

Product Specifications

Catford Yellow Line Industrial Grade Hydraulic Cylinders

Cylinder Type:

- Double Acting with Clevis ends

4 Port Cylinder:

- Allowing simple easy access around machinery brackets

Cylinder Working Pressure:

- 210 Bar - 3045 PSI

Cylinder Test Pressure:

- 315 Bar - 4568 PSI

Seals Maximum Operating Pressures and Conditions:

- Pressures: 414 Bar - 6000 PSI
- Temperature: -30°C to +110°C
- Speed: 0.5 Metres Per Second
- Shock and Load Holding Capabilities
- Double acting K-DAS piston seal providing positive displacement under all rated pressure situations



Rod Material & Hardening:

- EN8D/C45 round bar
- Toughened and Induction Hardened
- Chrome Thickness: 20 to 30 Microns hard chromed piston rod for superior corrosion resistance

Tube Material:

- CDS ST52/E355 steel tube
- Seamless steel tube accurately honed to ensure smooth operation and extended seal life

End Head, Rod End and Piston Material:

- EN8D/C45 tensile strength - 650 N/mm²

Gland Material:

- SG IRON SG500/7 Spheroidal Graphite Cast Iron

Colour:

- Choice of Industrial Gloss Yellow or Industrial Gloss Black

Machining Tolerances:

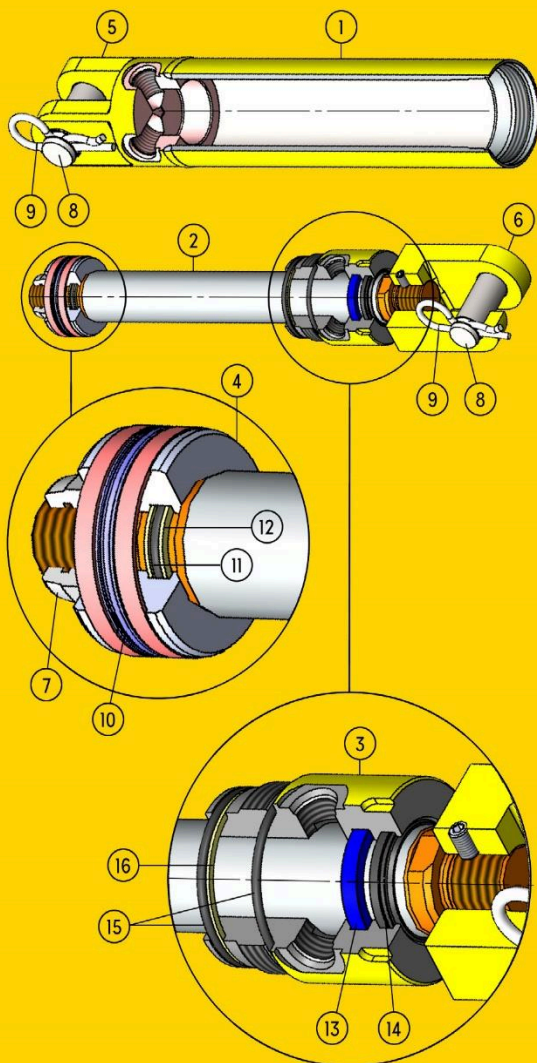
- All threads machined to 2A/B specification
- All pin holes machined to D9 tolerance
- All machine surface finishes to be 3.2um Ra.



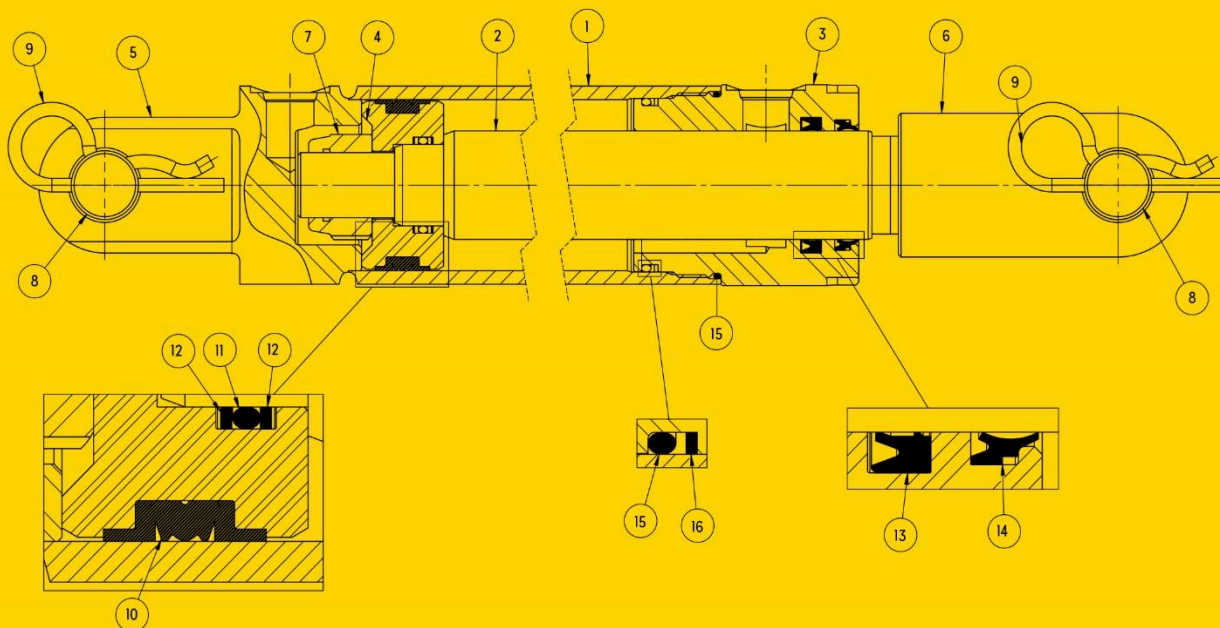
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Mobile 0418 641 566
Web www.catford.com.au
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Part No.	Bore	Stroke	Rod diameter	Closed length	Open length	Port size	Pin diameter	Weight KG	Price Inc. GST
CRY152	1-1/2" 40mm	2" - 51mm	7/8" 22mm	11 1/2" - 292mm	13 1/2" - 343mm	9/16" UN "O" Ring	3/4" 19.05mm	6.4	\$345
CRY154		4" - 102mm		13 1/2" - 343mm	17 1/2" - 444mm			6.7	\$355
CRY156		6" - 152mm		15 1/2" - 393mm	21 1/2" - 546mm			7	\$360
CRY158		8" - 203mm		17 1/2" - 444mm	25 1/2" - 647mm			7.3	\$365
CRY1510		10" - 254mm		19 1/2" - 495mm	29 1/2" - 749mm			7.5	\$370
CRY1512		12" - 305mm		21 1/2" - 546mm	33 1/2" - 851mm			7.8	\$375
CRY1514		14" - 356mm		23 1/2" - 597mm	37 1/2" - 953mm			8.1	\$405
CRY1516		16" - 406mm		25 1/2" - 647mm	41 1/2" - 1053mm			8.3	\$415
CRY1518		18" - 457mm		27 1/2" - 698mm	45 1/2" - 1155mm			8.6	\$425
CRY1520		20" - 508mm		29 1/2" - 749mm	49 1/2" - 1257mm			8.9	\$430
CRY1522		22" - 559mm		31 1/2" - 800mm	53 1/2" - 1359mm			9.3	\$450
CRY1524		24" - 610mm		33 1/2" - 851mm	57 1/2" - 1460mm			9.4	\$465
CRY1530		30" - 762mm		39 1/2" - 1003mm	69 1/2" - 1765mm			10.2	\$500
CRY1536		36" - 914mm		45 1/2" - 1155mm	81 1/2" - 2069mm			11	\$550
CRY1548		48" - 1219mm		57 1/2" - 1460mm	105 1/2" - 2679mm			13.5	\$625
CRY22	2" 50mm	2" - 51mm	1-1/4" 32mm	14 1/4" - 362mm	16 1/4" - 413mm	9/16" UN "O" Ring	1" 25.4mm	6.6	\$355
CRY24		4" - 102mm		16 1/4" - 413mm	20 1/4" - 514mm			7.4	\$360
CRY26		6" - 152mm		18 1/4" - 463mm	24 1/4" - 616mm			8.2	\$365
CRY28		8" - 203mm		20 1/4" - 514mm	28 1/4" - 717mm			9	\$370
CRY210		10" - 254mm		22 1/4" - 565mm	32 1/4" - 819mm			9.8	\$375
CRY212		12" - 305mm		24 1/4" - 616mm	36 1/4" - 921mm			10.6	\$390
CRY214		14" - 356mm		26 1/4" - 667mm	40 1/4" - 1022mm			11.2	\$410
CRY216		16" - 406mm		28 1/4" - 717mm	44 1/4" - 1123mm			12.2	\$420
CRY218		18" - 457mm		30 1/4" - 768mm	48 1/4" - 1225mm			13	\$425
CRY220		20" - 508mm		32 1/4" - 819mm	52 1/4" - 1327mm			13.8	\$435
CRY222		22" - 559mm		34 1/4" - 870mm	56 1/4" - 1429mm			14.6	\$460
CRY224		24" - 610mm		36 1/4" - 921mm	60 1/4" - 1530mm			15.4	\$475
CRY226		26" - 660mm		38 1/4" - 971mm	64 1/4" - 1631mm			16.2	\$500
CRY228		28" - 711mm		40 1/4" - 1022mm	68 1/4" - 1733mm			17	\$550
CRY230		30" - 762mm		42 1/4" - 1073mm	72 1/4" - 1835mm			17.8	\$580
CRY236		36" - 914mm		48 1/4" - 1225mm	84 1/4" - 2139mm			20.2	\$600
CRY242		42" - 1067mm		54 1/4" - 1378mm	96 1/4" - 2445mm			22.6	\$670
CRY248		48" - 1219mm		60 1/4" - 1530mm	108 1/4" - 2749mm			25	\$690
CRY252	2-1/2" 63mm	2" - 51mm	1-1/2" 40mm	14 1/4" - 362mm	16 1/4" - 413mm	3/4" UN "O" Ring	1" 25.4mm	8.6	\$360
CRY254		4" - 102mm		16 1/4" - 413mm	20 1/4" - 514mm			9.1	\$365
CRY256		6" - 152mm		18 1/4" - 463mm	24 1/4" - 616mm			9.8	\$370
CRY258		8" - 203mm		20 1/4" - 514mm	28 1/4" - 717mm			10.8	\$375
CRY2510		10" - 254mm		22 1/4" - 565mm	32 1/4" - 819mm			11.9	\$380
CRY2512		12" - 305mm		24 1/4" - 616mm	36 1/4" - 921mm			12.8	\$390
CRY2514		14" - 356mm		26 1/4" - 667mm	40 1/4" - 1022mm			13.6	\$400
CRY2516		16" - 406mm		28 1/4" - 717mm	44 1/4" - 1123mm			14.1	\$405
CRY2518		18" - 457mm		30 1/4" - 768mm	48 1/4" - 1225mm			14.8	\$410
CRY2520		20" - 508mm		32 1/4" - 819mm	52 1/4" - 1327mm			15.7	\$435
CRY2522		22" - 559mm		34 1/4" - 870mm	56 1/4" - 1429mm			16.6	\$450
CRY2524		24" - 610mm		36 1/4" - 921mm	60 1/4" - 1530mm			17.6	\$475
CRY2526		26" - 660mm		38 1/4" - 971mm	64 1/4" - 1631mm			18.6	\$430
CRY2528		28" - 711mm		40 1/4" - 1022mm	68 1/4" - 1733mm			19.7	\$560
CRY2530		30" - 762mm		42 1/4" - 1073mm	72 1/4" - 1835mm			20.6	\$580
CRY2536		36" - 914mm		48 1/4" - 1225mm	84 1/4" - 2139mm			23.2	\$615
CRY2542		42" - 1067mm		54 1/4" - 1378mm	96 1/4" - 2445mm			26.2	\$735
CRY2548		48" - 1219mm		60 1/4" - 1530mm	108 1/4" - 2749mm			29.1	\$805

Clevis End Cylinder Product Diagram



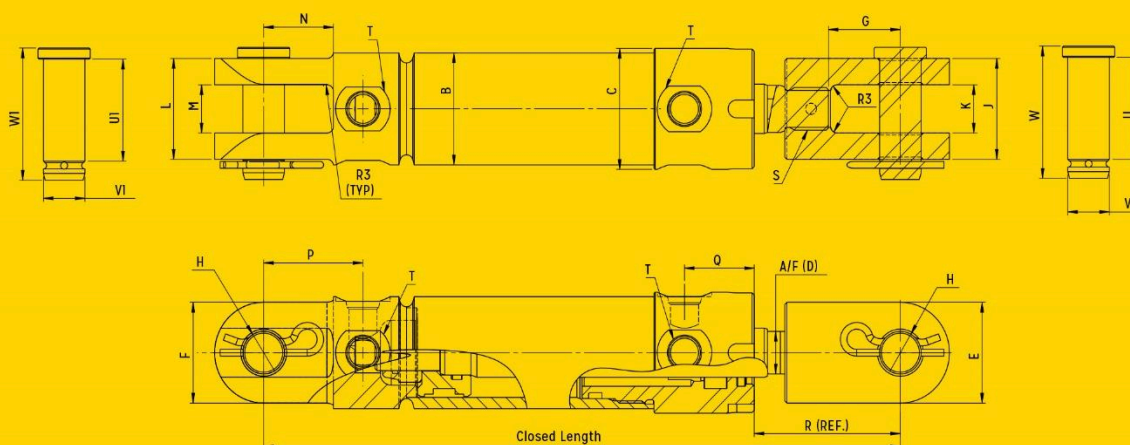
	PART	DESCRIPTION
1	CYLINDER TUBE	CDS ST52/E355 seamless steel tube, accurately honed to ensure smooth operation and extended seal life.
2	PISTON ROD	High precision grounded, EN8D/C45 round bars, toughened and induction hardened, hard chrome plated with deposit of 20-30 microns, tensile strength - 600 N/mm ² .
3	GLAND	Ductile cast iron - SG500/7, tensile strength - 500 N/mm ² .
4	PISTON	EN8D/C45 round bars, tensile strength - 650 N/mm ² .
5	REAR CLEVIS	EN8D/C45 round bars, tensile strength - 650 N/mm ² .
6	FRONT CLEVIS	EN8D/C45 round bars, tensile strength - 650 N/mm ² .
7	PISTON NUT	Gr 6 - Nyloc nut material UTS = 600N/mm ² .
8	CLEVIS PIN	EN24 - toughened, BS970 round bars, tensile strength - 750 N/mm ² .
9	BETA PIN	Spring steel for durability and ease of installation/removal.
10	PISTON SEAL	Double acting high pressure, heavy duty seal comprising an elastomeric profile seal ring, two back up rings & two guide rings. K-DAS piston seal.
11	PISTON O-RING	NBR O-ring, acrylonitrile-butadiene rubber (nitrile rubber).
12	PISTON BACK UP RING	PTEF back up ring, polytetrafluoroethylene, internal and external high pressure application, reciprocating and rotating movement, capable of large temperature fluctuations, static and dynamic suited.
13	ROD PRESSURE SEAL U-CUP	Double lip single acting seal with acetal polyamide back up ring for high pressure applications, abrasive and wear resistant, compensates deflections of piston rod, restricts air and dirt entry to system, suited to sudden load and high pressure, simple installation.
14	WIPER SEAL	Wiper seal ensures that foreign matter is not introduced into the system, PU material, compact design and ease of installation.
15	GLAND O-RING	NBR O-ring, acrylonitrile-butadiene rubber (nitrile rubber).
16	GLAND BACK UP RING	PTEF back up ring, polytetrafluoroethylene, internal and external high pressure application, reciprocating and rotating movement, capable of large temperature fluctuations, static and dynamic suited.



CATFORD
HYDRAULICS PTY LTD

Email sales@catford.com.au
Mobile 0418 641 566
Web www.catford.com.au
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Clevis End Cylinder Installation Dimensions



BORE mm	ROD mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	J mm	K mm	L mm	M mm	N mm	P mm	Q mm	R mm	S-THREAD Inch	T-THREAD Inch	U mm	V mm	W mm	U1 mm	V1 mm	W1 mm
40	22	50	54	19	45	45	33	19.2	45	21.5	45	21.5	32	45.5	32	67	3/4"- 16UNF	9/16"- 18UNF	46	19.05	59	46	19.05	59
50	32	60	64	29	53	50	54	25.5	65	28.5	52	28	51	67	32	98	1-1/8"- 12UNF	9/16"- 18UNF	66	25.4	81	53	25.4	68
63	40	73	74	36	53	50	54	25.5	65	28.5	60	28	51	70	35	98	1-1/8"- 12UNF	3/4"- 16UNF	66	25.4	81	61	25.4	76
75	40	85	84	36	53	50	54	25.5	65	28.5	60	28	48	67	35	98	1-3/8"- 12UNF	3/4"- 16UNF	66	25.4	81	61	25.4	76
90	45	102	102	NA	53	63	54	25.4	65	28.5	68	28	47	66	35	91	1-3/8"- 12UNF	3/4"- 16UNF	66	25.4	81	69	25.4	84
100	45	115	115	41	53	63	54	25.5	65	28.5	68	28	45	64	30	98	1-3/8"- 12UNF	3/4"- 16UNF	66	25.4	81	69	25.4	84
125	50	140	140	NA	75	75	54	25.4	75	28.5	75	28	45	64	27	91	1-3/8"- 12UNF	3/4"- 16UNF	66	25.4	81	69	25.4	84
125	63	140	140	NA	75	75	54	25.4	75	28.5	75	28	45	64	27	91	1-3/8"- 12UNF	3/4"- 16UNF	66	25.4	81	69	25.4	84

Clevis End Cylinder Extension/Retraction Force

Cylinder Bore	Maximum Extension Force	Rod Size	Maximum Retraction Force	PSI
1 ½" - 40mm	2.0 tonne	7/8" - 22mm	1.5 tonne	2500
1 ½" - 40mm	2.4 tonne	7/8" - 22mm	1.8 tonne	3000
2" - 50mm	3.6 tonne	1 ¼" - 32mm	2.2 tonne	2500
2" - 50mm	4.3 tonne	1 ¼" - 32mm	2.6 tonne	3000
2 ½" - 63mm	5.6 tonne	1 ½" - 40mm	3.6 tonne	2500
2 ½" - 63mm	6.7 tonne	1 ½" - 40mm	4.3 tonne	3000
3" - 75mm	8.0 tonne	1 ½" - 40mm	6.0 tonne	2500
3" - 75mm	9.6 tonne	1 ½" - 40mm	7.2 tonne	3000
3 ½" - 90mm	11.0 tonne	1 ¾" - 45mm	8.2 tonne	2500
3 ½" - 90mm	13.1 tonne	1 ¾" - 45mm	9.8 tonne	3000
4" - 100mm	14.3 tonne	1 ¾" - 45mm	11.5 tonne	2500
4" - 100mm	17.1 tonne	1 ¾" - 45mm	13.8 tonne	3000
5" - 125mm	22.3 tonne	2" - 50mm	18.7 tonne	2500
5" - 125mm	26.7 tonne	2" - 50mm	22.4 tonne	3000
5" - 125mm	22.3 tonne	2 ½" - 63mm	16.7 tonne	2500
5" - 125mm	26.7 tonne	2 ½" - 63mm	20.0 tonne	3000



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Catford Yellow Line Industrial Grade Hydraulic Agricultural Cylinders

Cylinder Type:

* Double acting with clevis ends

4 Port Cylinder

* Allowing simple easy access around machinery brackets

Cylinder Working Pressure:

* 210 Bar - 3045 PSI

Cylinder Test Pressure

* 315 Bar - 4568 PSI

Clevis End Head with Ports, Rod End Clevis and Piston Material:

* EN8D/C45 tensile strength - 650 N/mm²

* Rod clevis and barrel clevis are fully machined, not foundry cast steel

Tube Material:

* CDS ST52/E355 steel tube

* Seamless steel tube accurately honed to ensure smooth operation and extended seal life



Seals Maximum Operating Pressures and Conditions

* Pressures: 414 Bar - 6000 PSI

* Temperature: -30°C to +110°C

* Speed: 0.5 metres per second

* Shock and load holding capabilities

* Double acting K-DAS piston seal providing positive displacement under all rated pressure situations

Machining Tolerances:

* All threads machined to 2A/B specification

* All pin holes machined to D9 tolerance

* All machine surface finishes to 3.2um Ra.

Colour

* Choice of industrial gloss yellow or industrial gloss black



Rod Material & Hardening:

* EN8D/C45 round bar

* Toughened and induction hardened

* Chrome thickness: 20 to 30 Microns
hard chromed piston rod for superior corrosion resistance (rods chromed in house)

Gland Material:

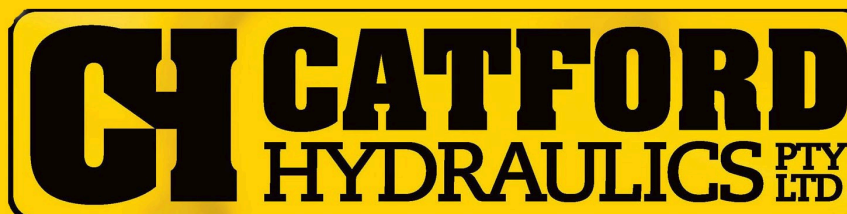
* SG IRON SG500/7 Spheroidal Graphite cast iron

All our products are certified worldwide with the following ISO standard:

* ISO 9001-2008 standard

* ISO 14001 & OSHAS 18001

* ISO 3834-2 (Fusion Welding Process)



MOB: 0418 641566

EMAIL: sales@catford.com.au

WEB: www.catford.com.au

ABN: 16 007 926 945