



Wye Cylinder Engineering

Manufacturers of hydraulic cylinders,
sub contract C.N.C. machining,
cylinder tube honing

Piston type multi stage cylinders



Within this range there are many sizes and combinations available from stock. The design / construction of this cylinder can cover a wide range of tipping, lifting & general applications within agricultural industry.

The range has and continues to grow, for volume enquiries cylinders can be manufactured to customer's preferred lengths i.e. closed centres & stroke.

This range can be made in single stage up to four stages.

Cylinder Example

2 stage: 12/8 3 stage: 12/8/5 4 stage: 17/12/8/5

12/8/5 represents the tonnage available from each stage, calculated at a working pressure of 138 bar (2000 psi) – max working pressure 200 bar (2900 psi).
– Figures shown are relative to a vertical lift.

Also within our range:

Double acting cylinders

Single acting cylinders

Brake cylinders

Displacement cylinders

Displacement type multi stage cylinders

Double acting multi stage cylinders

Customer specific cylinders



Designed and
manufactured
in the UK

General Specification

All cylinder stages are manufactured from high quality smooth bore tube and bright drawn bar. For more demanding working conditions we can offer a chromed version where the stages are hard chrome plated, this in turn will offer some protection against corrosion.

Standard Features throughout the range

- 1 Very hard wearing polyurethane piston seals fitted to all stages.
- 2 All pistons are fitted with a separate bearing ring/s for added support.
- 3 All gland nuts are fitted with either PTFE or Acetal bearing strip chosen for extensive wear and low friction Properties.
- 4 Each stage when closing is being wiped by a high quality wiper ring, which has been designed specifically to keep out the maximum amount of contamination.
- 5 All gland nuts are headed for easy retraction, reducing servicing down time.

A number of cylinders from the chart below can be supplied from stock. It is also possible to develop further sizes and lengths within these combinations for new equipment design.

AGRICULTURAL TIPPING CYLINDERS

| | Part No | Stage Tonnage's | Closed Crs | Open Crs | Stroke | Pin Dia | Rod Dia | Base Dia | Port Size (F) | | |
|------------------------|------------------------------|-----------------|------------|----------|----------|----------|----------|----------|---------------|----------------|--|
| STANDARD DESIGN | | | | | | | | | | | |
| 2 Stage | C916/A | 4/2 | 533 mm | 1233 mm | 700 mm | 20 mm | 31.75 mm | 70 mm | 3/8" BSP | | |
| | C916/B | 4/2 | 660 mm | 1613 mm | 953 mm | 20 mm | 31.75 mm | 70 mm | 3/8" BSP | | |
| | C916/C | 4/2 | 737 mm | 1844 mm | 1107 mm | 20 mm | 31.75 mm | 70 mm | 3/8" BSP | | |
| | NEW | 5/3 | AS REQD | TBA | TBA | 20/22 mm | 38.10 mm | 80 mm | 3/8" BSP | | |
| | C905/B | 7/4 | 914 mm | 2298 mm | 1384 mm | 25.4 mm | 44.45 mm | 90 mm | 1/2" BSP | | |
| | C905/E | 7/4 | 660 mm | 1613 mm | 953 mm | 25.4 mm | 44.45 mm | 90 mm | 1/2" BSP | | |
| | C909/A | 10/5 | 876 mm | 2251 mm | 1375 mm | 25.4 mm | 44.45 mm | 105 mm | 1/2" BSP | | |
| | C909/C | 10/5 | 673 mm | 1642 mm | 969 mm | 25.4 mm | 44.45 mm | 105 mm | 1/2" BSP | | |
| | C909/E | 10/5 | 914 mm | 2298 mm | 1384 mm | 25.4 mm | 44.45 mm | 105 mm | 1/2" BSP | | |
| | C909/F | 10/5 | 1067 mm | 2820 mm | 1753 mm | 25.4 mm | 44.45 mm | 105 mm | 1/2" BSP | | |
| | C909/G | 10/5 | 978 mm | 2565 mm | 1587 mm | 25.4 mm | 44.45 mm | 105 mm | 1/2" BSP | | |
| | C909/J | 10/5 | 711 mm | 1746 mm | 1035 mm | 25.4 mm | 44.45 mm | 105 mm | 1/2" BSP | | |
| | C902/B | 12/8 | 1067 mm | 2794 mm | 1727 mm | 31.75 mm | 50.8 mm | 120 mm | 1/2" BSP | | |
| | C902/C | 12/8 | 914 mm | 2317 mm | 1403 mm | 31.75 mm | 50.8 mm | 120 mm | 1/2" BSP | | |
| C902/E | 12/8 | 711 mm | 1708 mm | 997 mm | 31.75 mm | 50.8 mm | 120 mm | 1/2" BSP | | | |
| 3 Stage | NEW | 7/4/2 | AS REQD | TBA | TBA | 20 mm | 31.75 mm | 90 mm | 1/2" BSP | | |
| | NEW | 8/5/3 | AS REQD | TBA | TBA | 20/22 mm | 38.10 mm | 100 mm | 1/2" BSP | | |
| | C901/A | 10/7/4 | 924 mm | 2917 mm | 1993 mm | 25.4 mm | 44.45 mm | 105 mm | 1/2" BSP | | |
| | C901/B | 10/7/4 | 876 mm | 2770 mm | 1894 mm | 25.4 mm | 44.45 mm | 105 mm | 1/2" BSP | | |
| | C901/D | 10/7/4 | 711 mm | 2131 mm | 1420 mm | 25.4 mm | 44.45 mm | 105 mm | 1/2" BSP | | |
| | C900/B | 12/8/5 | 914 mm | 2945 mm | 2031 mm | 31.75 mm | 50.8 mm | 120 mm | 1/2" BSP | | |
| | C900/C | 12/8/5 | 1092 mm | 3540 mm | 2448 mm | 31.75 mm | 50.8 mm | 120 mm | 1/2" BSP | | |
| | C900/E | 12/8/5 | 1016 mm | 3338 mm | 2322 mm | 31.75 mm | 50.8 mm | 120 mm | 1/2" BSP | | |
| | 'HS' HIGH SPEC DESIGN | | | | | | | | | | |
| | 3 Stage | HS900/B | 12/8/5 | 914 mm | 2915 mm | 2001 mm | 31.75 mm | 50.8 mm | 120 mm | 1/2" BSP | |
| HS903/A | | 12/8/5 | 1245 mm | 4065 mm | 2820 mm | 31.75 mm | 50.8 mm | 120 mm | 1/2" BSP | | |
| NEW | | 14/8/5 | AS REQD | TBA | TBA | 31.75 mm | 50.8 mm | 127 mm | 1/2" BSP | | |
| HS911/A | | 17/10/7 | 1085 mm | 3473 mm | 2388 mm | 35 mm | 50.8 mm | 146 mm | 1/2" BSP | Chromed Stages | |
| HS911/B | | 17/10/7 | 1161 mm | 3777 mm | 2616 mm | 35 mm | 50.8 mm | 146 mm | 1/2" BSP | Chromed Stages | |
| NEW | | 17/12/8 | AS REQD | TBA | TBA | 31.75 mm | 50.8 mm | 146 mm | 1/2" BSP | | |
| 4 Stage | NEW | 17/12/8/5 | AS REQD | TBA | TBA | 38.1 mm | 50.8 mm | 146 mm | 1/2" BSP | | |

NOTES – 1 All tonnage's shown in column two have been calculated @ 2000 PSI (138 BAR). 2 All the above cylinders can be supplied with chromed stages if required. 3 HS911/A & HS911/B are supplied with chromed stages as standard. 4 If required we may be able to develop any of the above cylinders in to a displacement design more inline with a commercial specification.

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