

## ● FCF-C シリーズ レベルスプリング付

## ・スマート真空パッド

## □ 特長

- ✓ 原点に自動復帰（最大首振角±21°）
- ✓ ボールとOリングによる優れた密閉構造
- ✓ 円錐形状スパイラルスプリングにより  
ロングストロークが可能
- ✓ 真空パッドのみの交換が簡単



## □ パッド特長

- ✓ 強力な吸着力と耐摩耗性
- ✓ 垂直・水平搬送の安定性に優れる
- ✓ 薄板を变形なしに搬送可能

## ▶ アプリケーション

- ・金属板
- ・自動車パネル
- ・プレス鋼板
- ・パネル
- ・電機製品
- ・曲面ガラス

## 品番表示

FCF60 - BJ - PU - L30 - 18F

①                      ②                      ③                      ④                      ⑤

## ① サイズ

FCF 30 - Ø30

FCF 40 - Ø40

FCF 50 - Ø50

## ● FCF 60 - Ø60

FCF 70 - Ø70

FCF 80 - Ø80

FCF 100 - Ø100

FCF 125 - Ø125

## ② ボールジョイント

## ● BJ - ボールジョイント付

SM - ボールジョイントなし

## ③ 材質

N - NBR

S - シリコン

## ● PU - ポリウレタン

## ④ ストローク

L20 - 20mm

## ● L30 - 30mm

L50 - 50mm

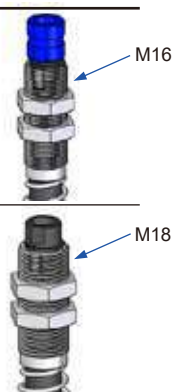
L70 - 70mm

L20S - 20mm

L30S - 30mm

L50S - 50mm

L70S - 70mm



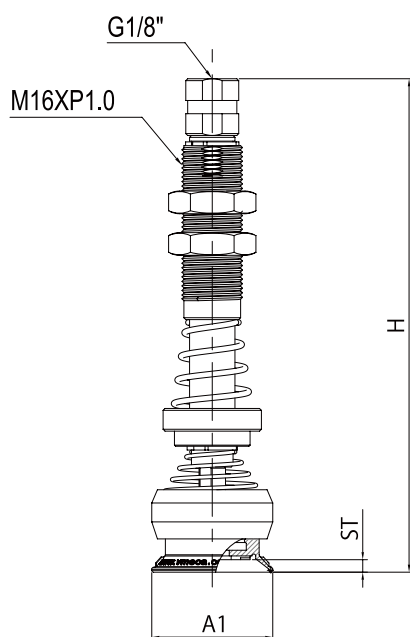
## ⑤ ネジ径

## ● 18F - G1/8" メネジ

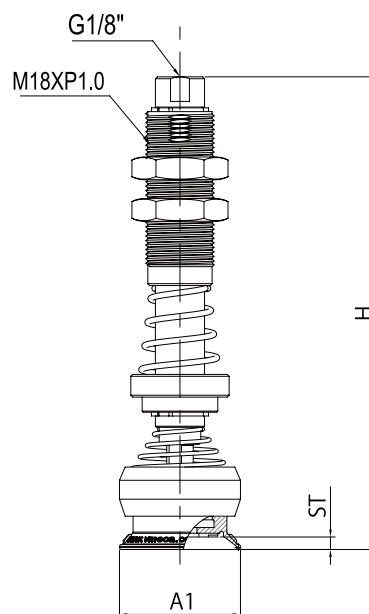
## 真空度別 最大搬送力

| 品番      | パッド容積<br>(cm <sup>3</sup> ) | 垂直搬送力(kg) |         |         | 水平搬送力(kg) |         |         |
|---------|-----------------------------|-----------|---------|---------|-----------|---------|---------|
|         |                             | -20 kPa   | -60 kPa | -90 kPa | -20 kPa   | -60 kPa | -90 kPa |
| FCF 30  | 2                           | 2         | 4.6     | 6.4     | 0.8       | 2       | 2.9     |
| FCF 40  | 4.4                         | 2.9       | 6.9     | 9.9     | 2.1       | 5       | 7.2     |
| FCF 50  | 8                           | 4.2       | 10.8    | 15.4    | 3.7       | 6.7     | 8.9     |
| FCF 60  | 14.6                        | 5.6       | 15.2    | 22.3    | 5.5       | 13.3    | 16.7    |
| FCF 70  | 20.7                        | 7.6       | 19.6    | 28.2    | 6.3       | 15.8    | 20.1    |
| FCF 80  | 36                          | 10.3      | 25.9    | 34.4    | 6.7       | 17.7    | 23.8    |
| FCF 100 | 58                          | 14.7      | 37.1    | 50.6    | 13.6      | 35.4    | 43.7    |
| FCF 125 | 115                         | 19.4      | 44.5    | 57.9    | 19.1      | 42.5    | 64.9    |

## 寸法 (ボールジョイント付)



▲L20・L30・L50・L70

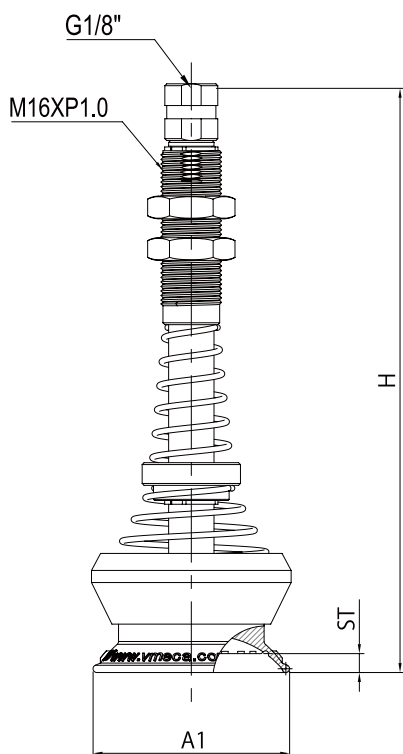


▲L20S・L30S・L50S・L70S

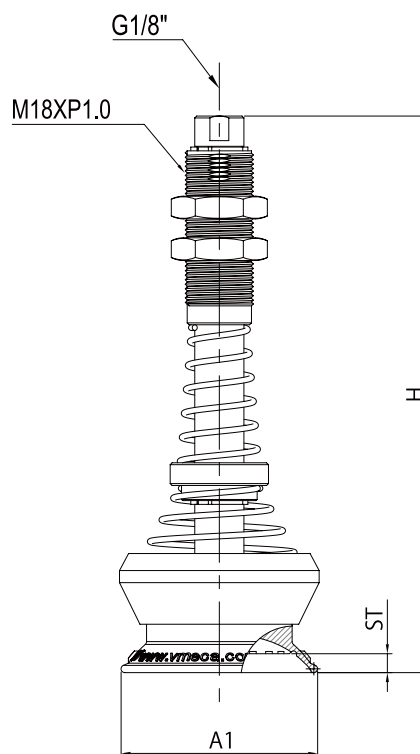
[mm]

| 品番         |      | A1 | ST  | H     |       |
|------------|------|----|-----|-------|-------|
|            |      |    |     | (L)   | (L・S) |
| FCF30 - BJ | L20  | 32 | 3.3 | 130.5 | 125   |
| FCF40 - BJ | L20S | 42 | 4   | 132.2 | 126.7 |
| FCF30 - BJ | L30  | 32 | 3.3 | 143.5 | 138   |
| FCF40 - BJ | L30S | 42 | 4   | 145.2 | 139.7 |
| FCF30 - BJ | L50  | 32 | 3.3 | 169.5 | 164   |
| FCF40 - BJ | L50S | 42 | 4   | 171.2 | 165.7 |
| FCF30 - BJ | L70  | 32 | 3.3 | 195.5 | 190   |
| FCF40 - BJ | L70S | 42 | 4   | 197.2 | 191.7 |

寸法（ボールジョイント付）



▲L20・L30・L50・L70

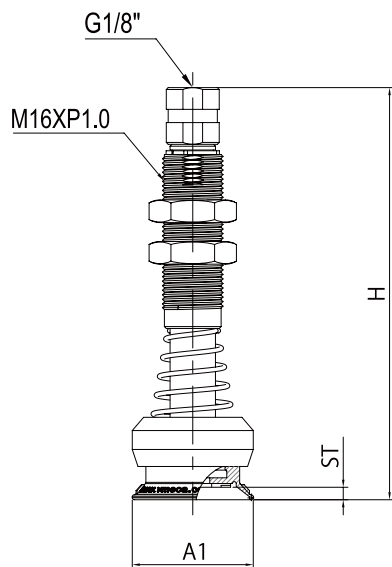


▲L20S・L30S・L50S・L70S

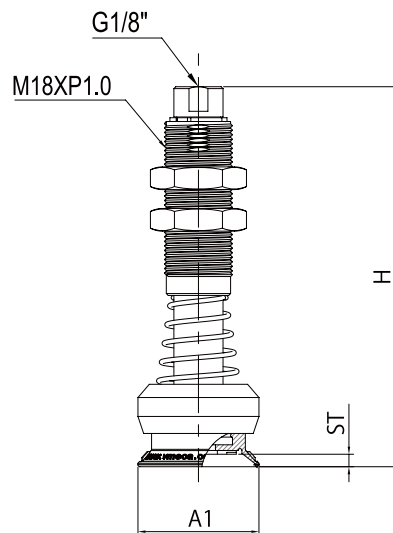
[mm]

| 品番          |             | A1   | ST  | H     |        |
|-------------|-------------|------|-----|-------|--------|
|             |             |      |     | (L)   | (L・・S) |
| FCF50 - BJ  | L20<br>L20S | 52   | 5   | 143.7 | 135.2  |
| FCF60 - BJ  |             | 62   | 6   | 146.7 | 138.2  |
| FCF70 - BJ  |             | 72   | 6.5 | 146.7 | 138.2  |
| FCF80 - BJ  |             | 82.5 | 7.6 | 150.2 | 141.7  |
| FCF100 - BJ |             | 104  | 9.5 | 150.2 | 141.7  |
| FCF125 - BJ |             | 128  | 13  | 156.7 | 148.2  |
| FCF50 - BJ  | L30<br>L30S | 52   | 5   | 155.7 | 147.2  |
| FCF60 - BJ  |             | 62   | 6   | 158.7 | 150.2  |
| FCF70 - BJ  |             | 72   | 6.5 | 158.7 | 150.2  |
| FCF80 - BJ  |             | 82.5 | 7.6 | 162.2 | 153.7  |
| FCF100 - BJ |             | 104  | 9.5 | 162.2 | 153.7  |
| FCF125 - BJ |             | 128  | 13  | 168.7 | 160.2  |
| FCF50 - BJ  | L50<br>L50S | 52   | 5   | 181.7 | 173.2  |
| FCF60 - BJ  |             | 62   | 6   | 184.7 | 176.2  |
| FCF70 - BJ  |             | 72   | 6.5 | 184.7 | 176.2  |
| FCF80 - BJ  |             | 82.5 | 7.6 | 188.2 | 179.7  |
| FCF100 - BJ |             | 104  | 9.5 | 188.2 | 179.7  |
| FCF125 - BJ |             | 128  | 13  | 194.7 | 186.2  |
| FCF50 - BJ  | L70<br>L70S | 52   | 5   | 207.7 | 199.2  |
| FCF60 - BJ  |             | 62   | 6   | 210.7 | 202.2  |
| FCF70 - BJ  |             | 72   | 6.5 | 210.7 | 202.2  |
| FCF80 - BJ  |             | 82.5 | 7.6 | 214.2 | 205.7  |
| FCF100 - BJ |             | 104  | 9.5 | 214.2 | 205.7  |
| FCF125 - BJ |             | 128  | 13  | 220.7 | 212.2  |

# 寸法（ボールジョイントなし）



▲ L20・L30・L50・L70

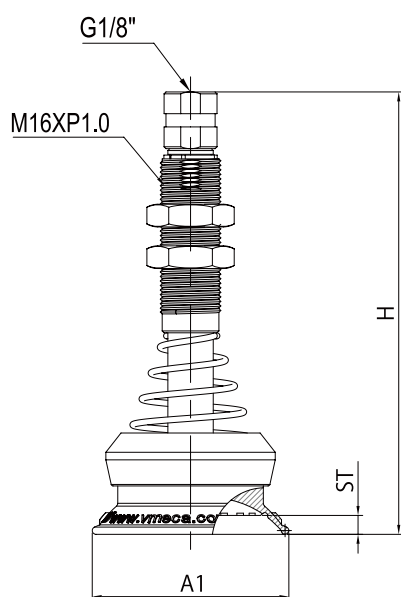


▲ L20S・L30S・L50S・L70S

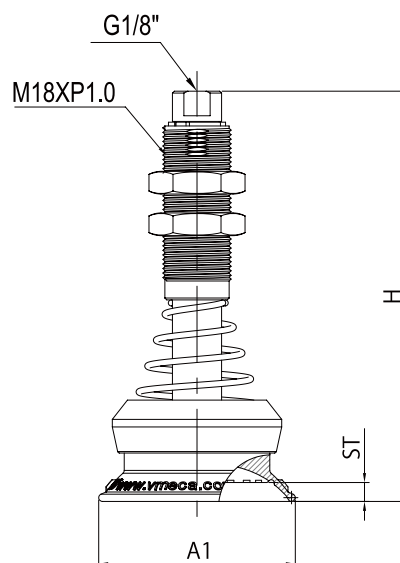
[mm]

| 品番         |      | A1 | ST  | H     |       |
|------------|------|----|-----|-------|-------|
|            |      |    |     | (L)   | (L・S) |
| FCF30 - SM | L20  | 32 | 3.3 | 109   | 100.5 |
| FCF40 - SM | L20S | 42 | 4   | 110.7 | 102.2 |
| FCF30 - SM | L30  | 32 | 3.3 | 123.5 | 115   |
| FCF40 - SM | L30S | 42 | 4   | 125.2 | 116.7 |
| FCF30 - SM | L50  | 32 | 3.3 | 149.5 | 141   |
| FCF40 - SM | L50S | 42 | 4   | 151.2 | 142.7 |
| FCF30 - SM | L70  | 32 | 3.3 | 177.5 | 167.9 |
| FCF40 - SM | L70S | 42 | 4   | 179.2 | 169.6 |

寸法（ボールジョイントなし）



▲L20・L30・L50・L70

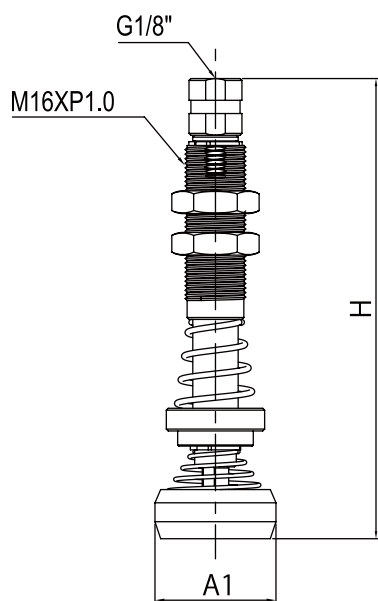


▲L20S・L30S・L50S・L70S

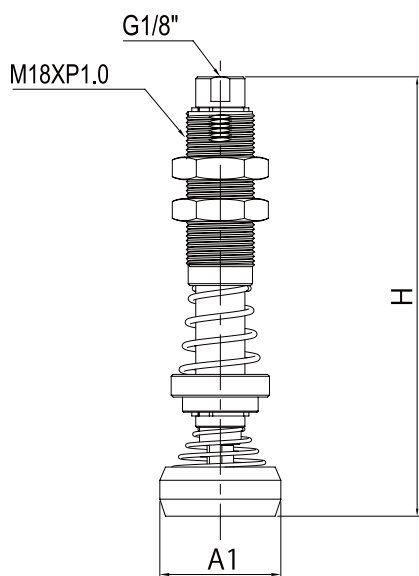
[mm]

| 品番          |             | A1   | ST  | H     |        |
|-------------|-------------|------|-----|-------|--------|
|             |             |      |     | (L)   | (L・・S) |
| FCF50 - SM  | L20<br>L20S | 52   | 5   | 117.7 | 109.2  |
| FCF60 - SM  |             | 62   | 6   | 120.7 | 112.2  |
| FCF70 - SM  |             | 72   | 6.5 | 120.7 | 112.2  |
| FCF80 - SM  |             | 82.5 | 7.6 | 124.2 | 115.7  |
| FCF100 - SM |             | 104  | 9.5 | 124.2 | 115.7  |
| FCF125 - SM |             | 128  | 13  | 130.7 | 122.2  |
| FCF50 - SM  | L30<br>L30S | 52   | 5   | 132.2 | 123.7  |
| FCF60 - SM  |             | 62   | 6   | 135.2 | 126.7  |
| FCF70 - SM  |             | 72   | 6.5 | 135.2 | 126.7  |
| FCF80 - SM  |             | 82.5 | 7.6 | 138.7 | 130.2  |
| FCF100 - SM |             | 104  | 9.5 | 138.7 | 130.2  |
| FCF125 - SM |             | 128  | 13  | 145.2 | 136.7  |
| FCF50 - SM  | L50<br>L50S | 52   | 5   | 158.2 | 149.7  |
| FCF60 - SM  |             | 62   | 6   | 161.2 | 152.7  |
| FCF70 - SM  |             | 72   | 6.5 | 161.2 | 152.7  |
| FCF80 - SM  |             | 82.5 | 7.6 | 164.7 | 156.2  |
| FCF100 - SM |             | 104  | 9.5 | 164.7 | 156.2  |
| FCF125 - SM |             | 128  | 13  | 171.2 | 162.7  |
| FCF50 - SM  | L70<br>L70S | 52   | 5   | 186.2 | 176.6  |
| FCF60 - SM  |             | 62   | 6   | 189.2 | 179.6  |
| FCF70 - SM  |             | 72   | 6.5 | 189.2 | 179.6  |
| FCF80 - SM  |             | 82.5 | 7.6 | 192.7 | 183.1  |
| FCF100 - SM |             | 104  | 9.5 | 192.7 | 183.1  |
| FCF125 - SM |             | 128  | 13  | 199.2 | 189.6  |

# 寸法 (パッドなし)



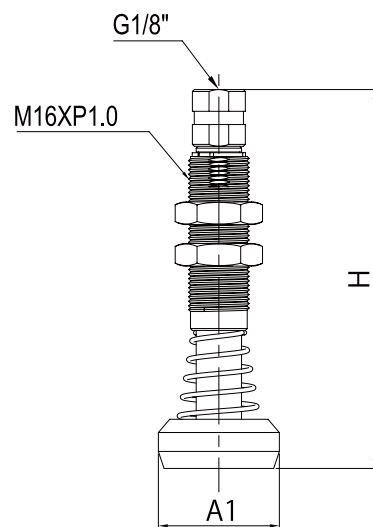
▲L20・L30・L50・L70



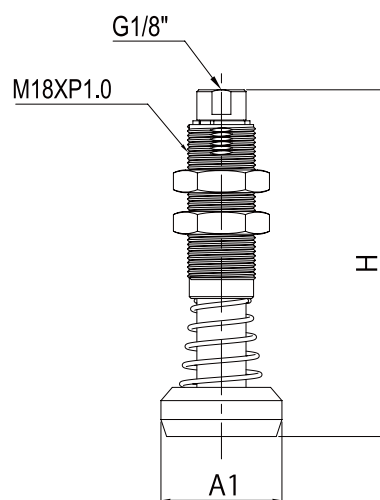
▲L20S・L30S・L50S・L70S

## ● ボールジョイント付 [mm]

| 品番            | A1   | H     |       |
|---------------|------|-------|-------|
|               |      | (L)   | (L・S) |
| BJ02-L20/L20S | 32   | 121.7 | 116.2 |
| BJ02-L30/L30S |      | 134.7 | 129.2 |
| BJ02-L50/L50S |      | 160.7 | 155.2 |
| BJ02-L70/L70S |      | 186.7 | 181.2 |
| BJ03-L20/L20S | 51.8 | 130.9 | 122.4 |
| BJ03-L30/L30S |      | 143.9 | 134.4 |
| BJ03-L50/L50S |      | 169.9 | 160.4 |
| BJ03-L70/L70S |      | 195.9 | 186.4 |



▲L20・L30・L50・L70



▲L20S・L30S・L50S・L70S

## ● ボールジョイントなし [mm]

| 品番            | A1   | H     |       |
|---------------|------|-------|-------|
|               |      | (L)   | (L・S) |
| SM02-L20/L20S | 32   | 100.2 | 91.7  |
| SM02-L30/L30S |      | 114.7 | 106.2 |
| SM02-L50/L50S |      | 140.7 | 132.2 |
| SM02-L70/L70S |      | 168.7 | 159.2 |
| SM03-L20/L20S | 44.8 | 104.2 | 95.7  |
| SM03-L30/L30S |      | 118.7 | 110.2 |
| SM03-L50/L50S |      | 144.7 | 136.2 |
| SM03-L70/L70S |      | 172.7 | 163.2 |