

SEMPERIT

TOP PERFORMANCE UNDER PRESSURE

SEMPERIT HYDRAULIC AND PRESSURE WASHER HOSES

SEMPERIT

The Austrian Semperit AG is an international group of companies for highly specialized rubber products. As leading European manufacturer of **hydraulic hoses**, the **Semperit Hoses** business develops and distributes products from highest quality standards for a wide range of applications since 1872.

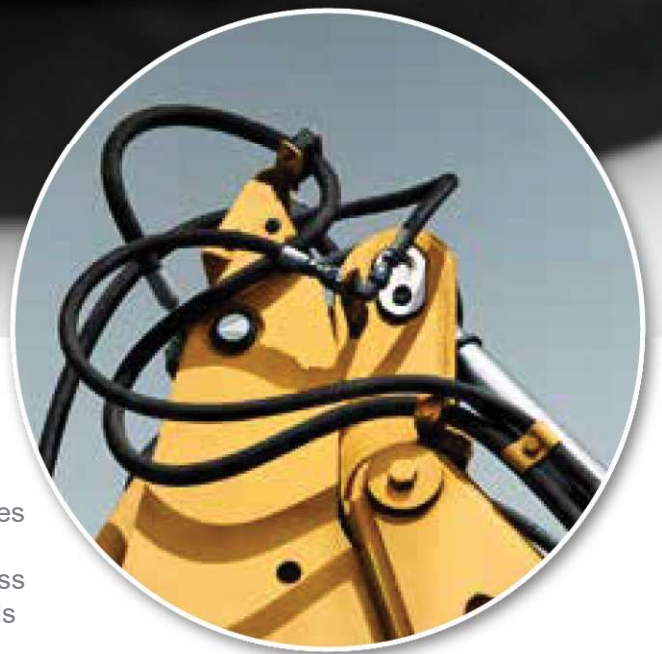


TABLE OF CONTENT

1. HYDRAULIC HOSES – GENERAL INFORMATION

4

2. HYDRAULIC HOSE TYPE



2.1. ONE WIRE BRAID HYDRAULIC HOSES

- DIN EN 853 1SN / SAE 100 R1AT 9
- DIN EN 857 1SC 10
- SAE 100 R17 11



2.2. TWO WIRE BRAID HYDRAULIC HOSES

- DIN EN 853 2SN / SAE 100 R2AT 12
- DIN EN 857 2SC 13
- SAE 100 R16-S 14
- SAE 100 R19 15



2.3. SPECIALTIES WIRE BRAID HYDRAULIC HOSES

- SEMPERPAC 1SN-K 16
- SEMPERRAIL 1SN-K 17
- SEMPERPAC 2SN-K 18
- SEMPERRAIL 2SN-K 19
- SEMPERSHIELD SSC 20
- DIN EN 853 1SN EHT 21
- 1SN SEMPERCOLD 22
- 2SN SEMPERCOLD 23
- 1SC SEMPERCOLD 24
- 2SC SEMPERCOLD 25
- 2SN-K SEMPERCOLD 26
- 1SC SEMPERFORK 27
- SEMPERPILOT 28
- AGROFLEX 29
- JACKHOSE COMPACT 30
- SUPERPAC SPC 2 31
- FLEXLINE 1000 32
- SEMPERHUB 33



2.4. MULTISPIRAL HYDRAULIC HOSES

- DIN EN 856 4SP 34
- DIN EN 856 4SH 35
- DIN EN 856 / SAE 100 R12 36
- DIN EN 856 / SAE 100 R13 37
- SAE 100 R15 38



2.5. SPECIALTIES MULTISPIRAL HYDRAULIC HOSES

- SEMPERRAIL 4SP 39
- FLEXLINE 4000 40
- FLEXLINE 5000 41
- FLEXLINE 6000 42
- FLEXLINE PLUS 43
- SEMPERMAX 44

3. PRESSURE WASHER HOSES – GENERAL INFORMATION 45



4. PRESSURE WASHER HOSE TYPES

- SEMPERJET 1SN 49
- SEMPERJET 2SN 50
- SEMPERJET 210 51
- SEMPERJET 250 52
- SEMPERJET LONGLIFE 400 53
- SEMPERJET LONGLIFE 500 54
- SEMPERJET ECO 3000 55
- SEMPERJET ECO 4000 56
- SEMPERJET ECO 5000 57
- SEMPERJET ECO 6000 58

5. HOSE TYPE APPROVAL CERTIFICATES SPECIFICATION OF HOSE LENGTH IN ONE SHIPMENT 59

6. GENERAL INFORMATION ON USE 61



**HYDRAULIC HOSES –
GENERAL INFORMATION**

HYDRAULIC HOSES AND WORKING MEDIUM

Our hydraulic hoses are generally suitable for mineral and synthetic oil based hydraulic fluids (HL, HLP, HLPD, HVLP), for oil water emulsions (HFAE, HFAS, HFB), and for water glycol solutions (HFC), as well as for vegetable and mineral oil-based lubricants. In individual cases, there may be restrictions to the use due to manufacturer specific oil additives.

Our hydraulic hoses are not designated for sale to the general public and do not fulfill the conditions for “GS-certification” (voluntary certification related to tested safety). If you or your customers should intend to sell our hydraulic hoses to the general public / or in case you require hydraulic hoses suited for GS-certification please contact a Semperit specialist.

Our hydraulic hoses are not suitable for hydraulic fluids based on chlorinated hydrocarbons or phosphate esters (HFD R/ S/T).

Our hydraulic hoses are suitable for compressed air up to a maximum of 50 bar/ 80°C, with a restricted service life time.

In principle, they are suitable for biodegradable hydraulic fluids (bio oils, HETG, HEPG, HEES), but this may be restricted by manufacturer specific oil additives.

Caution: The hose's inner surface (inner liner) must be appropriate for the medium used in the application (oil, water, air), as otherwise the hose can be damaged or destroyed by the working medium or its contents and eventually fail, which can result in (partial or serious) material damage and personal injury.

For safety reasons, in case of individual questions or uncertainties about the choice, use or proper handling, please contact a Semperit specialist.


| DN | DIN EN 853 1 SN / SAE 100 R1AT | | DIN EN 857 1 SC | | SAE 100 R 17 | | DIN EN 853 2 SN / SAE 100 R2AT | | DIN EN 857 2 SC | | SAE 100 R 16-S | | SEMPERPAC 1 SN-K | | SEMPERRAIL 1 SN-K | | SEMPERPAC 2 SN-K | | SEMPERRAIL 2 SN-K | | SEMPERSHIELD SSC | | DIN EN 853 1 SN EHT | | 1SN SEMPERCOLD | | 2SN SEMPERCOLD | | 1SC SEMPERCOLD | | 2SC SEMPERCOLD | | 1SC SEMPERFORK | | SEMPERPILOT | | AGROFLEX | | JACKHOSE COMPACT | | SUPERPAC SPC 2 | | | | | | |
|----|--------------------------------|------|-----------------|------|--------------|------|--------------------------------|------|-----------------|------|----------------|------|------------------|------|-------------------|------|------------------|------|-------------------|------|------------------|------|---------------------|------|----------------|------|----------------|------|----------------|------|----------------|------|----------------|------|-------------|------|----------|------|------------------|------|----------------|------|--|--|--|--|--|
| | mm | inch | dash | [wp] | [wp] | [wp] | [wp] | [wp] | [wp] | [wp] | [wp] | [wp] | [wp] | [wp] | [wp] | [wp] | [wp] | [wp] | [wp] | [wp] | [wp] | [wp] | [wp] | [wp] | [wp] | [wp] | [wp] | [wp] | [wp] | [wp] | [wp] | [wp] | [wp] | [wp] | [wp] | [wp] | [wp] | [wp] | [wp] | [wp] | [wp] | [wp] | | | | | |
| 6 | 1/4 | -4 | 225 | 225 | 210 | 400 | 400 | 400 | 290 | 290 | 450 | 450 | 400 | 225 | 225 | 400 | 225 | 400 | | 125 | 210 | 700 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | 5/16 | -5 | 215 | 215 | 210 | 350 | 350 | 350 | 250 | 250 | 420 | 420 | 375 | 215 | 215 | 350 | 215 | 350 | | 125 | 210 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | 3/8 | 6 | 180 | 180 | 210 | 330 | 330 | 330 | 230 | 230 | 385 | 385 | 350 | 180 | 180 | 330 | 180 | 330 | 225 | 125 | 210 | 700 | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | 1/2 | -8 | 160 | 160 | 210 | 275 | 275 | 275 | 200 | 200 | 350 | 350 | 300 | 160 | 160 | 275 | 160 | 275 | | 125 | 210 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16 | 5/8 | -10 | 130 | 130 | 210 | 250 | 250 | 250 | 150 | 150 | 290 | 290 | 275 | 130 | 130 | 250 | 130 | 250 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 19 | 3/4 | -12 | 105 | 105 | 210 | 215 | 215 | 215 | 125 | 125 | 280 | 280 | 235 | 105 | 105 | 215 | 105 | 215 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 25 | 1 | 16 | 88 | 88 | 210 | 165 | 165 | 165 | 110 | 110 | 200 | 200 | 185 | 88 | 88 | 165 | 88 | 165 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 31 | 1 1/4 | -20 | 63 | | | 125 | | | 100 | | 175 | | | 63 | 63 | 125 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 38 | 1 1/2 | -24 | 50 | 52 | | 90 | 100 | | | | | | | 50 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 51 | 2 | -32 | 40 | | | 80 | 90 | | | | | | | 40 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Working pressure [wp] in bar

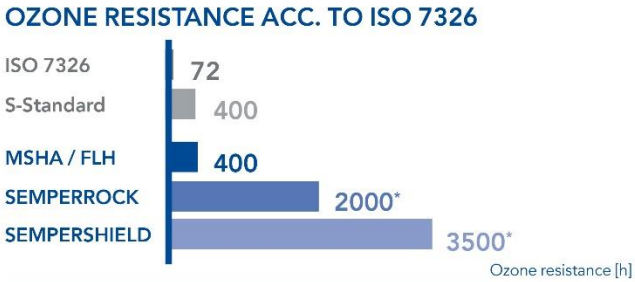
| mm | inch | dash | [br] | [br] | [br] | [br] | [br] | [br] | [br] | [br] | [br] | [br] | [br] | [br] | [br] | [br] | [br] | [br] | [br] | [br] | [br] | [br] | [br] | [br] | [br] | [br] | [br] | [br] | [br] | [br] | [br] | [br] | [br] | [br] | [br] | [br] | [br] | [br] | [br] | [br] | [br] | [br] | [br] | [br] | [br] | [br] | | | |
|----|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--|--|--|
| 6 | 1/4 | -4 | 100 | 75 | 50 | 100 | 75 | 50 | 40 | 40 | 45 | 45 | 75 | 100 | 100 | 100 | 75 | 75 | | 30 | 45 | 75 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | 5/16 | -5 | 115 | 85 | 55 | 115 | 85 | 55 | 55 | 55 | 60 | 60 | 85 | 115 | 115 | 115 | 85 | 85 | | 40 | 50 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | 3/8 | 6 | 125 | 90 | 65 | 125 | 90 | 65 | 65 | 65 | 70 | 70 | 90 | 125 | 125 | 125 | 90 | 90 | 90 | 50 | 60 | 90 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | 1/2 | -8 | 180 | 130 | 90 | 180 | 130 | 90 | 80 | 80 | 90 | 90 | 130 | 180 | 180 | 180 | 130 | 130 | | 60 | 85 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16 | 5/8 | -10 | 200 | 150 | 100 | 200 | 170 | 100 | 105 | 105 | 130 | 130 | 170 | 200 | 200 | 200 | 150 | 170 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 19 | 3/4 | -12 | 240 | 180 | 120 | 240 | 200 | 120 | 120 | 120 | 160 | 160 | 200 | 240 | 240 | 240 | 180 | 200 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 25 | 1 | 16 | 300 | 230 | 150 | 300 | 250 | 150 | 160 | 160 | 210 | 210 | 250 | 300 | 300 | 300 | 230 | 250 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 31 | 1 1/4 | -20 | 420 | | | 420 | | | 300 | | 300 | | | 420 | 420 | 420 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 38 | 1 1/2 | -24 | 500 | 300 | | 500 | 300 | | | | | | | 500 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 51 | 2 | -32 | 630 | | | 630 | 430 | | | | | | | 630 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Bend radius [br] in mm

MODULAR SYSTEM FOR HYDRAULIC HOSES

| 1 HOSES | 2 COVERS | 3 BRANDINGS |
|--|--|--|
|  <p>HOSE</p> <p>One Wire Braid Hydraulic Hoses Two Wire Braid Hydraulic Hoses Semperit Specialities Wire Braid Hydraulic Hoses Multispiral Hydraulic Hoses Semperit Specialities Multispiral Hydraulic Hoses</p> |  <p>COVER</p> <p>Standard Semperit Cover</p> <ul style="list-style-type: none"> • Improved wear and abrasion resistance compared to EN/ISO requirements • Improved ozone resistance compared to EN/ISO requirements <p>MSHA Cover</p> <ul style="list-style-type: none"> • Mine Safety and Health Administration • Standard Cover for Spiral Hoses • Flame retardant <p>SEMPERROCK Cover</p> <ul style="list-style-type: none"> • Very high wear and abrasion resistance • Very high ozone resistance • Very high weather and salt water resistance • Flame retardant • MSHA approved <p>SEMPERSHIELD Cover</p> <p>Double layer construction – rubber cover with UHMPE foil</p> <ul style="list-style-type: none"> • Outstanding wear and abrasion resistance • Outstanding ozone and UV resistance • MSHA approved |  <p>BRANDING</p> <p>Embossed Branding</p> <p>Standard for Wire Braid Hoses (Except Sempershield cover), Pressure Washer Hoses, Spiral Hoses with DSK Cover</p> <p>Mylar Tape Branding</p> <p>Standard for Spiral hoses Wire Braid Hoses with Sempershield Cover</p> <p>Inkjet Branding</p> <p>Standard for 1SN EHT, Agroflox, Semperpilot</p> |

Please contact our sales department to discuss details.



* Extrapolated Values
Singular test result

2

**HYDRAULIC HOSE
TYPES**

DIN EN 853 1 SN SAE 100 R 1 S

Wire braid hydraulic hose meets EN 853 1SN, SAE 100R1 and ISO 1436 1SN



GENERAL

| | |
|--------------------------|---|
| Tube | Synthetic rubber, resistant against hydraulic fluids (HL, HLP, HLPD, HVLP, HFA, HFAS, HFB, HFC) |
| Reinforcement | One braid of high tensile steel wire |
| Cover | Abrasion and ozone resistant synthetic rubber Note: various covers available |
| Temperature range | -40°C to 100°C / -40°F to +212°F [max 120°C / 248°F intermittent] |
| Standard branding | Embossed tape |

TECHNICAL DETAILS

| Nominal | | | Internal-Ø | | Braid-Ø | | External-Ø | | Work. pressure [max.] | | Min. burst pressure | | Bending radius [min.] | | Weight approx. | |
|---------|-------|------|------------|------|---------|------|------------|------|-----------------------|------|---------------------|-------|-----------------------|------|----------------|------|
| mm | inch | dash | mm | inch | mm | inch | mm | inch | bar | psi | bar | psi | mm | inch | lbs/ft | kg/m |
| 6 | 1/4 | -4 | 6,6 | 0.26 | 10,8 | 0.43 | 12,9 | 0.51 | 225 | 3265 | 900 | 13060 | 100 | 3.9 | 0.12 | 0,18 |
| 8 | 5/16 | -5 | 8,3 | 0,32 | 12,5 | 0,49 | 14,7 | 0,58 | 215 | 3120 | 860 | 12480 | 115 | 4.5 | 0.15 | 0,22 |
| 10 | 3/8 | -6 | 9,9 | 0.39 | 14,8 | 0.58 | 16,7 | 0.66 | 180 | 2610 | 720 | 10440 | 125 | 4.9 | 0.19 | 0,29 |
| 12 | 1/2 | -8 | 13,0 | 0.51 | 17,9 | 0.70 | 19,9 | 0.78 | 160 | 2320 | 640 | 9280 | 180 | 7.1 | 0.24 | 0,36 |
| 16 | 5/8 | -10 | 16,4 | 0.65 | 21,0 | 0.83 | 23,2 | 0.91 | 130 | 1885 | 520 | 7540 | 200 | 7.9 | 0.28 | 0,42 |
| 19 | 3/4 | -12 | 19,5 | 0.77 | 25,0 | 0.98 | 27,1 | 1.07 | 105 | 1525 | 420 | 6100 | 240 | 9.4 | 0.36 | 0,53 |
| 25 | 1 | -16 | 26,0 | 1.02 | 32,9 | 1.30 | 35,1 | 1.38 | 88 | 1275 | 352 | 5100 | 300 | 11.8 | 0.55 | 0,82 |
| 31 | 1-1/4 | -20 | 32,5 | 1.28 | 39,9 | 1.57 | 42,5 | 1.67 | 63 | 915 | 252 | 3660 | 420 | 16.5 | 0.70 | 1,04 |
| 38 | 1-1/2 | -24 | 38,7 | 1.52 | 46,5 | 1.83 | 50,1 | 1.97 | 50 | 725 | 200 | 2900 | 500 | 19.7 | 0.95 | 1,41 |
| 51 | 2 | -32 | 51,1 | 2.01 | 60,1 | 2.36 | 64,1 | 2.52 | 40 | 580 | 160 | 2320 | 630 | 24.8 | 1.37 | 2,04 |

DIN EN 857 1 SC

Compact hydraulic hose construction acc. to EN 857 1SC



GENERAL

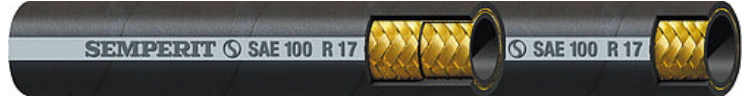
| | |
|--------------------------|---|
| Tube | Synthetic rubber, resistant against hydraulic fluids (HL, HLP, HLPD, HVLP, HFA, HFAS, HFB, HFC) |
| Reinforcement | One braid of high tensile steel wire |
| Cover | Abrasion and ozone resistant synthetic rubber Note: various covers available |
| Temperature range | -40°C to 100°C / -40°F to +212°F [max 120°C / 248°F intermittent] |
| Standard branding | Embossed tape |

TECHNICAL DETAILS

| Nominal | | | Internal-Ø | | Braid-Ø | | External-Ø | | Work. pressure (max.) | | Min. burst pressure | | Bending radius (min.) | | Weight approx. | |
|---------|-------|------|------------|------|---------|------|------------|------|-----------------------|------|---------------------|-------|-----------------------|------|----------------|-------|
| mm | inch | dash | mm | inch | mm | inch | mm | inch | bar | psi | bar | psi | mm | inch | lbs/ft | kg/m |
| 6 | 1/4 | -4 | 6,6 | 0.26 | 10,1 | 0.40 | 11,9 | 0.47 | 225 | 3265 | 900 | 13060 | 75 | 3.0 | 0.11 | 0,16 |
| 8 | 5/16 | -5 | 8,3 | 0,33 | 11,7 | 0,46 | 13,7 | 0,54 | 215 | 3120 | 860 | 12480 | 85 | 3.3 | 0.13 | 0,20 |
| 10 | 3/8 | -6 | 9,9 | 0.39 | 13,6 | 0.53 | 15,7 | 0.62 | 180 | 2610 | 720 | 10440 | 90 | 3.5 | 0.16 | 0,24 |
| 12 | 1/2 | -8 | 13,0 | 0.51 | 16,6 | 0.65 | 19,4 | 0.76 | 160 | 2320 | 640 | 9280 | 130 | 5.1 | 0.22 | 0,33 |
| 16 | 5/8 | -10 | 16,4 | 0.65 | 20,3 | 0.80 | 22,3 | 0.88 | 130 | 1885 | 520 | 7540 | 150 | 5.9 | 0.26 | 0,39 |
| 19 | 3/4 | -12 | 19,5 | 0.77 | 24,0 | 0.94 | 26,0 | 1.02 | 105 | 1525 | 420 | 6100 | 180 | 7.1 | 0.33 | 0,49 |
| 25 | 1 | -16 | 26,0 | 1.02 | 31,0 | 1.22 | 33,2 | 1.31 | 88 | 1275 | 352 | 5100 | 230 | 9.1 | 0.48 | 0,71 |
| 38 | 1-1/2 | -24 | 38,8 | 1.53 | 46,8 | 1.84 | 50,8 | 2.0 | 52 | 755 | 208 | 3020 | 300 | 11.8 | 1.01 | 11,50 |

SAE 100 R 17

Compact hydraulic hose isobaric construction acc. to SAE 100 R17, exceeds ISO 18752 AC



GENERAL

| | |
|--------------------------|---|
| Tube | Synthetic rubber, resistant against hydraulic fluids (HL, HLP, HLPD, HVLP, HFA, HFAS, HFB, HFC) |
| Reinforcement | One braid DN6 – DN12 and two braids DN16 – DN25 of high tensile steel wire |
| Cover | Abrasion and ozone resistant synthetic rubber Note: various covers available |
| Temperature range | -40°C to 100°C / -40°F to +212°F [max 120°C / 248°F intermittent] |
| Standard branding | Embossed tape |

TECHNICAL DETAILS

| Nominal | | | Internal-Ø | | Braid-Ø | | External-Ø | | Work. pressure (max.) | | Min. burst pressure | | Bending radius (min.) | | Weight approx. | |
|---------|------|------|------------|------|---------|------|------------|------|-----------------------|------|---------------------|-------|-----------------------|------|----------------|------|
| mm | inch | dash | mm | inch | mm | inch | mm | inch | bar | psi | bar | psi | mm | inch | lbs/ft | kg/m |
| 6 | 1/4 | -4 | 6,6 | 0.26 | 10,4 | 0.49 | 12,4 | 0.49 | 210 | 3045 | 840 | 12180 | 50 | 2.0 | 0.11 | 0,16 |
| 8 | 5/16 | -5 | 8,3 | 0,33 | 12,0 | 0,47 | 14,1 | 0,55 | 210 | 3045 | 840 | 12180 | 55 | 2.2 | 0.15 | 0,22 |
| 10 | 3/8 | -6 | 9,9 | 0,39 | 13,9 | 0,55 | 16,0 | 0,63 | 210 | 3045 | 840 | 12180 | 65 | 2.6 | 0.18 | 0,27 |
| 12 | 1/2 | -8 | 13,0 | 0,51 | 17,6 | 0,69 | 19,4 | 0,76 | 210 | 3045 | 840 | 12180 | 90 | 3.5 | 0.26 | 0,39 |
| 16 | 5/8 | -10 | 16,4 | 0,65 | 21,7 | 0,85 | 23,8 | 0,94 | 210 | 3045 | 840 | 12180 | 100 | 3.9 | 0.41 | 0,61 |
| 19 | 3/4 | -12 | 19,5 | 0,77 | 25,5 | 1,0 | 27,6 | 1,09 | 210 | 3045 | 840 | 12180 | 120 | 4.7 | 0.51 | 0,76 |
| 25 | 1 | -16 | 26,0 | 1,02 | 34,0 | 1,34 | 36,2 | 1,43 | 210 | 3045 | 840 | 12180 | 150 | 5.9 | 0.87 | 1,29 |

DIN EN 853 2 SN SAE 100 R 2 S

Wire braid hydraulic hose meets EN 853 2SN, SAE 100R2 and ISO 1436 2SN



GENERAL

| | |
|--------------------------|---|
| Tube | Synthetic rubber, resistant against hydraulic fluids (HL, HLP, HLPD, HVLP, HFA, HFAS, HFB, HFC) |
| Reinforcement | Two braids of high tensile steel wire |
| Cover | Abrasion and ozone resistant synthetic rubber Note: various covers available |
| Temperature range | -40°C to 100°C / -40°F to +212°F [max 120°C / 248°F intermittent] |
| Standard branding | Embossed tape |

TECHNICAL DETAILS

| Nominal | | | Internal-Ø | | Braid-Ø | | External-Ø | | Work. pressure [max.] | | Min. burst pressure | | Bending radius [min.] | | Weight approx. | |
|---------|-------|------|------------|------|---------|------|------------|------|-----------------------|------|---------------------|-------|-----------------------|------|----------------|------|
| mm | inch | dash | mm | inch | mm | inch | mm | inch | bar | psi | bar | psi | mm | inch | lbs/ft | kg/m |
| 6 | 1/4 | -4 | 6,6 | 0.26 | 12,4 | 0.49 | 14,3 | 0.56 | 400 | 5800 | 1600 | 23200 | 100 | 3.9 | 0.21 | 0,31 |
| 8 | 5/16 | -5 | 8,3 | 0.33 | 14,0 | 0.55 | 16,0 | 0.63 | 350 | 5075 | 1400 | 20300 | 115 | 4.5 | 0.25 | 0,37 |
| 10 | 3/8 | -6 | 9,9 | 0.39 | 16,4 | 0.65 | 18,4 | 0.72 | 330 | 4785 | 1320 | 19140 | 130 | 5.1 | 0.30 | 0,44 |
| 12 | 1/2 | -8 | 13,0 | 0.51 | 19,4 | 0.76 | 21,3 | 0.84 | 275 | 4000 | 1100 | 16000 | 180 | 7.1 | 0.36 | 0,53 |
| 16 | 5/8 | -10 | 16,4 | 0.65 | 22,6 | 0.89 | 24,6 | 0.97 | 250 | 3625 | 1000 | 14500 | 200 | 7.9 | 0.45 | 0,67 |
| 19 | 3/4 | -12 | 19,5 | 0.77 | 26,6 | 1.05 | 28,6 | 1.13 | 215 | 3120 | 860 | 12480 | 240 | 9.4 | 0.56 | 0,84 |
| 25 | 1 | -16 | 26,0 | 1.02 | 34,5 | 1.36 | 37,1 | 1.46 | 165 | 2395 | 660 | 9580 | 300 | 11.8 | 0.83 | 1,23 |
| 31 | 1-1/4 | -20 | 32,5 | 1.28 | 43,9 | 1.73 | 46,7 | 1.84 | 125 | 1815 | 500 | 7260 | 420 | 16.5 | 1.20 | 1,79 |
| 38 | 1-1/2 | -24 | 38,7 | 1.52 | 51,1 | 2.01 | 54,5 | 2.14 | 90 | 1305 | 360 | 5220 | 500 | 19.7 | 1.42 | 2,12 |
| 51 | 2 | -32 | 51,1 | 2.01 | 62,9 | 2.47 | 66,7 | 2.63 | 80 | 1160 | 320 | 4640 | 630 | 24.8 | 1.88 | 2,79 |

DIN EN 857 2 SC

Compact hydraulic hose construction acc. to EN 857 2SC



GENERAL

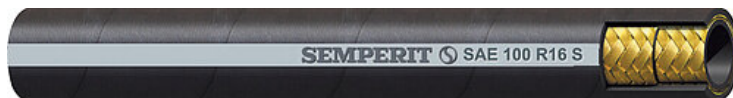
| | |
|--------------------------|---|
| Tube | Synthetic rubber, resistant against hydraulic fluids (HL, HLP, HLPD, HVLP, HFA, HFAS, HFB, HFC) |
| Reinforcement | Two braids of high tensile steel wire |
| Cover | Abrasion and ozone resistant synthetic rubber Note: various covers available |
| Temperature range | -40°C to 100°C / -40°F to +212°F [max 120°C / 248°F intermittent] |
| Standard branding | Embossed tape |

TECHNICAL DETAILS

| Nominal | | | Internal-Ø | | Braid-Ø | | External-Ø | | Work. pressure [max.] | | Min. burst pressure | | Bending radius [min.] | | Weight approx. | |
|---------|-------|------|------------|------|---------|------|------------|------|-----------------------|------|---------------------|-------|-----------------------|------|----------------|------|
| mm | inch | dash | mm | inch | mm | inch | mm | inch | bar | psi | bar | psi | mm | inch | lbs/ft | kg/m |
| 6 | 1/4 | -4 | 6.6 | 0.26 | 11.0 | 0.43 | 13.0 | 0.51 | 400 | 5800 | 1600 | 23200 | 75 | 3.0 | 0.17 | 0.25 |
| 8 | 5/16 | -5 | 8.3 | 0.33 | 12.9 | 0.51 | 14.7 | 0.58 | 350 | 5075 | 1400 | 20300 | 85 | 3.3 | 0.22 | 0.32 |
| 10 | 3/8 | -6 | 9.9 | 0.39 | 14.7 | 0.58 | 16.6 | 0.65 | 330 | 4785 | 1320 | 19140 | 90 | 3.5 | 0.24 | 0.35 |
| 12 | 1/2 | -8 | 13.0 | 0.51 | 18.0 | 0.71 | 20.0 | 0.79 | 275 | 3990 | 1100 | 15960 | 130 | 5.1 | 0.30 | 0.44 |
| 16 | 5/8 | -10 | 16.4 | 0.65 | 21.9 | 0.86 | 23.9 | 0.94 | 250 | 3625 | 1000 | 14500 | 170 | 6.7 | 0.41 | 0.61 |
| 19 | 3/4 | -12 | 19.5 | 0.77 | 25.7 | 1.01 | 27.6 | 1.08 | 215 | 3120 | 860 | 12480 | 200 | 7.9 | 0.52 | 0.77 |
| 25 | 1 | -16 | 26.0 | 1.02 | 32.9 | 1.30 | 35.6 | 1.40 | 165 | 2395 | 660 | 9580 | 250 | 9.8 | 0.77 | 1.15 |
| 38 | 1-1/2 | -24 | 38.7 | 1.52 | 47.6 | 1.87 | 50.4 | 1.98 | 100 | 1450 | 400 | 5800 | 255 | 10.0 | 1.32 | 1.97 |
| 51 | 2 | -32 | 51.3 | 2.02 | 60.4 | 2.38 | 63.6 | 2.50 | 90 | 1305 | 360 | 5220 | 400 | 15.7 | 1.67 | 2.49 |

SAE 100 R16-S

Compact hydraulic hose construction acc. to SAE 100 R16S



GENERAL

| | |
|--------------------------|---|
| Tube | Synthetic rubber, resistant against hydraulic fluids (HL, HLP, HLPD, HVLP, HFA, HFAS, HFB, HFC) |
| Reinforcement | Two braids of high tensile steel wire |
| Cover | Abrasion and ozone resistant synthetic rubber Note: various covers available |
| Temperature range | -40°C to 100°C / -40°F to +212°F [max 120°C / 248°F intermittent] |
| Standard branding | Embossed tape |

TECHNICAL DETAILS

| Nominal | | | Internal-Ø | | Braid-Ø | | External-Ø | | Work. pressure [max.] | | Min. burst pressure | | Bending radius [min.] | | Weight approx. | |
|---------|------|------|------------|------|---------|------|------------|------|-----------------------|------|---------------------|-------|-----------------------|------|----------------|------|
| mm | inch | dash | mm | inch | mm | inch | mm | inch | bar | psi | bar | psi | mm | inch | lbs/ft | kg/m |
| 6 | 1/4 | -4 | 6,6 | 0.26 | 11,7 | 0.46 | 13,7 | 0.54 | 400 | 5800 | 1600 | 23200 | 50 | 2.0 | 0.17 | 0,25 |
| 8 | 5/16 | -5 | 8,3 | 0.33 | 13,0 | 0.51 | 15,0 | 0.59 | 350 | 5075 | 1400 | 20300 | 55 | 2.2 | 0.18 | 0,27 |
| 10 | 3/8 | -6 | 9,9 | 0.39 | 15,1 | 0.59 | 17,0 | 0.67 | 330 | 4785 | 1320 | 19140 | 65 | 2.6 | 0.24 | 0,36 |
| 12 | 1/2 | -8 | 13,0 | 0.51 | 18,3 | 0.72 | 20,5 | 0.81 | 275 | 3990 | 1100 | 15960 | 90 | 3.5 | 0.31 | 0,46 |
| 16 | 5/8 | -10 | 16,4 | 0.65 | 21,9 | 0.86 | 23,8 | 0.94 | 250 | 3625 | 1000 | 14500 | 100 | 3.9 | 0.43 | 0,64 |
| 19 | 3/4 | -12 | 19,5 | 0.77 | 25,5 | 1.00 | 27,7 | 1.09 | 215 | 3120 | 860 | 12480 | 120 | 4.7 | 0.52 | 0,78 |
| 25 | 1 | -16 | 26,0 | 1.02 | 32,7 | 1.29 | 35,3 | 1.39 | 165 | 2395 | 660 | 9580 | 150 | 5.9 | 0.78 | 1,16 |

SAE 100 R19

Compact hydraulic hose construction acc. to SAE 100 R19, exceeds ISO 18752 AC



GENERAL

| | |
|--------------------------|---|
| Tube | Synthetic rubber, resistant against hydraulic fluids (HL, HLP, HLPD, HVLP, HFA, HFAS, HFB, HFC) |
| Reinforcement | Two braids of high tensile steel wire |
| Cover | Abrasion and ozone resistant synthetic rubber Note: various covers available |
| Temperature range | -40°C to 100°C / -40°F to +212°F [max 120°C / 248°F intermittent] |
| Standard branding | Embossed tape |

TECHNICAL DETAILS

| Nominal | | | Internal-Ø | | Braid-Ø | | External-Ø | | Work. pressure [max.] | | Min. burst pressure | | Bending radius [min.] | | Weight approx. | |
|---------|------|------|------------|------|---------|------|------------|------|-----------------------|------|---------------------|-------|-----------------------|------|----------------|------|
| mm | inch | dash | mm | inch | mm | inch | mm | inch | bar | psi | bar | psi | mm | inch | lbs/ft | kg/m |
| 6 | 1/4 | -4 | 6.6 | 0.26 | 11.9 | 0.47 | 13.9 | 0.55 | 280 | 4060 | 1120 | 16240 | 50 | 2.0 | 0.22 | 0.32 |
| 10 | 3/8 | -6 | 9.9 | 0.39 | 15.1 | 0.59 | 17.0 | 0.67 | 280 | 4060 | 1120 | 16240 | 65 | 2.6 | 0.26 | 0.39 |
| 12 | 1/2 | -8 | 13.0 | 0.51 | 18.3 | 0.72 | 20.5 | 0.81 | 280 | 4060 | 1120 | 16240 | 90 | 3.5 | 0.32 | 0.48 |
| 16 | 5/8 | -10 | 16.4 | 0.65 | 22.1 | 0.87 | 24.0 | 0.94 | 280 | 4060 | 1120 | 16240 | 100 | 3.9 | 0.46 | 0.68 |
| 19 | 3/4 | -12 | 19.5 | 0.77 | 26.0 | 1.02 | 27.6 | 1.09 | 280 | 4060 | 1120 | 16240 | 120 | 4.7 | 0.59 | 0.88 |

SEMPERPAC 1SNK

Compact hydraulic hose construction, higher pressure at reduced bend radii



GENERAL

| | |
|--------------------------|---|
| Tube | Synthetic rubber, resistant against hydraulic fluids (HL, HLP, HLPD, HVLP, HFA, HFAS, HFB, HFC) |
| Reinforcement | One braid of high tensile steel wire |
| Cover | Abrasion and ozone resistant synthetic rubber Note: various covers available |
| Temperature range | -40°C to 100°C / -40°F to +212°F [max 120°C / 248°F intermittent] |
| Standard branding | Embossed tape |
| Note | Impulse tested up to 700.000 cycles [tested acc. to ISO6803:2017] |

TECHNICAL DETAILS

| Nominal | | | Internal-Ø | | Braid-Ø | | External-Ø | | Work. pressure (max.) | | Min. burst pressure | | Bending radius (min.) | | Weight approx. | |
|---------|-------|------|------------|------|---------|------|------------|------|-----------------------|------|---------------------|-------|-----------------------|------|----------------|------|
| mm | inch | dash | mm | inch | mm | inch | mm | inch | bar | psi | bar | psi | mm | inch | lbs/ft | kg/m |
| 6 | 1/4 | -4 | 6,6 | 0.26 | 10,3 | 0.40 | 12,1 | 0.47 | 290 | 4205 | 1160 | 16820 | 40 | 1.6 | 0.12 | 0,18 |
| 8 | 5/16 | -5 | 8,3 | 0.33 | 11,7 | 0.46 | 13,7 | 0.54 | 250 | 3625 | 1000 | 14500 | 55 | 2.2 | 0.13 | 0,20 |
| 10 | 3/8 | -6 | 9,9 | 0.39 | 13,6 | 0.53 | 15,9 | 0.63 | 230 | 3335 | 920 | 13340 | 65 | 2.6 | 0.16 | 0,24 |
| 12 | 1/2 | -8 | 13,0 | 0.51 | 16,9 | 0.66 | 19,2 | 0.75 | 210 | 3045 | 840 | 12180 | 80 | 3.1 | 0.23 | 0,34 |
| 16 | 5/8 | -10 | 16,4 | 0.65 | 20,3 | 0.80 | 22,3 | 0.88 | 150 | 2175 | 600 | 8700 | 105 | 4.1 | 0.26 | 0,39 |
| 19 | 3/4 | -12 | 19,5 | 0.77 | 23,9 | 0.94 | 26,1 | 1.03 | 125 | 1815 | 500 | 7260 | 120 | 4.7 | 0.33 | 0,49 |
| 25 | 1 | -16 | 26,0 | 1.02 | 31,0 | 1.22 | 33,2 | 1.31 | 110 | 1595 | 440 | 6380 | 160 | 6.3 | 0.48 | 0,71 |
| 31 | 1-1/4 | -20 | 32,5 | 1.28 | 40,2 | 1.58 | 43,7 | 1.72 | 100 | 1450 | 400 | 5800 | 300 | 11.8 | 0.87 | 1,30 |

SEMPERRAIL 1SNK

Compact hydraulic hose construction meets EN 45545-2 (HL2-R23)



GENERAL

| | |
|--------------------------|---|
| Tube | Synthetic rubber, resistant against hydraulic fluids (HL, HLP, HLPD, HVLP, HFA, HFAS, HFB, HFC) |
| Reinforcement | One braid of high tensile steel wire |
| Cover | Abrasion and ozone resistant synthetic rubber |
| Temperature range | -40°C to 100°C / -40°F to +212°F (max 120°C / 248°F intermittent) |
| Standard branding | Embossed tape |

TECHNICAL DETAILS

| Nominal | | | Internal-Ø | | Braid-Ø | | External-Ø | | Work. pressure (max.) | | Min. burst pressure | | Bending radius [min.] | | Weight approx. | |
|---------|------|------|------------|------|---------|------|------------|------|-----------------------|------|---------------------|-------|-----------------------|------|----------------|------|
| mm | inch | dash | mm | inch | mm | inch | mm | inch | bar | psi | bar | psi | mm | inch | lbs/ft | kg/m |
| 6 | 1/4 | -4 | 6,6 | 0.26 | 10,3 | 0.40 | 12,1 | 0.47 | 290 | 4205 | 1160 | 16820 | 40 | 1.6 | 0.12 | 0,18 |
| 8 | 5/16 | -5 | 8,3 | 0.33 | 11,7 | 0.46 | 13,7 | 0.54 | 250 | 3625 | 1000 | 14500 | 55 | 2.2 | 0.13 | 0,20 |
| 10 | 3/8 | -6 | 9,9 | 0.39 | 13,6 | 0.53 | 15,9 | 0.63 | 230 | 3335 | 920 | 13340 | 65 | 2.6 | 0.16 | 0,24 |
| 12 | 1/2 | -8 | 13,0 | 0.51 | 16,9 | 0.66 | 19,2 | 0.75 | 200 | 2900 | 800 | 11600 | 80 | 3.1 | 0.23 | 0,34 |
| 16 | 5/8 | -10 | 16,4 | 0.65 | 20,3 | 0.80 | 22,3 | 0.88 | 150 | 2175 | 600 | 8700 | 105 | 4.1 | 0.26 | 0,39 |
| 19 | 3/4 | -12 | 19,5 | 0.77 | 23,9 | 0.94 | 26,1 | 1.03 | 125 | 1815 | 500 | 7260 | 120 | 4.7 | 0.33 | 0,49 |
| 25 | 1 | -16 | 26,0 | 1.02 | 31,0 | 1.22 | 33,2 | 1.31 | 110 | 1595 | 440 | 6380 | 160 | 6.3 | 0.48 | 0,71 |

SEMPERPAC 2SNK

Compact hydraulic hose construction exceeds DIN EN 857 2SC, SAE 100 R16S and SAE 100 R19 [DN6 - DN19]



Higher pressure at reduced bend radii

GENERAL

| | |
|--------------------------|--|
| Tube | Synthetic rubber, resistant against hydraulic fluids (HL, HLP, HLPD, HVLP, HFA, HFAS, HFB, HFC) |
| Reinforcement | Two braids of high tensile steel wire |
| Cover | Abrasion and ozone resistant synthetic rubber Note: various covers available |
| Temperature range | -40°C to 100°C / -40°F to +212°F [max 120°C / 248°F intermittent] |
| Standard branding | Embossed tape |
| Note | Impulse tested up to 1 million cycles [tested acc. to ISO6803:2017 / DN31 tested up to 200.000 cycles] |

TECHNICAL DETAILS

| Nominal | | | Internal-Ø | | Braid-Ø | | External-Ø | | Work. pressure [max.] | | Min. burst pressure | | Bending radius [min.] | | Weight approx. | |
|---------|-------|------|------------|------|---------|------|------------|------|-----------------------|------|---------------------|-------|-----------------------|------|----------------|------|
| mm | inch | dash | mm | inch | mm | inch | mm | inch | bar | psi | bar | psi | mm | inch | lbs/ft | kg/m |
| 6 | 1/4 | -4 | 6.6 | 0.26 | 11.5 | 0.45 | 13.4 | 0.53 | 450 | 6525 | 1800 | 26100 | 45 | 1.8 | 0.18 | 0.27 |
| 8 | 5/16 | -5 | 8.3 | 0.33 | 13.0 | 0.51 | 15.0 | 0.59 | 420 | 6090 | 1680 | 24360 | 55 | 2.2 | 0.22 | 0.32 |
| 10 | 3/8 | -6 | 9.9 | 0.39 | 14.7 | 0.58 | 16.8 | 0.66 | 385 | 5585 | 1540 | 22340 | 65 | 2.6 | 0.26 | 0.38 |
| 12 | 1/2 | -8 | 13.0 | 0.51 | 18.4 | 0.72 | 20.5 | 0.81 | 350 | 5075 | 1400 | 20300 | 90 | 3.5 | 0.35 | 0.52 |
| 16 | 5/8 | -10 | 16.4 | 0.65 | 21.9 | 0.86 | 23.7 | 0.93 | 290 | 4205 | 1160 | 16820 | 100 | 3.9 | 0.41 | 0.61 |
| 19 | 3/4 | -12 | 19.5 | 0.77 | 26.0 | 1.02 | 27.7 | 1.09 | 280 | 4060 | 1120 | 16240 | 120 | 4.7 | 0.53 | 0.79 |
| 25 | 1 | -16 | 26.0 | 1.02 | 32.9 | 1.30 | 35.6 | 1.40 | 200 | 2900 | 800 | 11600 | 150 | 5.9 | 0.77 | 1.15 |
| 31 | 1-1/4 | -20 | 32.5 | 1.28 | 40.5 | 1.59 | 43.5 | 1.71 | 175 | 2540 | 700 | 10160 | 300 | 11.8 | 1.06 | 1.57 |

SEMPERRAIL 2SNK

Compact hydraulic hose construction meets EN 45545-2 (HL2-R23)



GENERAL

| | |
|--------------------------|---|
| Tube | Synthetic rubber, resistant against hydraulic fluids (HL, HLP, HLPD, HVLP, HFA, HFAS, HFB, HFC) |
| Reinforcement | Two braids of high tensile steel wire |
| Cover | Abrasion and ozone resistant synthetic rubber |
| Temperature range | -40°C to 100°C / -40°F to +212°F (max 120°C / 248°F intermittent) |
| Standard branding | Embossed tape |

TECHNICAL DETAILS

| Nominal | | | Internal-Ø | | Braid-Ø | | External-Ø | | Work. pressure [max.] | | Min. burst pressure | | Bending radius [min.] | | Weight approx. | |
|---------|------|------|------------|------|---------|------|------------|------|-----------------------|------|---------------------|-------|-----------------------|------|----------------|------|
| mm | inch | dash | mm | inch | mm | inch | mm | inch | bar | psi | bar | psi | mm | inch | lbs/ft | kg/m |
| 6 | 1/4 | -4 | 6,6 | 0.26 | 11,5 | 0.45 | 13,4 | 0.53 | 450 | 6525 | 1800 | 26100 | 45 | 1.8 | 0.18 | 0,27 |
| 8 | 5/16 | -5 | 8,3 | 0.33 | 13,0 | 0.51 | 15,0 | 0.59 | 420 | 6090 | 1680 | 24360 | 60 | 2.4 | 0.22 | 0,32 |
| 10 | 3/8 | -6 | 9,9 | 0.39 | 14,7 | 0.58 | 16,8 | 0.66 | 385 | 5585 | 1540 | 22340 | 70 | 2.8 | 0.26 | 0,38 |
| 12 | 1/2 | -8 | 13,0 | 0.51 | 18,4 | 0.72 | 20,5 | 0.81 | 350 | 5075 | 1400 | 20300 | 90 | 3.5 | 0.35 | 0,52 |
| 16 | 5/8 | -10 | 16,4 | 0.65 | 21,9 | 0.86 | 23,7 | 0.93 | 290 | 4205 | 1160 | 16820 | 130 | 5.1 | 0.41 | 0,61 |
| 19 | 3/4 | -12 | 19,5 | 0.77 | 25,8 | 1.02 | 27,7 | 1.09 | 280 | 4060 | 1120 | 16240 | 160 | 6.3 | 0.53 | 0,79 |
| 25 | 1 | -16 | 26,0 | 1.02 | 32,9 | 1.30 | 35,6 | 1.40 | 200 | 2900 | 800 | 11600 | 210 | 8.3 | 0.77 | 1,15 |

SEMPERSHIELD SSC

Compact hydraulic hose construction with SEMPERSHIELD cover exceeds EN 857 2SC



GENERAL

| | |
|--------------------------|---|
| Tube | Synthetic rubber, resistant against hydraulic fluids (HL, HLP, HLPD, HVLP, HFA, HFAS, HFB, HFC) |
| Reinforcement | Two braids of high tensile steel wire |
| Cover | Double layer construction – rubber cover with UHMPE foil – MSHA approved Outstanding abrasion and ozone resistance |
| Temperature range | -40°C to 100°C / -40°F to +212°F [max 120°C / 248°F intermittent] |
| Standard branding | Mylar tape |

TECHNICAL DETAILS

| Nominal | | | Internal-Ø | | Braid-Ø | | External-Ø | | Work. pressure (max.) | | Min. burst pressure | | Bending radius (min.) | | Weight approx. | |
|---------|------|------|------------|------|---------|------|------------|------|-----------------------|------|---------------------|-------|-----------------------|------|----------------|------|
| mm | inch | dash | mm | inch | mm | inch | mm | inch | bar | psi | bar | psi | mm | inch | lbs/ft | kg/m |
| 6 | 1/4 | -4 | 6,6 | 0.26 | 11,0 | 0.43 | 13,0 | 0.51 | 400 | 5800 | 1600 | 23200 | 75 | 3.0 | 0.17 | 0,26 |
| 8 | 5/16 | -5 | 8,3 | 0.33 | 12,9 | 0.51 | 14,6 | 0.57 | 375 | 5440 | 1500 | 21760 | 85 | 3.3 | 0.22 | 0,32 |
| 10 | 3/8 | -6 | 9,9 | 0.39 | 14,7 | 0.58 | 17,1 | 0.67 | 350 | 5075 | 1400 | 20300 | 90 | 3.5 | 0.25 | 0,37 |
| 12 | 1/2 | -8 | 13,0 | 0.51 | 18,0 | 0.71 | 20,0 | 0.79 | 300 | 4350 | 1200 | 17400 | 130 | 5.1 | 0.30 | 0,45 |
| 16 | 5/8 | -10 | 16,4 | 0.65 | 21,9 | 0.86 | 24,0 | 0.94 | 275 | 3990 | 1100 | 15960 | 170 | 6.7 | 0.46 | 0,68 |
| 19 | 3/4 | -12 | 19,5 | 0.77 | 25,7 | 1.01 | 27,5 | 1.08 | 235 | 3410 | 940 | 13640 | 200 | 7.9 | 0.54 | 0,81 |
| 25 | 1 | -16 | 26,0 | 1.02 | 32,9 | 1.30 | 35,8 | 1.41 | 185 | 2685 | 740 | 10740 | 250 | 9.8 | 0.80 | 1,19 |

DIN EN 853 1 SN EHT

Wire braid hydraulic hose exceeds EN 853 1SN, with hot oil resistant hose liner



GENERAL

| | |
|--------------------------|---|
| Tube | Synthetic rubber, resistant against hot oil, hydraulic fluids (HL, HLP, HLPD, HVLP, HFA, HFAS, HFB, HFC), mineral and synthetic oils, glycols, polyglycols and aqueous oil emulsions (up to 100°C / 212°F) |
| Reinforcement | One braid of high tensile steel wire |
| Cover | Heat, abrasion and ozone resistant synthetic rubber |
| Temperature range | -40°C to 135°C / -40°F to +275°F (up to 150°C / 300°F peak temperatures) |
| Standard branding | White ink-jet |

TECHNICAL DETAILS

| Nominal | | | Internal-Ø | | Braid-Ø | | External-Ø | | Work. pressure [max.] | | Min. burst pressure | | Bending radius [min.] | | Weight approx. | |
|---------|-------|------|------------|------|---------|------|------------|------|-----------------------|------|---------------------|-------|-----------------------|------|----------------|------|
| mm | inch | dash | mm | inch | mm | inch | mm | inch | bar | psi | bar | psi | mm | inch | lbs/ft | kg/m |
| 6 | 1/4 | -4 | 6,6 | 0.26 | 11,1 | 0.44 | 13,5 | 0.53 | 225 | 3265 | 900 | 13060 | 100 | 3.9 | 0.15 | 0,23 |
| 8 | 5/16 | -5 | 8,3 | 0,33 | 12,7 | 0.50 | 15,1 | 0.59 | 215 | 3120 | 860 | 12480 | 115 | 4.5 | 0.18 | 0,27 |
| 10 | 3/8 | -6 | 9,9 | 0.39 | 15,1 | 0.59 | 17,5 | 0.69 | 180 | 2610 | 720 | 10440 | 125 | 4.9 | 0.24 | 0,36 |
| 12 | 1/2 | -8 | 13,0 | 0.51 | 18,3 | 0.72 | 20,6 | 0.81 | 160 | 2320 | 640 | 9280 | 180 | 7.1 | 0.30 | 0,44 |
| 16 | 5/8 | -10 | 16,4 | 0.65 | 21,4 | 0.84 | 23,5 | 0.93 | 130 | 1885 | 520 | 7540 | 200 | 7.9 | 0.34 | 0,50 |
| 19 | 3/4 | -12 | 19,5 | 0.77 | 25,4 | 1.00 | 27,8 | 1.09 | 105 | 1525 | 420 | 6100 | 240 | 9.4 | 0.45 | 0,67 |
| 25 | 1 | -16 | 26,0 | 1.02 | 33,3 | 1.31 | 35,6 | 1.40 | 88 | 1275 | 352 | 5100 | 300 | 11.8 | 0.63 | 0,93 |
| 31 | 1-1/4 | -20 | 32,5 | 1.28 | 40,3 | 1.58 | 42,2 | 1.66 | 63 | 915 | 252 | 3660 | 420 | 16.5 | 0.77 | 1,14 |
| 38 | 1-1/2 | -24 | 38,7 | 1.52 | 47,3 | 1.86 | 51,1 | 2.01 | 50 | 725 | 200 | 2900 | 500 | 19.7 | 1.21 | 1,80 |
| 51 | 2 | -32 | 51,1 | 2.01 | 60,5 | 2.38 | 63,3 | 2.49 | 40 | 580 | 160 | 2320 | 630 | 24.8 | 1.35 | 2,01 |

SEMPERCOLD 1SN

Wire braid hydraulic hose meets EN 853 1SN, SAE 100R1 and ISO 1436 1SN with temperature range down to -50°C / -58°F



GENERAL

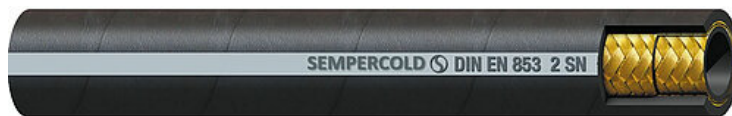
| | |
|--------------------------|---|
| Tube | Synthetic rubber, resistant against hydraulic fluids (HL, HLP, HLPD, HVLP, HFA, HFAS, HFB, HFC) |
| Reinforcement | One braid of high tensile steel wire |
| Cover | Abrasion and ozone resistant synthetic rubber |
| Temperature range | -50°C to 100°C / -58°F to +212°F |
| Standard branding | Embossed tape |

TECHNICAL DETAILS

| Nominal | | | Internal-Ø | | Braid-Ø | | External-Ø | | Work. pressure [max.] | | Min. burst pressure | | Bending radius [min.] | | Weight approx. | |
|---------|-------|------|------------|------|---------|------|------------|------|-----------------------|------|---------------------|-------|-----------------------|------|----------------|------|
| mm | inch | dash | mm | inch | mm | inch | mm | inch | bar | psi | bar | psi | mm | inch | lbs/ft | kg/m |
| 6 | 1/4 | -4 | 6,6 | 0.26 | 10,8 | 0.43 | 12,9 | 0.51 | 225 | 3265 | 900 | 13060 | 100 | 3.9 | 0.12 | 0,18 |
| 8 | 5/16 | -5 | 8,3 | 0.32 | 12,5 | 0.49 | 14,7 | 0.58 | 215 | 3120 | 860 | 12480 | 115 | 4.5 | 0.15 | 0,22 |
| 10 | 3/8 | -6 | 9,9 | 0.39 | 14,8 | 0.58 | 16,7 | 0.66 | 180 | 2610 | 720 | 10440 | 125 | 4.9 | 0.19 | 0,29 |
| 12 | 1/2 | -8 | 13,0 | 0.51 | 17,9 | 0.70 | 19,9 | 0.78 | 160 | 2320 | 640 | 9280 | 180 | 7.1 | 0.24 | 0,36 |
| 16 | 5/8 | -10 | 16,4 | 0.65 | 21,0 | 0.83 | 23,2 | 0.91 | 130 | 1885 | 520 | 7540 | 200 | 7.9 | 0.28 | 0,42 |
| 19 | 3/4 | -12 | 19,5 | 0.77 | 25,0 | 0.98 | 27,1 | 1.07 | 105 | 1525 | 420 | 6100 | 240 | 9.4 | 0.36 | 0,53 |
| 25 | 1 | -16 | 26,0 | 1.02 | 32,9 | 1.30 | 35,1 | 1.38 | 88 | 1275 | 352 | 5100 | 300 | 11.8 | 0.55 | 0,82 |
| 31 | 1-1/4 | -20 | 32,5 | 1.28 | 39,9 | 1.57 | 42,5 | 1.67 | 63 | 915 | 252 | 3660 | 420 | 16.5 | 0.70 | 1,04 |

SEMPERCOLD 2SN

Wire braid hydraulic hose meets EN 853 2SN, SAE 100R2 and ISO 1436 2SN
With temperature range down to -50°C / -58°F



GENERAL

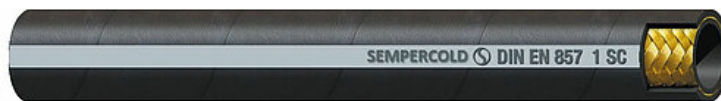
| | |
|--------------------------|---|
| Tube | Synthetic rubber, resistant against hydraulic fluids (HL, HLP, HLPD, HVLP, HFA, HFAS, HFB, HFC) |
| Reinforcement | Two braids of high tensile steel wire |
| Cover | Abrasion and ozone resistant synthetic rubber |
| Temperature range | -50°C to 100°C / -58°F to +212°F |
| Standard branding | Embossed tape |

TECHNICAL DETAILS

| Nominal | | | Internal-Ø | | Braid-Ø | | External-Ø | | Work. pressure [max.] | | Min. burst pressure | | Bending radius [min.] | | Weight approx. | |
|---------|-------|------|------------|------|---------|------|------------|------|-----------------------|------|---------------------|-------|-----------------------|------|----------------|------|
| mm | inch | dash | mm | inch | mm | inch | mm | inch | bar | psi | bar | psi | mm | inch | lbs/ft | kg/m |
| 6 | 1/4 | -4 | 6,6 | 0.26 | 12,4 | 0.49 | 14,3 | 0.56 | 400 | 5800 | 1600 | 23200 | 100 | 3.9 | 0.21 | 0,31 |
| 8 | 5/16 | -5 | 8,3 | 0.33 | 14,0 | 0.55 | 16,0 | 0.63 | 350 | 5075 | 1400 | 20300 | 115 | 4.5 | 0.25 | 0,37 |
| 10 | 3/8 | -6 | 9,9 | 0.39 | 16,4 | 0.65 | 18,4 | 0.72 | 330 | 4785 | 1320 | 19140 | 130 | 5.1 | 0.30 | 0,44 |
| 12 | 1/2 | -8 | 13,0 | 0.51 | 19,4 | 0.76 | 21,3 | 0.84 | 275 | 4000 | 1100 | 16000 | 180 | 7.1 | 0.36 | 0,53 |
| 16 | 5/8 | -10 | 16,4 | 0.65 | 22,6 | 0.89 | 24,6 | 0.97 | 250 | 3625 | 1000 | 14500 | 200 | 7.9 | 0.45 | 0,67 |
| 19 | 3/4 | -12 | 19,5 | 0.77 | 26,6 | 1.05 | 28,6 | 1.13 | 215 | 3120 | 860 | 12480 | 240 | 9.4 | 0.56 | 0,84 |
| 25 | 1 | -16 | 26,0 | 1.02 | 34,5 | 1.36 | 37,1 | 1.46 | 165 | 2395 | 660 | 9580 | 300 | 11.8 | 0.83 | 1,23 |
| 31 | 1-1/4 | -20 | 32,5 | 1.28 | 43,9 | 1.73 | 46,7 | 1.84 | 125 | 1815 | 500 | 7260 | 420 | 16.5 | 1.20 | 1,79 |

SEMPERCOLD 1 SC

Compact hydraulic hose construction acc. to EN 857 1SC
with temperature range down to -50°C / -58°F



GENERAL

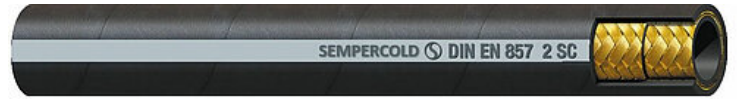
| | |
|--------------------------|---|
| Tube | Synthetic rubber, resistant against hydraulic fluids (HL, HLP, HLPD, HVLP, HFA, HFAS, HFB, HFC) |
| Reinforcement | One braid of high tensile steel wire |
| Cover | Abrasion and ozone resistant synthetic rubber |
| Temperature range | -50°C to 100°C / -58°F to +212°F |
| Standard branding | Embossed tape |

TECHNICAL DETAILS

| Nominal | | | Internal-Ø | | Braid-Ø | | External-Ø | | Work. pressure [max.] | | Min. burst pressure | | Bending radius [min.] | | Weight approx. | |
|---------|------|------|------------|------|---------|------|------------|------|-----------------------|------|---------------------|-------|-----------------------|------|----------------|------|
| mm | inch | dash | mm | inch | mm | inch | mm | inch | bar | psi | bar | psi | mm | inch | lbs/ft | kg/m |
| 6 | 1/4 | -4 | 6,6 | 0.26 | 10,1 | 0.40 | 11,9 | 0.47 | 225 | 3265 | 900 | 13060 | 75 | 3.0 | 0.11 | 0,16 |
| 8 | 5/16 | -5 | 8,3 | 0.33 | 11,7 | 0.46 | 13,7 | 0.54 | 215 | 3120 | 860 | 12480 | 85 | 3.3 | 0.13 | 0,20 |
| 10 | 3/8 | -6 | 9,9 | 0.39 | 13,6 | 0.53 | 15,7 | 0.62 | 180 | 2610 | 720 | 10440 | 90 | 3.5 | 0.16 | 0,24 |
| 12 | 1/2 | -8 | 13,0 | 0.51 | 16,6 | 0.65 | 19,4 | 0.76 | 160 | 2320 | 640 | 9280 | 130 | 5.1 | 0.22 | 0,33 |
| 16 | 5/8 | -10 | 16,4 | 0.65 | 20,3 | 0.80 | 22,3 | 0.88 | 130 | 1885 | 520 | 7540 | 150 | 5.9 | 0.26 | 0,39 |
| 19 | 3/4 | -12 | 19,5 | 0.77 | 24,0 | 0.94 | 26,0 | 1.02 | 105 | 1525 | 420 | 6100 | 180 | 7.1 | 0.33 | 0,49 |
| 25 | 1 | -16 | 26,0 | 1.02 | 31,0 | 1.22 | 33,2 | 1.31 | 88 | 1275 | 352 | 5100 | 230 | 9.1 | 0.48 | 0,71 |

SEMPERCOLD 2SC

Compact hydraulic hose construction acc. to EN 857 2SC
With temperature range down to -50°C / -58°F



GENERAL

| | |
|--------------------------|---|
| Tube | Synthetic rubber, resistant against hydraulic fluids (HL, HLP, HLPD, HVLP, HFA, HFAS, HFB, HFC) |
| Reinforcement | Two braids of high tensile steel wire |
| Cover | Abrasion and ozone resistant synthetic rubber |
| Temperature range | -50°C to 100°C / -58°F to +212°F |
| Standard branding | Embossed tape |

TECHNICAL DETAILS

| Nominal | | | Internal-Ø | | Braid-Ø | | External-Ø | | Work. pressure (max.) | | Min. burst pressure | | Bending radius [min.] | | Weight approx. | |
|---------|------|------|------------|------|---------|------|------------|------|-----------------------|------|---------------------|-------|-----------------------|------|----------------|------|
| mm | inch | dash | mm | inch | mm | inch | mm | inch | bar | psi | bar | psi | mm | inch | lbs/ft | kg/m |
| 6 | 1/4 | -4 | 6,6 | 0.26 | 11,0 | 0.43 | 13,0 | 0.51 | 400 | 5800 | 1600 | 23200 | 75 | 3.0 | 0.17 | 0,25 |
| 8 | 5/16 | -5 | 8,3 | 0.33 | 12,9 | 0.51 | 14,7 | 0.58 | 350 | 5075 | 1400 | 20300 | 85 | 3.3 | 0.22 | 0,32 |
| 10 | 3/8 | -6 | 9,9 | 0.39 | 14,7 | 0.58 | 16,6 | 0.65 | 330 | 4785 | 1320 | 19140 | 90 | 3.5 | 0.24 | 0,35 |
| 12 | 1/2 | -8 | 13,0 | 0.51 | 18,0 | 0.71 | 20,0 | 0.79 | 275 | 3990 | 1100 | 15960 | 130 | 5.1 | 0.30 | 0,44 |
| 16 | 5/8 | -10 | 16,4 | 0.65 | 21,9 | 0.86 | 23,9 | 0.94 | 250 | 3625 | 1000 | 14500 | 170 | 6.7 | 0.41 | 0,61 |
| 19 | 3/4 | -12 | 19,5 | 0.77 | 25,7 | 1.01 | 27,6 | 1.08 | 215 | 3120 | 860 | 12480 | 200 | 7.9 | 0.52 | 0,77 |
| 25 | 1 | -16 | 26,0 | 1.02 | 32,9 | 1.30 | 35,6 | 1.40 | 165 | 2395 | 660 | 9580 | 250 | 9.8 | 0.77 | 1,15 |

SEMPERCOLD 2SN-K

Compact hydraulic hose construction exceeds DIN EN 857 2SC and SAE 100 R16S
Higher pressure at reduced bend radii; with temperature range down to -50°C / -58°F



GENERAL

| | |
|--------------------------|--|
| Tube | Synthetic rubber, resistant against hydraulic fluids (HL, HLP, HLPD, HVLP, HFA, HFAS, HFB, HFC) |
| Reinforcement | Two braids of high tensile steel wire |
| Cover | Abrasion and ozone resistant synthetic rubber |
| Temperature range | -50°C to 100°C / -58°F to +212°F |
| Standard branding | Embossed tape |
| Note | Impulse tested up to 1 million cycles (tested acc. to ISO6803:2017 / DN31 tested up to 200.000 cycles) |

TECHNICAL DETAILS

| Nominal | | | Internal-Ø | | Braid-Ø | | External-Ø | | Work. pressure (max.) | | Min. burst pressure | | Bending radius (min.) | | Weight approx. | |
|---------|-------|------|------------|------|---------|------|------------|------|-----------------------|------|---------------------|-------|-----------------------|------|----------------|------|
| mm | inch | dash | mm | inch | mm | inch | mm | inch | bar | psi | bar | psi | mm | inch | lbs/ft | kg/m |
| 6 | 1/4 | -4 | 6,6 | 0.26 | 11,5 | 0.45 | 13,4 | 0.53 | 450 | 6525 | 1800 | 26100 | 45 | 1.8 | 0.18 | 0,27 |
| 8 | 5/16 | -5 | 8,3 | 0.33 | 13,0 | 0.51 | 15,0 | 0.59 | 420 | 6090 | 1680 | 24360 | 60 | 2.4 | 0.22 | 0,32 |
| 10 | 3/8 | -6 | 9,9 | 0.39 | 14,7 | 0.58 | 16,8 | 0.66 | 385 | 5585 | 1540 | 22340 | 70 | 2.8 | 0.26 | 0,38 |
| 12 | 1/2 | -8 | 13,0 | 0.51 | 18,4 | 0.72 | 20,5 | 0.81 | 350 | 5075 | 1400 | 20300 | 90 | 3.5 | 0.35 | 0,52 |
| 16 | 5/8 | -10 | 16,4 | 0.65 | 21,9 | 0.86 | 23,7 | 0.93 | 290 | 4205 | 1160 | 16820 | 130 | 5.1 | 0.41 | 0,61 |
| 19 | 3/4 | -12 | 19,5 | 0.77 | 26,0 | 1.02 | 27,7 | 1.09 | 280 | 4060 | 1120 | 16240 | 160 | 6.3 | 0.53 | 0,79 |
| 25 | 1 | -16 | 26,0 | 1.02 | 32,9 | 1.30 | 35,6 | 1.40 | 200 | 2900 | 800 | 11600 | 210 | 8.3 | 0.77 | 1,15 |
| 31 | 1-1/4 | -20 | 32,5 | 1.28 | 40,5 | 1.59 | 43,5 | 1.71 | 175 | 2540 | 700 | 10160 | 300 | 11.8 | 1.06 | 1,57 |

SEMPERFORK 1SC

1-wire compact hydraulic hose construction for fork lift applications



Hose construction designed to maintain pre-tension in application

GENERAL

| | |
|--------------------------|---|
| Tube | Synthetic rubber, resistant against hydraulic fluids (HL, HLP, HLPD, HVLP, HFA, HFAS, HFB, HFC) |
| Reinforcement | One braid of high tensile steel wire |
| Cover | High abrasion and ozone resistant SemperRock cover |
| Temperature range | -40°C to 100°C / -40°F to +212°F (max 120°C / 248°F intermittent) |
| Standard branding | White ink-jet (ensure trouble-free rolling behavior over guiding rollers) |

TECHNICAL DETAILS

| Nominal | | | Internal-Ø | | Braid-Ø | | External-Ø | | Work. pressure (max.) | | Min. burst pressure | | Bending radius (min.) | | Weight approx. | |
|---------|------|------|------------|------|---------|------|------------|------|-----------------------|------|---------------------|-------|-----------------------|------|----------------|------|
| mm | inch | dash | mm | inch | mm | inch | mm | inch | bar | psi | bar | psi | mm | inch | lbs/ft | kg/m |
| 10 | 3/8 | -6 | 9,9 | 0.39 | 13,5 | 0.53 | 15,9 | 0.63 | 225 | 3265 | 900 | 13060 | 90 | 3.5 | 0.11 | 0,16 |

SEMPERPILOT

Hydraulic hose with extreme compact construction



GENERAL

| | |
|--------------------------|---|
| Tube | Synthetic rubber, resistant against hydraulic fluids (HL, HLP, HLPD, HVLP, HFA, HFAS, HFB, HFC) |
| Reinforcement | One braid of high tensile steel wire |
| Cover | Abrasion and ozone resistant synthetic rubber Note: MSHA cover available |
| Temperature range | -40°C to 100°C / -40°F to +212°F [max 120°C / 248°F intermittent] |
| Standard branding | White ink-jet |

TECHNICAL DETAILS

| Nominal | | | Internal-Ø | | Braid-Ø | | External-Ø | | Work. pressure (max.) | | Min. burst pressure | | Bending radius (min.) | | Weight approx. | |
|---------|------|------|------------|------|---------|------|------------|------|-----------------------|------|---------------------|------|-----------------------|------|----------------|------|
| mm | inch | dash | mm | inch | mm | inch | mm | inch | bar | psi | bar | psi | mm | inch | lbs/ft | kg/m |
| 6 | 1/4 | -4 | 6,6 | 0.26 | 9,9 | 0.39 | 11,5 | 0.45 | 125 | 1815 | 500 | 7260 | 30 | 1.2 | 0.09 | 0,14 |
| 8 | 5/16 | -5 | 8,3 | 0,33 | 11,6 | 0.46 | 13,6 | 0.53 | 125 | 1815 | 500 | 7260 | 40 | 1.6 | 0.15 | 0,22 |
| 10 | 3/8 | -6 | 9,9 | 0.39 | 12,9 | 0.51 | 14,4 | 0.57 | 125 | 1815 | 500 | 7260 | 50 | 2.0 | 0.18 | 0,27 |
| 12 | 1/2 | -8 | 13,0 | 0.51 | 16,3 | 0.64 | 19,4 | 0.76 | 125 | 1815 | 500 | 7260 | 60 | 2.4 | 0.26 | 0,39 |

AGROFLEX

Hydraulic hose isobaric compact construction.
Flexible hose for the requirements of agricultural applications



GENERAL

| | |
|--------------------------|---|
| Tube | Synthetic rubber, resistant against hydraulic fluids (HL, HLP, HLPD, HVLP, HFA, HFAS, HFB, HFC) |
| Reinforcement | One braid of high tensile steel wire |
| Cover | Abrasion and ozone resistant synthetic rubber Note: various covers available |
| Temperature range | -40°C to 100°C / -40°F to +212°F (max 120°C / 248°F intermittent) |
| Standard branding | White ink-jet |

TECHNICAL DETAILS

| Nominal | | | Internal-Ø | | Braid-Ø | | External-Ø | | Work. pressure (max.) | | Min. burst pressure | | Bending radius (min.) | | Weight approx. | |
|---------|------|------|------------|------|---------|------|------------|------|-----------------------|------|---------------------|-------|-----------------------|------|----------------|------|
| mm | inch | dash | mm | inch | mm | inch | mm | inch | bar | psi | bar | psi | mm | inch | lbs/ft | kg/m |
| 6 | 1/4 | -4 | 6,6 | 0.26 | 10,1 | 0.40 | 12,0 | 0.47 | 210 | 3045 | 840 | 12180 | 45 | 1.8 | 0.11 | 0,17 |
| 8 | 5/16 | -5 | 8,3 | 0.33 | 11,7 | 0.46 | 13,7 | 0.54 | 210 | 3045 | 840 | 12180 | 50 | 2.0 | 0.15 | 0,22 |
| 10 | 3/8 | -6 | 9,9 | 0.39 | 13,8 | 0.54 | 15,7 | 0.62 | 210 | 3045 | 840 | 12180 | 60 | 2.4 | 0.18 | 0,27 |
| 12 | 1/2 | -8 | 13,0 | 0.51 | 17,6 | 0.69 | 19,4 | 0.76 | 210 | 3045 | 840 | 12180 | 85 | 3.3 | 0.26 | 0,39 |

JACKHOSE COMPACT

Hydraulic hose for jacking applications



GENERAL

| | |
|--------------------------|---|
| Tube | Synthetic rubber, resistant against hydraulic fluids (HL, HLP, HLPD, HVLP, HFA, HFAS, HFB, HFC) |
| Reinforcement | Two braids of high tensile steel wire |
| Cover | Abrasion and ozone resistant synthetic rubber |
| Temperature range | -40°C to 100°C / -40°F to +212°F [max 120°C / 248°F intermittent] |
| Standard branding | Embossed tape |

TECHNICAL DETAILS

| Nominal | | | Internal-Ø | | Braid-Ø | | External-Ø | | Work. pressure [max.] | | Min. burst pressure | | Bending radius [min.] | | Weight approx. | |
|---------|------|------|------------|------|---------|------|------------|------|-----------------------|-------|---------------------|-------|-----------------------|------|----------------|------|
| mm | inch | dash | mm | inch | mm | inch | mm | inch | bar | psi | bar | psi | mm | inch | lbs/ft | kg/m |
| 6 | 1/4 | -4 | 6,7 | 0.26 | 11,4 | 0.45 | 13,2 | 0.52 | 700 | 10155 | 2800 | 40620 | 75 | 3.0 | 0.12 | 0,18 |
| 10 | 3/8 | -6 | 9,9 | 0.39 | 14,9 | 0.59 | 17,0 | 0.67 | 700 | 10155 | 2800 | 40620 | 90 | 3.5 | 0.26 | 0,38 |

SUPERPAC SPC 2

Compact hydraulic hose construction with enhanced technical performance



GENERAL

| | |
|--------------------------|---|
| Tube | Synthetic rubber, resistant against hydraulic fluids (HL, HLP, HLPD, HVLP, HFA, HFAS, HFB, HFC) |
| Reinforcement | Two braids of high tensile steel wire |
| Cover | Abrasion and ozone resistant synthetic rubber Note: various covers available |
| Temperature range | -40°C to 100°C / -40°F to +212°F (max 120°C / 248°F intermittent) |
| Standard branding | Embossed tape |
| Note | Impulse tested up to 400.000 cycles (tested acc. to IS6803:2017) |

TECHNICAL DETAILS

| Nominal | | | Internal-Ø | | Braid-Ø | | External-Ø | | Work. pressure (max.) | | Min. burst pressure | | Bending radius (min.) | | Weight approx. | |
|---------|------|------|------------|------|---------|------|------------|------|-----------------------|------|---------------------|-------|-----------------------|------|----------------|------|
| mm | inch | dash | mm | inch | mm | inch | mm | inch | bar | psi | bar | psi | mm | inch | lbs/ft | kg/m |
| 12 | 1/2 | -8 | 13,0 | 0.51 | 19,3 | 0.76 | 21,4 | 0.84 | 380 | 5510 | 1520 | 22040 | 130 | 5.1 | 0.40 | 0.59 |
| 16 | 5/8 | -10 | 16,4 | 0.65 | 22,4 | 0.88 | 24,7 | 0.97 | 350 | 5075 | 1400 | 20300 | 180 | 7.1 | 0.48 | 0,72 |
| 25 | 1 | -16 | 26,0 | 1.02 | 33,8 | 1.33 | 35,8 | 1.41 | 230 | 3335 | 920 | 13340 | 240 | 9.4 | 0.85 | 1,27 |

Flexline 1000

Hydraulic hose with compact construction exceeds performance ISO 18752 AC



GENERAL

| | |
|--------------------------|---|
| Tube | Synthetic rubber, resistant against hydraulic fluids (HL, HLP, HLPD, HVLP, HFA, HFAS, HFB, HFC) |
| Reinforcement | One braid of high tensile steel wire |
| Cover | Abrasion and ozone resistant synthetic rubber Note: various covers available |
| Temperature range | -40°C to 100°C / -40°F to +212°F [max 120°C / 248°F intermittent] |
| Standard branding | Embossed |

TECHNICAL DETAILS

| Nominal | | | Internal-Ø | | Braid-Ø | | External-Ø | | Work. pressure [max.] | | Min. burst pressure | | Bending radius [min.] | | Weight approx. | |
|---------|-------|------|------------|------|---------|------|------------|------|-----------------------|------|---------------------|------|-----------------------|------|----------------|------|
| mm | inch | dash | mm | inch | mm | inch | mm | inch | bar | psi | bar | psi | mm | inch | lbs/ft | kg/m |
| 6 | 1/4 | -4 | 6.6 | 0.26 | 10.0 | 0.39 | 11.5 | 0.45 | 70 | 1015 | 280 | 4060 | 30 | 1.2 | 0.09 | 0.14 |
| 10 | 3/8 | -6 | 9.9 | 0.39 | 12.9 | 0.51 | 14.4 | 0.57 | 70 | 1015 | 280 | 4060 | 50 | 2.0 | 0.15 | 0.23 |
| 12 | 1/2 | -8 | 13.0 | 0.51 | 16.3 | 0.64 | 19.3 | 0.76 | 70 | 1015 | 280 | 4060 | 65 | 2.6 | 0.17 | 0.26 |
| 16 | 5/8 | -10 | 16.4 | 0.64 | 20.3 | 0.80 | 22.2 | 0.87 | 70 | 1015 | 280 | 4060 | 75 | 3.0 | 0.26 | 0.39 |
| 19 | 3/4 | -12 | 19.5 | 0.77 | 23.9 | 0.94 | 26.0 | 1.02 | 70 | 1015 | 280 | 4060 | 90 | 3.5 | 0.33 | 0.49 |
| 25 | 1 | -16 | 26.0 | 1.02 | 31.1 | 1.22 | 33.2 | 1.31 | 70 | 1015 | 280 | 4060 | 114 | 4.5 | 0.48 | 0.71 |
| 31 | 1-1/4 | -20 | 32.5 | 1.28 | 40.2 | 1.58 | 43.6 | 1.71 | 70 | 1015 | 280 | 4060 | 140 | 5.5 | 0.87 | 1.3 |

SEMPERHUB

Compact hydraulic hose design with 250bar constant working pressure for installations that require a very small bending radius [e.g. forklift mast, energy chains]



GENERAL

| | |
|--------------------------|---|
| Tube | Synthetic rubber, resistant against hydraulic fluids (HL, HLP, HLPD, HVLP, HFA, HFAS, HFB, HFC) |
| Reinforcement | Two braids of high tensile steel wire |
| Cover | Abrasion and ozone resistant synthetic rubber Note: various covers available |
| Temperature range | -40°C to 100°C / -40°F to +212°F (max 120°C / 248°F intermittent) |
| Standard branding | Embossed tape |

TECHNICAL DETAILS

| Nominal | | | Internal-Ø | | Braid-Ø | | External-Ø | | Work. pressure (max.) | | Min. burst pressure | | Bending radius (min.) | | Weight approx. | |
|---------|------|------|------------|------|---------|------|------------|------|-----------------------|------|---------------------|-------|-----------------------|------|----------------|------|
| mm | inch | dash | mm | inch | mm | inch | mm | inch | bar | psi | bar | psi | mm | inch | lbs/ft | kg/m |
| 6 | 1/4 | -4 | 6.6 | 0.26 | 11.5 | 0.45 | 13.3 | 0.52 | 250 | 3625 | 1000 | 14500 | 45 | 1.8 | 0.12 | 0.18 |
| 8 | 5/16 | -5 | 8.3 | 0.33 | 12.7 | 0.50 | 14.7 | 0.58 | 250 | 3625 | 1000 | 14500 | 40 | 1.6 | 0.15 | 0.22 |
| 10 | 3/8 | -6 | 9.9 | 0.39 | 14.7 | 0.58 | 16.9 | 0.66 | 250 | 3625 | 1000 | 14500 | 40 | 1.6 | 0.17 | 0.26 |
| 12 | 1/2 | -8 | 13.0 | 0.51 | 18.4 | 0.72 | 20.5 | 0.81 | 250 | 3625 | 1000 | 14500 | 50 | 2.0 | 0.24 | 0.35 |
| 16 | 5/8 | -10 | 16.4 | 0.64 | 21.9 | 0.86 | 23.7 | 0.93 | 250 | 3625 | 1000 | 14500 | 60 | 2.4 | 0.28 | 0.41 |

DIN EN 856 4 SP

Multispiral hydraulic hose acc. to EN 856 4SP – MSHA approved



GENERAL

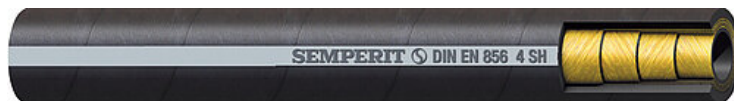
| | |
|--------------------------|---|
| Tube | Synthetic rubber, resistant against hydraulic fluids (HL, HLP, HLPD, HVLP, HFA, HFAS, HFB, HFC) |
| Reinforcement | Four spiral layers of high tensile steel wire |
| Cover | Abrasion and ozone resistant synthetic rubber – MSHA approved Note: various covers available |
| Temperature range | -40°C to 100°C / -40°F to +212°F [max 120°C / 248°F intermittent] |
| Standard branding | Mylar tape |

TECHNICAL DETAILS

| Nominal | | | Internal-Ø | | Spiral-Ø | | External-Ø | | Work. pressure [max.] | | Min. burst pressure | | Bending radius [min.] | | Weight approx. | |
|---------|-------|------|------------|------|----------|------|------------|------|-----------------------|------|---------------------|-------|-----------------------|------|----------------|------|
| mm | inch | dash | mm | inch | mm | inch | mm | inch | bar | psi | bar | psi | mm | inch | lbs/ft | kg/m |
| 10 | 3/8 | -6 | 9.9 | 0.39 | 17.7 | 0.70 | 21.0 | 0.82 | 445 | 6455 | 1780 | 25820 | 180 | 7.1 | 0.47 | 0.70 |
| 12 | 1/2 | -8 | 13.0 | 0.51 | 20.6 | 0.81 | 24.2 | 0.95 | 425 | 6165 | 1700 | 24660 | 230 | 9.1 | 0.56 | 0.84 |
| 16 | 5/8 | -10 | 16.4 | 0.65 | 24.2 | 0.95 | 27.9 | 1.10 | 350 | 5075 | 1400 | 20300 | 250 | 9.8 | 0.76 | 1.13 |
| 19 | 3/4 | -12 | 19.5 | 0.77 | 28.3 | 1.11 | 31.9 | 1.26 | 350 | 5075 | 1400 | 20300 | 300 | 11.8 | 0.95 | 1.41 |
| 25 | 1 | -16 | 25.9 | 1.02 | 35.1 | 1.38 | 39.1 | 1.54 | 320 | 4640 | 1280 | 18560 | 340 | 13.4 | 1.24 | 1.85 |
| 31 | 1-1/4 | -20 | 32.5 | 1.28 | 45.9 | 1.81 | 51.3 | 2.02 | 210 | 3045 | 840 | 12180 | 460 | 18.1 | 2.15 | 3.20 |
| 38 | 1-1/2 | -24 | 38.7 | 1.52 | 52.1 | 2.05 | 56.8 | 2.24 | 185 | 2685 | 740 | 10740 | 560 | 22.0 | 2.53 | 3.76 |
| 51 | 2 | -32 | 51.1 | 2.01 | 65.4 | 2.57 | 70.2 | 2.76 | 165 | 2395 | 660 | 9580 | 660 | 26.0 | 3.34 | 4.97 |

DIN EN 856 4 SH

Multispiral hydraulic hose acc. to EN 856 4SH – MSHA approved



GENERAL

| | |
|--------------------------|---|
| Tube | Synthetic rubber, resistant against hydraulic fluids (HL, HLP, HLPD, HVLP, HFA, HFAS, HFB, HFC) |
| Reinforcement | Four spiral layers of high tensile steel wire |
| Cover | Abrasion and ozone resistant synthetic rubber – MSHA approved Note: various covers available |
| Temperature range | -40°C to 100°C / -40°F to +212°F [max 120°C / 248°F intermittent] |
| Standard branding | Mylar tape |

TECHNICAL DETAILS

| Nominal | | | Internal-Ø | | Spiral-Ø | | External-Ø | | Work. pressure [max.] | | Min. burst pressure | | Bending radius [min.] | | Weight approx. | |
|---------|-------|------|------------|------|----------|------|------------|------|-----------------------|------|---------------------|-------|-----------------------|------|----------------|------|
| mm | inch | dash | mm | inch | mm | inch | mm | inch | bar | psi | bar | psi | mm | inch | lbs/ft | kg/m |
| 16 | 5/8 | -10 | 16,4 | 0.65 | 25,0 | 0.98 | 28,7 | 1.13 | 420 | 6090 | 1680 | 24360 | 200 | 7.9 | 0.85 | 1,26 |
| 19 | 3/4 | -12 | 19,5 | 0.77 | 28,3 | 1.11 | 31,9 | 1.26 | 420 | 6090 | 1680 | 24360 | 280 | 11.0 | 0.97 | 1,44 |
| 25 | 1 | -16 | 25,9 | 1.02 | 35,4 | 1.39 | 38,2 | 1.50 | 380 | 5510 | 1520 | 22040 | 340 | 13.4 | 1.34 | 1,99 |
| 31 | 1-1/4 | -20 | 32,5 | 1.28 | 42,3 | 1.67 | 46,1 | 1.81 | 350 | 5075 | 1400 | 20300 | 460 | 18.1 | 1.71 | 2,55 |
| 38 | 1-1/2 | -24 | 38,7 | 1.52 | 49,2 | 1.94 | 53,4 | 2.10 | 290 | 4205 | 1160 | 16820 | 560 | 22.0 | 2.19 | 3,26 |
| 51 | 2 | -32 | 51,1 | 2.01 | 63,2 | 2.49 | 68,0 | 2.68 | 250 | 3625 | 1000 | 14500 | 700 | 27.6 | 3.02 | 4,50 |

DIN EN 856/SAE 100 R 12

Multispiral hydraulic hose acc. to EN 856 / SAE 100 R12 – MSHA approved



GENERAL

| | |
|--------------------------|---|
| Tube | Synthetic rubber, resistant against hydraulic fluids (HL, HLP, HLPD, HVLP, HFA, HFAS, HFB, HFC) |
| Reinforcement | Four spiral layers of high tensile steel wire |
| Cover | Abrasion and ozone resistant synthetic rubber – MSHA approved Note: various covers available |
| Temperature range | -40°C to 121°C / -40°F to +250°F |
| Standard branding | Mylar tape |

TECHNICAL DETAILS

| Nominal | | | Internal-Ø | | Spiral-Ø | | External-Ø | | Work. pressure (max.) | | Min. burst pressure | | Bending radius (min.) | | Weight approx. | |
|---------|-------|------|------------|------|----------|------|------------|------|-----------------------|------|---------------------|-------|-----------------------|------|----------------|------|
| mm | inch | dash | mm | inch | mm | inch | mm | inch | bar | psi | bar | psi | mm | inch | lbs/ft | kg/m |
| 10 | 3/8 | -6 | 9,9 | 0.39 | 17,4 | 0.69 | 20,2 | 0.79 | 280 | 4060 | 1120 | 16240 | 125 | 4.9 | 0.45 | 0,67 |
| 12 | 1/2 | -8 | 13,0 | 0.51 | 20,6 | 0.81 | 24,2 | 0.95 | 280 | 4060 | 1120 | 16240 | 180 | 7.1 | 0.56 | 0,84 |
| 16 | 5/8 | -10 | 16,4 | 0.65 | 24,2 | 0.95 | 27,9 | 1.10 | 280 | 4060 | 1120 | 16240 | 200 | 7.9 | 0.76 | 1,13 |
| 19 | 3/4 | -12 | 19,5 | 0.77 | 27,9 | 1.10 | 30,5 | 1.20 | 280 | 4060 | 1120 | 16240 | 240 | 9.4 | 0.89 | 1,33 |
| 25 | 1 | -16 | 25,9 | 1.02 | 35,1 | 1.38 | 37,9 | 1.49 | 280 | 4060 | 1120 | 16240 | 300 | 11.8 | 1.20 | 1,79 |
| 31 | 1-1/4 | -20 | 32,5 | 1.28 | 44,1 | 1.73 | 46,2 | 1.82 | 210 | 3045 | 840 | 12180 | 420 | 16.5 | 1.74 | 2,59 |
| 38 | 1-1/2 | -24 | 38,7 | 1.52 | 49,9 | 1.96 | 53,3 | 2.10 | 175 | 2540 | 700 | 10160 | 500 | 19.7 | 2.17 | 3,23 |
| 51 | 2 | -32 | 51,1 | 2.01 | 63,7 | 2.51 | 66,6 | 2.62 | 175 | 2540 | 700 | 10160 | 630 | 24.8 | 2.97 | 4,42 |

DIN EN 856/SAE 100 R 13

Multispiral hydraulic hose acc. to EN 856 / SAE 100 R13 – MSHA approved



GENERAL

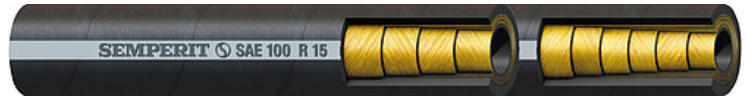
| | |
|--------------------------|---|
| Tube | Synthetic rubber, resistant against hydraulic fluids (HL, HLP, HLPD, HVLP, HFA, HFAS, HFB, HFC) |
| Reinforcement | Four spiral layers DN19 – DN25 and six spiral layers DN32 – DN51 of high tensile steel wire |
| Cover | Abrasion and ozone resistant synthetic rubber – MSHA approved Note: various covers available |
| Temperature range | -40°C to 121°C / -40°F to +250°F |
| Standard branding | Mylar tape |

TECHNICAL DETAILS

| Nominal | | | Internal-Ø | | Spiral-Ø | | External-Ø | | Work. pressure [max.] | | Min. burst pressure | | Bending radius [min.] | | Weight approx. | |
|---------|-------|------|------------|------|----------|------|------------|------|-----------------------|------|---------------------|-------|-----------------------|------|----------------|------|
| mm | inch | dash | mm | inch | mm | inch | mm | inch | bar | psi | bar | psi | mm | inch | lbs/ft | kg/m |
| 19 | 3/4 | -12 | 19,5 | 0.77 | 28,6 | 1.13 | 31,7 | 1.25 | 350 | 5075 | 1400 | 20300 | 240 | 9.4 | 0.97 | 1,44 |
| 25 | 1 | -16 | 25,9 | 1.02 | 35,4 | 1.39 | 38,2 | 1.50 | 350 | 5075 | 1400 | 20300 | 300 | 11.8 | 1.34 | 1,99 |
| 31 | 1-1/4 | -20 | 32,5 | 1.28 | 46,9 | 1.84 | 50,5 | 1.99 | 350 | 5075 | 1400 | 20300 | 420 | 16.5 | 2.64 | 3,93 |
| 38 | 1-1/2 | -24 | 38,7 | 1.52 | 53,9 | 2.12 | 57,4 | 2.26 | 350 | 5075 | 1400 | 20300 | 500 | 19.7 | 3.31 | 4,93 |
| 51 | 2 | -32 | 51,1 | 2.01 | 67,9 | 2.67 | 71,5 | 2.81 | 350 | 5075 | 1400 | 20300 | 630 | 24.8 | 4.64 | 6,90 |

SAE 100 R 15

Multispiral hydraulic hose acc. to SAE 100 R15 – MSHA approved



GENERAL

| | |
|--------------------------|---|
| Tube | Synthetic rubber, resistant against hydraulic fluids (HL, HLP, HLPD, HVLP, HFA, HFAS, HFB, HFC) |
| Reinforcement | Four spiral layers DN10 – DN25 and six spiral layers DN31 – DN51 of high tensile steel wire |
| Cover | Abrasion and ozone resistant synthetic rubber – MSHA approved Note: various covers available |
| Temperature range | -40°C to 121°C / -40°F to +250°F |
| Standard branding | Mylar tape |

TECHNICAL DETAILS

| Nominal | | | Internal-Ø | | Spiral-Ø | | External-Ø | | Work. pressure [max.] | | Min. burst pressure | | Bending radius [min.] | | Weight approx. | |
|---------|-------|------|------------|------|----------|------|------------|------|-----------------------|------|---------------------|-------|-----------------------|------|----------------|------|
| mm | inch | dash | mm | inch | mm | inch | mm | inch | bar | psi | bar | psi | mm | inch | lbs/ft | kg/m |
| 10 | 3/8 | -6 | 9,9 | 0.39 | 17,7 | 0.70 | 21,0 | 0.82 | 420 | 6090 | 1680 | 24360 | 150 | 5.9 | 0.47 | 0,70 |
| 12 | 1/2 | -8 | 13,0 | 0.51 | 20,6 | 0.81 | 24,2 | 0.95 | 420 | 6090 | 1680 | 24360 | 200 | 7.9 | 0.56 | 0,84 |
| 16 | 5/8 | -10 | 16,4 | 0.65 | 24,2 | 0.95 | 27,9 | 1.10 | 420 | 6090 | 1680 | 24360 | 235 | 9.3 | 0.74 | 1,10 |
| 19 | 3/4 | -12 | 19,5 | 0.77 | 28,3 | 1.11 | 31,9 | 1.26 | 420 | 6090 | 1680 | 24360 | 265 | 10.4 | 0.97 | 1,44 |
| 25 | 1 | -16 | 25,9 | 1.02 | 35,4 | 1.39 | 38,2 | 1.50 | 420 | 6090 | 1680 | 24360 | 330 | 13.0 | 1.34 | 1,99 |
| 31 | 1-1/4 | -20 | 32,5 | 1.28 | 46,9 | 1.84 | 50,5 | 1.99 | 420 | 6090 | 1680 | 24360 | 445 | 17.5 | 2.64 | 3,93 |
| 38 | 1-1/2 | -24 | 38,7 | 1.52 | 53,9 | 2.12 | 57,4 | 2.26 | 420 | 6090 | 1680 | 24360 | 530 | 20.9 | 3.31 | 4,93 |
| 51 | 2 | -32 | 51,1 | 2.01 | 67,9 | 2.67 | 71,5 | 2.81 | 420 | 6090 | 1680 | 24360 | 600 | 23.6 | 4.64 | 6,90 |

SEMPERRAIL 4SP

Multispiral hydraulic hose acc. to EN 856 4SP meets EN 45545-2 [HL2-R23]



GENERAL

| | |
|--------------------------|---|
| Tube | Synthetic rubber, resistant against hydraulic fluids (HL, HLP, HLPD, HVLP, HFA, HFAS, HFB, HFC) |
| Reinforcement | Four spiral layers of high tensile steel wire |
| Cover | Abrasion and ozone resistant synthetic rubber – MSHA approved |
| Temperature range | -40°C to 100°C / -40°F to +212°F (max 120°C / 248°F intermittent) |
| Standard branding | Embossed tape |

TECHNICAL DETAILS

| Nominal | | | Internal-Ø | | Spiral-Ø | | External-Ø | | Work. pressure [max.] | | Min. burst pressure | | Bending radius [min.] | | Weight approx. | |
|---------|------|------|------------|------|----------|------|------------|------|-----------------------|------|---------------------|-------|-----------------------|------|----------------|------|
| mm | inch | dash | mm | inch | mm | inch | mm | inch | bar | psi | bar | psi | mm | inch | lbs/ft | kg/m |
| 10 | 3/8 | -6 | 9,9 | 0.39 | 17,7 | 0.70 | 21,0 | 0.82 | 445 | 6455 | 1780 | 25820 | 180 | 7.1 | 0.47 | 0.70 |
| 12 | 1/2 | -8 | 13,0 | 0.51 | 20,6 | 0.81 | 24,2 | 0.95 | 425 | 6165 | 1700 | 24660 | 230 | 9.1 | 0.58 | 0.86 |
| 16 | 5/8 | -10 | 16,4 | 0.65 | 24,2 | 0.95 | 27,9 | 1.10 | 350 | 5075 | 1400 | 20300 | 250 | 9.8 | 0.77 | 1.15 |
| 19 | 3/4 | -12 | 19,5 | 0.77 | 28,3 | 1.11 | 31,9 | 1.26 | 350 | 5075 | 1400 | 20300 | 300 | 11.8 | 0.96 | 1.43 |
| 25 | 1 | -16 | 25,9 | 1.02 | 35,1 | 1.38 | 39,1 | 1.54 | 320 | 4640 | 1280 | 18560 | 340 | 13.4 | 1.26 | 1.88 |

Flexline 4000

The high flexible compact hydraulic hose with reduced bend radii.

Meets ISO 18752 - BC [1-wire and 2-wire braided]

Meets ISO 18752 - Grade C [4-wire spiral]

Exceeds EN 856 / SAE 100 R12 [4-wire spiral]



GENERAL

| | |
|--------------------------|---|
| Tube | Synthetic rubber, resistant against hydraulic fluids (HL, HLP, HLPD, HVLP, HFA, HFAS, HFB, HFC) |
| Reinforcement | One [1W], two [2W] or four [4W] layers of high tensile steel wire |
| Cover | Abrasion and ozone resistant synthetic rubber – MSHA approved Note: various covers available |
| Temperature range | -40°C to 100°C / -40°F to +212°F [1W+2W] -40°C to 121°C / -40°F to +250°F [4W] |
| Standard branding | Mylar tape |
| Note | Impulse tested up to 500.000 cycles [tested acc. to ISO6803:2017] |

TECHNICAL DETAILS

| Nominal | | | Reinforcement layers | Internal-Ø | | Reinforcement-Ø | | External-Ø | | Work. pressure [max.] | | Min. burst pressure | | Bending radius [min.] | | Weight approx. | |
|---------|-------|------|----------------------|------------|------|-----------------|------|------------|------|-----------------------|------|---------------------|-------|-----------------------|-------|----------------|------|
| mm | inch | dash | | mm | inch | mm | inch | mm | inch | bar | psi | bar | psi | mm | inch | lbs/ft | kg/m |
| 6 | 1/4 | -4 | 1 | 6.6 | 0.26 | 9.8 | 0.38 | 11.7 | 0.46 | 280 | 4060 | 1120 | 16240 | 50 | 2.0 | 0.12 | 0.18 |
| 8 | 5/16 | -5 | 2 | 8.3 | 0.33 | 13.0 | 0.51 | 15.0 | 0.59 | 280 | 4060 | 1120 | 16240 | 55 | 2.2 | 0.22 | 0.32 |
| 10 | 3/8 | -6 | 2 | 9.9 | 0.39 | 14.7 | 0.58 | 16.8 | 0.66 | 280 | 4060 | 1120 | 16240 | 65 | 2.6 | 0.25 | 0.37 |
| 10 | 3/8 | -6 | 4 | 9.9 | 0.39 | 17.4 | 0.69 | 20.2 | 0.79 | 280 | 4060 | 1120 | 16240 | 65 | 2.6 | 0.45 | 0.67 |
| 12 | 1/2 | -8 | 2 | 13.0 | 0.51 | 18.4 | 0.72 | 20.5 | 0.81 | 280 | 4060 | 1120 | 16240 | 90 | 3.5 | 0.35 | 0.52 |
| 12 | 1/2 | -8 | 4 | 13.0 | 0.51 | 20.6 | 0.81 | 24.2 | 0.95 | 280 | 4060 | 1120 | 16240 | 90 | 3.5 | 0.56 | 0.84 |
| 16 | 5/8 | -10 | 2 | 16.4 | 0.65 | 21.9 | 0.86 | 23.7 | 0.93 | 280 | 4060 | 1120 | 16240 | 100 | 3.9 | 0.45 | 0.67 |
| 16 | 5/8 | -10 | 4 | 16.4 | 0.65 | 24.2 | 0.95 | 27.9 | 1.10 | 280 | 4060 | 1120 | 16240 | 100 | 3.9 | 0.76 | 1.13 |
| 19 | 3/4 | -12 | 2 | 19.5 | 0.77 | 26.0 | 1.02 | 27.8 | 1.09 | 280 | 4060 | 1120 | 16240 | 120 | 4.7 | 0.58 | 0.87 |
| 19 | 3/4 | -12 | 4 | 19.5 | 0.77 | 27.9 | 1.10 | 30.5 | 1.20 | 280 | 4060 | 1120 | 16240 | 120 | 4.7 | 0.89 | 1.33 |
| 25 | 1 | -16 | 4 | 25.9 | 1.02 | 35.1 | 1.38 | 37.9 | 1.49 | 280 | 4060 | 1120 | 16240 | 150 | 5.9 | 1.20 | 1.79 |
| 31 | 1-1/4 | -20 | 4 | 32.5 | 1.28 | 42.3 | 1.67 | 45.9 | 1.81 | 280 | 4060 | 1120 | 16240 | 210 | 8.27 | 1.71 | 2.55 |
| 38 | 1-1/2 | -24 | 4 | 38.7 | 1.52 | 49.2 | 1.94 | 53.4 | 2.1 | 280 | 4060 | 1120 | 16240 | 250 | 9.84 | 2.22 | 3.31 |
| 51 | 2 | -32 | 4 | 51.1 | 2.01 | 64.3 | 2.53 | 68.0 | 2.68 | 280 | 4060 | 1120 | 16240 | 390 | 15.35 | 2.97 | 4.42 |

Flexline 5000

The high flexible compact hydraulic hose with reduced bend radii and bending force meets ISO 18752 – BC [2-wire braided] and ISO 18752 – CC [4-wire spiral+6-wire spiral]



GENERAL

| | |
|--------------------------|---|
| Tube | Synthetic rubber, resistant against hydraulic fluids (HL, HLP, HLPD, HVLP, HFA, HFAS, HFB, HFC) and bio-degradable hydraulic fluids |
| Reinforcement | Two [2W], four [4W] or six [6W] layers of high tensile steel wire |
| Cover | Abrasion and ozone resistant synthetic rubber – MSHA approved Note: various covers available |
| Temperature range | -40°C to 100°C / -40°F to +212°F [2W] -40°C to 121°C / -40°F to +250°F [4W+6W] |
| Standard branding | Mylar tape |
| Note | Impulse tested up to 500.000 cycles [tested acc. to ISO6803:2017] |

TECHNICAL DETAILS

| Nominal | | | Reinforcement layers | Internal-Ø | | Reinforcement-Ø | | External-Ø | | Work. pressure [max.] | | Min. burst pressure | | Bending radius [min.] | | Weight approx. | |
|---------|-------|------|----------------------|------------|------|-----------------|------|------------|------|-----------------------|------|---------------------|-------|-----------------------|------|----------------|------|
| mm | inch | dash | | mm | inch | mm | inch | mm | inch | bar | psi | bar | psi | mm | inch | lbs/ft | kg/m |
| 6 | 1/4" | -4 | 2 | 6.6 | 0.26 | 11.5 | 0.45 | 13.3 | 0.52 | 350 | 5075 | 1400 | 20300 | 45 | 1.8 | 0.18 | 0.27 |
| 8 | 5/16 | -5 | 2 | 8.3 | 0.32 | 13.1 | 0.51 | 15.0 | 0.59 | 350 | 5075 | 1400 | 20300 | 60 | 2.4 | 0.22 | 0.32 |
| 10 | 3/8 | -6 | 2 | 9.9 | 0.39 | 14.7 | 0.58 | 16.8 | 0.66 | 350 | 5075 | 1400 | 20300 | 65 | 2.6 | 0.26 | 0.38 |
| 10 | 3/8 | -6 | 4 | 9.9 | 0.39 | 17.7 | 0.70 | 20.2 | 0.79 | 380 | 5510 | 1520 | 22040 | 65 | 2.6 | 0.45 | 0.67 |
| 12 | 1/2 | -8 | 4 | 13.0 | 0.51 | 20.6 | 0.81 | 22.9 | 0.90 | 380 | 5510 | 1520 | 22040 | 90 | 3.5 | 0.52 | 0.78 |
| 16 | 5/8 | -10 | 4 | 16.4 | 0.65 | 24.2 | 0.95 | 26.5 | 1.04 | 380 | 5510 | 1520 | 22040 | 100 | 3.9 | 0.71 | 1.05 |
| 19 | 3/4 | -12 | 4 | 19.5 | 0.77 | 27.9 | 1.10 | 30.5 | 1.20 | 380 | 5510 | 1520 | 22040 | 120 | 4.7 | 0.89 | 1.33 |
| 25 | 1 | -16 | 4 | 25.9 | 1.02 | 35.1 | 1.38 | 37.9 | 1.49 | 350 | 5075 | 1400 | 20300 | 150 | 5.9 | 1.20 | 1.79 |
| 31 | 1-1/4 | -20 | 4 | 32.5 | 1.28 | 42.3 | 1.67 | 45.9 | 1.81 | 350 | 5075 | 1400 | 20300 | 210 | 8.3 | 1.71 | 2.55 |
| 38 | 1-1/2 | -24 | 4 | 38.7 | 1.52 | 49.2 | 1.94 | 53.4 | 2.10 | 350 | 5075 | 1400 | 20300 | 250 | 9.8 | 2.19 | 3.26 |
| 38 | 1-1/2 | -24 | 6 | 38.7 | 1.52 | 53.9 | 2.12 | 57.4 | 2.26 | 350 | 5075 | 1400 | 20300 | 460 | 18.1 | 3.31 | 4.93 |
| 51 | 2 | -32 | 6 | 51.1 | 2.01 | 67.9 | 2.67 | 71.5 | 2.81 | 350 | 5075 | 1400 | 20300 | 540 | 21.3 | 4.64 | 6.90 |

Flexline 6000

The high flexible compact hydraulic hose with reduced bend radii and bending force.

Meets ISO 18752 – BC [2-wire braided]

Meets ISO 18752 – CC [4-wire spiral+6-wire spiral]

Exceeds SAE100 R15 [4-wire spiral+6-wire spiral]



GENERAL

| | |
|--------------------------|---|
| Tube | Synthetic rubber, resistant against hydraulic fluids (HL, HLP, HLPD, HVLP, HFA, HFAS, HFB, HFC) and bio-degradable hydraulic fluids |
| Reinforcement | Two [2W], four [4W] or six [6W] layers of high tensile steel wire |
| Cover | Abrasion and ozone resistant synthetic rubber – MSHA approved Note: various covers available |
| Temperature range | -40°C to 100°C / -40°F to +212°F [2W] -40°C to 121°C / -40°F to +250°F [4W+6W] |
| Standard branding | Mylar tape |
| Note | Impulse tested up to 500.000 cycles [tested acc. to ISO6803:2017] |

TECHNICAL DETAILS

| Nominal | | | Reinforcement layers | Internal-Ø | | Reinforcement-Ø | | External-Ø | | Work. pressure [max.] | | Min. burst pressure | | Bending radius [min.] | | Weight approx. | |
|---------|-------|------|----------------------|------------|------|-----------------|------|------------|------|-----------------------|------|---------------------|-------|-----------------------|------|----------------|------|
| mm | inch | dash | | mm | inch | mm | inch | mm | inch | bar | psi | bar | psi | mm | inch | lbs/ft | kg/m |
| 6 | 1/4 | -4 | 2 | 6.4 | 0.25 | 11.5 | 0.45 | 13.3 | 0.52 | 420 | 6090 | 1680 | 24360 | 45 | 1.8 | 0.18 | 0.27 |
| 8 | 5/16 | -5 | 2 | 8.3 | 0.32 | 13.1 | 0.51 | 15.0 | 0.59 | 420 | 6090 | 1680 | 24360 | 55 | 2.2 | 0.22 | 0.32 |
| 10 | 3/8 | -6 | 4 | 9.9 | 0.39 | 17.7 | 0.70 | 20.2 | 0.79 | 420 | 6090 | 1680 | 24360 | 65 | 2.6 | 0.56 | 0.67 |
| 12 | 1/2 | -8 | 4 | 13.0 | 0.51 | 20.6 | 0.81 | 22.9 | 0.90 | 420 | 6090 | 1680 | 24360 | 90 | 3.5 | 0.52 | 0.78 |
| 16 | 5/8 | -10 | 4 | 16.4 | 0.65 | 24.2 | 0.95 | 26.5 | 1.04 | 420 | 6090 | 1680 | 24360 | 100 | 3.9 | 0.71 | 1.05 |
| 19 | 3/4 | -12 | 4 | 19.5 | 0.77 | 28.3 | 1.11 | 30.5 | 1.20 | 420 | 6090 | 1680 | 24360 | 120 | 4.7 | 0.91 | 1.36 |
| 25 | 1 | -16 | 4 | 25.9 | 1.02 | 35.4 | 1.39 | 37.5 | 1.48 | 420 | 6090 | 1680 | 24360 | 150 | 5.9 | 1.31 | 1.95 |
| 31 | 1-1/4 | -20 | 4 | 32.5 | 1.28 | 43.5 | 1.71 | 47.3 | 1.86 | 420 | 6090 | 1680 | 24360 | 400 | 15.7 | 2.02 | 3.01 |
| 31 | 1-1/4 | -20 | 6 | 32.5 | 1.28 | 46.9 | 1.84 | 50.5 | 1.99 | 420 | 6090 | 1680 | 24360 | 400 | 15.7 | 2.53 | 3.77 |
| 38 | 1-1/2 | -24 | 6 | 38.7 | 1.52 | 53.9 | 2.12 | 57.4 | 2.26 | 420 | 6090 | 1680 | 24360 | 460 | 18.1 | 3.31 | 4.93 |
| 51 | 2 | -32 | 6 | 51.1 | 2.01 | 67.9 | 2.67 | 71.5 | 2.81 | 420 | 6090 | 1680 | 24360 | 540 | 21.3 | 4.63 | 6.89 |

FLEXLINE PLUS

The high flexible multi-spiral compact hydraulic hose with reduced bend radii and increased working pressure exceeds performance of EN856 4SP and 4SH



GENERAL

| | |
|--------------------------|---|
| Tube | Synthetic rubber, resistant against hydraulic fluids (HL, HLP, HLPD, HVLP, HFA, HFAS, HFB, HFC) and bio-degradable hydraulic fluids |
| Reinforcement | Four high tensile steel wire |
| Cover | Abrasion and ozone resistant synthetic rubber MSHA, SemperRock and SemperShield (DN10-DN25) cover available |
| Temperature range | -40°C to 100°C / -40°F to +212°F (max 120°C / 248°F intermittent) |
| Standard branding | Mylar tape |
| Note | Impulse tested up to 1 million cycles (tested acc. to ISO6803:2017) |

TECHNICAL DETAILS

| Nominell | | | Innen-Ø | | Spiral-Ø | | Außen-Ø | | Betriebsdruck [max.] | | Min. Berstdruck | | Biegeradius [min.] | | Gewicht ca. | | Anforderungen nach EN856 4SP/4SH | | |
|----------|-------|------|---------|------|----------|------|---------|------|----------------------|------|-----------------|-------|--------------------|------|-------------|------|----------------------------------|---------------|-------------|
| mm | Zoll | dash | mm | Zoll | mm | Zoll | mm | Zoll | bar | psi | bar | psi | mm | Zoll | lbs/ft | kg/m | Typ | Betriebsdruck | Biegeradius |
| | | | | | | | | | | | | | | | | | | bar | mm |
| 10 | 3/8 | -6 | 9,9 | 0.39 | 17,7 | 0.70 | 20,2 | 0.79 | 470 | 6815 | 1880 | 27260 | 60 | 2.4 | 0.46 | 0,69 | Exceeds 4SP | 445 | 180 |
| 12 | 1/2 | -8 | 13,0 | 0.51 | 20,6 | 0.81 | 22,9 | 0.90 | 470 | 6815 | 1880 | 27260 | 85 | 3.3 | 0.53 | 0,79 | Exceeds 4SP | 415 | 230 |
| 16 | 5/8 | -10 | 16,4 | 0.65 | 25,0 | 0.98 | 27,2 | 1.07 | 470 | 6815 | 1880 | 27260 | 100 | 3.9 | 0.79 | 1,17 | Exceeds 4SH | 420 | 200 |
| 19 | 3/4 | -12 | 19,5 | 0.77 | 28,3 | 1.11 | 30,5 | 1.20 | 450 | 6525 | 1800 | 26100 | 120 | 4.7 | 0.91 | 1,36 | Exceeds 4SH | 420 | 280 |
| 25 | 1 | -16 | 25,9 | 1.02 | 35,4 | 1.39 | 37,5 | 1.48 | 440 | 6380 | 1760 | 25520 | 150 | 5.9 | 1.30 | 1,94 | Exceeds 4SH | 380 | 340 |
| 31 | 1-1/4 | -20 | 32,5 | 1.28 | 43,5 | 1.71 | 47,3 | 1.86 | 370 | 5365 | 1480 | 21460 | 210 | 8.3 | 1.81 | 2,70 | Exceeds 4SH | 325 | 460 |
| 38 | 1-1/2 | -24 | 38,7 | 1.52 | 49,2 | 1.94 | 53,4 | 2.10 | 320 | 4640 | 1280 | 18560 | 250 | 9.8 | 2.22 | 3,31 | Exceeds 4SH | 290 | 560 |
| 51 | 2 | -32 | 51,1 | 2.01 | 64,3 | 2.53 | 68,0 | 2.68 | 280 | 4060 | 1120 | 16240 | 390 | 15.4 | 2.97 | 4,42 | Exceeds 4SH | 250 | 700 |

SEMPERMAX

Ultra High Pressure Hydraulic Spiral Hose with 500+ Bar Technology



Designed for today's highest demanding hydraulic systems:

- Hydrostatic drive applications (working pressure up to 560 bar)
- Highest pressure applications (forestry, large construction, agriculture)

GENERAL

| | |
|--------------------------|---|
| Tube | Synthetic rubber, resistant against hydraulic fluids (HL, HLP, HLPD, HVLP, HFA, HFAS, HFB, HFC) |
| Reinforcement | Four spiral layers DN19 – DN25 and six spiral layers DN32 of high tensile steel wire |
| Cover | SemperRock Abrasion and ozone resistant synthetic rubber – MSHA approved SemperShield cover available on request |
| Temperature range | -40°C to 100°C / -40°F to +212°F (max 120°C / 248°F intermittent) |
| Standard branding | Mylar tape |
| Note | Impulse tested up to 500.000 cycles (tested acc. to ISO6803:2017) |

TECHNICAL DETAILS

| Nominal | | | Internal-Ø | | Spiral-Ø | | External-Ø | | Work. pressure (max.) | | Min. burst pressure | | Bending radius (min.) | | Weight approx. | |
|---------|-------|------|------------|------|----------|------|------------|------|-----------------------|------|---------------------|-------|-----------------------|------|----------------|------|
| mm | inch | dash | mm | inch | mm | inch | mm | inch | bar | psi | bar | psi | mm | inch | lbs/ft | kg/m |
| 19 | 3/4 | -12 | 19,5 | 0.77 | 29,1 | 1.14 | 31,4 | 1.24 | 560 | 8120 | 2240 | 32480 | 270 | 10.6 | 1.06 | 1,57 |
| 25 | 1 | -16 | 25,9 | 1.02 | 36,7 | 1.44 | 38,9 | 1.53 | 560 | 8120 | 2240 | 32480 | 300 | 11.8 | 1.54 | 2,29 |
| 31 | 1-1/4 | -20 | 32,5 | 1.28 | 46,9 | 1.84 | 50,5 | 1.99 | 525 | 7610 | 2100 | 30440 | 420 | 16.5 | 2.77 | 4,12 |

3

**PRESSURE WASHER HOSES –
GENERAL INFORMATION**

TEMPERATURE AND RESISTANCE

Semperit pressure washer hoses are designed for cold and hot water applications up to 155°C /311°F.

Semperjet hoses are generally resistant against cold and hot water, with many cleaning agents, at recommended concentration and application temperature.

In case of any insecurities about cleaning agents or other conditions of use, make sure to clarify those with our technical specialists .

Not suitable for steam or oil.

Caution: The hose's inner surface (inner liner) must be appropriate for the medium used in application, as otherwise the hose can be damaged or destroyed by the working medium or its contents and eventually fail, which can result in (partial or serious) material damage and personal injury.

Our pressure washer hoses are not designated for sale to the general public and do not fulfill the conditions for “GS-certification” (voluntary certification related to tested safety). If you or your customers should intend to sell our pressure washer hoses to the general public / or in case you require pressure washer hoses suited for GS-certification please contact a Semperit specialist.

For safety reasons, in case of individual questions or uncertainties about the choice, use or proper handling, please contact a Semperit specialist.



| DN | | SEMPERJET 1 SN | SEMPERJET 2 SN | SEMPERJET 210 | SEMPERJET 250 | SEMPERJET LONGLIFE 400 | SEMPERJET LONGLIFE 500 | SEMPERJET ECO 3000 | SEMPERJET ECO 4000 | SEMPERJET ECO 5000 | SEMPERJET ECO 6000 | |
|------------------------------|------|----------------|----------------|---------------|---------------|------------------------|------------------------|--------------------|--------------------|--------------------|--------------------|-----|
| Working pressure [wp] in bar | | | | | | | | | | | | |
| mm | inch | dash | [wp] | [wp] | [wp] | [wp] | [wp] | [wp] | [wp] | [wp] | [wp] | |
| 6 | 1/4 | -4 | 250 | 400 | 210 | 250 | 400 | 500 | 210 | 276 | 350 | 414 |
| 8 | 5/16 | -5 | 220 | 400 | | 250 | 400 | 500 | 210 | 276 | 350 | 414 |
| 10 | 3/8 | 6 | 220 | 400 | | 250 | 400 | 500 | 210 | 280 | 350 | 420 |
| 12 | 1/2 | -8 | 220 | 400 | | 250 | 400 | 500 | 210 | 276 | 350 | 414 |
| 16 | 5/8 | -10 | 130 | | | | | | | | | |

| DN | | SEMPERJET 1 SN | SEMPERJET 2 SN | SEMPERJET 210 | SEMPERJET 250 | SEMPERJET LONGLIFE 400 | SEMPERJET LONGLIFE 500 | SEMPERJET ECO 3000 | SEMPERJET ECO 4000 | SEMPERJET ECO 5000 | SEMPERJET ECO 6000 | |
|------------------------|------|----------------|----------------|---------------|---------------|------------------------|------------------------|--------------------|--------------------|--------------------|--------------------|-----|
| Bend radius [br] in mm | | | | | | | | | | | | |
| mm | inch | dash | [br] | [br] | [br] | [br] | [br] | [br] | [br] | [br] | [br] | |
| 6 | 1/4 | -4 | 100 | 100 | 35 | 35 | 75 | 55 | 35 | 35 | 75 | 75 |
| 8 | 5/16 | -5 | 115 | 115 | | 65 | 85 | 60 | 65 | 65 | 85 | 85 |
| 10 | 3/8 | 6 | 125 | 125 | | 75 | 90 | 70 | 65 | 65 | 90 | 65 |
| 12 | 1/2 | -8 | 180 | 180 | | 100 | 130 | 90 | 100 | 100 | 130 | 130 |
| 16 | 5/8 | -10 | 200 | | | | | | | | | |

SEMPERIT HOSES FOR PRESSURE WASHER APPLICATIONS

Semperit is one of the largest producers of pressure washer hoses worldwide, and is specialized in the production and marketing of these products. Leading brands rely on Semperit hoses in their equipment.

MODULAR SYSTEM FOR PRESSURE WASHER HOSES

| 1 HOSES | 2 COVERS | 3 BRANDINGS |
|---|--|--|
|  <p>HOSE</p> <p>Semperjet 1SN + 2SN Typical after-sales market hoses for many applications</p> <p>Advantages:</p> <ul style="list-style-type: none"> • Solid construction • Good service lifetime • Multifitting compability with dimensions following SAE100 /EN853 • Easy to crimp <p>Special compact construction</p> <p>Advantages:</p> <ul style="list-style-type: none"> • Increased working pressure • Small diameters, low weight • Very flexible and light |  <p>COVER</p> <p>Black Standard for pressure washer hoses</p> <p>Blue</p> <p>Grey</p> <p>Antiabrasion (UHMPE foil) Pinpricked possible on special request</p> <p>All covers wrapped</p> |  <p>BRANDING</p> <p>Embossed Branding Standard for pressure washer hoses</p> <p>Mylar Tape Branding</p> <p>Inkjet Branding</p> |

Please contact our sales department to discuss details.

4

PRESSURE WASHER HOSE TYPES

SEMPERJET 1 SN

High pressure hose for pressure washer applications, exceeds ISO 7751 class 6



Dimensions and tolerances acc. to DIN EN 853 1SN

For cold and hot water up to 155°C (310°F)

GENERAL

| | |
|--------------------------|---|
| Tube | Synthetic rubber, resistant against cold and hot water with usual cleaning agents |
| Reinforcement | One braid of high tensile steel wire |
| Cover | Abrasion and ozone resistant synthetic rubber Standard cover: Black, blue or grey [Available on request with black, blue and grey cover acc. to committee for Product Safety AfPS GS 2019:01 / Category 2 b.] |
| Temperature range | -10°C to 155°C / 14°F to +310°F |
| Standard branding | Embossed tape |
| Note | Not suitable for steam and oil hydraulic applications |

TECHNICAL DETAILS

| Nominal | | | Internal-Ø | | Braid-Ø | | External-Ø | | Work. pressure [max.] | | Min. burst pressure | | Bending radius [min.] | | Weight approx. | |
|---------|------|------|------------|------|---------|------|------------|------|-----------------------|------|---------------------|-------|-----------------------|------|----------------|------|
| mm | inch | dash | mm | inch | mm | inch | mm | inch | bar | psi | bar | psi | mm | inch | lbs/ft | kg/m |
| 6 | 1/4 | -4 | 6,6 | 0.26 | 10,8 | 0.43 | 12,9 | 0.51 | 250 | 3625 | 900 | 13055 | 100 | 3.9 | 0.12 | 0,18 |
| 8 | 5/16 | -5 | 8,3 | 0.32 | 12,5 | 0.49 | 14,7 | 0.58 | 220 | 3190 | 860 | 12475 | 115 | 4.5 | 0.15 | 0,23 |
| 10 | 3/8 | -6 | 9,9 | 0.39 | 14,8 | 0.58 | 16,7 | 0.66 | 220 | 3190 | 720 | 10445 | 125 | 4.9 | 0.19 | 0,29 |
| 12 | 1/2 | -8 | 13,0 | 0.51 | 17,9 | 0.7 | 19,9 | 0.78 | 220 | 3190 | 640 | 9280 | 180 | 7.1 | 0.25 | 0,37 |
| 16 | 5/8 | -10 | 16,4 | 0.65 | 21,0 | 0.83 | 23,2 | 0.91 | 130 | 1885 | 520 | 7540 | 200 | 7.9 | 0.29 | 0,43 |

SEMPERJET 2 SN

High pressure hose for pressure washer applications, exceeds EN1829-2 and ISO 7751 class 6



Dimensions and tolerances acc. to DIN EN 853 2SN

For cold and hot water up to 155°C [310°F]

GENERAL

| | |
|--------------------------|---|
| Tube | Synthetic rubber, resistant against cold and hot water with usual cleaning agents |
| Reinforcement | Two braids of high tensile steel wire |
| Cover | Abrasion and ozone resistant synthetic rubber Standard cover: Black, blue or grey [Available on request with black, blue and grey cover acc. to committee for Product Safety AfPS GS 2019:01 / Category 2 b.] |
| Temperature range | -10°C to 155°C / 14°F to +310°F |
| Standard branding | Embossed tape |
| Note | Not suitable for steam and oil hydraulic applications |

TECHNICAL DETAILS

| Nominal | | | Internal-Ø | | Braid-Ø | | External-Ø | | Work. pressure [max.] | | Min. burst pressure | | Bending radius [min.] | | Weight approx. | |
|---------|------|------|------------|------|---------|------|------------|------|-----------------------|------|---------------------|-------|-----------------------|------|----------------|------|
| mm | inch | dash | mm | inch | mm | inch | mm | inch | bar | psi | bar | psi | mm | inch | lbs/ft | kg/m |
| 6 | 1/4 | -4 | 6,6 | 0.26 | 12,4 | 0.49 | 14,3 | 0.56 | 400 | 5800 | 1600 | 23205 | 100 | 3.9 | 0.21 | 0,31 |
| 8 | 5/16 | -5 | 8,3 | 0.33 | 14,0 | 0.55 | 16,0 | 0.63 | 400 | 5800 | 1400 | 20305 | 115 | 4.5 | 0.25 | 0,37 |
| 10 | 3/8 | -6 | 9,9 | 0.39 | 16,4 | 0.65 | 18,4 | 0.72 | 400 | 5800 | 1320 | 19145 | 125 | 4.9 | 0.30 | 0,44 |
| 12 | 1/2 | -8 | 13,0 | 0.51 | 19,4 | 0.76 | 21,3 | 0.84 | 400 | 5800 | 1100 | 15955 | 180 | 7.1 | 0.38 | 0,56 |

SEMPERJET 210

High pressure hose for pressure washer applications, compact construction exceeds ISO 7751 class 6, for cold and hot water up to 155°C [310°F]



Extraordinary flexibility – 35mm bend radius

GENERAL

| | |
|--------------------------|---|
| Tube | Synthetic rubber, resistant against cold and hot water with usual cleaning agents |
| Reinforcement | One braid of high tensile steel wire |
| Cover | Abrasion and ozone resistant synthetic rubber Standard cover: Black, blue or grey [Available on request with black, blue and grey cover acc. to committee for Product Safety AfPS GS 2019:01 / Category 2 b.] |
| Temperature range | -10°C to 155°C / 14°F to +310°F |
| Standard branding | Embossed tape |
| Note | Not suitable for steam and oil hydraulic applications |

TECHNICAL DETAILS

| Nominal | | | Internal-Ø | | Braid-Ø | | External-Ø | | Work. pressure [max.] | | Min. burst pressure | | Bending radius [min.] | | Weight approx. | |
|---------|------|------|------------|------|---------|------|------------|------|-----------------------|------|---------------------|-------|-----------------------|------|----------------|------|
| mm | inch | dash | mm | inch | mm | inch | mm | inch | bar | psi | bar | psi | mm | inch | lbs/ft | kg/m |
| 6 | 1/4 | -4 | 6,6 | 0.26 | 10,0 | 0.39 | 11,7 | 0.46 | 210 | 3045 | 840 | 12185 | 35 | 1.4 | 0.09 | 0,14 |

SEMPERJET 250

High pressure hose for pressure washer applications

Compact construction exceeds ISO 7751 class 6

For cold and hot water up to 155°C [310°F]



GENERAL

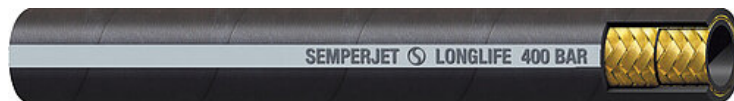
| | |
|--------------------------|---|
| Tube | Synthetic rubber, resistant against cold and hot water with usual cleaning agents |
| Reinforcement | One braid of high tensile steel wire |
| Cover | Abrasion and ozone resistant synthetic rubber Standard cover: Black, blue or grey [Available on request with black, blue and grey cover acc. to committee for Product Safety AfPS GS 2019:01 / Category 2 b.] |
| Temperature range | -10°C to 155°C / 14°F to +310°F |
| Standard branding | Embossed tape |
| Note | Not suitable for steam and oil hydraulic applications |

TECHNICAL DETAILS

| Nominal | | | Internal-Ø | | Braid-Ø | | External-Ø | | Work. pressure (max.) | | Min. burst pressure | | Bending radius [min.] | | Weight approx. | |
|---------|------|------|------------|------|---------|------|------------|------|-----------------------|------|---------------------|-------|-----------------------|------|----------------|------|
| mm | inch | dash | mm | inch | mm | inch | mm | inch | bar | psi | bar | psi | mm | inch | lbs/ft | kg/m |
| 6 | 1/4 | -4 | 6,6 | 0.26 | 10,0 | 0.39 | 11,8 | 0.46 | 250 | 3625 | 1000 | 14505 | 35 | 1.4 | 0.11 | 0,16 |
| 8 | 5/16 | -5 | 8,3 | 0.33 | 11,7 | 0.46 | 13,7 | 0.54 | 250 | 3625 | 1000 | 14505 | 65 | 2.6 | 0.14 | 0,21 |
| 10 | 3/8 | -6 | 9,9 | 0.39 | 13,5 | 0.53 | 16,5 | 0.65 | 250 | 3625 | 950 | 13780 | 75 | 3.0 | 0.19 | 0,29 |
| 12 | 1/2 | -8 | 13,0 | 0.51 | 17,1 | 0.67 | 19,5 | 0.77 | 250 | 3625 | 840 | 12185 | 100 | 3.9 | 0.26 | 0,39 |

SEMPERJET LONGLIFE 400

High pressure hose for pressure washer applications, compact construction exceeds EN 1829-2 and ISO 7751 class 6



Dimensions and tolerances acc. to DIN EN 857 2SC, for cold and hot water up to 155°C (310°F)

GENERAL

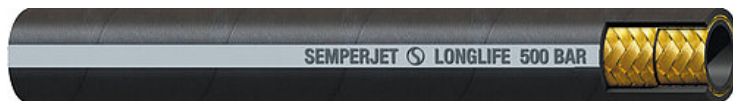
| | |
|--------------------------|---|
| Tube | Synthetic rubber, resistant against cold and hot water with usual cleaning agents |
| Reinforcement | Two braids of high tensile steel wire |
| Cover | Abrasion and ozone resistant synthetic rubber Standard cover: Black, blue or grey [Available on request with black, blue and grey cover acc. to committee for Product Safety AfPS GS 2019:01 / Category 2 b.] |
| Temperature range | -10°C to 155°C / 14°F to +310°F |
| Standard branding | Embossed tape |
| Note | Not suitable for steam and oil hydraulic applications |

TECHNICAL DETAILS

| Nominal | | | Internal-Ø | | Braid-Ø | | External-Ø | | Work. pressure [max.] | | Min. burst pressure | | Bending radius [min.] | | Weight approx. | |
|---------|------|------|------------|------|---------|------|------------|------|-----------------------|------|---------------------|-------|-----------------------|------|----------------|------|
| mm | inch | dash | mm | inch | mm | inch | mm | inch | bar | psi | bar | psi | mm | inch | lbs/ft | kg/m |
| 6 | 1/4 | -4 | 6,6 | 0.26 | 11,0 | 0.43 | 13,0 | 0.51 | 400 | 5800 | 1600 | 23205 | 75 | 3.0 | 0.17 | 0,26 |
| 8 | 5/16 | -5 | 8,3 | 0,33 | 12,7 | 0.50 | 14,6 | 0.57 | 400 | 5800 | 1400 | 20305 | 85 | 3.3 | 0.22 | 0,32 |
| 10 | 3/8 | -6 | 9,9 | 0.39 | 14,7 | 0.58 | 16,6 | 0.65 | 400 | 5800 | 1320 | 19145 | 90 | 3.5 | 0.25 | 0,37 |
| 12 | 1/2 | -8 | 13,0 | 0.51 | 18,0 | 0.71 | 20,0 | 0.79 | 400 | 5800 | 1100 | 15955 | 130 | 5.1 | 0.30 | 0,45 |

SEMPERJET LONGLIFE 500

High pressure hose for pressure washer applications, compact construction exceeds EN 1829-2 and ISO 7751 class 6



For cold and hot water up to 155°C [310°F]

GENERAL

| | |
|--------------------------|--|
| Tube | Synthetic rubber, resistant against cold and hot water with usual cleaning agents |
| Reinforcement | Two braids of high tensile steel wire |
| Cover | Abrasion and ozone resistant synthetic rubber Standard cover: Black, blue or grey (Available on request with black, blue and grey cover acc. to committee for Product Safety AfPS GS 2019:01 / Category 2 b.) |
| Temperature range | -10°C to 155°C / 14°F to +310°F |
| Standard branding | Embossed tape |
| Note | Not suitable for steam and oil hydraulic applications |

TECHNICAL DETAILS

| Nominal | | | Internal-Ø | | Braid-Ø | | External-Ø | | Work. pressure (max.) | | Min. burst pressure | | Bending radius (min.) | | Weight approx. | |
|---------|------|------|------------|------|---------|------|------------|------|-----------------------|------|---------------------|-------|-----------------------|------|----------------|------|
| mm | inch | dash | mm | inch | mm | inch | mm | inch | bar | psi | bar | psi | mm | inch | lbs/ft | kg/m |
| 6 | 1/4 | -4 | 6,6 | 0,26 | 11,5 | 0,45 | 13,1 | 0,52 | 500 | 7250 | 1600 | 23205 | 55 | 2.2 | 0.19 | 0,28 |
| 8 | 5/16 | -5 | 8,3 | 0,32 | 12,8 | 0,50 | 14,5 | 0,57 | 500 | 7250 | 1540 | 22335 | 70 | 2.8 | 0.26 | 0,39 |
| 10 | 3/8 | -6 | 9,9 | 0,39 | 14,8 | 0,58 | 16,9 | 0,67 | 500 | 7250 | 1540 | 22335 | 70 | 2.8 | 0.26 | 0,39 |
| 12 | 1/2 | -8 | 13,0 | 0,51 | 18,4 | 0,72 | 20,4 | 0,80 | 500 | 7250 | 1380 | 20015 | 90 | 3.5 | 0.38 | 0,56 |

ECO 3000

High pressure hose for pressure washer applications, exceeds ISO 7751 class 6



For cold and hot water up to 155°C [310°F]

GENERAL

| | |
|--------------------------|--|
| Tube | Synthetic rubber, resistant against cold and hot water with usual cleaning agents |
| Reinforcement | One braid of high tensile steel wire |
| Cover | Abrasion and ozone resistant synthetic rubber Standard cover: Black, blue or grey |
| Temperature range | -10°C to 155°C / 14°F to +310°F |
| Standard branding | Embossed tape |
| Note | Not suitable for steam and oil hydraulic applications |

TECHNICAL DETAILS

| Nominal | | | Internal-Ø | | Braid-Ø | | External-Ø | | Work. pressure [max.] | | Min. burst pressure | | Bending radius [min.] | | Weight approx. | |
|---------|------|------|------------|------|---------|------|------------|------|-----------------------|------|---------------------|------|-----------------------|------|----------------|------|
| mm | inch | dash | mm | inch | mm | inch | mm | inch | bar | psi | bar | psi | mm | inch | lbs/ft | kg/m |
| 6 | 1/4 | -4 | 6,6 | 0,26 | 10,4 | 0,41 | 12,0 | 0,47 | 210 | 3045 | 630 | 9140 | 35 | 1.4 | 0.12 | 0,18 |
| 8 | 5/16 | -5 | 8,3 | 0,32 | 11,9 | 0,47 | 13,6 | 0,54 | 210 | 3045 | 630 | 9140 | 65 | 2.6 | 0.13 | 0,20 |
| 10* | 3/8 | -6 | 9,9 | 0,39 | 13,4 | 0,53 | 15,1 | 0,59 | 210 | 3045 | 630 | 9140 | 75 | 3.0 | 0.15 | 0,22 |
| 12 | 1/2 | -8 | 13,0 | 0,51 | 17,6 | 0,69 | 19,4 | 0,76 | 210 | 3045 | 630 | 9140 | 100 | 3.9 | 0.25 | 0,37 |

ECO 4000

High pressure hose for pressure washer applications, exceeds ISO 7751 class 6



For cold and hot water up to 155°C [310°F]

GENERAL

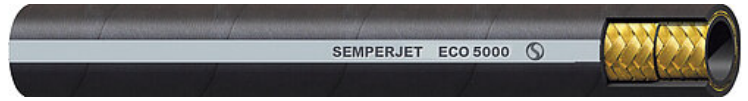
| | |
|--------------------------|--|
| Tube | Synthetic rubber, resistant against cold and hot water with usual cleaning agents |
| Reinforcement | One braid of high tensile steel wire |
| Cover | Abrasion and ozone resistant synthetic rubber Standard cover: Black, blue or grey |
| Temperature range | -10°C to 155°C / 14°F to +310°F |
| Standard branding | Embossed tape |
| Note | Not suitable for steam and oil hydraulic applications |

TECHNICAL DETAILS

| Nominal | | | Internal-Ø | | Braid-Ø | | External-Ø | | Work. pressure [max.] | | Min. burst pressure | | Bending radius [min.] | | Weight approx. | |
|---------|------|------|------------|------|---------|------|------------|------|-----------------------|------|---------------------|-------|-----------------------|------|----------------|------|
| mm | inch | dash | mm | inch | mm | inch | mm | inch | bar | psi | bar | psi | mm | inch | lbs/ft | kg/m |
| 6 | 1/4 | -4 | 6,6 | 0,26 | 10,4 | 0,41 | 12,0 | 0,47 | 276 | 4000 | 828 | 12010 | 35 | 1.4 | 0.12 | 0,18 |
| 8 | 5/16 | -5 | 8,3 | 0,32 | 11,9 | 0,47 | 13,7 | 0,54 | 276 | 4000 | 828 | 12010 | 65 | 2.6 | 0.13 | 0,20 |
| 10* | 3/8 | -6 | 9,9 | 0,39 | 13,4 | 0,53 | 15,1 | 0,59 | 280 | 4060 | 840 | 12185 | 65 | 2.6 | 0.15 | 0,22 |
| 12 | 1/2 | -8 | 13,0 | 0,51 | 17,6 | 0,69 | 19,4 | 0,76 | 276 | 4000 | 828 | 12010 | 100 | 3.9 | 0.25 | 0,37 |

ECO 5000

High pressure hose for pressure washer applications, exceeds ISO 7751 class 6



For cold and hot water up to 155°C [310°F]

GENERAL

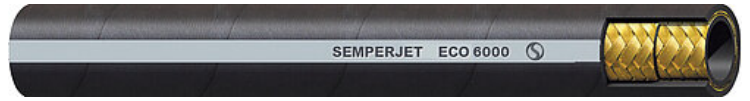
| | |
|--------------------------|--|
| Tube | Synthetic rubber, resistant against cold and hot water with usual cleaning agents |
| Reinforcement | Two braids of high tensile steel wire |
| Cover | Abrasion and ozone resistant synthetic rubber Standard cover: Black, blue or grey |
| Temperature range | -10°C to 155°C / 14°F to +310°F |
| Standard branding | Embossed tape |
| Note | Not suitable for steam and oil hydraulic applications |

TECHNICAL DETAILS

| Nominal | | | Internal-Ø | | Braid-Ø | | External-Ø | | Work. pressure [max.] | | Min. burst pressure | | Bending radius [min.] | | Weight approx. | |
|---------|------|------|------------|------|---------|------|------------|------|-----------------------|------|---------------------|-------|-----------------------|------|----------------|------|
| mm | inch | dash | mm | inch | mm | inch | mm | inch | bar | psi | bar | psi | mm | inch | lbs/ft | kg/m |
| 6 | 1/4 | -4 | 6,6 | 0.26 | 11,7 | 0.46 | 13,6 | 0.54 | 350 | 5075 | 1050 | 15230 | 75 | 3.0 | 0.20 | 0,30 |
| 8 | 5/16 | -5 | 8,3 | 0.32 | 13,1 | 0.51 | 15,3 | 0.60 | 350 | 5075 | 1050 | 15230 | 85 | 3.3 | 0.23 | 0,34 |
| 10* | 3/8 | -6 | 9,9 | 0.39 | 14,5 | 0.57 | 16,3 | 0.64 | 350 | 5075 | 1050 | 15230 | 90 | 3.5 | 0.22 | 0,33 |
| 12 | 1/2 | -8 | 13,0 | 0.51 | 18,8 | 0.74 | 21,0 | 0.83 | 350 | 5075 | 1050 | 15230 | 130 | 5.1 | 0.40 | 0,59 |

ECO 6000

High pressure hose for pressure washer applications, exceeds ISO 7751 class 6



For cold and hot water up to 155°C (310°F)

GENERAL

| | |
|--------------------------|--|
| Tube | Synthetic rubber, resistant against cold and hot water with usual cleaning agents |
| Reinforcement | Two braids of high tensile steel wire |
| Cover | Abrasion and ozone resistant synthetic rubber Standard cover: Black, blue or grey |
| Temperature range | -10°C to 155°C / 14°F to +310°F |
| Standard branding | Embossed tape |
| Note | Not suitable for steam and oil hydraulic applications |

TECHNICAL DETAILS

| Nominal | | | Internal-Ø | | Braid-Ø | | External-Ø | | Work. pressure [max.] | | Min. burst pressure | | Bending radius [min.] | | Weight approx. | |
|---------|------|------|------------|------|---------|------|------------|------|-----------------------|------|---------------------|-------|-----------------------|------|----------------|------|
| mm | inch | dash | mm | inch | mm | inch | mm | inch | bar | psi | bar | psi | mm | inch | lbs/ft | kg/m |
| 6 | 1/4 | -4 | 6,6 | 0.26 | 11,7 | 0.46 | 13,6 | 0.54 | 414 | 6000 | 1242 | 18015 | 75 | 3.0 | 0.20 | 0,3 |
| 8 | 5/16 | -5 | 8,3 | 0.32 | 13,1 | 0.51 | 15,3 | 0.60 | 414 | 6000 | 1242 | 18015 | 85 | 3.3 | 0.23 | 0,34 |
| 10* | 3/8 | -6 | 9,9 | 0.39 | 14,5 | 0.57 | 16,3 | 0.64 | 420 | 6090 | 1260 | 18275 | 65 | 2.6 | 0.22 | 0,33 |
| 12 | 1/2 | -8 | 13,0 | 0.51 | 18,8 | 0.74 | 21,0 | 0.83 | 414 | 6000 | 1242 | 18015 | 130 | 5.1 | 0.40 | 0,59 |

5

**HOSE TYPE APPROVAL
CERTIFICATES**

**SPECIFICATION OF HOSE
LENGTH IN ONE SHIPMENT**

TYPE APPROVAL CERTIFICATES

Approval Types of Semperit Hoses:

Off-shore

| | |
|---------------|---|
| DNV GL | Det Norske Veritas – Germanischer Lloyd |
| ABS | American Bureau of Shipping |
| RINA | Registro Italiano Navale |

Mining & Special

| | |
|--------------|---------------------------------------|
| MSHA | Mine Safety and Health Administration |
| OPAVA | Technical Laboratories OPAVA |
| MA | Mining Certificate China |
| GOST | Gossudarstwenny Standart |



Environmental management system according to ISO14001: 2015

SPECIFICATION OF HYDRAULIC HOSE LENGTH IN ONE SHIPMENT

If no specific hose lengths have been agreed on, the percentage of different lengths in any given delivery shall be as follows:

According to EN 853 – 857:

min. 80% in lengths over 20 m
 max. 20% in lengths over 10 m to 20 m
 max. 3% in lengths over 1 m to 10 m
 no length of hose may be less than 1 m
 tolerance of the specified coil length is $\pm 2\%$



SEMPERIT standard:

min. 90% in lengths over 25 m
 max. 10% in lengths over 5 m to 25 m
 no length of hose is less than 5 m
 tolerance of the specified coil length is $\pm 2\%$

SPECIFICATION OF PRESSURE WASHER HOSE LENGTH IN ONE SHIPMENT

SEMPERIT standard:

Multiples of 10 m – prices on request
 Deviations from standard (fix lengths, cut and coiled, ready for crimping) – prices on request

6

**GENERAL INFORMATION
ON USE**

GENERAL INFORMATION ON THE USE OF OUR PRODUCTS

The choice of the correct type of hose is very important for proper and safe use in service.

Please check the suitability of the chosen product for the customer's specific applications, and instruct your customers accurately about the functional range of our products and their limitations.

Please note that the suitability of a chosen product for the customer's specific application can only be determined in individual cases and is dependent on the specific installation situation (especially the hose curvature), the combination with a coupling, and the compatibility of the medium with the inner surface of the hose (inner liner).

Additionally: not suitable for aerial vehicles

Please consult our home page hoses.semperitgroup.com for further information in detail. This brief overview does not replace specific advice in individual cases.

Please obtain specific advice in the event of any uncertainty!

The number of potential operating hours decreases if the hose is used under unfavorable operating conditions. These include maximum operational pressure, maximum temperature, and minimum bending radius. When several of these factors coincide, the product deteriorates more rapidly and therefore must be replaced sooner.

Therefore please verify operating conditions regularly, and adapt your replacement cycle to them.

Please note: Before using our products with new or untested media, or for applications that are not clearly indicated in the product information, written advice must be obtained from a specialist dealer or a Semperit application engineer. For safety reasons, all products must be inspected regularly for operational safety and replaced in the event of any damage (especially of the cover) or unusual signs of wear and tear. All products must be stored, handled, and maintained in accordance with all our respective instructions and DIN 7716:1982. Notwithstanding the above listed temperature range the maximum surface temperature of the SemperShield hose cover must not exceed 120°C. The information in our catalogue as well as each individual datasheet is subject to change at any time without notice since we are constantly developing and improving our products and due to constant technical developments after the latest release date of the catalogue and/or individual datasheets. In order to always have the latest product and safety information make sure you visit our website (hoses.semperitgroup.com) regularly or contact one of our specialist dealers or a Semperit application engineer. All contracts concluded with us are exclusively subject to our general terms and conditions (available at hoses.semperitgroup.com).

Important notice: Our catalogue and any individual datasheet have been prepared with great care in order to provide you with all the information you need. The information contained therein is based on the state-of-the-art industrial technology and many years of experience and testing; whenever indicated for a certain product, we also confirm conformity with the resistance requirements of the media indicated in the product catalogue. However, the individual conditions of storage, maintenance and use decisively affect the safe and durable use of each product. The quality and safety of our products as indicated in the catalogue or individual datasheets are therefore strictly subject to the continuous observance of all specifications and restrictions in our written product information, applicable laws and standards. We reject any liability for safety issues or other consequences due to improper product choice, maintenance, or handling (e.g. squashing, rupturing, stretching or filling with non-approved media). Our products must not be used in airplanes or other aerial vehicles under any circumstance. Unless specified otherwise, all hoses are manufactured according to EN853, 856, 857 and SAE J 517. Our products are not designated for the sale to the general public and do not fulfill the conditions for "GS-certification" (voluntary certification related to tested safety).



WARNING: Products shown in this catalogue can expose you to chemicals including 2mercaptobenzothiazole (2-MBT), Benzo[a]pyren and Diisononylphthalate, which are known to the State of California to cause cancer, birth defects, or other reproductive harm. For more information, go to www.P65Warnings.ca.gov. This warning is as of the date of publication of the catalogue.

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IMPORTANT INFORMATION:

Incorrect product selection or improper installation of hoses can result in damage to or failure of the hose, (often serious) material damage, and personal injury. Particularly in applications with high operational pressures, non-compliance with specifications can result in serious risk of injury! Therefore, in case of doubt, please seek specific advice!

COMPANY WITH
MANAGEMENT SYSTEM
CERTIFIED BY DNV
ISO 9001-ISO 14001
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