

# Sample Cylinders

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# 05

Catalogue No. S-LOK Jan.2023

# Sample Cylinders

## Features

- Double-ended sample cylinder
- 304L, 316L stainless steel and alloy 400 available
- Working pressures up to 5000 psig (344 bar)
- Volume from 300 to 2250 cm<sup>3</sup>
- 1/8", 1/4" and 1/2" female NPT connections
- The body made of seamless tubing & pipe
- Cold formed female NPT thread provide greater strength
- Smooth internal surface without foreign particles

## Testing

- All double-ended cylinders are hydrostatically tested to at least 5/3 times the working pressure.
- CD18 cylinders are hydrostatically tested at 3050 psig (210bar)
- CD50 cylinders are hydrostatically tested at 8500 psig (586bar)

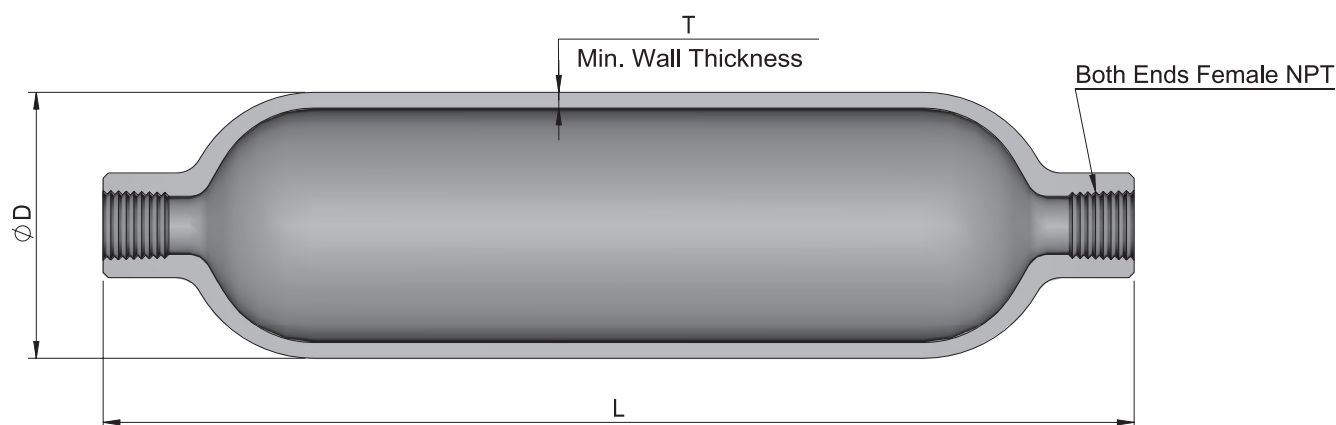


## Pressure - Temperature Ratings

| Material               | CD50<br>SS316L               | CD18<br>SS316L, SS304L | CD18<br>Alloy 400 |
|------------------------|------------------------------|------------------------|-------------------|
| Temperature, °C (°F)   | Working Pressure, psig (bar) |                        |                   |
| -200 (-325) ~ 37 (100) | 5000 (344)                   | 1800 (124)             | 1800 (124)        |
| 93 (200)               | 3960 (272)                   | 1360 (93.7)            | 1580 (108)        |
| 148 (300)              | 3570 (245)                   | 1230 (84.7)            | 1490 (102)        |
| 204 (400)              | 3290 (226)                   | 1130 (77.8)            | 1430 (98.5)       |
| 260 (500)              | 3060 (210)                   | 1050 (72.3)            | 1420 (97.8)       |
| 315 (600)              | 2920 (201)                   | 1000 (68.9)            | 1420 (97.8)       |
| 343 (650)              | 2870 (197)                   | 980 (67.5)             | 1420 (97.8)       |
| 371 (700)              | 2810 (193)                   | 970 (66.8)             | 1420 (97.8)       |
| 398 (750)              | 2750 (189)                   | 950 (65.4)             | 1410 (97.1)       |
| 426 (800)              | 2700 (186)                   | 930 (64.0)             | -                 |
| 454 (850)              | 2640 (181)                   | -                      | -                 |

## Ordering Information

| CD                                              | 18                                                           | 4N                                                                                                  | 300                                                                                                                                                                                     | S6L                                                                                                     |
|-------------------------------------------------|--------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|
| <b>• Sample Cylinder</b><br>- CD : Double-Ended | <b>• Pressure Rating</b><br>- 18 : 1800psi<br>- 50 : 5000psi | <b>• Connection Size</b><br>- 2N : 1/8"NPT Female<br>- 4N : 1/4"NPT Female<br>- 8N : 1/2"NPT Female | <b>• Internal Volume</b><br>- 300 : 300 cm <sup>3</sup><br>- 400 : 400 cm <sup>3</sup><br>- 500 : 500 cm <sup>3</sup><br>- 1000 : 1000 cm <sup>3</sup><br>- 2250 : 2250 cm <sup>3</sup> | <b>• Material</b><br>- S4L : Stainless Steel 304L<br>- S6L : Stainless Steel 316L<br>- A400 : Alloy 400 |



## Pressure – Temperature Ratings

| Ordering Number  | Pressure Rating<br>psig (bar) | Connection Size, in.<br>NPT | Internal Volume<br>cm <sup>3</sup> ±10% | Dimensions, mm (inch) |            |             | Weight<br>kg (lb) |
|------------------|-------------------------------|-----------------------------|-----------------------------------------|-----------------------|------------|-------------|-------------------|
|                  |                               |                             |                                         | D                     | L          | T           |                   |
| CD18-4N-300-S6L  | 1800 (124)                    | 1/4                         | 300                                     | 50.8 (2.00)           | 227 (8.94) | 2.4 (0.093) | 0.73 (1.6)        |
| CD18-4N-400-S6L  | 1800 (124)                    | 1/4                         | 400                                     | 50.8 (2.00)           | 290 (11.4) | 2.4 (0.093) | 0.95 (2.1)        |
| CD18-4N-500-S6L  | 1800 (124)                    | 1/4                         | 500                                     | 50.8 (2.00)           | 351 (13.8) | 2.4 (0.093) | 1.2 (2.6)         |
| CD18-4N-1000-S6L | 1800 (124)                    | 1/4                         | 1000                                    | 88.9 (3.50)           | 277 (10.9) | 4.6 (0.180) | 2.9 (6.5)         |
| CD18-8N-1000-S6L | 1800 (124)                    | 1/2                         | 1000                                    | 88.9 (3.50)           | 277 (10.9) | 4.6 (0.180) | 2.9 (6.5)         |
| CD18-4N-2250-S6L | 1800 (124)                    | 1/4                         | 2250                                    | 102 (4.00)            | 437 (17.2) | 5.2 (0.206) | 6.4 (14)          |
| CD18-8N-2250-S6L | 1800 (124)                    | 1/2                         | 2250                                    | 102 (4.00)            | 437 (17.2) | 5.2 (0.206) | 6.4 (14)          |
| CD50-4N-300-S6L  | 5000 (344)                    | 1/4                         | 300                                     | 48.2 (1.90)           | 368 (14.5) | 6.1 (0.240) | 2.5 (5.6)         |
| CD50-4N-500-S6L  | 5000 (344)                    | 1/4                         | 500                                     | 48.2 (1.90)           | 597 (23.5) | 6.1 (0.240) | 4.1 (9.1)         |
| CD18-4N-300-A400 | 1800 (124)                    | 1/4                         | 300                                     | 50.8 (2.00)           | 227 (8.94) | 2.4 (0.093) | 0.82 (1.8)        |
| CD18-4N-500-A400 | 1800 (124)                    | 1/4                         | 500                                     | 50.8 (2.00)           | 351 (13.8) | 2.4 (0.093) | 1.3 (2.9)         |

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