

# Pneumatic Cylinders

We professionally manufacture pneumatic cylinders, mainly includes DNC, SDNU, ESC, ESU, EMAL, SDA, SDVU, SQ2 and SX series cylinders. We are specialised in customising cylinders according to customer's applications.



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## DNC Series Cylinder (ISO 15552)



■ Bore:  $\Phi$  32-125mm



SDNC



SDNC-2S



SDNC-S



SDNC-2S-S

### Features

- Conforms to ISO:15552 (Previously ISO:6431)
- Configuration with or without magnet
- Available in single and double acting configuration
- Available in single and through rod configuration
- Wide variety of seals available (NBR, Polyurethane, Viton)
- Non corrosive stainless steel piston rod
- Extensive range of accessories make it possible to install the cylinder virtually anywhere
- Since low friction during operation hence a longer service life

### Order Code

**SDNC**

Series  
SDNC-Standard Double Acting Type

**50 X 50**

Size  
Bore X Stroke

**2S**

Piston Rod  
Blank: Single Rod  
2S: Through Rod

**S**

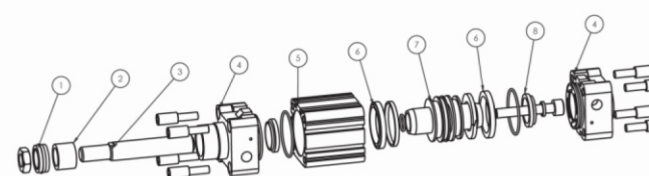
Magnet  
Blank: Without Magnet  
S: With Magnet

### Technical Parameter

|                                |                                                                                   |    |       |    |       |     |       |
|--------------------------------|-----------------------------------------------------------------------------------|----|-------|----|-------|-----|-------|
| Bore (mm)                      | 32                                                                                | 40 | 50    | 63 | 80    | 100 | 125   |
| Standard Stroke Length* (mm)   | 25, 50, 75, 100, 125, 150, 175, 200, 250, 300, 400, 500, 600, 700, 800, 900, 1000 |    |       |    |       |     |       |
| Action                         | Double Acting Type                                                                |    |       |    |       |     |       |
| Medium                         | Filtered And Lubricated Compressed Air                                            |    |       |    |       |     |       |
| Operating Pressure Range       | 1 - 10 Kgf/cm <sup>2</sup>                                                        |    |       |    |       |     |       |
| Proof Pressure                 | 15 Kgf/cm <sup>2</sup>                                                            |    |       |    |       |     |       |
| Ambient And Medium Temperature | -5 - 70°C                                                                         |    |       |    |       |     |       |
| Operating Piston Speed         | 50 - 800 mm/s                                                                     |    |       |    |       |     |       |
| Cushion Type                   | Adjustable Cushioning Both End                                                    |    |       |    |       |     |       |
| Cushion Stroke (mm)            | 20                                                                                |    | 22    |    | 32    |     | 42    |
| Port Size                      | G1/8"                                                                             |    | G1/4" |    | G3/8" |     | G1/2" |

\* Non standard or longer stroke cylinders available on request

### Components

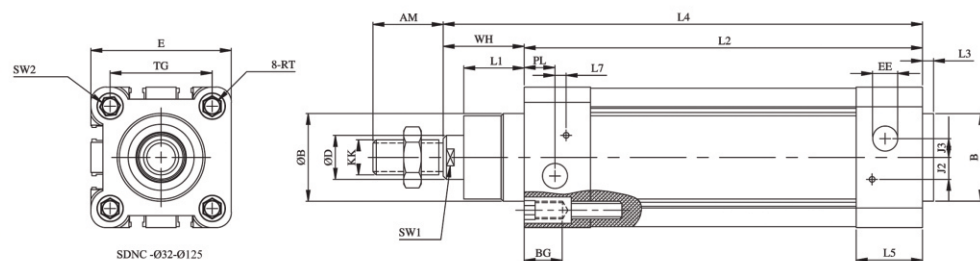


- ① Piston Rod Seal- PU (Polyurethane)
- ② Guide Bush- Brass
- ③ Piston Rod- EN 8 Chrome Plated Steel or stainless Steel
- ④ Front & rear cup- Anodised Aluminium Alloy
- ⑤ Barrel-Anodised Aluminium Alloy
- ⑥ Piston Seal- NBR, Viton or PU
- ⑦ Piston- Aluminium
- ⑧ Cushion Seal- NBR

## DNC Series Cylinder (ISO 15552)

### SDNC

#### Overall Dimension

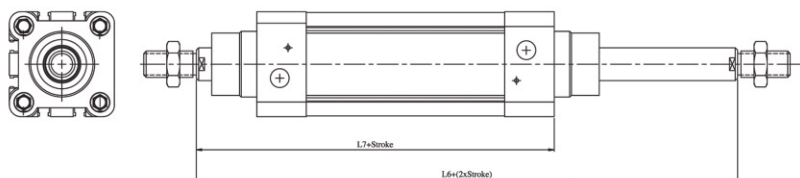


#### Dimension Table

| Bore | AM | B<br>Ød11 | D<br>ØF8 | BG | E   | EE               | J2   | J3   | KK       | L1   | L2    | L3 | L4  | L5   | PL   | L7   | TG   | RT  | SW1 | SW2 | WH |
|------|----|-----------|----------|----|-----|------------------|------|------|----------|------|-------|----|-----|------|------|------|------|-----|-----|-----|----|
| 32   | 22 | 30        | 12       | 16 | 45  | G <sub>1/8</sub> | 6    | 5.20 | M10X1.25 | 18   | 94    | 4  | 120 | 26   | 15   | 3.3  | 32.5 | M6  | 10  | 6   | 26 |
| 40   | 24 | 35        | 16       | 16 | 54  | G <sub>1/4</sub> | 8    | 6    | M12X1.25 | 20.5 | 105.5 | 4  | 135 | 29.8 | 14   | 3.6  | 38   | M6  | 13  | 6   | 30 |
| 50   | 32 | 40        | 20       | 17 | 64  | G <sub>1/4</sub> | 10   | 8.5  | M16X1.5  | 28   | 106   | 4  | 143 | 30   | 14   | 5.1  | 46.5 | M8  | 17  | 8   | 37 |
| 63   | 32 | 45        | 20       | 17 | 75  | G <sub>1/4</sub> | 12.4 | 10   | M16X1.5  | 28.5 | 121   | 4  | 158 | 35.6 | 17   | 6.6  | 56.5 | M8  | 17  | 8   | 37 |
| 80   | 40 | 45        | 25       | 17 | 93  | G <sub>1/4</sub> | 12.5 | 8    | M20X1.5  | 34.7 | 128   | 4  | 174 | 35.6 | 16.4 | 10.5 | 72   | M10 | 22  | 10  | 46 |
| 100  | 40 | 55        | 25       | 17 | 110 | G <sub>1/2</sub> | 11.8 | 10   | M20X1.5  | 38.2 | 138   | 4  | 189 | 38   | 18   | 8    | 89   | M10 | 22  | 10  | 51 |
| 125  | 54 | 60        | 32       | 22 | 134 | G <sub>1/2</sub> | 13   | 8    | M27X2    | 46   | 160   | 6  | 225 | 44.7 | 18   | 14   | 110  | M12 | 27  | 12  | 65 |

### SDNC-25

#### Overall Dimension

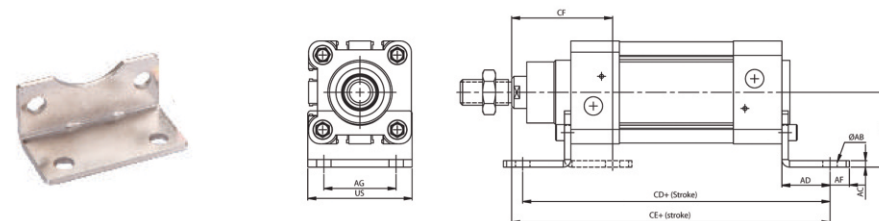


#### Dimension Table

| BORE | 32  | 40  | 50  | 63  | 80  | 100 | 125 |
|------|-----|-----|-----|-----|-----|-----|-----|
| L6   | 146 | 165 | 180 | 195 | 220 | 240 | 290 |
| L7   | 120 | 135 | 143 | 158 | 174 | 189 | 225 |

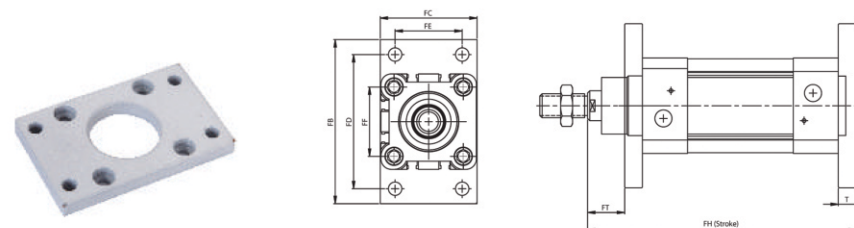
## DNC Series Cylinder Mounting

### LB-SDNC



| Model No.  | Bore | AB   | AC | AD | AE | CD  | AF  | AG | US  | CE  | CF  |
|------------|------|------|----|----|----|-----|-----|----|-----|-----|-----|
| LBSDNC-32  | 32   | 7    | 4  | 24 | 32 | 142 | 7.5 | 32 | 45  | 144 | 50  |
| LBSDNC-40  | 40   | 9    | 4  | 27 | 36 | 159 | 10  | 36 | 54  | 162 | 57  |
| LBSDNC-50  | 50   | 9    | 4  | 30 | 45 | 166 | 12  | 45 | 64  | 173 | 67  |
| LBSDNC-63  | 63   | 12   | 4  | 30 | 50 | 181 | 14  | 50 | 75  | 188 | 67  |
| LBSDNC-80  | 80   | 14.5 | 5  | 41 | 63 | 210 | 19  | 63 | 93  | 215 | 87  |
| LBSDNC-100 | 100  | 16.5 | 5  | 41 | 71 | 220 | 16  | 75 | 110 | 230 | 92  |
| LBSDNC-125 | 125  | 16.5 | 6  | 45 | 90 | 250 | 20  | 90 | 140 | 270 | 104 |

### FA-SDNC

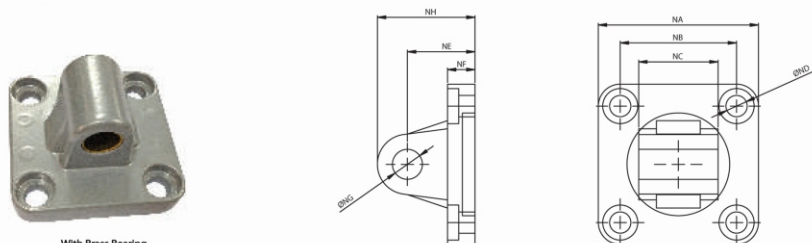


| Model No.  | Bore | FB  | FC  | FD  | FE | FF   | FG   | T  | FT | FH  |
|------------|------|-----|-----|-----|----|------|------|----|----|-----|
| FASDNC-32  | 32   | 72  | 47  | 58  | 33 | 32.5 | 7    | 10 | 16 | 130 |
| FASDNC-40  | 40   | 84  | 52  | 70  | 36 | 37   | 7    | 10 | 20 | 145 |
| FASDNC-50  | 50   | 104 | 65  | 86  | 47 | 46.5 | 9    | 10 | 27 | 153 |
| FASDNC-63  | 63   | 116 | 76  | 98  | 56 | 56.5 | 9    | 12 | 25 | 170 |
| FASDNC-80  | 80   | 143 | 95  | 119 | 70 | 70   | 11   | 16 | 30 | 190 |
| FASDNC-100 | 100  | 162 | 115 | 138 | 84 | 89   | 11   | 16 | 35 | 205 |
| FASDNC-125 | 125  | 224 | 140 | 180 | 90 | 110  | 16.5 | 20 | 45 | 245 |



### DNC Series Cylinder Mounting

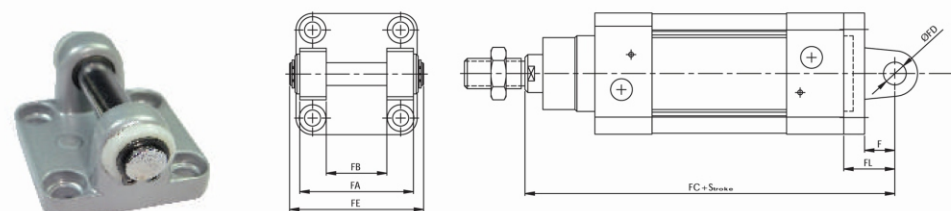
#### MS-SDNC



With Brass Bearing

| Model No.  | Bore | NA  | NB   | NC | ND   | NE | NF | NG | NH |
|------------|------|-----|------|----|------|----|----|----|----|
| MSSDNC-32  | 32   | 45  | 32.5 | 26 | 6.5  | 22 | 9  | 10 | 31 |
| MSSDNC-40  | 40   | 53  | 38   | 28 | 6.5  | 25 | 9  | 12 | 37 |
| MSSDNC-50  | 50   | 64  | 46.5 | 32 | 8.5  | 27 | 11 | 12 | 39 |
| MSSDNC-63  | 63   | 75  | 56.5 | 40 | 8.5  | 22 | 11 | 16 | 47 |
| MSSDNC-80  | 80   | 94  | 72   | 50 | 10.5 | 36 | 14 | 16 | 51 |
| MSSDNC-100 | 100  | 111 | 89   | 60 | 10.5 | 41 | 14 | 20 | 61 |
| MSSDNC-125 | 125  | 140 | 110  | 70 | 12.5 | 50 | 17 | 25 | 80 |

#### MD-SDNC

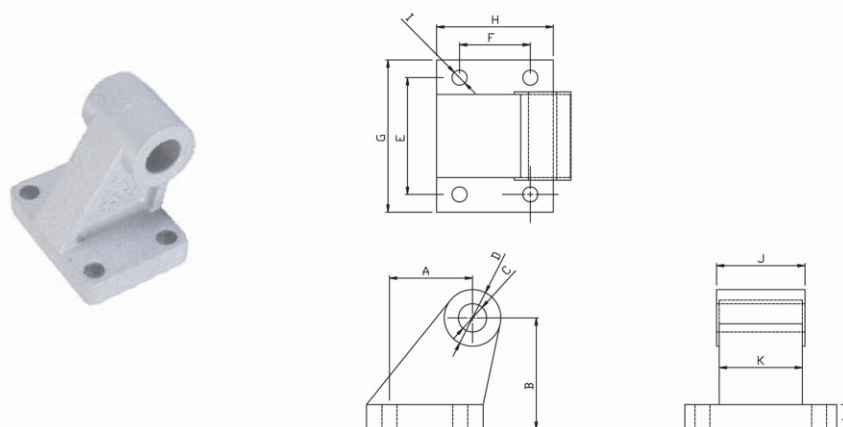


With Brass Bearing

| Model No.   | Bore | F  | FL | FD | FC  | FB | FA  | FE  |
|-------------|------|----|----|----|-----|----|-----|-----|
| MDS DNC-32  | 32   | 13 | 22 | 10 | 142 | 26 | 45  | 55  |
| MDS DNC-40  | 40   | 16 | 25 | 12 | 160 | 28 | 53  | 63  |
| MDS DNC-50  | 50   | 16 | 27 | 12 | 170 | 32 | 60  | 71  |
| MDS DNC-63  | 63   | 21 | 32 | 16 | 190 | 40 | 70  | 82  |
| MDS DNC-80  | 80   | 22 | 36 | 16 | 210 | 50 | 90  | 100 |
| MDS DNC-100 | 100  | 27 | 41 | 20 | 230 | 60 | 110 | 122 |
| MDS DNC-125 | 125  | 32 | 50 | 25 | 275 | 70 | 130 | 142 |

### DNC Series Cylinder Mounting

#### MS-SDNC 90D



| Model No.       | A  | B  | C    | D      | E  | F  | G   | H  | I      | J    | K    | L    |
|-----------------|----|----|------|--------|----|----|-----|----|--------|------|------|------|
| MDS DNC-32-90D  | 22 | 32 | Ø 10 | Ø 20   | 38 | 18 | 51  | 31 | Ø 6.5  | 25.5 | 12   | 8.5  |
| MDS DNC-40-90D  | 24 | 36 | Ø 12 | Ø 22   | 41 | 22 | 54  | 35 | Ø 6.5  | 28   | 15   | 10   |
| MDS DNC-50-90D  | 33 | 45 | Ø 12 | Ø 22   | 50 | 30 | 65  | 45 | Ø 9    | 32   | 16   | 12   |
| MDS DNC-63-90D  | 37 | 50 | Ø 16 | Ø 30   | 52 | 35 | 67  | 50 | Ø 8.5  | 40   | 16   | 12.5 |
| MDS DNC-80-90D  | 48 | 63 | Ø 16 | Ø 30   | 66 | 40 | 86  | 60 | Ø 10.5 | 49   | 23.5 | 12.5 |
| MDS DNC-100-90D | 58 | 72 | Ø 20 | Ø 37.5 | 76 | 50 | 96  | 70 | Ø 10.5 | 59.5 | 24   | 14   |
| MDS DNC-125-90D | 70 | 71 | Ø 25 | Ø 45   | 94 | 60 | 124 | 90 | Ø 14   | 70   | 30   | 20   |