





























2012

Groeneveld Parts Book



Groeneveld CPL Systems Canada

CST Item List EP-0 Systems				
				
F000222 – Coupling Connector 3/16, (200/box) Milton Location: 307-5	F000223 – Coupling Connector, 5/16 Milton Location: 307-3	F000242 – Injector #9 F100484 – Injector #0 F100485 – Injector #1 F100486 – Injector #2 F100487 – Injector #3 F100488 – Injector #4 F100490 – Injector #6 F100492 – Injector #8 Milton Location: 302-4	F000436 – Connector, Straight, M8 x 3/16 tube Milton Location: 310-5	F000580 – Olive, 5/16 Milton Location: 307-2
				
F000584 – Connector Nut, 3/16 Milton Location: 307-5	F000585 – Olive, 3/16 Milton Location: 307-5	F000604 – Connector, Straight, 1/8 NPT M x 3/16 tube Milton Location: KBAN	F000644 – Insert for 5/16 Mainline Milton Location: KBAN	F100500 – Meter-ring small, 0.8mm Milton Location: 305-3
				
F100502 – Meter ring, large, 3.5mm Milton Location: 305-3	F101410 – Connector, 90 deg. 1/8 NPT M x 3/16 tube Milton Location: KBAN	F101412 – Tee Connector, 5-16-5/16- 5/16, (100/box) Milton Location: KBAN	F102455 – Connector, Straight, M6 x 3/16 Tube Milton Location: KBAN	F102457 – Connector, 90 deg stud 6mm-8mm Milton Location: 310-5
				
F102719 – Seal Air Seal (fits Piston 407) Milton Location: 311-1	F103045 – Guide rod for 4kg with follow plate Milton Location: 311-3	F103049 – Reservoir lid Milton Location: 311-4	F103121 – Seal for bottom plate of 362.0 Milton Location: 311-1	F103643 – Locking set, reservoir cover Milton Location: 412-2

				
F104654 – O-ring & packing ring 42cc/60cc Milton Location: 311-5	F110028 – Valve, return valve new brass Milton Location: 311-5	F111409 – Guide Rod (for 6L Reservoir) Milton Location: 412-3	F113059 – Pressure indicator – flip flop Milton Location: 310-3	F113297 – Piston sleeve Milton Location: 311-2
				
F114697 – Pressure switch – 40 bar M14 x M14 Milton Location: 308-3	F115378 – Pump Follow Plate kit Milton Location: 311-2	F117084 – Reservoir for 4kg pump with follow plate Milton Location: 312-6	F110151 – O-ring for reservoir Milton Location: 310-2	F110010 – Block Transport, 4 Port F110011 – Block Transport, 7 Port F110012 – Block Transport, 9 Port F111751 – Block 14, port block Milton Location: 302-4
				
F103423 – Reduction connector, M8 x M8 Milton Location: 308-3	F110143 – Cable Harness- solenoid/press Milton Location: 408-0	F104837 – Plug ¼ BSB O-Ring type Milton Location: 303-2	F111299 – Cable Harness for Electric Timer Milton Location: KBAN	F103435 – Tubing, 5/16 Mainline Milton Location: CAGE 8
				
F125639 – Timer Electric with Alarm – 12 volt Milton Location: KBAN	F104440 – Connector angle 5/16 x ¼ O-Ring tube Milton Location: KBAN	F104441 – Connector, Straight, ¼ BSBP x 5/16 tube Milton Location: KBAN	F102775 – Plug Metering unit (400/box) Milton Location: 303-3	F104838 – Tee Connector female ¼ male x ¼ female Milton Location: 312-3

				
<p>F118011 - Pneumatic Timer, Dot Milton Location: 409-3</p>	<p>F118012 - Pressure indicator 1/4 " NPT Milton Location: 409-3</p>	<p>F118246 - Tubing, 3/16 Grease Single (m) Milton Location: CAGE 11</p>	<p>F118247 - Tubing, 3/16 Grease Tubing, Double Milton Location: CAGE 10</p>	<p>F118248 - Tubing, 3/16 Greasing Tubing, Triple Milton Location: CAGE 9</p>
	<p style="text-align: center;">NO IMAGE AVAILABLE</p>			
<p>F119077 - 42/4L/12V/NB/WG/OL/W C/DOT Milton Location: A103-1</p>	<p>F121942 - Repair kit for F110143 Milton Location: 306-1</p>	<p>F122976 - GreenLube EP-0 35lbs/15.9kg Milton Location: C106-1</p>	<p>F125712 - Valve Magnetic 12V Milton Location: 309-5</p>	<p>F190187 - Clevis Pin, Greaseable 5/8" Milton Location: 103-4</p>
				
<p>F190186 - Clevis Pin, Greaseable 1/2" Milton Location: 103-4</p>				

**CST Item List
TWIN Systems**

				
F000658 – Olive, 6mm Milton Location: 508-4	F000686 – Plug G 1/4 (brass) Milton Location: 508-4	F100531 – O-ring Milton Location: 704-2	F101063 – Connector nut, 6mm Milton Location: 507-1	F101065 – Connector nut, 90 deg. 1/8 BSP x 6mm tube Milton Location: 507-2
				
F104436 – Sealing ring, copper Milton Location: 508-4	F104513 – Connector, male, 1/8 x 6mm Milton Location: 612-3	F106743 – Tubing, 10mmODx2mm!Sx800m Milton Location: TUBERACK	F107460 – Bracket, Twin, mounting 4 port F107461 – Bracket, Twin, mounting, 6 port F107462 – Bracket, Twin, mounting 8 port F107464 – Bracket, Twin, mounting 3+3 port F107465 – Bracket, Twin, mounting 4+4 port F107466 – Bracket, Twin, mounting 6+6 port F176001 – Manifold, 8pt Trailer Axle Milton Location: 505-2	F109356 – Tubing, 10mmODx2mmIDx1900m Milton Location: TUBERACK
				
F110239 – Connector, Straight, 10mm- 10mm OD Milton Location: 611-3	F110240 – Connector Male, 1/4 NPT – 10mm OD Milton Location: 611-3	F110244 – Elbow, Connector 1/4 NPT 10 OD Milton Location: 611-3	F110518 – Connector, Male M6 – 6 OD Milton Location: 612-3	F110610 – Connector, Male, M8 – 6 OD Milton Location: 612-3



F110661 –
Tubing, Grease, 6mm, Single
Milton Location:
CAGE 15



F110662 –
Tubing, Grease, 6mm,
Double
Milton Location:
CAGE 14



F110663 –
Tubing, Grease, 6mm,
Triple
Milton Location: CAGE 13



F111393 – Block, Twin,
Transport, 4 Port
F111394 – Block, Twin,
Transport, 7 Port
F111395 – Block, Twin,
Transport, 9 Port
F111396 – Block, Twin,
Transport, 12 Port
F111638 – Block, Twin,
Transport, 8 Port
F111639 – Block, Twin,
Industrial 3+3 Port
F111640 – Block, Twin,
Industrial, 4+4 Port
F111697 – Block, Twin,
Industrial, 4 Port
F111699 – Block, Twin,
Industrial, 6 Port
F111952 – Block, Twin,
Transport, 14 Port
F111953 – Block, Twin,
18 Port
Milton Location: 503-2



F113779 –
Connector, straight, 1/8
BSP x 6mm tube
Milton Location: 507-2



F113779 –
Connector, Straight, 1/8 BSP x
6mm tube
Milton Location: 507-2



F113781 –
Coupling Connector,
6mm
Milton Location: 507-1



F114876 –
Elbow, 6mm tube x
8mm, male
Milton Location: 612-3




























F115460 –
Plug, Twin Injector Plug
Milton Location: 503-2



F117059 –
Twin-2 Timer, 24Vdc
Milton Location: 208-6

 <p>F119016 – Injector, Twin #0, NA F119017 – Injector, Twin #2, NA F119018 – Injector, Twin #1, NA F119019 – Injector, Twin #4, NA F119020 – Injector, Twin #6, NA F119021 – Injector, Twin #8, NA F119023 – Injector, Twin #9, NA F119024 – Injector, Twin #10, NA F119031 – Injector, Twin #3, NA Milton Location: 501-3</p>	 <p>F123548 – Pressure switch, 100 bar/TYCO Milton Location: 401-2</p>	 <p>F123550 – Pressure switch, 175 bar/TYCO Milton Location: 401-4</p>	 <p>F123724 – TWIN-3 Pump Cable/TYCO 7m Milton Location: 509-1</p>	 <p>F123725 – Pressure switch cable TYCO, 15m Milton Location: 506-0</p>
				
<p>F123727 – Pressure switch cable TYCO, 8m Milton Location: 506-0</p>	<p>F123728 – TWIN-3 Pump Cable/TYCO, 15m Milton Location: 510-1</p>	<p>F124297 – Pressure Switch, 125 bar with valve, TYCO Milton Location: 401-2</p>	<p>F124630 – TWIN-3 Pump 24Vdc/4L/TYCO Milton Location: B104-1</p>	<p>F124637 – TWIN-3 Pump 24Vdc/8L/TYCO Milton Location: A104-1</p>
				
<p>F125721 – Kit, Twin In-Line Pressure Switch, Mount Milton Location: 607-2</p>	<p>F178825 – Pressure switch 150 bar/TYCO Milton Location: 401-2</p>	<p>F191216 – Block, Twin, 4-way tee Milton Location: 505-4</p>	<p>F205696 – T-2 cable → T-3 Pump Adaptor Milton Location: 601-4</p>	<p>F123726 – Pressure switch cable TYCP 25m Milton Location: 507-0</p>

**CST Item List
Pipe & Air Fittings**





















				
F000323 - Tee Connector, G 1/8"-R 1/8" - G 1/8, male Milton Location: 309-2	F000542 - Connector, 90 deg stud 1/8 NPT M x 1 Milton Location: KBAN	F000543 - Connector, 90 deg stud 1/8 BSPF x 1/8 Milton Location: KBAN	F100056 - Coupler, Male, Quick Coupler Milton Location: 305-3	F100476 - Swivel, 90 deg 1/8 BSPM x 1/8 BSPM Milton Location: 308-4
				
F103083 - Quick Coupler, Female, 1/4 Milton Location: 203-3	F120867 - Quick Coupler, 1/4, High Flow Milton Location: 203-3	F100726 - Connector, 90 deg stud 1/8 BSP Fx 1/8 Milton Location: KBAN	F104537 - Tee coupling, 1/4 NPT x 1/4 NPT Milton Location: 108-3	F110339 - Swivel 1/8 - 1/8 Steel Milton Location: 412-2
				
F111493 - Coupling G 1/8 x 1/8 Milton Location: KBAN	F173514 - Bushing 1/4 - 1/8 Milton Location: 107-3	F190307 - Bushing 1/2 - 1/4 Milton Location: KBAN	F190312 - Nipple, pipe, 1/8 NPT brass, 2 Milton Location: 105-2	F190313 - Nipple pipe, 1/8" NPT, brass 3 Milton Location: 105-2
				
F190314 - Nipple, pipe, 1/8 NPT brass, 4 Milton Location: 105-2	F190320 - Reducing adaptor: 1/8" x 1/8" Milton Location: KBAN	F190321 - Reducing adaptor: 1/4 x 1/8 Milton Location: 107-3	F190322 - Reducing adaptor: 1/4 x 1/4 Milton Location: 107-3	F190328 - Nipple Hexnipple: 1/4 pipe Milton Location: KBAN
				
F190337 - Union coupling, 1/4 air brake Milton Location: 107-3	F190338 - Union coupling, 3/8 air brake Milton Location: 107-5	F190340 - Tee 1/4 air brake tubing Milton Location: 107-3	F190342 - Connector 1/4 tube x 1/4 NPT-F Milton Location: KBAN	F190345 - Connector, Straight, air 1/4 x 1/8 male Milton Location: KBAN























				
F190346 - Connector, Straight, 1/4" NPT M x 1/4 Milton Location: 108-1	F190352 - Connector, elbow 1/4 NPT M to 1/4" air Milton Location: KBAN	F190359 - Tee, 3/8" Tube Run x 1/4" NPT Milton Location: KBAN	F190360 - Tee 1/2" tube to 1/4 pipe Milton Location: 107-2	F190370 - Connector 1/4 Bulkhead Milton Location: 107-2
				
F190454 - Tee, extruded 1/8 NPT Milton Location: 108-3	F190459 - Tee, Male Branch, 1/4 NPT Milton Location: 108-3	F190464 - Elbow, 90 1/4 NPT F x 1/4 NPTM Milton Location: KBAN	F190972 - Quick coupler, male, SS, 1/4 Milton Location: 203-2	F191528 - Plug, Dryseal, 1/8 (Hex Head) Milton Location: 102-3
				
F104521 - Connector, 45 deg. Elbow, 1/8 m x 1/8 f Milton Location: 308-5	F190301 - Connector, 1/4 pipe coupling, brass Milton Location: 107-2	F112103 - 90 deg. Elbow adaptor R 1/4" - G 1/4" Milton Location: 403-4		

**CST Item List
Hose & JIC**















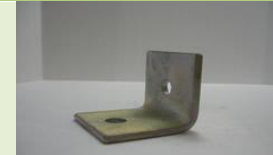





				
F112440 – Hose Fittings ¼- 10mm(E)+swivel Milton Location: 611-2	F113422 – HPH ¼" ID/12.0mmODd/250B (M) Milton Location: WORKBENCH	F113940 – Straight 6mm x ¼" insert Milton Location: 506-2	F113941 – Crimp Shell for ¼" Manuli Milton Location: 106-3	F115457 – S. insert 8mm x ¼" w/nut Milton Location: 506-2
				
F115458 – S. insert 10mm x 1/4" w/ nut Milton Location: 506-2	F116607 – Hose end fitting ¼" – 6mm (H) Milton Location: 609-3	F121011 – H.P.H 3/8" (Meters) Milton Location: WORKBENCH	F121037 – Crimp Shell for 3/8" Manuli Milton Location: 106-2	F122648 – Insert ¼" x 1/8" NPT Male SW Milton Location: 607-2
				
F174702 – Connector, Straight, ¼ JIC x 1/8 MPT M Milton Location: 104-5	F174703 – Connector, Straight, ¼ JIC x ¼ NPT M Milton Location: 104-4	F174704 – Connector, Straight, 3/8 JIC Mx ¼ NPTM Milton Location: 104-4	F174705 – Elbow 45 ¼ JIC M x 1/8 NPT M Milton Location: 104-4	F174706 – Elbow 45 ¼ JIC M x ¼ NPT M Milton Location: 104-4
				
F174707 – Elbow 90 ¼ JIC M x 1/8 NPT M Milton Location: 104-3	F174708 – Elbow 90 ¼ JIC M x ¼ NPT M Milton Location: 104-3	F174709 – Elbow 90 3/8 JIC M x ¼ NPT Milton Location: 104-3	F174711 – Elbow 90 ¼ JIC M x ¼ NPT M LNG Milton Location: 104-6	F174724 – Connector, Straight, ¼ JIC x 1/8 MPT F Milton Location: 105-4

				
F174725 - Connector, Straight, 1/4 JIC x 1/4 NPT F Milton Location: 105-4	F174728 - Tee 1/4 NPT x 2 way 1/4 JIC Milton Location: 105-4	F174730 - Tee 1/4 JIC #4 MxMxM Milton Location: 105-3	F176600 - Hose 1/4" Thermoplastic Milton Location: WORKBENCH	F190169 - Elbow 90 3/8 JIC M x 1/4 NPT M Milton Location: 104-2
				
F190587 - Elbow X-Long 90 1/4 JIC M x 1/4 Milton Location: 104-2	F191345 - Re-usable, 3/16 hose x 1/4 JIC Milton Location: 111-2	F195419 - Crimp Insert 1/4" - #4 FJICSW Milton Location: 106-3	F195606 - Crimp Insert #6 FJICSW Milton Location: 106-2	F195652 - Crimp Insert 1/4 #4 FJICSWx90 Milton Location: 106-4
				
F197136 - Re-usable #4 JIC F SW Insert Milton Location: 112-3	F197137 - Re-usable #4 Socket Milton Location : 112-3			

CST Item List Other				
				
F104550 – Spiral wrapping Small (M) Milton Location: CAGE 200	F104556 – Tyraps Large 14" Milton Location: WORKBENCH	F104557 – Straight, coupling, connector Milton Location: 203-3	F104579 – Timer, Junior, plug timer Milton Location: 206-6	F104581 – Timer Connector, 12 Plug Milton Location: 206-6
				
F104635 – Connector, Crimp, Female for B Milton Location: 206-6	F104657 – GreenLube Grease, 1kg Milton Location: G-PIT	F111781 – Extend adaptor 1/8 NPTF- 70mm Milton Location: 410-1	F111891 – Tyraps, small 8" Milton Location: WORKBENCH	F112487 – Coupling set, M14x1.5 – 1/4" Milton Location: 403-4
				
F112757 – Crimp connector (male) Milton Location: 206-6	F117540 – Spiral wrapping, Large (M) Milton Location: CAGE 100	F172057 – Kit, Double, weld on clamp 12mm Milton Location: 110-2	F176040 – Hose support clamp – 5/8" Milton Location: 202-3	F190039 – Connector, butt, elect., 14- 16 Milton Location: KBAN
				
F190040 – Ring Connector, 16-14 ga., blue, #10 Milton Location: KBAN	F190043 – Spade female, .250" Milton Location: 204-3	F190044 – Spade, Male No. 1856C Milton Location: 204-2	F190047 – Ring Connector, 12-10 ga #10, yellow Milton Location: 204-3	F190048 – Ring connector, 12-10, 3/8" yellow Milton Location: 204-2

				
F190545 – Fuse Holder In-Line, Mini Milton Location: KBAN	F190546 – Fuse, 10 Amp, Mini Milton Location: KBAN	F190547 – Fuse, 20 Amp, Mini-pkg of 5 Milton Location: 205-4	F190907 – Dustplug plastic, female Milton Location: 203-4	F190908 – Dustcap plastic, male, 1/4" Milton Location: 203-4
				
F191180 – Weather Pack plug for 2 female Milton Location: 210-4	F191181 – Weather Pack receptacle for 2 Milton Location: 210-4	F191183 – Weather Pack seal 2.85-2.03 Milton Location: 210-5	F191184 – Weather Pack terminal female pin Milton Location: 210-5	F191185 – Weather Pack terminal male pin Milton Location: 210-5
				
F191286 – Clamp kit, 1/4" single Parkclamp Milton Location: 110-1	F191363 – Clamp kit, 5/8" double Parkclamp Milton Location: 110-5	F191583 – Hose support clamp – 15-16" Milton Location: 202-1	F191591 – Hose support clamp – 3/8" Milton Location: 202-2	F191592 – Hose support clamp – 1/2" Milton Location: 202-3
				
F191603 – Clamp Rubber G10-Tube OD 5/8" Milton Location: 201-1	F191604 – Clamp Rubber G12-Tube OD 3/4" Milton Location: 201-1	F191612 – Clamp Rubber G4-Tube OD 1/4" Milton Location: 201-2	F191613 – Clamp Rubber G5-Tube OD 5/16" Milton Location: 201-2	F191614 – Clamp Rubber G6-Tube OD 3/8" Milton Location: 201-2
				
F191615 – Clamp Rubber G8-Tube-OD 1/2" Milton Location: 201-2	F191618 – Tyraps, X-Large, 24.3" Milton Location: A101-2	F195645 – Kit, Single Weld-on clamp, 12mm Milton Location: 110-2	F196603 – Ring, 14-16AWG, 3/8 stud Milton Location: 206-2	

**CST Item List
Hardware & Brackets**

				
F101272 – Screw Hex head screw, M6x1x30 Milton Location: 502-2	F102174 – Mounting Plate, 5cm Milton Location: CAGE 18	F104509 – Screw, 5mm Milton Location: 203-2	F110296 – Screw, Hexagon-Screw, 6x20 Milton Location: 502-2	F110297 – Washer-locks, 6mm Milton Location: 505-2
				
F112232 – Bolt, 10 x 20 zinc-plated Milton Location: 102-2	F116961 – Kit Bracket, 8kg reservoir Milton Location: 608-2	F174773 – Nut, 5/16-18 Nylock, SS Milton Location: 101-3	F174774 – Flat washer, 5/16, SS Milton Location: KBAN	F176032 – Bolt, 5/16-18 x 1, SS Milton Location: 102-4
				
F176038 – Nut, 3/8-16 Nylock, SS Milton Location: 101-3	F176044 – Washer, 3/8, Flat, SS Milton Location: 101-3	F176610 – Kit, Support Bracket, 8kg Elec. Milton Location: 605-1	F190241 – Bracket Angle; 3/4 & 3/8 holes Milton Location: 604-3	F190242 – Bracket Angle; 3/8 holes both s Milton Location: 604-3
				
F190244 – Bracket, 5cm offset, long Milton Location: CAGE 19	F190940 – Plate, spacer, pump mounting bracket Milton Location: 405-5	F190962 – Protection Ring, 1" Milton Location: 604-3	F190963 – Protection Ring, 2" Milton Location: 604-3	F191514 – Washer, 1/2", Flat washer plated Milton Location: 101-5

				
F191531 - Nut 5/16 - 18SS Milton Location: KBAN	F191532 - Nut, 3/8-16 Hex Nuts, SS Milton Location: 101-2	F191535 - Washer, 1/2", flat washer, SS Milton Location: 102-5	F191538 - Lockwasher, 5/16, SS Milton Location: KBAN	F191540 - Bolt, 5/16 - 18 x 2 SS Milton Location: 102-4
				
F191544 - Bolt, 1/4-20 x 1", fully- threaded Milton Location: 101-1	F191546 - Bolt, 3/8-16 x 1 Hex head, SS Milton Location: 101-2	F191553 - Bolt 2 1/4" x 1/4", SS Milton Location: 101-1	F193839 - Set screw, 3/8-16UNC x 1 Milton Location: 102-3	F193851 - Clamp, 5.75", Axle Manifold Milton Location: CAGE 23
				
F195435 - Kit, 7 pc., bolts and nuts Milton Location: KBAN	F195786 - Bolt, 2" x 1/4", SS Milton Location: 101-1	F176000 - Clamp, 5" Axle Manifold Milton Location: CAGE 22		