



## 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

Hydraulic hand pump

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.

## IMPORTANT NOTE

This range of tipping cylinders are suitable for light to medium duty agricultural tipping trailers, and is an entry level product where cost is an important factor in terms of the overall finished product.

Please note that the tipping stages (outside tube diameters) have no protection against corrosion/rusting (as shown in the main image) and are not covered by the product's standard warranty.

Most tipping cylinders can be supplied with hard chrome plated stages if required, please contact our technical department to discuss in further detail.

## AGRICULTURAL TIPPING CYLINDERS

	Part No Tonnage's	Stage	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	
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
	C901/J	10/7/4	1067 mm	3478.5 mm	2411.5 mm	25.4 mm	44.45 mm	105 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.

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