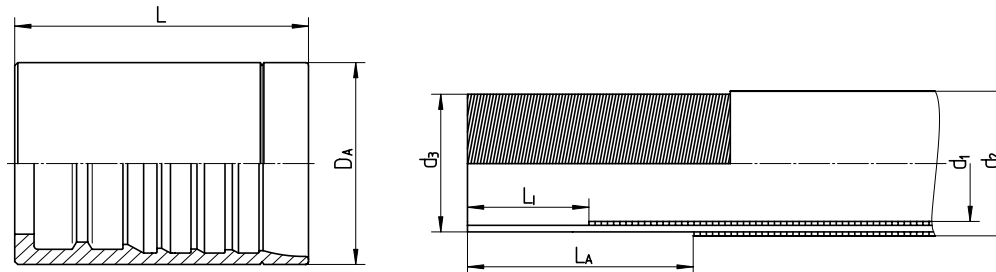
* The crimping diametre and the skive length is a guideline. The proper crimping of the fitting needs to be verified by the hose manufacturer with appropriate tools (e.g. reduction of the internal fitting diametre with help of a test pin)

| | | | | | | |
|----------|----------|----------------|--|-----------------|------|---|
| | Datum | Änderungsstand | | Pressmaßtabelle | 8-16 |  |
| Stand | 02.12.09 | G | | Crimping Table | | |
| Geprüft: | 02.12.09 | Hegenberg | | | | |

Schlauchtyp 4SH - DIN EN 856 - 44-...

Pressarmaturen:

7.Serie




| DN | Nenndurchmesser I.D. HOSE | | Fassung FERRULE PART NUMBER | AD Schlauch O.D. HOSE d ₂ mm min...max. | AD Draht O.D. WIRE d ₃ mm +/- 0,4 | D _A mm | L mm | Schällängen SKIVING LENGTH | | Richtpressmaß* CRIMPING DIAMETER* mm | Nippelreife REDUCTION OF THE INTERNAL FITTING DIAMETRE mm min...max |
|----|------------------------------|------|-----------------------------------|---|---|----------------------|-----------|--|---|--|---|
| | INCH | SIZE | | | | | | Innen IN L ₁ mm +1 / 0 | Außen OUT L _A mm +1 / 0 | | |
| 16 | 5/8" | 10 | 740-10 | 28,5 | 25,5 | 34,0 | 50,0 | 16,0 | 40,0 | 29,9 | 0,4...0,8 F |
| 19 | 3/4" | 12 | 747-12 (alt) | 31,4...33,0 | 28,4 | 40,0 | 56,6 | 20,0 | 40,0 | 35,2 | 0,7...1,2 |
| 19 | 3/4" | 12 | 740-12 (neu) | 31,4...33,0 | 28,4 | 38,0 | 60,0 | 20,0 | 49,0 | 33,9 | 0,7...1,2 |
| 25 | 1" | 16 | 740-16 | 37,5...39,9 | 35,2 | 46,0 | 71,5 (E) | 26,0 | 60,5 | 40,6 | 1,0...1,6 |
| 31 | 1 1/4" | 20 | 740-20 | 43,9...47,1 | 41,9 | 56,9 | 87 (G) | 26,0 | 70,0 | 50,5 | 1,2...2,0 |
| 38 | 1 1/2" | 24 | 740-24 | 51,9...55,1 | 48,8 | 65,8 | 95 (G) | 26,0 | 78,0 | 59,8 | 1,2...2,2 |
| 51 | 2" | 32 | 740-32 | 66,5...69,7 | 63,2 | 80,7 | 100,2 (G) | 26,0 | 80,3 | 74,4 | 1,2...2,5 |

Ermittlung der Werte anhand von Schläuchen der Firmen: Manuli DN16, Alfagamma DN 19..DN 51

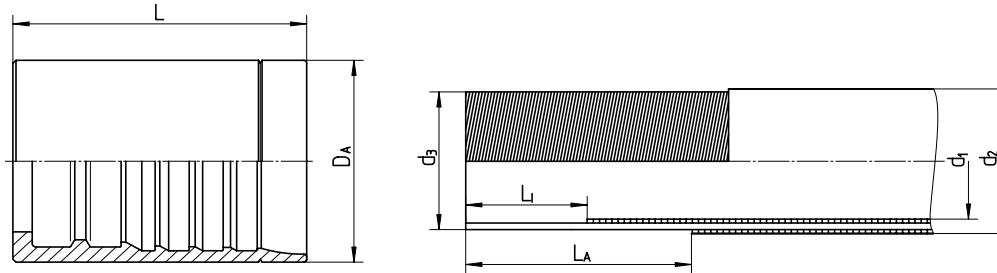
*Die Pressmaße und Schällängen sind Richtwerte. Das ordnungsgemäße Verpressen der Armaturen ist vom Schlauchleitungshersteller mit entsprechenden Mitteln (z.B. Prüfen des Nippelreife mittels Dorn) zu prüfen.

* The crimping diameter and the skive length is a guideline. The proper crimping of the fitting needs to be verified by the hose manufacturer with appropriate tools (e.g. reduction of the internal fitting diameter with help of a test pin)

| | | | | | | |
|----------|----------|----------------------------|--|-----------------|------|---|
| | Datum | Änderungsstand | | Pressmaßtabelle | 8-17 |  |
| Stand | 15.10.07 | A (Nippeleinfall eingengt) | | Crimping Table | | |
| Geprüft: | 15.10.07 | Hegenberg | | | | |

Schlauchtyp SAE 100 R13 - DIN EN 856 - 66-...

Pressarmaturen: 7.Serie




| Nenndurchmesser I.D. HOSE | | | Fassung FERRULE PART NUMBER | | | AD Draht O.D. WIRE d ₃ mm +/- 0,4 | D _A mm | L mm | Schällängen SKIVING LENGTH | | Richtpressmaß* CRIMPING DIAMETER* mm | Nippeleinfall REDUCTION OF THE INTERNAL FITTING DIAMETRE mm min...max |
|------------------------------|------|------|-----------------------------------|--|--|---|----------------------|---------|--|---|--|---|
| DN | INCH | SIZE | | | | | | | Innen IN L ₁ mm +1 / 0 | Außen OUT L _A mm +1 / 0 | | |
| 51 | 2" | 32 | 760-32 | | | 68,5 | 85,0 | 100,2 | 26,0 | 80,3 | 78,5 | 1,2...2,5 |

Ermittlung der Werte anhand von Schläuchen der Firmen: Alfagomma

*Die Pressmaße und Schällängen sind Richtwerte. Das ordnungsgemäße Verpressen der Armaturen ist vom Schlauchleitungshersteller mit entsprechenden Mitteln (z.B. Prüfen des Nippeleinfalls mittels Dorn) zu prüfen.

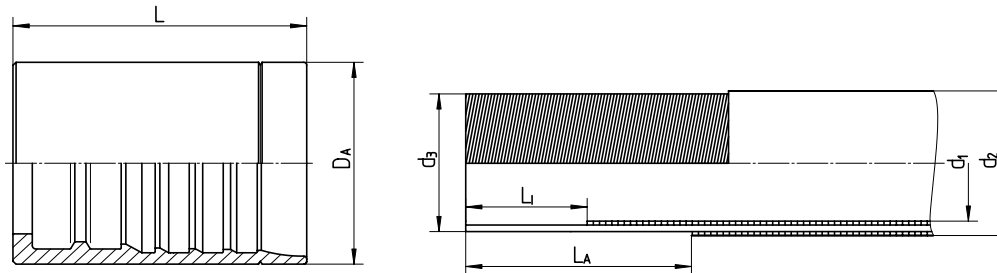
* The crimping diameter and the skive length is a guideline. The proper crimping of the fitting needs to be verified by the hose manufacturer with appropriate tools (e.g. reduction of the internal fitting diameter with help of a test pin)

| | | | | | | |
|----------|---------|----------------|--|-----------------|------|---|
| | Datum | Änderungsstand | | Pressmaßtabelle | 8-18 |  |
| Stand | 4.11.07 | E (DN16 hinzu) | | | | |
| Geprüft: | 4.11.07 | Hegenberg | | | | |

Schlauchtyp SAE 100 R15 - 86-...

Pressarmaturen:

7.Serie




| DN | Nenndurchmesser I.D. HOSE | | Fassung FERRULE PART NUMBER | AD Schlauch O.D. HOSE d ₂ mm max. | AD Draht O.D. WIRE d ₃ mm +/- 0,4 | D _A mm | L mm | Schällängen SKIVING LENGTH | | Richtpressmaß* CRIMPING DIAMETER* mm | Nippelinfeld reduction of the internal fitting diametre mm min...max |
|----|------------------------------|------|-----------------------------------|---|---|--------------------------|-------------|--|---|--|---|
| | INCH | SIZE | | | | | | Innen IN L _i mm +1 / 0 | Außen OUT L _A mm +1 / 0 | | |
| 16 | 5/8" | 10 | 740-10 | 29,0 | 25,6 | 34,0 | 50,0 | 16,0 | 40,0 | 30,0 | 0,4...0,9 |
| 19 | 3/4" | 12 | 740-12 (neu) | 32,2 | 28,4 | 38,0 | 60,0 | 20,0 | 49,0 | 34,0 | 0,7...1,2 |
| 25 | 1" | 16 | 740-16 | 38,7 | 35,8 | 46,0 | 71,5 | 26,0 | 60,5 | 40,6 | 1,0...1,6 |
| 31 | 1 1/4" | 20 | 760-20 | 49,8 | 46,8 | 61,0 | 87,0 | 26,0 | 70,0 | 53,2 | 1,2...2,0 |
| 38 | 1 1/2" | 24 | 760-24 | 57,3 | 54,3 | 70,0 | 95,0 | 26,0 | 78,0 | 63,0 | 1,2...2,2 |

Ermittlung der Werte anhand von Schläuchen der Firmen: Alfagomma

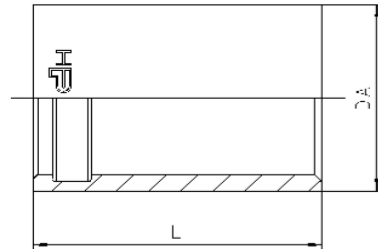
*Die Pressmaße und Schällängen sind Richtwerte. Das ordnungsgemäße Verpressen der Armaturen ist vom Schlauchleitungshersteller mit entsprechenden Mitteln (z.B. Prüfen des Nippelinfelds mittels Dorn) zu prüfen.

* The crimping diametre and the skive length is a guideline. The proper crimping of the fitting needs to be verified by the hose manufacturer with appropriate tools (e.g. reduction of the internal fitting diameter with help of a test pin)

| | | | | | | |
|----------|----------|---------------------------|--|-----------------|------|---|
| | Datum | Änderungsstand | | Pressmaßtabelle | 8-19 |  |
| Stand | 19.06.08 | (B) Artikelnr. korrigiert | | | | |
| Geprüft: | 19.06.08 | Hegenberg | | | | |

Schlauchtyp PTFE R115-


Pressarmaturen: 1.Serie



| DN | Nenn Durchmesser I.D. HOSE | | Fassung FERRULE PART NUMBER | ID Schlauch I.D. Hose d ₁ | AD Schlauch O.D. HOSE d ₂ mm | AD Draht O.D. WIRE d ₃ mm +/- 0,4 | D _A mm | L mm | Schällängen SKIVING LENGTH | | Richtpressmaß CRIMPING DIAMETER mm | Nippeleinfall reduction of the internal fitting diametre mm min...max |
|----|-------------------------------|------|-----------------------------------|--|--|---|----------------------|---------|--|---|--|--|
| | INCH | SIZE | | | | | | | Innen IN L _I mm +1 / 0 | Außen OUT L _A mm +1 / 0 | | |
| 5 | 3/16" | 03 | FR115-03 | 4,8 | 7,9 | - | 12,0 | 30,0 | 0,0 | 0,0 | 10,2 | - |
| 6 | 1/4" | 04 | FR115-04 | 6,4 | 9,8 | - | 15,0 | 30,0 | 0,0 | 0,0 | 13,3 | - |
| 8 | 5/16" | 05 | FR115-05 | 7,9 | 11,3 | - | 17,0 | 30,0 | 0,0 | 0,0 | 15,1 | - |
| 10 | 3/8" | 06 | FR115-06 | 9,5 | 12,8 | - | 20,0 | 31,0 | 0,0 | 0,0 | 16,8 | - |
| 12 | 1/2" | 08 | FR115-08 (B) | 12,7 | 16,5 | - | 24,0 | 34,0 | 0,0 | 0,0 | 21,3 | - |
| 16 | 5/8" | 10 | FR115-10 (B) | 15,9 | 19,8 | - | 27,0 | 38,0 | 0,0 | 0,0 | 24,5 | - |
| 19 | 3/4" | 12 | FR115-12 (B) | 19,1 | 22,5 | - | 30,0 | 42,0 | 0,0 | 0,0 | 27,0 | - |
| 25 | 1" | 16 | FR115-16 (B) | 25,4 | 28,5 | - | 37,0 | 55,0 | 0,0 | 0,0 | 34,5 | - |
| | | | | | | | | | | | | |

*Die Pressmaße und Schällängen sind Richtwerte. Das ordnungsgemäße Verpressen der Armaturen ist vom Schlauchleitungshersteller mit entsprechenden Mitteln (z.B. Prüfen des Nippeleinfalls mittels Dorn) zu prüfen.

* The crimping diametre and the skive length is a guideline. The proper crimping of the fitting needs to be verified by the hose manufacturer with appropriate tools (e.g. reduction of the internal fitting diametre with help of a test pin)

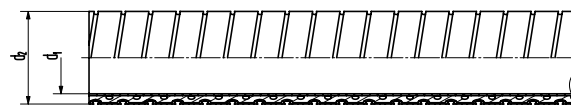
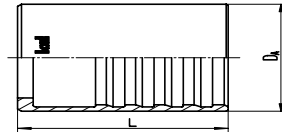
| | | | | | | |
|----------|----------|----------------|--|-----------------|------|---|
| | Datum | Änderungsstand | | Pressmaßtabelle | 8-20 |  |
| Stand | 02.03.10 | (B) | | Crimping Table | | |
| Geprüft: | 02.03.10 | Kortüm | | | | |

Xantener Saugschlauch 17-.. (Verarbeitung mit Pressfassung)

Pressarmaturen:

1.Serie DN19 ... DN63


17.Serie ab DN76



| Nenndurchmesser I.D. HOSE | | | Fassung FERRULE PART NUMBER | ID Schlauch I.D. HOSE | AD Schlauch O.D. HOSE | D _A | L | Schällängen SKIVING LENGTH | | Richtpressmaß* CRIMPING DIAMETER | Nippeleinfall reduction of the internal fitting diametre |
|------------------------------|--------|------|-----------------------------------|--------------------------|--------------------------|----------------|-------|-------------------------------|--------------------------------|-------------------------------------|--|
| DN | INCH | SIZE | | | | | | Innen IN L _I | Außen OUT L _A | | |
| | | | | d ₁ mm | d ₂ mm | mm | mm | mm +1 / 0 | mm +1 / 0 | mm | mm min...max |
| 19 | 3/4" | 12 | 117G-12 | 20,0 ± 0,6 | 29,0 ± 1,5 | 36,0 | 42,5 | - | - | 32,4 | - |
| 25 | 1" | 16 | 117G-16 | 25,0 ± 0,8 | 34,0 ± 1,5 | 42,0 | 46,0 | - | - | 38,7 | - |
| 31 | 1 1/4" | 20 | 117G-20 | 32,0 ± 1,0 | 42,0 ± 1,5 | 50,0 | 54,0 | - | - | 46,5 | - |
| 38 | 1 1/2" | 24 | 117G-24 | 38,0 ± 1,0 | 48,0 ± 2,0 | 56,5 | 57,0 | - | - | 51,5 | - |
| 51 | 2" | 32 | 117G-32 | 51,0 ± 1,2 | 62,0 ± 2,0 | 70,0 | 74,0 | - | - | 65,0 | - |
| 60 | 2 3/8" | 36 | 117G-36 | 60,0 ± 1,2 | 73,0 ± 2,0 | 82,0 | 75,0 | - | - | 76,0 | - |
| 76 | 3" | 48 | 117G-48 | 76,0 ± 1,4 | 90,0 ± 2,5 | 100,5 (B) | 93,0 | - | - | 92,5 | - |
| 90 | 3 1/2" | 56 | 117G-56 | 90,0 ± 1,4 | 104,0 ± 2,5 | 114,3 | 96,0 | - | - | 106,5 | - |
| 101 | 4" | 64 | 117G-64 | 102,0 ± 1,5 | 116,0 ± 2,5 | 133,0 | 96,0 | - | - | 121,0 | - |
| 127 | 5" | 80 | 117G-80 | 127,0 ± 1,6(A) | 145,0 ± 3,0 | 158,0 | 99,0 | - | - | 147,8 | - |
| 152 | 6" | 96 | 117G-96 | 152,0 ± 2,0 | 167,0 ± 3,0 | 187,0 | 131,0 | - | - | nicht festgelegt | - |

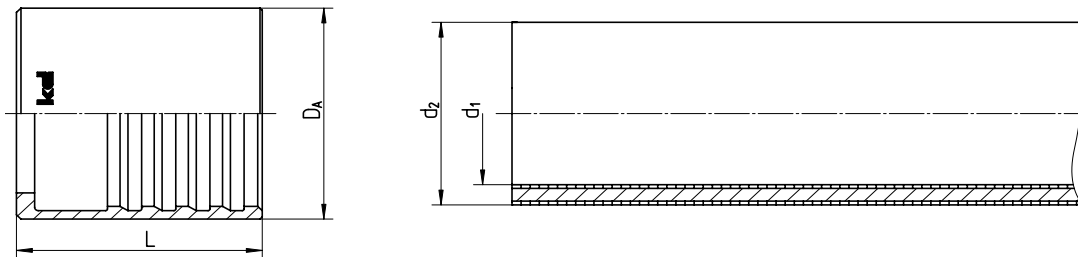
*Die Pressmaße und Schällängen sind Richtwerte. Für das ordnungsgemäße Verpressen ist vom Schlauchleitungshersteller das Verhalten des Schlauchmaterials zu beobachten: Der Schlauch muß sich erkennbar an beiden Seiten der Fassung bewegen.

The crimping diameters are guidelines. For the proper crimping, the hose line manufacturer needs to watch the hose characteristics during the crimping process: The hose must move visibly on both sides of the ferrule.

| | | | | | | |
|----------|----------|----------------|--|-----------------|------|---|
| | Datum | Änderungsstand | | Pressmaßtabelle | 8-21 |  |
| Stand | 12.01.11 | C | | Crimping Table | | |
| Geprüft: | 12.01.11 | Hegenberg | | | | |

Saugschlauch 17G-.. (Verarbeitung mit Pressfassung)


| | | |
|-----------------|-----------------------|------------------|
| Pressarmaturen: | 1.Serie DN19 ... DN63 | 17.Serie ab DN76 |
|-----------------|-----------------------|------------------|



| DN | Nenndurchmesser I.D. HOSE | | Fassung FERRULE PART NUMBER | ID Schlauch I.D. HOSE d ₂ mm | AD Schlauch O.D. HOSE d ₂ mm | AD Draht O.D. WIRE d ₃ mm +/- 0,4 | D _A mm | L mm | Schällängen SKIVING LENGTH | | Richtpressmaß* CRIMPING DIAMETER mm | Nippeleinfall reduction of the internal fitting diametre mm min...max |
|-----|------------------------------|------|-----------------------------------|--|--|---|----------------------|---------|--|---|---|--|
| | INCH | SIZE | | | | | | | Innen IN L _I mm +1 / 0 | Außen OUT L _A mm +1 / 0 | | |
| 19 | 3/4" | 12 | 117G-12 | 20 ± 0,25 | 28 ± 1,25 | - | 36,0 | 42,5 | - | - | 31,9 | - |
| 25 | 1" | 16 | 117G-16 | 25 ± 1,25 | 33 ± 1,50 | - | 42,0 | 46,0 | - | - | 38,0 | - |
| 31 | 1 1/4" | 20 | 117G-20 | 32 ± 1,50 | 42 ± 1,50 | - | 50,0 | 54,0 | - | - | 47,0 | - |
| 38 | 1 1/2" | 24 | 117G-24 | 38 ± 1,50 | 48 ± 1,50 | - | 56,5 | 57,0 | - | - | 52,9 | - |
| 51 | 2" | 32 | 117G-32 | 52 ± 1,50 | 63 ± 1,50 | - | 70,0 | 74,0 | - | - | 65,5 | - |
| 60 | 2 3/8" | 36 | 117G-36 | 60 ± 1,50 | 72 ± 2,00 | - | 82,0 | 75,0 | - | - | 76,5 | - |
| 63 | 2 1/2" | 40 | 117G-40 | 63 ± 1,50 | 75 ± 2,00 | - | 84,0 | 81,0 | - | - | 78,0 | - |
| 76 | 3" | 48 | 117G-48 | 76 ± 2,00 | 88 ± 2,00 | - | 100,5 (B) | 93,0 | - | - | 92,8 | - |
| 90 | 3 1/2" | 56 | 117G-56 | 90 ± 2,00 | 105 ± 2,00 | - | 114,3 | 96,0 | - | - | 106,5 | - |
| 100 | 4" | 64 | 117G-64 | 102 ± 2,00 | 117 ± 2,00 | - | 133,0 | 96,0 | - | - | 122,0 | - |
| 127 | 5" | 80 | 117G-80 | 127 ± 2,00 | 145 ± 2,00 | - | 158,0 | 99,0 | - | - | 147,8 | - |
| 152 | 6" | 96 | 117G-96 | 152 ± 2,00 | 170 ± 2,00 | - | 187,0 | 131,0 | - | - | 176,2 | - |

*Die Pressmaße und Schällängen sind Richtwerte. Für das ordnungsgemäße Verpressen ist vom Schlauchleitungshersteller das Verhalten des Schlauchmaterials zu beobachten: Der Schlauch muß sich beim Verpressen erkennbar aus der Fassung 4..6 mm bewegen.

The crimping diameters are guidelines. For the proper crimping, the hose line manufacturer needs to watch the hose characteristics during the crimping process: The hose must move visibly 4..6 mm of the ferrule.

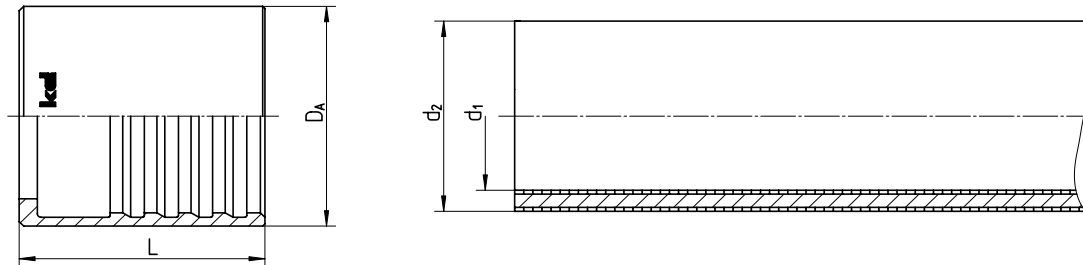
| | | | | | | |
|----------|----------|----------------|--|-----------------|------|---|
| | Datum | Änderungsstand | | Pressmaßtabelle | 8-22 |  |
| Stand | 15.11.10 | B | | Crimping Table | | |
| Geprüft: | 15.11.10 | Hegenberg | | | | |

Saugschlauch SAE 100R4 14A-.. (Verarbeitung mit Pressfassung)

Pressarmaturen:

1.Serie DN19 ... DN60


17.Serie ab DN76



| DN | Nenn Durchmesser I.D. HOSE | | Fassung FERRULE PART NUMBER | AD Schlauch O.D. HOSE d ₂ mm | AD Draht O.D. WIRE d ₃ mm | D _A mm | L mm | Schällängen SKIVING LENGTH | | Richtpressmaß CRIMPING DIAMETER mm | Nippelreduzierung reduction of the internal fitting diameter mm min...max |
|-----|-------------------------------|------|-----------------------------------|--|---|--------------------------|-------------|--|---|--|--|
| | INCH | SIZE | | | | | | Innen IN L _I mm +1 / 0 | Außen OUT L _A mm +1 / 0 | | |
| 19 | 3/4" | 12 | 117G-12 | 29 | - | 36,0 | 42,5 | - | - | 33,3 | - |
| 25 | 1" | 16 | 117G-16 | 35 | - | 42,0 | 46,0 | - | - | 39,6 | - |
| 31 | 1 1/4" | 20 | 117G-20 | 42 | - | 50,0 | 54,0 | - | - | 46,8 | - |
| 38 | 1 1/2" | 24 | 117G-24 | 48 | - | 56,5 | 57,0 | - | - | 53,3 | - |
| 51 | 2" | 32 | 117G-32 | 61 | - | 70,0 | 74,0 | - | - | 65,8 | - |
| 60 | 2 3/8" | 36 | 117G-36 | 72 | - | 82,0 | 75,0 | - | - | 76,5 | - |
| 63 | 2 1/2" | 40 | 117G-40 | 75 | - | 84,0 | 81,0 | - | - | 78,0 (B) | - |
| 76 | 3" | 48 | 117G-48 | 88 | - | 100,5 (A) | 93,0 | - | - | 93,3 | - |
| 90 | 3 1/2" | 56 | 117G-56 | 104 | - | 114,3 | 96,0 | - | - | 106,5 | - |
| 100 | 4" | 64 | 117G-64 | 116 | - | 133,0 | 96,0 | - | - | 121,0 | - |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

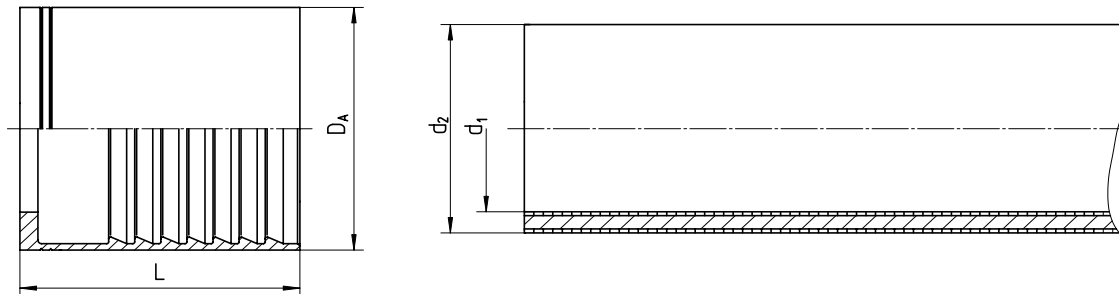
*Die Pressmaße und Schällängen sind Richtwerte. Für das ordnungsgemäße Verpressen ist vom Schlauchleitungshersteller das Verhalten des Schlauchmaterials zu beobachten: Der Schlauch muß sich erkennbar an beiden Seiten der Fassung bewegen.

The crimping diameters are guidelines. For the proper crimping, the hose line manufacturer needs to watch the hose characteristics during the crimping process: The hose must move visibly on both sides of the ferrule.

| | | | | | | |
|----------|----------|----------------|--|-----------------|------|---|
| | Datum | Änderungsstand | | Pressmaßtabelle | 8-23 |  |
| Stand | 03.08.09 | | | | | |
| Geprüft: | 03.08.09 | Hegenberg | | | | |


Niederdruckschlauch KARA/25 15-.. (Verarbeitung mit Pressfassung)

Pressarmaturen: 15.Serie



| Nenndurchmesser I.D. HOSE | | | Fassung FERRULE PART NUMBER | AD Schlauch O.D. HOSE | AD Draht O.D. WIRE | D _A | L | Schällängen SKIVING LENGTH | | Richtpressmaß CRIMPING DIAMETER | Nippelinfeld reduction of the internal fitting diametre |
|------------------------------|--------|------|-----------------------------------|------------------------------|------------------------------|----------------|----|-------------------------------|--------------------------------|------------------------------------|---|
| DN | INCH | SIZE | | | | | | Innen IN L _I | Außen OUT L _A | | |
| | | | | d ₂ mm +/- 0,4 | d ₃ mm +/- 0,4 | mm | mm | mm +1 / 0 | mm +1 / 0 | mm | mm min...max |
| 25 | 1" | 16 | 115-16 | | | | | | | 43,5 | |
| 32 | 1 1/4" | 20 | 115-20 | | | | | | | 50,0 | |
| 40 | 1 1/2" | 24 | 115-24 | | | | | | | 61,5 | |
| 50 | 2" | 32 | 115-32 | | | | | | | 74,0 | |
| 63 | 1 3/8" | 40 | 115-40 | | | | | | | 90,0 | |
| 76 | 3" | 48 | 115-48 | | | | | | | 100,0 | |
| 100 | 4" | 64 | 115-64 | | | | | | | 131,1 | |

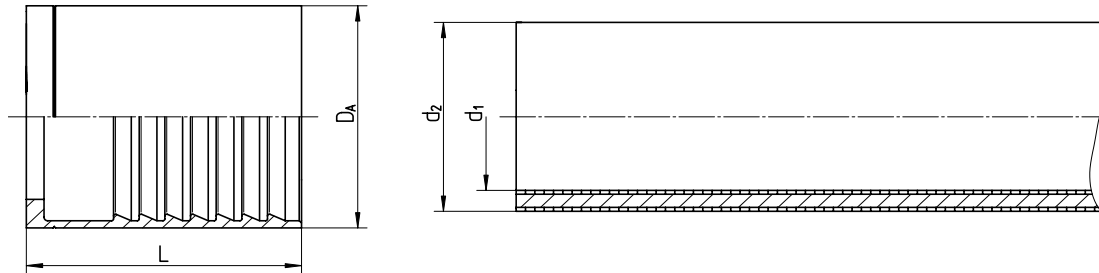
*Die Pressmaße und Schällängen sind Richtwerte. Für das ordnungsgemäße Verpressen ist vom Schlauchleitungshersteller das Verhalten des Schlauchmaterials zu beobachten: Der Schlauch muß sich erkennbar an beiden Seiten der Fassung bewegen.
 The crimping diameters are guidelines. For the proper crimping, the hose line manufacturer needs to watch the hose characteristics during the crimping process: The hose must move visibly on both sides of the ferrule.

| | | | | | | |
|----------|----------|----------------------|--|-----------------|------|---|
| | Datum | Änderungsstand | | Pressmaßtabelle | 8-30 |  |
| Stand | 17.12.07 | AD Schlauch nach DIN | | | | |
| Geprüft: | 17.12.07 | Hegenberg | | | | |

Schlauchtyp 1SN - DIN EN 853 - no skive - 11-...

Pressarmaturen:

1.Serie




| DN | Nenndurchmesser I.D. HOSE | | Fassung FERRULE PART NUMBER | AD Schlauch O.D. HOSE d ₂ mm max | AD Draht O.D. WIRE d ₃ mm | D _A mm | L mm | Schällängen SKIVING LENGTH | | Richtpressmaß CRIMPING DIAMETER mm | Nippeleinfall reduction of the internal fitting diameter mm min...max |
|----|------------------------------|------|-----------------------------------|--|---|--------------------------|-------------|--|---|--|--|
| | INCH | SIZE | | | | | | Innen IN L _I mm +1 / 0 | Außen OUT L _A mm +1 / 0 | | |
| 6 | 1/4" | 04 | 111-04 | 14,1 | - | 19,5 | 30,2 | 0,0 | 0,0 | 16,7 | 0,1...0,4 |
| 8 | 5/16" | 05 | 111-05 | 15,7 | - | 20,6 | 30,2 | 0,0 | 0,0 | 18,0 | 0,1...0,5 |
| 10 | 3/8" | 06 | 111-06 | 18,1 | - | 23,2 | 32,0 | 0,0 | 0,0 | 20,0 | 0,3...0,7 |
| 12 | 1/2" | 08 | 111/121-08 | 21,4 | - | 28,2 | 34,0 | 0,0 | 0,0 | 23,5 | 0,4...0,8 |
| 16 | 5/8" | 10 | 111/121-10 | 24,5 | - | 31,5 | 36,8 | 0,0 | 0,0 | 26,7 | 0,4...0,9 |
| 19 | 3/4" | 12 | 111/121-12 | 28,5 | - | 35,3 | 42,5 | 0,0 | 0,0 | 30,4 | 0,4...1,0 |
| 25 | 1" | 16 | 111-16 | 36,6 | - | 42,7 | 50,5 | 0,0 | 0,0 | 38,6 | 0,5...1,2 |
| 31 | 1 1/4" | 20 | 111-20 | 44,8 | - | 50,9 | 59,0 | 0,0 | 0,0 | 46,9 | 0,5...1,2 |

Ermittlung der Werte anhand von Schläuchen der Firmen: Phoenix, Semperit.

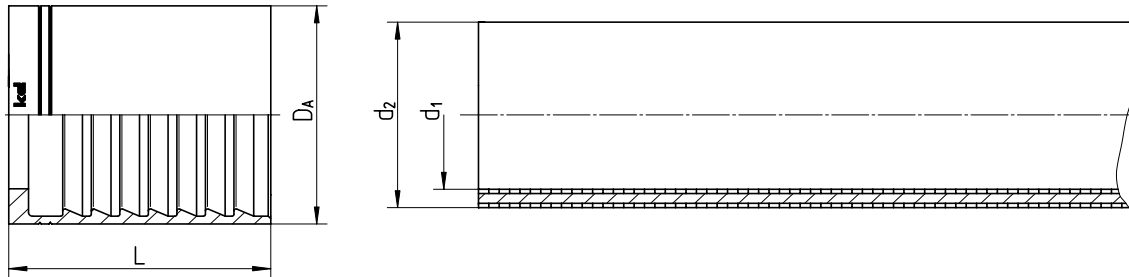
*Die Pressmaße und Schällängen sind Richtwerte. Das ordnungsgemäße Verpressen der Armaturen ist vom Schlauchleitungshersteller mit entsprechenden Mitteln (z.B. Prüfen des Nippeleinfalls mittels Dorn) zu prüfen.

* The crimping diameter and the skive length is a guideline. The proper crimping of the fitting needs to be verified by the hose manufacturer with appropriate tools (e.g. reduction of the internal fitting diameter with help of a test pin)

| | | | | | | |
|----------|----------|----------------|--|-----------------|------|---|
| | Datum | Änderungsstand | | Pressmaßtabelle | 8-31 |  |
| Stand | 12.12.05 | A (111/121-) | | Crimping Table | | |
| Geprüft: | 30.11.05 | Hegenberg | | | | |

Schlauchtyp 2SN - DIN EN 853 - no skive - 21-...

Pressarmaturen: 1.Serie




| Nenndurchmesser I.D. HOSE | | | Fassung FERRULE PART NUMBER | AD Schlauch O.D. HOSE | AD Draht O.D. WIRE | D _A | L | Schällängen SKIVING LENGTH | | Richtpressmaß CRIMPING DIAMETER | Nippeleinfall reduction of the internal fitting diametre |
|------------------------------|--------|------|-----------------------------------|--------------------------|-----------------------|----------------|------|--|---|------------------------------------|--|
| DN | INCH | SIZE | | d ₂ mm max | d ₃ mm | mm | mm | Innen IN L _I mm +1 / 0 | Außen OUT L _A mm +1 / 0 | mm | mm min...max |
| 5 | 3/16" | 03 | 121-03 | 14,1 | - | 18,6 | 27,3 | 0,0 | 0,0 | 15,7 | 0,1...0,3 |
| 6 | 1/4" | 04 | 121-04 | 15,7 | - | 20,6 | 30,2 | 0,0 | 0,0 | 17,6 | 0,1...0,4 |
| 8 | 5/16" | 05 | 121-05 | 17,3 | - | 22,3 | 30,2 | 0,0 | 0,0 | 19,5 | 0,1...0,5 |
| 10 | 3/8" | 06 | 121-06 | 19,7 | - | 25,0 | 32,0 | 0,0 | 0,0 | 21,8 | 0,3...0,7 |
| 12 | 1/2" | 08 | 111/121-08 | 23,0 | - | 28,2 | 34,0 | 0,0 | 0,0 | 24,8 | 0,4...0,8 |
| 16 | 5/8" | 10 | 111/121-10 | 26,2 | - | 31,5 | 36,8 | 0,0 | 0,0 | 27,8 | 0,4...0,9 |
| 19 | 3/4" | 12 | 111/121-12 | 30,1 | - | 35,3 | 42,5 | 0,0 | 0,0 | 32,0 | 0,4...1,0 |
| 25 | 1" | 16 | 121-16 | 38,9 | - | 45,0 | 50,5 | 0,0 | 0,0 | 40,7 | 0,5...1,2 |
| 31 | 1 1/4" | 20 | 121-20 | 49,5 | - | 55,0 | 59,0 | 0,0 | 0,0 | 49,0 | 0,5...1,2 |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

Ermittlung der Werte anhand von Schläuchen der Firmen: Phoenix, Semperit

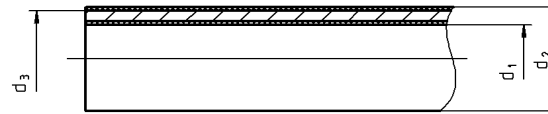
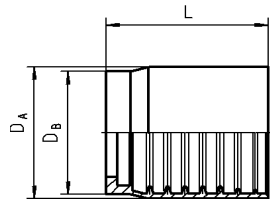
*Die Pressmaße und Schällängen sind Richtwerte. Das ordnungsgemäße Verpressen der Armaturen ist vom Schlauchleitungshersteller mit entsprechenden Mitteln (z.B. Prüfen des Nippeleinfalls mittels Dorn) zu prüfen.

* The crimping diametre and the skive length is a guideline. The proper crimping of the fitting needs to be verified by the hose manufacturer with appropriate tools (e.g. reduction of the internal fitting diameter with help of a test pin)

| | | | | | | |
|----------|----------|----------------|--|-----------------|------|---|
| | Datum | Änderungsstand | | Pressmaßtabelle | 8-33 |  |
| Stand | 24.08.11 | B (DN25 hinzu) | | | | |
| Geprüft: | 24.08.11 | Hegenberg | | Crimping Table | | |

Schlauchtyp 1SN-K

Pressarmaturen: 1.Serie




| DN | Nenn Durchmesser I.D. HOSE | | Fassung FERRULE PART NUMBER | ID Schlauch I.D. Hose d ₁ | AD Schlauch O.D. HOSE d ₂ max. | AD Draht O.D. WIRE d ₃ mm min...max | D _A mm | L mm | Schällängen SKIVING LENGTH | | Richtpressmaß CRIMPING DIAMETER mm | Nippeleinfall reduction of the internal fitting diametre mm min...max |
|----|-------------------------------|------|-----------------------------------|--|--|---|----------------------|---------|--|---|--|--|
| | INCH | SIZE | | | | | | | Innen IN L _I mm +1 / 0 | Außen OUT L _A mm +1 / 0 | | |
| 6 | 1/4" | 04 | 101-04-1SC | 6,4 | 11,8 | 10,0 | 20,0 | 30,0 | ohne | ohne | 15,8 | 0,3 ... 0,6 |
| 8 | 5/16" | 05 | 101-05-1SC | 7,9 | 13,6 | 11,6 | 22,0 | 30,0 | ohne | ohne | 19,1 | 0,1 ... 0,5 |
| 10 | 3/8" | 06 | 101-06-1SC | 9,5 | 16,5 | 13,7 | 24,0 | 32,0 | ohne | ohne | 20,9 | 0,3 ... 0,7 |
| 12 | 1/2" | 08 | 101-08 | 12,7 | 19,0 | 16,9 | 30,0 | 34,0 | ohne | ohne | 23,7 | 0,4 ... 0,8 |
| 16 | 5/8" | 10 | 101-10 | 15,9 | 22,3 | 20,5 | 34,0 | 37,0 | ohne | ohne | 27,7 | 0,4 ... 0,9 |
| 19 | 3/4" | 12 | 101-12 | 19,0 | 26,2 | 24,0 | 38,0 | 42,5 | ohne | ohne | 31,7 | 0,4 ... 1,0 |
| 25 | 1" | 16 | 101-16 | 25,4 | 34,0 | 31,3 | 48,0 | 51,0 | ohne | ohne | 38,6 | 0,5 ... 1,2 |
| 31 | 1 1/4" | 20 | | 31,8 | 44,0 | 40,5 | | | | | | |

Ermittlung der Werte anhand von Schläuchen der Firmen: Semperit

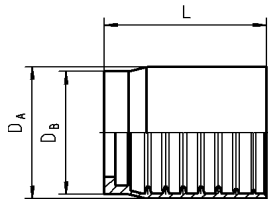
*Die Pressmaße und Schällängen sind Richtwerte. Das ordnungsgemäße Verpressen der Armaturen ist vom Schlauchleitungshersteller mit entsprechenden Mitteln (z.B. Prüfen des Nippeleinfalls mittels Dorn) zu prüfen.

* The crimping diametre and the skive length is a guideline. The proper crimping of the fitting needs to be verified by the hose manufacturer with appropriate tools (e.g. reduction of the internal fitting diametre with help of a test pin)

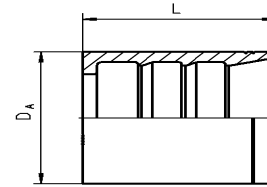
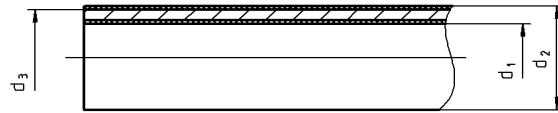
| | | | | | | |
|----------|----------|-------------------|--|-----------------|------|---|
| | Datum | Änderungsstand | | Pressmaßtabelle | 8-34 |  |
| Stand | 12.03.09 | (D) Fassung hinzu | | | | |
| Geprüft: | 12.03.09 | Hegenberg | | | | |

Schlauchtyp 2SN-K -28-...

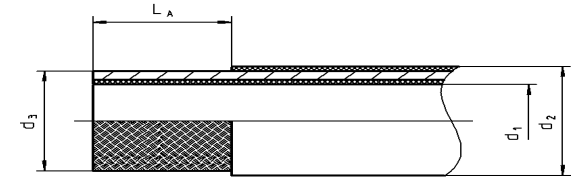
Pressarmaturen: 1.Serie



101-



110-




| Nenndurchmesser I.D. HOSE | | | Fassung FERRULE PART NUMBER | ID Schlauch I.D. Hose | AD Schlauch O.D. HOSE | AD Draht O.D. WIRE | D _A | L | Schällängen SKIVING LENGTH | | Richtpressmaß CRIMPING DIAMETER | Nippelinfeld reduction of the internal fitting diametre |
|------------------------------|-------|------|-----------------------------------|--------------------------|--------------------------|--------------------------------|----------------|------|-------------------------------|--------------------------------|------------------------------------|---|
| DN | INCH | SIZE | | | | | | | Innen IN L _I | Außen OUT L _A | | |
| | | | | d ₁ mm | d ₂ max. | d ₃ mm min...max | mm | mm | mm +1 / 0 | mm +1 / 0 | mm | mm min...max |
| 6 | 1/4" | 04 | 101-04 | 6,4 | 13,4 | 11,1 | 22,0 | 30,0 | ohne | ohne | 17,3 | 0,3 ... 0,6 |
| 8 | 5/16" | 05 | 101-05 | 7,9 | 15 | 12,7 | 24,0 | 30,0 | ohne | ohne | 19,0 | 0,1 ... 0,5 |
| 10 | 3/8" | 06 | 101-06 | 9,5 | 17,4 | 15,1 | 27,0 | 32,0 | ohne | ohne | 21,9 | 0,3 ... 0,7 |
| 12 | 1/2" | 08 | 110-08 | 12,7 | 20,6 | 18,3 | 28,4 | 34,0 | ohne | 25,0 | 25,0 | 0,4 ... 0,8 |
| 12 | 1/2" | 08 | 101-08 (D) | 12,7 | 20,6 | 18,3 | 27,0 | 32,0 | ohne | ohne | 24,7 | 0,4 ... 0,8 |
| 16 | 5/8" | 10 | 101-10 | 15,9 | 23,7 | 21,4 | 34,0 | 37,0 | ohne | ohne | 28,9 | 0,4 ... 0,9 |
| 19 | 3/4" | 12 | 110-12 | 19,0 | 27,7 | 25,4 | 36,3 | 42,5 | ohne | 32,0 | 33,2 | 0,4 ... 1,0 |
| 19 | 3/4" | 12 | 101-12 (D) | 19,0 | 27,7 | 25,4 | 38,0 | 42,5 | ohne | ohne | 32,7 | 0,4 ... 1,0 |
| 25 | 1" | 16 | 101-16 (D) | 25,4 | 35,6 | 33,3 | 48,0 | 51,0 | ohne | ohne | 40,0 | 0,5 ... 1,2 |

Ermittlung der Werte anhand von Schläuchen der Firmen: Semperit

*Die Pressmaße und Schällängen sind Richtwerte. Das ordnungsgemäße Verpressen der Armaturen ist vom Schlauchleitungshersteller mit entsprechenden Mitteln (z.B. Prüfen des Nippelinfelds mittels Dorn) zu prüfen.

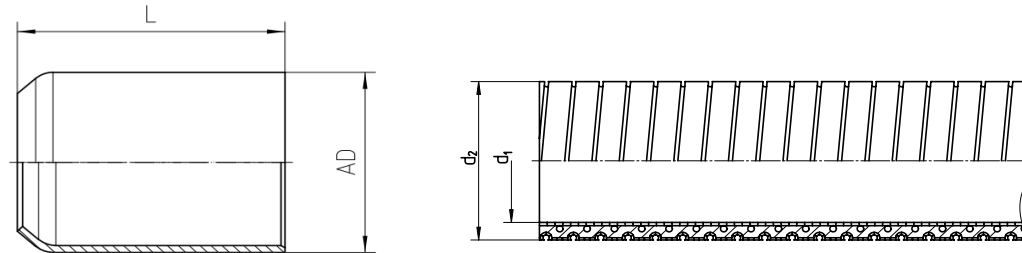
* The crimping diametre and the skive length is a guideline. The proper crimping of the fitting needs to be verified by the hose manufacturer with appropriate tools (e.g. reduction of the internal fitting diametre with help of a test pin)

| | | | | | | |
|----------|----------|----------------|--|-----------------|------|---|
| | Datum | Änderungsstand | | Pressmaßtabelle | 8-36 |  |
| Stand | 04.04.07 | | | Crimping Table | | |
| Geprüft: | 04.04.07 | Jens Kortüm | | | | |

Xantener Saugschlauch 17-.. (Verarbeitung mit Pressfassung)

Pressarmaturen:

17.Serie




| DN | Nenn Durchmesser I.D. HOSE | | Fassung FERRULE PART NUMBER | ID Schlauch I.D. HOSE | AD Schlauch O.D. HOSE | D _A | L | Schällängen SKIVING LENGTH | | RichtRichtpressmaß* CRIMPING DIAMETER | Nippelreduzierung reduction of the internal fitting diameter |
|-----|-------------------------------|------|-----------------------------------|--------------------------|--------------------------|----------------|-------|-------------------------------|--------------------------------|--|--|
| | INCH | SIZE | | | | | | Innen IN L _I | Außen OUT L _A | | |
| | | | | d ₁ mm | d ₂ mm | mm | mm | mm +1 / 0 | mm +1 / 0 | mm | mm min...max |
| 20 | 3/4" | 12 | 117-12 | 20,0 ± 0,6 | 29,0 ± 1,5 | 38,0 | 87,0 | - | - | 32,5 | - |
| 25 | 1" | 16 | 117-16 | 25,0 ± 0,8 | 34,0 ± 1,5 | 42,4 | 87,0 | - | - | 38,0 | - |
| 32 | 1 1/4" | 20 | 117-20 | 32,0 ± 1,0 | 42,0 ± 1,5 | 51,0 | 87,0 | - | - | 46,0 | - |
| 38 | 1 1/2" | 24 | 117-24 | 38,0 ± 1,0 | 48,0 ± 2,0 | 57,0 | 87,0 | - | - | 51,0 | - |
| 51 | 2" | 32 | 117-32 | 51,0 ± 1,2 | 62,0 ± 2,0 | 76,1 | 104,0 | - | - | 67,0 | - |
| 60 | 2 3/8" | 36 | 117-36 | 60,0 ± 1,2 | 73,0 ± 2,0 | 82,5 | 104,0 | - | - | 76,5 | - |
| 76 | 3" | 48 | 117-48 | 76,0 ± 1,4 | 90,0 ± 2,5 | 101,6 | 106,0 | - | - | 96,5 | - |
| 90 | 3 1/2" | 56 | 117-56 | 90,0 ± 1,4 | 104,0 ± 2,5 | 114,3 | 106,0 | - | - | 109,0 | - |
| 102 | 4" | 64 | 117-64 | 102,0 ± 1,5 | 116,0 ± 2,5 | 133,0 | 107,0 | - | - | 122,0 | - |
| 127 | 5" | 80 | 117-80 | 127,0 ± 1,6 | 145,0 ± 3,0 | 159,0 | 150,0 | - | - | 151,0 | - |
| 152 | 6" | 96 | 117-96 | 152,0 ± 2,0 | 167,0 ± 3,0 | 203,0 | 125,0 | - | - | 180,0 | - |

Das Verpressen erfolgt im Rahmen der vorgegebenen Richtwerte, wobei das Verhalten des Schlauchmaterials zu beobachten ist: Der Schlauch muß sich erkennbar an beiden Seiten der Fassung bewegen. Die Verpressung ist dadurch zu prüfen, dass der Konfektionär versucht die Armatur mit der Hand in der Verpressung zu drehen.

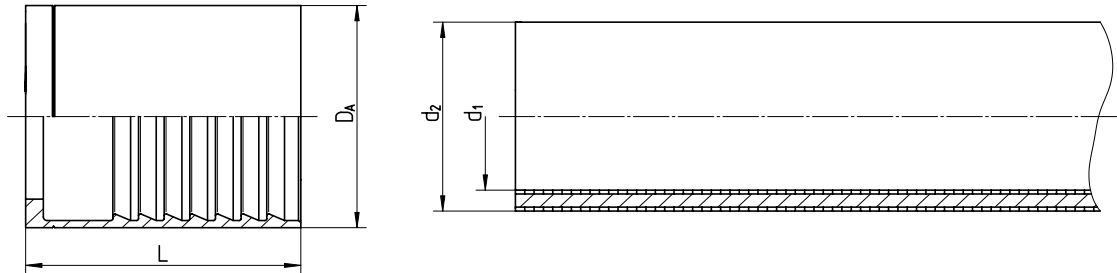
Nur unter größter Kraftanstrengung darf das gelingen. Lässt die Armatur sich drehen, ist vorsichtig nachzupressen.

The crimping is within the framework of existing indications. It is necessary to inspecting the flow rating of the hose. The hose has to move visibly on both ends of the ferrule. Check the crimping with the attempt to turn the fitting with your hand. It should be possible only with a great exertion! If the fitting is turnable, keep on pressing carefully.

| | | | | | | |
|----------|----------|----------------|--|-----------------------------------|------|---|
| | Datum | Änderungsstand | | Pressmaßtabelle Crimping Table | 8-37 |  |
| Stand | 17.01.08 | | | | | |
| Geprüft: | 17.01.08 | Hegenberg | | | | |


Schlauchtyp AIRBRAKE DIN 74310

Pressarmaturen: 1.Serie



| Nenndurchmesser I.D. HOSE | | | Fassung FERRULE PART NUMBER | AD Schlauch O.D. HOSE | AD Draht O.D. WIRE | D _A | L | Schällängen SKIVING LENGTH | | Richtpressmaß CRIMPING DIAMETER | Nippeleinfall reduction of the internal fitting diametre |
|------------------------------|------|------|-----------------------------------|--------------------------|------------------------------|----------------|------|-------------------------------|--------------------------------|------------------------------------|--|
| DN | INCH | SIZE | | | | | | Innen IN L _I | Außen OUT L _A | | |
| | | | | d ₂ mm | d ₃ mm +/- 0,4 | mm | mm | mm +1 / 0 | mm +1 / 0 | mm | mm min...max |
| 7 | - | - | 111-04 | 14,0 | - | 19,5 | 30,2 | 0,0 | 0,0 | 17,3 | 0,0 |
| 9 | - | - | 111-05 | 16,0 | - | 20,6 | 30,2 | 0,0 | 0,0 | 18,5 | 0,0 |
| 11 | - | - | 111-06 | 18,0 | - | 23,2 | 32,0 | 0,0 | 0,0 | 20,3 | 0,0 |
| 13 | - | - | BW103232 | 25,0 | - | 30,0 | 34,0 | 0,0 | 0,0 | 26,5 | 0,0 |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

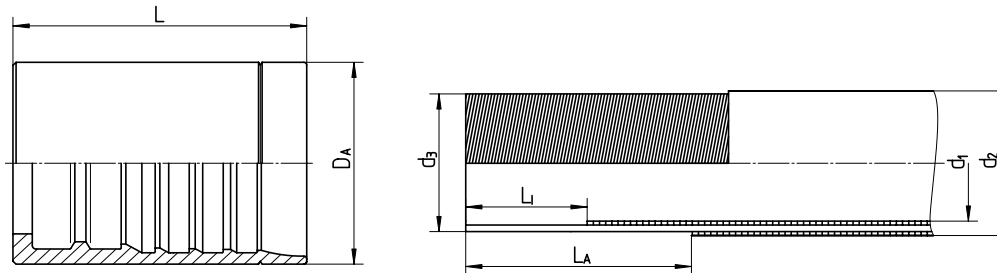
*Die Pressmaße und Schällängen sind Richtwerte. Das ordnungsgemäße Verpressen der Armaturen ist vom Schlauchleitungshersteller mit entsprechenden Mitteln (z.B. Prüfen des Nippeleinfalls mittels Dorn) zu prüfen.
 * The crimping diametre and the skive length is a guideline. The proper crimping of the fitting needs to be verified by the hose manufacturer with appropriate tools (e.g. reduction of the internal fitting diameter with help of a test pin)

| | | | | | | |
|----------|----------|----------------|--|-----------------|------|---|
| | Datum | Änderungsstand | | Pressmaßtabelle | 8-38 |  |
| Stand | 28.10.08 | A (DN16 hinzu) | | | | |
| Geprüft: | 03.08.09 | Hegenberg | | | | |

Schlauchtyp 4SP - DIN EN 856 - 40-...

Pressarmaturen:

7.Serie




| DN | Nenndurchmesser I.D. HOSE | | Fassung FERRULE PART NUMBER | AD Schlauch O.D. HOSE d ₂ mm max. | AD Draht O.D. WIRE d ₃ mm +/- 0,4 | D _A mm | L mm | Schällängen SKIVING LENGTH | | Richtpressmaß* CRIMPING DIAMETER* mm | Nippelinfeld reduction of the internal fitting diametre mm min...max |
|----|------------------------------|------|-----------------------------------|---|---|----------------------|---------|--|---|--|---|
| | INCH | SIZE | | | | | | Innen IN L ₁ mm +1 / 0 | Außen OUT L _A mm +1 / 0 | | |
| 6 | 1/4" | 04 | 740-04 | 17,1...18,7 | 14,1...15,3 | 23,2 | 38,0 | 9,0 | 30,0 | 20,7 | 0,1...0,4 |
| 10 | 3/8" | 06 | 740-06 | 21,4 | 17,5 | 27,0 | 45,0 | 14,0 | 37,0 | 23,6 | 0,1...0,5 |
| 12 | 1/2" | 08 | 740-08 | 24,6 | 20,2 | 30,0 | 46,0 | 14,0 | 38,0 | 26,7 | 0,3...0,7 |
| 16 | 3/4" | 10 | 740-10 | 28,2 | 23,8 | 34,0 | 50,0 | 16,0 | 40,0 | 29,2 | 0,4...0,7 |

Ermittlung der Werte anhand von Schläuchen der Firmen: Alfagomma, Sempert

*Die Pressmaße und Schällängen sind Richtwerte. Das ordnungsgemäße Verpressen der Armaturen ist vom Schlauchleitungshersteller mit entsprechenden Mitteln (z.B. Prüfen des Nippelinfelds mittels Dorn) zu prüfen.

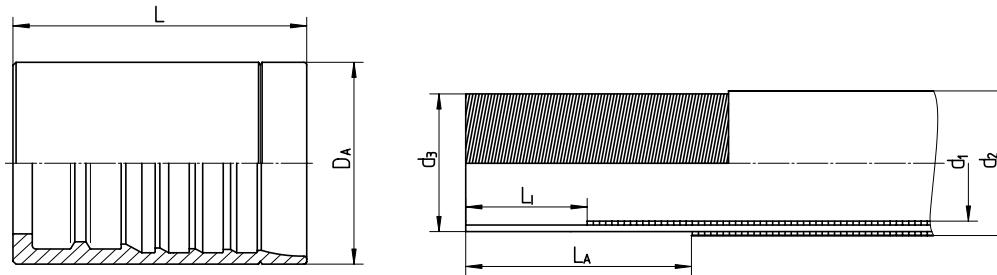
* The crimping diametre and the skive length is a guideline. The proper crimping of the fitting needs to be verified by the hose manufacturer with appropriate tools (e.g. reduction of the internal fitting diameter with help of a test pin)

| | | | | | | |
|----------|----------|----------------|--|-----------------|------|---|
| | Datum | Änderungsstand | | Pressmaßtabelle | 8-39 |  |
| Stand | 09.05.11 | C | | | | |
| Geprüft: | 09.05.11 | Hegenberg | | Crimping Table | | |

Schlauchtyp 88-

Pressarmaturen:

8. Serie




| DN | Nenndurchmesser I.D. HOSE | | Fassung FERRULE PART NUMBER | AD Schlauch O.D. HOSE d ₂ mm max. | AD Draht O.D. WIRE d ₃ mm +/- 0,4 | D _A mm | L mm | Schällängen SKIVING LENGTH | | Richtpressmaß* CRIMPING DIAMETER* mm | Nippel­einfall reduction of the internal fitting diametre mm min...max |
|----|------------------------------|------|-----------------------------------|---|---|----------------------|---------|--|---|--|---|
| | INCH | SIZE | | | | | | Innen IN L _i mm +1 / 0 | Außen OUT L _A mm +1 / 0 | | |
| 19 | 3/4" | 12 | 860-12 | 35,5 | 31,8 | 44,0 | 70,0 | 20,0 | 61,0 | 38,1 | 0,7...1,2 |
| 25 | 1" | 16 | 860-16 | 43,4 | 40,2 | 46,0 | 83,5 | 26,0 | 72,5 | 48,8 | 1,0 ...1,6 |
| 32 | 1 1/4" | 20 | 860-20 | 51,9 | 47,7 | 63,5 | 105,0 | 26,0 | 92,0 | 55,5 | 1,2 ...2,0 |
| | | | | | | | | | | | |

Ermittlung der Werte anhand von Schläuchen der Firmen: Alfagomma

*Die Pressmaße und Schällängen sind Richtwerte. Das ordnungsgemäße Verpressen der Armaturen ist vom Schlauchleitungshersteller mit entsprechenden Mitteln (z.B. Prüfen des Nippel­einfalls mittels Dorn) zu prüfen.

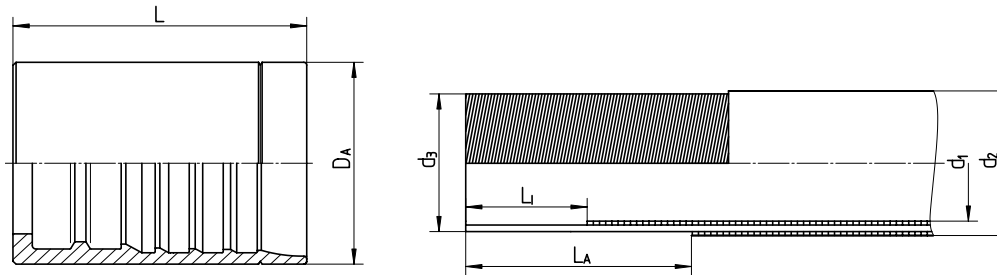
* The crimping diametre and the skive length is a guideline. The proper crimping of the fitting needs to be verified by the hose manufacturer with appropriate tools (e.g. reduction of the internal fitting diameter with help of a test pin)

| | | | | | | |
|----------|----------|----------------|--|-----------------|------|---|
| | Datum | Änderungsstand | | Pressmaßtabelle | 8-40 |  |
| Stand | 28.10.08 | | | | | |
| Geprüft: | 21.11.08 | Hegenberg | | | | |

Schlauchtyp 87-

Pressarmaturen:

7. Serie




| DN | Nenndurchmesser I.D. HOSE | | Fassung FERRULE PART NUMBER | AD Schlauch O.D. HOSE d ₂ mm max. | AD Draht O.D. WIRE d ₃ mm +/- 0,4 | D _A mm | L mm | Schällängen SKIVING LENGTH | | Richtpressmaß* CRIMPING DIAMETER* mm | Nippelreduzierung reduction of the internal fitting diameter mm min...max |
|----|------------------------------|------|-----------------------------------|---|---|----------------------|---------|--|---|--|--|
| | INCH | SIZE | | | | | | Innen IN L ₁ mm +1 / 0 | Außen OUT L _A mm +1 / 0 | | |
| 16 | 5/8" | 10 | 740-10 | 28,6 | 25,6 | 34,0 | 50,0 | 16,0 | 40,0 | 29,9 | 0,4...0,9 |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

Ermittlung der Werte anhand von Schläuchen der Firmen: Alfagomma

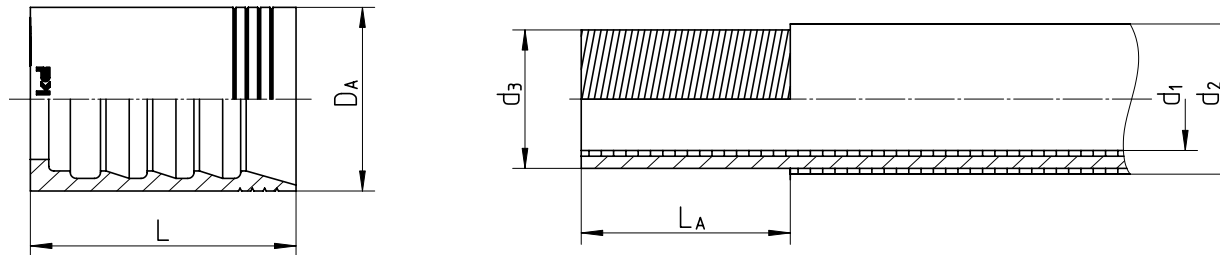
*Die Pressmaße und Schällängen sind Richtwerte. Das ordnungsgemäße Verpressen der Armaturen ist vom Schlauchleitungshersteller mit entsprechenden Mitteln (z.B. Prüfen des Nippelreduzierens mittels Dorn) zu prüfen.

* The crimping diameter and the skive length is a guideline. The proper crimping of the fitting needs to be verified by the hose manufacturer with appropriate tools (e.g. reduction of the internal fitting diameter with help of a test pin)

| | | | | | |
|----------|----------------|--|-----------------|------|---|
| Datum | Änderungsstand | | Pressmaßtabelle | 8-41 |  |
| Stand | A | | | | |
| Geprüft: | Hegenberg | | | | |

Schlauchtyp 3SPC 30-


Pressarmaturen: 4.Serie



| DN | Nenndurchmesser I.D. HOSE | | Fassung FERRULE PART NUMBER | AD Schlauch O.D. HOSE | AD Draht O.D. WIRE | D _A | L | Schällängen SKIVING LENGTH | | Richtpressmaß* CRIMPING DIAMETER* | Nippelreife reduction of the internal fitting diameter |
|----|------------------------------|------|-----------------------------------|--------------------------|--------------------------------|----------------|------|-------------------------------|--------------------------------|--------------------------------------|--|
| | INCH | SIZE | | | | | | Innen IN L _I | Außen OUT L _A | | |
| | | | | d ₂ mm | d ₃ mm min...max | mm | mm | mm +1 / 0 | mm +1 / 0 | mm | mm min...max |
| 10 | 3/8" | 06 | 440-06 | 21,4 | 17,0 | 25,5 | 38,9 | - | 27,0 | 22,4 | 0,6...0,9 |
| 12 | 1/2" | 08 | 440-08 | 24,2 | 20,2 | 28,5 | 41,2 | - | 30,5 | 26,3 | 0,6...0,9 |
| 16 | 5/8" | 10 | 440-10 | 28,1 | 23,8 | 33,0 | 44,0 | - | 34,0 | 29,9 | 0,6...0,9 |
| 19 | 3/4" | 12 | 440-12 | 31,8 | 27,8 | 37,5 | 51,1 | - | 38,0 | 35,0 | 0,6...0,9 |
| 25 | 1" | 16 | 440-16 | 39,0 | 34,9 | 46,0 | 61,7 | - | 49,0 | 42,8 | 0,6...1,0 |

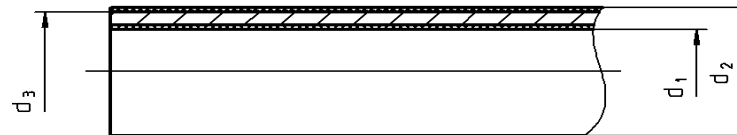
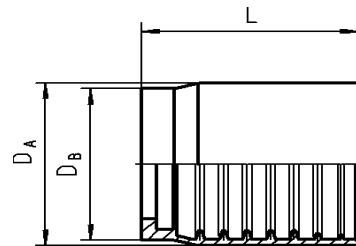
*Die Pressmaße und Schällängen sind Richtwerte. Das ordnungsgemäße Verpressen der Armaturen ist vom Schlauchleitungshersteller mit entsprechenden Mitteln (z.B. Prüfen des Nippelreife mittels Dorn) zu prüfen.

* The crimping diameter and the skive length is a guideline. The proper crimping of the fitting needs to be verified by the hose manufacturer with appropriate tools (e.g. reduction of the internal fitting diameter with help of a test pin)

| | | | | |
|----------|----------------|-----------------------------------|------|---|
| Datum | Änderungsstand | Pressmaßtabelle Crimping Table | 8-42 |  |
| Stand | (A) | | | |
| Geprüft: | Hegenberg | | | |

**Schlauchtyp 2SC Hochabriebfest - DIN EN 857 - 29-...- HAF
2SC HIGH ABRASION RESISTENT**

Pressarmaturen: 1.Serie




| DN | Nenndurchmesser I.D. HOSE | | Fassung FERRULE PART NUMBER | AD Schlauch O.D. HOSE d ₂ mm max. | AD Draht O.D. WIRE d ₃ mm/min ... max | D _A mm | L mm | Schällängen SKIVING LENGTH | | Richtpressmaß CRIMPING DIAMETER mm | Nippelreduktion reduction of the internal fitting diameter mm min...max |
|-----------------|------------------------------|------|-----------------------------------|---|---|--------------------------|-------------|--|---|--|--|
| | INCH | SIZE | | | | | | Innen IN L _I mm +1 / 0 | Außen OUT L _A mm +1 / 0 | | |
| No skive | | | | | | | | | | | |
| 6 | 1/4" | 04 | 101-04 | 14,2 | 10,6 ... 11,6 | 22,0 | 30,0 | ohne | ohne | 17,5 | 0,1 ... 0,4 |
| 8 | 5/16" | 05 | 101-05 | 16,0 | 12,1 ... 13,3 | 24,0 | 30,0 | ohne | ohne | 18,9 | 0,1 ... 0,5 |
| 10 | 3/8" | 06 | 101-06 | 18,3 | 14,4 ... 15,6 | 27,0 | 32,0 | ohne | ohne | 21,4 | 0,3 ... 0,7 |
| 12 | 1/2" | 08 | 101-08 | 21,5 | 17,5 ... 19,1 | 30,0 | 34,0 | ohne | ohne | 24,6 | 0,4 ... 0,8 |
| 16 | 5/8" | 10 | 101-10 | 24,7 | 20,5 ... 22,3 | 34,0 | 37,0 | ohne | ohne | 28,5 | 0,4 ... 1,0 |
| 110-05 | | | | | | | | | | | |
| skive | | | | | | | | | | | |
| 8 | 5/16" | 05 | 110-06 | 18,3 | 14,4 ... 15,6 | 20,4 | 30,5 | ohne | 24,0 | 18,2 | 0,1 ... 0,5 |
| 10 | 3/8" | 06 | 110-06 | 18,3 | 14,4 ... 15,6 | 27,0 | 32,0 | ohne | 25,0 | 20,7 | 0,3 ... 0,7 |
| 12 | 1/2" | 08 | 110-08 | 21,5 | 17,5 ... 19,1 | 30,0 | 34,0 | ohne | 25,0 | 24,8 | 0,4 ... 0,8 |

Ermittlung der Werte anhand von Schläuchen der Firmen: Semperit SEMPERSHIELD SSC, Alfagomma FLEXOPACK2 SUPERTUFF DN10

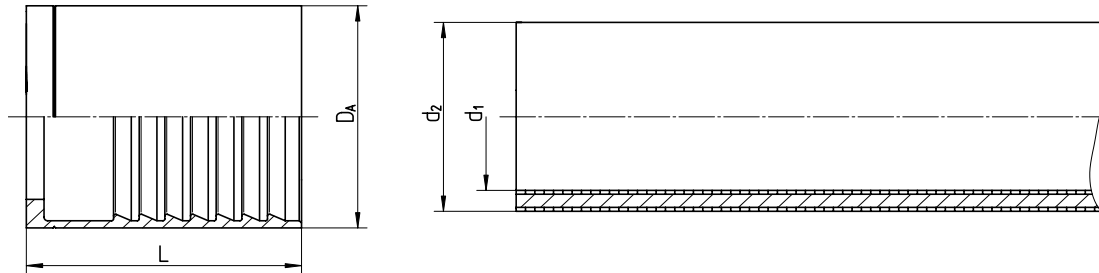
*Die Pressmaße und Schällängen sind Richtwerte. Das ordnungsgemäße Verpressen der Armaturen ist vom Schlauchleitungshersteller mit entsprechenden Mitteln (z.B. Prüfen des Nippelreduktion mittels Dorn) zu prüfen.

* The crimping diameter and the skive length is a guideline. The proper crimping of the fitting needs to be verified by the hose manufacturer with appropriate tools (e.g. reduction of the internal fitting diameter with help of a test pin)

| | | | | |
|----------|----------------|-----------------------------------|------|---|
| Datum | Änderungsstand | Pressmaßtabelle Crimping Table | 8-43 |  |
| Stand | 17.03.10 | | | |
| Geprüft: | 17.03.10 | | | |

Schlauchtyp MTH1 Thermoplastic -TPP1-...PU

Pressarmaturen: 1.Serie




| Nenndurchmesser I.D. HOSE | | | Fassung FERRULE PART NUMBER | AD Schlauch O.D. HOSE | AD Draht O.D. WIRE | D _A | L | Schällängen SKIVING LENGTH | | Richtpressmaß CRIMPING DIAMETER | Nippeleinfall reduction of the internal fitting diametre |
|------------------------------|-------|------|-----------------------------------|--------------------------|-----------------------|----------------|------|-------------------------------|--------------------------------|------------------------------------|--|
| DN | INCH | SIZE | | | | | | Innen IN L _I | Außen OUT L _A | | |
| | | | | d ₂ mm max | d ₃ mm | mm | mm | mm +1 / 0 | mm +1 / 0 | mm | mm min...max |
| 5 | 3/16" | 03 | 111-03 | 10,0 | - | 17,0 | 27,3 | 0,0 | 0,0 | 13,0 | 0,1...0,3 |
| 6 | 1/4" | 04 | 111-04 | 11,9 | - | 19,5 | 30,2 | 0,0 | 0,0 | 15,8 | 0,1...0,4 |
| 8 | 5/16" | 05 | 111-05 | 14,0 | - | 20,6 | 30,2 | 0,0 | 0,0 | 17,2 | 0,1...0,5 |
| 10 | 3/8" | 06 | 111-06 | 16,0 | - | 23,2 | 32,0 | 0,0 | 0,0 | 19,6 | 0,3...0,7 |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

Ermittlung der Werte anhand von Schläuchen der Firmen: ZEC

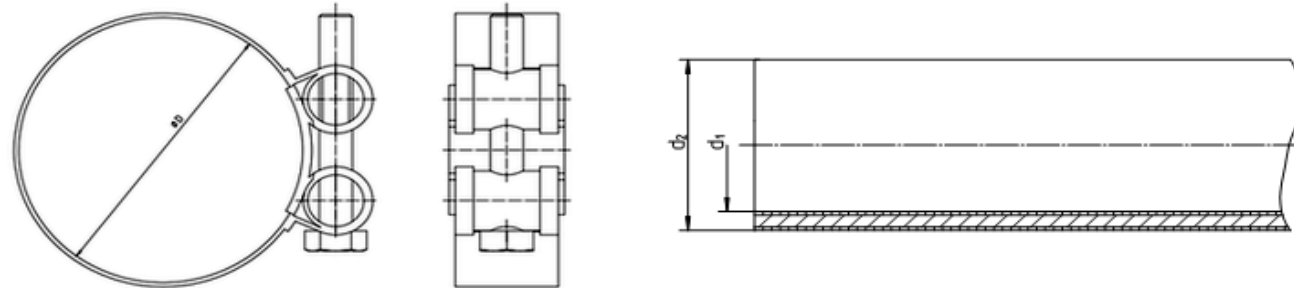
*Die Pressmaße und Schällängen sind Richtwerte. Das ordnungsgemäße Verpressen der Armaturen ist vom Schlauchleitungshersteller mit entsprechenden Mitteln (z.B. Prüfen des Nippeleinfalls mittels Dorn) zu prüfen.

* The crimping diametre and the skive length is a guideline. The proper crimping of the fitting needs to be verified by the hose manufacturer with appropriate tools (e.g. reduction of the internal fitting diameter with help of a test pin)

| | | | | | | |
|----------|----------|----------------|--|-----------------|------|---|
| | Datum | Änderungsstand | | Pressmaßtabelle | 8-44 |  |
| Stand | 03.11.11 | C | | | | |
| Geprüft: | 03.11.11 | Hegenberg | | | | |

Saugschlauch 17G-.. (Verarbeitung mit Schelle 119-)

Pressarmaturen: 17. Serie



| DN | Nenndurchmesser I.D. HOSE | | Schelle HOSE CLAMP | ID Schlauch I.D. HOSE d ₂ mm | AD Schlauch O.D. HOSE d ₂ mm | Spannbereich CLAMPING RANGE mm | D _A mm | L mm | SKIVING LENGTH | | Anzugsdrehmoment TORQUE Nm | max. Drehmoment TORQUE MAX. max. Nm |
|-----|------------------------------|------|-----------------------|--|--|---|--------------------------|-------------|--|---|--------------------------------------|---|
| | INCH | SIZE | | | | | | | Innen IN L _I mm +1 / 0 | Außen OUT L _A mm +1 / 0 | | |
| 19 | 3/4" | 12 | 119-004 | 20 ± 0,25 | 28 ± 1,25 | 27-29 | | | - | - | 4,0 | 7,0 |
| 25 | 1" | 16 | 119-006 | 25 ± 1,25 | 33 ± 1,50 | 31-34 | | | - | - | 4,0 | 16,0 |
| 31 | 1 1/4" | 20 | 119-009 | 32 ± 1,50 | 42 ± 1,50 | 40-43 | | | - | - | 5,0 | 16,0 |
| 38 | 1 1/2" | 24 | 119-010 | 38 ± 1,50 | 48 ± 1,50 | 47-51 | | | - | - | 8,0 | 16,0 |
| 51 | 2" | 32 | 119-014 | 52 ± 1,50 | 63 ± 1,50 | 59-63 | | | - | - | 8,0 | 16,0 |
| 60 | 2 3/8" | 36 | 119-016 | 60 ± 1,50 | 72 ± 2,00 | 68-73 | | | - | - | 10,0 | 25,0 |
| 63 | 2 1/2" | 40 | 119-017 | 63 ± 1,50 | 75 ± 2,00 | 73-79 | | | - | - | 12,0 | 25,0 |
| 76 | 3" | 48 | 119-020 | 76 ± 2,00 | 88 ± 2,00 | 85-91 | | | - | - | 20,0 | 25,0 |
| 90 | 3 1/2" | 56 | 119-023, -024 | 90 ± 2,00 | 105 ± 2,00 | 97-104, 104-112 | | | - | - | 25,0 | 25,0 |
| 100 | 4" | 64 | 119-025 | 102 ± 2,00 | 117 ± 2,00 | 112-121 | | | - | - | | 25,0 |
| 127 | 5" | 80 | 119-028 | 127 ± 2,00 | 145 ± 2,00 | 140-150 | | | - | - | | 50,0 |
| 152 | 6" | 96 | 119-030 | 152 ± 2,00 | 170 ± 2,00 | 162-174 | | | - | - | | 50,0 |