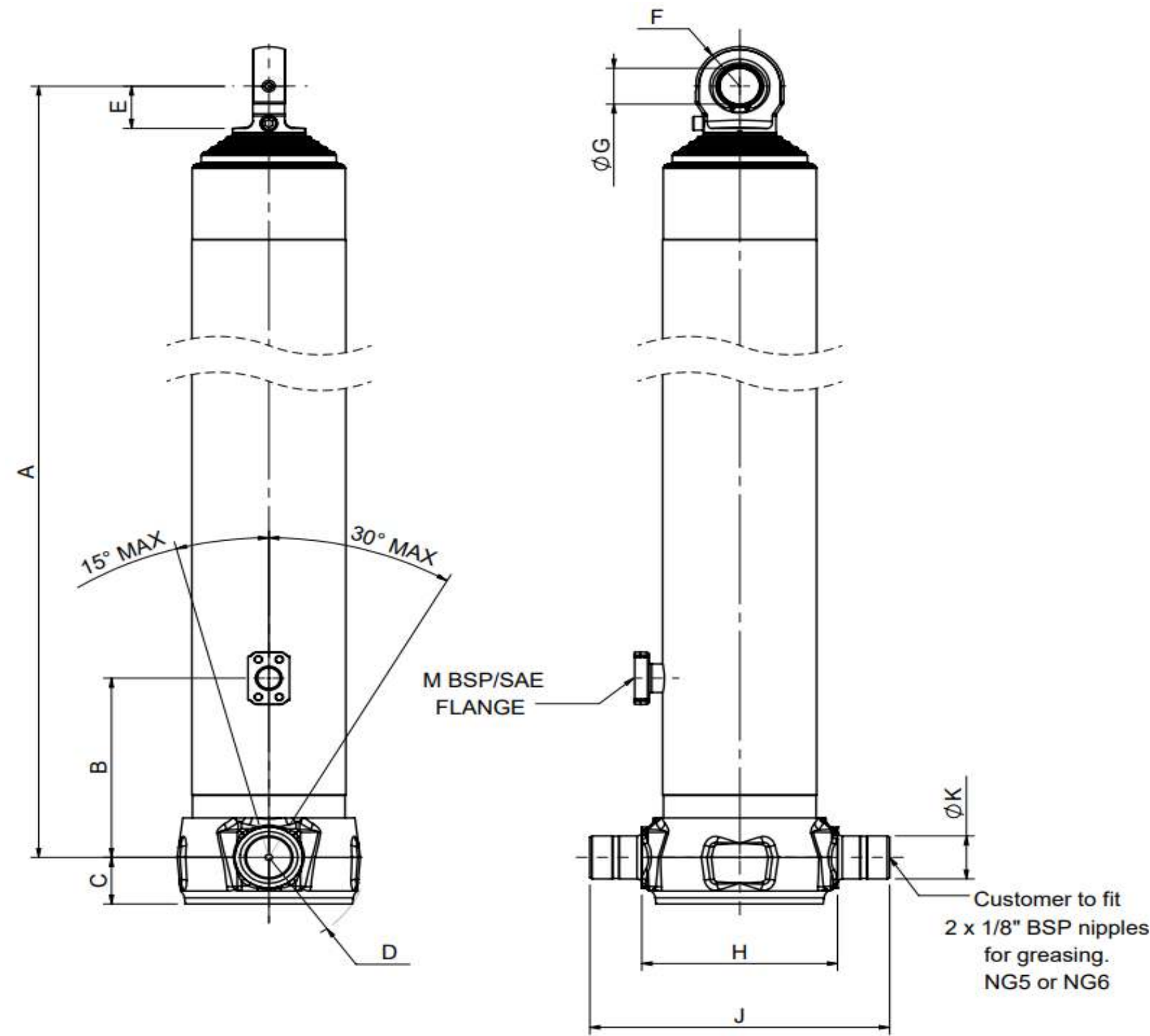


# Datasheet for Cylinder HP170S56230R40A02

5 stage cylinder with trunnion mount & spherical eye



Final Stage Chrome Plated

Approx. weight 227kg

| SPECIFICATION |                         | TIPPING CAPACITY 35-55 TONNES |                  |                          |
|---------------|-------------------------|-------------------------------|------------------|--------------------------|
| Stage         | Tube Diameter<br>( mm ) | Length<br>( mm )              | Stroke<br>( mm ) | Swept Volume<br>(litres) |
| Base          | 191                     | 1460                          | ----             | -                        |
| 1st Stage     | 169                     | 1450                          | 1238             | 27.8                     |
| 2nd Stage     | 149                     | 1450                          | 1248             | 21.8                     |
| 3rd Stage     | 129                     | 1450                          | 1248             | 16.3                     |
| 4th Stage     | 110                     | 1450                          | 1248             | 11.9                     |
| 5th Stage     | 91                      | 1475                          | 1248             | 8.1                      |
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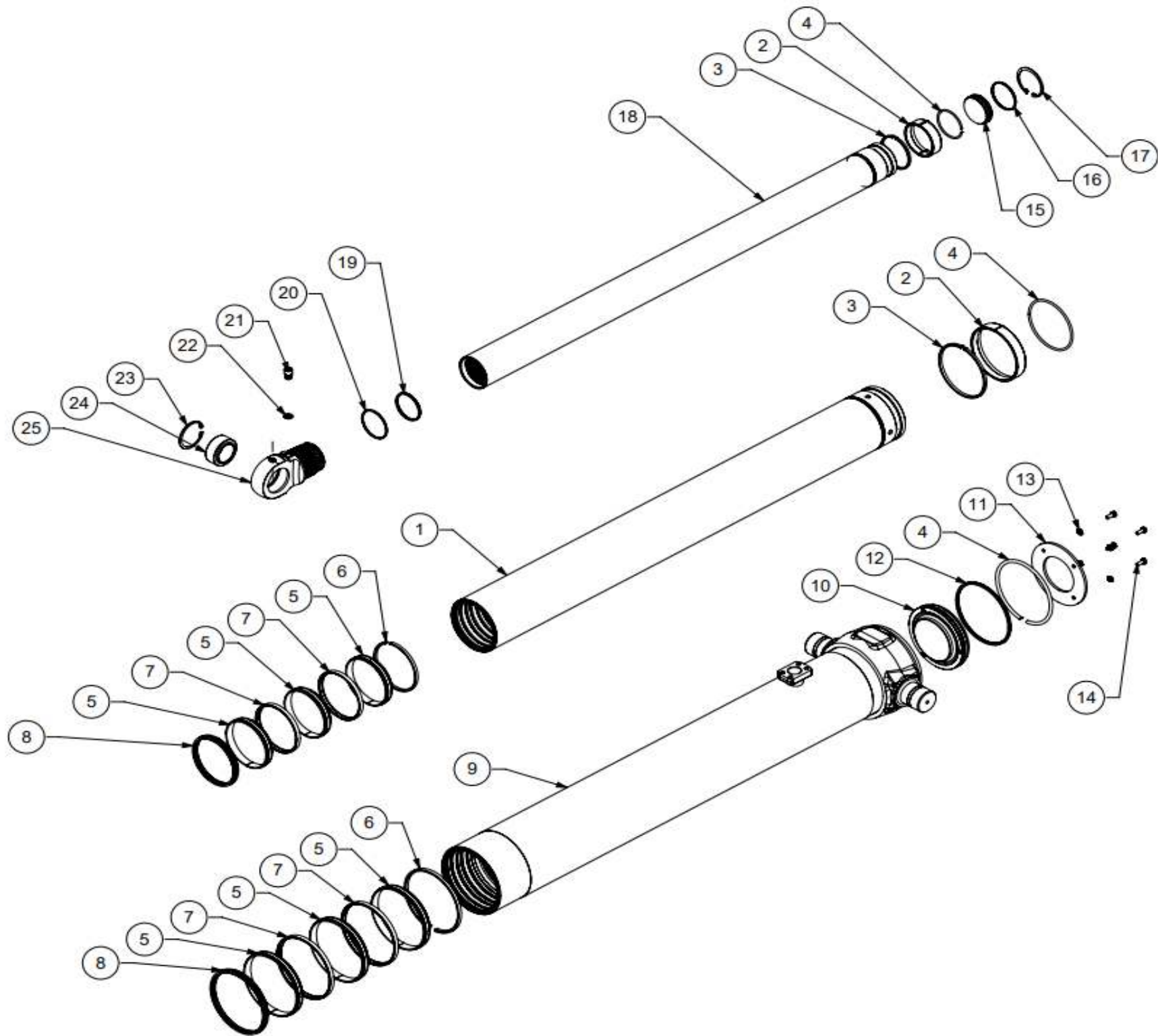
| APPLICATION INFORMATION  |     |     |                  |      |        |  |  |  |  |
|--------------------------|-----|-----|------------------|------|--------|--|--|--|--|
| Working Pressure         | 198 | bar | Swept Oil Volume | 85.8 | litres |  |  |  |  |
| Maximum Pressure         | 250 | bar | Priming Volume   | 6.6  | litres |  |  |  |  |
| Maximum 1st Stage Thrust | 265 | kN  | Total Volume     | 92.4 | litres |  |  |  |  |

| DIMENSIONS |        |    |   |     |    |    |                  |    |    |                   |
|------------|--------|----|---|-----|----|----|------------------|----|----|-------------------|
| A          | 1553.5 | mm | D | 123 | mm | ØG | 50.025<br>50.000 | mm | ØK | 60.00<br>59.90 mm |
| B          | 400    | mm | E | 58  | mm | H  | 245              | mm |    |                   |
| C          | 65     | mm | F | 55  | mm | J  | 375              | mm | M  | 1" SAE / G1"      |

| Notes |                                                                                                 |
|-------|-------------------------------------------------------------------------------------------------|
| 1.    | This cylinder is intended for lifting purposes only and side load conditions should be avoided. |
| 2.    | Cylinder is painted in primer to RAL9005                                                        |

# HP170S56230R40A02 Spare Parts Diagram

5 stage cylinder with trunnion mount & spherical eye



| PARTS              | REF     | PART NUMBERS     |                                                                   |                   |                |           |           |
|--------------------|---------|------------------|-------------------------------------------------------------------|-------------------|----------------|-----------|-----------|
| Base tube          | 9       | HPBA191R40011460 |                                                                   |                   |                |           |           |
|                    |         | 1st Stage        | 2nd Stage                                                         | 3rd Stage         | 4th Stage      | 5th Stage |           |
| Inters             | 1       | HPIN1690011450   | HPIN1490011450                                                    | HPIN1290011450    | HPIN1100011450 |           |           |
| Small Inner        | 18      | HPSI091A0011475C |                                                                   |                   |                |           |           |
| Seal Kit           |         | SKPB175/01       | (SEALS ARE SOLD AS A KIT ONLY - INDIVIDUAL PARTS ARE UNAVAILABLE) |                   |                |           |           |
|                    |         | Base tube        | 1st Stage                                                         | 2nd Stage         | 3rd Stage      | 4th Stage | 5th Stage |
| Main Seals         | 7       | SAM169/12        | SAM149/12                                                         | SAM129/12         | SAM110/12      | SAM91/12  |           |
| Head Bearings      | 5       | BRH169/12        | BRH149/12                                                         | BRH129/12         | BRH110/12      | BRH91/12  |           |
| Wiper Seal         | 8       | EWM169/12        | EWM149/12                                                         | EWM129/12         | EWM110/12      | EWM91/12  |           |
| Base Pad Seal      | 12      | OR161/5.33/N/70  | OR161/5.33/N/90/AE                                                |                   |                |           |           |
| Blanking Plug Seal | 16      | OR71/2.62/N/70   | OR71/2.62/N/90/AE                                                 |                   |                |           |           |
| Cross Head Seals   | 19 & 20 | OR73/3.53/N/70   | OR69/3.53/N/70                                                    | OR69/3.53/N/90/AE |                |           |           |
|                    |         | Base tube        | 1st Stage                                                         | 2nd Stage         | 3rd Stage      | 4th Stage | 5th Stage |
| Spring washer      | 13      | WS550/M8/ZP      |                                                                   |                   |                |           |           |
| Bolts              | 14      | BM8/C/20/ZP      |                                                                   |                   |                |           |           |
| Snap Ring          | 4       | SRM175/02        | SRM155/01                                                         | SRM135/01         | SRM116/01      | SRM97/01  | SRM78/05  |
| Internal Stop Ring | 6       | SRM180/07        | SRM159/07                                                         | SRM139/07         | SRM119/07      | SRM81/07  |           |
| External Stop Ring | 3       |                  | SRM163/06                                                         | SRM144/06         | SRM124/06      | SRM106/06 | SRM87/06  |
| Slider Bearing     | 2       |                  | BRS169/02                                                         | BRS149/02         | BRS129/02      | BRS110/02 | BRS91/02  |
| Locking Screw      |         | KE74             |                                                                   |                   |                |           |           |
| Cross Head         | 25      | RCE91/01         |                                                                   |                   |                |           |           |
| Bearing            | 24      | BJ37             |                                                                   |                   |                |           |           |
| Circlip            | 23      | PS149/75         |                                                                   |                   |                |           |           |
| Bleed Plug         | 21      | PA39             |                                                                   |                   |                |           |           |
| Dowty Washer       | 22      | DPP45B/SC        |                                                                   |                   |                |           |           |
| Base pad           | 10      | RBM191/01        |                                                                   |                   |                |           |           |
| Base Pad Ring      | 11      | BPR191/01        |                                                                   |                   |                |           |           |
| Blanking Plug      | 15      | EC91/01          |                                                                   |                   |                |           |           |
| Blanking Plug Clip | 17      | PS149/80         |                                                                   |                   |                |           |           |



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Technical Specifications are subject to change without notice  
Date Created/Updated: 13/08/24  
Refer [www.edbro.com](http://www.edbro.com) to confirm latest specification  
All dimensions are in mm, unless otherwise stated