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hydraulics  
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process control  
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# Hose Catalogue - 2016

Fluid Connectors, India.



ENGINEERING YOUR SUCCESS.

## 421SN

### Hydraulic

EN 853 1SN / SAE 100 R1 AT



| #<br>Part Number | Hose I.D. |      | Hose R.O.D.<br>mm | Hose O.D.<br>mm | Working Pressure |      | Minimum Bend Radius |     | Approx. Weight |      |
|------------------|-----------|------|-------------------|-----------------|------------------|------|---------------------|-----|----------------|------|
|                  | inch      | mm   |                   |                 | psi              | MPa  | inch                | mm  | lbs/ft         | kg/m |
| 421SNMSHA-4      | 1/4       | 6.4  | 11.1              | 13.4            | 3265             | 22.5 | 2.0                 | 50  | 0.15           | 0.23 |
| 421SNMSHA-5      | 5/16      | 7.9  | 12.7              | 15.0            | 3120             | 21.5 | 2.3                 | 58  | 0.18           | 0.27 |
| 421SNMSHA-6      | 3/8       | 9.5  | 15.1              | 17.4            | 2610             | 18.0 | 2.5                 | 65  | 0.22           | 0.33 |
| 421SNMSHA-8      | 1/2       | 12.7 | 18.2              | 20.7            | 2320             | 16.0 | 3.5                 | 90  | 0.30           | 0.44 |
| 421SNMSHA-10     | 5/8       | 15.9 | 21.4              | 23.9            | 1890             | 13.0 | 4.0                 | 100 | 0.34           | 0.50 |
| 421SNMSHA-12     | 3/4       | 19.0 | 25.4              | 27.8            | 1525             | 10.5 | 4.8                 | 120 | 0.46           | 0.68 |
| 421SNMSHA-16     | 1         | 25.4 | 33.3              | 35.8            | 1275             | 8.8  | 6.0                 | 150 | 0.63           | 0.94 |
| 421SNMSHA-20     | 1-1/4     | 31.8 | 41.8              | 44.8            | 915              | 6.3  | 16.5                | 420 | 0.97           | 1.44 |
| 421SNMSHA-24     | 1-1/2     | 38.1 | 46.4              | 51.0            | 725              | 5.0  | 20.0                | 500 | 1.07           | 1.59 |
| 421SNMSHA-32     | 2         | 50.8 | 59.5              | 64.5            | 580              | 4.0  | 25.0                | 630 | 1.51           | 2.25 |

\* Impulse test conducted with Parker Fittings.

" All hoses upto-16 have passed 1,50,000 cycles impulse test at half the Min. bend radius "

**Application :** Petroleum base hydraulic fluids and lubricating oils.

**Inner Tube :** Synthetic Rubber  
**Reinforcement :** One braid steel wire.

**Cover :** Synthetic Rubber.

**Temp. Range :** -40°F to +212°F (-40°C to +100°C)

**Impulse Cycles :**

Specified - 1,50,000 cycles.

Tested upto - 3,00,000 cycles.

## 421SNPM

### Hydraulic



| #<br>Part Number | Hose I.D. |       | Hose R.O.D.<br>mm | Hose O.D.<br>mm | Working Pressure |     | Minimum Bend Radius |      | Approx. Weight |      |
|------------------|-----------|-------|-------------------|-----------------|------------------|-----|---------------------|------|----------------|------|
|                  | inch      | mm    |                   |                 | psi              | MPa | inch                | mm   | lbs/ft         | kg/m |
| 421SNPM-38PM     | 2-3/8     | 60.3  | 69.0              | 75.0            | 362              | 2.5 | 30.0                | 762  | 1.73           | 2.58 |
| 421SNPM-40PM     | 2-1/2     | 63.5  | 73.0              | 77.5            | 362              | 2.5 | 30.0                | 762  | 1.86           | 2.77 |
| 421SNPM-48PM     | 3         | 76.2  | 86.4              | 94.4            | 290              | 2.0 | 36.0                | 915  | 2.59           | 3.85 |
| 421SNPM-56PM     | 3-1/2     | 88.9  | 98.5              | 105.5           | 220              | 1.5 | 42.0                | 1067 | 2.89           | 4.30 |
| 421SNPM-64PM     | 4         | 101.6 | 110.0             | 117.0           | 145              | 1.0 | 43.5                | 1105 | 3.09           | 4.60 |

Not cover under HS/SAE/EN

**Application :** Petroleum base hydraulic fluids and lubricating oils.

**Inner Tube :** Synthetic Rubber  
**Reinforcement :** One braid steel wire.

**Cover :** Synthetic Rubber.

**Temp. Range :** -40°F to 212°F (-40°C to +100°C)

## 421SNPMHITEMP - High Temperature

### Hydraulic

EXCEEDS EN 853 1SN / SAE 100R1AT



| #<br>Part Number   | Hose I.D. |      | Hose R.O.D.<br>mm | Hose O.D.<br>mm | Working Pressure |      | Minimum Bend Radius |     | Approx. Weight |      |
|--------------------|-----------|------|-------------------|-----------------|------------------|------|---------------------|-----|----------------|------|
|                    | inch      | mm   |                   |                 | psi              | MPa  | inch                | mm  | lbs/ft         | kg/m |
| 421SNPMHITEMP-4PM  | 1/4       | 6.4  | 11.1              | 13.4            | 3265             | 22.5 | 4.0                 | 100 | 0.15           | 0.23 |
| 421SNPMHITEMP-5PM  | 5/16      | 7.9  | 12.7              | 15.0            | 3120             | 21.5 | 4.5                 | 115 | 0.18           | 0.27 |
| 421SNPMHITEMP-6PM  | 3/8       | 9.5  | 15.1              | 17.4            | 2610             | 18.0 | 5.0                 | 130 | 0.22           | 0.33 |
| 421SNPMHITEMP-8PM  | 1/2       | 12.7 | 18.2              | 20.7            | 2320             | 16.0 | 7.0                 | 180 | 0.30           | 0.44 |
| 421SNPMHITEMP-10PM | 5/8       | 15.9 | 21.4              | 23.9            | 1890             | 13.0 | 8.0                 | 200 | 0.34           | 0.50 |
| 421SNPMHITEMP-12PM | 3/4       | 19.0 | 25.4              | 27.8            | 1525             | 10.5 | 9.5                 | 240 | 0.46           | 0.68 |
| 421SNPMHITEMP-16PM | 1         | 25.4 | 33.3              | 35.5            | 1275             | 8.8  | 12.0                | 300 | 0.63           | 0.94 |
| 421SNPMHITEMP-20PM | 1-1/4     | 31.8 | 40.5              | 43.5            | 915              | 6.3  | 16.5                | 420 | 0.97           | 1.44 |
| 421SNPMHITEMP-24PM | 1-1/2     | 38.1 | 46.4              | 50.4            | 725              | 5.0  | 20.0                | 500 | 1.07           | 1.59 |
| 421SNPMHITEMP-32PM | 2         | 50.8 | 59.5              | 63.5            | 580              | 4.0  | 25.0                | 630 | 1.51           | 2.25 |

**Application :** Petroleum base hydraulic fluids and lubricating oils.

**Inner Tube :** Synthetic Rubber  
**Reinforcement :** One braid steel wire.

**Cover :** Synthetic Rubber.

**Temp. Range :** -40°F to +275°F (-40°C to +135°C)

## 301SN

### Hydraulic

EN 853 2SN / SAE 100 R2AT



| #<br>Part<br>Number | Hose I.D. |      | Hose<br>R.O.D | Hose<br>O.D | Working<br>Pressure |      | Minimum<br>Bend Radius |     | Approx.<br>Weight |      |
|---------------------|-----------|------|---------------|-------------|---------------------|------|------------------------|-----|-------------------|------|
|                     | inch      | mm   | mm            | mm          | psi                 | MPa  | inch                   | mm  | lbs/ft            | kg/m |
| 301SNMSHA-4         | 1/4       | 6.4  | 12.9          | 15.0        | 5800                | 40.0 | 2.0                    | 50  | 0.26              | 0.39 |
| 301SNMSHA-5         | 5/16      | 7.9  | 14.3          | 16.6        | 5100                | 35.0 | 2.2                    | 58  | 0.29              | 0.43 |
| 301SNMSHA-6         | 3/8       | 9.5  | 16.9          | 19.0        | 4800                | 33.0 | 2.5                    | 65  | 0.36              | 0.53 |
| 301SNMSHA-8         | 1/2       | 12.7 | 19.8          | 22.3        | 4000                | 27.5 | 3.5                    | 90  | 0.42              | 0.63 |
| 301SNMSHA-10        | 5/8       | 15.9 | 23.0          | 25.5        | 3600                | 25.0 | 4.0                    | 100 | 0.50              | 0.74 |
| 301SNMSHA-12        | 3/4       | 19.0 | 27.0          | 29.4        | 3100                | 21.5 | 4.8                    | 120 | 0.64              | 0.95 |
| 301SNMSHA-16        | 1         | 25.4 | 34.9          | 38.1        | 2400                | 16.5 | 6.0                    | 150 | 0.91              | 1.35 |
| 301SNMSHA-20        | 1-1/4     | 31.8 | 44.0          | 47.1        | 1800                | 12.5 | 16.5                   | 420 | 1.52              | 2.26 |
| 301SNMSHA-24        | 1-1/2     | 38.1 | 50.8          | 54.5        | 1300                | 9.0  | 20.0                   | 500 | 1.58              | 2.35 |
| 301SNMSHA-32        | 2         | 50.8 | 63.5          | 67.2        | 1160                | 8.0  | 25.0                   | 630 | 1.96              | 2.92 |

\* Impulse test conducted with Parker Fittings.

" All hoses upto-16 have passed 2,00,000 cycles impulse test at half the Min. bend radius "

**Application :** Petroleum base hydraulic fluids and lubricating oils.

**Inner Tube :** Synthetic rubber.

**Reinforcement :** Two braid steel wire.

**Cover :** Synthetic rubber

**Temp. Range:** -40°F to +212°F (-40°C to +100°C).

**Impulse Cycles :**

Specified - 2,00,000 cycles.

Tested upto - 4,00,000 cycles.

## 301SNPM

### Hydraulic



| #<br>Part<br>Number | Hose I.D. |       | Hose<br>R.O.D | Hose<br>O.D | Working<br>Pressure |     | Minimum<br>Bend Radius |      | Approx.<br>Weight |      |
|---------------------|-----------|-------|---------------|-------------|---------------------|-----|------------------------|------|-------------------|------|
|                     | inch      | mm    | mm            | mm          | psi                 | MPa | inch                   | mm   | lbs/ft            | kg/m |
| 301SNPM-38PM        | 2-3/8     | 60.3  | 71.5          | 75.8        | 1015                | 7.0 | 30.0                   | 762  | 2.29              | 3.41 |
| 301SNPM-40PM        | 2-1/2     | 63.5  | 76.2          | 82.5        | 1000                | 6.9 | 30.0                   | 762  | 2.81              | 4.18 |
| 301SNPM-48PM        | 3         | 76.2  | 89.4          | 96.0        | 650                 | 4.5 | 36.0                   | 915  | 3.19              | 4.75 |
| 301SNPM-56PM        | 3-1/2     | 88.9  | 101.2         | 107.5       | 400                 | 2.8 | 42.0                   | 1067 | 3.49              | 5.20 |
| 301SNPM-64PM        | 4         | 101.6 | 113.2         | 118.5       | 365                 | 2.5 | 43.5                   | 1105 | 3.56              | 5.30 |

Not cover under HS/SAE/EN

**Application :** Petroleum base hydraulic fluids and lubricating oils.

**Inner Tube :** Synthetic rubber.

**Reinforcement :** Two braid steel wire.

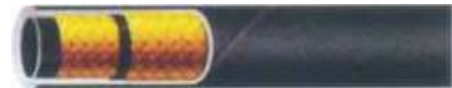
**Cover :** Synthetic rubber

**Temp. Range:** -40°F to +212°F (-40°C to +100°C).

## 301SNPMHITEMP - High Temperature

### Hydraulic

EXCEEDS EN 853 2SN / SAE 100R2AT



| #<br>Part<br>Number | Hose I.D. |      | Hose<br>R.O.D | Hose<br>O.D | Working<br>Pressure |      | Minimum<br>Bend Radius |     | Approx.<br>Weight |      |
|---------------------|-----------|------|---------------|-------------|---------------------|------|------------------------|-----|-------------------|------|
|                     | inch      | mm   | mm            | mm          | psi                 | MPa  | inch                   | mm  | lbs/ft            | kg/m |
| 301SNPMHITEMP-4PM   | 1/4       | 6.4  | 12.9          | 15.0        | 5800                | 40.0 | 4.0                    | 100 | 0.26              | 0.39 |
| 301SNPMHITEMP-5PM   | 5/16      | 7.9  | 14.3          | 16.6        | 5100                | 35.0 | 4.5                    | 115 | 0.29              | 0.43 |
| 301SNPMHITEMP-6PM   | 3/8       | 9.5  | 16.9          | 19.0        | 4800                | 33.0 | 5.0                    | 130 | 0.36              | 0.53 |
| 301SNPMHITEMP-8PM   | 1/2       | 12.7 | 19.8          | 22.3        | 4000                | 27.5 | 7.0                    | 180 | 0.42              | 0.63 |
| 301SNPMHITEMP-10PM  | 5/8       | 15.9 | 23.0          | 25.5        | 3600                | 25.0 | 8.0                    | 200 | 0.50              | 0.74 |
| 301SNPMHITEMP-12PM  | 3/4       | 19.0 | 27.0          | 29.4        | 3100                | 21.5 | 9.5                    | 240 | 0.64              | 0.95 |
| 301SNPMHITEMP-16PM  | 1         | 25.4 | 34.9          | 38.1        | 2400                | 16.5 | 12.0                   | 300 | 0.91              | 1.35 |
| 301SNPMHITEMP-20PM  | 1-1/4     | 31.8 | 40.5          | 43.5        | 1800                | 12.5 | 16.5                   | 210 | 1.09              | 1.62 |
| 301SNPMHITEMP-24PM  | 1-1/2     | 38.1 | 46.5          | 50.0        | 1300                | 9.0  | 20.0                   | 250 | 1.33              | 1.98 |
| 301SNPMHITEMP-32PM  | 2         | 50.8 | 60.3          | 64.0        | 1160                | 8.0  | 25.0                   | 300 | 1.84              | 2.74 |

**Application :** Petroleum base hydraulic fluids and lubricating oils.

**Inner Tube :** Synthetic Rubber

**Reinforcement :** Two braid steel wire.

**Cover :** Synthetic Rubber

**Temp. Range :** -40°F to +275°F (-40°C to +135°C)

## SAE 100R4

### Hydraulic

#### Suction and Return line



| #<br>Part Number | Hose I.D. |      | Hose O.D. | Working Pressure |     | Minimum Bend Radius |     | Approx. Weight |      |
|------------------|-----------|------|-----------|------------------|-----|---------------------|-----|----------------|------|
|                  | inch      | mm   | mm        | psi              | MPa | inch                | mm  | lbs/ft         | kg/m |
| 881PM-12PM       | 3/4       | 19.0 | 29.0      | 305              | 2.1 | 1.6                 | 40  | 0.32           | 0.49 |
| 881PM-16PM       | 1         | 25.4 | 35.0      | 250              | 1.7 | 2.2                 | 55  | 0.42           | 0.62 |
| 881PM-20PM       | 1-1/4     | 31.8 | 42.0      | 205              | 1.4 | 2.8                 | 70  | 0.53           | 0.79 |
| 881PM-24PM       | 1-1/2     | 38.0 | 50.0      | 145              | 1.0 | 3.2                 | 80  | 0.75           | 1.12 |
|                  | 2         | 50.8 | 62.0      | 145              | 1.0 | 3.9                 | 100 | 0.89           | 1.33 |
|                  | 2-1/2     | 63.5 | 75.0      | 145              | 1.0 | 6.7                 | 170 | -              | -    |
| 881PM-48PM       | 3         | 76.2 | 88.0      | 145              | 1.0 | 8.9                 | 225 | -              | -    |

**Application :** Petroleum base hydraulic fluids and lubricating oils.

**Inner Tube :** Synthetic rubber.

**Reinforcement :** Multiple layers of fiber braid and one helical wire.

**Cover :** Synthetic rubber.

**Temp. Range:** -40° F to +212° F (-40°C to +100°C)

## EN 854 R6 / SAE100R6

### Hydraulic



| #<br>Part Number | Hose I.D. |      | Hose O.D. | Working Pressure |     | Minimum Bend Radius |     | Approx. Weight |      |
|------------------|-----------|------|-----------|------------------|-----|---------------------|-----|----------------|------|
|                  | inch      | mm   | mm        | psi              | MPa | inch                | mm  | lbs/ft         | kg/m |
| SAE100R6PM-4PM   | 1/4       | 6.4  | 12.7      | 400              | 2.8 | 2.5                 | 64  | 0.09           | 0.13 |
| SAE100R6PM-5PM   | 5/16      | 7.9  | 14.3      | 400              | 2.8 | 3.0                 | 76  | 0.11           | 0.16 |
| SAE100R6PM-6PM   | 3/8       | 9.5  | 15.9      | 400              | 2.8 | 3.0                 | 76  | 0.12           | 0.18 |
| SAE100R6PM-8PM   | 1/2       | 12.7 | 19.8      | 400              | 2.8 | 4.0                 | 102 | 0.17           | 0.25 |
| SAE100R6PM-10PM  | 5/8       | 15.9 | 23.0      | 350              | 2.4 | 5.0                 | 127 | 0.20           | 0.30 |
| SAE100R6PM-12PM  | 3/4       | 19.0 | 26.6      | 300              | 2.1 | 6.0                 | 152 | 0.23           | 0.34 |
| SAE100R6PM-16PM  | 1         | 25.4 | 32.5      | 190              | 1.3 | 9.1                 | 230 | 0.31           | 0.46 |

**Application :** Low pressure hydraulic oils.

**Inner Tube :** Synthetic Rubber

**Reinforcement :** One synthetic textile braid.

**Cover :** Synthetic Rubber.

**Temp. Range :** -40°F to +212°F. (-40°C to +100°C.)

## 1TE

### EN 854



| #<br>Part Number | Hose I.D. |      | Hose O.D. | Working Pressure |     | Minimum Bend Radius |     |
|------------------|-----------|------|-----------|------------------|-----|---------------------|-----|
|                  | inch      | mm   | mm        | psi              | MPa | inch                | mm  |
| 1TEPM-4PM        | 1/4       | 6.0  | 12.4      | 360              | 2.5 | 1.8                 | 45  |
| 1TEPM-5PM        | 5/16      | 8.0  | 13.9      | 290              | 2.0 | 2.6                 | 65  |
| 1TEPM-6PM        | 3/8       | 10.0 | 15.5      | 290              | 2.0 | 3.0                 | 75  |
| 1TEPM-8PM        | 1/2       | 12.0 | 18.7      | 230              | 1.6 | 3.5                 | 90  |
| 1TEPM-10PM       | 5/8       | 16.0 | 22.9      | 230              | 1.6 | 4.5                 | 115 |
| 1TEPM-12PM*      | 3/4       | 19.0 | 26.0      | 175              | 1.2 | 6.5                 | 165 |
| 1TEPM-16PM*      | 1         | 25.4 | 33.4      | 175              | 1.2 | 8.7                 | 220 |

**Application:** Low pressure hydraulics

**Construction**

**Inner tube:** Synthetic Rubber

**Reinforcement:** One synthetic textile braid

**Cover:** Synthetic Rubber

**Temp. Range:** -40°F to +212°F (-40°C to +100°C)

\* -12 & -16 not covered in EN854.