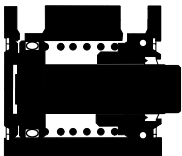
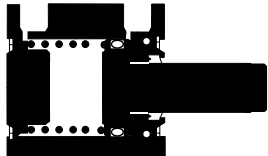


Series 95000 Compact Actuators

Spring return



Spring extend



Light weight

Compact design, which is considerably shorter than ISO/VDMA or NFPA equivalent.

Low friction characteristics for high speed operation

Hard anodized body for corrosion protection and longer life

Duralon® rod bearing for reduced wear

Chrome plated stainless steel piston rods

Technical data

Medium:

Compressed air, filtered, lubricated or non-lubricated

Operation:

DM/95000 BSP parallel ports, single acting, non-cushioned, metric ports, spring return

DM/96000 BSP parallel ports, single acting, non-cushioned, metric ports, spring extend

DC/95000 NPT ports, single acting, non-cushioned, metric ports, spring return

DC/96000 NPT ports, single acting, non-cushioned, metric ports, spring extend

Operating pressure:
14.5 to 145 psig (1 to 10 bar)

Operating temperature:
-25°F to +250°F (-32°C to +121°C)

Consult our Technical Service for use below 35°F (+2°C)

Materials

Barrel: hard anodized aluminum

End caps: hard anodized aluminum alloy

Piston rod: stainless steel, hard chrome plated

Elastomers: Buna N

Options selector

★DC/9★0★*/★/★/★

| Temperature | Substitute |
|---------------------------------|------------|
| High temperature (Viton® seals) | T |

| Ports | Substitute |
|--------------|------------|
| NPT Ports | C |
| BSP parallel | M |

| Operation | Substitute |
|---------------|------------|
| Spring return | 5 |
| Spring extend | 6 |

| Cylinder ø (mm) | Substitute |
|-----------------|------------|
| 12 | 012 |
| 16 | 016 |
| 20 | 020 |
| 25 | 025 |
| 32 | 032 |
| 40 | 040 |
| 50 | 050 |

| Mounting | Substitute |
|--------------------------|------------|
| Without | None |
| Foot | C |
| Flange rod end | G |
| Flange cap end | B |
| ISO Flange rod end | IG |
| ISO Flange cap end | IB |
| Rear clevis | D |
| Tapped holes - both ends | A |

| Stroke (mm) |
|----------------------------|
| 10 mm max. (Ø 12 to 40 mm) |
| 20 mm max. (Ø 50 mm) |

| Variants (non-magnetic) | Substitute |
|---------------------------------|------------|
| Std, female rod thread, rod end | X |
| Male rod thread, rod end | None |

For combinations of alternative cylinders consult our Technical Service.

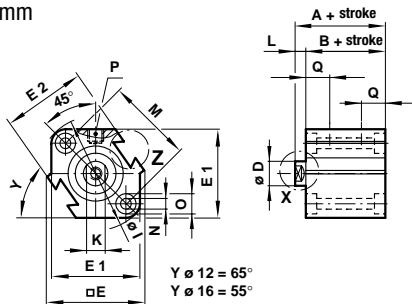
Strokes (mm)

| Ø | 5 | 10 | 20 |
|----|---|----|----|
| 12 | ● | ● | - |
| 16 | ● | ● | - |
| 20 | ● | ● | - |
| 25 | ● | ● | - |
| 32 | ● | ● | - |
| 40 | ● | ● | - |
| 50 | - | ● | ● |

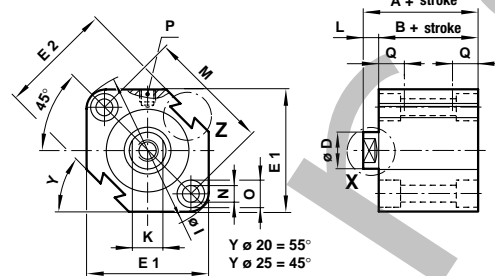
Compact interchangeable cylinders

Basic dimensions –D*/95000/X, D*/96000/X

Ø 12 ... 16 mm

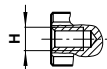


Ø 20 ... 25 mm

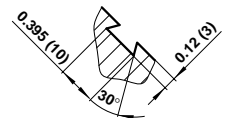


Ø 12 ... 25 mm

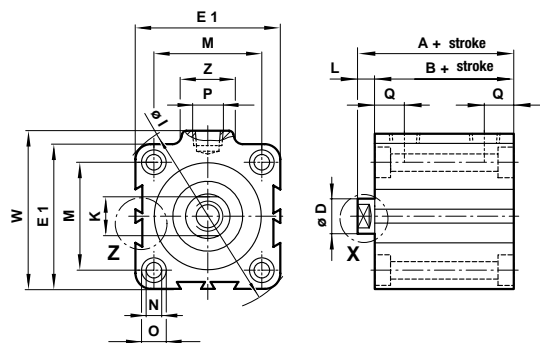
Section X



Section Z



Ø 32 ... 50 mm



Cylinder with rod end male thread

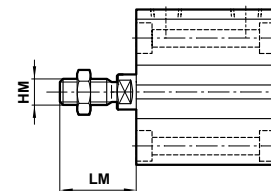
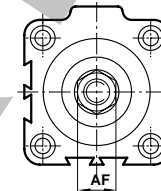
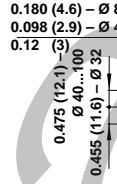
D*/95000, D*/96000

Ø 12 ... 50 mm

Section X



Section Z



| Ø | Stroke range | A | AF | B | Ø D | E | E1 | E2 |
|----|--------------|-------------|-----------|-------------|------------|-------------|-------------|-------------|
| 12 | 5 ... 10 | 0.81 (20.5) | 0.34 (8) | 0.67 (17.0) | 0.236 (6) | 1.09 (27.7) | 0.98 (25) | 0.90 (23) |
| 16 | 5 ... 10 | 0.87 (22.0) | 0.34 (10) | 0.73 (18.5) | 0.315 (8) | 1.25 (31.7) | 1.14 (29) | 1.07 (27.2) |
| 20 | 5 ... 10 | 0.94 (24.0) | 0.38 (13) | 0.77 (19.5) | 0.394 (10) | - (-) | 1.42 (36) | 1.23 (31.2) |
| 25 | 5 ... 10 | 1.08 (27.5) | 0.43 (17) | 0.86 (22.5) | 0.472 (12) | - (-) | 1.57 (40) | 1.45 (36.9) |
| 32 | 5 ... 10 | 1.18 (30.0) | 0.50 (22) | 0.91 (23.0) | 0.630 (16) | - (-) | 1.75 (44.5) | - (-) |
| 40 | 5 ... 10 | 1.44 (36.5) | 0.56 (22) | 1.16 (29.5) | 0.630 (16) | - (-) | 2.05 (52) | - (-) |
| 50 | 10 ... 20 | 1.52 (38.5) | 0.75 (27) | 1.20 (30.5) | 0.787 (20) | - (-) | 2.51 (63.7) | - (-) |

| Ø | Stroke range | H | HM | Ø I | K | L | LM | M | Ø N |
|----|--------------|------------------------------------|--------------------------------------|-------------|-----------|------------|-------------|-----------|------------|
| 12 | 5 ... 10 | #8-32 x 0.21 (M3 x 0.5-5 deep) | #8-32 x 0.31 (M5 x 0.8-9 deep) | 1.24 (31.5) | 0.20 (5) | 0.14 (3.5) | 0.45 (14) | 0.87 (22) | 0.14 (3.5) |
| 16 | 5 ... 10 | #8-32 x 0.21 (M4 x 0.7-5 deep) | #8-32 x 0.31 (M6 x 1.0-10 deep) | 1.46 (37.1) | 0.24 (6) | 0.14 (3.5) | 0.45 (15.5) | 1.10 (28) | 0.14 (3.5) |
| 20 | 5 ... 10 | #10-32 x 0.28 (M5 x 0.8-7 deep) | #10-32 x 0.31 (M8 x 1.25-12 deep) | 1.85 (47) | 0.31 (8) | 0.18 (4.5) | 0.49 (18.5) | 1.42 (36) | 0.22 (5.5) |
| 25 | 5 ... 10 | 1/4-28 x 0.39 (M6 x 1.0-10 deep) | 1/4-28 x 0.37 (M10 x 1.25-15 deep) | 2.02 (51.3) | 0.39 (10) | 0.20 (5) | 0.57 (22.5) | 1.57 (40) | 0.22 (5.5) |
| 32 | 5 ... 10 | 5/16-24 x 0.50 (M8 x 1.25-12 deep) | 5/16-24 x 0.50 (M14 x 1.5-20.5 deep) | 2.32 (58.9) | 0.55 (14) | 0.28 (7) | 0.78 (28.5) | 1.34 (34) | 0.22 (5.5) |
| 40 | 5 ... 10 | 3/8-24 x 0.50 (M8 x 1.25-12 deep) | 3/8-24 x 0.63 (M14 x 1.5-20.5 deep) | 2.72 (69) | 0.55 (14) | 0.28 (7) | 0.91 (28.5) | 1.57 (40) | 0.22 (5.5) |
| 50 | 10 ... 20 | 1/2-20 x 0.50 (M10 x 1.5-12 deep) | 1/2-20 x 0.77 (M18 x 1.5-26 deep) | 3.34 (84.9) | 0.67 (17) | 0.31 (8) | 1.08 (33.5) | 1.97 (50) | 0.26 (6.6) |

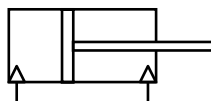
| Ø | Stroke range | Ø O | P | Q | W | Z | lb (kg) at 0 mm | lb (kg) per 5 mm |
|----|--------------|-------------------------------|----------|-------------|-------------|-------------|-----------------|------------------|
| 12 | 5 ... 10 | 0.26 x 0.14 (6.5 x 3.5 deep) | M5 x 0.8 | 0.28 (7.0) | - (-) | - (-) | 0.15 (0.07) | 0.04 (0.02) |
| 16 | 5 ... 10 | 0.26 x 0.14 (6.5 x 3.5 deep) | M5 x 0.8 | 0.31 (7.8) | - (-) | - (-) | 0.20 (0.09) | 0.04 (0.02) |
| 20 | 5 ... 10 | 0.35 x 0.28 (9.0 x 7.0 deep) | M5 x 0.8 | 0.32 (8.1) | - (-) | - (-) | 0.26 (0.12) | 0.04 (0.02) |
| 25 | 5 ... 10 | 0.35 x 0.28 (9.0 x 7.0 deep) | M5 x 0.8 | 0.33 (8.4) | - (-) | - (-) | 0.37 (0.17) | 0.07 (0.03) |
| 32 | 5 ... 10 | 0.35 x 0.28 (9.0 x 7.0 deep) | M5 x 0.8 | 0.34 (8.7) | 1.94 (49.3) | 0.84 (21.4) | 0.62 (0.28) | 0.11 (0.05) |
| 40 | 5 ... 10 | 0.35 x 0.28 (9.0 x 7.0 deep) | 1/8 | 0.36 (9.2) | 2.24 (57.0) | 0.84 (21.4) | 0.97 (0.44) | 0.13 (0.06) |
| 50 | 10 ... 20 | 0.43 x 0.31 (11.0 x 8.0 deep) | 1/4 | 0.41 (10.5) | 2.78 (70.6) | 1.04 (26.5) | 1.10 (0.50) | 0.18 (0.08) |

Dimensions in inches (mm)

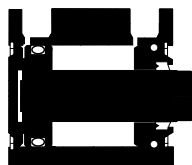
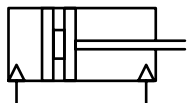
Actuators

Series 99000 Compact Actuators

Non-magnetic



Magnetic



Light weight

Compact design, which is considerably shorter than ISO/VDMA or NFPA equivalent.

Low friction characteristics for high speed operation

Duralon® rod bearing for reduced wear

Chrome plated stainless steel piston rods

Technical data

Medium:

Compressed air, filtered, lubricated or non-lubricated

Operation:

DM/99000 BSP parallel ports, double acting, non-cushioned, metric threads

DC/99000 NPT ports, double acting, non-cushioned, inch threads

Operating pressure: 14.5 to 145 psig (1 to 10 bar)

Operating temperature: -25°F to +250°F (-32°C to +121°C)

Consult our Technical Service for use below 35°F (+2°C)

Materials

Barrel: hard anodized aluminum

End caps: hard anodized aluminum alloy

Piston rod: stainless steel, hard chrome plated

Elastomers: Buna N

Options selector

★ D ★ / 99 ★ ★ ★ / ★ / ★ / ★

| Temperature | Substitute |
|---------------------------------|------------|
| High temperature (Viton® seals) | T |

| Ports | Substitute |
|--|------------|
| NPT Ports (inch threads, stroke in mm) | C |
| BSP parallel ports (metric ports, threads, stroke in mm) | M |

| Cylinder diameters (mm) | Substitute |
|-------------------------|------------|
| 12 | 012 |
| 16 | 016 |
| 20 | 020 |
| 25 | 025 |
| 32 | 032 |
| 40 | 040 |
| 50 | 050 |
| 63 | 063 |
| 80 | 080 |
| 100 | 100 |
| 125 | 125 |
| 140 | 140 |
| 160 | 160 |

| Mounting | Substitute |
|--------------------------|------------|
| Without | None |
| Foot | C |
| Flange rod end | G |
| Flange cap end | B |
| ISO Flange rod end | IG |
| ISO Flange cap end | IB |
| Rear clevis | D |
| Tapped holes - both ends | A |

| Stroke (mm) |
|----------------------------|
| 300 max. (see table below) |

| Variants (non-magnetic piston) | Substitute |
|---|------------|
| Standard, female rod thread | X |
| Male rod thread, single rod | None |
| Double ended piston rod, female rod thread | JX |
| Double ended piston rod, male thread, both ends | J |
| Non-rotating piston rod, female rod thread | N1X |
| Cylinder with guided toolplate | N3 |
| Double ended piston rod, non-rotating, female rod thread | N5X |
| Boss, rod end, female rod thread | EX |
| Boss, cap end, female rod thread | FX |
| Bumpers on both ends, female rod thread (Ø 12 ... 100 mm) | BX |
| Adjustable stroke, retract, single rod, female rod thread | SX |

| Variants (magnetic piston) | Substitute |
|---|------------|
| Standard, female rod thread | MX |
| Male rod thread, single rod | M |
| Double ended piston rod, male thread, both ends | JM |
| Double ended piston rod, female rod thread | JMX |
| Non-rotating piston rod, female rod thread | N2X |
| Cylinder with guided toolplate | N4 |
| Double ended piston rod, non-rotating, female rod thread | N6X |
| Boss, rod end, female rod thread | MEX |
| Boss, cap end, female rod thread | MFX |
| Bumpers on both ends, female rod thread (Ø 12 ... 100 mm) | MBX |
| Adjustable stroke, retract, single rod, female rod thread | MSX |

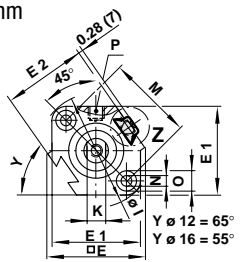
Strokes

| Ø | 5 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 75 | 100 | 125 | 150 | 175 | 200 | 250 | 300 | |
|-----|---|----|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|---|
| 12 | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| 16 | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| 20 | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| 25 | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| 32 | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| 40 | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| 50 | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| 63 | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| 80 | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| 100 | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| 125 | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| 140 | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| 160 | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |

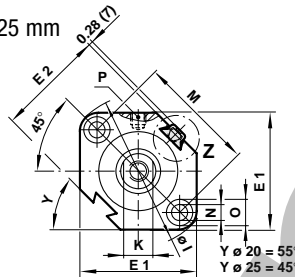
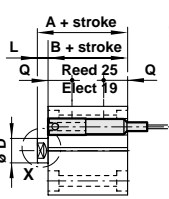
For combinations of alternative cylinders consult our Technical Service.

Basic dimensions – DM/99000/X (Non-magnetic) DM/99000/MX (Magnetic)

Ø 12 ... 16 mm



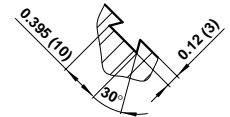
Ø 20 ... 25 mm



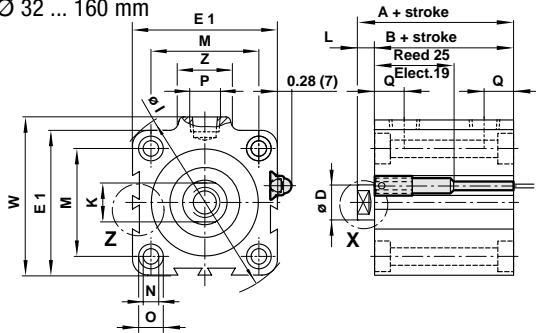
Ø 12 ... 25 mm

Section X

Section Z

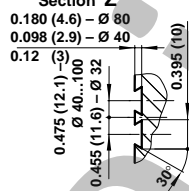


Ø 32 ... 160 mm



Section X

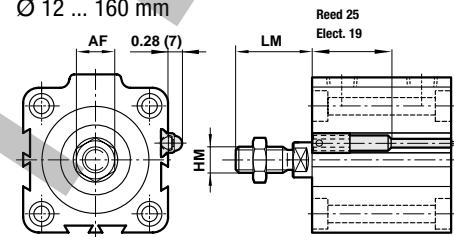
Section Z



Cylinder with rod end male thread

D*/99000/M

Ø 12 ... 160 mm



| Ø | Stroke range | A non-mag | A mag | AF | B non-mag | B mag | Ø D | E | E1 | E2 |
|-----|--------------|-------------|-------------|-----------|-------------|-------------|------------|-------------|--------------|-------------|
| 12 | 5 ... 30 | 0.81 (20.5) | 1.24 (31.5) | 0.34 (8) | 0.67 (17) | 1.10 (28) | 0.236 (6) | 1.09 (27.7) | 0.98 (25) | 0.90 (23) |
| 16 | 5 ... 30 | 0.87 (22) | 1.34 (34) | 0.34 (10) | 0.73 (18.5) | 1.20 (30.5) | 0.315 (8) | 1.25 (31.7) | 1.14 (29) | 1.07 (27.2) |
| 20 | 5 ... 50 | 0.94 (24) | 1.42 (36) | 0.38 (13) | 0.77 (19.5) | 1.24 (31.5) | 0.394 (10) | - (-) | 1.42 (36) | 1.23 (31.2) |
| 25 | 5 ... 50 | 1.08 (27.5) | 1.48 (37.5) | 0.43 (17) | 0.86 (22.5) | 1.28 (32.5) | 0.472 (12) | - (-) | 1.57 (40) | 1.45 (36.9) |
| 32 | 5 ... 50 | 1.18 (30) | 1.57 (40) | 0.50 (22) | 0.91 (23) | 1.30 (33) | 0.630 (16) | - (-) | 1.75 (44.5) | - |
| 40 | 5 ... 50 | 1.44 (36.5) | 1.83 (46.5) | 0.56 (22) | 1.16 (29.5) | 1.56 (39.5) | 0.630 (16) | - (-) | 2.05 (52) | - |
| 50 | 10 ... 50 | 1.52 (38.5) | 1.91 (48.5) | 0.75 (27) | 1.20 (30.5) | 1.59 (40.5) | 0.787 (20) | - (-) | 2.51 (63.7) | - |
| 63 | 10 ... 50 | 1.73 (44) | 2.13 (54) | 0.75 (27) | 1.42 (36) | 1.81 (46) | 0.787 (20) | - (-) | 3.02 (76.7) | - |
| 80 | 10 ... 50 | 2.11 (53.5) | 2.50 (63.5) | 0.93 (32) | 1.71 (43.5) | 2.11 (53.5) | 0.984 (25) | - (-) | 3.85 (97.8) | - |
| 100 | 10 ... 50 | 2.56 (65) | 2.95 (75) | 1.13 (46) | 2.09 (53) | 2.48 (63) | 1.181 (30) | - (-) | 4.54 (115.3) | - |
| 125 | 10 ... 300 | 3.90 (99) | 3.90 (99) | 1.13 (46) | 3.27 (83) | 3.27 (83) | 1.417 (36) | - (-) | 5.59 (142) | - |
| 140 | 10 ... 300 | 3.90 (99) | 3.90 (99) | 1.13 (46) | 3.27 (83) | 3.27 (83) | 1.417 (36) | - (-) | 6.22 (158) | - |
| 160 | 10 ... 300 | 4.25 (108) | 4.25 (108) | 1.35 (55) | 3.58 (91) | 3.58 (91) | 1.575 (40) | - (-) | 7.01 (178) | - |

| Ø | Stroke range | H | HM | Ø I | K | L | LM | M |
|-----|--------------|------------------------------------|--------------------------------------|--------------|-----------|------------|-------------|------------|
| 12 | 5 ... 30 | #8-32 x 0.21 (M3 x 0.5-5 deep) | #8-32 x 0.31 (M5 x 0.8-9 deep) | 1.24 (31.5) | 0.20 (5) | 0.14 (3.5) | 0.45 (14) | 0.87 (22) |
| 16 | 5 ... 30 | #8-32 x 0.21 (M4 x 0.7-5 deep) | #8-32 x 0.31 (M6 x 1.0-10 deep) | 1.46 (37.1) | 0.24 (6) | 0.14 (3.5) | 0.45 (15.5) | 1.10 (28) |
| 20 | 5 ... 50 | #10-32 x 0.28 (M5 x 0.8-7 deep) | #10-32 x 0.31 (M8 x 1.25-12 deep) | 1.85 (47) | 0.31 (8) | 0.18 (4.5) | 0.49 (18.5) | 1.42 (36) |
| 25 | 5 ... 50 | 1/4-28 x 0.39 (M6 x 1.0-10 deep) | 1/4-28 x 0.37 (M10 x 1.25-15 deep) | 2.02 (51.3) | 0.39 (10) | 0.20 (5) | 0.57 (22.5) | 1.57 (40) |
| 32 | 5 ... 50 | 5/16-24 x 0.50 (M8 x 1.25-12 deep) | 5/16-24 x 0.50 (M14 x 1.5-20.5 deep) | 2.32 (58.9) | 0.55 (14) | 0.28 (7) | 0.78 (28.5) | 1.34 (34) |
| 40 | 5 ... 50 | 3/8-24 x 0.50 (M8 x 1.25-12 deep) | 3/8-24 x 0.63 (M14 x 1.5-20.5 deep) | 2.72 (69) | 0.55 (14) | 0.28 (7) | 0.91 (28.5) | 1.57 (40) |
| 50 | 10 ... 50 | 1/2-20 x 0.50 (M10 x 1.5-12 deep) | 1/2-20 x 0.77 (M18 x 1.5-26 deep) | 3.34 (84.9) | 0.67 (17) | 0.31 (8) | 1.08 (33.5) | 1.97 (50) |
| 63 | 10 ... 50 | 1/2-20 x 0.50 (M10 x 1.5-12 deep) | 1/2-20 x .77 (M18 x 1.5-26 deep) | 4.01 (101.8) | 0.67 (17) | 0.31 (8) | 1.08 (33.5) | 2.36 (60) |
| 80 | 10 ... 50 | 5/8-18 x 0.88 (M16 x 2.0-22 deep) | 5/8-18 x 1.00 (M22 x 1.5-32.5 deep) | 5.11 (129.8) | 0.87 (22) | 0.39 (10) | 1.40 (43.5) | 3.03 (77) |
| 100 | 10 ... 50 | 3/4-16 x 0.88 (M20 x 2.5-22 deep) | 3/4-16 x 1.12 (M26 x 1.5-32.5 deep) | 6.06 (153.9) | 1.06 (27) | 0.47 (12) | 1.59 (43.5) | 3.70 (94) |
| 125 | 10 ... 300 | 3/4-16 x 1.06 (M22 x 2.5-27 deep) | 3/4-16 x 1.12 (M30 x 1.5-42 deep) | 7.48 (190) | 1.26 (32) | 0.63 (16) | 1.75 (58) | 4.49 (114) |
| 140 | 10 ... 300 | 3/4-16 x 1.06 (M22 x 2.5-27 deep) | 3/4-16 x 1.12 (M30 x 1.5-42 deep) | 8.27 (210) | 1.26 (32) | 0.63 (16) | 1.75 (58) | 5.04 (128) |
| 160 | 10 ... 300 | 3/4-16 x 1.06 (M24 x 3.0-27 deep) | 3/4-16 x 1.12 (M36 x 1.5-47 deep) | 9.37 (238) | 1.42 (36) | 0.67 (17) | 1.79 (64) | 5.67 (144) |

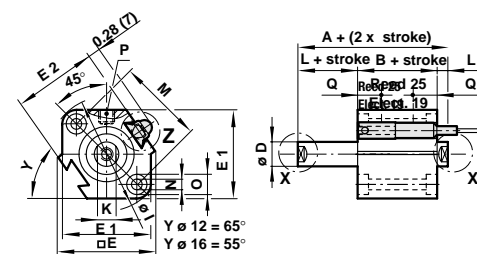
| Ø | Stroke range | Ø N | Ø O | P* | Q | W | Z |
|-----|--------------|-------------|--------------------------------|----------|-------------|--------------|-------------|
| 12 | 5 ... 30 | 0.14 (3.5) | 0.26 x 0.14 (6.5 x 3.5 deep) | M5 x 0.8 | 0.28 (7) | - (-) | - (-) |
| 16 | 5 ... 30 | 0.14 (3.5) | 0.26 x 0.14 (6.5 x 3.5 deep) | M5 x 0.8 | 0.31 (7.8) | - (-) | - (-) |
| 20 | 5 ... 50 | 0.22 (5.5) | 0.35 x 0.28 (9.0 x 7.0 deep) | M5 x 0.8 | 0.32 (8.1) | - (-) | - (-) |
| 25 | 5 ... 50 | 0.22 (5.5) | 0.35 x 0.28 (9.0 x 7.0 deep) | M5 x 0.8 | 0.33 (8.4) | - (-) | - (-) |
| 32 | 5 ... 50 | 0.22 (5.5) | 0.35 x 0.28 (9.0 x 7.0 deep) | 1/8* | 0.34 (8.7) | 1.94 (49.3) | 0.84 (21.4) |
| 40 | 5 ... 50 | 0.22 (5.5) | 0.35 x 0.28 (9.0 x 7.0 deep) | 1/8* | 0.36 (9.2) | 2.24 (57) | 0.84 (21.4) |
| 50 | 10 ... 50 | 0.26 (6.6) | 0.43 x 0.31 (11.0 x 8.0 deep) | 1/4* | 0.41 (10.5) | 2.78 (70.6) | 1.04 (26.5) |
| 63 | 10 ... 50 | 0.35 (9) | 0.55 x 0.41 (14.0 x 10.5 deep) | 1/4* | 0.45 (11.5) | 3.29 (83.6) | 1.04 (26.5) |
| 80 | 10 ... 50 | 0.43 (11) | 0.69 x 0.53 (17.5 x 13.5 deep) | 3/8* | 0.55 (14.0) | 4.09 (104) | 1.18 (30) |
| 100 | 10 ... 50 | 0.43 (11) | 0.69 x 0.53 (17.5 x 13.5 deep) | 3/8* | 0.71 (18) | 4.80 (121.9) | 1.18 (30) |
| 125 | 10 ... 300 | 0.50 (12.7) | 0.83 x 0.72 (21.2 x 18.4 deep) | 3/8* | 0.96 (24.5) | 6.02 (153) | 1.53 (39) |
| 140 | 10 ... 300 | 0.50 (12.7) | 0.83 x 0.72 (21.2 x 18.4 deep) | 3/8* | 0.96 (24.5) | 6.61 (168) | 1.53 (39) |
| 160 | 10 ... 300 | 0.57 (14.5) | 0.95 x 0.83 (24.2 x 21.2 deep) | 3/8* | 1.08 (27.5) | 7.40 (188) | 1.53 (39) |

* Port sizes: DM/99000/... = G (BSP parallel ports), DC/99000/... = NPT (NPT ports). Note: M5 x 0.8 port will accept #10-32 male thread fittings. Dimensions in inches (mm)

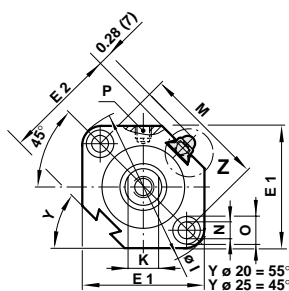
Actuators

Double ended piston rod – DM/99000/JX (Non-magnetic) & DM/99000/JMX (Magnetic)

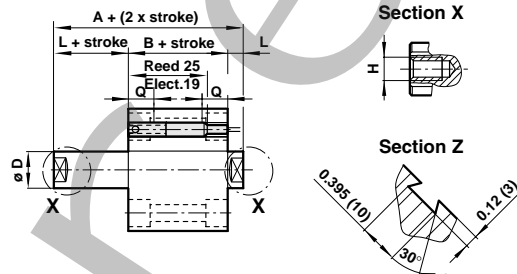
Ø 12 ... 16 mm



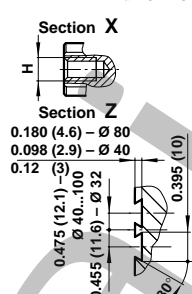
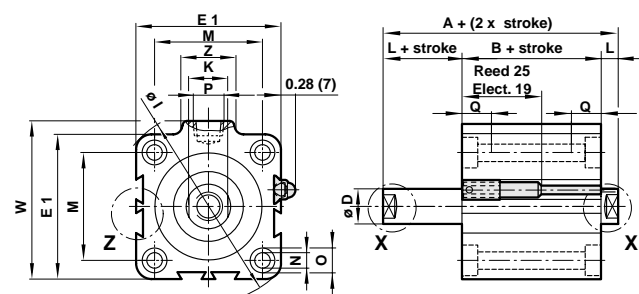
Ø 20 ... 25 mm



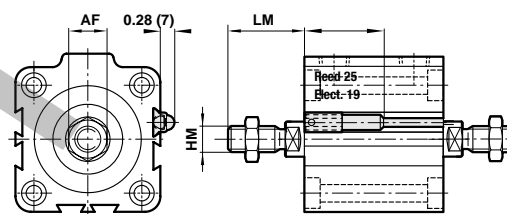
Ø 12 ... 25 mm



Ø 32 ... 160 mm



Cylinder with rod end male thread
D*/99000/JM Ø 12 ... 160 mm



| Ø | Stroke range | A non-mag | A mag | AF | B non-mag | B mag | Ø D | E | E1 | E2 |
|-----|--------------|-------------|-------------|-----------|-------------|-------------|------------|-------------|--------------|-------------|
| 12 | 5 ... 30 | 1.27 (32.2) | 1.55 (39.4) | 0.34 (8) | 0.99 (25.2) | 1.28 (32.4) | 0.236 (6) | 1.09 (27.7) | 0.98 (25) | 0.90 (23) |
| 16 | 5 ... 30 | 1.30 (33.0) | 1.69 (43.0) | 0.34 (10) | 1.02 (26.0) | 1.42 (36.0) | 0.315 (8) | 1.25 (31.7) | 1.14 (29) | 1.07 (27.2) |
| 20 | 5 ... 50 | 1.38 (35.0) | 1.85 (47.0) | 0.38 (13) | 1.02 (26.0) | 1.50 (38.0) | 0.394 (10) | - | 1.42 (36) | 1.23 (31.2) |
| 25 | 5 ... 50 | 1.54 (39.0) | 1.93 (49.0) | 0.43 (17) | 1.14 (29.0) | 1.54 (39) | 0.472 (12) | - | 1.57 (40) | 1.45 (36.9) |
| 32 | 5 ... 50 | 1.75 (44.5) | 2.15 (54.5) | 0.50 (22) | 1.20 (30.5) | 1.59 (40.5) | 0.630 (16) | - | 1.75 (44.5) | - |
| 40 | 5 ... 50 | 2.13 (54.0) | 2.52 (64.0) | 0.56 (22) | 1.57 (40.0) | 1.97 (50.0) | 0.630 (16) | - | 2.05 (52) | - |
| 50 | 10 ... 50 | 2.22 (56.5) | 2.62 (66.5) | 0.75 (27) | 1.59 (40.5) | 1.99 (50.5) | 0.787 (20) | - | 2.51 (63.7) | - |
| 63 | 10 ... 50 | 2.28 (58.0) | 2.68 (68.0) | 0.75 (27) | 1.65 (42.0) | 2.05 (52.0) | 0.787 (20) | - | 3.02 (76.7) | - |
| 80 | 10 ... 50 | 2.80 (71.0) | 3.19 (81.0) | 0.93 (32) | 2.01 (2.38) | 2.40 (61.0) | 0.984 (25) | - | 3.85 (97.8) | - |
| 100 | 10 ... 50 | 3.33 (84.5) | 3.72 (94.5) | 1.13 (46) | 2.38 (60.5) | 2.78 (70.5) | 1.181 (30) | - | 4.54 (115.3) | - |
| 125 | 10 ... 300 | 4.53 (115) | 4.53 (115) | 1.13 (46) | 3.27 (83.0) | 3.27 (83.0) | 1.417 (36) | - | 5.59 (142) | - |
| 140 | 10 ... 300 | 4.53 (115) | 4.53 (115) | 1.13 (46) | 3.27 (83.0) | 3.27 (83.0) | 1.417 (36) | - | 6.22 (158) | - |
| 160 | 10 ... 300 | 4.53 (125) | 4.92 (125) | 1.35 (55) | 3.58 (91.0) | 3.58 (91.0) | 1.575 (40) | - | 7.01 (178) | - |

| Ø | Stroke range | H | HM | Ø I | K | L | LM | M |
|-----|--------------|-----------------------------------|--------------------------------------|--------------|-----------|------------|-------------|------------|
| 12 | 5 ... 30 | #8-32 x .21 (M3 x 0.5-5 deep) | #8-32 x 0.31 (M5 x 0.8-9 deep) | 1.24 (31.5) | 0.20 (5) | 0.14 (3.5) | 0.45 (14) | 0.87 (22) |
| 16 | 5 ... 30 | #8-32 x .21 (M4 x 0.7-5 deep) | #8-32 x 0.31 (M6 x 1.0-10 deep) | 1.46 (37.1) | 0.24 (6) | 0.14 (3.5) | 0.45 (15.5) | 1.10 (28) |
| 20 | 5 ... 50 | #10-32 x .28 (M5 x 0.8-7 deep) | #10-32 x 0.31 (M8 x 1.25-12 deep) | 1.85 (47) | 0.31 (8) | 0.18 (4.5) | 0.49 (18.5) | 1.42 (36) |
| 25 | 5 ... 50 | 1/4-28 x .39 (M6 x 1.0-10 deep) | 1/4-28 x 0.37 (M10 x 1.25-15 deep) | 2.02 (51.3) | 0.39 (10) | 0.20 (5) | 0.57 (22.5) | 1.57 (40) |
| 32 | 5 ... 50 | 5/16-24 x .50 (M8 x 1.25-12 deep) | 5/16-24 x 0.50 (M14 x 1.5-20.5 deep) | 2.32 (58.9) | 0.55 (14) | 0.28 (7) | 0.78 (28.5) | 1.34 (34) |
| 40 | 5 ... 50 | 3/8-24 x .50 (M8 x 1.25-12 deep) | 3/8-24 x 0.63 (M14 x 1.5-20.5 deep) | 2.72 (69) | 0.55 (14) | 0.28 (7) | 0.91 (28.5) | 1.57 (40) |
| 50 | 10 ... 50 | 1/2-20 x .50 (M10 x 1.5-12 deep) | 1/2-20 x 0.77 (M18 x 1.5-26 deep) | 3.34 (84.9) | 0.67 (17) | 0.31 (8) | 1.08 (33.5) | 1.97 (50) |
| 63 | 10 ... 50 | 1/2-20 x .50 (M10 x 1.5-12 deep) | 1/2-20 x .77 (M18 x 1.5-26 deep) | 4.01 (101.8) | 0.67 (17) | 0.31 (8) | 1.08 (33.5) | 2.36 (60) |
| 80 | 10 ... 50 | 5/8-18 x .88 (M16 x 2.0-22 deep) | 5/8-18 x 1.00 (M22 x 1.5-32.5 deep) | 5.11 (129.8) | 0.87 (22) | 0.39 (10) | 1.40 (43.5) | 3.03 (77) |
| 100 | 10 ... 50 | 3/4-16 x .88 (M20 x 2.5-22 deep) | 3/4-16 x 1.12 (M26 x 1.5-32.5 deep) | 6.06 (153.9) | 1.06 (27) | 0.47 (12) | 1.59 (43.5) | 3.70 (94) |
| 125 | 10 ... 300 | 3/4-16 x 1.06 (M22 x 2.5-27 deep) | 3/4-16 x 1.12 (M30 x 1.5-42 deep) | 7.48 (190) | 1.26 (32) | 0.63 (16) | 1.75 (58) | 4.49 (114) |
| 140 | 10 ... 300 | 3/4-16 x 1.06 (M22 x 2.5-27 deep) | 3/4-16 x 1.12 (M30 x 1.5-42 deep) | 8.27 (210) | 1.26 (32) | 0.63 (16) | 1.75 (58) | 5.04 (128) |
| 160 | 10 ... 300 | 3/4-16 x 1.06 (M24 x 3.0-27 deep) | 3/4-16 x 1.12 (M36 x 1.5-47 deep) | 9.37 (238) | 1.42 (36) | 0.67 (17) | 1.79 (64) | 5.67 (144) |

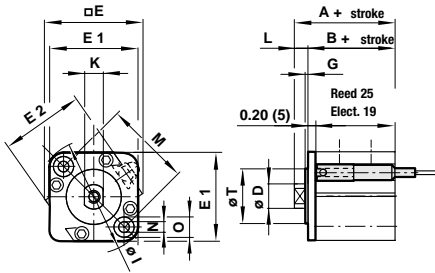
| Ø | Stroke range | Ø N | Ø O | P* | Q | W | Z |
|-----|--------------|-------------|--------------------------------|----------|-------------|--------------|-------------|
| 12 | 5 ... 30 | 0.14 (3.5) | 0.26 x 0.14 (6.5 x 3.5 deep) | M5 x 0.8 | 0.28 (7.0) | - | - |
| 16 | 5 ... 30 | 0.14 (3.5) | 0.26 x 0.14 (6.5 x 3.5 deep) | M5 x 0.8 | 0.31 (7.8) | - | - |
| 20 | 5 ... 50 | 0.22 (5.5) | 0.35 x 0.28 (9.0 x 7.0 deep) | M5 x 0.8 | 0.32 (8.1) | - | - |
| 25 | 5 ... 50 | 0.22 (5.5) | 0.35 x 0.28 (9.0 x 7.0 deep) | M5 x 0.8 | 0.33 (8.4) | - | - |
| 32 | 5 ... 50 | 0.22 (5.5) | 0.35 x 0.28 (9.0 x 7.0 deep) | 1/8* | 0.34 (8.7) | 1.94 (49.3) | 0.84 (21.4) |
| 40 | 5 ... 50 | 0.22 (5.5) | 0.35 x 0.28 (9.0 x 7.0 deep) | 1/8* | 0.36 (9.2) | 2.24 (57.0) | 0.84 (21.4) |
| 50 | 10 ... 50 | 0.26 (6.6) | 0.43 x 0.31 (11.0 x 8.0 deep) | 1/4* | 0.41 (10.5) | 2.78 (70.6) | 1.04 (26.5) |
| 63 | 10 ... 50 | 0.35 (9) | 0.55 x 0.41 (14.0 x 10.5 deep) | 1/4* | 0.45 (11.5) | 3.29 (83.6) | 1.04 (26.5) |
| 80 | 10 ... 50 | 0.43 (11) | 0.69 x 0.53 (17.5 x 13.5 deep) | 3/8* | 0.55 (14.0) | 4.09 (104) | 1.18 (30.0) |
| 100 | 10 ... 50 | 0.43 (11) | 0.69 x 0.53 (17.5 x 13.5 deep) | 3/8* | 0.71 (18.0) | 4.80 (121.9) | 1.18 (30.0) |
| 125 | 10 ... 300 | 0.50 (12.7) | 0.83 x 0.72 (21.2 x 18.4 deep) | 3/8* | 0.96 (24.5) | 6.02 (153) | 1.53 (39.0) |
| 140 | 10 ... 300 | 0.50 (12.7) | 0.83 x 0.72 (21.2 x 18.4 deep) | 3/8* | 0.96 (24.5) | 6.61 (168) | 1.53 (39.0) |
| 160 | 10 ... 300 | 0.57 (14.5) | 0.95 x 0.83 (24.2 x 21.2 deep) | 3/8* | 1.08 (27.5) | 7.40 (188) | 1.53 (39.0) |

* Port sizes: DM/99000/... = G (BSP parallel ports), DC/99000/... = NPT (NPT ports). Note: M5 x 0.8 port will accept #10-32 male thread fittings.

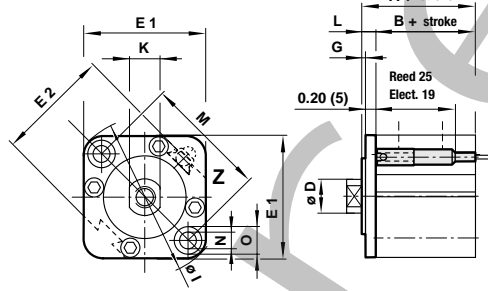
Dimensions in inches (mm)

Cylinders with non-rotating piston rod – DM/99000/N1X (Non-magnetic), DM/99000/N2X (Magnetic)

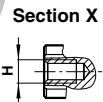
Ø 12 ... 16 mm



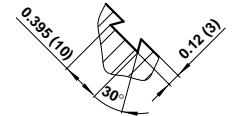
Ø 20 ... 25 mm



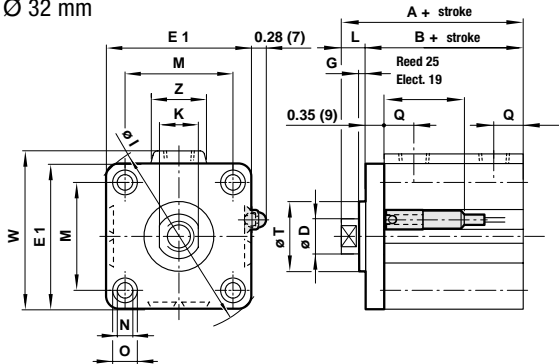
Ø 12 ... 25 mm



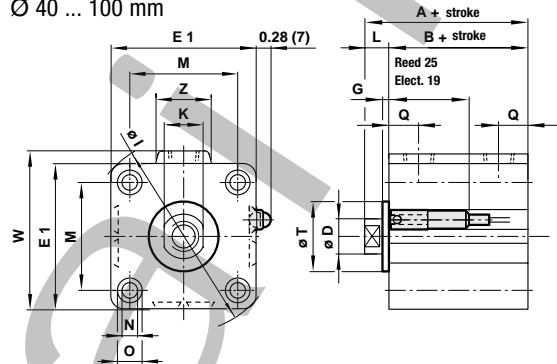
Section Z



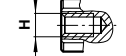
Ø 32 mm



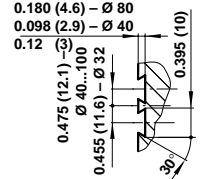
Ø 40 ... 100 mm



Section X



Section Z



WARNING: This cylinder has a non-rotating rod. To prevent internal damage hold rod by flats ONLY WHEN FULLY RETRACTED while installing or removing attachments. DO NOT SCRATCH OR DENT SHAFT.

| Ø | Stroke range | A non-mag | A mag | AF | B non-mag | B mag | Ø D | E | E1 | E2 | G |
|-----|--------------|------------------------------------|--------------------------------------|--------------|--------------------------|-------------|-------------|-------------|--------------|-------------|-------------|
| 12 | 5 ... 30 | 1.00 (25.5) | 1.44 (36.5) | 0.34 (8) | 0.87 (22.0) | 1.30 (33.0) | 0.236 (6) | 1.09 (27.7) | 0.98 (25) | 0.90 (23) | 0.059 (1.5) |
| 16 | 5 ... 30 | 1.06 (27.0) | 1.54 (39.0) | 0.34 (10) | 0.93 (23.5) | 1.40 (35.5) | 0.315 (8) | 1.25 (31.7) | 1.14 (29) | 1.07 (27.2) | 0.059 (1.5) |
| 20 | 5 ... 50 | 1.26 (32.0) | 1.73 (44.0) | 0.38 (13) | 1.08 (27.5) | 1.56 (39.5) | 0.394 (10) | - | 1.42 (36) | 1.23 (31.2) | 0.079 (2.0) |
| 25 | 5 ... 50 | 1.40 (35.5) | 1.79 (45.5) | 0.43 (17) | 1.20 (30.5) | 1.59 (40.5) | 0.472 (12) | - | 1.57 (40) | 1.45 (36.9) | 0.079 (2.0) |
| 32 | 5.10 ... 50 | 1.54 (39.0) | 1.93 (49.0) | 0.50 (22) | 1.26 (32.0) | 1.65 (42.0) | 0.630 (16) | - | 1.75 (44.5) | - | 0.079 (2.0) |
| 40 | 5 ... 50 | 1.44 (36.5) | 1.83 (46.5) | 0.56 (22) | 1.16 (29.5) | 1.56 (39.5) | 0.630 (16) | - | 2.05 (52) | - | 0.079 (2.0) |
| 50 | 10 ... 50 | 1.52 (38.5) | 1.91 (48.5) | 0.75 (27) | 1.20 (30.5) | 1.59 (40.5) | 0.787 (20) | - | 2.51 (63.7) | - | 0.079 (2.0) |
| 63 | 10 ... 50 | 1.73 (44.0) | 2.13 (54.0) | 0.75 (27) | 1.42 (36.5) | 1.81 (46.0) | 0.787 (20) | - | 3.02 (76.7) | - | 0.079 (2.0) |
| 80 | 10 ... 50 | 2.11 (53.5) | 2.50 (63.5) | 0.93 (32) | 1.71 (43.5) | 2.11 (53.5) | 0.984 (25) | - | 3.85 (97.8) | - | 0.079 (2.0) |
| 100 | 10 ... 50 | 2.56 (65.0) | 2.95 (75.0) | 1.13 (46) | 2.09 (53.0) | 2.48 (63.0) | 1.181 (30) | - | 4.54 (115.3) | - | 0.079 (2.0) |
| Ø | Stroke range | H | HM | Ø I | K | L | LM | M | Ø N | | |
| 12 | 5 ... 30 | #8-32 x 0.21 (M3 x 0.5-5 deep) | #8-32 x 0.31 (M5 x 0.8-9 deep) | 1.24 (31.5) | 0.20 (5.2) | 0.14 (3.5) | 0.45 (14) | 0.87 (22) | 0.14 (3.5) | | |
| 16 | 5 ... 30 | #8-32 x 0.21 (M4 x 0.7-5 deep) | #8-32 x 0.31 (M6 x 1.0-10 deep) | 1.46 (37.1) | 0.24 (6) | 0.14 (3.5) | 0.45 (15.5) | 1.10 (28) | 0.14 (3.5) | | |
| 20 | 5 ... 50 | #10-32 x 0.28 (M5 x 0.8-7 deep) | #10-32 x 0.31 (M8 x 1.25-12 deep) | 1.85 (47) | 0.31 (8) | 0.18 (4.5) | 0.49 (18.5) | 1.42 (36) | 0.22 (5.5) | | |
| 25 | 5 ... 50 | 1/4-28 x 0.39 (M6 x 1.0-10 deep) | 1/4-28 x 0.37 (M10 x 1.25-15 deep) | 2.02 (51.3) | 0.39 (10) | 0.20 (5) | 0.57 (22.5) | 1.57 (40) | 0.22 (5.5) | | |
| 32 | 5.10 ... 50 | 5/16-24 x 0.50 (M8 x 1.25-12 deep) | 5/16-24 x 0.50 (M14 x 1.5-20.5 deep) | 2.32 (58.9) | 0.55 (14) | 0.28 (7) | 0.78 (28.5) | 1.34 (34) | 0.22 (5.5) | | |
| 40 | 5 ... 50 | 3/8-24 x 0.50 (M8 x 1.25-12 deep) | 3/8-24 x 0.63 (M14 x 1.5-20.5 deep) | 2.72 (69) | 0.55 (14) | 0.28 (7) | 0.91 (28.5) | 1.57 (40) | 0.22 (5.5) | | |
| 50 | 10 ... 50 | 1/2-20 x 0.50 (M10 x 1.5-12 deep) | 1/2-20 x 0.77 (M18 x 1.5-26 deep) | 3.34 (84.9) | 0.71 (18) | 0.31 (8) | 1.08 (33.5) | 1.97 (50) | 0.26 (6.6) | | |
| 63 | 10 ... 50 | 1/2-20 x 0.50 (M10 x 1.5-12 deep) | 1/2-20 x 0.77 (M18 x 1.5-26 deep) | 4.01 (101.8) | 0.71 (18) | 0.31 (8) | 1.08 (33.5) | 2.36 (60) | 0.35 (9) | | |
| 80 | 10 ... 50 | 5/8-18 x 0.88 (M16 x 2.0-22 deep) | 5/8-18 x 1.00 (M22 x 1.5-32.5 deep) | 5.11 (129.8) | 0.87 (22) | 0.39 (10) | 1.40 (43.5) | 3.03 (77) | 0.43 (11) | | |
| 100 | 10 ... 50 | 3/4-16 x 0.88 (M20 x 2.5-22 deep) | 3/4-16 x 1.12 (M26 x 1.5-32.5 deep) | 6.06 (153.9) | 1.06 (27) | 0.47 (12) | 1.59 (43.5) | 3.7 (94) | 0.43 (11) | | |
| Ø | Stroke range | Ø 0 | P* | Q | Ø T | W | Z | | | | |
| 12 | 5 ... 30 | 0.26 x 0.14 (6.5 x 3.5) | M5 x 0.8 | 0.28 (7.0) | 0.591 ±0.002 (15 ±0.043) | - (-) | - (-) | | | | |
| 16 | 5 ... 30 | 0.26 x 0.14 (6.5 x 3.5) | M5 x 0.8 | 0.31 (7.8) | 0.787 ±0.002 (20 ±0.052) | - (-) | - (-) | | | | |
| 20 | 5 ... 50 | 0.35 x 0.28 (9.0 x 7.0) | M5 x 0.8 | 0.32 (8.1) | 0.512 ±0.002 (13 ±0.043) | - (-) | - (-) | | | | |
| 25 | 5 ... 50 | 0.35 x 0.28 (9.0 x 7.0) | M5 x 0.8 | 0.33 (8.4) | 0.591 ±0.002 (15 ±0.043) | - (-) | - (-) | | | | |
| 32 | 5.10 ... 50 | 0.35 x 0.28 (9.0 x 7.0) | M5 x 0.8 | 0.34 (8.7) | 0.827 ±0.002 (21 ±0.062) | 1.94 (49.3) | 0.84 (21.4) | | | | |
| 40 | 5 ... 50 | 0.35 x 0.28 (9.0 x 7.0) | 1/8* | 0.36 (9.2) | 1.102 ±0.002 (28 ±0.062) | 2.24 (57.0) | 0.84 (21.4) | | | | |
| 50 | 10 ... 50 | 0.43 x 0.31 (11.0 x 8.0) | 1/4* | 0.41 (10.5) | 1.378 ±0.002 (35 ±0.062) | 2.78 (70.6) | 1.04 (26.5) | | | | |
| 63 | 10 ... 50 | 0.55 x 0.41 (14.0 x 10.5) | 1/4* | 0.45 (11.5) | 1.378 ±0.002 (35 ±0.062) | 3.29 (83.6) | 1.04 (26.5) | | | | |
| 80 | 10 ... 50 | 0.69 x 0.53 (17.5 x 13.5) | 3/8* | 0.55 (14.0) | 1.693 ±0.002 (43 ±0.062) | 4.09 (104) | 1.18 (30.0) | | | | |
| 100 | 10 ... 50 | 0.69 x 0.53 (17.5 x 13.5) | 3/8* | 0.71 (18.0) | 2.323 ±0.003 (59 ±0.074) | 4.8 (121.9) | 1.18 (30.0) | | | | |

Dimensions in inches (mm)

* Port sizes: DM/99000/... = G (BSP parallel ports), DC/99000/... = NPT (NPT ports). Note: M5 x 0.8 port will accept #10-32 male thread fittings.

Non-rotation accuracy

Deflection of the mounting plate B (°) at instroke position without load

| Ø | 12 | 16 | 20 | 25 | 32 | 40 | 50 | 63 | 80 | 100 |
|---|-----|-----|-----|-----|-------|-------|-------|-------|-------|-------|
| | ±2° | ±1° | ±1° | ±1° | ±0.8° | ±0.8° | ±0.8° | ±0.8° | ±0.8° | ±0.8° |

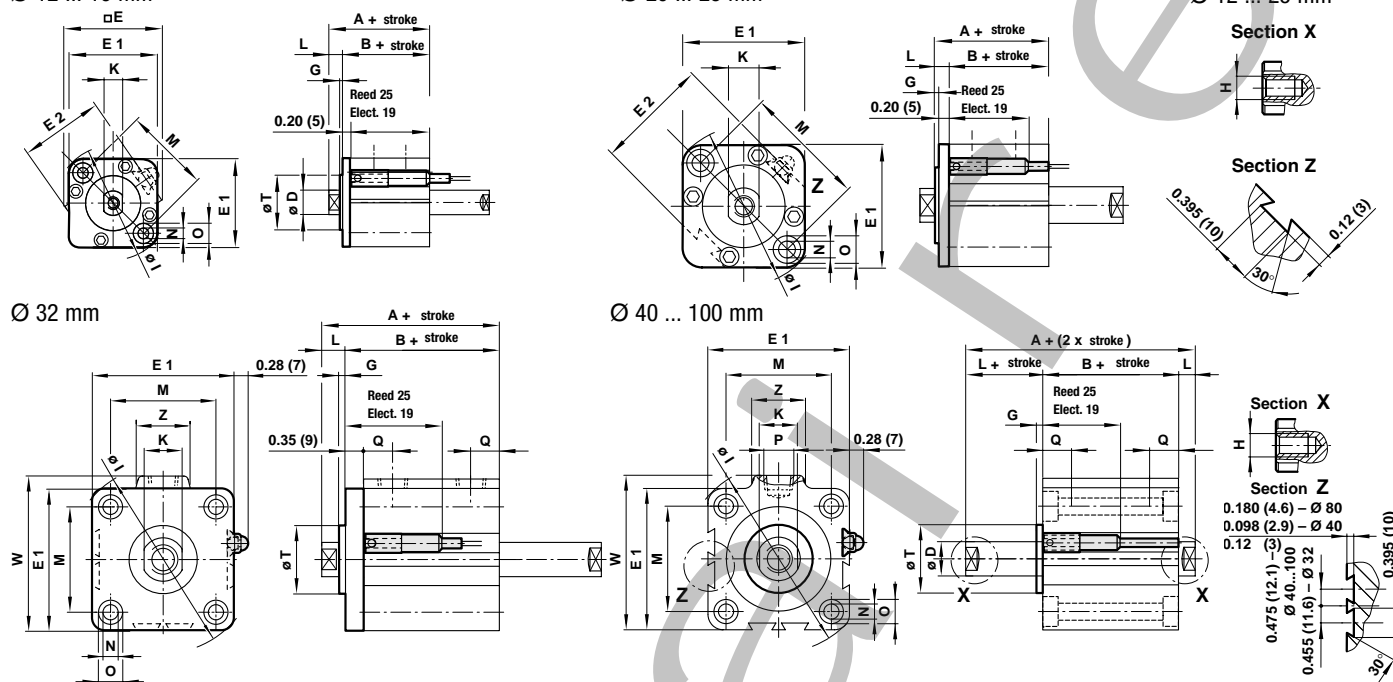
Actuators

Cylinders with non-rotating piston rod – DM/99000/N5X (Non-magnetic) & DM/99000/N6X (Magnetic)

Ø 12 ... 16 mm

Ø 20 ... 25 mm

Ø 12 ... 25 mm



WARNING: This cylinder has a non-rotating rod. To prevent internal damage hold rod by flats ONLY WHEN FULLY RETRACTED while installing or removing attachments. DO NOT SCRATCH OR DENT SHAFT.

| Ø | Stroke range | A non-mag | A mag | AF | B non-mag | B mag | Ø D | E | E1 | E2 | G |
|-----|--------------|-------------|-------------|-----------|-------------|-------------|------------|-------------|--------------|-------------|-------------|
| 12 | 5 ... 30 | 1.46 (37.2) | 1.75 (44.4) | 0.34 (8) | 1.19 (30.2) | 1.47 (37.4) | 0.236 (6) | 1.09 (27.7) | 0.98 (25) | 0.90 (23) | 0.059 (1.5) |
| 16 | 5 ... 30 | 1.50 (38.0) | 1.89 (48.0) | 0.34 (10) | 1.22 (31.0) | 1.61 (41.0) | 0.315 (8) | 1.25 (31.7) | 1.14 (29) | 1.07 (27.2) | 0.059 (1.5) |
| 20 | 5 ... 50 | 1.69 (43.0) | 2.17 (55.0) | 0.38 (13) | 1.34 (34.0) | 1.81 (46.0) | 0.394 (10) | - (-) | 1.42 (36) | 1.23 (31.2) | 0.079 (2.0) |
| 25 | 5 ... 50 | 1.85 (47.0) | 2.24 (57.0) | 0.43 (17) | 1.46 (37.0) | 1.85 (47.0) | 0.472 (12) | - (-) | 1.57 (40) | 1.45 (36.9) | 0.079 (2.0) |
| 32 | 5.10 ... 50 | 2.11 (53.5) | 2.50 (63.5) | 0.50 (22) | 1.56 (39.5) | 1.95 (49.5) | 0.630 (16) | - (-) | 1.75 (44.5) | - (-) | 0.079 (2.0) |
| 40 | 5 ... 50 | 2.13 (54.0) | 2.52 (64.0) | 0.56 (22) | 1.57 (40.0) | 1.97 (50.0) | 0.630 (16) | - (-) | 2.05 (52) | - (-) | 0.079 (2.0) |
| 50 | 10 ... 50 | 2.22 (56.5) | 2.62 (66.5) | 0.75 (27) | 1.59 (40.5) | 1.99 (50.5) | 0.787 (20) | - (-) | 2.51 (63.7) | - (-) | 0.079 (2.0) |
| 63 | 10 ... 50 | 2.28 (58.0) | 2.68 (68.0) | 0.75 (27) | 1.65 (42.0) | 2.05 (52.0) | 0.787 (20) | - (-) | 3.02 (76.7) | - (-) | 0.079 (2.0) |
| 80 | 10 ... 50 | 2.80 (71.0) | 3.19 (81.0) | 0.93 (32) | 2.01 (51.0) | 2.40 (61.0) | 0.984 (25) | - (-) | 3.85 (97.8) | - (-) | 0.079 (2.0) |
| 100 | 10 ... 50 | 3.33 (84.5) | 3.72 (94.5) | 1.13 (46) | 60.5 (2.38) | 2.78 (70.5) | 1.181 (30) | - (-) | 4.54 (115.3) | - (-) | 0.079 (2.0) |

| Ø | Stroke range | H | HM | Ø I | K | L | LM | M | Ø N |
|-----|--------------|------------------------------------|--------------------------------------|--------------|------------|------------|-------------|-----------|------------|
| 12 | 5 ... 30 | #8-32 x 0.21 (M3 x 0.5-5 deep) | #8-32 x 0.31 (M5 x 0.8-9 deep) | 1.24 (31.5) | 0.20 (5.2) | 0.14 (3.5) | 0.45 (14) | 0.87 (22) | 0.14 (3.5) |
| 16 | 5 ... 30 | #8-32 x 0.21 (M4 x 0.7-5 deep) | #8-32 x 0.31 (M6 x 1.0-10 deep) | 1.46 (37.1) | 0.24 (6) | 0.14 (3.5) | 0.45 (15.5) | 1.10 (28) | 0.14 (3.5) |
| 20 | 5 ... 50 | #10-32 x 0.28 (M5 x 0.8-7 deep) | #10-32 x 0.31 (M8 x 1.25-12 deep) | 1.85 (47) | 0.31 (8) | 0.18 (4.5) | 0.49 (18.5) | 1.42 (36) | 0.22 (5.5) |
| 25 | 5 ... 50 | 1/4-28 x 0.39 (M6 x 1.0-10 deep) | 1/4-28 x 0.37 (M10 x 1.25-15 deep) | 2.02 (51.3) | 0.39 (10) | 0.20 (5) | 0.57 (22.5) | 1.57 (40) | 0.22 (5.5) |
| 32 | 5.10 ... 50 | 5/16-24 x 0.50 (M8 x 1.25-12 deep) | 5/16-24 x 0.50 (M14 x 1.5-20.5 deep) | 2.32 (58.9) | 0.55 (14) | 0.28 (7) | 0.78 (28.5) | 1.34 (34) | 0.22 (5.5) |
| 40 | 5 ... 50 | 3/8-24 x 0.50 (M8 x 1.25-12 deep) | 3/8-24 x 0.63 (M14 x 1.5-20.5 deep) | 2.72 (69) | 0.55 (14) | 0.28 (7) | 0.91 (28.5) | 1.57 (40) | 0.22 (5.5) |
| 50 | 10 ... 50 | 1/2-20 x 0.50 (M10 x 1.5-12 deep) | 1/2-20 x 0.77 (M18 x 1.5-26 deep) | 3.34 (84.9) | 0.71 (18) | 0.31 (8) | 1.08 (33.5) | 1.97 (50) | 0.26 (6.6) |
| 63 | 10 ... 50 | 1/2-20 x 0.50 (M10 x 1.5-12 deep) | 1/2-20 x .77 (M18 x 1.5-26 deep) | 4.01 (101.8) | 0.71 (18) | 0.31 (8) | 1.08 (33.5) | 2.36 (60) | 0.35 (9) |
| 80 | 10 ... 50 | 5/8-18 x 0.88 (M16 x 2.0-22 deep) | 5/8-18 x 1.00 (M22 x 1.5-32.5 deep) | 5.11 (129.8) | 0.87 (22) | 0.39 (10) | 1.40 (43.5) | 3.03 (77) | 0.43 (11) |
| 100 | 10 ... 50 | 3/4-16 x 0.88 (M20 x 2.5-22 deep) | 3/4-16 x 1.12 (M26 x 1.5-32.5 deep) | 6.06 (153.9) | 1.06 (27) | 0.47 (12) | 1.59 (43.5) | 3.7 (94) | 0.43 (11) |

| Ø | Stroke range | Ø O | P* | Q | Ø T | W | Z |
|-----|--------------|---------------------------|----------|-------------|--------------------------|-------------|-------------|
| 12 | 5 ... 30 | 0.26 x 0.14 (6.5 x 3.5) | M5 x 0.8 | 0.28 (7.0) | 0.591 ±0.002 (15 ±0.043) | - (-) | - (-) |
| 16 | 5 ... 30 | 0.26 x 0.14 (6.5 x 3.5) | M5 x 0.8 | 0.31 (7.8) | 0.787 ±0.002 (20 ±0.052) | - (-) | - (-) |
| 20 | 5 ... 50 | 0.35 x 0.28 (9.0 x 7.0) | M5 x 0.8 | 0.32 (8.1) | 0.512 ±0.002 (13 ±0.043) | - (-) | - (-) |
| 25 | 5 ... 50 | 0.35 x 0.28 (9.0 x 7.0) | M5 x 0.8 | 0.33 (8.4) | 0.591 ±0.002 (15 ±0.043) | - (-) | - (-) |
| 32 | 5.10 ... 50 | 0.35 x 0.28 (9.0 x 7.0) | M5 x 0.8 | 0.34 (8.7) | 0.827 ±0.002 (21 ±0.062) | 1.94 (49.3) | 0.84 (21.4) |
| 40 | 5 ... 50 | 0.35 x 0.28 (9.0 x 7.0) | 1/8* | 0.36 (9.2) | 1.102 ±0.002 (28 ±0.062) | 2.24 (57.0) | 0.84 (21.4) |
| 50 | 10 ... 50 | 0.43 x 0.31 (11.0 x 8.0) | 1/4* | 0.41 (10.5) | 1.378 ±0.002 (35 ±0.062) | 2.78 (70.6) | 1.04 (26.5) |
| 63 | 10 ... 50 | 0.55 x 0.41 (14.0 x 10.5) | 1/4* | 0.45 (11.5) | 1.378 ±0.002 (35 ±0.062) | 3.29 (83.6) | 1.04 (26.5) |
| 80 | 10 ... 50 | 0.69 x 0.53 (17.5 x 13.5) | 3/8* | 0.55 (14.0) | 1.693 ±0.002 (43 ±0.062) | 4.09 (104) | 1.18 (30.0) |
| 100 | 10 ... 50 | 0.69 x 0.53 (17.5 x 13.5) | 3/8* | 0.71 (18.0) | 2.323 ±0.003 (59 ±0.074) | 4.8 (121.9) | 1.18 (30.0) |

Dimensions in inches (mm) * Port sizes: DM/99000/... = G (BSP parallel ports), DC/99000/... = NPT (NPT ports). Note: M5 x 0.8 port will accept #10-32 male thread fittings.

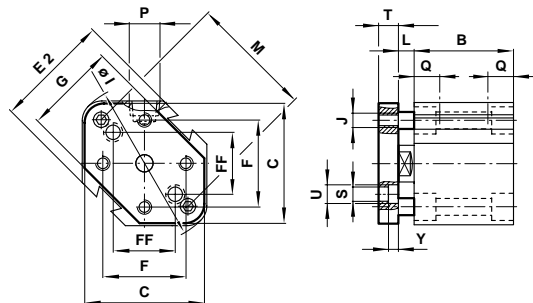
Non-rotation accuracy

Deflection of the mounting plate B (°) at instroke position without load

| Ø | 12 | 16 | 20 | 25 | 32 | 40 | 50 | 63 | 80 | 100 |
|---|-----|-----|-----|-----|-------|-------|-------|-------|-------|-------|
| | ±2° | ±1° | ±1° | ±1° | ±0.8° | ±0.8° | ±0.8° | ±0.8° | ±0.8° | ±0.8° |

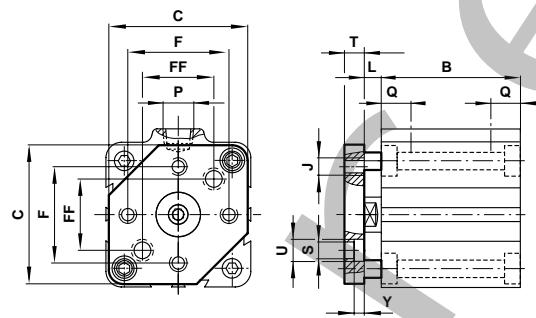
Guided toolplate – DM/99000/N3 (Non-magnetic)

Ø 12 ... 25 mm



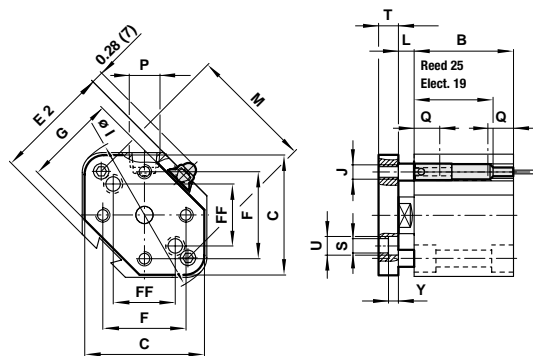
Compact interchangeable cylinders

Ø 32 ... 160 mm

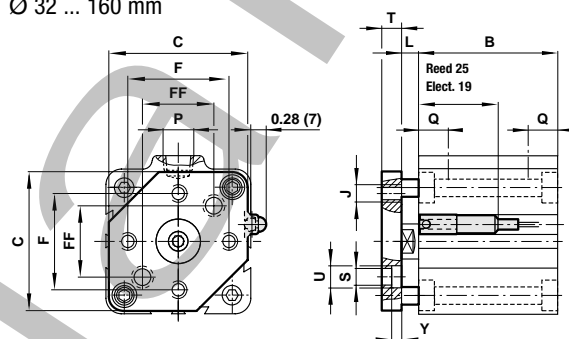


Guided toolplate – DM/99000/N4 (Magnetic)

Ø 12 ... 25 mm



Ø 32 ... 160 mm



| Ø | Stroke range | C | E1 | E2 | F | FF | G | Ø I | J | L | M |
|-----|--------------|--------------|--------------|-------------|--------------|-------------|--------------|--------------|---------|------------|----------------------|
| 12 | 5 ... 100 | 0.94 (24) | 0.98 (25) | 0.90 (23) | 0.63 (16) | — | 0.82 (20.8) | 1.24 (31.5) | 6-32 | M3 x 0.5 | 0.14 (3.5) 0.87 (22) |
| 16 | 5 ... 100 | 1.10 (28) | 1.14 (29) | 1.07 (27.2) | 0.81 (20) | 0.44 (11) | 0.98 (25) | 1.46 (37.1) | 6-32 | M4 x 0.7 | 0.14 (3.5) 1.10 (28) |
| 20 | 5 ... 100 | 1.38 (35) | 1.42 (36) | 1.23 (31.2) | 1.06 (27) | 0.57 (14.5) | 1.00 (25.4) | 1.85 (47) | 8-32 | M6 x 1.0 | 0.18 (4.5) 1.42 (36) |
| 25 | 5 ... 100 | 1.54 (40) | 1.57 (40) | 1.45 (36.9) | 1.13 (28.5) | 0.66 (16.6) | 1.18 (30) | 2.02 (51.3) | 8-32 | M6 x 1.0 | 0.20 (5) 1.57 (40) |
| 32 | 5 ... 150 | 1.71 (43.4) | 1.75 (44.5) | — | 1.19 (30) | 0.84 (21.2) | 1.44 (36.7) | 2.32 (58.9) | 10-24 | M5 x 0.8 | 0.28 (7) 1.34 (34) |
| 40 | 5 ... 150 | 2.00 (50.5) | 2.05 (52) | — | 1.38 (35) | 0.97 (24.7) | 1.78 (45.1) | 2.72 (69) | 1/4-20 | M6 x 1.0 | 0.28 (7) 1.57 (40) |
| 50 | 5 ... 150 | 2.47 (62.7) | 2.51 (63.7) | — | 1.75 (45.5) | 1.24 (32.2) | 2.25 (57.1) | 3.34 (84.9) | 5/16-18 | M8 x 1.25 | 0.31 (8) 1.97 (50) |
| 63 | 5 ... 150 | 2.98 (75.7) | 3.02 (76.7) | — | 2.00 (50.5) | 1.41 (35.7) | 2.69 (68.3) | 4.01 (101.8) | 7/16-14 | M10 x 1.5 | 0.31 (8) 2.36 (60) |
| 80 | 5 ... 150 | 3.81 (96.9) | 3.85 (97.8) | — | 2.75 (70) | 1.95 (49.5) | 3.50 (88.9) | 5.11 (129.8) | 1/2-13 | M12 x 1.75 | 0.39 (10) 3.03 (77) |
| 100 | 5 ... 150 | 4.50 (114.4) | 4.54 (115.3) | — | 3.25 (82.5) | 2.30 (58.3) | 4.45 (112.9) | 6.06 (153.9) | 1/2-13 | M12 x 1.75 | 0.47 (12) 3.70 (94) |
| 125 | 5 ... 300 | 5.55 (141) | 5.59 (142) | — | 3.74 (95) | 2.65 (67.2) | 5.30 (134.7) | 7.48 (190) | * | M14 x 2.0 | 0.63 (16) 4.49 (114) |
| 140 | 5 ... 300 | 6.18 (157) | 6.22 (158) | — | 4.00 (101.5) | 2.83 (71.8) | 6.08 (154.5) | 8.27 (210) | * | M14 x 2.0 | 0.63 (16) 5.04 (128) |
| 160 | 5 ... 300 | 6.91 (175.5) | 7.01 (178) | — | 4.74 (120.5) | 3.35 (85.2) | 6.85 (174.1) | 9.37 (238) | * | M16 x 2.0 | 0.67 (17) 5.67 (144) |

| Ø | Stroke range | N | O | P | Q | S | T | U | W | Y | Z |
|-----|--------------|-------------|-------------|--------------------|------------------|-------------|-------------|-------------|-------------|--------------|------------------------|
| 12 | 5 ... 100 | — | (—) | — | (—) | M5 x 0.8 | 0.28 (7) | — | (—) | 0.24 (6.1) | — |
| 16 | 5 ... 100 | — | (—) | 0.26 x 14 | (6.5 x 3.5 deep) | M5 x 0.8 | 0.31 (7.8) | 0.14 (3.3) | 0.24 (6.1) | — | — |
| 20 | 5 ... 100 | — | (—) | 0.35 x 0.28 | (9.0 x 7.0 deep) | M5 x 0.8 | 0.32 (8.1) | 0.17 (4.2) | 0.27 (6.9) | 0.28 (7) | — |
| 25 | 5 ... 100 | — | (—) | 0.35 x 0.28 | (9.0 x 7.0 deep) | M5 x 0.8 | 0.33 (8.4) | 0.17 (4.2) | 0.33 (8.3) | — | — |
| 32 | 5 ... 150 | 0.22 (5.5) | 0.35 x 0.28 | (9.0 x 7.0 deep) | 1/8*‡ | 0.34 (8.7) | 0.20 (5.2) | 0.33 (8.3) | — | 1.94 (49.3) | — |
| 40 | 5 ... 150 | 0.22 (5.5) | 0.35 x 0.28 | (9.0 x 7.0 deep) | 1/8* | 0.36 (9.2) | 0.26 (6.1) | 0.33 (8.3) | — | 2.24 (57) | — |
| 50 | 5 ... 150 | 0.26 (6.6) | 0.43 x 0.31 | (11.0 x 8.0 deep) | 1/4* | 0.41 (10.5) | 0.33 (8.2) | 0.48 (12.1) | 0.49 (13.5) | 2.78 (70.6) | 0.10 (2.5) 1.04 (26.5) |
| 63 | 5 ... 150 | 0.35 (9) | 0.55 x 0.41 | (14.0 x 10.5 deep) | 1/4* | 0.45 (11.5) | 0.45 (11.5) | 0.49 (12.5) | 0.68 (16.5) | 3.29 (83.6) | 0.18 (3.3) 1.04 (26.5) |
| 80 | 5 ... 150 | 0.43 (11) | 0.69 x 0.53 | (17.5 x 13.5 deep) | 3/8* | 0.55 (14) | 0.52 (12.3) | 0.55 (14) | 0.77 (18.5) | 4.09 (104) | 0.18 (3.8) 1.18 (30) |
| 100 | 5 ... 150 | 0.43 (11) | 0.69 x 0.53 | (17.5 x 13.5 deep) | 3/8* | 0.71 (18) | 0.52 (12.3) | 0.55 (14) | 0.77 (18.5) | 4.80 (121.9) | 0.13 (3.2) 1.18 (30) |
| 125 | 5 ... 300 | 0.50 (12.7) | 0.83 x 0.72 | (21.2 x 18.4 deep) | 3/8* | 0.96 (24.5) | * | (14.3) | 0.83 (21) | — | 6.02 (153) — |
| 140 | 5 ... 300 | 0.50 (12.7) | 0.83 x 0.72 | (21.2 x 18.4 deep) | 3/8* | 0.96 (24.5) | * | (14.3) | 0.83 (21) | — | 6.61 (168) — |
| 160 | 5 ... 300 | 0.57 (14.5) | 0.95 x 0.83 | (24.2 x 21.2 deep) | 3/8* | 1.08 (27.5) | * | (16.7) | 0.83 (21) | — | 7.40 (188) — |

* Port sizes: DM/99000/... = G (BSP parallel ports), DC/99000/... = NPT (NPT ports). Note: M5 x 0.8 port will accept #10-32 male thread fittings.

‡ Note: On 32 bore, 5 mm stroke, non-magnetic model only, port thread is M5 x 0.8 which will accept #10-32 male thread fittings.

Please see next page for 'B' and 'Q' dimensions.

Dimensions in inches (mm)

Actuators

| Ø Q | Stroke (mm) | | | | | | |
|-----|-------------|-------------|------------|-------------|-------------|-------------|-------------|
| | 5 ... 45 | 5 ... 100 | 50 | 75 | 100 | 125, 150 | 175 ... 300 |
| 12 | 0.28 (7) | - (-) | 0.35 (9) | 0.35 (9) | 0.35 (9) | - (-) | - (-) |
| 16 | 0.31 (8) | - (-) | 0.40 (10) | 0.40 (10) | 0.40 (10) | - (-) | - (-) |
| 20 | 0.32 (8) | - (-) | 0.32 (8) | 0.48 (12) | 0.48 (12) | - (-) | - (-) |
| 25 | 0.33 (8.5) | - (-) | 0.33 (8.5) | 0.50 (12.5) | 0.50 (12.5) | - (-) | - (-) |
| 32 | - (-) | 0.34 (9) | - (-) | - (-) | - (-) | 0.50 (12.5) | - (-) |
| 40 | - (-) | 0.36 (9) | - (-) | - (-) | - (-) | 0.50 (12.5) | - (-) |
| 50 | - (-) | 0.41 (10.5) | - (-) | - (-) | - (-) | 0.52 (13) | - (-) |
| 63 | - (-) | 0.45 (11.5) | - (-) | - (-) | - (-) | 0.73 (18.5) | - (-) |
| 80 | - (-) | 0.55 (14) | - (-) | - (-) | - (-) | 0.55 (14) | - (-) |
| 100 | - (-) | 0.71 (18) | - (-) | - (-) | - (-) | 0.71 (18) | - (-) |
| 125 | - (-) | 0.96 (24.5) | - (-) | - (-) | - (-) | 0.96 (24.5) | 0.96 (24.5) |
| 140 | - (-) | 0.96 (24.5) | - (-) | - (-) | - (-) | 0.96 (24.5) | 0.96 (24.5) |
| 160 | - (-) | 1.08 (27.5) | - (-) | - (-) | - (-) | 1.08 (27.5) | 1.08 (27.5) |

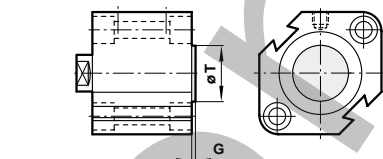
Non-magnetic piston

| Ø B | Stroke (mm) | | | | | | | | | | | | | | |
|-----|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|--------------|--------------|--------------|--|
| | 5 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 75 | 100 | 125 | 150 | |
| 12 | 1.30 (33) | 1.50 (38) | 1.69 (43) | 1.89 (48) | 2.07 (53) | 2.28 (58) | - (-) | - (-) | - (-) | 3.30 (84) | 4.28 (109) | 5.27 (134) | - (-) | - (-) | |
| 16 | 1.40 (35.5) | 1.59 (40.5) | 1.79 (45.5) | 1.99 (50.5) | 2.19 (55.5) | 2.38 (60.5) | - (-) | - (-) | - (-) | 3.39 (86) | 4.38 (111) | 5.36 (136) | - (-) | - (-) | |
| 20 | 1.44 (36.5) | 1.63 (41.5) | 1.83 (46.5) | 2.03 (51.5) | 2.22 (56.5) | 2.42 (61.5) | - (-) | - (-) | - (-) | 3.21 (81.5) | 4.59 (116.5) | 5.57 (141.5) | - (-) | - (-) | |
| 25 | 1.48 (37.5) | 1.67 (42.5) | 1.87 (47.5) | 2.07 (52.5) | 2.26 (57.5) | 2.46 (62.5) | - (-) | - (-) | - (-) | 3.25 (82.5) | 4.82 (122.5) | 5.81 (147.5) | - (-) | - (-) | |
| 32 | 1.10 (28) | 1.30 (33) | 1.50 (38) | 1.69 (43) | 1.89 (48) | 2.09 (53) | 2.28 (58) | 2.48 (63) | 2.68 (68) | 2.87 (73) | 4.25 (108) | 5.24 (133) | 6.80 (173) | 7.79 (198) | |
| 40 | 1.36 (34.5) | 1.56 (39.5) | 1.75 (44.5) | 1.95 (49.5) | 2.15 (54.5) | 2.34 (59.5) | 2.54 (64.5) | 2.74 (69.5) | 2.93 (74.5) | 3.13 (79.5) | 4.51 (114.5) | 5.49 (139.5) | 7.11 (180.5) | 8.09 (205.5) | |
| 50 | - | 1.59 (40.5) | 1.79 (45.5) | 1.99 (50.5) | 2.19 (55.5) | 2.38 (60.5) | 2.58 (65.5) | 2.78 (70.5) | 2.97 (75.5) | 3.17 (80.5) | 4.55 (115.5) | 5.53 (140.5) | 7.26 (184.5) | 8.24 (209.5) | |
| 63 | - | 1.81 (46) | 2.01 (51) | 2.20 (56) | 2.40 (61) | 2.60 (66) | 2.80 (71) | 2.99 (76) | 3.19 (81) | 3.39 (86) | 4.76 (121) | 5.75 (146) | 7.46 (189.5) | 8.49 (214.5) | |
| 80 | - | 2.11 (53.5) | 2.30 (58.5) | 2.50 (63.5) | 2.70 (68.5) | 2.89 (73.5) | 3.09 (78.5) | 3.29 (83.5) | 3.48 (88.5) | 3.68 (93.5) | 5.06 (128.5) | 6.04 (153.5) | 7.66 (194.5) | 8.64 (219.5) | |
| 100 | - | 2.48 (63) | 2.68 (68) | 2.87 (73) | 3.07 (78) | 3.27 (83) | 3.46 (88) | 3.66 (93) | 3.86 (98) | 4.06 (103) | 5.43 (138) | 6.42 (163) | 7.94 (202) | 8.93 (227) | |
| 125 | - | 3.66 (93) | - | 4.06 (103) | - | 4.45 (113) | - | 4.84 (123) | - | 5.24 (133) | 6.22 (158) | 7.20 (183) | 8.19 (208) | 9.17 (233) | |
| 140 | - | 3.66 (93) | - | 4.06 (103) | - | 4.45 (113) | - | 4.84 (123) | - | 5.24 (133) | 6.22 (158) | 7.20 (183) | 8.19 (208) | 9.17 (233) | |
| 160 | - | 3.98 (101) | - | 4.37 (111) | - | 4.76 (121) | - | 5.16 (131) | - | 5.55 (141) | 6.54 (166) | 7.52 (191) | 8.50 (216) | 9.49 (241) | |

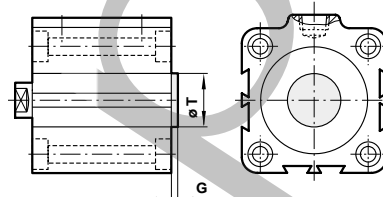
Magnetic piston

| Ø B | Stroke (mm) | | | | | | | | | | | | | | |
|-----|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|--------------|--------------|--------------|--------------|--|
| | 5 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 | 75 | 100 | 125 | 150 | |
| 12 | 1.30 (33) | 1.50 (38) | 1.69 (43) | 1.89 (48) | 2.07 (53) | 2.28 (58) | - (-) | - (-) | - (-) | 3.30 (84) | 4.28 (109) | 5.27 (134) | - (-) | - (-) | |
| 16 | 1.40 (35.5) | 1.59 (40.5) | 1.79 (45.5) | 1.99 (50.5) | 2.19 (55.5) | 2.38 (60.5) | - (-) | - (-) | - (-) | 3.39 (86) | 4.38 (111) | 5.36 (136) | - (-) | - (-) | |
| 20 | 1.44 (36.5) | 1.63 (41.5) | 1.83 (46.5) | 2.03 (51.5) | 2.22 (56.5) | 2.42 (61.5) | - (-) | - (-) | - (-) | 3.21 (81.5) | 4.59 (116.5) | 5.57 (141.5) | - (-) | - (-) | |
| 25 | 1.48 (37.5) | 1.67 (42.5) | 1.87 (47.5) | 2.07 (52.5) | 2.26 (57.5) | 2.46 (62.5) | - (-) | - (-) | - (-) | 3.25 (82.5) | 4.82 (122.5) | 5.81 (147.5) | - (-) | - (-) | |
| 32 | 1.50 (38) | 1.69 (43) | 1.89 (48) | 2.09 (53) | 2.28 (58) | 2.48 (63) | 2.68 (68) | 2.87 (73) | 3.07 (78) | 3.27 (83) | 4.25 (108) | 5.24 (133) | 6.80 (173) | 7.79 (198) | |
| 40 | 1.75 (44.5) | 1.95 (49.5) | 2.15 (54.5) | 2.34 (59.5) | 2.54 (64.5) | 2.74 (69.5) | 2.93 (74.5) | 3.13 (79.5) | 3.33 (84.5) | 3.52 (89.5) | 4.51 (114.5) | 5.49 (139.5) | 7.11 (180.5) | 8.09 (205.5) | |
| 50 | - (-) | 1.99 (50.5) | 2.19 (55.5) | 2.38 (60.5) | 2.58 (65.5) | 2.78 (70.5) | 2.97 (75.5) | 3.17 (80.5) | 3.37 (85.5) | 3.56 (90.5) | 4.55 (115.5) | 5.53 (140.5) | 7.26 (184.5) | 8.24 (209.5) | |
| 63 | - (-) | 2.20 (56) | 2.40 (61) | 2.60 (66) | 2.80 (71) | 2.99 (76) | 3.19 (81) | 3.39 (86) | 3.58 (91) | 3.78 (96) | 4.76 (121) | 5.75 (146) | 7.46 (189.5) | 8.49 (214.5) | |
| 80 | - (-) | 2.50 (63.5) | 2.70 (68.5) | 2.89 (73.5) | 3.09 (78.5) | 3.29 (83.5) | 3.48 (88.5) | 3.68 (93.5) | 3.88 (98.5) | 4.07 (103.5) | 5.06 (128.5) | 6.04 (153.5) | 7.66 (194.5) | 8.64 (219.5) | |
| 100 | - (-) | 2.87 (73) | 3.07 (78) | 3.27 (83) | 3.46 (88) | 3.66 (93) | 3.86 (98) | 4.06 (103) | 4.25 (108) | 4.45 (113) | 5.43 (138) | 6.42 (163) | 7.94 (202) | 8.93 (227) | |
| 125 | - (-) | 3.66 (93) | - (-) | 4.06 (103) | - (-) | 4.45 (113) | - (-) | 4.84 (123) | - | 5.24 (133) | 6.22 (158) | 7.20 (183) | 8.19 (208) | 9.17 (233) | |
| 140 | - (-) | 3.66 (93) | - (-) | 4.06 (103) | - (-) | 4.45 (113) | - (-) | 4.84 (123) | - | 5.24 (133) | 6.22 (158) | 7.20 (183) | 8.19 (208) | 9.17 (233) | |
| 160 | - (-) | 3.98 (101) | - (-) | 4.37 (111) | - (-) | 4.76 (121) | - (-) | 5.16 (131) | - | 5.55 (141) | 6.54 (166) | 7.52 (191) | 8.50 (216) | 9.49 (241) | |

Boss, cap end – DM/99000/FX
Ø 12 ... 25 mm

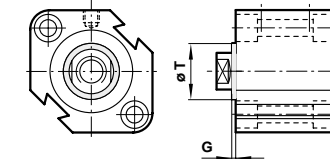


Ø 32 ... 160 mm

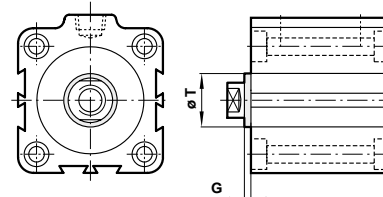


Dimensions in inches (mm)

Boss, rod end – DM/99000/EX
Ø 12 ... 25 mm



Ø 32 ... 160 mm



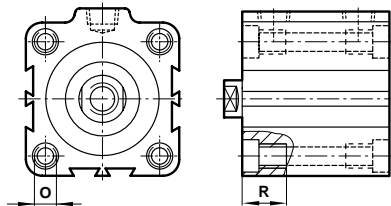
| Ø | Ø T | G |
|-----|--------------------------|-------------|
| 12 | 0.591 ±0.002 (15 ±0.043) | 0.059 (1.5) |
| 16 | 0.787 ±0.002 (20 ±0.052) | 0.059 (1.5) |
| 20 | 0.512 ±0.002 (13 ±0.043) | 0.079 (2.0) |
| 25 | 0.591 ±0.002 (15 ±0.043) | 0.079 (2.0) |
| 32 | 0.827 ±0.002 (21 ±0.062) | 0.079 (2.0) |
| 40 | 1.102 ±0.002 (28 ±0.062) | 0.079 (2.0) |
| 50 | 1.378 ±0.002 (35 ±0.062) | 0.079 (2.0) |
| 63 | 1.378 ±0.002 (35 ±0.062) | 0.079 (2.0) |
| 80 | 1.693 ±0.002 (43 ±0.062) | 0.079 (2.0) |
| 100 | 2.323 ±0.003 (59 ±0.074) | 0.079 (2.0) |

Compact interchangeable cylinders

Mountings

Tapped hole mounting both ends – A

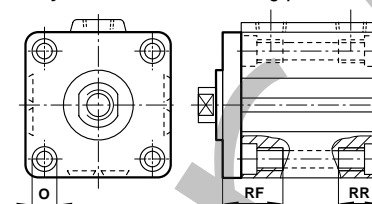
For single and double ended piston rod



| Ø | O | R | | |
|-----|---------|--------------|------|------|
| 12 | #8-32 | (M4 x 0.7) | 0.43 | (11) |
| 16 | #8-32 | (M4 x 0.7) | 0.43 | (11) |
| 16 | 1/4-20 | (M6 x 1.0) | 0.67 | (17) |
| 25 | 1/4-20 | (M6 x 1.0) | 0.67 | (17) |
| 32 | 1/4-20 | (M6 x 1.0) | 0.67 | (17) |
| 40 | 1/4-20 | (M6 x 1.0) | 0.75 | (19) |
| 50 | 5/16-18 | (M8 x 1.25) | 0.75 | (19) |
| 63 | 7/16-14 | (M10 x 1.5) | 0.87 | (22) |
| 80 | 1/2-13 | (M12 x 1.75) | 1.13 | (29) |
| 100 | 1/2-13 | (M12 x 1.75) | 1.13 | (29) |
| 125 | – | (M14 x 2.0) | – | (45) |
| 140 | – | (M14 x 2.0) | – | (45) |
| 160 | – | (M16 x 2.0) | – | (50) |

Note: Inch threads for 'C' port code.
Metric threads for 'M' port codes.
Metric for foot, flange, or clevis mount.

For cylinders with non-rotating piston rod

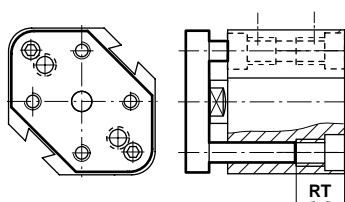


| Ø | O | | Places front | RF | Places rear | RR |
|-----|---------|--------------|--------------|-----------|-------------|-----------|
| 12 | #8-32 | (M4 x 0.7) | 2 | 0.63 (16) | 2 | 0.43 (11) |
| 16 | #8-32 | (M4 x 0.7) | 2 | 0.63 (16) | 2 | 0.43 (11) |
| 16 | 1/4-20 | (M6 x 1.0) | 2 | 0.98 (25) | 2 | 0.67 (17) |
| 25 | 1/4-20 | (M6 x 1.0) | 2 | 0.98 (25) | 2 | 0.67 (17) |
| 32 | 1/4-20 | (M6 x 1.0) | 2 | 1.02 (26) | 4 | 0.67 (17) |
| 40 | 1/4-20 | (M6 x 1.0) | 4 | 0.75 (19) | 4 | 0.75 (19) |
| 50 | 5/16-18 | (M8 x 1.25) | 4 | 0.75 (19) | 4 | 0.75 (19) |
| 63 | 7/16-14 | (M10 x 1.5) | 4 | 0.87 (22) | 4 | 0.87 (22) |
| 80 | 1/2-13 | (M12 x 1.75) | 4 | 1.13 (29) | 4 | 1.13 (29) |
| 100 | 1/2-13 | (M12 x 1.75) | 4 | 1.13 (29) | 4 | 1.13 (29) |

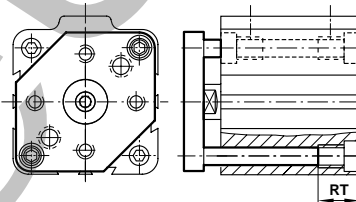
Note: Inch threads for 'C' port code.
Metric threads for 'M' port codes.
Metric for foot, flange, or clevis mount.

For cylinders with toolplate

Ø 12 25 mm



Ø 32 100 mm



| Ø | OT | RT | | |
|-----|---------|--------------|------|--------|
| 12 | #8-32 | (M4 x 0.7) | 0.38 | (9.7) |
| 16 | #8-32 | (M4 x 0.7) | 0.51 | (13) |
| 20 | 1/4-20 | (M6 x 1.0) | 0.53 | (13.5) |
| 25 | 1/4-20 | (M6 x 1.0) | 0.59 | (15) |
| 32 | 1/4-20 | (M6 x 1.0) | 0.67 | (17) |
| 40 | 1/4-20 | (M6 x 1.0) | 0.75 | (19) |
| 50 | 5/16-18 | (M8 x 1.25) | 0.75 | (19) |
| 63 | 7/16-14 | (M10 x 1.5) | 0.87 | (22) |
| 80 | 1/2-13 | (M12 x 1.75) | 1.13 | (29) |
| 100 | 1/2-13 | (M12 x 1.75) | 1.13 | (29) |
| 125 | – | (M14 x 2.0) | – | (40) |
| 140 | – | (M14 x 2.0) | – | (40) |
| 160 | – | (M16 x 2.0) | – | (45.2) |

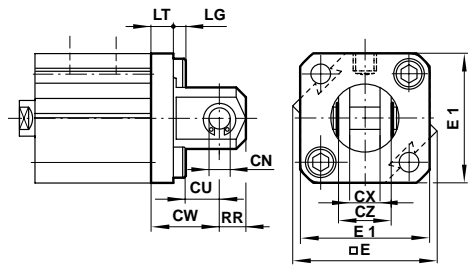
Note: Inch threads for 'C' port code.
Metric threads for 'M' port codes.
Metric for foot, flange, or clevis mount.

Dimensions in inches (mm)

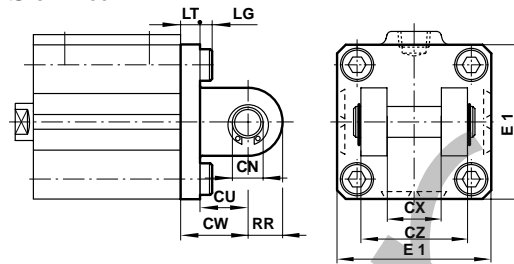
Actuators

Rear clevis mounting – D

Ø 12 ... 25 mm



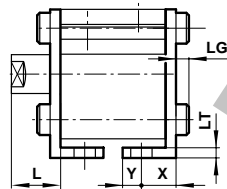
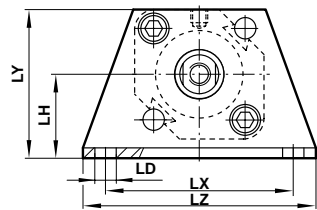
Ø 32 ... 50 mm



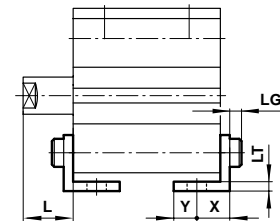
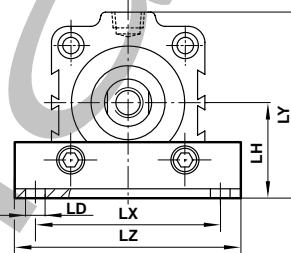
| Ø | CN | CW | CU | CX | CZ | LT | LG | RR | E1 | □ E | lb (kg) |
|-----|------------|-----------|-----------|-------------|-----------|-----------|------------|------------|--------------|-------------|-------------|
| 12 | 0.187 (5) | 0.55 (14) | 0.28 (7) | 0.21 (5.3) | 0.39 (10) | 0.2 (5) | 0.11 (2.8) | 0.24 (6.0) | 0.98 (25) | 1.09 (27.7) | 0.05 (0.02) |
| 16 | 0.187 (5) | 0.59 (15) | 0.39 (10) | 0.27 (6.8) | 0.47 (12) | 0.2 (5) | 0.11 (2.8) | 0.24 (6.0) | 1.14 (29) | 1.25 (31.7) | 0.05 (0.02) |
| 20 | 0.312 (8) | 0.71 (18) | 0.47 (12) | 0.33 (8.3) | 0.63 (16) | 0.2 (5) | 0.16 (4.0) | 0.35 (9.0) | 1.42 (36) | – (–) | 0.10 (0.05) |
| 25 | 0.375 (10) | 0.79 (20) | 0.55 (14) | 0.41 (10.3) | 0.79 (20) | 0.2 (5) | 0.16 (4.0) | 0.39 (10) | 1.57 (40) | – (–) | 0.15 (0.07) |
| 32 | 0.375 (10) | 0.79 (20) | 0.55 (14) | 0.72 (18.3) | 1.42 (36) | 0.24 (6) | 0.16 (4.0) | 0.39 (10) | 1.75 (44.5) | – (–) | 0.20 (0.09) |
| 40 | 0.375 (10) | 0.87 (22) | 0.55 (14) | 0.72 (18.3) | 1.42 (36) | 0.31 (8) | 0.16 (4.0) | 0.39 (10) | 2.05 (52) | – (–) | 0.29 (0.13) |
| 50 | 0.5 (14) | 1.1 (28) | 0.79 (20) | 0.88 (22.3) | 1.73 (44) | 0.31 (8) | 0.2 (5.0) | 0.55 (14) | 2.51 (63.7) | – (–) | 0.46 (0.22) |
| 63 | 0.5 (14) | 1.18 (30) | 0.79 (20) | 0.88 (22.3) | 1.73 (44) | 0.39 (10) | 0.24 (6.0) | 0.55 (14) | 3.02 (76.7) | – (–) | 0.75 (0.34) |
| 80 | 0.75 (18) | 1.5 (38) | 1.07 (27) | 1.11 (28.3) | 2.2 (56) | 0.43 (11) | 0.28 (7.0) | 0.71 (18) | 3.85 (97.8) | – (–) | 1.19 (0.54) |
| 100 | 0.875 (22) | 1.77 (45) | 1.22 (31) | 1.27 (32.3) | 2.52 (64) | 0.55 (14) | 0.28 (7.0) | 0.87 (22) | 4.54 (115.3) | – (–) | 1.98 (0.90) |

Foot mounting – C

Ø 12 ... 25 mm



Ø 32 ... 50 mm



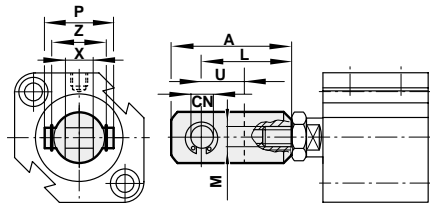
| Ø | LD | LH | LX | LY | LZ | L | LT | X | Y | LG | lb (kg) |
|-----|------------|-----------|------------|-------------|------------|-------------|------------|-------------|-------------|------------|-------------|
| 12 | 0.18 (4.5) | 0.67 (17) | 1.39 (34) | 1.16 (29.5) | 1.73 (44) | 0.53 (13.5) | 0.08 (2) | 0.31 (8) | 0.18 (4.5) | 0.11 (2.8) | 0.04 (0.02) |
| 16 | 0.18 (4.5) | 0.75 (19) | 1.50 (38) | 1.32 (33.5) | 1.89 (48) | 0.53 (13.5) | 0.08 (2) | 0.31 (8) | 0.20 (5) | 0.11 (2.8) | 0.04 (0.02) |
| 20 | 0.26 (6.5) | 0.94 (24) | 1.89 (48) | 1.65 (42) | 2.44 (62) | 0.57 (14.5) | 0.13 (3.2) | 0.36 (9.2) | 0.23 (5.8) | 0.16 (4) | 0.04 (0.02) |
| 25 | 0.26 (6.5) | 1.02 (26) | 2.05 (52) | 1.81 (46) | 2.60 (66) | 0.59 (15) | 0.13 (3.2) | 0.42 (10.7) | 0.23 (5.8) | 0.16 (4) | 0.09 (0.04) |
| 32 | 0.26 (6.5) | 1.18 (30) | 2.24 (57) | 2.24 (57) | 2.80 (71) | 0.67 (17) | 0.13 (3.2) | 0.44 (11.2) | 0.23 (5.8) | 0.16 (4) | 0.09 (0.04) |
| 40 | 0.26 (6.5) | 1.30 (33) | 2.52 (64) | 2.52 (64) | 3.07 (78) | 0.67 (17) | 0.13 (3.2) | 0.44 (11.2) | 0.28 (7) | 0.16 (4) | 0.22 (0.10) |
| 50 | 0.35 (9) | 1.54 (39) | 3.11 (79) | 3.07 (78) | 3.74 (95) | 0.71 (18) | 0.13 (3.2) | 0.58 (14.7) | 0.31 (8) | 0.20 (5) | 0.24 (0.11) |
| 63 | 0.43 (11) | 1.81 (46) | 3.74 (95) | 3.6 (91.5) | 4.45 (113) | 0.71 (18) | 0.13 (3.2) | 0.64 (16.2) | 0.35 (9) | 0.24 (6) | 0.29 (0.13) |
| 80 | 0.51 (13) | 2.32 (59) | 4.65 (118) | 4.49 (114) | 5.51 (140) | 0.79 (20) | 0.18 (4.5) | 0.77 (19.5) | 0.43 (11) | 0.28 (7) | 0.40 (0.18) |
| 100 | 0.51 (13) | 2.80 (71) | 5.39 (137) | 5.35 (136) | 6.38 (162) | 0.87 (22) | 0.24 (6) | 0.91 (23) | 0.49 (12.5) | 0.28 (7) | 1.06 (0.47) |

Dimensions in inches (mm)

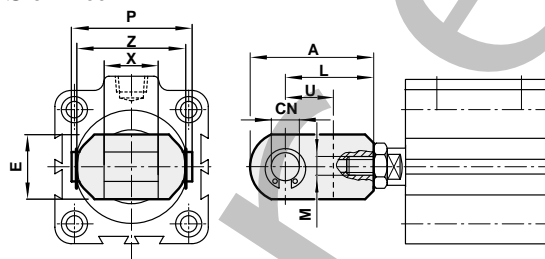
Accessories

Compact interchangeable cylinders

Piston rod clevis
Ø 12 ... 25 mm



Ø 32 ... 50 mm

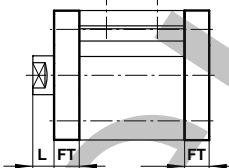
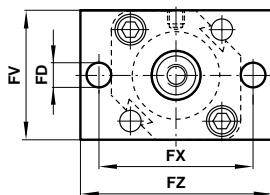


| Ø | Model | Metric | CN | M | L | U | X | Z | P | E | A | lb (kg) |
|------|-------------|-------------|------------|--------------------------|-----------|-------------|-------------|-------------|-------------|-----------|-------------|-------------|
| Inch | | | | | | | | | | | | |
| 12 | QC/99012/25 | QM/99012/25 | 0.187 (5) | #8-32 (M5 x 0.8 deep) | 0.63 (16) | 0.27 (7) | 0.21 (5.3) | 0.39 (10) | 0.55 (14) | 0.39 (10) | 0.85 (21.5) | 0.02 (0.01) |
| 16 | QC/99016/25 | QM/99016/25 | 0.187 (5) | #8-32 (M6 x 1.0 deep) | 0.83 (21) | 0.39 (10) | 0.26 (6.6) | 0.47 (12) | 0.63 (16) | 0.47 (12) | 1.10 (28) | 0.02 (0.01) |
| 20 | QC/99020/25 | QM/99020/25 | 0.312 (8) | #10-32 (M8 x 1.25 deep) | 0.98 (25) | 0.45 (11.5) | 0.33 (8.3) | 0.63 (16) | 0.83 (21) | 0.63 (16) | 1.34 (34) | 0.02 (0.01) |
| 25 | QC/99025/25 | QM/99025/25 | 0.375 (10) | 1/4-28 (M10 x 1.25 deep) | 1.18 (30) | 0.55 (14) | 0.41 (10.3) | 0.78 (20) | 0.98 (25) | 0.78 (20) | 1.61 (41) | 0.02 (0.01) |
| 32 | QC/99032/25 | QM/99032/25 | 0.375 (10) | 5/16-24 (M14 x 1.5 deep) | 1.18 (30) | 0.55 (14) | 0.72 (18.4) | 1.44 (36.6) | 1.61 (41) | 0.87 (22) | 1.65 (42) | 0.04 (0.02) |
| 40 | QC/99040/25 | QM/99032/25 | 0.375 (10) | 3/8-24 (M14 x 1.5 deep) | 1.18 (30) | 0.55 (14) | 0.72 (18.4) | 1.44 (36.6) | 1.61 (41) | 0.87 (22) | 1.65 (42) | 0.04 (0.02) |
| 50 | QC/99050/25 | QM/99050/25 | 0.500 (14) | 1/2-20 (M18 x 1.5 deep) | 1.57 (40) | 0.79 (20) | 0.88 (22.4) | 1.75 (44.5) | 1.97 (50) | 1.10 (28) | 2.20 (56) | 0.09 (0.04) |
| 63 | QC/99050/25 | QM/99050/25 | 0.500 (14) | 1/2-20 (M18 x 1.5 deep) | 1.57 (40) | 0.79 (20) | 0.88 (22.4) | 1.75 (44.5) | 1.97 (50) | 1.10 (28) | 2.20 (56) | 0.20 (0.09) |
| 80 | QC/99080/25 | QM/99080/25 | 0.750 (18) | 5/8-18 (M22 x 1.5 deep) | 1.97 (50) | 1.06 (27) | 1.12 (28.4) | 2.19 (55.6) | 2.46 (62.5) | 1.50 (38) | 2.80 (71) | 0.48 (0.22) |
| 100 | QC/99100/25 | QM/99100/25 | 0.875 (22) | 3/4-16 (M26 x 1.5 deep) | 2.17 (55) | 1.22 (31) | 1.28 (32.4) | 2.50 (63.5) | 2.78 (70.6) | 1.73 (44) | 3.11 (79) | 0.48 (0.22) |

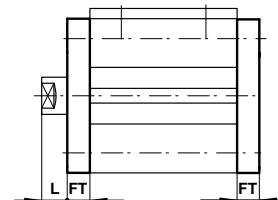
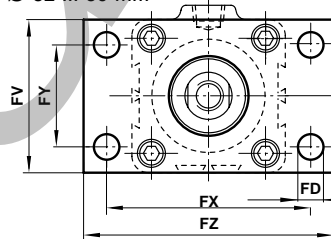
Ordering information To order a basic 25 mm bore cylinder, spring return, with a 10 mm stroke, BSP parallel ports quote: DM/95025/10 plus piston rod clevis mounting: QM/99025/25

Flange rod end mounting – G Flange cap end mounting – B
ISO Flange rod end mounting – IG ISO Flange cap end mounting – IB

Ø 12 ... 25 mm



Ø 32 ... 50 mm



ISO

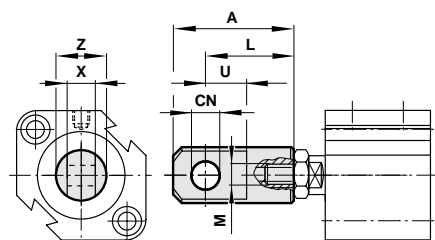
Non-ISO

| Ø | FT | L | FD | FY | FX | FV | FZ | FD | FY | FX | FV | F | Z | lb (kg) |
|-----|------------|------------|------------|-----------|------------|------------|------------|------------|-----------|------------|------------|------------|-------------|---------|
| 12 | 0.22 (5.5) | 0.31 (8.0) | 0.22 (5.5) | - (-) | 1.57 (40) | 0.98 (25) | 1.97 (50) | 0.18 (4.5) | - (-) | 1.77 (45) | 0.98 (25) | 2.17 (55) | 0.04 (0.02) | |
| 16 | 0.22 (5.5) | 0.31 (8.0) | 0.22 (5.5) | - (-) | 1.57 (40) | 1.18 (30) | 1.97 (50) | 0.18 (4.5) | - (-) | 1.77 (45) | 1.18 (30) | 2.17 (55) | 0.04 (0.02) | |
| 20 | 0.31 (8) | 0.26 (6.5) | 0.26 (6.6) | - (-) | 1.97 (50) | 1.54 (39) | 2.44 (62) | 0.26 (6.5) | - (-) | 1.89 (48) | 1.54 (39) | 2.36 (60) | 0.04 (0.02) | |
| 25 | 0.31 (8) | 0.28 (7.0) | 0.26 (6.6) | - (-) | 1.97 (50) | 1.65 (42) | 2.44 (62) | 0.26 (6.5) | - (-) | 2.05 (52) | 1.65 (42) | 2.52 (64) | 0.09 (0.04) | |
| 32 | 0.31 (8) | 0.35 (9.0) | 0.28 (7) | 1.26 (32) | 2.52 (64) | 1.89 (48) | 2.99 (76) | 0.22 (5.5) | 1.34 (34) | 2.2 (56) | 1.89 (48) | 2.56 (65) | 0.13 (0.06) | |
| 40 | 0.31 (8) | 0.35 (9.0) | 0.35 (9) | 1.42 (36) | 2.83 (72) | 2.13 (54) | 3.47 (88) | 0.22 (5.5) | 1.57 (40) | 2.44 (62) | 2.13 (54) | 2.83 (72) | 0.33 (0.15) | |
| 50 | 0.35 (9) | 0.35 (9.0) | 0.35 (9) | 1.77 (45) | 3.54 (90) | 2.64 (67) | 4.17 (106) | 0.26 (6.5) | 1.97 (50) | 2.99 (76) | 2.64 (67) | 3.5 (89) | 0.37 (0.16) | |
| 63 | 0.35 (9) | 0.35 (9) | 0.35 (9) | 1.97 (50) | 3.94 (100) | 3.15 (80) | 4.57 (116) | 0.35 (9) | 2.36 (60) | 3.62 (92) | 3.15 (80) | 4.25 (108) | 0.73 (0.32) | |
| 80 | 0.43 (11) | 0.35 (9) | 0.47 (12) | 2.48 (63) | 4.96 (126) | 3.9 (99) | 5.91 (150) | 0.43 (11) | 3.03 (77) | 4.57 (116) | 3.9 (99) | 5.28 (134) | 0.90 (0.40) | |
| 100 | 0.43 (11) | 0.43 (11) | 0.55 (14) | 2.95 (75) | 5.91 (150) | 4.61 (117) | 7.01 (178) | 0.43 (11) | 3.7 (94) | 5.35 (136) | 4.61 (117) | 6.06 (154) | 1.58 (0.70) | |

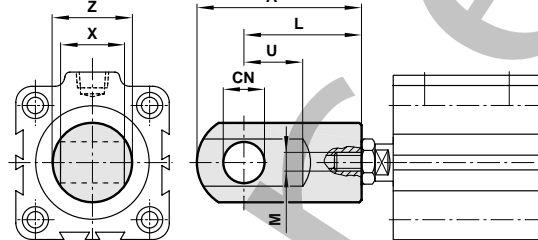
Dimensions in inches (mm)

Actuators

Piston rod eye
Ø 12 ... 25 mm



Ø 32 ... 50 mm



| Ø | Model Inch | Model Metric | CN | M | L | U | X | Z | A | lb (kg) |
|-----|---------------|-----------------|------------|--------------------------|-----------|-------------|-------------|-------------|-----------|-------------|
| 12 | QC/99012/32 | QM/99012/32 | 0.187 (5) | #8-32 (M5 x 0.8 deep) | 0.63 (16) | 0.27 (7) | 0.18 (4.7) | 0.38 (9.7) | 0.85 (21) | 0.05 (0.02) |
| 16 | QC/99016/32 | QM/99016/32 | 0.187 (5) | #8-32 (M6 x 1.0 deep) | 0.98 (25) | 0.55 (14) | 0.24 (6.2) | 0.44 (11.2) | 1.26 (32) | 0.05 (0.02) |
| 20 | QC/99020/32 | QM/99020/32 | 0.312 (8) | #10-32 (M8 x 1.25 deep) | 0.98 (25) | 0.45 (11.5) | 0.3 (7.7) | 0.63 (16) | 1.34 (34) | 0.10 (0.05) |
| 25 | QC/99025/32 | QM/99025/32 | 0.375 (10) | 1/4-28 (M10 x 1.25 deep) | 1.18 (30) | 0.55 (14) | 0.38 (9.7) | 0.75 (19) | 1.61 (41) | 0.15 (0.07) |
| 32 | QC/99032/32 | QM/99032/32 | 0.375 (10) | 5/16-24 (M14 x 1.5 deep) | 1.18 (30) | 0.55 (14) | 0.69 (17.5) | 0.87 (22) | 1.65 (42) | 0.20 (0.09) |
| 40 | QC/99040/32 | QM/99032/32 | 0.375 (10) | 3/8-24 (M14 x 1.5 deep) | 1.18 (30) | 0.55 (14) | 0.69 (17.5) | 0.87 (22) | 1.65 (42) | 0.29 (0.13) |
| 50 | QC/99050/32 | QM/99050/32 | 0.500 (14) | 1/2-20 (M18 x 1.5 deep) | 1.57 (40) | 0.79 (20) | 0.85 (21.5) | 1.06 (27) | 2.2 (56) | 0.73 (0.33) |
| 63 | QC/99050/32 | QM/99050/32 | 0.500 (14) | 1/2-20 (M18 x 1.5 deep) | 1.57 (40) | 0.79 (20) | 0.85 (21.5) | 1.06 (27) | 2.2 (56) | 0.73 (0.33) |
| 80 | QC/99080/32 | QM/99080/32 | 0.750 (18) | 5/8-18 (M22 x 1.5 deep) | 1.97 (50) | 1.06 (27) | 1.08 (27.5) | 1.50 (38) | 2.8 (71) | 1.52 (0.67) |
| 100 | QC/99100/32 | QM/99100/32 | 0.875 (22) | 3/4-16 (M26 x 1.5 deep) | 2.17 (55) | 1.22 (31) | 1.24 (31.5) | 1.75 (44.5) | 3.11 (79) | 1.52 (0.67) |

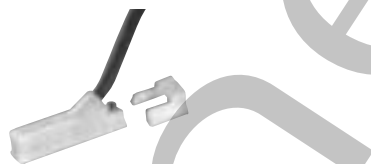
Dimensions in inches (mm)

Ordering information To order a basic 25 mm bore cylinder, spring return, with a 10 mm stroke, BSP parallel ports, quote: DM/95025/10 plus piston rod eye mounting: QM/99025/32

Spares

| Cylinder | Spares kit |
|----------|-------------|
| D*/99012 | QM/99012/00 |
| D*/99016 | QM/99016/00 |
| D*/99020 | QM/99020/00 |
| D*/99025 | QM/99025/00 |
| D*/99032 | QM/99032/00 |
| D*/99040 | QM/99040/00 |
| D*/99050 | QM/99050/00 |
| D*/99063 | QM/99063/00 |
| D*/99080 | QM/99080/00 |
| D*/99100 | QM/99100/00 |
| D*/99125 | QM/99125/00 |
| D*/99160 | QM/99160/00 |

Switches



| Model | | |
|-------------|------------------------------------|--------------------------------|
| Reed | QM/348/RSU/2.75 QM/348/LSU/2.75 | QM/348/RSU/CP QM/348/LSU/CP |
| Solid state | QM/348/EAP/2.75 QM/348/EAN/2.75 | QM/348/EAP/CP QM/348/EAN/CP |

Female cordsets



| Model | Length |
|------------|--------|
| M/P73326/1 | 1 m |
| M/P73326/2 | 2 m |
| M/P73326/5 | 5 m |

Note: Quick disconnect styles are supplied with 6 inch pigtail with male connector. Order female cordsets separately.

| Model | | Voltage | Current | Temperature | LED | Features | Cable/plug length | Cable type | | |
|-----------------|-----------------|-----------|-----------|-------------|---------------|-----------------|-------------------|------------|----------------|----------|
| Reed | Solid state | V a.c. | V d.c. | max. | °F° | C | | | | |
| QM/348/RSU/2.75 | | 0 ... 120 | 0 ... 120 | 500 mA | -4° ... +176° | (-20° ... +80°) | — | — | 9 ft. (2.75 m) | 26-3 PVC |
| QM/348/LSU/2.75 | | 5 ... 120 | 5 ... 120 | 30 mA | -4° ... +176° | (-20° ... +80°) | ● | — | 9 ft. (2.75 m) | 26-3 PVC |
| | QM/348/EAP/2.75 | — | 6 ... 24 | 200 mA | -4° ... +176° | (-20° ... +80°) | ● | PNP | 9 ft. (2.75 m) | 26-3 PVC |
| | QM/348/EAN/2.75 | — | 6 ... 24 | 200 mA | -4° ... +176° | (-20° ... +80°) | ● | NPN | 9 ft. (2.75 m) | 26-3 PVC |

Full information on switches (technical data, cable materials, dimensions etc.) please refer to relevant catalogue pages