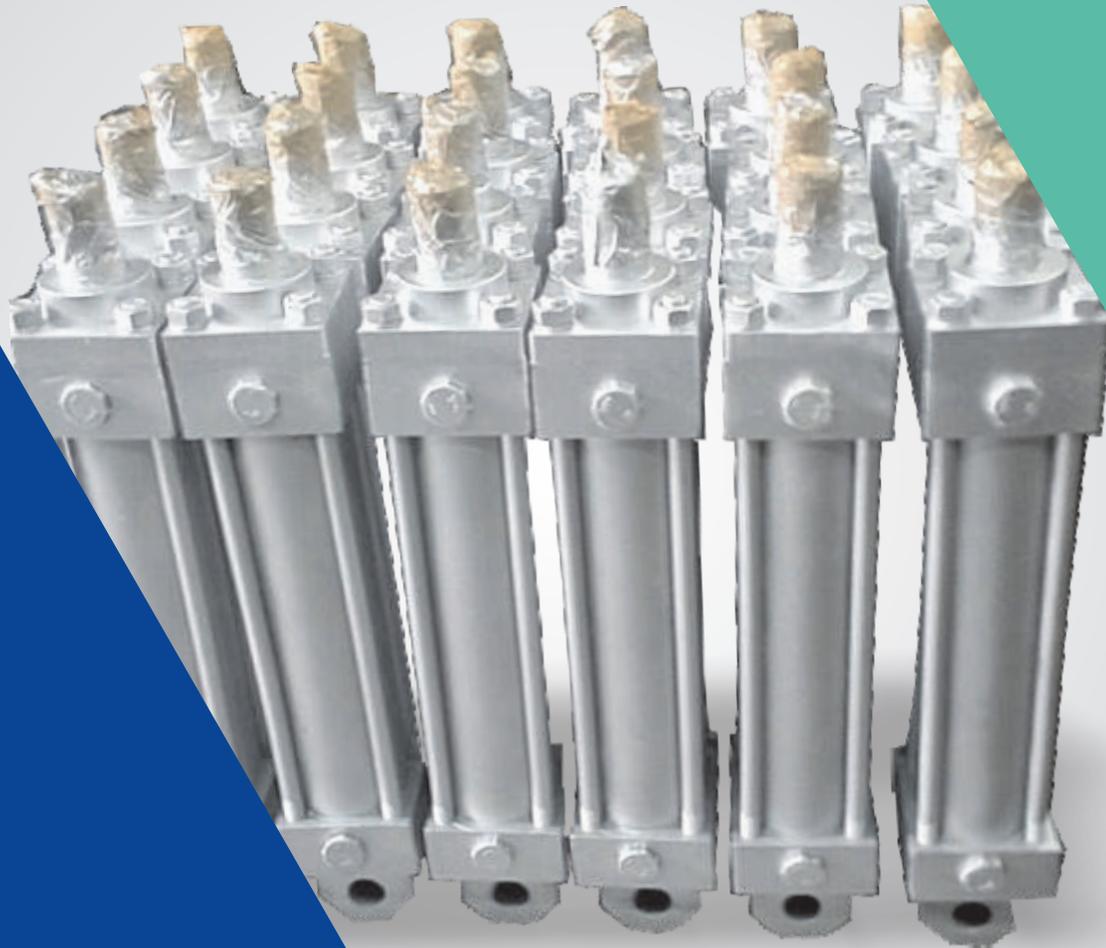


FLUID POWER & CONTROL CORPORATION

Manufacturers and Exporters of
Hydraulic and Pneumatic Cylinders



**ISO 6020 / 2 & 3
STANDARD SERIES**

VIDYUN[®]
SINCE 1978

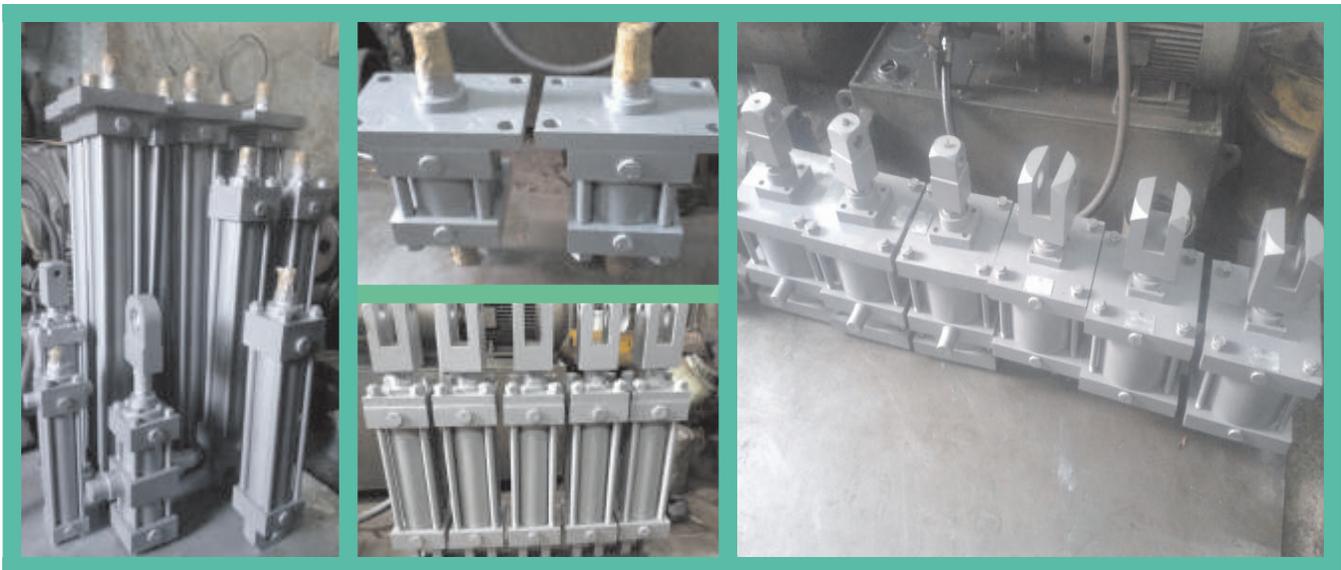
WELCOME TO FLUID POWER & CONTROL CORPORATION

Established in 1978, Fluid Power is one of a leading name in producing Hydraulics & Pneumatic cylinder. Since its inception fluid power have catered to almost all walk of industries. In all leading steel plants of India, CCM producers, Fluid Power proprietary make cylinders **VIDYUN** are definitely installed.

Our reputation as a designer and manufacturer of Fluid power products of utmost reliable quality is an established fact for almost 40 years now. As on today, we are an E.O.U. and increasing our share in global market progressively. Our cylinders are recommended by an O.E.M's of steel plant equipment manufacturers and their customers for the replacement. We have specialized ourselves into manufacturing of ISO 6020/1, ISO 6020/2 & ISO 6022 series of hydraulic cylinders.

We offer Hydraulic Culinders with 18 types of mountings starting from Bore dia 40 mm to 320 mm and stroke length upto 5500 mm

With the backup of up to date & state-of-the-art production facilities and a clear-cut focus on design engineering and product development, we effectively meets the demand for a very wide spectrum of applications, such as



CONTINUOUS CASTING MACHINES | CRM | HRM

HOT BILLET SHEAR MACHINE | ROLLING MILLS

PLASTIC MACHINERY | AMUSEMENT PARKS | CONSTRUCTION MACHINERY

MINING EQUIPMENT | MARINE EQUIPMENT | TYRE & RUBBER INDUSTRIES

MACHINE TOOLS | TUBE MILLS | HADDLE SLIDEGATE CYLINDER etc.

FLUID POWER & CONTROL CORPORATION

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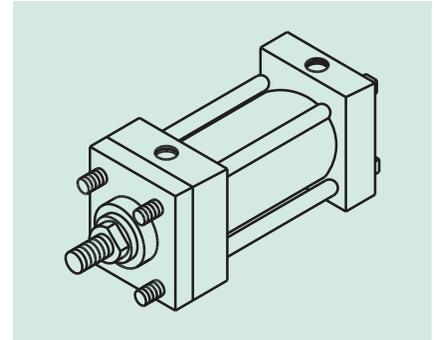
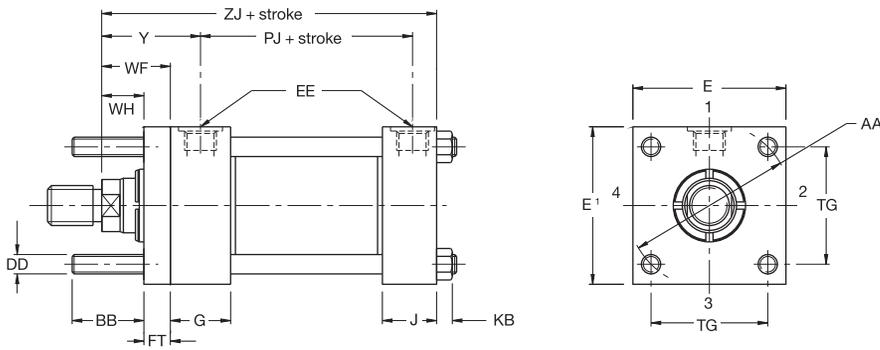
Email : fluidpower999@rediffmail.com | fluidpowercontrol@hotmail.com

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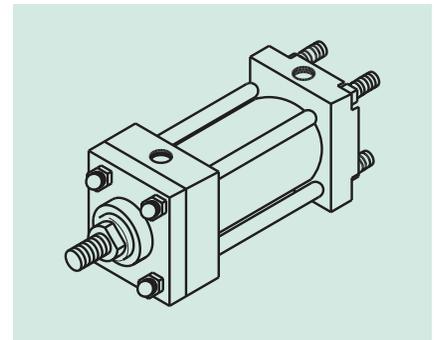
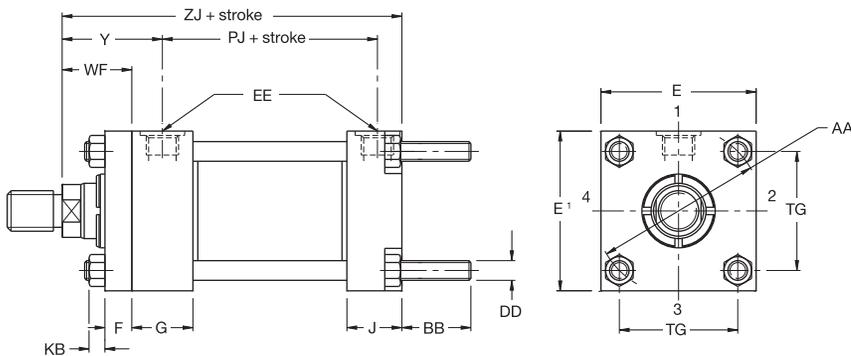
EXTENDED TIE ROD MOUNTINGS

TIE ROD DESIGN CYLINDERS - Rated for working of 160 Bar & Test Pressure of 210 Bar

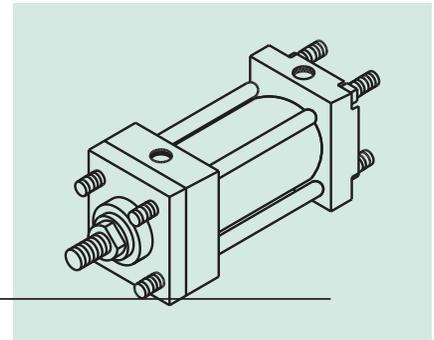
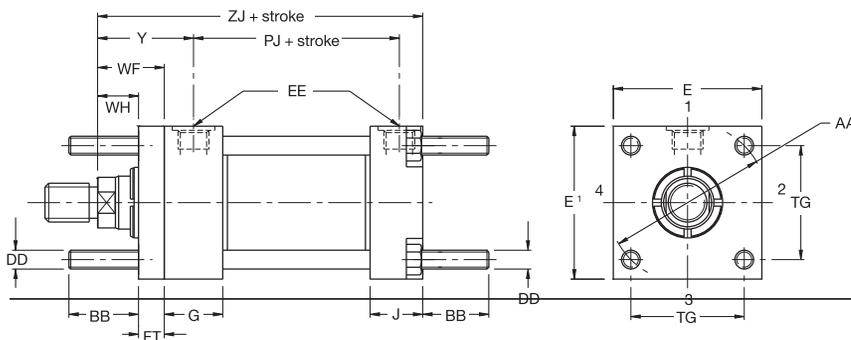
Tie Rod Extended Head End - ISO Style MX3



Tie Rods Extended Cap End - ISO Style MX2



Tie Rods Extended Both End - ISO Style MX1



Dimensions for - ISO Style MX1, MX2 & MX3

All Dimensions in mm

| Bore Ø | AA | BB | DD | E | EE (BSPP) inches | F max | FT | G | J | KB | TG | WF | WH | Y | + Stroke | |
|--------|-----|-----|----------|-----|--------------------------------|-------|----|----|----|-----|-------|----|----|----|----------|-----|
| | | | | | | | | | | | | | | | PJ | ZJ |
| 40 | 59 | 35 | M8x1 | 64 | G ³ / ₈ | 10 | 10 | 45 | 38 | 6.5 | 41.7 | 35 | 25 | 62 | 73 | 153 |
| 50 | 74 | 46 | M12x1,25 | 76 | G ¹ / ₂ | 16 | 16 | 45 | 38 | 10 | 52.3 | 41 | 25 | 67 | 74 | 159 |
| 63 | 91 | 46 | M12x1,25 | 90 | G ¹ / ₂ | 16 | 16 | 45 | 38 | 10 | 64.3 | 48 | 32 | 71 | 80 | 168 |
| 80 | 117 | 59 | M16x1,5 | 115 | G ³ / ₄ | 20 | 20 | 50 | 45 | 13 | 82.7 | 51 | 31 | 77 | 93 | 190 |
| 100 | 137 | 59 | M16x1,5 | 130 | G ³ / ₄ | 22 | 22 | 50 | 45 | 13 | 96.9 | 57 | 35 | 82 | 101 | 203 |
| 125 | 178 | 81 | M22x1,5 | 165 | G1 | 22 | 22 | 58 | 58 | 18 | 125.9 | 57 | 35 | 86 | 117 | 232 |
| 160 | 219 | 92 | M27x2 | 205 | G1 | 25 | 25 | 58 | 58 | 22 | 154.9 | 57 | 32 | 86 | 130 | 245 |
| 200 | 269 | 115 | M30x2 | 245 | G1 ¹ / ₄ | 25 | 25 | 76 | 76 | 24 | 190.2 | 57 | 32 | 98 | 165 | 299 |

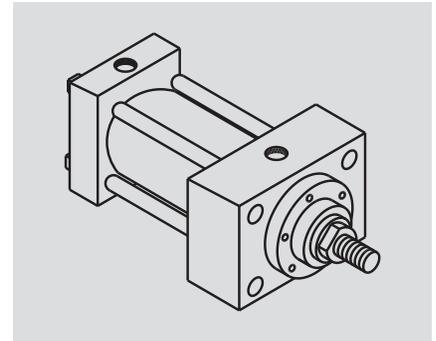
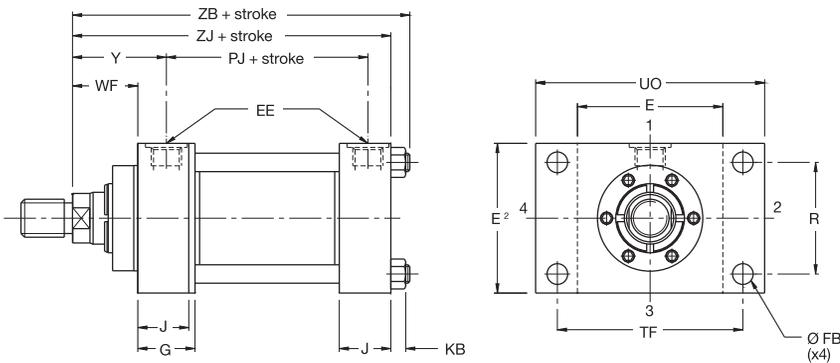
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 Email : fluidpower999@rediffmail.com | fluidpowercontrol@hotmail.com
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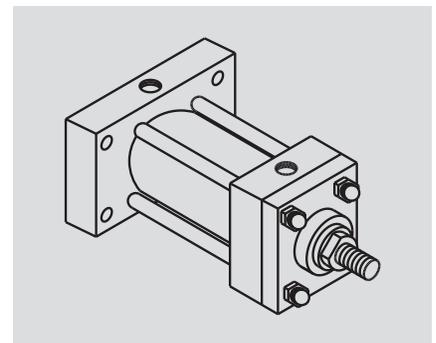
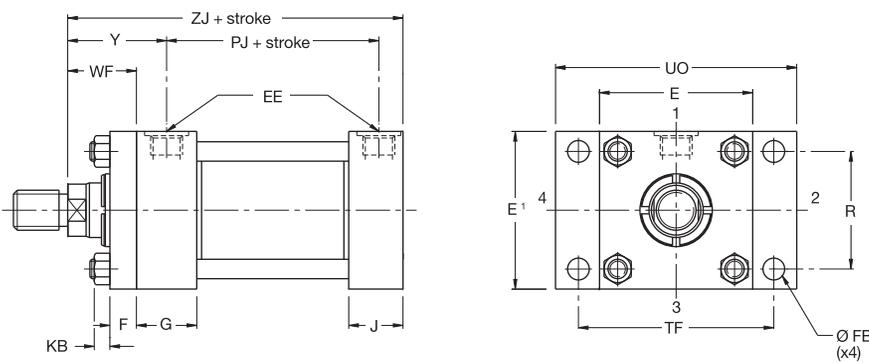
FLANGE & SIDE LUG MOUNTINGS

TIE ROD DESIGN CYLINDERS - Rated for working of 160 Bar & Test Pressure of 210 Bar

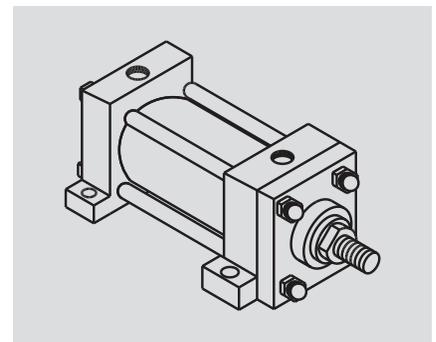
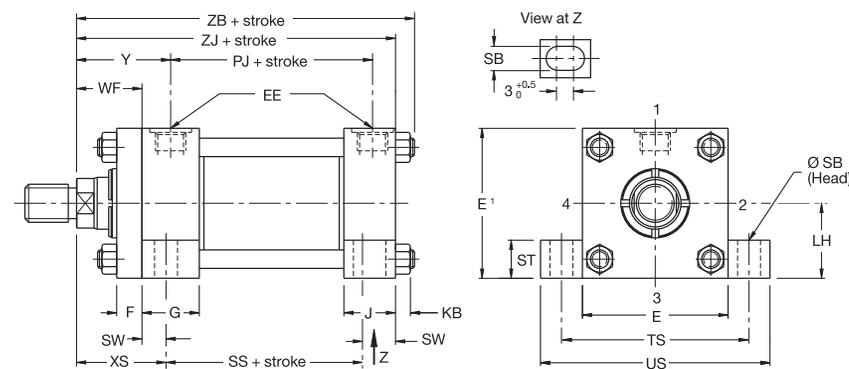
Head Rectangular Flange - ISO Style ME5



Cap Rectangular Flange - ISO Style ME6



Side Lugs - ISO Style MS2



Dimensions for - ISO Style ME5, ME6 & MS2

All Dimensions in mm

| Bore Ø | E | EE (BSPP) inches | F max | FB | G | J | KB | LH h10 | R | SB | ST | SW | TF | TS | UO | US | WF | XS | Y | + Stroke | | | |
|--------|-----|--------------------------------|-------|----|----|----|-----|--------|-----|----|------|----|-----|-----|-----|-----|----|----|----|----------|-----|--------|-----|
| | | | | | | | | | | | | | | | | | | | | PJ | SS | ZB max | ZJ |
| 40 | 64 | G ³ / ₈ | 10 | 11 | 45 | 38 | 6.5 | 31 | 41 | 11 | 12.5 | 10 | 87 | 83 | 110 | 103 | 35 | 45 | 62 | 73 | 97 | 166 | 153 |
| 50 | 76 | G ¹ / ₂ | 16 | 14 | 45 | 38 | 10 | 37 | 52 | 14 | 19 | 13 | 105 | 102 | 130 | 127 | 41 | 54 | 67 | 74 | 91 | 176 | 159 |
| 63 | 90 | G ¹ / ₂ | 16 | 14 | 45 | 38 | 10 | 44 | 65 | 18 | 26 | 17 | 117 | 124 | 145 | 161 | 48 | 65 | 71 | 80 | 85 | 185 | 168 |
| 80 | 115 | G ³ / ₄ | 20 | 18 | 50 | 45 | 13 | 57 | 83 | 18 | 26 | 17 | 149 | 149 | 180 | 186 | 51 | 68 | 77 | 93 | 104 | 212 | 190 |
| 100 | 130 | G ³ / ₄ | 22 | 18 | 50 | 45 | 13 | 63 | 97 | 26 | 32 | 22 | 162 | 172 | 200 | 216 | 57 | 79 | 82 | 101 | 101 | 225 | 203 |
| 125 | 165 | G1 | 22 | 22 | 58 | 58 | 18 | 82 | 126 | 26 | 32 | 22 | 208 | 210 | 250 | 254 | 57 | 79 | 86 | 117 | 130 | 260 | 232 |
| 160 | 205 | G1 | 25 | 26 | 58 | 58 | 22 | 101 | 155 | 33 | 38 | 29 | 253 | 260 | 300 | 318 | 57 | 86 | 86 | 130 | 129 | 279 | 245 |
| 200 | 245 | G1 ¹ / ₄ | 25 | 33 | 76 | 76 | 24 | 122 | 190 | 39 | 44 | 35 | 300 | 311 | 360 | 381 | 57 | 92 | 98 | 165 | 171 | 336 | 299 |

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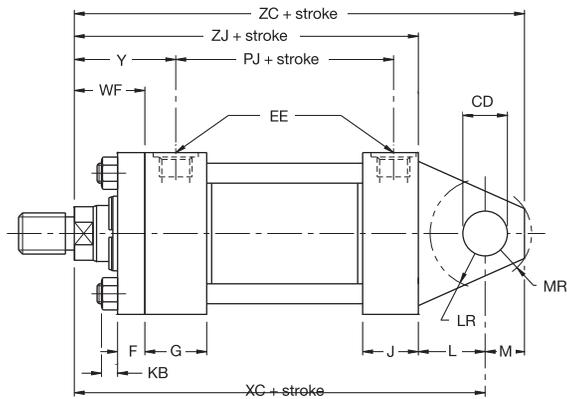
Email : fluidpower999@rediffmail.com | fluidpowercontrol@hotmail.com

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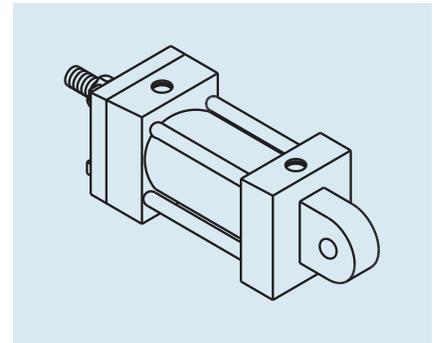
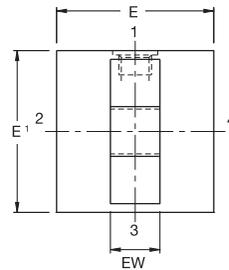
PIVOT MOUNTINGS

TIE ROD DESIGN CYLINDERS - Rated for working of 160 Bar & Test Pressure of 210 Bar

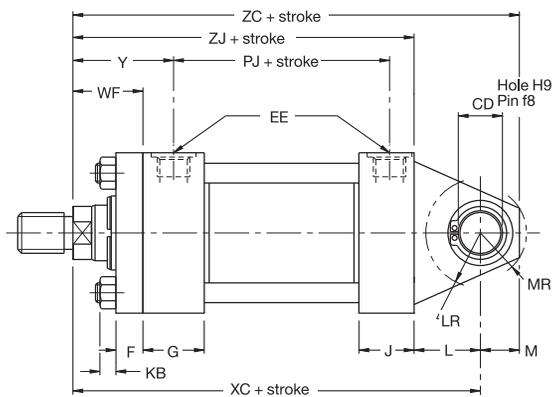
Cap Fixed Eye - ISO Style MP3



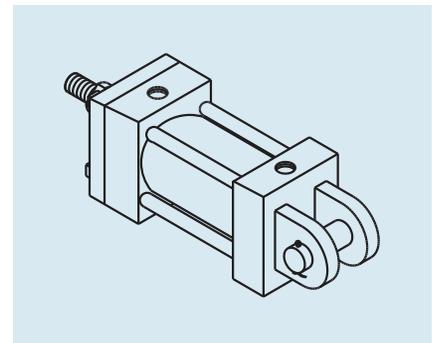
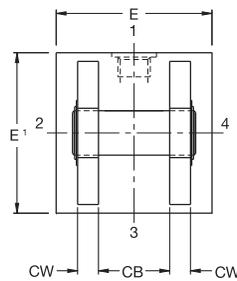
Pivot pin not supplied



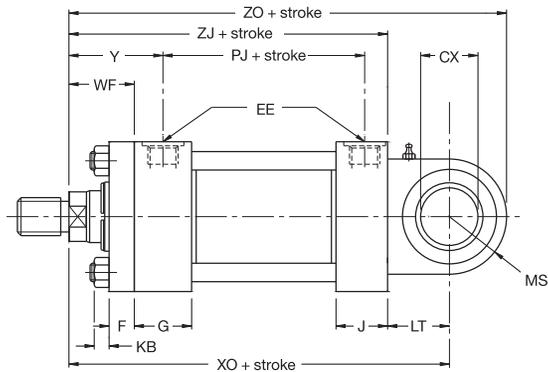
Cap Fixed Clevis ISO Style MP1



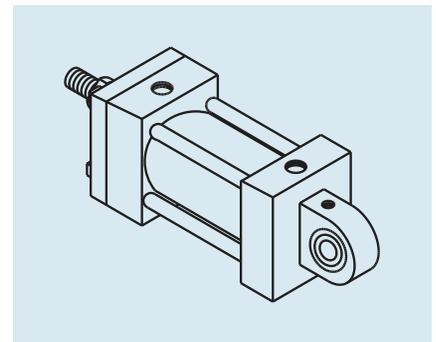
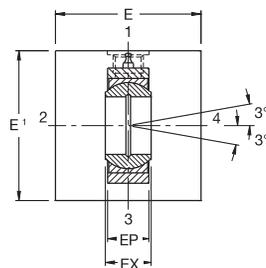
Supplied complete with pivot pin



Cap Fixed Eye with spherical bearing - ISO Style MP5



Pivot pin not supplied



Dimensions for - ISO Style MP3, MP1 & MP5

All Dimensions in mm

| Bore Ø | CB A16 | CD H9 | CW | CX | E | EE (BSPP) inches | EP | EW h14 | EX | F max | G | J | KB | L | LR | LT | M | MR | MS max | WF | Y | + Stroke | | | | | |
|--------|--------|-------|----|-----------------------|-----|--------------------------------|----|--------|----|-------|----|----|-----|----|----|-----|----|----|--------|----|----|----------|-----|-----|-----|-----|-----|
| | | | | | | | | | | | | | | | | | | | | | | PJ | XC | XO | ZC | ZJ | ZO |
| 40 | 20 | 14 | 10 | 20 ^{-0.012} | 64 | G ³ / ₈ | 13 | 20 | 16 | 10 | 45 | 38 | 6.5 | 19 | 17 | 25 | 14 | 16 | 29 | 35 | 62 | 73 | 172 | 178 | 186 | 153 | 207 |
| 50 | 30 | 20 | 15 | 25 ^{-0.012} | 76 | G ¹ / ₂ | 17 | 30 | 20 | 16 | 45 | 38 | 10 | 32 | 29 | 31 | 20 | 25 | 33 | 41 | 67 | 74 | 191 | 190 | 211 | 159 | 223 |
| 63 | 30 | 20 | 15 | 30 ^{-0.012} | 90 | G ¹ / ₂ | 19 | 30 | 22 | 16 | 45 | 38 | 10 | 32 | 29 | 38 | 20 | 25 | 40 | 48 | 71 | 80 | 200 | 206 | 220 | 168 | 246 |
| 80 | 40 | 28 | 20 | 40 ^{-0.012} | 115 | G ³ / ₄ | 23 | 40 | 28 | 20 | 50 | 45 | 13 | 39 | 34 | 48 | 28 | 34 | 50 | 51 | 77 | 93 | 229 | 238 | 257 | 190 | 288 |
| 100 | 50 | 36 | 25 | 50 ^{-0.012} | 130 | G ³ / ₄ | 30 | 50 | 35 | 22 | 50 | 45 | 13 | 54 | 50 | 58 | 36 | 44 | 62 | 57 | 82 | 101 | 257 | 261 | 293 | 203 | 323 |
| 125 | 60 | 45 | 30 | 60 ^{-0.015} | 165 | G1 | 38 | 60 | 44 | 22 | 58 | 58 | 18 | 57 | 53 | 72 | 45 | 53 | 80 | 57 | 86 | 117 | 289 | 304 | 334 | 232 | 384 |
| 160 | 70 | 56 | 35 | 80 ^{-0.015} | 205 | G1 | 47 | 70 | 55 | 25 | 58 | 58 | 22 | 63 | 59 | 92 | 59 | 59 | 100 | 57 | 86 | 130 | 308 | 337 | 367 | 245 | 437 |
| 200 | 80 | 70 | 40 | 100 ^{-0.020} | 245 | G1 ¹ / ₄ | 57 | 80 | 70 | 25 | 76 | 76 | 24 | 82 | 78 | 116 | 70 | 76 | 120 | 57 | 98 | 165 | 381 | 415 | 451 | 299 | 535 |

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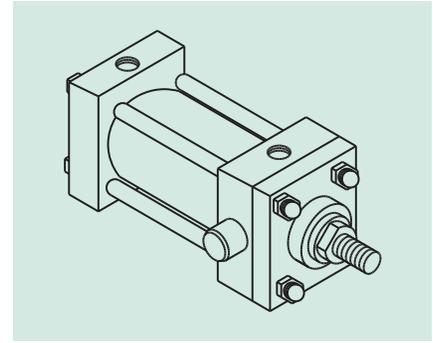
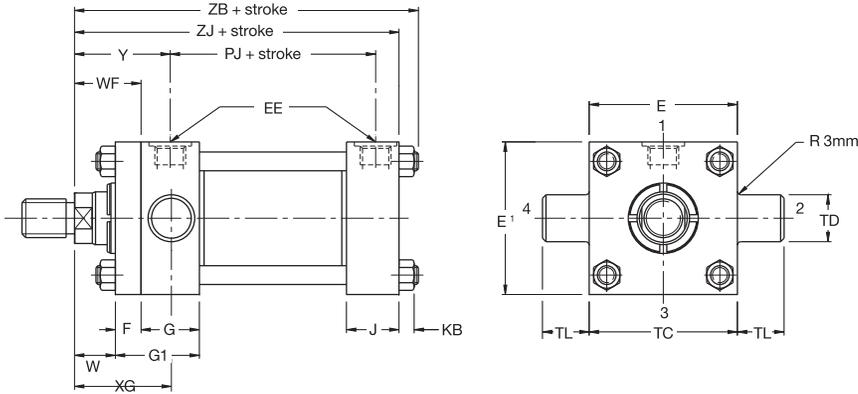
Email : fluidpower999@rediffmail.com | fluidpowercontrol@hotmail.com

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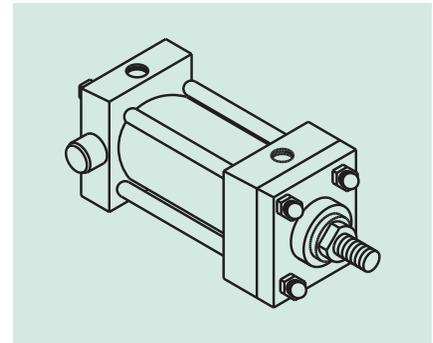
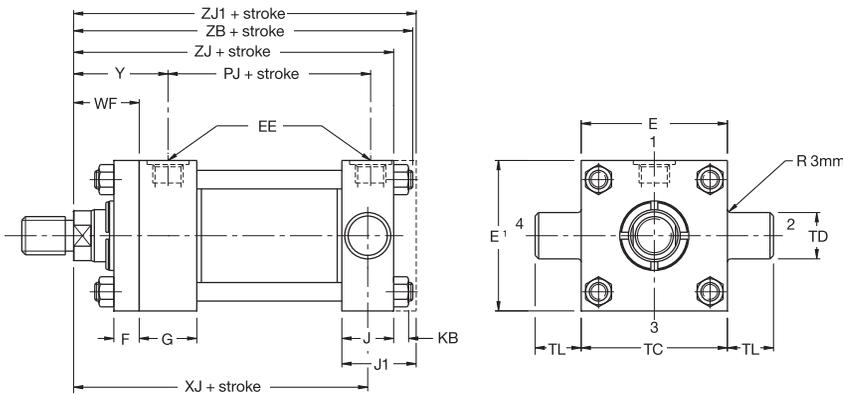
TRUNNION MOUNTINGS

TIE ROD DESIGN CYLINDERS - Rated for working of 160 Bar & Test Pressure of 210 Bar

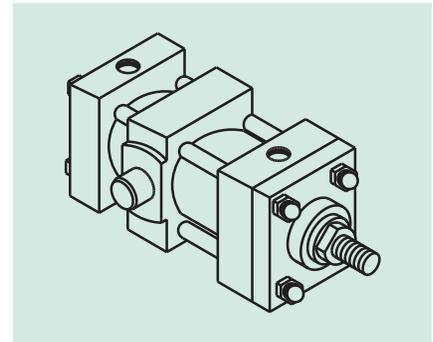
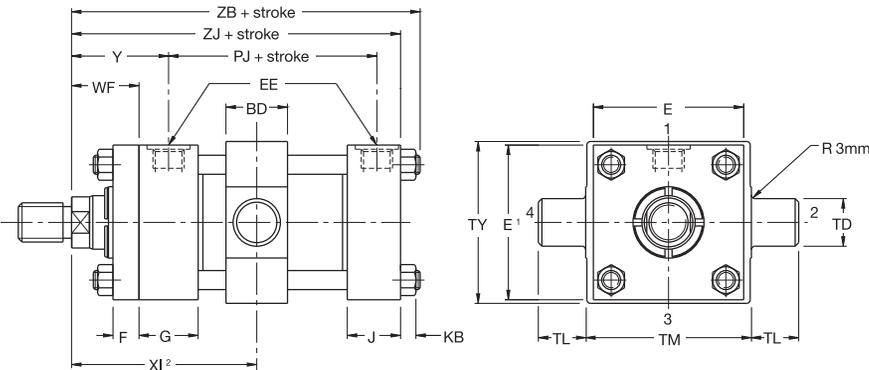
Head Trunnion - ISO Style MT1



Cap Trunnion - ISO Style MT2



Intermediate Fixed Trunnion - ISO Style MT4



Dimensions for - ISO Style MT1, MT2 & MT4

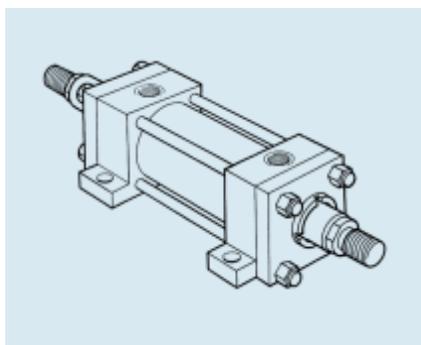
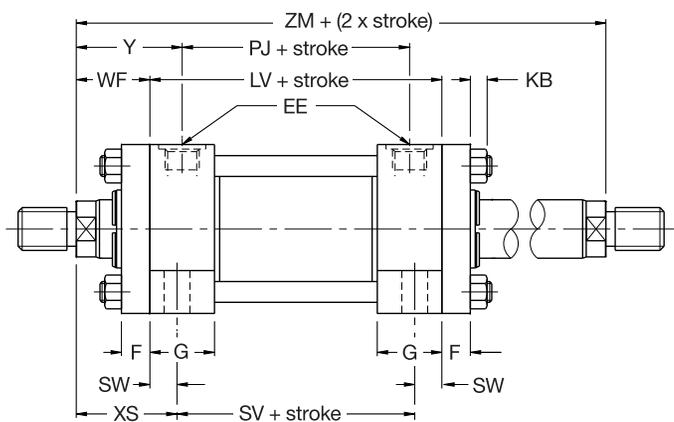
All Dimensions in mm

| Bore Ø | BD | E | EE (BSPP) inches | F max | G | G1 | J | J1 | KB | TC | TD f8 | TL | TM | TY | W | WF | XG | Y | + Stroke | | | | Style DD min stroke | Min XI dim'n ² | |
|--------|-----|-----|--------------------------------|-------|----|-----|----|-----|-----|-----|-------|----|-----|-----|----|----|----|----|----------|-----|-----|-----|---------------------|---------------------------|--------|
| | | | | | | | | | | | | | | | | | | | PJ | XJ | ZJ | ZJ1 | | | ZB max |
| 40 | 30 | 64 | G ³ / ₈ | 10 | 45 | - | 38 | - | 6.5 | 63 | 20 | 16 | 76 | 76 | - | 35 | 57 | 62 | 73 | 134 | 153 | - | 166 | 15 | 97 |
| 50 | 40 | 76 | G ¹ / ₂ | 16 | 45 | - | 38 | - | 10 | 76 | 25 | 20 | 89 | 89 | - | 41 | 64 | 67 | 74 | 140 | 159 | - | 176 | 15 | 107 |
| 63 | 40 | 90 | G ¹ / ₂ | 16 | 45 | - | 38 | - | 10 | 89 | 32 | 25 | 100 | 95 | - | 48 | 70 | 71 | 80 | 149 | 168 | - | 185 | 15 | 114 |
| 80 | 50 | 115 | G ³ / ₄ | 20 | 50 | - | 45 | 50 | 13 | 114 | 40 | 32 | 127 | 127 | - | 51 | 76 | 77 | 93 | 168 | 190 | 194 | 212 | 20 | 127 |
| 100 | 60 | 130 | G ³ / ₄ | 22 | 50 | 72 | 45 | 58 | 13 | 127 | 50 | 40 | 140 | 140 | 35 | 57 | 71 | 82 | 101 | 187 | 203 | 216 | 225 | 20 | 138 |
| 125 | 73 | 165 | G1 | 22 | 58 | 80 | 58 | 71 | 18 | 165 | 63 | 50 | 178 | 178 | 35 | 57 | 75 | 86 | 117 | 209 | 232 | 245 | 260 | 25 | 153 |
| 160 | 90 | 205 | G1 | 25 | 58 | 88 | 58 | 88 | 22 | 203 | 80 | 63 | 215 | 216 | 32 | 57 | 75 | 86 | 130 | 230 | 245 | 275 | 279 | 30 | 161 |
| 200 | 110 | 245 | G1 ¹ / ₄ | 25 | 76 | 108 | 76 | 108 | 24 | 241 | 100 | 80 | 279 | 280 | 32 | 57 | 85 | 98 | 165 | 276 | 299 | 330 | 336 | 30 | 190 |

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DOUBLE ROD CYLINDERS



| Bore Ø | Rod No. | MM Rod Ø | Add Stroke | | | Add 2 x Stroke |
|--------|---------|----------|------------|-----|-----|----------------|
| | | | LV | PJ | SV | ZM |
| 40 | 1 | 18 | 125 | 73 | 105 | 195 |
| | 2 | 28 | | | | |
| 50 | 1 | 22 | 125 | 74 | 99 | 207 |
| | 2 | 36 | | | | |
| | 3 | 28 | | | | |
| 63 | 1 | 28 | 127 | 80 | 93 | 223 |
| | 2 | 45 | | | | |
| | 3 | 36 | | | | |
| 80 | 1 | 36 | 144 | 93 | 110 | 246 |
| | 2 | 56 | | | | |
| | 3 | 45 | | | | |
| 100 | 1 | 45 | 151 | 101 | 107 | 265 |
| | 2 | 70 | | | | |
| | 3 | 56 | | | | |
| 125 | 1 | 56 | 175 | 117 | 131 | 289 |
| | 2 | 90 | | | | |
| | 3 | 70 | | | | |
| 160 | 1 | 70 | 188 | 130 | 130 | 302 |
| | 2 | 110 | | | | |
| | 3 | 90 | | | | |
| 200 | 1 | 90 | 242 | 160 | 172 | 356 |
| | 2 | 140 | | | | |
| | 3 | 110 | | | | |

Double Rod Cylinders

DIN Cylinder Range : FPCC double rod cylinders are only available with mounting styles JJ, C and DD and rod numbers 1 and 2. These cylinders do not conform to DIN 24 554.

Rod Strength : Double rod cylinders employ two separate piston rods, with one screwed into the end of the other within the piston assembly. As a result, one piston rod is stronger than the other. The stronger rod can be identified by the letter 'K' stamped on its end. Different maximum pressure ratings apply to the stronger and weaker rods of a double rod cylinder.

Minimum Stroke Length – Female Rod Ends : Where a female piston rod end is required on a double rod cylinder with a stroke of 80mm or less, and a bore of 80mm or above, please consult the factory.

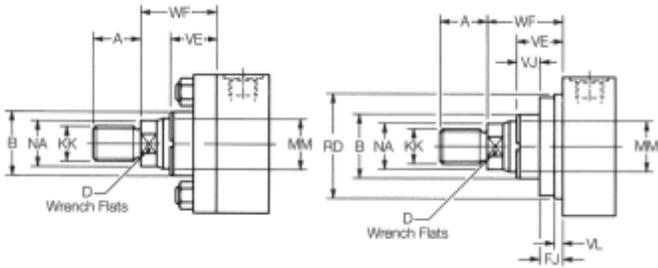
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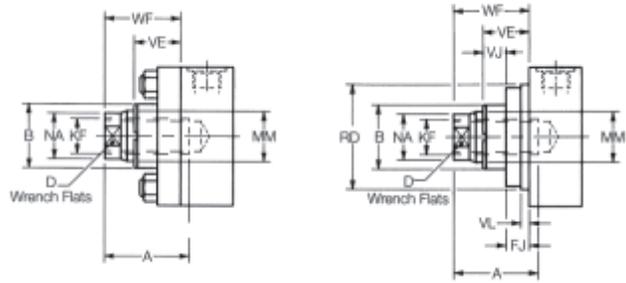
PISTON ROD END DATA & THREADS

TIE ROD DESIGN CYLINDERS - Rated for working of 160 Bar & Test Pressure of 210 Bar

MALE THREADS



FEMALE THREADS



| Bore Ø | Rod No. | MM Rod Ø | Male Threads | | Female Threads | | B _{f9} | D | NA | VE | WF | VL min | RD _{f8} | VJ | FJ |
|--------|---------|----------|--------------|-----|----------------|-----|-----------------|-----|-----|----|----|--------|------------------|----|----|
| | | | KK | A | KF | A | | | | | | | | | |
| 40 | 1 | 18 | M14x1.5 | 18 | M12x1.25 | 18 | 30 | 15 | 17 | 16 | 35 | 3 | 62 | 6 | 10 |
| | 2 | 28 | M20x1.5 | 28 | M20x1.5 | 28 | 42 | 22 | 26 | 22 | 35 | 3 | 62 | 12 | 10 |
| 50 | 1 | 22 | M16x1.5 | 22 | M16x1.5 | 22 | 34 | 18 | 21 | 22 | 41 | 4 | 74 | 6 | 16 |
| | 2 | 36 | M27x2 | 36 | M27x2 | 36 | 50 | 30 | 34 | 25 | 41 | 4 | 74 | 9 | 16 |
| | 3 | 28 | M20x1.5 | 28 | M20x1.5 | 28 | 42 | 22 | 26 | 22 | 41 | 4 | 74 | 6 | 16 |
| 63 | 1 | 28 | M20x1.5 | 28 | M20x1.5 | 28 | 42 | 22 | 26 | 22 | 48 | 4 | 75 | 6 | 16 |
| | 2 | 45 | M33x2 | 45 | M33x2 | 45 | 60 | 39 | 43 | 29 | 48 | 4 | 88 | 13 | 16 |
| | 3 | 36 | M27x2 | 36 | M27x2 | 36 | 50 | 30 | 34 | 25 | 48 | 4 | 88 | 9 | 16 |
| 80 | 1 | 36 | M27x2 | 36 | M27x2 | 36 | 50 | 30 | 34 | 25 | 51 | 4 | 82 | 5 | 20 |
| | 2 | 56 | M42x2 | 56 | M42x2 | 56 | 72 | 48 | 54 | 29 | 51 | 4 | 105 | 9 | 20 |
| | 3 | 45 | M33x2 | 45 | M33x2 | 45 | 60 | 39 | 43 | 29 | 51 | 4 | 105 | 9 | 20 |
| 100 | 1 | 45 | M33x2 | 45 | M33x2 | 45 | 60 | 39 | 43 | 29 | 57 | 5 | 92 | 7 | 22 |
| | 2 | 70 | M48x2 | 63 | M48x2 | 63 | 88 | 62 | 68 | 32 | 57 | 5 | 125 | 10 | 10 |
| | 3 | 56 | M42x2 | 56 | M42x2 | 56 | 72 | 48 | 54 | 29 | 57 | 5 | 125 | 7 | 7 |
| 125 | 1 | 56 | M42x2 | 56 | M42x2 | 56 | 72 | 48 | 54 | 29 | 57 | 5 | 105 | 9 | 20 |
| | 2 | 90 | M64x3 | 85 | M64x3 | 85 | 108 | 80 | 88 | 32 | 57 | 5 | 150 | 10 | 22 |
| | 3 | 70 | M48x2 | 63 | M48x2 | 63 | 88 | 62 | 68 | 32 | 57 | 5 | 150 | 10 | 22 |
| 160 | 1 | 70 | M48x2 | 63 | M48x2 | 63 | 88 | 62 | 68 | 32 | 57 | 5 | 125 | 10 | 22 |
| | 2 | 110 | M80x3 | 95 | M80x3 | 95 | 133 | 100 | 108 | 32 | 57 | 5 | 170 | 7 | 25 |
| | 3 | 90 | M64x3 | 85 | M64x3 | 85 | 108 | 80 | 88 | 32 | 57 | 5 | 170 | 7 | 25 |
| 200 | 1 | 90 | M64x3 | 85 | M64x3 | 85 | 108 | 80 | 88 | 32 | 57 | 5 | 150 | 10 | 22 |
| | 2 | 140 | M100x3 | 112 | M100x3 | 112 | 163 | 128 | 138 | 32 | 57 | 5 | 210 | 7 | 25 |
| | 3 | 110 | M80x3 | 95 | M80x3 | 95 | 133 | 100 | 108 | 32 | 57 | 5 | 210 | 7 | 25 |



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