Uflow®
Automation
INDIA

# PNEUMATIC AIR CYLINDER

Automation Simplified...

Solenoid Valve | Angle Seat Valve | Rotary Coupling
Pneumatic Directional Control Valve | Actuator
Air Cylinder | One Touch Fitting | Ball Valve
Butterfly Valve

Country of Origin - INDIA

TÜV NORD ISO 9001:2015

# Pneumatic Tie Rod Cylinder
**(As Per ISO 15552 / VDMA 24562 Standards)**

Uflow Automation

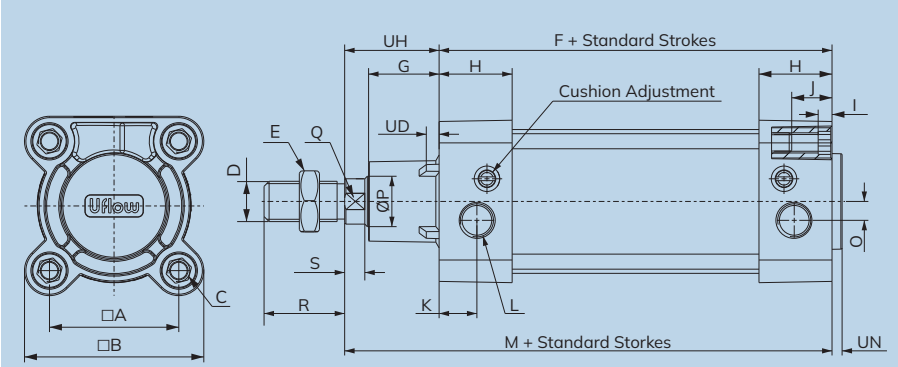



Diagram No. 45.1

## Specifications

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Cylinder bore Ø (mm) : | 32 | 40 | 50 | 63 | 80 | 100 | 125 | 160 | 200 | 250 |
| Cushion stroke (mm) : | 21 | 23 | 23 | 23 | 28 | 28 | 40 | 40 | 40 | 50 |

| | |
|---|---|
| Standard strokes (mm): | 25, 50, 80, 100, 125, 160, 200, 250, 300, 320, 400, 500 |
| Media : | Compressed air - filtered - lubricated |
| Working pressure : | 0.5 - 10 bar |

| Medium temperature : | Regular | High temperature applications |
|---|---|---|
| | +5°C to +60°C | +5°C to +150°C Max |

| | |
|---|---|
| Materials of Construction : | Aluminium, Brass, Steel, Acetal, Polyurethane, Nitrile (Regular), FKM (High temperature) |
| Mountings : | Foot Mounting, Front Flange, Rear Flange, Male Clevis, Female Clevis, Female Clevis (king Pin), Center Trunnion, Front Trunnion , Rear Trunnion |
| Accessories : | Clevis Foot Bracket, Wall Mounting Bracket, Trunnion Bracket, Rod End Fork, Rod End Aligner, Rod End Spherical Eye |

## Features

- Adjustable cushioning at both ends with elastomer pads.
- Wide varieties of mountings.
- Optional - High temperature (Viton seals) 150°C max.
- Optional - Non corrosive stainless steel piston rod and piston rod lock nut (SS304)

## Technical Data

All Dimension in mm

| Cylinder bore Ø | A | B | C | D | E | F | ± TOL | G | H | I | J | K | L | M | ± TOL | UN | O | P | Q | R | S | ØT | UD | UH | ± TOL | Stroke tol |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 32 | 32.5 | 45 | M6 | M10X1.25 | 17 | 94 | ±0.6 | 18.5 | 25.5 | 5 | 16 | 13 | G⅛ | 120 | ±1 | 4 | 5 | 12 | 10 | 22 | 6 | 30 | 6 | 26 | | |
| 40 | 38 | 51 | M6 | M12X1.25 | 19 | 105 | | 20.5 | 29 | 5 | 16 | 14.5 | G¼ | 135 | | 4 | 5 | 16 | 13 | 24 | 6.5 | 35 | 6.5 | 30 | ±1.3 | +2 +0 |
| 50 | 46.5 | 64 | M8 | M16X1.5 | 24 | 106 | ±0.7 | 28 | 29 | 6 | 16 | 15 | G¼ | 143 | | 4 | 7.5 | 20 | 16 | 32 | 8 | 40 | 6.5 | 37 | | |
| 63 | 56.5 | 74 | M8 | M16X1.5 | 24 | 121 | | 27.5 | 35 | 6 | 16 | 17 | G⅜ | 158 | ±1.1 | 4 | 10 | 20 | 16 | 32 | 8 | 45 | 6.5 | 37 | | |
| 80 | 72 | 94 | M10 | M20X1.5 | 30 | 128 | ±0.8 | 34 | 35 | 6 | 16 | 18 | G⅜ | 174 | | 4 | 14 | 25 | 21 | 40 | 10 | 45 | 6.5 | 46 | ±1.5 | +2.5 +0 |
| 100 | 89 | 111 | M10 | M20X1.5 | 30 | 138 | | 35 | 38.5 | 6 | 16 | 18 | G½ | 189 | | 4 | 10 | 25 | 21 | 40 | 10 | 55 | 6.5 | 51 | | |
| 125 | 110 | 136 | M12 | M27X2 | 41 | 160 | ±1.0 | 46.5 | 44 | - | 20 | 20 | G½ | 225 | ±1.2 | 6 | 12 | 32 | 27 | 54 | 10 | 60 | 10 | 65 | | |
| 160 | 140 | 183 | M16 | M36X2 | 55 | 180 | ±1.1 | 60 | 50.7 | - | 24 | 31 | G¾ | 260 | ±1.5 | 6 | 12 | 40 | 36 | 72 | 8 | 65 | 8 | 60 | ±2.2 | +4 +0 |
| 200 | 175 | 222 | M16 | M36X2 | 55 | 180 | ±1.6 | 70 | 46.7 | - | 24 | 30 | G¾ | 275 | | 6 | 12 | 40 | 36 | 72 | 8 | 75 | 8 | 95 | | |
| 250 | 220 | 272 | M20 | M42X2 | 65 | 200 | | 75 | 51.2 | - | 25 | 32 | G1 | 305 | ±2 | 10 | 25 | 50 | 46 | 84 | 12 | 90 | 12 | 105 | | +5 +0 |

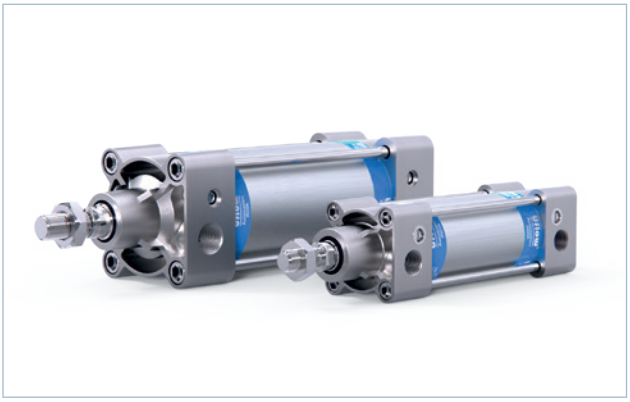
## Output Force

( Force in N : 1N = 0.1 kgf )

| Cylinder bore Ø (mm) | Rod Ø (mm) | | Working pressure in bar | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 32 | 12 | Extend | 145 | 217 | 289 | 362 | 434 | 507 | 579 | 651 | 724 |
| | | Retract | 124 | 187 | 249 | 311 | 373 | 435 | 498 | 559 | 621 |
| 40 | 16 | Extend | 226 | 339 | 452 | 565 | 678 | 792 | 905 | 1018 | 1130 |
| | | Retract | 190 | 285 | 380 | 475 | 570 | 665 | 760 | 855 | 950 |
| 50 | 20 | Extend | 353 | 530 | 706 | 884 | 1060 | 1237 | 1414 | 1590 | 1767 |
| | | Retract | 297 | 445 | 594 | 742 | 891 | 1039 | 1187 | 1336 | 1484 |
| 63 | 20 | Extend | 561 | 842 | 1122 | 1403 | 1683 | 1964 | 2244 | 2525 | 2805 |
| | | Retract | 505 | 757 | 1009 | 1261 | 1514 | 1766 | 2018 | 2270 | 2523 |
| 80 | 25 | Extend | 905 | 1357 | 1809 | 2262 | 2714 | 3167 | 3619 | 4072 | 4524 |
| | | Retract | 816 | 1225 | 1633 | 2041 | 2449 | 2857 | 3266 | 3674 | 4082 |
| 100 | 25 | Extend | 1414 | 2120 | 2828 | 3534 | 4241 | 4948 | 5655 | 6362 | 7069 |
| | | Retract | 1325 | 1988 | 2650 | 3313 | 3976 | 4640 | 5300 | 5965 | 6625 |
| 125 | 32 | Extend | 2209 | 3313 | 4417 | 5522 | 6626 | 7731 | 8835 | 9940 | 11044 |
| | | Retract | 2064 | 3096 | 4128 | 5160 | 6192 | 7224 | 8256 | 9288 | 10320 |
| 160 | 40 | Extend | 3619 | 5428 | 7238 | 9047 | 10857 | 12666 | 14476 | 16286 | 18095 |
| | | Retract | 3392 | 5089 | 6785 | 8482 | 10178 | 11875 | 13571 | 15268 | 16964 |
| 200 | 40 | Extend | 5654 | 8482 | 11309 | 14137 | 16964 | 19792 | 22619 | 25446 | 28274 |
| | | Retract | 5428 | 8143 | 10857 | 13571 | 16286 | 19000 | 21714 | 24429 | 27143 |
| 250 | 50 | Extend | 8836 | 13253 | 17671 | 22089 | 26507 | 30925 | 35343 | 39760 | 44178 |
| | | Retract | 8482 | 12723 | 16964 | 21205 | 25446 | 29688 | 33929 | 38170 | 42411 |

# Pneumatic Tie Rod Cylinder
**(As per ISO 6431 / CETOP RP43P, RP53P standards)**

Uflow Automation



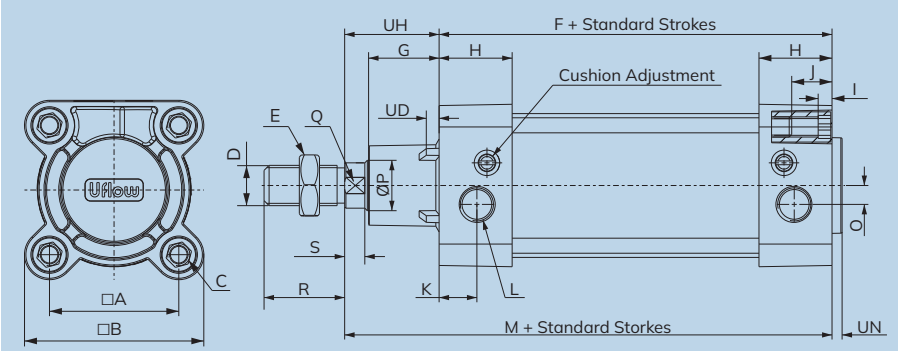



Diagram No. 45.1

## Specifications

| | | | | | | |
|---|---|---|---|---|---|---|
| Cylinder bore Ø (mm) : | 32 | 40 | 50 | 63 | 80 | 100 |
| Cushion stroke (mm) : | 21 | 23 | 23 | 23 | 28 | 28 |

| | |
|---|---|
| Standard strokes (mm): | 25, 50, 80, 100, 125, 160, 200, 250, 300, 320, 400, 500 |
| Media : | Compressed air - filtered - lubricated |
| Working pressure : | 0.5 - 10 bar |

| Medium temperature : | Regular | High temperature applications |
|---|---|---|
| | +5°C to +60°C | +5°C to +150°C Max |

| | |
|---|---|
| Materials of Construction : | Aluminium, Brass, Steel, Acetal, Polyurethane, Nitrile (Regular), FKM (High temperature) |
| Mountings | Foot Mounting, Front Flange, Rear Flange, Male Clevis, Female Clevis, Female Clevis (king Pin), Center Trunnion, Front Trunnion , Rear Trunnion |
| Accessories | Clevis Foot Bracket, Wall Mounting Bracket, Trunnion Bracket, Rod End Fork, Rod End Aligner, Rod End Spherical Eye |

## Features

- Adjustable cushioning at both ends with elastomer pads.
- Wide varieties of mountings.
- Optional - High temperature (Viton seals) 150°C max.
- Optional - Non corrosive stainless steel piston rod and piston rod lock nut (SS304)

## Technical Data

All Dimension in mm

| Cylinder bore Ø | A | B | C | D | E | F | ± TOL | G | H | I | J | K | L | M | ± TOL | UN | O | P | Q | R | S | ØT | UD | UH | ± TOL | Stroke tol |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 32 | 32 | 44 | M6 | M10X1.25 | 17 | 94 | ±0.6 | 20.5 | 25 | 5 | 16 | 8.5 | G⅛ | 120 | ±1 | 4 | 0 | 12 | 10 | 22 | 6 | 30 | 6 | 26 | ±1.3 | +2 +0 |
| 40 | 40 | 55 | M6 | M12X1.25 | 19 | 105 | | 24.5 | 28 | 5 | 16 | 12 | G¼ | 135 | | 4 | 3 | 16 | 13 | 24 | 6.5 | 35 | 6.5 | 30 | | |
| 50 | 48 | 63 | M8 | M16X1.5 | 24 | 106 | ±0.7 | 30 | 30 | 6 | 16 | 12 | G¼ | 143 | ±1.1 | 4 | 5 | 20 | 16 | 32 | 8 | 40 | 6.5 | 37 | | |
| 63 | 60 | 83 | M8 | M16X1.5 | 24 | 121 | ±0.8 | 30.5 | 33 | 6 | 16 | 16.5 | G⅜ | 158 | | 4 | 10 | 20 | 16 | 32 | 8 | 45 | 6.5 | 37 | ±1.5 | +2.5 +0 |
| 80 | 72 | 98 | M10 | M20X1.5 | 30 | 128 | | 38.5 | 33 | 6 | 16 | 16 | G⅜ | 174 | | 4 | 15 | 25 | 21 | 40 | 10 | 45 | 6.5 | 46 | | |
| 100 | 89 | 115 | M10 | M20X1.5 | 30 | 138 | | 44 | 37 | 6 | 16 | 18 | G½ | 189 | | 4 | 15 | 25 | 21 | 40 | 10 | 55 | 6.5 | 51 | | |

## Output Force

( Force in N : 1N = 0.1 kgf )

| Cylinder bore Ø (mm) | Rod Ø (mm) | | Working pressure in bar | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 32 | 12 | Extend | 145 | 217 | 289 | 362 | 434 | 507 | 579 | 651 | 724 |
| | | Retract | 124 | 187 | 249 | 311 | 373 | 435 | 498 | 559 | 621 |
| 40 | 16 | Extend | 226 | 339 | 452 | 565 | 678 | 792 | 905 | 1018 | 1130 |
| | | Retract | 190 | 285 | 380 | 475 | 570 | 665 | 760 | 855 | 950 |
| 50 | 20 | Extend | 353 | 530 | 706 | 884 | 1060 | 1237 | 1414 | 1590 | 1767 |
| | | Retract | 297 | 445 | 594 | 742 | 891 | 1039 | 1187 | 1336 | 1484 |
| 63 | 20 | Extend | 561 | 842 | 1122 | 1403 | 1683 | 1964 | 2244 | 2525 | 2805 |
| | | Retract | 505 | 757 | 1009 | 1261 | 1514 | 1766 | 2018 | 2270 | 2523 |
| 80 | 25 | Extend | 905 | 1357 | 1809 | 2262 | 2714 | 3167 | 3619 | 4072 | 4524 |
| | | Retract | 816 | 1225 | 1633 | 2041 | 2449 | 2857 | 3266 | 3674 | 4082 |
| 100 | 25 | Extend | 1414 | 2120 | 2828 | 3534 | 4241 | 4948 | 5655 | 6362 | 7069 |
| | | Retract | 1325 | 1988 | 2650 | 3313 | 3976 | 4640 | 5300 | 5965 | 6625 |

# Pneumatic Cylinder Double End Double Acting
(As Per ISO 15552 / VDMA 24562 Standards)

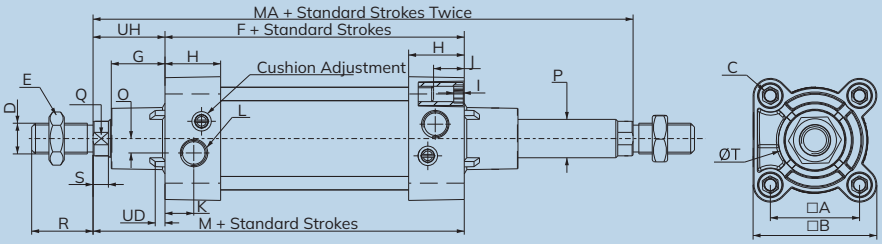



Diagram No. 45.1

## Specifications

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Cylinder Bore Ø (mm) : | 32 | 40 | 50 | 63 | 80 | 100 | 125 | 160 | 200 |
| Cushion Stroke (mm) : | 21 | 23 | 23 | 23 | 28 | 28 | 40 | 40 | 40 |

| | |
|---|---|
| Standard Strokes (mm): | 25, 50, 80, 100, 125, 160, 200, 250, 300, 320, 400, 500 |
| Media : | Compressed air - filtered - lubricated |
| Working Pressure : | 0.5 - 10 bar |

| Medium Temperature : | Regular | High Temperature Applications |
|---|---|---|
| | +5°C to +60°C | +5°C to +150°C Max |

| | |
|---|---|
| Materials of Construction : | Aluminium, Brass, Steel, Acetal, Polyurethane, Nitrile (Regular), FKM (High temperature) |
| Mountings | Foot Mounting, Flange, Female Clevis, Front Trunnion, Center Trunnion |
| Accessories | Clevis Foot Bracket, Wall Mounting Bracket, Trunnion Bracket, Rod End Fork, Rod End Aligner, Rod End Spherical Eye |

## Features

- Adjustable cushioning at both ends with pads.
- Wide varieties of mountings.
- Optional - High temperature (Viton seals) 150°C max.
- Optional - Non corrosive stainless steel piston rod and piston rod lock nut (SS304)

## Technical Data

All Dimension in mm

| Cylinder bore Ø | A | B | C | D | E | F | ± TOL | G | H | I | J | K | L | M | ± TOL | MA | ± TOL | O | P | Q | R | S | ØT | UD | UH | ± TOL | Stroke tol |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 32 | 32.5 | 45 | M6 | M10X1.25 | 17 | 94 | ±0.6 | 18.5 | 25.5 | 5 | 16 | 13 | G⅛ | 120 | ±1 | 147 | | 5 | 12 | 10 | 22 | 6 | 30 | 6 | 26 | | +2 |
| 40 | 38 | 51 | M6 | M12X1.25 | 19 | 105 | | 20.5 | 29 | 5 | 16 | 14.5 | G¼ | 135 | | 166 | | 5 | 16 | 13 | 24 | 6.5 | 35 | 6.5 | 30 | ±1.3 | 0 |
| 50 | 46.5 | 64 | M8 | M16X1.5 | 24 | 106 | ±0.7 | 28 | 29 | 6 | 16 | 15 | G¼ | 143 | | 181 | ±1.5 | 7.5 | 20 | 16 | 32 | 8 | 40 | 6.5 | 37 | | |
| 63 | 56.5 | 74 | M8 | M16X1.5 | 24 | 121 | | 27.5 | 35 | 6 | 16 | 17 | G⅜ | 158 | ±1.1 | 196 | | 10 | 20 | 16 | 32 | 8 | 45 | 6.5 | 37 | | +2.5 |
| 80 | 72 | 94 | M10 | M20X1.5 | 30 | 128 | ±0.8 | 34 | 35 | 6 | 16 | 18 | G⅜ | 174 | | 221 | | 14 | 25 | 21 | 40 | 10 | 45 | 6.5 | 46 | ±1.5 | 0 |
| 100 | 89 | 111 | M10 | M20X1.5 | 30 | 138 | | 35 | 38.5 | 6 | 16 | 18 | G½ | 189 | | 241 | | 10 | 25 | 21 | 40 | 10 | 55 | 6.5 | 51 | | |
| 125 | 110 | 136 | M12 | M27X2 | 41 | 160 | ±1 | 48.5 | 44 | 6 | 20 | 20 | G½ | 225 | ±1.2 | 292 | | 12 | 32 | 27 | 54 | 13 | 60 | 10 | 66 | | +4 |
| 160 | 140 | 183 | M18 | M36X2 | 55 | 180 | ±1.1 | 60 | 51 | - | 24 | 26 | G¾ | 260 | ±1.5 | 341 | ±2 | 12 | 40 | 36 | 72 | 16 | 65 | 8 | 80 | ±2.2 | 0 |
| 200 | 175 | 222 | M16 | M36X2 | 55 | 180 | ±1.6 | 70 | 46 | - | 24 | 25 | G¾ | 275 | ±1.5 | 372 | | 25 | 40 | 36 | 72 | 16 | 75 | 8 | 96 | | |

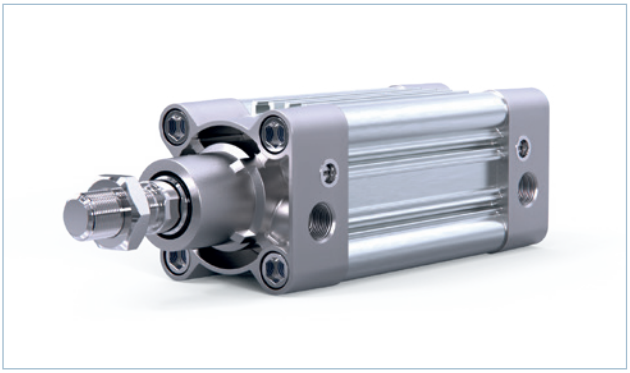
## Output Force

( Force in N : 1N = 0.1 kgf )

| Cylinder bore Ø (mm) | Rod Ø (mm) | Working pressure in bar | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 32 | 12 | 124 | 187 | 249 | 311 | 373 | 435 | 498 | 559 | 621 |
| 40 | 16 | 190 | 285 | 380 | 475 | 570 | 665 | 760 | 855 | 950 |
| 50 | 20 | 297 | 445 | 594 | 742 | 891 | 1039 | 1187 | 1336 | 1484 |
| 63 | 20 | 505 | 757 | 1009 | 1261 | 1514 | 1766 | 2018 | 2270 | 2523 |
| 80 | 25 | 816 | 1225 | 1633 | 2041 | 2449 | 2857 | 3266 | 3674 | 4082 |
| 100 | 25 | 1325 | 1988 | 2650 | 3313 | 3976 | 4640 | 5300 | 5965 | 6625 |
| 125 | 32 | 2064 | 3096 | 4128 | 5160 | 6192 | 7224 | 8256 | 9288 | 10320 |
| 160 | 40 | 3392 | 5089 | 6785 | 8482 | 10178 | 11875 | 13571 | 15268 | 16964 |
| 200 | 40 | 5428 | 8143 | 10857 | 13571 | 16286 | 19000 | 21714 | 24429 | 27143 |

# Pneumatic Profile Cylinder - Square Type

**(As Per ISO 15552 / VDMA 24562 Standards)**



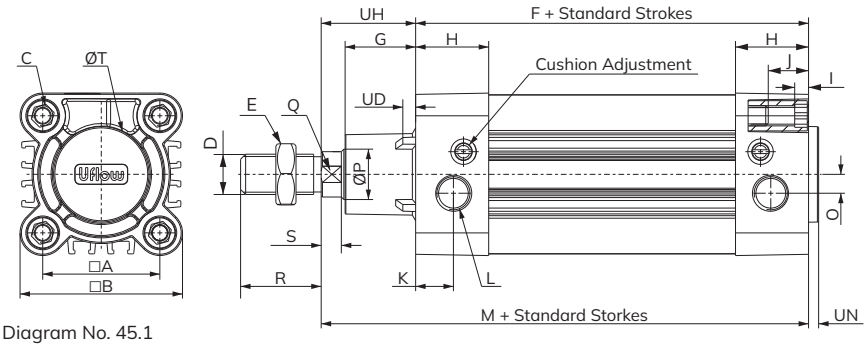



Diagram No. 45.1

## Specifications

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Cylinder Bore Ø (mm) : | 32 | 40 | 50 | 63 | 80 | 100 | 125 |
| Cushion Stroke (mm) : | 21 | 23 | 23 | 23 | 28 | 28 | 40 |
| Standard Strokes (mm): | 25, 50, 80, 100, 125, 160, 200, 250, 300, 320, 400, 500 | | | | | | 50, 80, 100, 125, 160, 200 250, 300, 320, 400, 500 |
| Media : | Compressed air - filtered - lubricated | | | | | | |
| Working Pressure : | 0.5 - 10 bar | | | | | | |

| Medium Temperature : | Regular | High temperature applications |
|---|---|---|
| | 5°C - 60°C | 5°C - 150°C Max |

| | |
|---|---|
| Materials of Construction : | Aluminium, Brass, Steel, Acetal, Polyurethane, Nitrile (Regular), FKM (High temperature) |
| Mountings : | Foot Mounting, Front Flange, Rear Flange, Male Clevis, Male Clevis (with Spherical Bearing), Female Clevis, Female Clevis (king Pin), Front Trunnion, Rear Trunnion |
| Accessories : | Clevis Foot Bracket, Clevis Foot Bracket (spherical), Wall Mounting Bracket, Trunnion Bracket, Rod End Fork, Rod End Aligner, Rod End Spherical Eye |

## Features

- Adjustable cushioning at both ends with pads.
- Wide varieties of mountings.
- Optional - High temperature (Viton seals) 150°C max.
- Optional - Non corrosive stainless steel piston rod and piston rod lock nut (SS304)

## Technical Data

All Dimension in mm

| Cylinder bore Ø | A | B | C | D | E | F | ± TOL | G | H | I | J | K | L | M | ± TOL | UN | O | P | Q | R | S | ØT | UD | UH | ± TOL | Stroke tol |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 32 | 32.5 | 45 | M6 | M10X1.25 | 17 | 94 | ±0.6 | 18.5 | 25.5 | 5 | 16 | 13 | G⅛ | 120 | ±1 | 4 | 5 | 12 | 10 | 22 | 6 | 30 | 6 | 26 | ±1.3 | +2 +0 |
| 40 | 38 | 51 | M6 | M12X1.25 | 19 | 105 | | 20.5 | 29 | 5 | 16 | 14.5 | G¼ | 135 | | 4 | 5 | 16 | 13 | 24 | 6.5 | 35 | 6.5 | 30 | | |
| 50 | 46.5 | 64 | M8 | M16X1.5 | 24 | 106 | ±0.7 | 28 | 29 | 6 | 16 | 15 | G¼ | 143 | | 4 | 7.5 | 20 | 16 | 32 | 8 | 40 | 6.5 | 37 | | |
| 63 | 56.5 | 74 | M8 | M16X1.5 | 24 | 121 | | 27.5 | 35 | 6 | 16 | 17 | G⅜ | 158 | ±1.1 | 4 | 10 | 20 | 16 | 32 | 8 | 45 | 6.5 | 37 | | +2.5 +0 |
| 80 | 72 | 94 | M10 | M20X1.5 | 30 | 128 | ±0.8 | 34 | 35 | 6 | 16 | 18 | G⅜ | 174 | | 4 | 14 | 25 | 21 | 40 | 10 | 45 | 6.5 | 46 | ±1.5 | |
| 100 | 89 | 111 | M10 | M20X1.5 | 30 | 138 | | 35 | 38.5 | 6 | 16 | 18 | G½ | 189 | | 4 | 10 | 25 | 21 | 40 | 10 | 55 | 6.5 | 51 | | |
| 125 | 110 | 136 | M12 | M20X1.5 | 41 | 160 | ±1 | 49 | 44 | - | 20 | 20 | G½ | 225 | ±1.2 | 6 | 12 | 32 | 27 | 54 | 13 | 60 | 10 | 5 | ±2.2 | +4 0 |

## Output Force

( Force in N : 1N = 0.1 kgf )

| Cylinder bore Ø (mm) | Rod Ø (mm) | | Working pressure in bar | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 32 | 12 | Extend | 145 | 217 | 289 | 362 | 434 | 507 | 579 | 651 | 724 |
| | | Retract | 124 | 187 | 249 | 311 | 373 | 435 | 498 | 559 | 621 |
| 40 | 16 | Extend | 226 | 339 | 452 | 565 | 678 | 792 | 905 | 1018 | 1130 |
| | | Retract | 190 | 285 | 380 | 475 | 570 | 665 | 760 | 855 | 950 |
| 50 | 20 | Extend | 353 | 530 | 706 | 884 | 1060 | 1237 | 1414 | 1590 | 1767 |
| | | Retract | 297 | 445 | 594 | 742 | 891 | 1039 | 1187 | 1336 | 1484 |
| 63 | 20 | Extend | 561 | 842 | 1122 | 1403 | 1683 | 1964 | 2244 | 2525 | 2805 |
| | | Retract | 505 | 757 | 1009 | 1261 | 1514 | 1766 | 2018 | 2270 | 2523 |
| 80 | 25 | Extend | 905 | 1357 | 1809 | 2262 | 2714 | 3167 | 3619 | 4072 | 4524 |
| | | Retract | 816 | 1225 | 1633 | 2041 | 2449 | 2857 | 3266 | 3674 | 4082 |
| 100 | 25 | Extend | 1414 | 2120 | 2828 | 3534 | 4241 | 4948 | 5655 | 6362 | 7069 |
| | | Retract | 1325 | 1988 | 2650 | 3313 | 3976 | 4640 | 5300 | 5965 | 6625 |
| 125 | 32 | Extend | 2209 | 3313 | 4417 | 5522 | 6626 | 7731 | 8835 | 9940 | 11044 |
| | | Retract | 2064 | 3096 | 4128 | 5160 | 6192 | 7224 | 8256 | 9288 | 10320 |

# Pneumatic Profile Cylinder Double End Double Acting - Square Type
**(As Per ISO 15552 / VDMA 24562 Standards)**



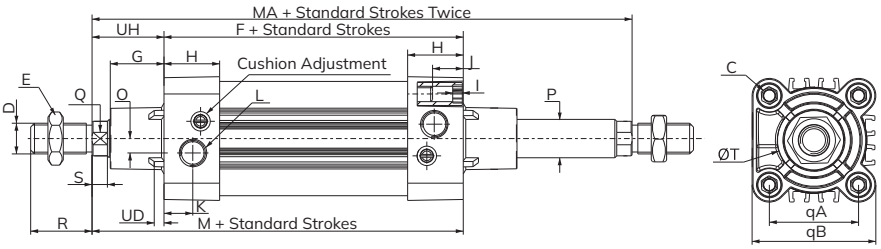



Diagram No. 45.1

## Specifications

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Cylinder Bore Ø (mm) : | 32 | 40 | 50 | 63 | 80 | 100 | 125 |
| Cushion Stroke (mm) : | 21 | 23 | 23 | 23 | 28 | 28 | 40 |
| Standard Strokes (mm): | 25, 50, 80, 100, 125, 160, 200, 250, 300, 320, 400, 500 | | | | | | 50, 80, 100, 125, 160, 200, 250, 300, 320, 400, 500 |
| Media : | Compressed air - filtered - lubricated | | | | | | |
| Working Pressure : | 0.5 - 10 bar | | | | | | |
| Medium Temperature : | Regular | | | High Temperature Applications | | | |
| | +5°C to +60°C | | | +5°C to +150°C Max | | | |
| Materials of Construction : | Aluminium, Brass, Steel, Acetal, Polyurethane, Nitrile (Regular), FKM (High temperature) | | | | | | |
| Mountings | Foot Mounting, Flange, Female Clevis, Front & Rear Trunnion, Center Trunnion | | | | | | |
| Accessories | Clevis Foot Bracket, Wall Mounting Bracket, Trunnion Bracket, Rod End Fork, Rod End Aligner, Rod End Spherical Eye | | | | | | |

## Features

- Adjustable cushioning at both ends with pads.
- Wide varieties of mountings.
- Optional - High temperature (Viton seals) 150°C max.
- Optional - Non corrosive stainless steel piston rod and piston rod lock nut (SS304)

## Technical Data

All Dimension in mm

| Cylinder bore Ø | A | B | C | D | E | F | ± TOL | G | H | I | J | K | L | M | ± TOL | MA | ± TOL | O | P | Q | R | S | ØT | UD | UH | ± TOL | Stroke tol |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 32 | 32.5 | 45 | M6 | M10X1.25 | 17 | 94 | ±0.6 | 18.5 | 25.5 | 5 | 16 | 13 | G⅛ | 120 | ±1 | 147 | ±1.5 | 5 | 12 | 10 | 22 | 6 | 30 | 6 | 26 | ±1.3 | +2 0 |
| 40 | 38 | 51 | M6 | M12X1.25 | 19 | 105 | | 20.5 | 29 | 5 | 16 | 14.5 | G¼ | 135 | | 166 | | 5 | 16 | 13 | 24 | 6.5 | 35 | 6.5 | 30 | | |
| 50 | 46.5 | 64 | M8 | M16X1.5 | 24 | 106 | ±0.7 | 28 | 29 | 6 | 16 | 15 | G¼ | 143 | | 181 | | 7.5 | 20 | 16 | 32 | 8 | 40 | 6.5 | 37 | | |
| 63 | 56.5 | 74 | M8 | M16X1.5 | 24 | 121 | | 27.5 | 35 | 6 | 16 | 17 | G⅜ | 158 | ±1.1 | 196 | | 10 | 20 | 16 | 32 | 8 | 45 | 6.5 | 37 | | |
| 80 | 72 | 94 | M10 | M20X1.5 | 30 | 128 | ±0.8 | 34 | 35 | 6 | 16 | 18 | G⅜ | 174 | | 221 | | 14 | 25 | 21 | 40 | 10 | 45 | 6.5 | 46 | ±1.5 | +2.5 0 |
| 100 | 89 | 111 | M10 | M20X1.5 | 30 | 138 | | 35 | 38.5 | 6 | 16 | 18 | G½ | 189 | | 241 | | 10 | 25 | 21 | 40 | 10 | 55 | 6.5 | 51 | | |
| 125 | 110 | 136 | M12 | M27X2 | 41 | 160 | ±1 | 48.5 | 44 | 6 | 20 | 20 | G½ | 225 | ±1.2 | 292 | ±2 | 12 | 32 | 32 | 54 | 13 | 60 | 10 | 66 | ±2.2 | +4 0 |

## Output Force

( Force in N : 1N = 0.1 kgf )

| Cylinder bore Ø (mm) | Rod Ø (mm) | Working pressure in bar | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 32 | 12 | 124 | 187 | 249 | 311 | 373 | 435 | 498 | 559 | 621 |
| 40 | 16 | 190 | 285 | 380 | 475 | 570 | 665 | 760 | 855 | 950 |
| 50 | 20 | 297 | 445 | 594 | 742 | 891 | 1039 | 1187 | 1336 | 1484 |
| 63 | 20 | 505 | 757 | 1009 | 1261 | 1514 | 1766 | 2018 | 2270 | 2523 |
| 80 | 25 | 816 | 1225 | 1633 | 2041 | 2449 | 2857 | 3266 | 3674 | 4082 |
| 100 | 25 | 1325 | 1988 | 2650 | 3313 | 3976 | 4640 | 5300 | 5965 | 6625 |
| 125 | 32 | 2064 | 3096 | 4128 | 5160 | 6192 | 7224 | 8256 | 9288 | 10320 |

# PNEUMATIC CYLINDER IDENTIFICATION CHART (As Per ISO 15552 / VDMA 24562 Standards)

| C05 | 032 | 025 | A | - | - | V0 |
|---|---|---|---|---|---|---|

| PRODUCT TYPE | |
|---|---|
| C05 | Tie Rod Cylinder |
| C06 | Magnetic Tie Rod Cylinder |
| C07 | Profile Cylinder |
| C08 | Magnetic Profile Cylinder |
| C09 | Tie Rod Double end Cylinder |
| C10 | Magnetic Tie Rod Double end Cylinder |
| C11 | Profile Double End Cylinder |
| C12 | Magnetic Profile Double End Cylinder |
| C22 | Miniature Standard Cylinder |
| C23 | Miniature Magnetic Cylinder |

| PISTON Ø (MM) | |
|---|---|
| 032 | OD 32 |
| 040 | OD 40 |
| 050 | OD 50 |
| 063 | OD 63 |
| 080 | OD 80 |
| 100 | OD 100 |
| 125 | OD 125 |
| 160 | OD 160 |
| 200 | OD 200 |
| 250 | OD 250 |
| 08 | OD 8 |
| 10 | OD 10 |
| 12 | OD 12 |
| 16 | OD 16 |
| 20 | OD 20 |
| 25 | OD 25 |

| STROKE (MM) | |
|---|---|
| 025 | STROKE 25 |
| 050 | STROKE 50 |
| 080 | STROKE 80 |
| 100 | STROKE 100 |
| 125 | STROKE 125 |
| 160 | STROKE 160 |
| 200 | STROKE 200 |
| 250 | STROKE 250 |
| 300 | STROKE 300 |
| 320 | STROKE 320 |
| 400 | STROKE 400 |
| 500 | STROKE 500 |
| 010 | STROKE 10 |
| 040 | STROKE 40 |

| MOUNTINGS | |
|---|---|
| A | Basic |
| B | Foot Mounting |
| C | Front Flange |
| D | Rear Flange |
| E | Male Clevis |
| F | Female Clevis |
| G | Rear Trunnion |
| H | Front Trunnion |
| I | Center Trunnion |

| OPTIONAL | |
|---|---|
| - | Blank |
| H | High Temperature |
| S | SS Piston Rod |

| CONFIGURATION | |
|---|---|
| BLANK | REGULAR |
| C1 | CONFIG 1 |
| C2 | CONFIG 2 |
| C3 | CONFIG 3 |
| ⋮ | ⋮ |
| C9 | CONFIG 9 |
| CA | CONFIG 10 |
| CB | CONFIG 11 |

| VERSION | |
|---|---|
| V0 | VERSION 0 |
| V1 | VERSION 1 |
| V2 | VERSION 2 |
| V3 | VERSION 3 |
| ⋮ | ⋮ |
| V9 | VERSION 9 |
| VA | VERSION 10 |
| VB | VERSION 11 |

**C05032025AV0**
STANDARD CYLINDER OD 32-STROKE 25-BASIC

Note : The above chart is for identification purposes only, and it may not be possible to make all combinations for the above chart.



Uflow® Automation INDIA

# PNEUMATIC CYLINDER IDENTIFICATION CHART (As per ISO 6431 / CETOP RP43P, RP53P Standards)

| C31 | 032 | 025 | A | - | - | V0 |
|---|---|---|---|---|---|---|

| PRODUCT TYPE | |
|---|---|
| C31 | Tie Rod Cylinder |
| C32 | Magnetic Tie Rod Cylinder |
| C33 | Profile Cylinder |
| C34 | Magnetic Profile Cylinder |
| C35 | Tie Rod Double end Cylinder |
| C36 | Magnetic Tie Rod Double end Cylinder |
| C37 | Profile Double End Cylinder |
| C38 | Magnetic Profile Double End Cylinder |

| PISTON Ø (MM) | |
|---|---|
| 032 | OD 32 |
| 040 | OD 40 |
| 050 | OD 50 |
| 063 | OD 63 |
| 080 | OD 80 |
| 100 | OD 100 |

| STROKE (MM) | |
|---|---|
| 025 | STROKE 25 |
| 050 | STROKE 50 |
| 080 | STROKE 80 |
| 100 | STROKE 100 |
| 125 | STROKE 125 |
| 160 | STROKE 160 |
| 200 | STROKE 200 |
| 250 | STROKE 250 |
| 300 | STROKE 300 |
| 320 | STROKE 320 |
| 400 | STROKE 400 |
| 500 | STROKE 500 |

| MOUNTINGS | |
|---|---|
| A | Basic |
| B | Foot Mounting |
| C | Front Flange |
| D | Rear Flange |
| E | Male Clevis |
| F | Female Clevis |
| G | Rear Trunnion |
| H | Front Trunnion |
| I | Center Trunnion |

| OPTIONAL | |
|---|---|
| - | Blank |
| H | High Temperature |
| S | SS Piston Rod |

| CONFIGURATION | |
|---|---|
| BLANK | REGULAR |
| C1 | CONFIG 1 |
| C2 | CONFIG 2 |
| C3 | CONFIG 3 |
| ⋮ | ⋮ |
| C9 | CONFIG 9 |
| CA | CONFIG 10 |
| CB | CONFIG 11 |

| VERSION | |
|---|---|
| V0 | VERSION 0 |
| V1 | VERSION 1 |
| V2 | VERSION 2 |
| V3 | VERSION 3 |
| ⋮ | ⋮ |
| V9 | VERSION 9 |
| VA | VERSION 10 |
| VB | VERSION 11 |

**C31032025AV0**
STANDARD CYLINDER OD 32-STROKE 25-BASIC

Note : The above chart is for identification purposes only, and it may not be possible to make all combinations for the above chart.



Uflow® Automation INDIA

## Global Presence...


Made In India


**CONTACT US:**

sales@uflowvalve.com +91 89059 07070 +91-2827-254343 www.uflowvalve.com

Uflow Automation, Ankur Industrial Complex, Survey No: 275/276, Plot No: 31, Nr. Intol Cast Pvt. Ltd. Shapar(Veraval) Dist.: Gujarat (India) - 360 024.