

Misc Character DEG.



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GoldAcres Parts

For fast, efficient same day despatch of GoldAcres parts, please phone, fax or mail order to the above numbers. When placing your parts order, please provide the following information:

- Part Number
- Part Description
- Quantity Required
- Preferred Despatch Method.

We can despatch parts by post, road or airbag. To ensure same day service, please ensure parts are ordered as early in the day as possible.

If returning parts for repair to GoldAcres, please clean thoroughly all parts before sending them. GoldAcres cannot expose technicians to the various pesticides that are in use.

CATALOGUE ERRORS AND CHANGES:

Product specifications presented in this catalogue are believed to be accurate at the time of publication. Goldacres Trading Pty Ltd does, however, reserve the right to over-ride information deemed to be in error.

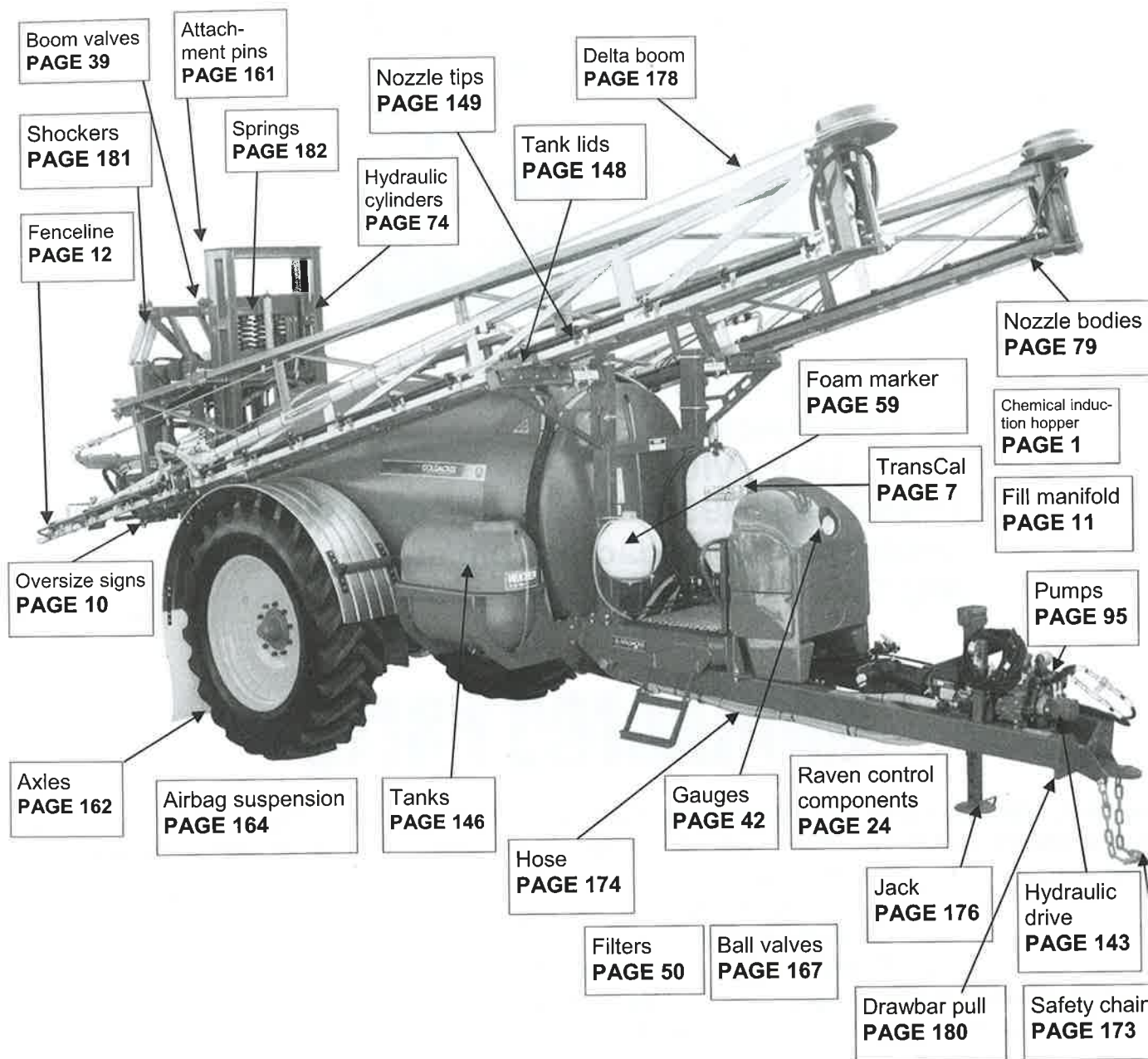


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MISCELLANEOUS

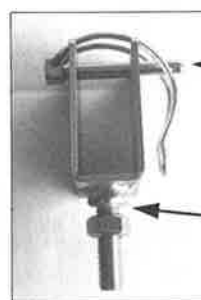
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CHEMICAL INDUCTION HOPPER

- ~ Hopper construction is from moulded polyethylene and is specially designed with smooth rounded surfaces for easy, thorough chemical cleaning.
- ~ Hopper with a large opening allows quick and easy transfer of chemicals with minimum fuss.
- ~ Pressure supplied by the sprayer or fire pump produces a powerful venturi suction action under the hopper.
- ~ Both granular and liquid chemicals can be mixed with water in the hopper and a degree of mixing results as the chemical is transferred into the spray tank.
- ~ Hopper is graduated for measuring liquid chemicals.
- ~ The chemicals are transferred directly from the hopper into the centre of the spray tank. This eliminates chemical attack resulting from high concentrations of chemical coming into contact with spray components.
- ~ Drum rinsing nozzle facilitates easy and thorough drum rinsing.
- ~ The induction hopper can be retrofitted to almost any sprayer.



Hopper Locking pin
S12797

Hopper Lock
HOPLOCK



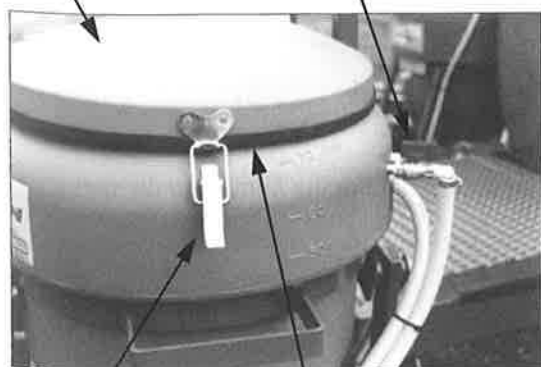
Hopper adjustment arm
HOPADJARM

Nylon insert
RIR-5980

Hopper frame
height adjustable
CHEMIND-FHA

Hopper Lid
E1180-GO5

1/4" FF Ball Valve
BV-8-FF-B



Hopper Lid Latch
30-502

Seal
550140030

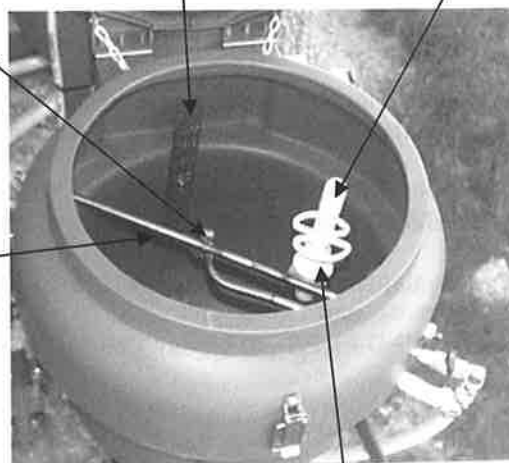
Hinge (not shown)
HING3

Hopper Rinsing Nozzle
HOPRINSE

Hopper Calibrator
F70116A

Drum Rinsing
Nozzle **510100**

Stainless steel
hopper bar
CHEMFB



Mesh cover over jet (hidden)
23141483

Push Down Valve
510110

CHEMICAL INDUCTION HOPPER

70 Lt height adjustable
chemical induction hopper
CHEMIND



Plastic weld in fitting for hopper thread repair
P420600

Bottom hopper tee piece
L056A

40 Lt height adjustable
chemical induction hopper
CHEMIND-40



1 1/2" ball valve
UV150FP

Brass ball valve
BV-20-MFB

Bottom hopper tee piece
L056A

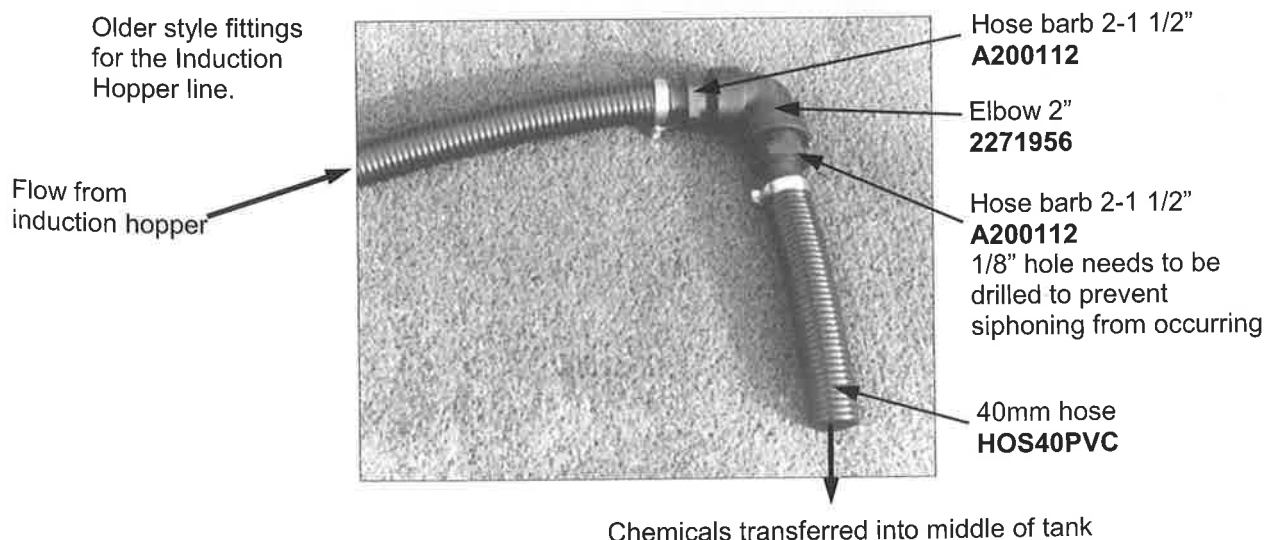
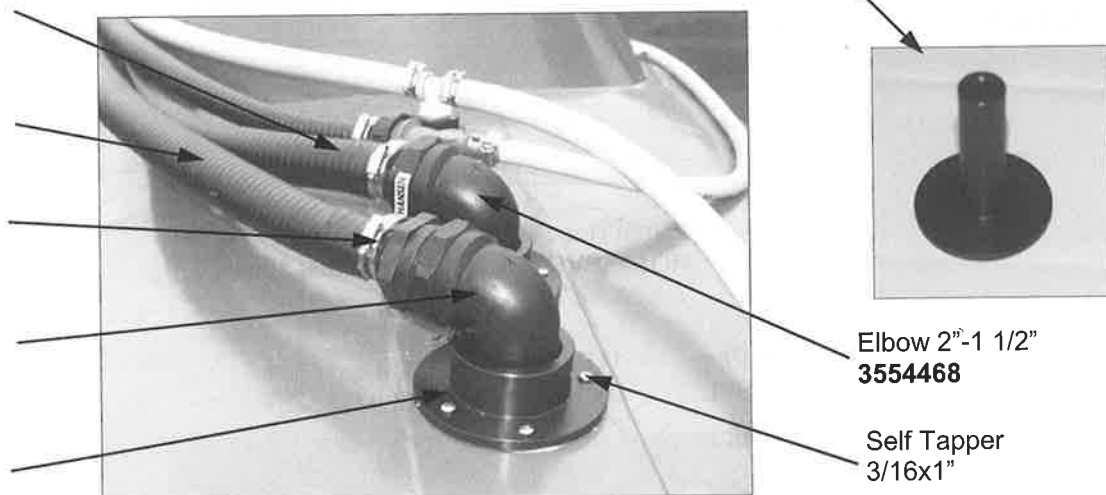
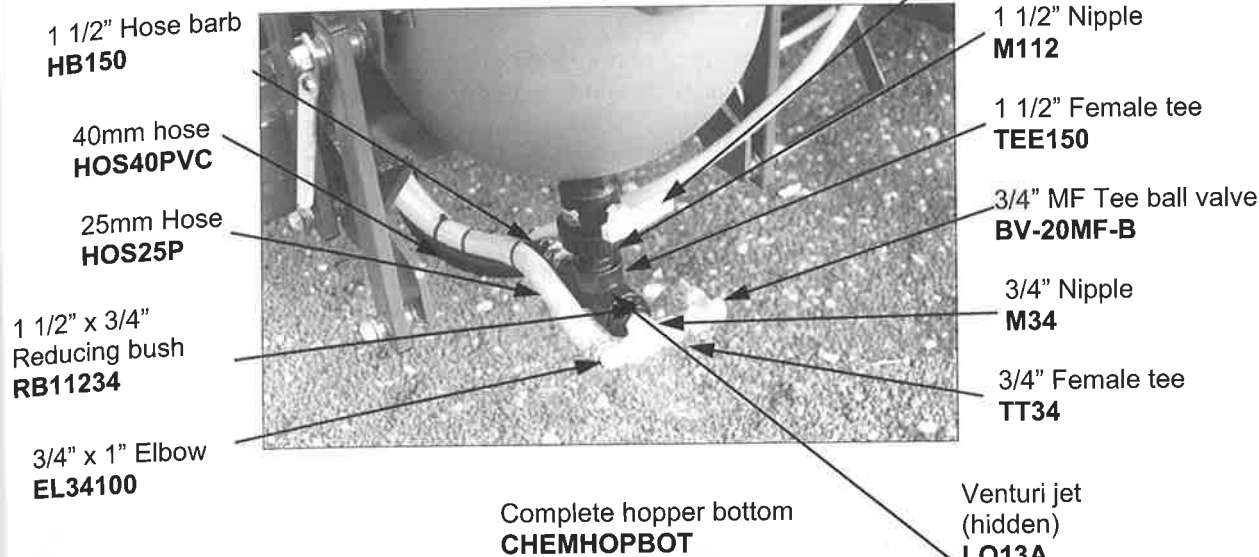
1" Elbow
EL100

1" street elbow
SE100

Venturi jet
(hidden)
L057A

1. Hopper with height-adjustable mounting bracket. Can be fitted to most sprayers
CHEMIND (70 Litres) **CHEMIND-40** (40 Litres)
2. Hopper with fixed mounting bracket. Often used with 3PL and tray mount sprayers.
CHEMIND-FXD (70 Litres) **CHEMIND-FXD-40** (40 Litres)
3. Free-standing hopper on wheels. Suitable for use where sprayer is usually filled at the same site (ie. orchards, vineyards, etc).
CHEMIND-FREE (70 Litres) **CHEMIND-FREE-40** (40 Litres)

Note this is the pre 2002 hopper bottom set-up. Refer Previous page for current assembly.



CHEMICAL VENTURI PROBE

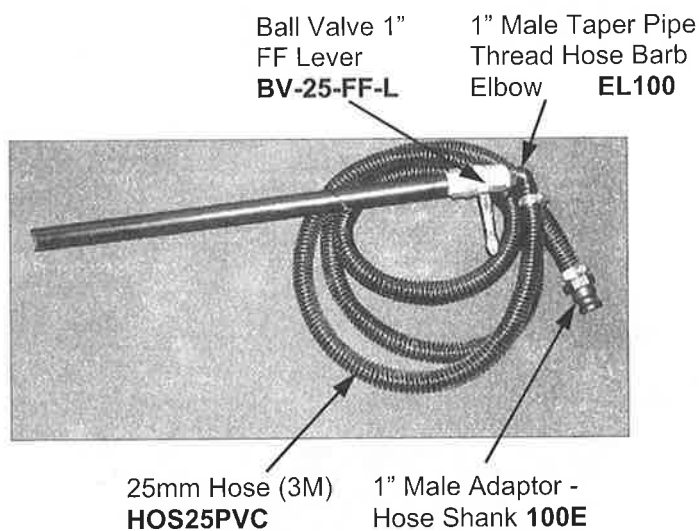
The chemical venturi probe provides a simple and safe method of transferring liquid chemical from the chemical container into the sprayer tank. The probe is used in conjunction with the venturi filler which, via a venturi action, creates the required suction on the pressure side of the pump.

As a guide-line to chemical venturi probe performance:

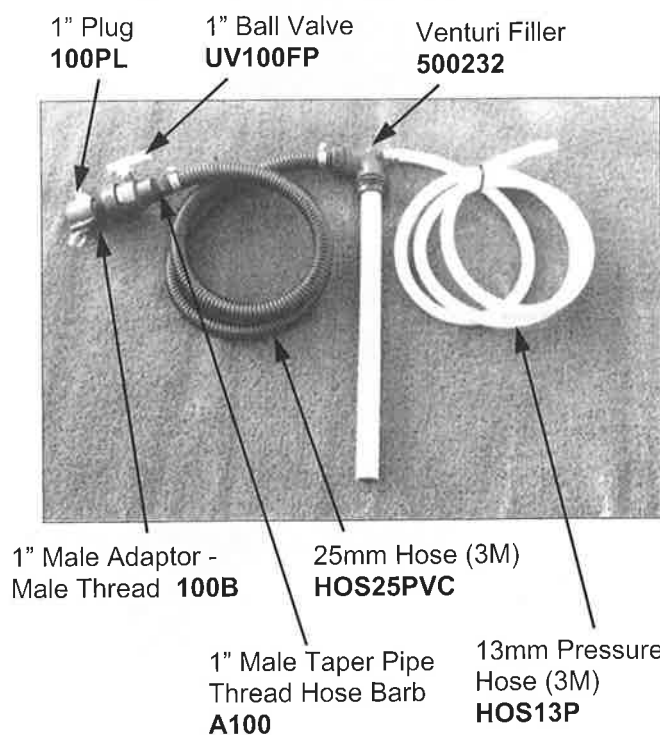
a 121 l/min pump running at 600 kPa will transfer water via the probe at a rate of approximately 40 l/min.

Note: All chemicals should be transferred after between 20% and 50% of the required water quantity has been added to the sprayer tank. This will ensure that agitation takes place when the remaining water is added.

Chemical Suction Probe
CHEMSUCP

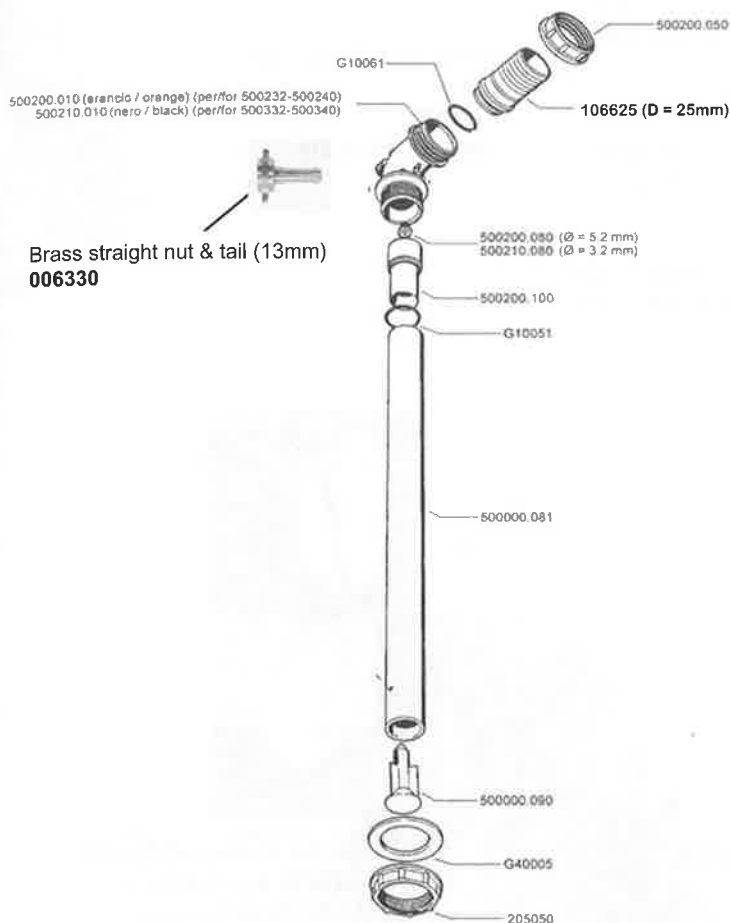


Chemical Venturi Probe
CHEMVENP





Venturi mounted in top of tank. (Need to drill 1 1/4" hole in top of tank).



Venturi filler
500232

VENTURI FILLING SYSTEM

The venturi filling system provides a simple method for filling the tank from a remote water supply. The venturi filler provides the required suction on the pressure side of the pump to fill the tank.

System includes:

- Venturi filler, 6M x 38mm vent hose, 3M x 13mm pressure hose.

Floating filter can also be supplied, see page 52.

Venturi filling system **VENFILL**

TRANS-CAL VOLUMETRIC CHEMICAL TRANSFER SYSTEM

The Trans-Cal volumetric chemical transfer system has been designed to provide for the transfer of liquid chemical from any container (including the Envirodrum closed transfer system) to the sprayer tank. By utilizing a venturi system fitted to the sprayer, the chemical is transferred from the chemical container into the Trans-Cal tank where the required volume is measured. Once this volume has been filled into the Trans-Cal tank, it is then transferred to the main spray tank by simply turning a valve. Thus there is no raw chemical coming into contact with any pump or complex componentry.

The Trans-Cal can transfer chemically relatively quickly and a rotating nozzle fitted inside the Trans-Cal tank provides for thorough and easy rinsing, ensuring the system is ready for the next fill

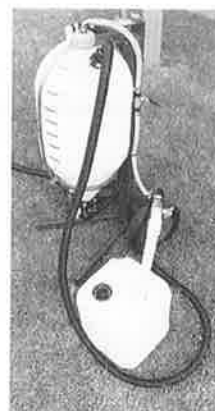
The Trans-Cal system can be mounted either on the sprayer tank or free-standing at the filling site. It can be easily retro-fitted to most sprayers

Specially designed calibrated tank for accurate measuring of chemicals

3-Way Poly Ball Valve
V100BL
Used to direct the venturi suction



The Trans-Cal can be used in conjunction with the Envirodrum so as to transfer chemical without the need for a separate pump and flowmeter.



The Trans-Cal is also designed to be used with the chemical venturi probe fitted on many of the GoldAcres sprayers.

A. FOR FITTING TO A CURRENT MODEL GOLDACRES SPRAYER:

1. Trans-Cal Kit **TRANSCAL**
2. Trans-Cal Kit & Envirodrum Fittings (MicroMatic) **TRANSCAL-E**

B. FOR RETROFITTING TO AN EXISTING SPRAYER:

1. Trans-Cal Kit, Chemical Probe & Venturi Filler **TRANSCAL-CPVF**
2. Trans-Cal Kit, Chemical Probe, Venturi Filler & Envirodrum Fittings (MicroMatic) **TRANSCAL-CPVF-E**

C. FREE STANDING:

1. Trans-Cal Kit, Chemical Probe, Venturi Filler & Wheeled Stand **TRANSCAL-FS-CPVF**
2. Trans-Cal Kit, Chemical Probe, Venturi Filler, Wheeled Stand & Envirodrum Fittings **TRANSCAL-FS-CPVF-E**

**K744-094 Coupler**

Enables connection into the closed system chemical containers

K2F3-003

O Ring to suit coupler

K2F3-009

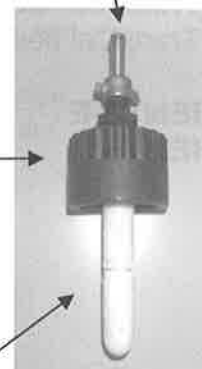
Seal to suit coupler

K2DV1-002 Rinsing Socket

Provides for water rinsing of the coupler and chemical lines

Trans-Cal tank lid
L055A

COMPLETE
TRANS-CAL
RINSE ASSY
(lid + nozzle)
L055AC

**510100****Tank Rinsing Nozzle**

The Trans-Cal tank can be easily and thoroughly rinsed with fresh water and thus be ready for the next chemical

Cam-loc fitting
100C

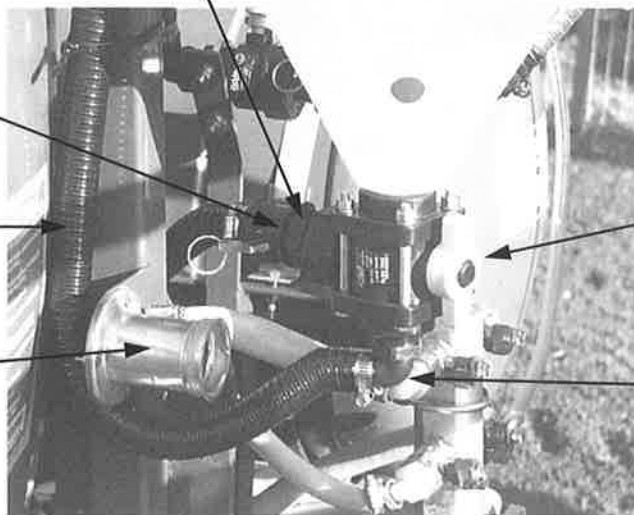
1" Hose
HOS25PVC

Rinsing Socket
K2DV1-002

Cam-loc fitting
100F

3 Way 1" Ball valve
V100BL

1" Elbow
EL100



CHEMICAL TRANSFER STATION

Hopper and TransCal mounted in aluminium cabinet.

- ~ Mixes. ~ Transfers. ~ Measures. ~ Rinses
- ~ Water transfer and other functions done simultaneously.
- ~ TransCal needs 90psi pump.

CHEMTS-E Chemical transfer station (including Envirodrum fittings)
CHEMTS Chemical transfer station



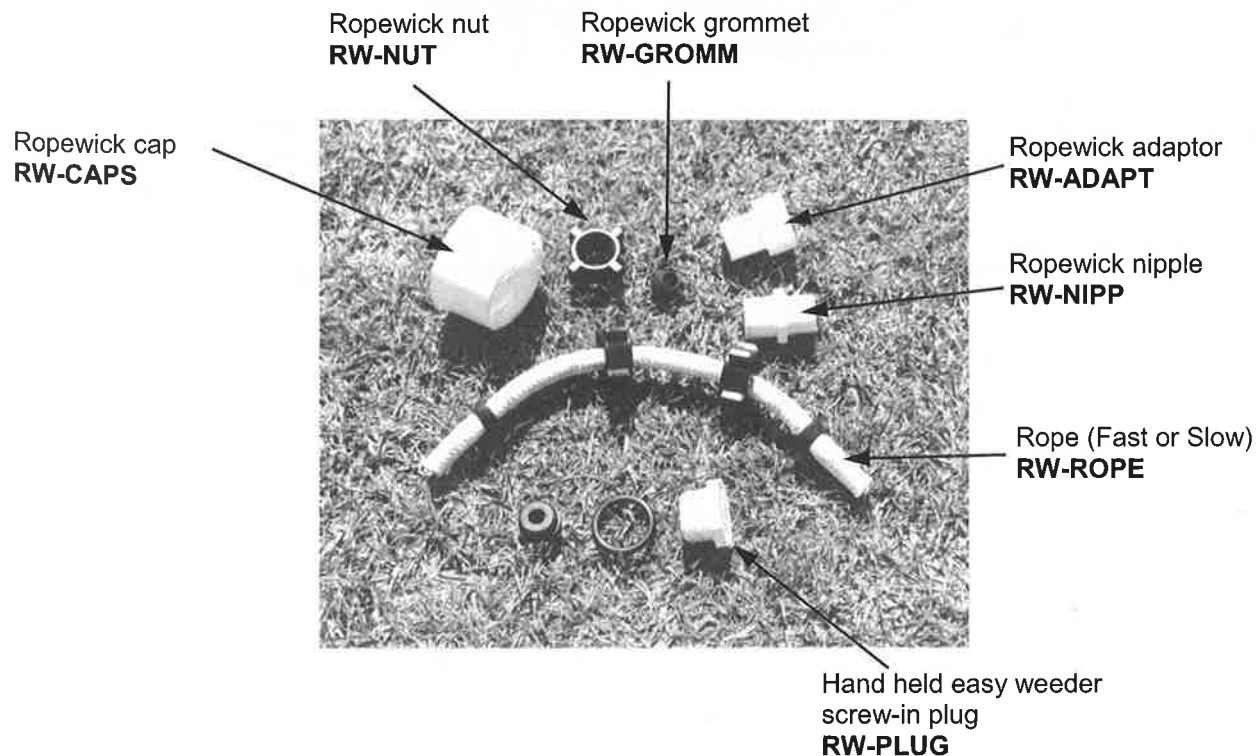
GOLDACRES ROPEWICK SECTIONS



- Pipe complete with ropes, grommets, nipples, nuts, end caps and inlet.
- Reinforced 50mm PVC pipe.
- Sections made to order per metre.

RW-PIPE

GOLDACRES ROPEWICK PARTS



GOLDACRES OVERSIZE SIGNS

Goldsigns are designed for attaching to any implement being towed on public roads, or to the towing vehicle. They are manufactured from durable materials for long life and maximum clarity. The 1700 mm wide and 560 mm high with the word "OVERSIZE" on it.

This sign is being fitted to the rear of current model Prairie sprayers, and **does not feature tail lighting**.

Goldacres Oversize sign **GSIGNFRONT**

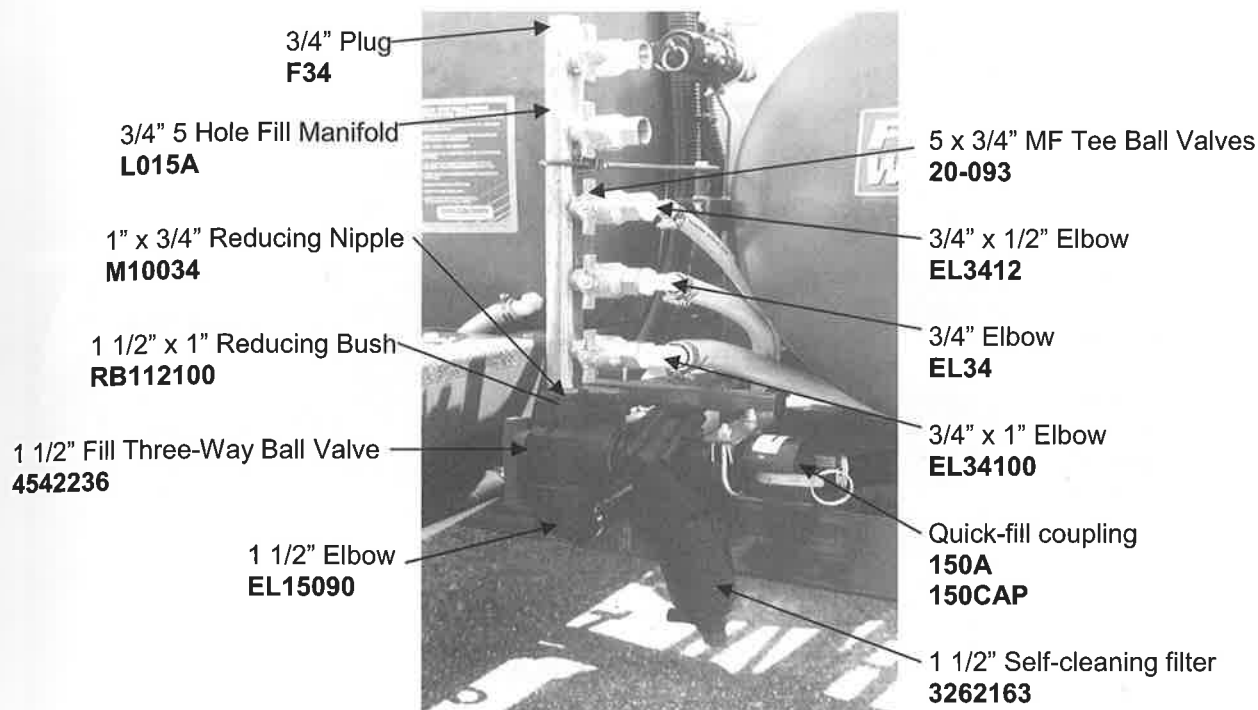


Oversize sign fitted without tail lights.

CHECK YOUR LOCAL AREA FOR REGULATIONS THAT MAY APPLY TO YOU WHEN TOWING. THERE MAY BE REQUIREMENTS SUCH AS MAXIMUM WIDTHS AND LENGTHS, ROTATING LIGHTS, RESTRICTED ROADWAYS AND OTHER LIMITATIONS. IT IS YOUR RESPONSIBILITY TO ENSURE THAT YOU CONFORM WITH ALL REGULATIONS.

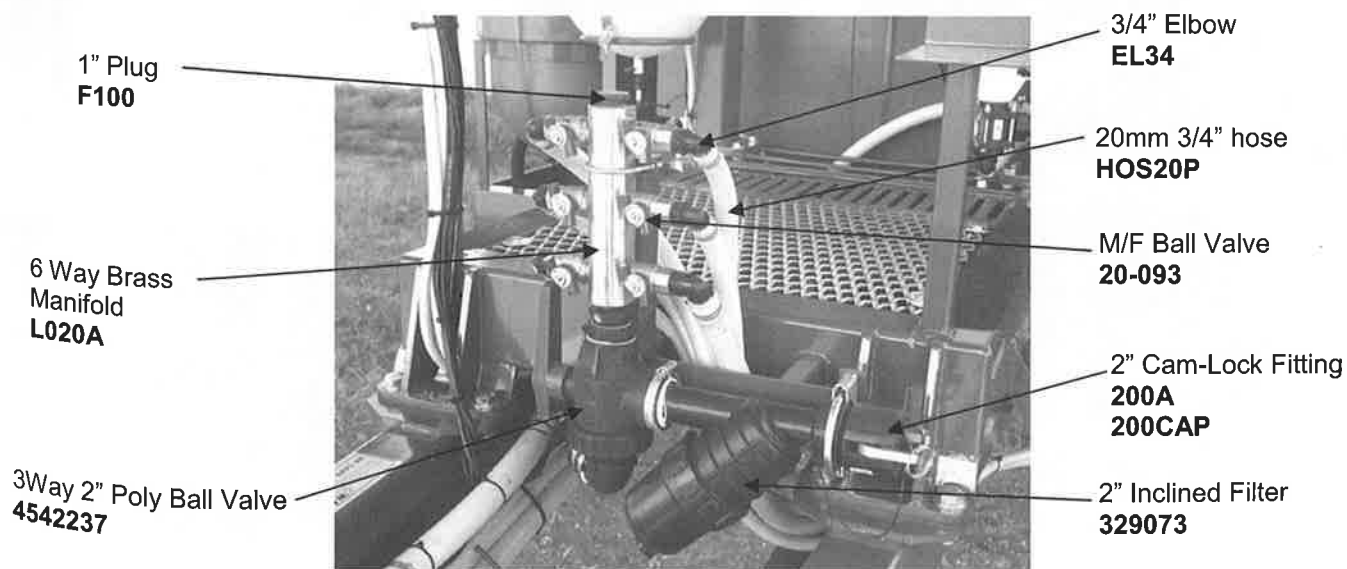
FILL MANIFOLDS

The Fill System incorporates the fill manifold, the self-cleaning filter, the fill three-way ball valve and the quick fill coupling. This system provides an easy method of utilising flow from the rinse water pumping supply to fill the various tanks on the sprayer and to rinse chemical drums via the induction hopper and the hopper itself. The maximum filling pressure provided by the rinse water pumping system should not exceed 100 psi.



Fill Manifold Complete 1 1/2"

FILLMAN

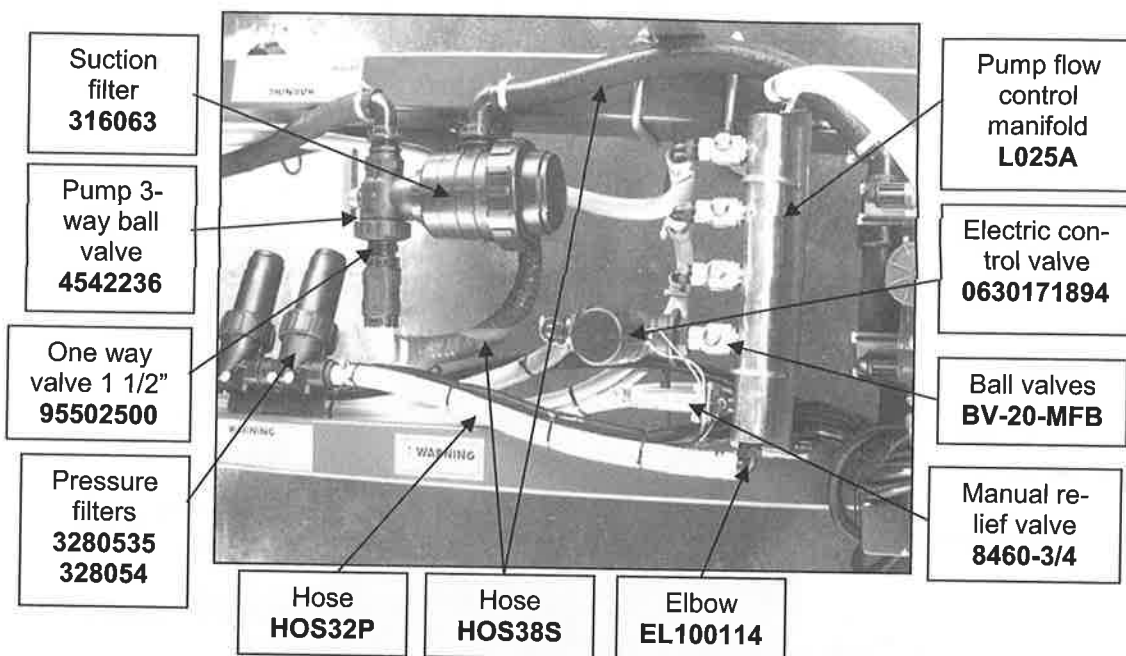


Fill Manifold Complete 2"

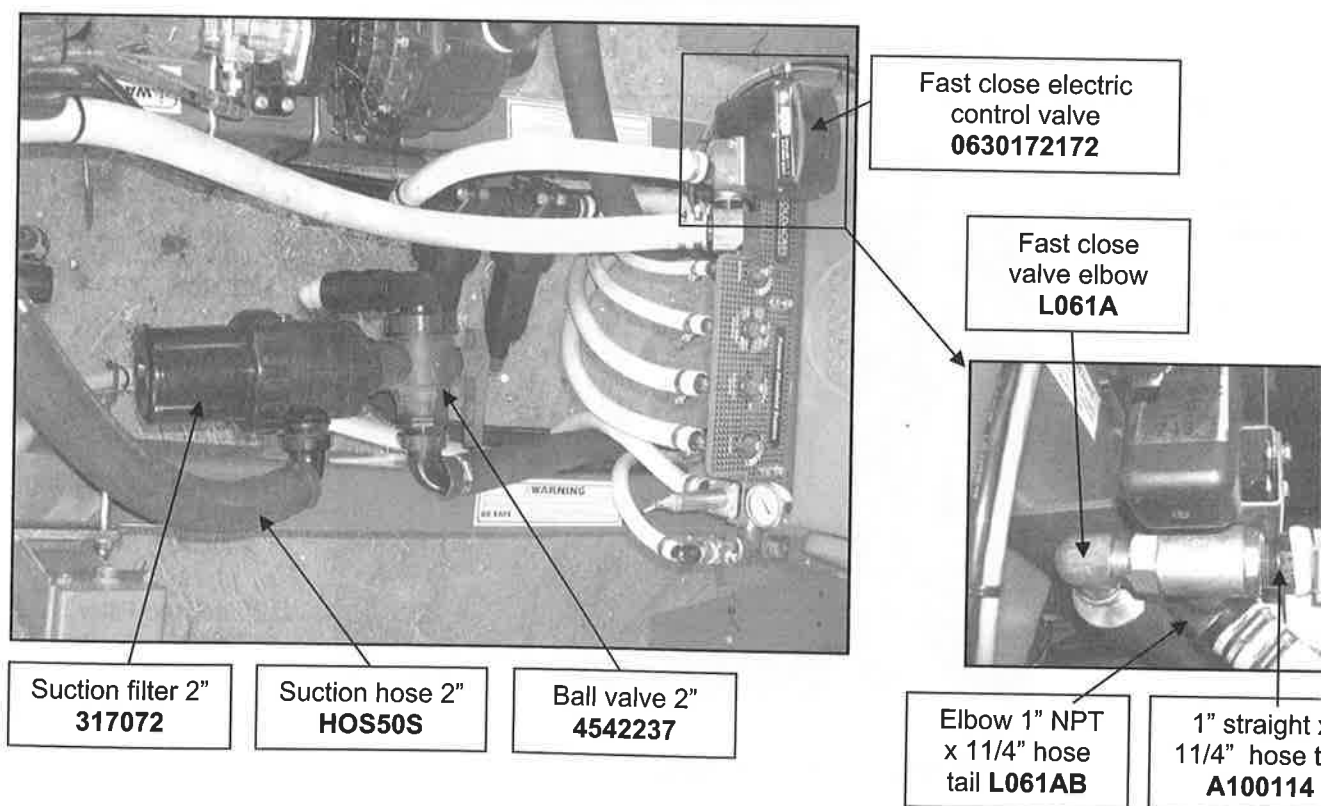
FILLMAN2

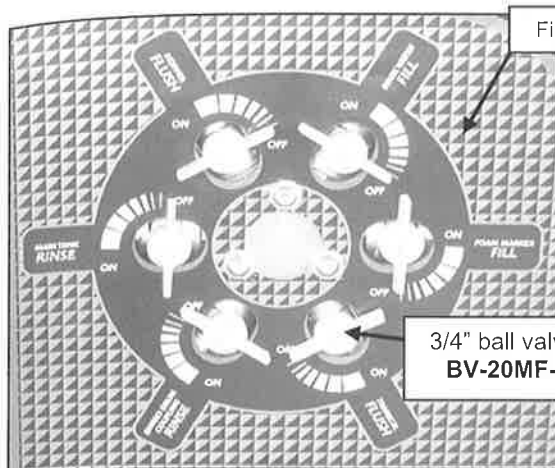
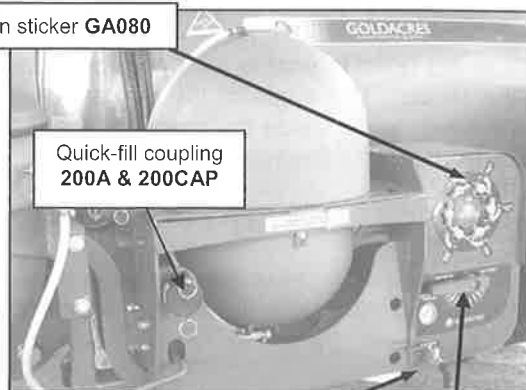
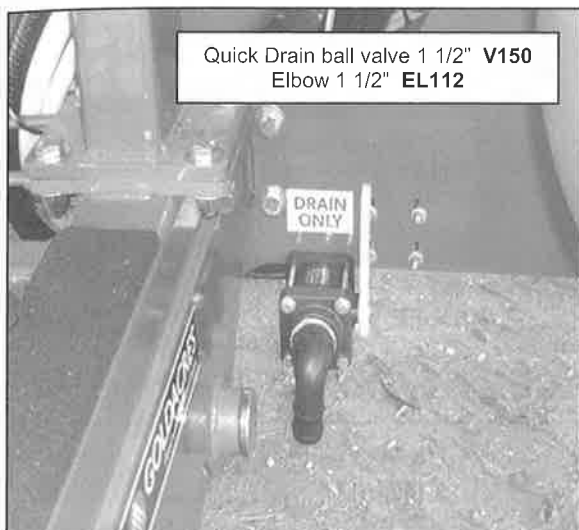
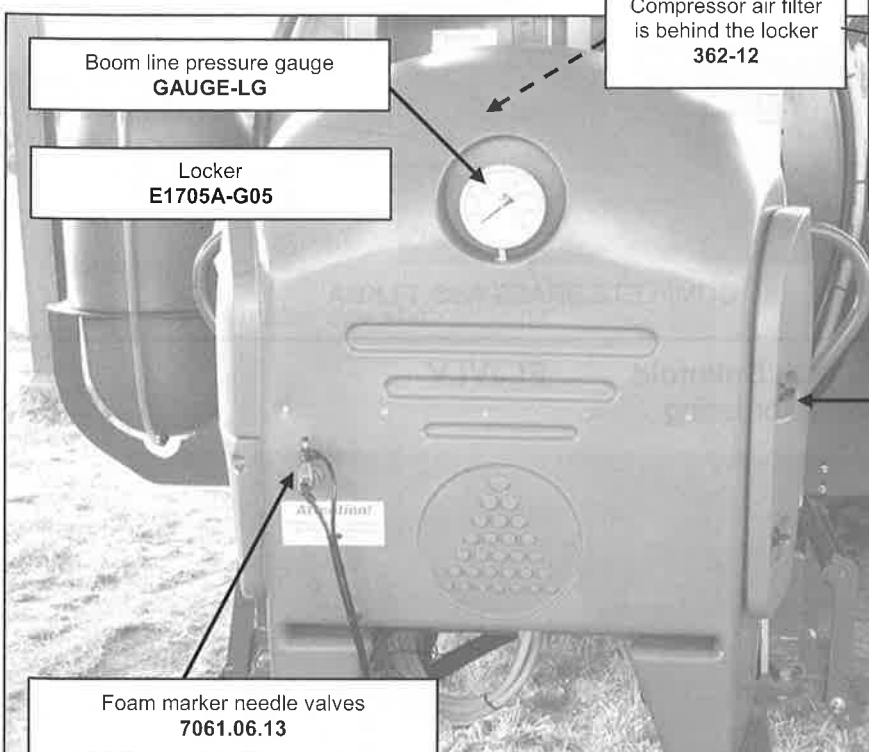
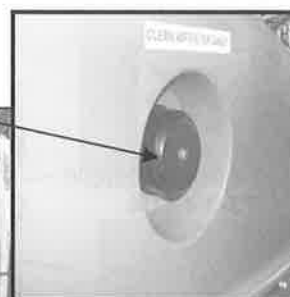
PRAIRIE PLUMBING SYSTEM

BASE MODEL:

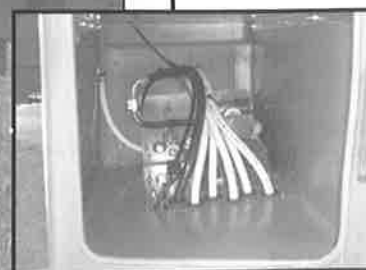


2TS DUAL BOOM MODEL:



Fill station sticker **GA080**3/4" ball valves
BV-20MF-BQuick-fill coupling
200A & 200CAPSafety rinse water
valve **BV-12-MF-L**Fill 3-Way ball
Valve
45422357Quick Drain ball valve 1 1/2" **V150**
Elbow 1 1/2" **EL112**Fill Filter
8118013Boom line pressure gauge
GAUGE-LGLocker
E1705A-G05Foam marker needle valves
7061.06.13Compressor air filter
is behind the locker
362-12

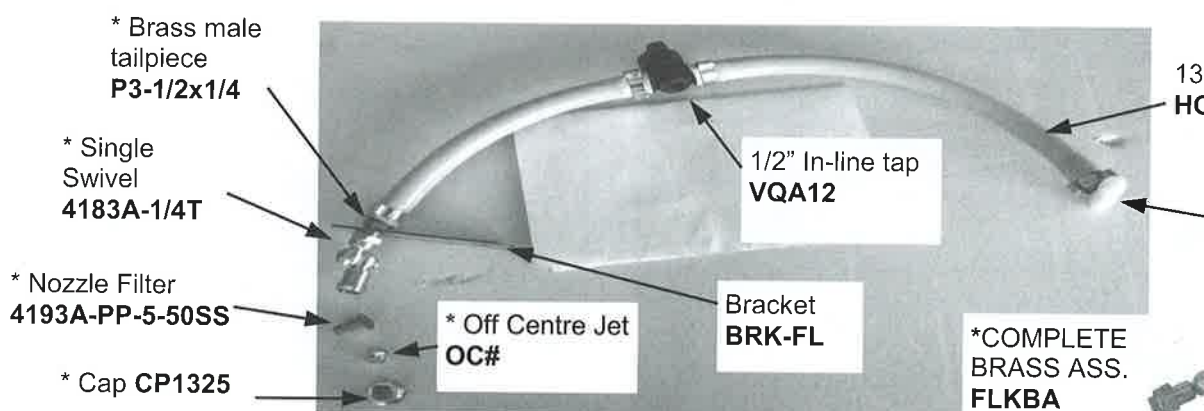
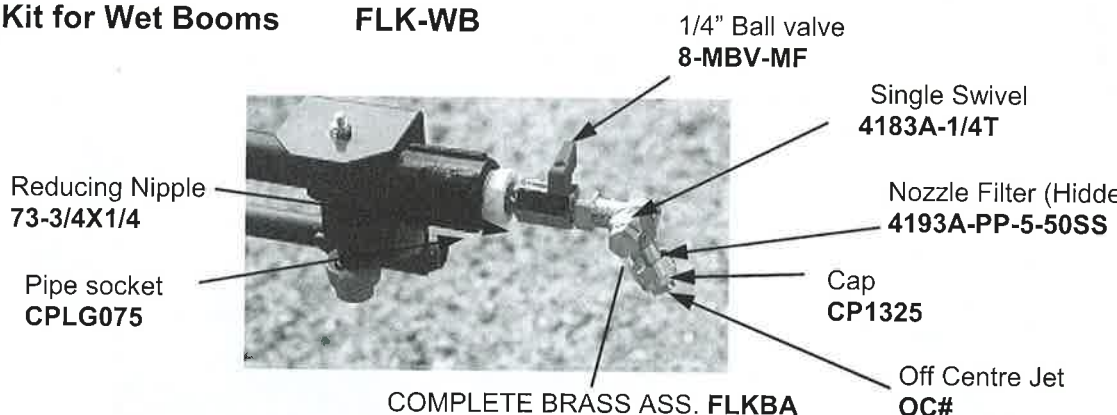
Inside view



FENCELINE KITS

The fenceline jet is designed to enable the operator to spray right up to the boundary fence without having to get really close to the fence. The angle of the off-centre jet can be altered to suit particular spray applications. This should enable the boom to be inside the fence by about 1 metre and still be able to spray to the fence. This prevents operators from putting the boom into the fence, especially important when the boom is relatively new and the operator is not familiar with the width of the boom. The fenceline jet must be turned off after the end of the field and this can be done either manually via a tap or remotely via an optional electric solenoid (controlled in the cab).

Note: The off-centre spray tips are only available in brass and hence have a relatively low wearing capacity. It would be advisable to periodically check the nozzle capacity to ensure that nozzle wear is not affecting the application rate.

Fence Line Kit for Dry Booms**FLK****Fence Line Kit for Wet Booms****FLK-WB****Fence Line Kit for Wet Booms with Solenoid****FLJVLV**

Please specify length of boom when ordering.



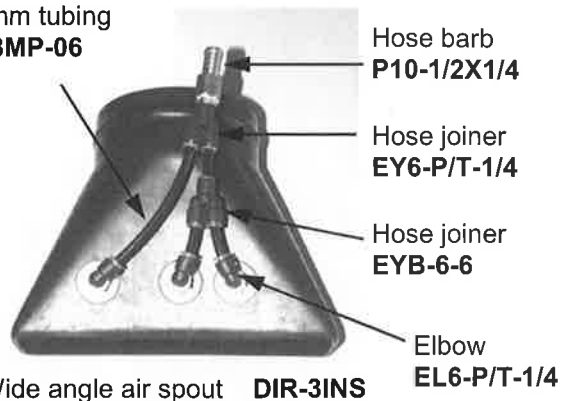
PARTS FOR GOLDACRES DIRECTOR SPRAYER



Round bare air spout (with nozzle mount & bolts)
DIR-SPOUT
Round spout with bare 3-way nozzle body
DIR-SPOUT3BB-BARE
Round spout with 3-way nozzle body, nozzles & caps
DIR-SPOUT3BB

5" Hose **HOS125**

6mm tubing
E8MP-06



Wide angle air spout **DIR-3INS**

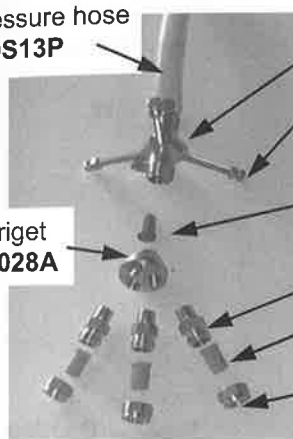
Hose barb
P10-1/2X1/4

Hose joiner
EY6-P/T-1/4

Hose joiner
EYB-6-6

Elbow
EL6-P/T-1/4

Pressure hose
HOS13P



Brass nozzle mount **L038A**

Stainless steel bolts
6mm x 60mm **M6X60SS**

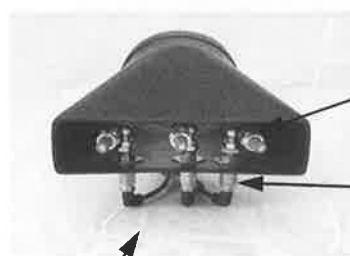
Check strainer
4193A-PP-5-50SS

Brass Adapter **CP1322**

Nozzle **TXVK#**

Brass cap **CP1325**

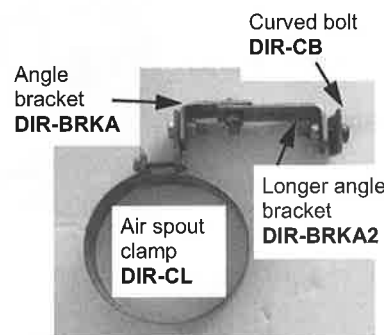
Triget
L028A



Single swivel
4183A-1/4T

Brass socket

Hex nipple
27-1/4



Angle bracket
DIR-BRKA

Curved bolt
DIR-CB

Longer angle bracket
DIR-BRKA2

Air spout clamp
DIR-CL



3-WAY BRASS NOZZLE BODY

Provides for greater spray coverage and higher application rates with relatively smaller droplets.
DIR-3BB

Please specify TX nozzle size when ordering



3-WAY BRASS NOZZLE BODY (BARE)
DIR-3BB-BARE

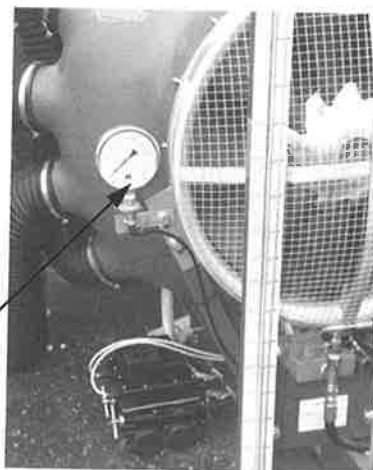


DIR-5-NEM

- Director five nozzle encircling manifold.
- Stainless steel.
- Includes mounting bracket.
- Includes nozzle bodies, caps and five x CP3942 blanks.

PARTS FOR GOLDACRES DIRECTOR SPRAYER

Large face hydraulic pressure gauge
GAUGE-LG



Small face hydraulic pressure gauge
GAUGE-SM-DIR



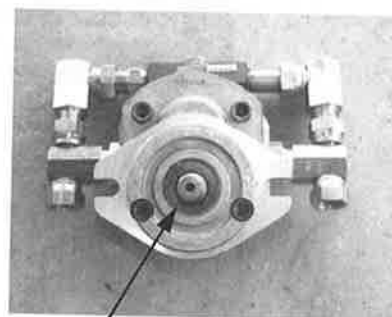
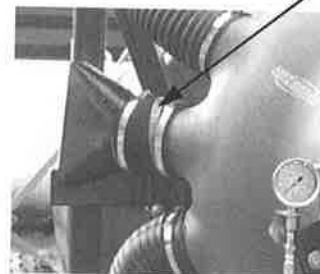
Handle for hydraulic flow diverter valve
660301002

Hydraulic flow diverter valve
RD19508 (suit single row)
RD19516 (suit double row)



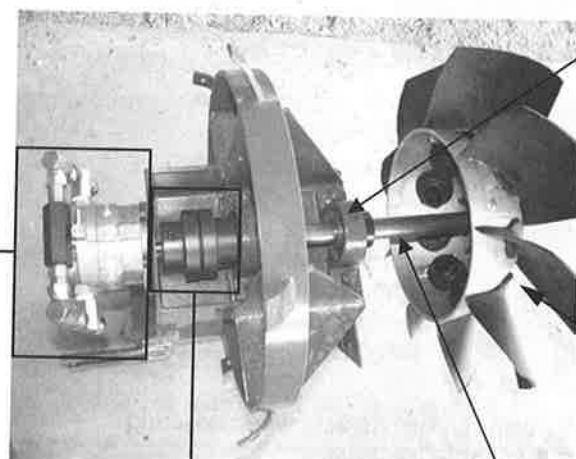
Standard water hose (127mm)

HOS127W



Hydraulic motor shaft seal
5A0081

Director brass bush (suit turn-table hitch)
DIR-BB6

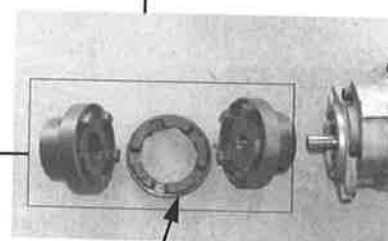


Bearing
NA207
Housing
P207C

Director
DIR-FA

Shaft
DIR-125-SHAFT

Complete coupler, including rubber.
PC97



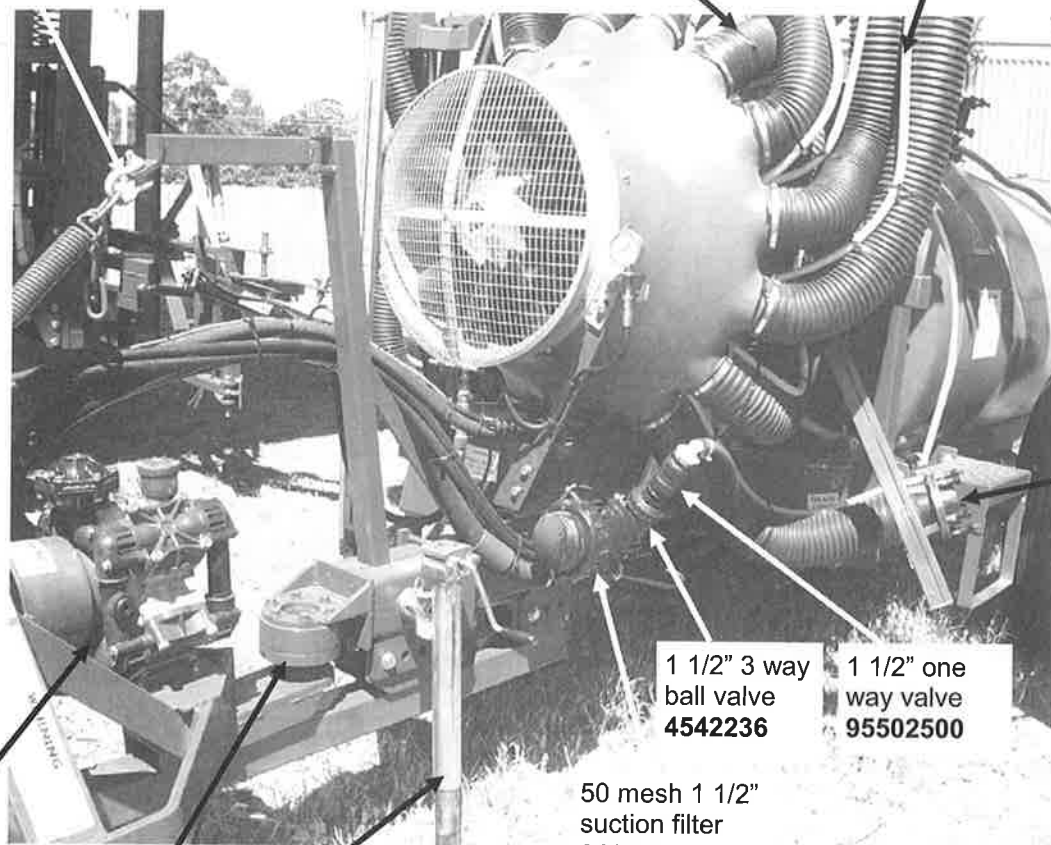
Coupler wear rubber
PC97RUB

PARTS FOR GOLDACRES DIRECTOR SPRAYER

13mm gal alloy bow shackle
130150516

125mm hose
HOS125

13mm pressure hose
HOS13P



Encircling
manifold
DIR-5NEM

1 1/2" 3 way
ball valve
4542236

1 1/2" one
way valve
95502500

50 mesh 1 1/2"
suction filter
316063

160 Lt/min
Udor pump
RO160

Ball & coupling
B3

Jack
LT3153

Fan
DIR-FANS

Single row has RO121 pump, double row has RO160, twin fan has RO250.
All have electric 2 way valves **AA460**.

2000 Litres and smaller with 11.5 - 15.3x9 wheels have Fad 50 axles.

3000 Litres with 11.5 - 15.3x9 wheels have Fad 60 axles.

Any Director with 12.00x24 wheels have Fad 60 axles.

Pre 2000 Director (double row) have 2 x 2.5x16 female clevis standard cylinders.

2002 double row use 1 x 2.5x30 standard cylinder.

Pulley to suit cable on double row **L032A**. Bearing to suit **6004**.

Roller for top of double row **L040A**. Bearing to suit **6004**.

Pulley **L032A**.

Shafts to suit pulley:

Shaft 116mm long suit 42mm bearing **L043A**.

Shaft 137mm long suit 42mm bearing **L044A**.

Shaft 35mm long suit 42mm bearing **L045A**.

Handy
Hints



PARTS FOR GOLDACRES ORCHARD SPRAYER

D460076 MTPXC Gearbox for 32"

D460077 MTPXC Gearbox for 36"

D574141 36" VVM Fan

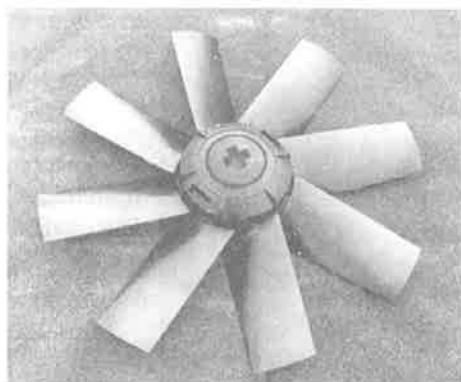
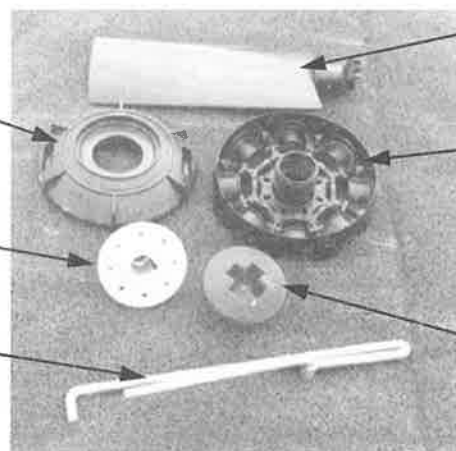
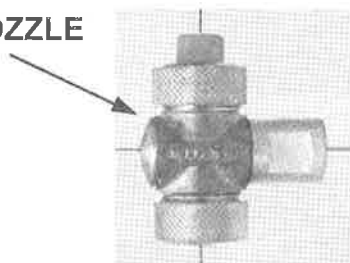
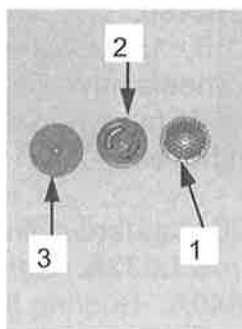
D274080 36" Fan blades

TOP Top air directors with nozzles

Also available: 32" Turbofan super, 36" Turbofan super, Standard flip nozzles, Flip/Click nozzles.

Note: Gears may be angled.

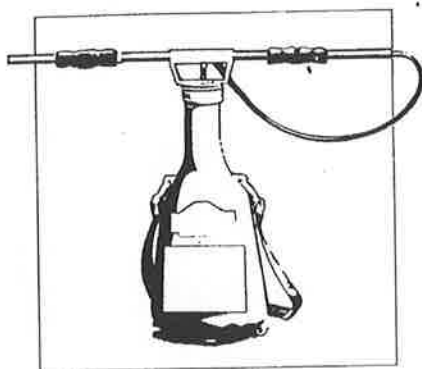
FAN

Adjusting nut
D142009Flange
D301129Adjustor arm
D10101036" Fan blades
D274080Flange Hub
D274047Adjuster Hub
D274046Locking nut
D745042FLIP NOZZLE
D822150FLIP NOZZLE
D3105

POS. NO.	PART NO.	DESCRIPTION
1	005802 005803	Jet screen Seal
2	005910 005912 005915 005918	Stainless Steel disk (1mm) Stainless Steel disk (1.2mm) Stainless Steel disk (1.5mm) Stainless Steel disk (1.8mm)
3	005808 005810 005812 005815 005818 005820	Orifice disks (0.8mm) Orifice disks (1mm) Orifice disks (1.2mm) Orifice disks (1.5mm) Orifice disks (1.8mm) Orifice disks (2mm)

BERTANI PRESSURE SPRAYERS

MODELS AVAILABLE:

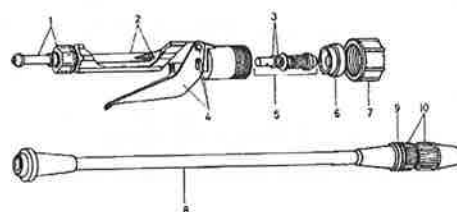


Long neck pressure sprayer of 6 Lt capacity **G6**



Pressure sprayer of 8 Lt capacity **P8**

PART NO	DESCRIPTION
3403	Belt assy
3404	Funnel P8
3405	Valve
3407	OR 154 ring
3406	Plunger tube
3417	Plunger tube assy
3812	Packing
3418	Plunger guide
5264	Spring
3412	Handle assy
3413	Plunger
3416	Outlet tube P8
608	Coupling assy



POS. NO	PART NO	DESCRIPTION
1	609	Coupling assy
2	633	Tube assy
3	612	OR 2015 ring
4	629	Lever assy
5	632	Piston assy
6	617	Stop disc
7	621	Lance clamp coupling
8	620	Extension 40cm
9	415	Gasket
10	127	Adjustable spray nozzle

TECNOMA SPRAYERS

Tecnoma prepressurised sprayers are the perfect gardener's helper. With 8 & 16 litre capacity this versatile lightweight sprayer has a hundred different uses.

T8

T8 Effective capacity: 8Lt

- Total capacity: 11Lt
- Garden treatment
- Vegetable plots
- Ornamental trees, fruit trees, shrubs, hedges. Flower beds & rose bushes.
- Comes with a quality 40cm aluminium lance.



T16

- Total capacity: 16Lt
- Vegetable plots
- Orchards
- Ornamental trees, shrubs, hedges
- Fruit trees

Technical Features

- Large, filter-equipped opening for simple filling, draining and cleansing
- Left/right switchable pump lever ensures a comfort for left and right handers
- Ultra-strong 40cm fibreglass lance
- Supplied with pump handle ready-fitted.



TAS MONITOR

**TAS4G**

Please specify cable length when ordering Tas monitor.

Refer to picture below.

The GoldAcres TAS Monitor gives you speed, area and RPM all in the one neat control box at a budget price.

Simple to install, the kit comes complete with mounting bracket, sensors and cables.

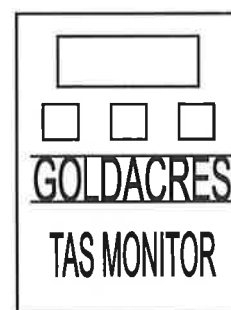
A built-in small Ni Ci battery supplies stand-by power for the monitor's memory.

The TAS Monitor can be adapted to fit any machine.

(Please state TAS1 or TAS2 cable length when ordering.)



Super magnet
MS122



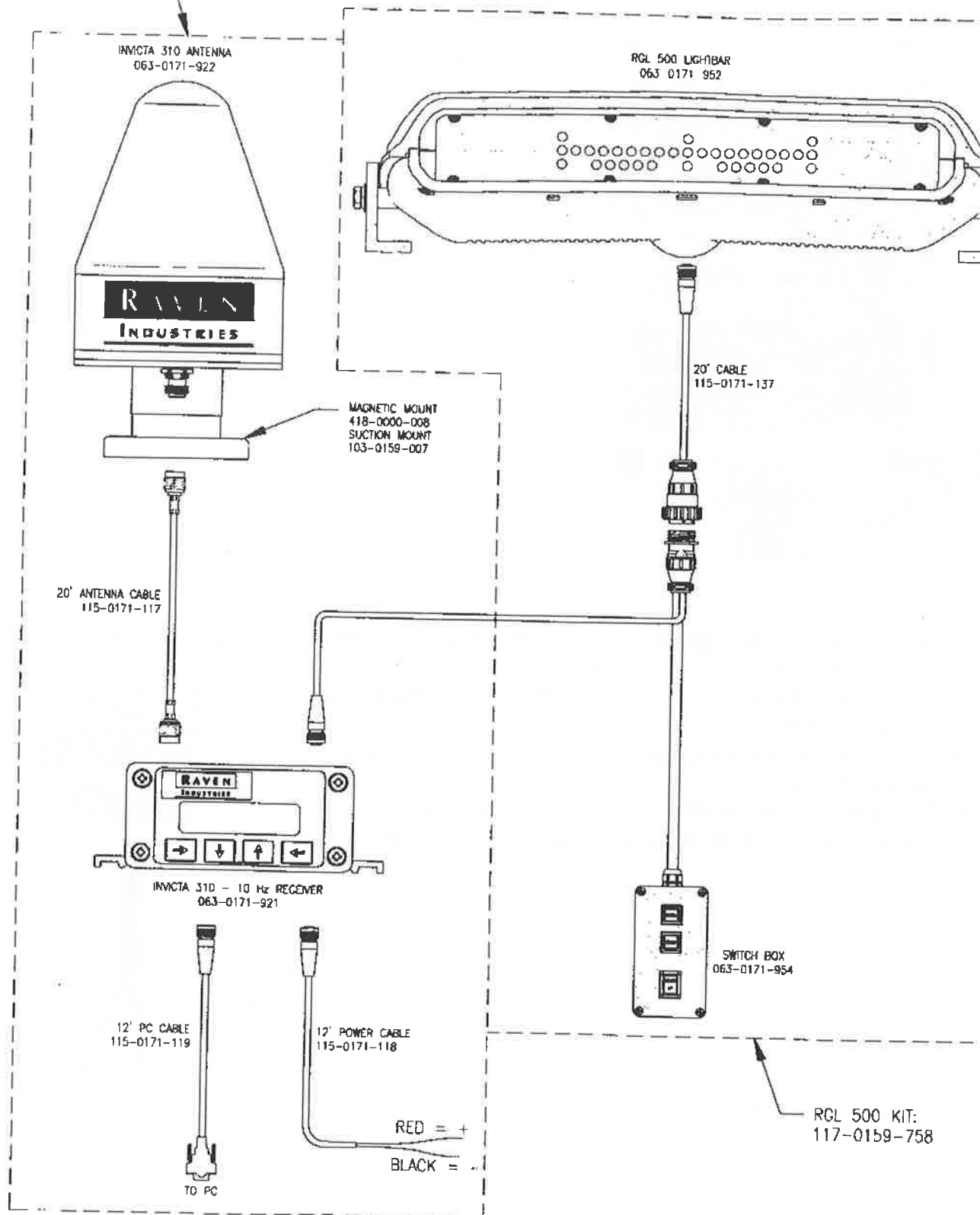
TAS1 1 Mt
TAS2 3 Mt

RPM Cable
TAS1 1.5 Mt
TAS2 2.5 Mt

Speed Cable
TAS1 1.5 Mt
TAS2 7 Mt

RAVEN RGL500 LIGHTBAR & 310 RECEIVER

INVICTA 310 KIT:
117-0159-744



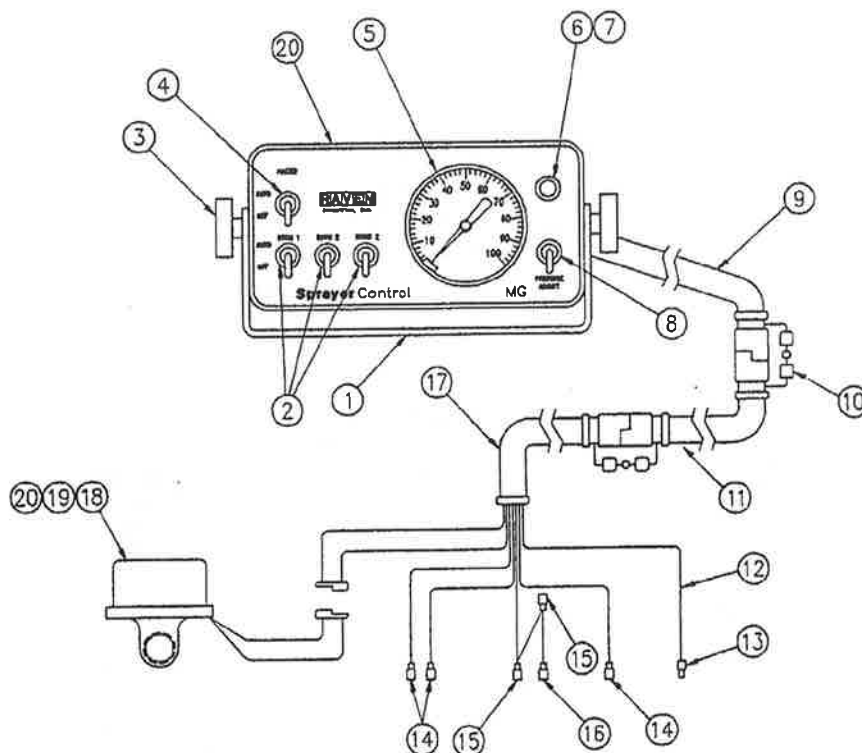
SCS203 MONITOR CONTROLLER CONSOLE



The Raven SCS203 monitors pressure with manual pressure control. Has one wet pressure gauge, and suits three boom sections.

SCS203 Console

0630159203



ITEM	DESCRIPTION	RAVEN PART#
1	Mounting Bracket	107-0159-007
2	Boom Switch	412-2011-038
3	Mounting Knob	309-1000-006
4	Master Switch	412-2011-037
5	English PSI Gauge, Female Fitting, Male Fitting, 195" Tubing	117-0159-006
	Metric PSI/KPA Gauge, Female Fitting, Male Fitting, 195" Tubing	117-0159-021
6	Fuse Holder	510-2001-003
7	Fuse, 15 Amp.	510-1003-001
8	Pressure Switch	412-2011-039
9	Cable Assembly, 8 ft. Enclosure Hook-Up	115-0159-010
10	Union Fitting	333-0001-008
11	12 ft. Ext. Cable Assembly	107-0159-025
12	Tubing	214-0001-001
13	Male Fitting	333-0001-007
14	Insulated Female Terminal	405-2001-018
15	12-14 AWG Female Terminal	405-2001-008
16	16-14 AWG Female Terminal	405-2001-009
17	Cable Ass'y, 6 ft. Solenoid Hook-Up	115-0159-013
	Cable Ass'y, 12 ft. Solenoid Hook-Up	115-0159-015
18	3/4" Valve Assembly	063-0159-001
19	1" Valve Assembly	063-0159-447
20	1 1/2" Valve Assembly	063-0159-448
21	Console	063-0159-203

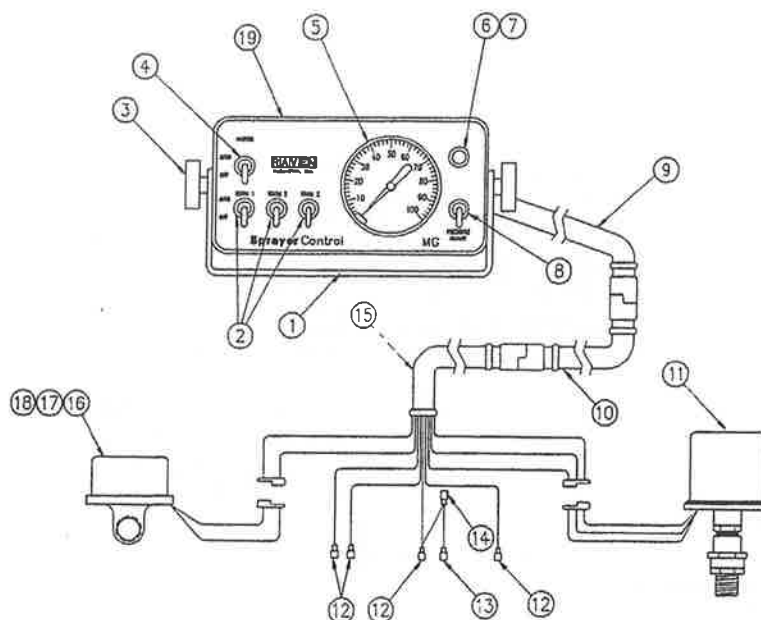
SCS303 MONITOR CONTROLLER CONSOLE



The Raven SCS303 monitors pressure with manual pressure control. It features one dry pressure gauge (pressure supplied via an electronic pressure transducer) and suits three boom sections.

SCS303 Console

0630159315



ITEM	DESCRIPTION	RAVEN PART#
1	Mounting Bracket	107-0159-007
2	Boom Switch	412-2011-038
3	Mounting Knob	309-1000-006
4	Master Switch	412-2011-037
5	Pressure Gauge	063-0159-306
6	Fuse Holder	510-2001-003
7	Fuse, 15 Amp.	510-1003-003
8	Pressure Adjust Switch	412-2011-039
9	Cable Ass'y, Enclosure Hook-Up (8 ft.)	115-0159-011
10	12 ft. Cable Ext. Assembly	107-0159-043
11	Pressure Transducer	063-0159-316
12	Insulated Female Terminal	405-2001-018
13	16-14 AWG Female Terminal	405-2001-009
14	12-14 AWG Female Terminal	405-2001-008
15	6 ft. Cable Ass'y, Solenoid Hook-Up	115-0159-008
16	3/4" Valve Assembly	063-0159-001
17	1" Valve Assembly	063-0159-447
18	1 1/2" Valve Assembly	063-0159-448
19	Console	063-0159-315

PRESSURE TRANSDUCER

The pressure transducer converts the fluid pressure to an electronic signal which eliminates the possibility of chemical exposure to the operator.

Pressure Transducer

0630159316



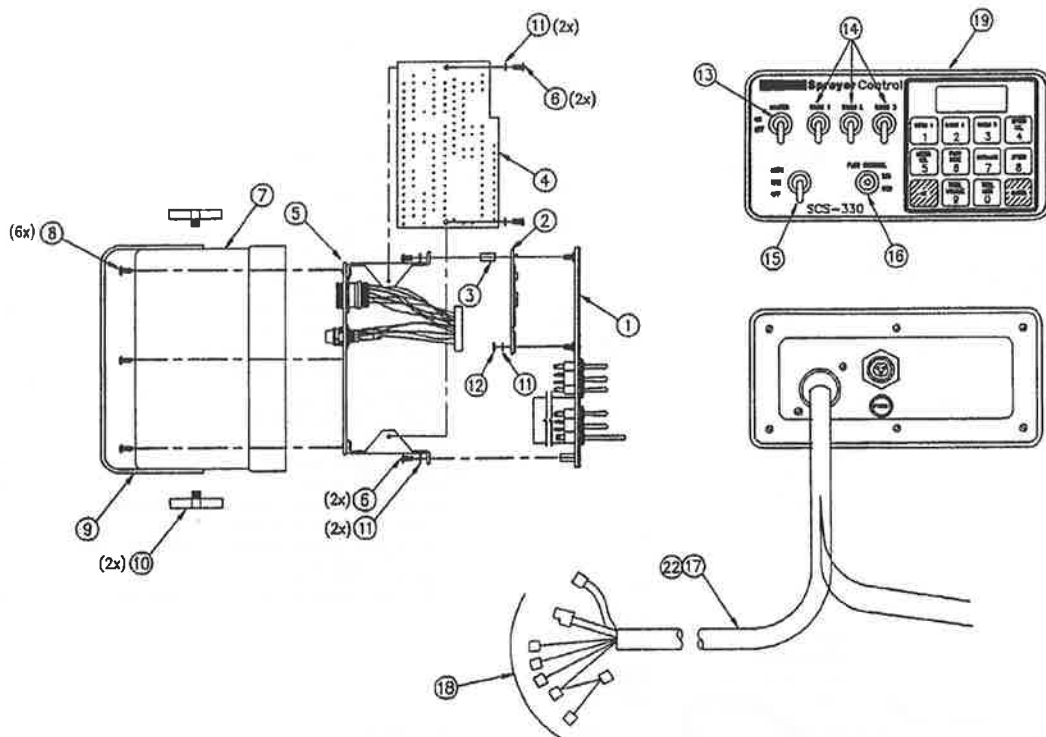
SCS330 AUTOMATIC MONITOR CONTROLLER CONSOLE



The Raven SCS330 automatic monitor controller automatically maintains rate (L/Ha) irrespective of speed changes. Has one display window, one automatic rate setting, manual rate control and suits three boom sections. Monitors rate, total applied volume and area and speed. Has non-volatile memory.

SCS330 Console

0630171115



ITEM	DESCRIPTION	RAVEN PART#
1	Faceplate Assembly	063-0171-116
2	Display P.C. Assembly	064-0159-535
3	Spacer, Threaded	305-2540-625
4	Processor P.C. Assembly	064-0159-534
5	Connector Plate Assembly	063-0171-118
6	Screw, 6-32 UNC x 5/16 in.	311-0004-008
7	Enclosure, With Inserts	063-0171-135
8	Screw, 6-32 UNC	321-0000-085
9	Mounting Bracket	107-0159-007
10	Knob	309-1000-006
11	Washer, Lock Internal	313-3000-007
12	Hex Nut	312-1001-014
13	Master Switch	412-2011-037
14	Boom Switch	412-2011-038
15	Off/Man/Auto Switch	412-2011-052
16	Inc/Dec Switch	412-2011-053
17	16 ft. Control Cable	115-0159-437
18	Kit, Cable Ass'y Terminals	117-0159-578
19	Console Only	063-0171-115
20	10 ft. Console Cable (Optional) Not Shown	115-0159-418
21	12 ft. Flow Control Cable (Optional) Not Shown	115-0159-405
22	32 ft. Control Cable (Optional)	115-0159-706

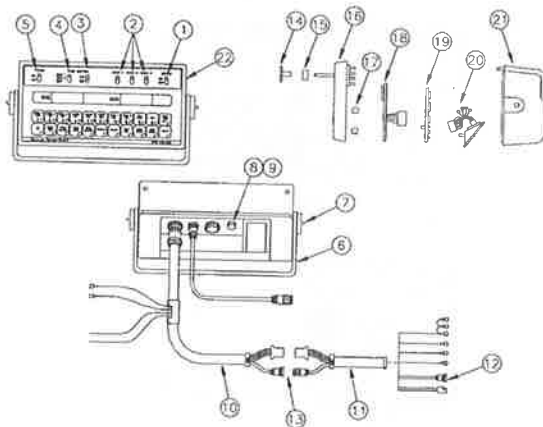
SCS440 AUTOMATIC MONITOR CONTROLLER CONSOLE



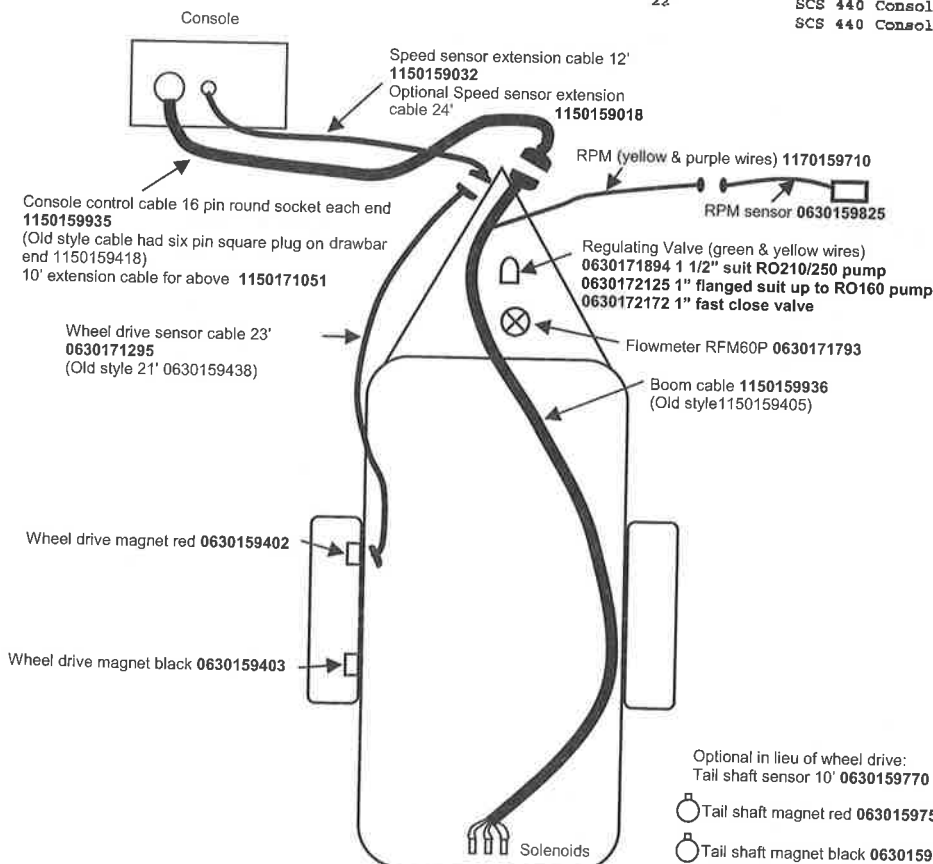
The Raven SCS440 automatic monitor controller automatically maintains rate (Ha) irrespective of speed changes. Alarm, two automatic rate settings, manual rate control and suits three boom sections. Monitors rate, total and subtotal applied volume and area, speed, volume in tank and time. Has non-volatile memory.

Console has printer output and two-way communication for uploading and downloading GPS information.

SCS440 Console 0630171942



ITEM	DESCRIPTION	RAVEN
1	Master Switch	412-20
2	Boom Switch	412-20
3	Adj. Switch	412-20
4	Rate1/Rate2/Manual Switch	412-20
5	Power Switch	412-20
6	Mounting Bracket	106-01
7	Mounting Knob	106-01
8	Fuse Holder	510-20
9	Fuse, 15 Amp.	510-20
10	Console Control Cable (10 ft.)	115-01
	Console Control Cable (Turf)	115-01
11	Flow Control Cable (6 ft.)	115-01
	Flow Control Cable (44 ft.)	115-01
12	Flow Meter Cable Ext (6 ft.)	115-01
	Flow Meter Cable Ext (12 ft.)	115-01
13	Flow Ext. Cable (12 ft.)	115-01
	Flow Ext. Cable (24 ft.)	115-01
14	Switch Cover	106-01
15	1-Set Filler Spacers	117-01
16	Face Plate Assembly	063-01
17	Display Board Spacer	107-01
18	LCD Display Board	064-01
19	Processor Board	064-01
	Processor Board (Serial Interface)	064-01
20	Connector Plate Assembly	063-01
	Connector Plate Assembly (Serial Interface)	063-01
21	Back Assembly	063-01
22	SCS 440 Console	063-01
	SCS 440 Console (Serial Interface)	063-01



NOTE. When ordering console and/or flow c specify cable connection drawbar. Old / New

NEW



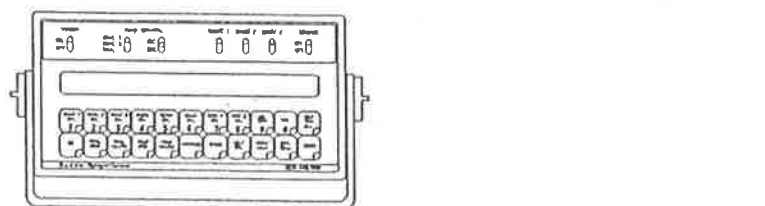
OLD



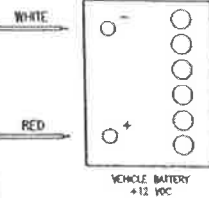
SCS440 AUTOMATIC MONITOR CONTROL CONSOLE

SCS 440 LIQUID CONTROL SYSTEM

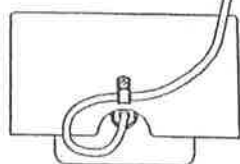
CONTROL CONSOLE
SCS 440 (SERIAL INTERFACE) 0630171942



12' Console cable
1150159935



SPEED EXTENSION CABLES
12' 115-0159-032



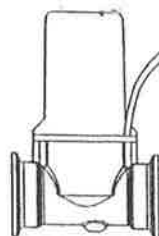
SPEED SENSORS
RADAR (RADAR ONLY): 063-0159-835
RADAR (KIT WITH POWER CABLE): 063-0159-836

** WIDE VARIETY OF WHEEL DRIVE, SPEEDOMETER AND RADAR ADAPTER CABLING. CONSULT RAVEN SALES REPRESENTATIVE FOR PART NUMBERS **

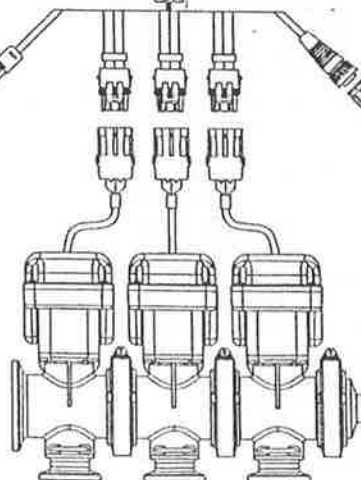
EXTENSION CABLES
10' 1150171051

** OPTIONAL CONSOLE, FLOW AND EXTENSION CABLING AVAILABLE. CONSULT A RAVEN SALES REPRESENTATIVE FOR PART NUMBERS **

Flow Cables
44' 1150159339
18' 1150159936

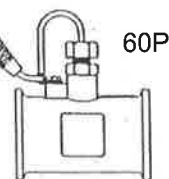


Control Valve:
1 1/2" 0630171894
1" 0630172125
Fast close: 0630172172



BOOM VALVES
1 SECTION: 063-0171-926
3 SECTION: 063-0171-928

FLOW EXTENSION CABLES



FLOW METER
0630171793

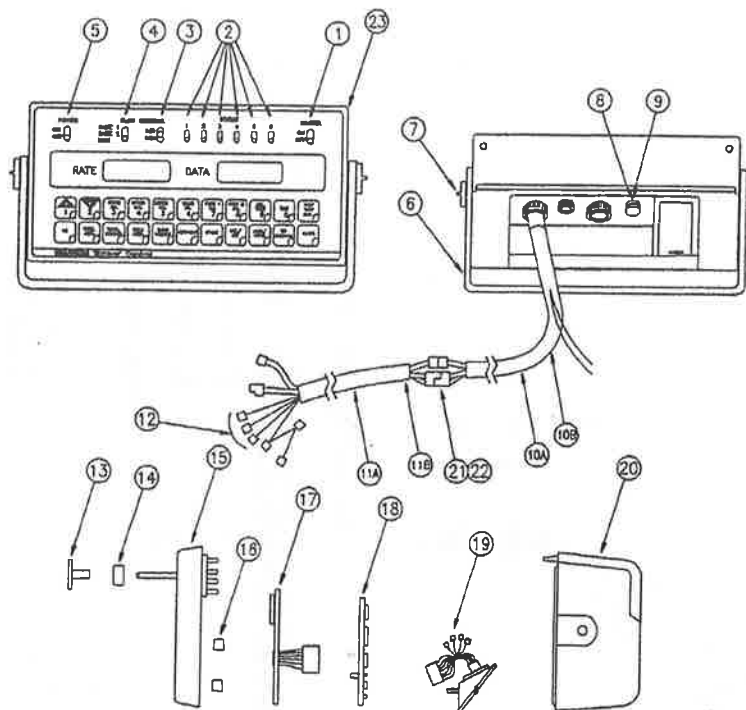
* CAN ALSO BE USED FOR PRESSURE SENSOR EXTENSIONS

SCS450 AUTOMATIC MONITOR CONTROLLER CONSOLE

The Raven SCS450 automatic monitor controller automatically maintains rate (L/Ha) irrespective of speed change. It features an Alarm, two automatic rate settings, manual rate control and has provision for six boom section control. Monitors total and subtotal applied volume and area, speed, volume in tank and time. Has non-volatile memory.

Console has printer output and two-way communication for uploading and downloading GPS information.

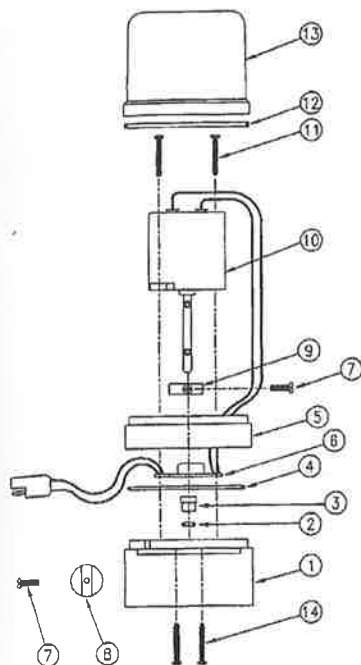
SCS450 Console 0630171791



ITEM	DESCRIPTION	RAVEN PART#
1	Master Switch	412-2011-046
2	Boom Switch	412-2011-047
3	Manual Adj. Switch	412-2011-047
4	Rate1/ Rate2/ Manual Switch	019-0159-078
5	Power Switch	412-2011-048
6	Mounting Bracket	106-0159-437
7	Mounting Knob	106-0159-438
8	Fuse Holder	510-2001-018
9	Fuse, 15 Amp.	510-1003-003
10	Console Control Cable (10 ft.)	115-0159-935
11A	Flow Control Cable (6 ft.)	115-0159-495
	Flow Control Cable (44 ft.)	115-0159-936
11B	Flow Meter Cable Ext. (6 ft.)	115-0159-016
	Flow Meter Cable Ext. (12 ft.)	115-0159-017
12	Assorted Terminal Kit	117-0159-402
13	Switch Cover	106-0159-433
14	1-Set Filler Spacers	117-0159-421
15	Face Plate Assembly	063-0159-526
16	Display Board Spacer	107-0159-478
17	LCD Display Board	064-0159-428
18	Processor Board	064-0159-485
19	Connector Plate Assembly	063-0159-948
20	Back Assembly	063-0159-530
21	Flow Ext. Cable (12 ft.)	115-0159-493
22	Flow Ext. Cable (24 ft.)	115-0159-494
23	Console Only	063-0159-747

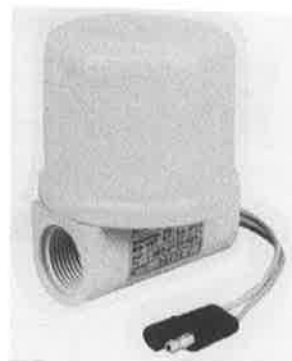
RAVEN SIMULATORS to suit SCS330 and SCS440 are also available **RAVEN SIMULATOR 0630171**

3/4" POLY CONTROL VALVE



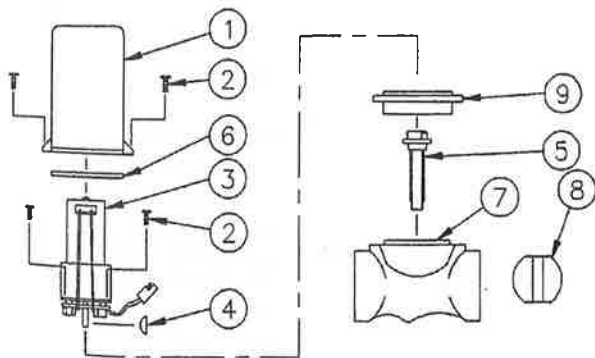
The Raven 3/4" Poly Control Valves are used to control flow to either the boom sections or the bypass to the tank via the orientation of the butterfly. The valve is rated at 1200 kPa (175 psi).

3/4" Poly Control Valve 0630171120
3/4" Poly Control Valve (360°) 0630159001



ITEM	DESCRIPTION	RAVEN PART#
1	Body, 3/4" Valve	019-0159-130
2	O-Ring, Viton	219-0000-002
3	Sleeve, O-Ring Retainer	106-0159-478
4	O-Ring, Viton	219-0002-038
5	Spacer, 3/4" Valve	106-0159-477
6	P.C. Board Assembly	064-0159-533
7	#4-40 UNC x 3/8 S.S. Mach. Screw	311-0008-028
8	Butterfly, Valve	107-0159-031
9	Cam, Switch	106-0159-476
10	Motor, Gear Reduction, Valve	416-0000-019
11	#4-24 x 1" Thrd. Forming Screw	310-0002-096
12	Gasket, Cover	219-0000-020
13	Cover, 3/4" Valve	107-0159-030
14	#6-20 x 1" S.S. Screw	310-0002-145

1" AND 1 1/2" POLY CONTROL VALVE

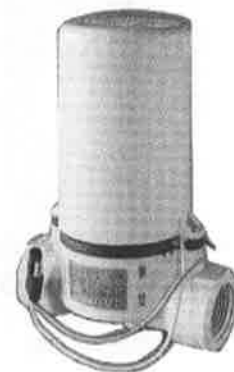


The Raven 1" and 1 1/2" Poly Control Valves are used to control flow to either the boom sections or the bypass to the tank via the orientation of the butterfly. The valve is rated at 1200 kPa (175 psi).

1" Poly Control Valve 0630159445
1" Poly Control Valve (360°) 0630159447
1 1/2" Poly Control Valve 0630159446
1 1/2" Poly Control Valve (360°) 0630159448
1" Flanged poly control valve (black) 0630172125

ITEM	DESCRIPTION	RAVEN PART#
1	Valve Cover	106-0159-407
2	#6-32 x 3/4" Lg. Screw	321-0000-256
3	Motor Assembly	063-0159-409
4	Woodruff Key	321-0000-062
5	Coupler Shaft (1" Valve)	019-0159-016
6	Coupler Shaft (1 1/2" Valve)	019-0159-015
7	Seal Tetraseal	219-0000-020
8	Valve Body Mod. (1" Valve)	019-0159-005
9	Valve Body Mod. (1 1/2" Valve)	019-0159-006
10	Butterfly (1" Valve)	106-0159-411
11	Butterfly (1 1/2" Valve)	106-0159-414
12	Isolation Flange Assembly	063-0159-457
13	Iso-Body Kit (1" Valve) (Not Shown)	117-0159-009
14	Iso-Body Kit (1 1/2" Valve) (Not Shown)	117-0159-010
15	Polarity Reversal Jumper* (Not Shown)	115-0159-415

*NOT SUPPLIED WITH STANDARD UNIT



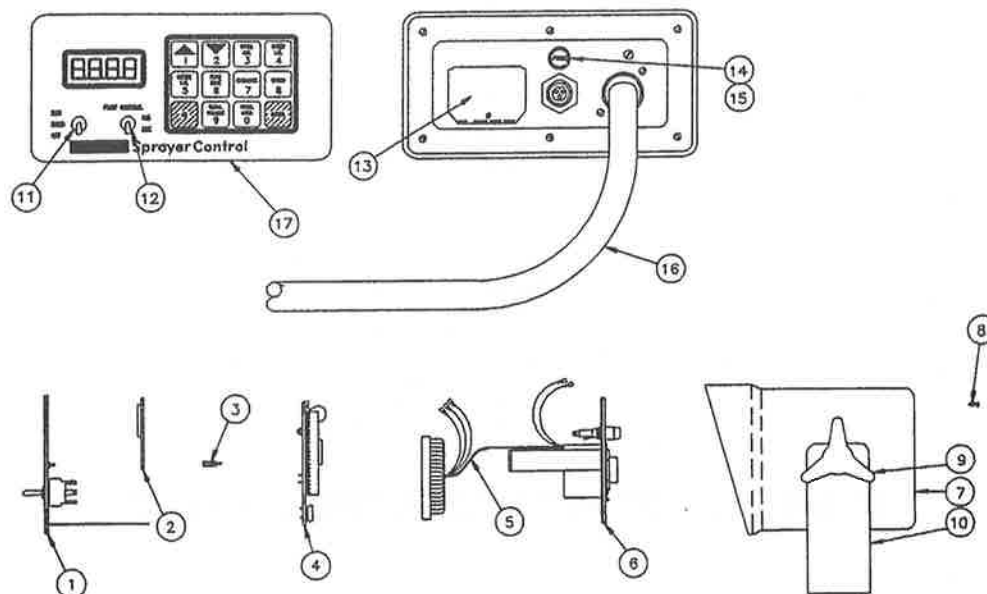
SCS550 MONITOR CONTROLLER CONSOLE



The Raven SCS550 Monitor monitors rate (L/Ha) with manual rate control. Has one display window. Monitors rate, total applied volume and area and speed and can suit up to six boom sections.

SCS550

0630159942



ITEM	DESCRIPTION	RAVEN PART#
1	Face Plate Assembly	063-0159-941
2	Display P.C. Assembly	064-0159-435
3	Spacer, Aluminum	305-2540-625
4	Processor P.C. Assembly	064-0159-511
5	Internal Cable Harness	115-0159-582
6	Connector Plate Assembly	063-0159-943
7	Console Enclosure	063-0159-542
8	6-32 UNC Screws	321-0000-085
9	Mounting Knob	309-1000-006
10	Mounting Bracket	107-0159-007
11	Switch & Ring Nut	412-2011-052
12	Switch & Ring Nut	412-2011-053
13	Battery Box Cover	063-0159-451
14	Fuse, 15 Amp.	510-1003-003
15	Fuse Holder	510-2001-018
16	Console Control Cable	115-0159-581
17	Console Only	063-0159-942

RAVEN SIMULATORS to suit SCS330, SCS440 and SCS550 are also available.

RAVEN SIMULATOR 0630171072

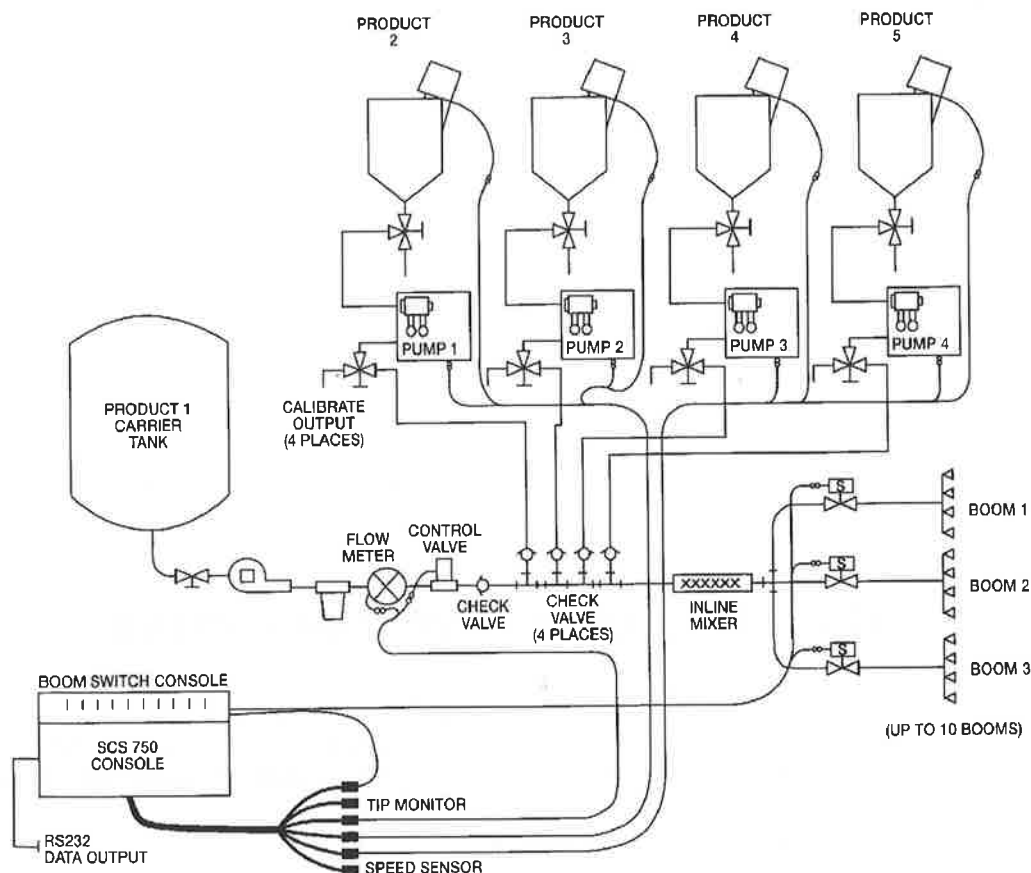
SCS750 DIRECT CHEMICAL INJECTION CONSOLE



The Raven SCS750 direct chemical injection controller can independently regulate five chemicals automatically, or up to four chemicals and a carrier at the same time. The chemical is injected into the pressure line close to the boom solenoids and is mixed via a mixer. Thus the sprayer tank contains only water and there is no need to meter any specific chemical volume. Has non-volatile memory, printer output and two-way communication for uploading and downloading GPS information.

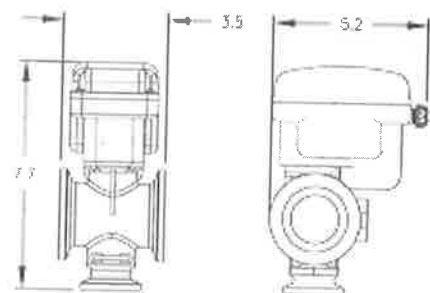
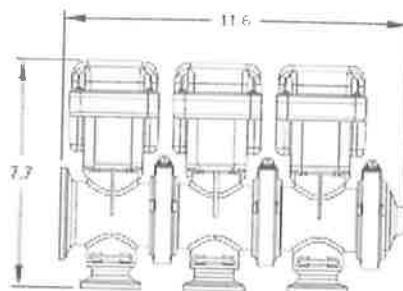
SCS750 Console

0630159903



RAVEN MOTORISED BOOM VALVES

The motorised boom valves provide on/off sprayer boom control. The valves go from fully open to fully closed approximately 1.5 seconds. The valves are available as a single valve or expandable to a bank of up to ten valves. Maximum operating pressure 150 psi. 3/4" ports.



0630171928

Electrical specifications

Open/Close time	=	0.7 seconds
Max current draw	=	5 amps (running)
Typical current draw	=	2 amps (running)
Full-open current draw	=	< 40mA
Closed current draw	=	0.0 amps

Wire color

Red	=	4-12 VDC
White	=	Ground
Black	=	Signal (4-12 VDC on signal opens valve)

Standard configuration

- Single valve
- 3-section bank
- Banjo flange fittings

Mechanical specifications

Inlet	.....	M200 series Banjo flanges
Outlet	.....	3/8" Female NPT
		or M100 series Banjo flange
Wetted parts	.....	Stainless steel
		Glass filled polypropylene
		Viton o-rings and seals
Working pressure	.....	175 PSI maximum
Flow rate	.....	300 GPM at 5 PSI pressure drop
		(Cv = 120)

Optional user configuration

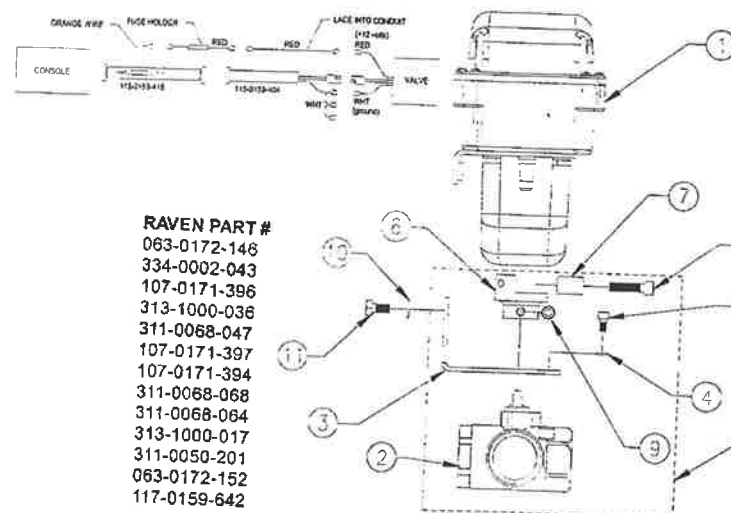
- 2- to 10-section bank

RAVEN 1" FAST CLOSE 3 WAY BALL VALVE

For use with SCS330, 440 and 450 Raven controllers. Electric pressure adjustment. Stainless steel ball and housing. 3 x 1" female threads. Suitable for dual boom, high flow rate application. Regulates both boom and bypass flow simultaneously. Maximum operating pressure 12 bar /175psi. **Must be used with Arag safety valve (459310)**

1" FAST CLOSE VALVE

0630172172



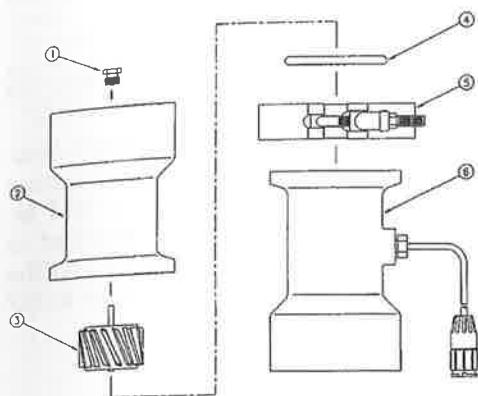
ITEM	DESCRIPTION
1	Motor Assembly, Fast Valve
2	1" 3 Way Ball Valve
3	Bracket
4	Washer Split Lock
5	Screw, Cap #10-24 x 3/8"
6	Coupler, 1" 3-Way
7	Clamp, Coupler
8	Screw, Cap, 1/4-20 x 1"
9	Screw, Cap, 1/4-20 x 1/2"
10	Washer, Split Lock
11	Bolt, Hex, 1/4-20 x 1/2"
12	Valve/Bracket Assembly
13	Wiring Kit

RAVEN PART #
063-0172-146
334-0002-043
107-0171-396
313-1000-036
311-0068-047
107-0171-397
107-0171-394
311-0068-068
311-0068-064
313-1000-017
311-0050-201
063-0172-152
117-0159-642

RAVEN FLOWMETERS

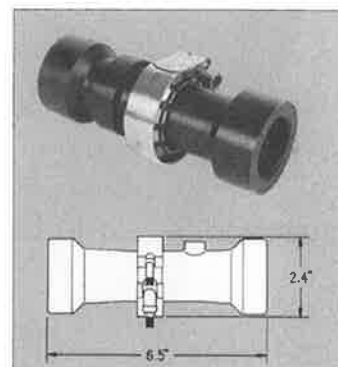
The Raven Flowmeters provide an economical method of accurately measuring a wide range of liquids at various flow rates. An electronic transducer located inside the flowmeter monitors turbine rotation. These digital signals are then interfaced to electronic consoles to give a volume readout. They are designed for compatibility with most chemicals and liquids.

RFM15 FLOWMETER



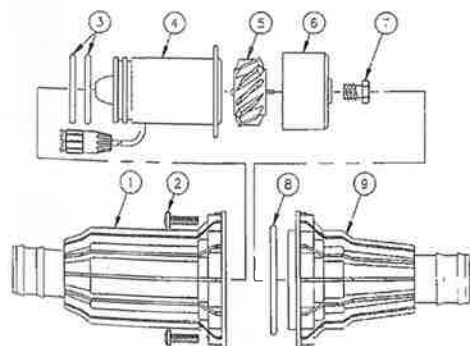
The Raven RFM15 Flowmeter has polypropylene housing and 1 1/4" female ports. It is rated at 1000 kPa (150 psi) and the flow range is 1 l/min to 56 l/min.

RFM15 Flowmeter 0630171121



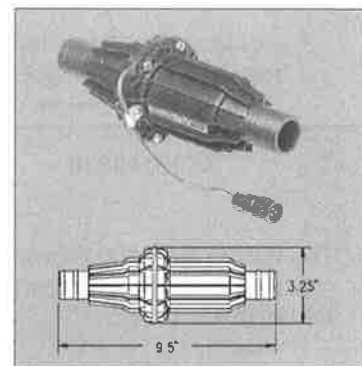
ITEM	DESCRIPTION	RAVEN PART#
1	Turbine Stud	063-0159-570
2	Hub Housing Assembly	063-0171-122
3	RFM15 Turbine	019-0159-164
4	O-ring, Viton	219-0002-028
5	Retainer Clamp	435-3003-033
6	Transducer Housing Assembly	063-0171-123

RFM55 FLOWMETER



The Raven RFM55 Flowmeter has polypropylene housing and 1 1/4" hose barb inlet and outlet. It is rated at 1200 kPa (175 psi) and the flow range is 3 l/min to 208 l/min.

RFM55 Flowmeter 0630159571
(Flowmeter no longer used, refer RFM60P, page 27)



ITEM	DESCRIPTION	RAVEN PART#
1	Sensor Housing	019-0159-085
2	#10-32 x 3/4" S.S. Screw	311-0007-037
3	O-Ring, Viton	219-0002-030
4	RFM55 Dual O-Ring XDCR Ass'y	063-0159-749
5	RFM55 Turbine	117-0159-020
6	Turbine Hub/Bearing Ass'y	063-0359-563
7	Turbine Stud Assembly	063-0159-570
8	O-ring, Viton	219-0000-042
9	Hub Housing W/Inserts	063-0159-776
10	Mounting Bracket, RFM 55 (Not Shown)	107-0159-507
**	Dual O-Ring Transducer Kit (Includes Items #3 & 4)	117-0159-569

RFM60P FLOWMETER

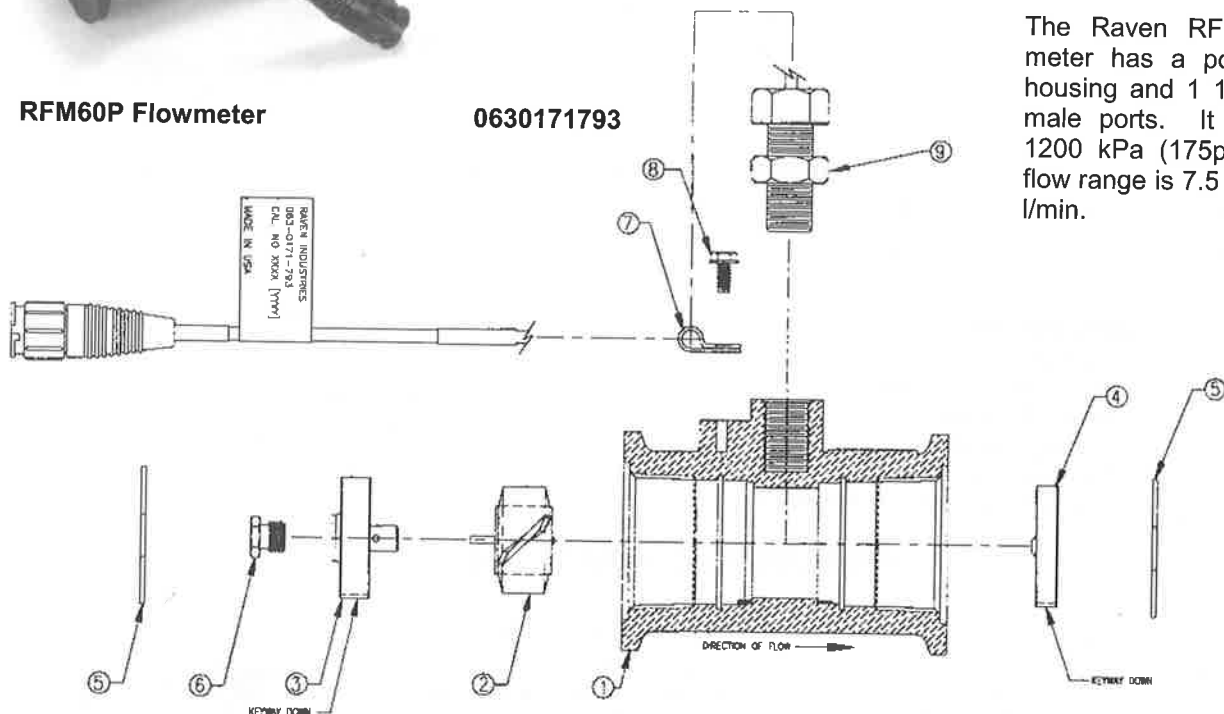


RFM60P Flowmeter

0630171793

ITEM	DESCRIPTION
1	Body, RFM 60 P Flowmeter
2	Rotor/Magnet Assembly
3	Hub/Bearing Assy, Upstream
4	Hub assembly, Downstream
5	Ring, Retaining, Internal
6	Stud Bearing
7	Clamp, Cable
8	Screw, Thread Forming
9	Sensor, assembly, External

RAVEN
106-01
063-01
063-01
063-01
335-01
063-01
435-31
310-01
063-01



The Raven RFM60P meter has a polypropylene housing and 1 1/2" NPT male ports. It is rated at 1200 kPa (175psi) and the flow range is 7.5 l/min to 378 l/min.

RFM100 FLOWMETER

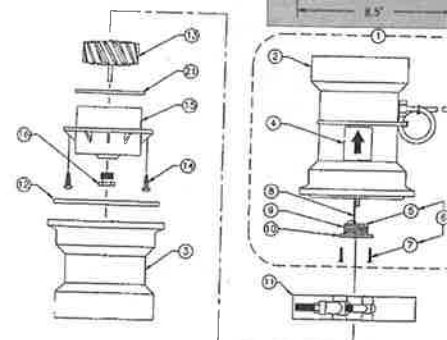
The Raven RFM100 Flowmeter has polypropylene housing and 2" NPT female ports. It is rated at 1030 kPa (150 psi) and the flow range is 11 l/min to 378 l/min.

RFM100 Flowmeter

0630171066

ITEM	DESCRIPTION
1	Outlet Housing Assembly
2	Outlet Housing
3	Hub Housing, Inlet
4	Label, Yellow W/black Arrow
5	End Bearing/P.C. Assembly
6	End Bearing/P.C. Assembly Kit
7	2-56 x 1/2" Flat Hd. S.S. Screw
8	P.C. Assembly
9	O-Ring, Viton
10	End Bearing Assembly
11	Retainer Clamp
12	O-Ring, Viton
13	RFM 100 Turbine
14	6-20 x 1/2" Pan Hd. S.S. Screw
15	Turbine Hub/Bearing Assembly
16	Turbine Stud Assembly
17	Thread Sealer (Not Shown)
18	Mounting Bracket, RFM 100 (Not Shown)
19	Hose Clamp (Not Shown)
20	Cable Kit (Not Shown)
21	O-Ring, Viton

RAVEN PART#
063-0171-068
107-0171-006
107-0171-005
039-0159-023
063-0171-069
117-0159-567
311-0013-390
064-0159-913
219-0000-018
063-0171-067
435-3003-032
219-0000-238
321-0000-221
310-0002-133
321-0000-222
063-0171-082
222-1001-016
107-0159-509
435-3003-009
117-0159-441
219-0002-140

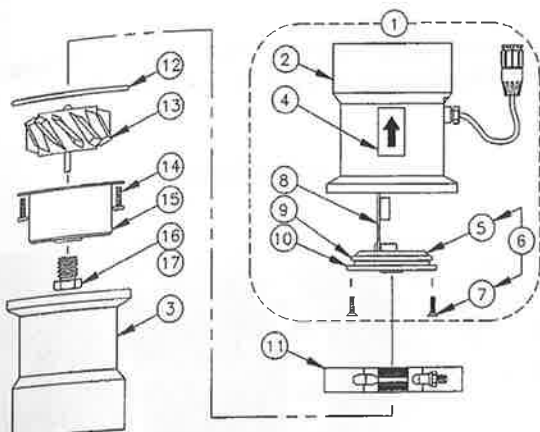


RFM200

The Raven RFM200 Flowmeter has polypropylene housing and 3" female ports. It is rated at 620 kPa (90 psi) and the flow range is 56 l/min to 757 l/min.

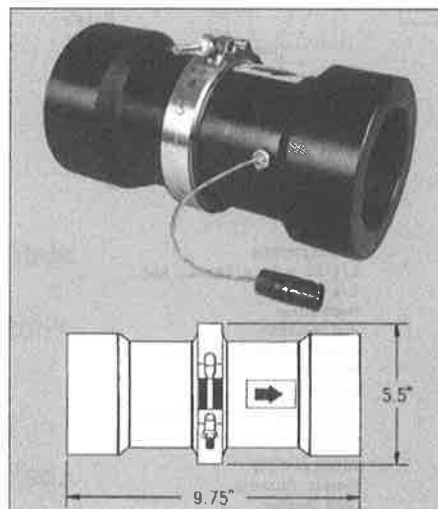
RFM200

0630159751



ITEM	DESCRIPTION
1	Sensor Housing Assembly
2	Sensor Housing
3	Hub Housing
4	Label, Yellow W/black Arrow
5	End Bearing/P.C. Assembly
6	End Bearing/P.C. Assembly Kit
7	2-56 x 1/2" Flat Hd. Screw
8	P.C. Assembly
9	O-Ring, Viton
10	End Bearing Assembly
11	Retainer Clamp
12	O-Ring, Viton
13	RFM 200 Turbine
14	4-20 x 1/2" Pan Hd. Screw
15	Turbine Hub/Bearing Assembly
16	Turbine Stud Assembly w/bearing
17	Thread Sealer (Not Shown)
18	Mounting Bracket, RFM 200 (Not Shown)
19	Hose Clamp (Not Shown)
20	Cable Kit (Not Shown)

RAVEN PART#
063-0159-750
107-0159-617
107-0159-618
039-0159-023
063-0159-646
117-0159-428
311-0013-390
064-0159-447
219-0000-040
063-0159-591
435-3003-031
219-0000-052
117-0159-017
311-0008-027
063-0159-564
063-0159-575
222-1001-016
107-0159-509
435-3003-009
117-0159-441

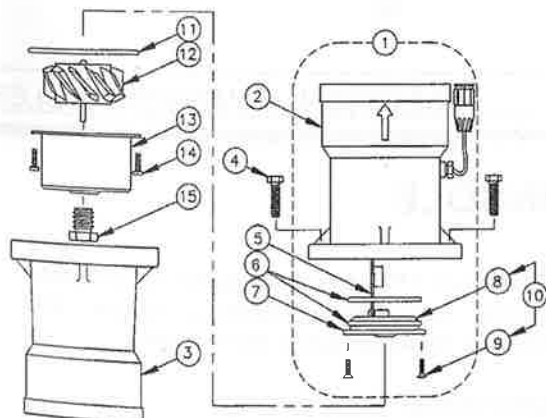


RFM200A

The Raven RFM200A Flowmeter has cast iron housing and 3" female ports. It is rated at 2068 kPa (300 psi) and the flow range is 56 l/min to 757 l/min.

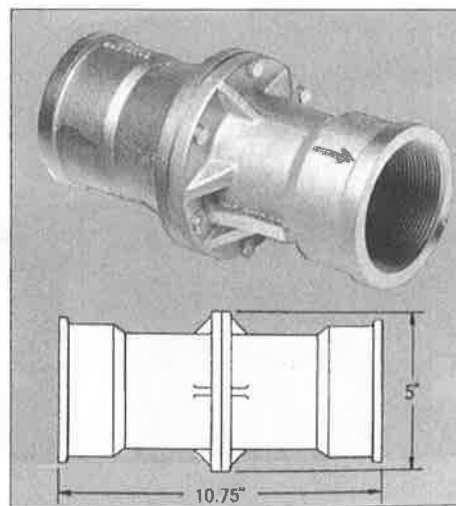
RFM200A Flowmeter

0630159574

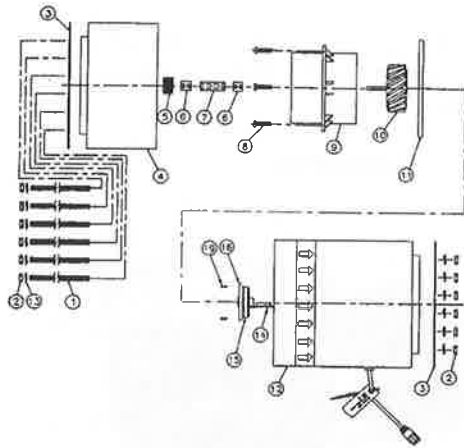


ITEM	DESCRIPTION
1	Sensor Housing Assembly
2	Sensor Housing
3	Hub Housing
4	1/4-20 x 1 Bolt
5	P.C. Assembly
6	O-ring, Viton
7	End Bearing Assembly
8	End Bearing/P.C. Assembly
9	2-56 x 5/16" Stainless Steel Screw
10	End Bearing/P.C. Assembly Kit
11	O-ring, Viton
12	O-ring, Butyl
13	RFM 200 Turbine
14	Turbine Hub/Bearing Assembly
15	Stud W/Bearing
16	Cable Kit (Not Shown)
17	Thread Sealer (Not Shown)
18	Mounting Bracket, RFM 200 (Not Shown)
19	Hose Clamp (Not Shown)

RAVEN PART#
063-0159-573
105-0159-004
105-0159-003
311-0050-230
064-0159-447
219-0000-040
063-0159-591
063-0159-646
311-0011-030
117-0159-428
219-0000-052
219-0000-051
117-0159-017
063-0159-564
063-0159-575
117-0159-441
222-1001-016
107-0159-509
435-3003-009



RFM400 FLOWMETER



The RFM400 Flowmeter has polypropylene housing and 4" ferrule ports. It is rated at 620 kPa (90 psi) and the flow range is 94 l/min. to 1514 l/min.

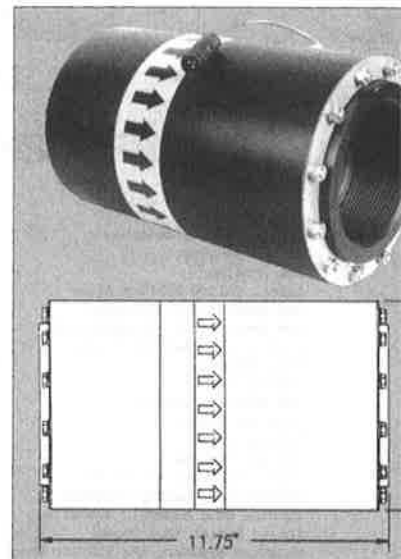
RFM400 Flowmeter

0630159966

ITEM	DESCRIPTION
1	1/4-20 x 11.6 Thread Rod
2	1/4-20 Nut
3	Head Ring
4	Hub Housing
5	Stud/Bearing Assembly
6	Bushing
7	Spacer
8	10-32 x 5/16 Pan Hd Screw
9	Inlet Hub
10	Rotor
11	Viton O-Ring
12	Sensor Housing
13	Lock Washer
14	PC Assembly
15	O-Ring, Viton
16	End Bearing Assembly
17	End Bearing/PC Ass'y Kit (Not Shown)
18	Cable Kit (Not Shown)
19	Flat Head S.S. Screw (Not Shown)

RAVEN PART#

019-0159-127
312-1001-033
107-0159-968
107-0159-966
063-0159-975
325-0000-013
107-0159-863
311-0002-043
321-0000-281
321-0000-280
219-0002-355
107-0159-967
313-1000-017
064-0159-447
219-0000-040
063-0159-591
117-0159-428
117-0159-441
311-0013-390



FLOW MAX 110 CONSOLE



The Flow Max 110 console provides for accurate tank filling. The console is moisture resistant and designed to be mounted on the sprayer.

Features include:

- Total and batch volumes.
- Litres/minute.

Can be used with any of the Raven flowmeters (size of flowmeter determined by filling capacity).

Flow Max 110 Console **0630171357**

RAVEN FLOWMAX 220 FILL FLOW METER

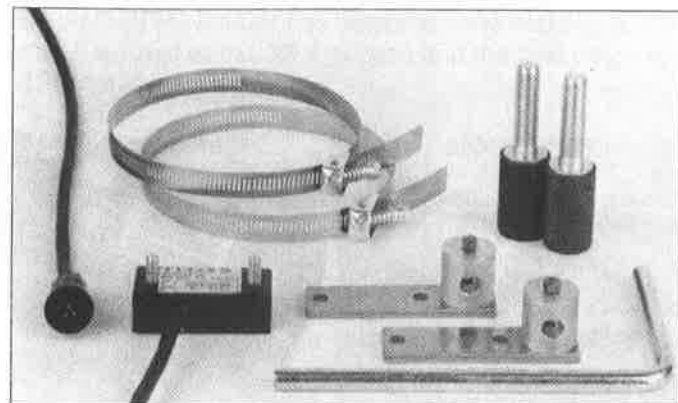
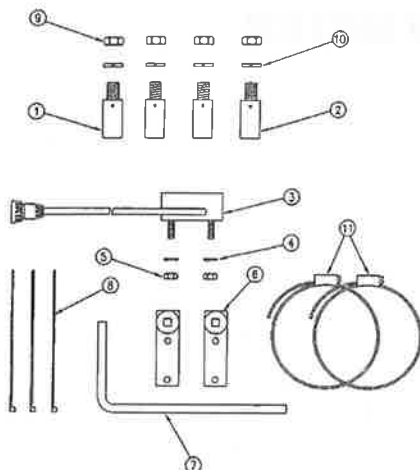


- Self contained digital display indicated flow rate and totals.
- Records three separate total volumes.
- Mounts in line on sprayer, nurse truck or chemical fill tank.
- Replaceable 3.6 volt long-life battery.
- 6 digit easy to read display.
- Flanged 2" plumbing.
- Self contained—no other consoles or flowmeters needed.

Raven Flow Max 220 fill flowmeter

0630172123

WHEEL DRIVE SPEED SENSOR



ITEM	DESCRIPTION
1	Red Magnet Ass'y, North
2	Black Magnet Ass'y, South
3	Sensor Ass'y (23 ft.) Standard
	Sensor Ass'y (10 ft.) Turf
	Sensor Ass'y (7 1/2 ft.)
4	1/4" Lock Washer
5	1/4-20 Hex Nut
6	Turret Assembly
7	Speed Sensor Rod
8	Cable Ties
9	1/2-13 Hex Nut
10	1/2" Lock Washer
11	Band Clamp
12	24 ft. Speed Sensor Ext. Cable (Optional)
13	12 ft. Speed Sensor Ext. Cable (Optional)

RAVEN PART#

063-0159-402
063-0159-403
063-0171-295
063-0159-770
063-0171-149
313-1000-016
312-1001-031
063-0159-483
107-0159-472
435-1000-003
312-1001-043
313-1000-028
435-3003-009
115-0159-018
115-0159-032

The Raven Wheel Drive Speed Sensor has an electronic sensor which receives signals from the magnets located equidistant on the wheel. After calibration this sensor serves to monitor speed, distance and area which is displayed on the console.

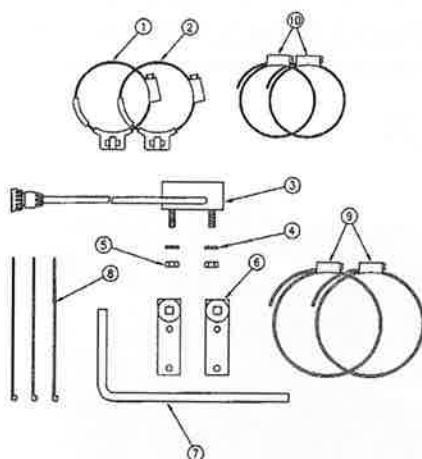
Wheel Drive Speed Sensor
0630159484

DRIVE SHAFT SPEED SENSOR REPLACEMENT PARTS

The Raven Drive Shaft Speed Sensor has an electronic sensor which receives signals from the magnets located equidistant on the drive shaft. After calibration this serves to monitor speed, distance and area which is displayed on the console.

Drive Shaft Speed Sensor

0630159730



ITEM	DESCRIPTION
1	Red Magnet Ass'y, North
2	Black Magnet Ass'y, South
3	Sensor Assembly
4	1/4" Lock Washer
5	1/4-20 Hex Nut
6	Turret Assembly
7	Speed Sensor Rod
8	Cable Ties
9	Band Clamp
10	Small Band Clamp
12	24 ft. Speed Sensor Ext. Cable (Optional)
13	12 ft. Speed Sensor Ext. Cable (Optional)

RAVEN
063-01
063-01
063-01
313-10
312-10
063-01
107-01
435-10
435-30
435-30
115-01
115-01



Shaft speed sensor, fitted to hydraulic drive pumps, Director fans, etc., used in conjunction with SCS 440 and 450 consoles

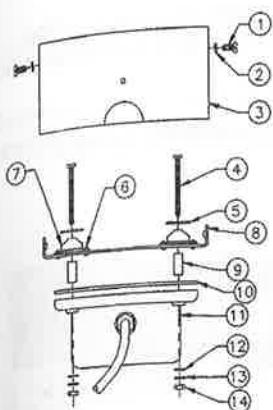
Complete sensor assembly 1170159710
Sensor 1170159929

RADAR SPEED SENSOR

The Raven Radar Speed Sensor is configured with a state-of-the-art array antenna. The summation of two signals, one forward and one back, gives an accurate and defined vehicle speed.

Radar Speed Sensor

0630159836



ITEM	DESCRIPTION
1	10-32 x 3/8" UNF-2B Screw
2	#10 Lock Washer
3	Radar Mounting Box
4	8-32 x 2" UNC-2A Screw
5	Flat Washer
6	4-40 x 1/4" Screw
7	Vibration Insulator Bell
8	Hanger Bracket
9	Spacer Aluminum
10	Ballast
11	Radar Gun Sub Assembly
12	Flat Washer
13	#8 Ext. Lock Washer
14	8-32 UNC-2A Hex Nut
15	1/4" ID Cable Clamp (Not Shown)
16	8-32 x 7/16 UNC-2B Screw (Not Shown)
17	12' Ext. Cable (Not Shown)
18	24' Ext. Cable (Not Shown)
19	12' Power Cable (Not Shown)

RAVEN PART#
311-0002-040
313-1000-014
107-0159-695
311-0001-030
313-2300-117
311-4000-001
219-0000-065
107-0159-696
327-1550-750
107-0159-697
063-0159-834
313-2300-007
313-4000-007
312-1001-020
435-3002-023
311-0001-011
115-0159-032
115-0159-018
115-0159-539

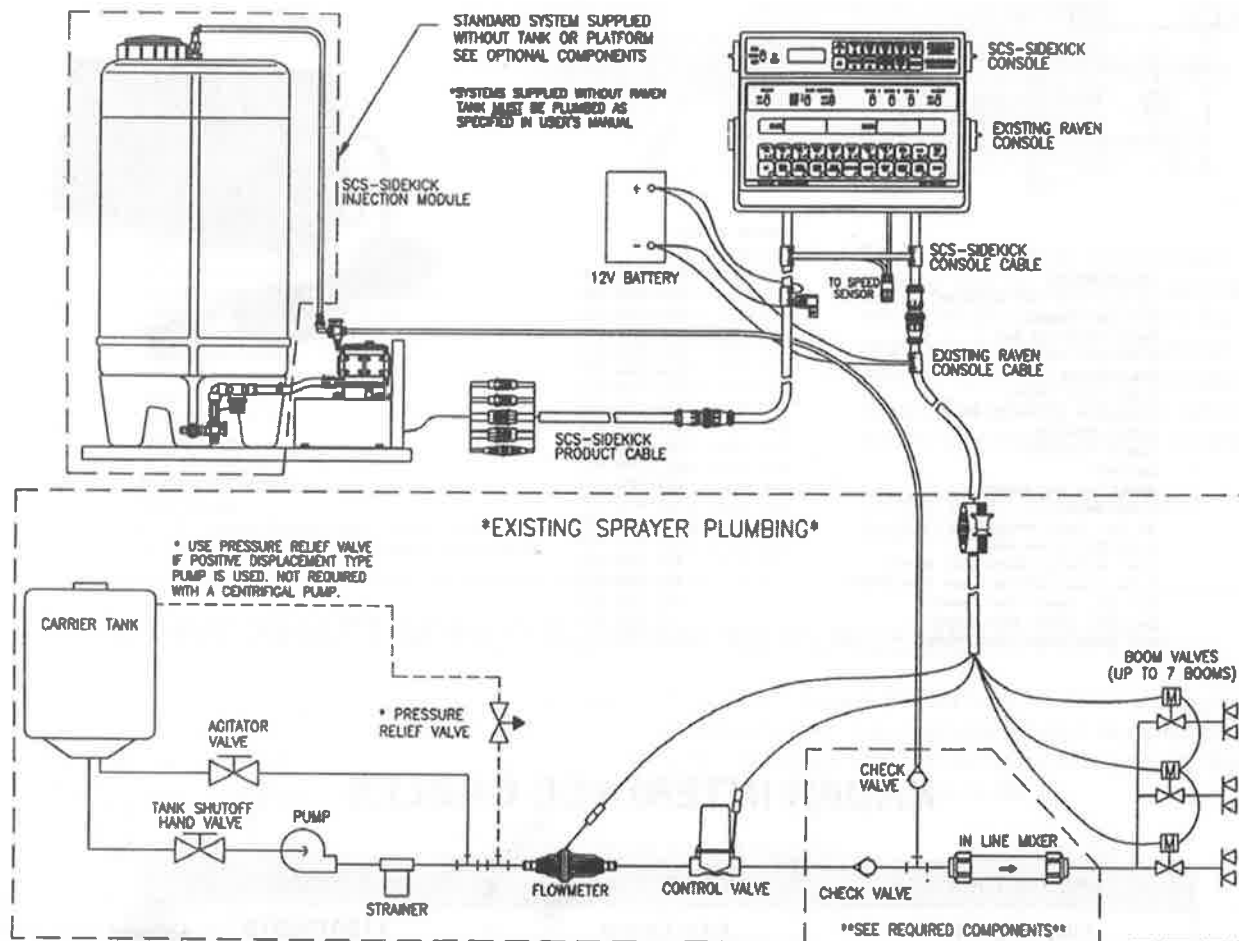
RADAR INTERFACE CABLES

Radar Type	Vehicle Type	Radar Interface Cable
Dickey John	John Deere	1150159519
	John Deere 7000 Series	1150159700
	Case-IH	1150159517
	Cat Challenger (65 & 75)	1150159518
	Cat Challenger (65C & 75C)	1150159627
	Ford / White	1150159529
	Other	1150159526
Magnavox	John Deere	1150159519
	Other	1150159522 & 1150159436
TRW	Case-IH	1150159432
	Other	1150159522 & 1150159432

RAVEN SCS-SIDEKICK PLUMBING DIAGRAM

The Raven SCS-Sidekick provides for direct chemical injection into the spray line. The system utilises existing Raven componentry found on a conventional sprayer, with the addition of a product tank, sidekick metering pump and additional control console.

The Sidekick is available to be retrofitted to an existing GoldAcres sprayer, utilizing an SCS440/450 system.



Schematic layout of SCS-Sidekick fitted to an existing GoldAcres sprayer using SCS 440/450 controller.



Additional Sidekick console

PART NUMBER	DESCRIPTION
063-0171-955	High volume without tank
063-0171-956	Low volume without tank
063-0171-957	High volume with 90 litre tank
063-0171-958	Low volume with 90 litre tank
063-0171-964	Console, SCS-Sidekick
115-0171-130	Console cable 15'
115-0171-138	Product cable 27'
117-0159-760	Plumbing kit
117-0159-761	Kit, high volume with 90 litre tank
117-0159-762	Kit, low volume with 90 litre tank
117-0159-763	Kit, high volume without tank
117-0159-764	Kit, low volume without tank

GOLDACRES LOW PRESSURE ELECTRICAL CONTROL SYSTEMS

GOLDACRES ELECTRIC BOOM CONTROL WITH MANUAL PRESSURE REGULATION

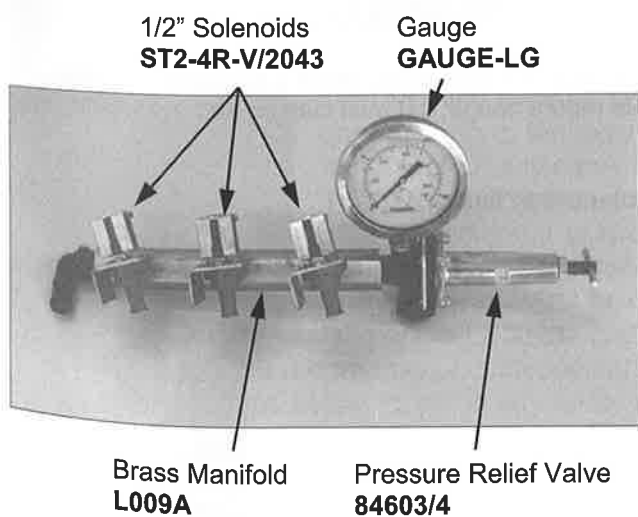
System provides electric remote boom on/off control and manual pressure regulation. Includes control box complete with all necessary cabling, solenoids, manifold, gauge, exhaust clamps and manual pressure regulator.

DESCRIPTION	COMPLETE SYSTEM PART NO	CONSOLE PART NO	MANIFOLD PART NO.
2-way boom control	GCBMP-2	GCB-2C	GCBMP-2M
3-way boom control	GCBMP-3	GCB-3C	GCBMP-3M
4-way boom control	GCBMP-4	GCB-4C	GCBMP-4M
5-way boom control	GCBMP-5	GCB-5C	GCBMP-5M
6-way boom control	GCBMP-6	GCB-6C	GCBMP-6M



CONSOLE

Included is the box, fuse and fuse holder, switches, cabling, connecting plug and battery clamps.



MANIFOLD

Included is the manifold, 1/2" solenoids, manual pressure regulator, gauge, exhaust clamps and nylon fittings to suit.

OPTION: 3/4" Solenoid in lieu of 1/2"

Nylon Fittings to suit

GOLDACRES LOW PRESSURE ELECTRICAL CONTROL SYSTEMS

GOLDACRES ELECTRIC BOOM CONTROL WITH ELECTRIC PRESSURE REGULATION

System provides electric remote boom on/off control and **electric pressure regulation**. Includes control box complete with all necessary cabling, solenoids, manifold, remote mount gauge, exhaust clamps and electric pressure regulator.

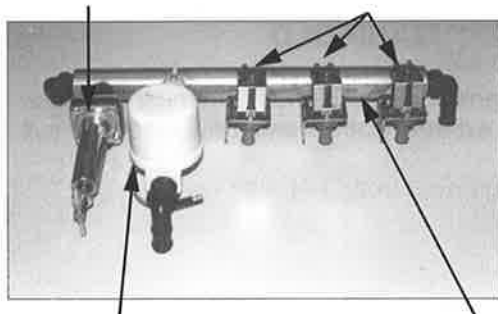
DESCRIPTION	COMPLETE SYSTEM PART NO	CONSOLE PART NO	MANIFOLD PART NO
2-way boom control	GCBEP-2	GCBEP-2C	GCBEP-2M
3-way boom control	GCBEP-3	GCBEP-3C	GCBEP-3M
4-way boom control	GCBEP-4	GCBEP-4C	GCBEP-4M
5-way boom control	GCBEP-5	GCBEP-5C	GCBEP-5M
6-way boom control	GCBEP-6	GCBEP-6C	GCBEP-6M



CONSOLE

Included is the box, fuse and fuse holder, switches, cabling, connecting plug and battery clamps.

Pressure Relief Valve 1/2" Solenoids
8460-3/4 ST2-4R-V/2043



3/4" Electric Pressure Regulator 0630159001
Brass Manifold L015A

Nylon Fittings to suit

MANIFOLD

Included is the manifold, 1/2" solenoids, electric pressure regulator relief valve, remote mount gauge, exhaust clamps and nylon fitting suit.

OPTION: 3/4" Solenoid in lieu of 1/2"

Remote mount gauge kit
RMK



GOLDACRES DIRECTOR PRESSURE ELECTRICAL CONTROL SYSTEMS

The system provides electric on/off control of each side of the sprayer, and electric pressure adjustment. Includes control box complete with all necessary cabling to the rear of the tractor.



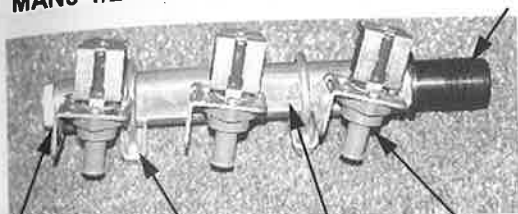
Director control box with fan RPM read out
DIR-CON

* Please advise if double or single row sprayer.

GOLDACRES THREE SOLENOID MANIFOLDS FITTED TO PRAIRIE SPRAYERS

Complete 1/2" Manifold
MAN3-1/2-COM

Hose barb 3/4" x 1 1/4"
A34114



3/4" Plug
F34

Exhaust Clamp
C2

1/2" Solenoids
ST2-4R-V/2043

Manifold (bare)
L009A

BOOM SHUTOFF MANIFOLD

Included is the manifold, 1/2" solenoids, exhaust clamps, and nylon fitting to suit.

OPTION: 3/4" Solenoid in lieu of 1/2"

Hose barb 3/4" x 1 1/4"
A34114

3/4" Solenoid
12QW2-CNBVT-75D7
1/2" to 3/4" Elbow
EL1234



Complete 3/4" Manifold
MAN3-3/4-COM

GOLDACRES LINE LOW PRESSURE INDICATORS



This warning system has been developed particularly for dual spray lines which can have up to ten individual boom sections fitted, but is also a valuable operational tool for any spray boom with remote switching.

The display consists of a pressure sensor fitted to each spray line immediately after the solenoid or motorised sectional valve. The sensor is powered separately from the sectional valve and each has a separate earth.

An LED display built into the foam marker box has up to ten lights available (ie up to ten sections). Once pressure exceeds 15 psi the LED illuminates.

The sensors are brass construction with special seals to resist water and agricultural chemicals. If the pressure drops below 15 psi in any spray section, the LED switches off, warning the operator of a malfunction. This give operators great peace of mind and reduce the requirement to be continually checking to see boom sections are all functioning.

GOLDACRES LINE LOW PRESSURE INDICATORS **LINEL***
(* = number of sections)

Spraying Systems Pressure Regulating Valves



AA244- $\frac{3}{4}$ Remote Control Electric Regulating Valve

The AA244- $\frac{3}{4}$ butterfly valve provides remote pressure control. Features two-wire lead for use in 12VDC system, reduced pressure loss (0.2 bar for 76 L/min flow), and maximum operating pressure of 7 bar. $\frac{3}{4}$ " NPT (F) connections. Good corrosion resistance. Low current draw

**Gasket & Seal Repair Kit to suit AA244
PK-AB244C-KIT**

AA247-1 $\frac{1}{2}$ Remote Control Electric Regulating Valve

Larger capacity than AA244- $\frac{3}{4}$ with 0.7 bar pressure loss for 265 L/min flow. For use in 12 VDC systems. Maximum operating pressure of 7 bar. 1 $\frac{1}{2}$ " NPT (F) connections. Good corrosion resistance. Low current draw (0.15 amp).



Model AA344E-2PR Linear Pressure Regulating Valve

The AA344E-2PR two-way pressure regulating valve is designed to provide gradual smoother regulation and control in agricultural spraying operations. Features two-wire lead that provides easy installation with 744 Sprayer Control systems. Low power consumption (1.0 amp). Pressure drop of 0.35 bar at 102 L/min. Maximum operating pressure of 20 bar. Available with $\frac{3}{4}$ " and 1" connections B NPT (F).

of 20 bar. Available with $\frac{3}{4}$ " and 1" connections B NPT (F).

Model 344E-2RL Pressure Regulating Valve

Larger capacity than the 344E-2PR with a pressure drop of 5 psi/0.35 bar at 102 L/min and a cycle time from open to closed is 12 seconds.

344 Ball Valve Type	Regulating		
344 Ball Valve Designator	E-2R	E-2RL	E-2PR
Number of Wires	3	2	2
Nominal Amps at 13.8 Volts	.13	.13	.13
Cycle Time in Seconds at 13.8 Volts	13	13	26
Valve Body Assembly Cut Away			
Ball Profile			
Flow Rate in L/min at 0.35 bar drop	121	102	45
No Flow to Full Flow at 13.8 VDC Time in Sec	8	12	21
Full Flow to No Flow at 13.8 VDC Time in Sec	9	12	22

SPRAYING SYSTEMS PRESSURE RELIEF / REGULATING VALVES

**Model 8460#**

~ Flow rate to 212 L/min for 1/2" and 265 L/min for 3/4"

Model 9840#

~ Similar to the 8460 with different choices of materials.
~ Flow rate to 212 L/min for 1/2" and 265 L/min for 3/4"

DIAPHRAGM TYPE**PRESSURE RELIEF/REGULATING VALVES**

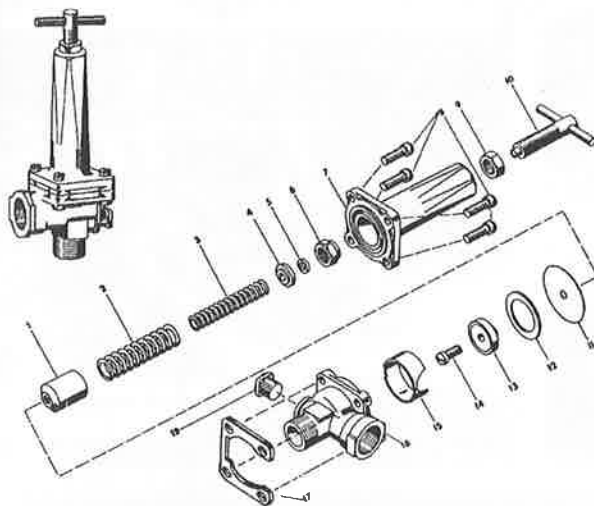
Bypasses excess liquid. Choice of 1/2" and 3/4" NPT sizes. Chemical-resistant diaphragm seals off operating parts from contact with chemicals and remains resilient for chatter-free, responsive pressure control.

Able to limit maximum obtainable system pressure.

FEATURES:

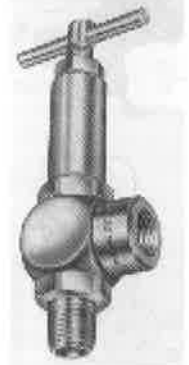
- ~ Stainless steel springs, responsive to the pressure range of each valve.
- ~ Extra-large valve passages to handle full flow from supply line.
- ~ Positive lock nut to hold adjustment screw firmly in place. Not affected by jarring and vibration.
- ~ Made of quality materials - choice of brass, aluminium, ductile iron and nylon as listed in tables.

Valve No.	Inlet & Pipe Connections	Material Inlet Body Bonnet		Pressure Range
8460-A-50	1/2" or 3/4"	Nylon	Aluminum	Up to 3.5 bar
8460-A-300		Nylon	Aluminum	Up to 20 bar
9840-A		Brass	Aluminum	
9840-A-AL		Aluminum	Aluminum	
9840-A-DI		Ductile Iron	Aluminum	

**Model AA1101/4 Brass**

~ Brass 1/4" valve commonly used when regulating pressure on 12 volt sprayers with booms

Larger sizes available - 1", 1 1/4" and 1 1/2"



ITEM	PART NO.	DESCRIPTION
1	CP8367-AL	Guide Sleeve, Aluminum
2	CP8373-SS	Outside Spring, Stainless Steel (For 8460--300)
	CP13128-SS	Outside Spring, Stainless Steel (For 8460--50)
3	CP8374-SS	Inside Spring, Stainless Steel (For 8460--300)
4	CP8371-AL	Spring Retainer, Aluminum
5	CP8369-NYB	Washer, Nylon (Black)
6	CP8368-SS	Adjusting Nut, Stainless Steel
7	CP8362-AL	Bonnet, Aluminum
8	CP7688-IZP	Screw, Steel, Zinc Plated (4 Required)
9	CP5898-AL	Lock Nut, Aluminum
10	CP5896-ALSS	Adjusting Stem (Sub-Assembly)
11	CP8366-FA	Diaphragm, Fairprene
12	CP8365-304SS	Stop Ring, Type 304 Stainless Steel
13	CP8364-NYB	Back Up Seat, Nylon (Black)
14	CP8477-SS	Screw, Stainless Steel
15	CP8389-304SS	Chamber Insert, Type 304 Stainless Steel
16	CP8361-1/2-NYB	Body, Nylon (Black) For 8460-1/2
17	CP8361-3/4-NYB	Body, Nylon (Black) For 8460-3/4
18	CP9017-IZP	Clamp Plate, Steel, Zinc Plated
	8400-1/4-PPB	Pipe Plug, Polypropylene (Black)

SOLENOIDS (for boom shut-off)

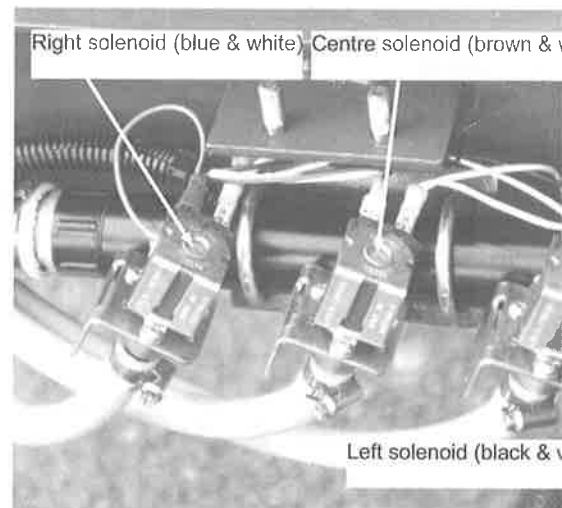
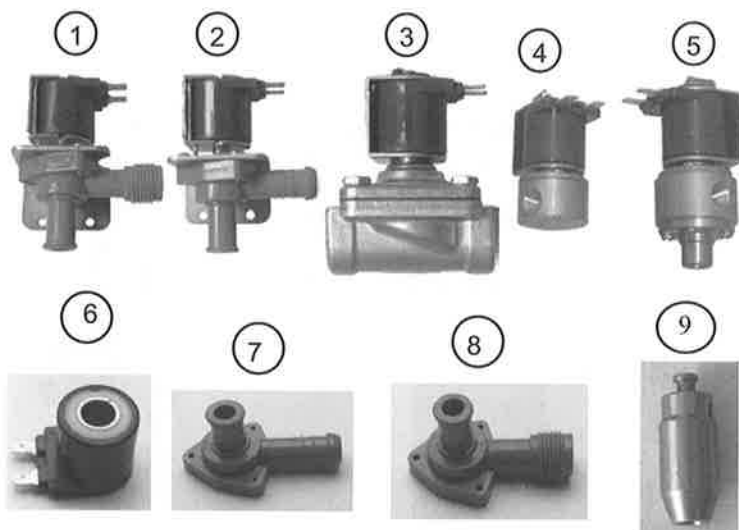
The pilot-operated solenoids provides for simple and effective boom shut-off.

When the solenoid is energized, the plunger opens the pilot orifice located in the centre of the floating diaphragm. This relieves the pressure from the top of the diaphragm to the outlet side of the valve which results in an unbalanced condition and allows the main pressure line to lift the diaphragm off the main orifice, thereby opening the valve.

SOLENOID TROUBLESHOOTING:

PROBLEM	POSSIBLE CAUSE	POSSIBLE REMEDY
Valve fails to operate	- power supply failure	- check all connections and all wires for damage
	- diaphragm damaged (or hole in diaphragm blocked)	- replace diaphragm and ensure hole is clear
	- foreign object blocking plunger from seating	- check and clean inside solenoid
	- system pressure greater than 110 psi	- reduce system pressure

If total console failure occurs, as a temporary measure (so as to be able to empty current tank load) the plunger spring in the solenoid can be removed (so that the solenoid is always open) and the boom controlled by putting PTO in and out of gear.

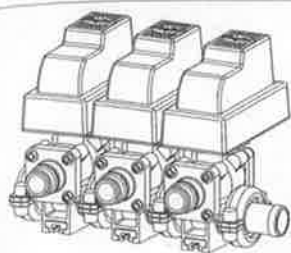


POS. NO.	DESCRIPTION	SIZE	PART NO.	TO SUIT:	REPAIR PART
1	12VDC Solenoid - Thread/Barb	1/2"	ST2-4R-V/2043	Electric Controls	M16
2	12VDC Solenoid - Barb/Barb	1/2"	ST2-HR-V/1833	Electric Controls	M16
3	12VDC Solenoid	3/4"	12QW2-CNBVT-75D7	Electric Controls	KM30
4	12VDC Liquid Solenoid	1/4"	4Q3M-ANBNT-75D7	Exacta Foam Marker	KM13
5	12VDC Air Solenoid	1/4"	4Q3M3T-DNBNT-75D7	Exacta Foam Marker	KM30
6	12VDC Solenoid coil	-	G60185-64	12 Volt solenoid	-
7	1/2" Solenoid body (barb-barb)	1/2"	G10151	1/2" Solenoid	-
8	1/2" Solenoid body (barb-thread)	1/2"	G10161	1/2" Solenoid	-
9	Plunger to suit 12QW2 solenoid	-	G611454	3/4" Solenoid	-
	Solenoid body (3/4" thread x 1/2" barb)	3/4"x1/2"	G10162	1/2" Solenoid	-

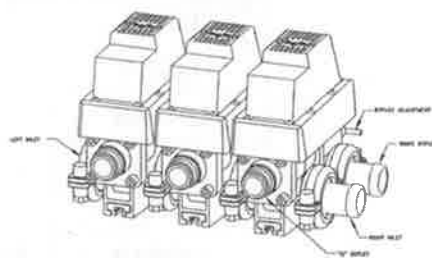
MOTORISED BALL VALVES

The motorised ball valves provide for simple and effective boom shut-off.

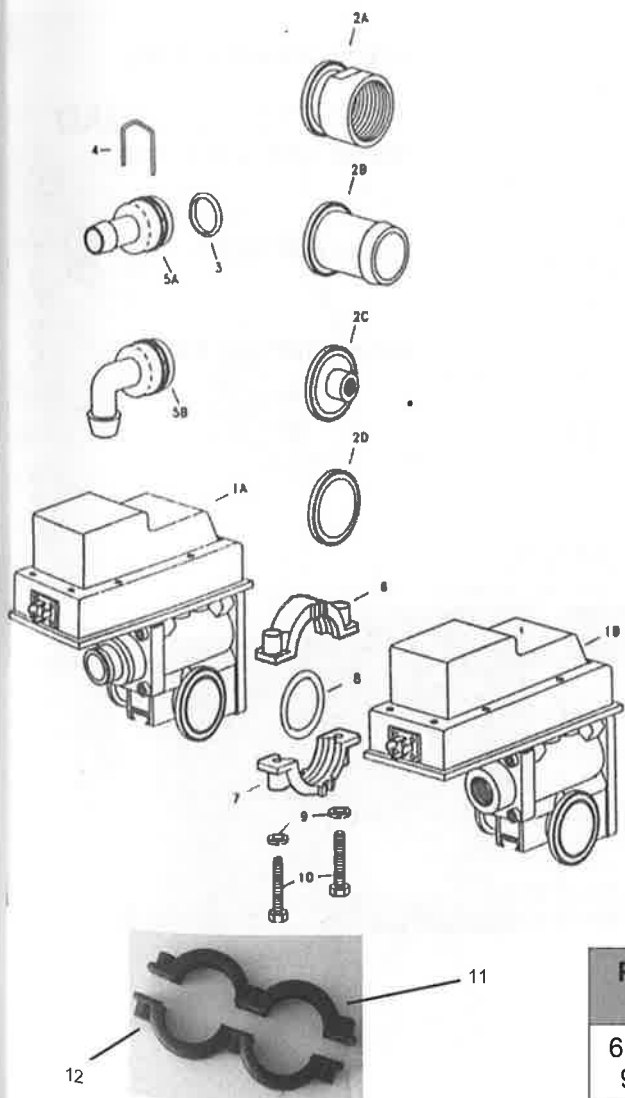
The valves are available in a two way or three way configuration. The three-way ball valves include a throttling valve for bypass when the valve is closed. This feature reduces the pressure spikes that can be experienced with a two way valve (shown below).



Model 460 two-way motorised ball valve



Model 460 three-way motorised ball valve



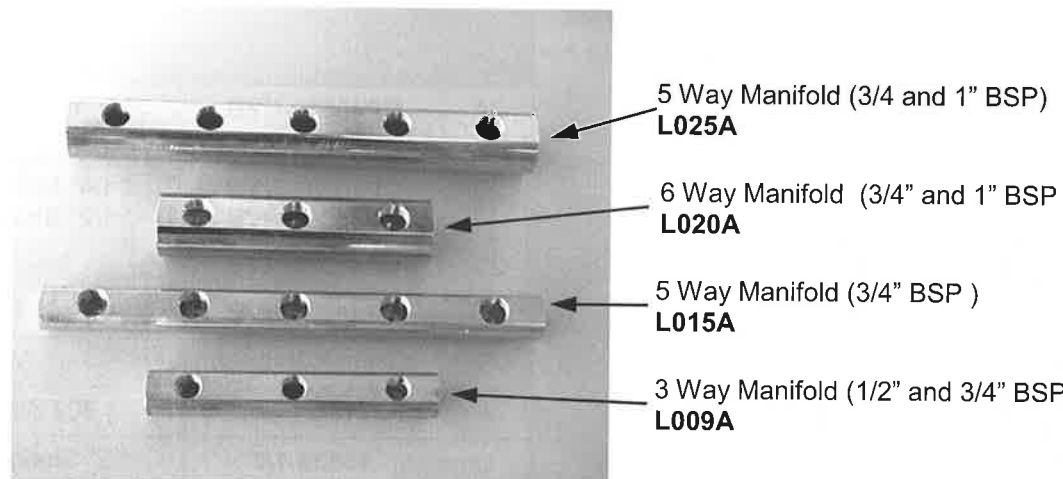
POS. NO.	PART NO.	DESCRIPTION
2A	CP45512-NYB	1 1/4" Threaded inlet
2B	CP45504-NYB CP45505-NYB CP45506-NYB	1" Straight hose barb inlet 1 1/4" Straight hose barb inlet 1 1/2" Straight hose barb inlet
2C	CP45508-NYB	1/4" Threaded inlet
2D	CP45507-NYB	Blank inlet
3	CP7717-2/120-VI	Viton o'ring
4	CP37166-1-302SS	302 Stainless steel clip
5A	45529-1/2 45529-3/4 45529-1	1/2" Straight hose barb outlet 3/4" Straight hose barb outlet 1" Straight hose barb outlet
5B	45529-90-1/2 45529-90-3/4 45529-90-1	1/2" Elbow hose barb 3/4" Elbow hose barb 1" Elbow hose barb
6	CP45515-NYB	Upper clamp (single)
7	CP45516-NYB	Lower clamp (single)
8	CP7717-2/222-VI	Viton o'ring
9	CP45520-302SS	Spring washer
10	CP37553-25-SS	Stainless steel M6 screw

KITS ALSO AVAILABLE

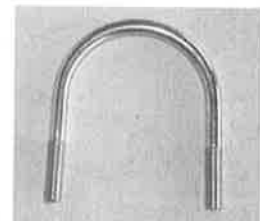
POS. NO.	PART NO.	DESCRIPTION
6, 7, 8, 9, 10	46070	Outlet clamp sub assembly (single clamp)
8, 9, 10, 11, 12	46024	Inlet clamp sub assembly (double clamp)

BRASS MANIFOLDS

PART NO	DESCRIPTION
L009A	3 Way Manifold (1/2" and 3/4" BSP)
L015AC	3 Way Manifold (3/4" BSP)
L015AD	4 Way Manifold (3/4" BSP)
L015A	5 Way Manifold (3/4" BSP)
L025A	5 Way Manifold (3/4" and 1" BSP)
L015AB	6 Way Manifold (3/4")
L030A	6 Way Manifold (1/4" and 3/4" BSP)
L020A	6 Way Manifold (3/4" and 1" BSP)
L025AB	6 Way Manifold Heavy (3/4" and 1" BSP)

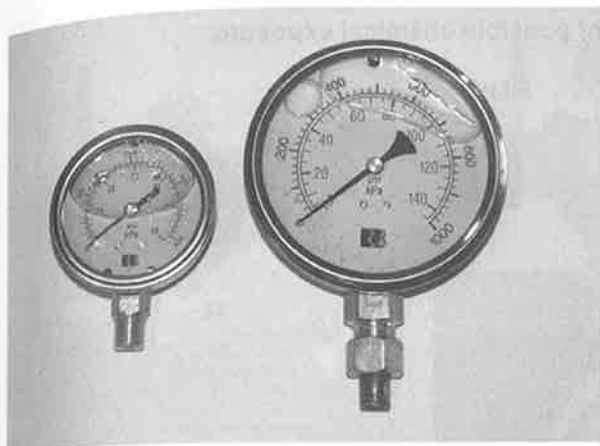
**EXHAUST CLAMPS**

SIZE	TO SUIT:	PART NO.
8mmx60x60	Manifold	FG0008
8mmx50x60	Manifold	FG0009
10mmx30x40	Cable drum	FG0010
	Cable drum U bolt bracket (stainless steel)	F70266A
1 1/4"	Stainless steel boom	C2
1 3/4"	Manifold	C6
2 5/8"	Top fill filter	C12A
3"	Hydraulic lift ram delta boom	C17



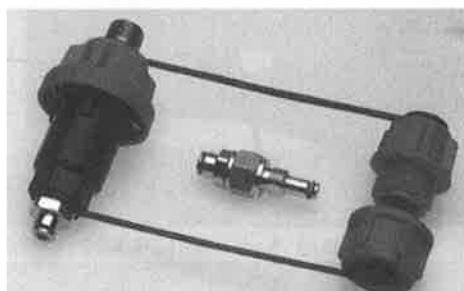
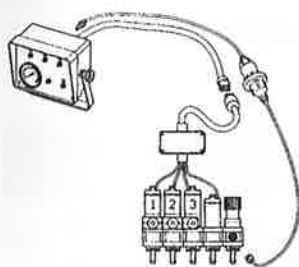
GLYCERINE FILLED GAUGES

100ml Large Face 150 psi / 1000 kPa 1/4" BSP Thread
63ml Small Face 150 psi / 1000 kPa 1/4" BSP Thread



GAUGE-SM60	60 psi
GAUGE-SM140	140 psi
1352-7634090426	350 psi
GAUGE-LG140	140 psi

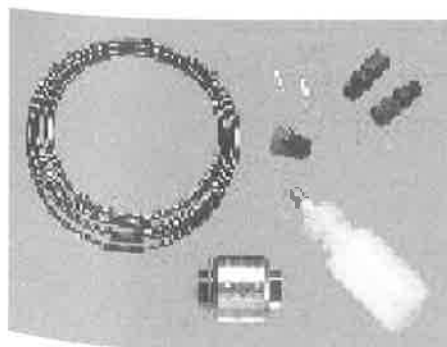
GAUGE PROTECTOR / ISOLATOR KIT



Keep chemicals out of the tractor cabin by isolating the pressure gauge. Also protects gauge from corrosive fluids. Easy to install and can be fitted directly to boom manifold or anywhere between the gauge and control valve. Pressures to 2950 kPa (430 psi).

Gauge Isolator Kit **466350**

Available in 1/4" BSP fittings to suit either 1/8" or 1/4" hydrostatic flexible tubing - please specify (see table Remote Mount Gauge Kit).



Gauge Isolator Kit

Model 23800A

The optional TeeJet Gauge Isolator Kit provides additional insurance against chemical exposure to the pressure gauge and to the operator. The isolator is mounted in the pressure gauge line outside the cab. The gauge side of the isolator requires Glycerin or ATF (automatic transmission fluid) fill.

- Mounts through a 1 3/16" (22 mm) hole in up to 14 gauge (0.078"/2 mm) material.
- Available with 1/8" or 1/4" NPT (F) connections.
- The kit includes instructions and all necessary hardware required to install the gauge isolator. Also comes with filling bottle.
- Materials exposed to chemical solutions are Viton and Acetal.

How to order:

Example: 23800A-1/8 or
23800A-1/4

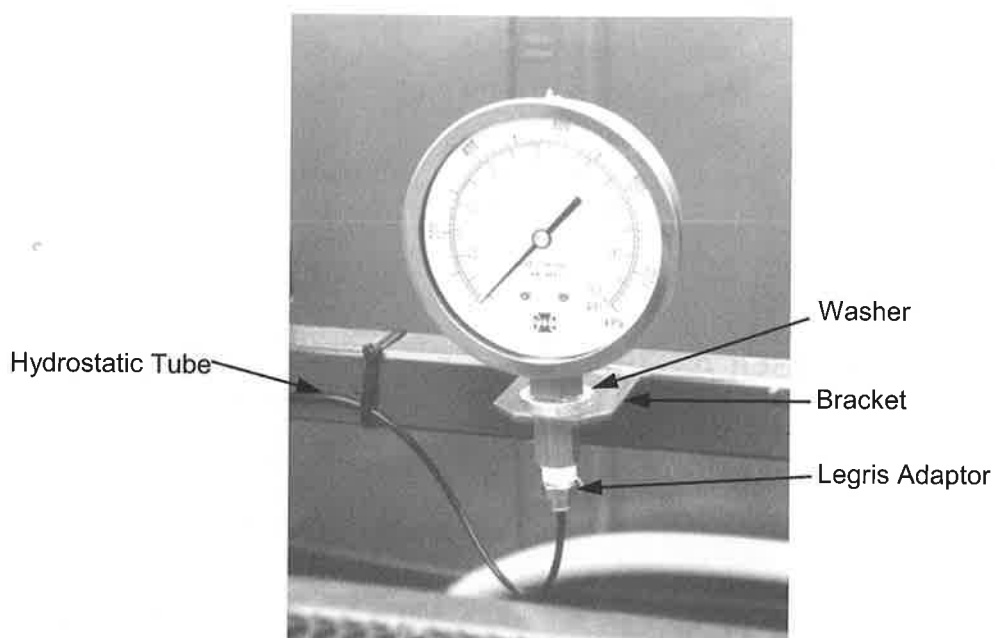
REMOTE MOUNT GAUGE KIT

The remote mount gauge kit enables the pressure gauge to be able to be placed in a position easily visible from the operating position. **Do not mount gauge inside cabin in case of possible chemical exposure.**

Remote Mount Gauge Kit Only

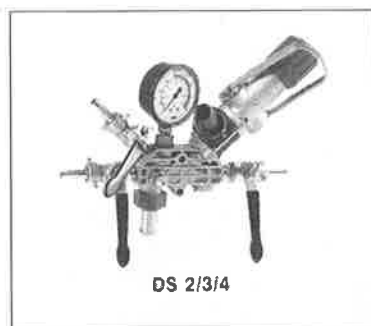
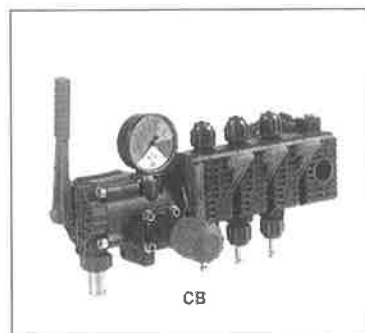
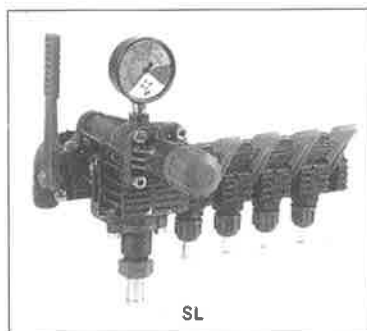
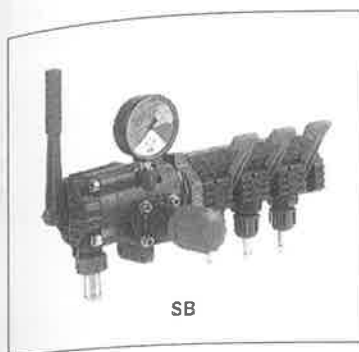
RMK

Gauge not included - add required gauge (see page 42)



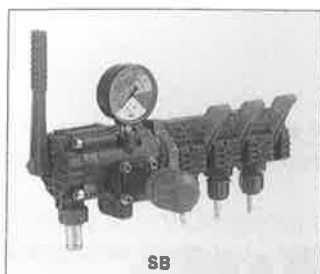
PART NUMBER	DESCRIPTION	QUANTITY
3570	Washer	1
BRK-RMK	Bracket	1
EC6-P/T 1/4	Legris Adaptor 1/4"M x 1/8" Tubing	2
E8MP-06	Hydrostatic Tube 1/8"	2M
26-1/4	Hex. Socket Female 1/4"	1

UDOR CONTROL SYSTEMS



CONTROL UNIT	DELIVERY L/MIN	PRESSURE MAX.		NUMBER OF OUTLETS	INDEPEND-ENTS	COMPENS-ATED	ANTI-DRIP SUCK BACK
SB	120	20 BAR	284 PSI	3, 4, 5, 6	*		
SL	250	20 BAR	284 PSI	3, 4, 5, 6	*		*
CB	120	20 BAR	284 PSI	3, 4, 5, 6	*	*	
DS	100	40 BAR	568 PSI	2, 3, 4	*		

UDOR CONTROL SYSTEMS

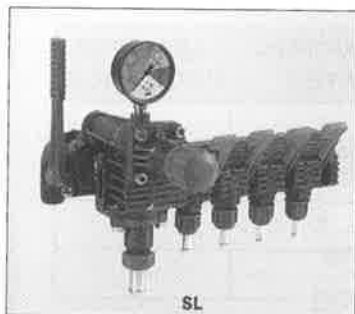
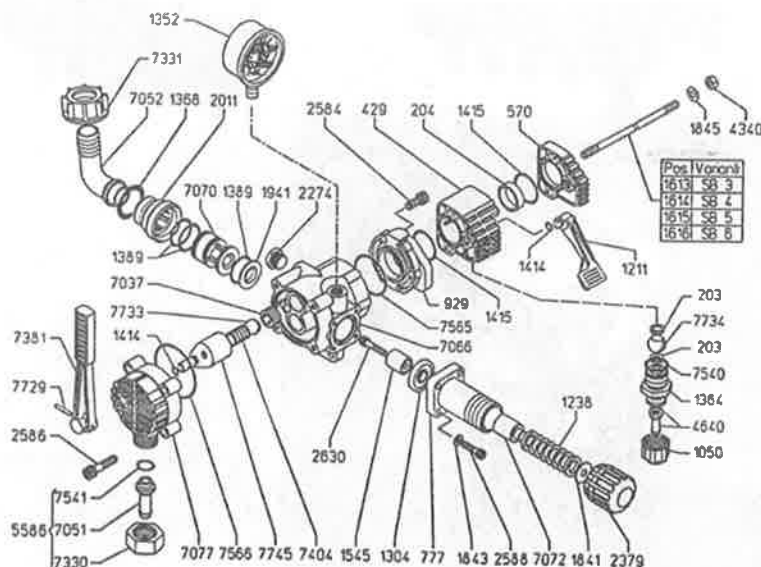


SB

SB

Udor SB control has manual pressure and boom section control including dump valve. Can handle a maximum pump delivery of 120L/min and maximum pressure of 20 bar. Available with three, four or five outlets and comes complete with gauge. Needs to be located within reach of the operator.

3-Way SB Control
4-Way SB Control
5-Way SB Control



SL

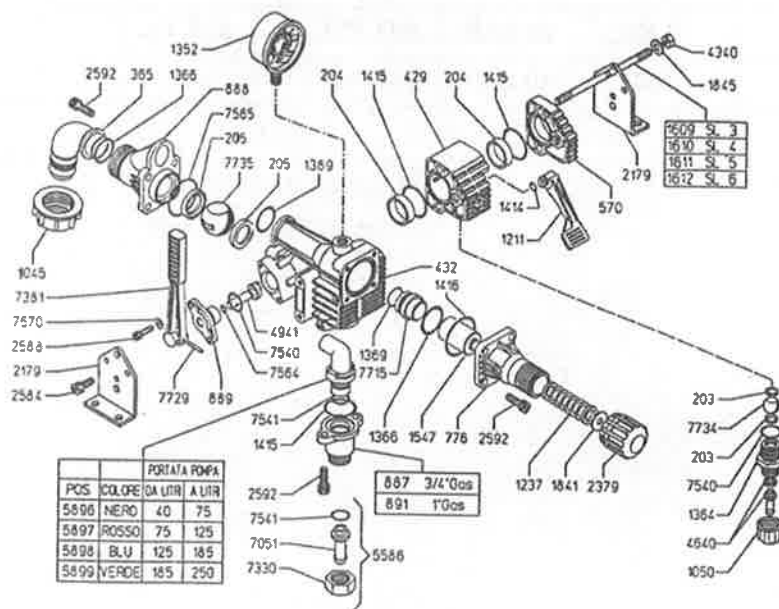
SL

Udor SL control has manual pressure and boom section control and also anti-vacuum including dump valve. Can handle a maximum pump delivery of 250L/min and maximum pressure of 20 bar. Available with three, four or five outlets and comes complete with gauge. Needs to be located within reach of the operator.

3-Way SL Control
4-Way SL Control
5-Way SL Control

SL/3
SL/4
SL/5

* For Udor control systems, quote position number as part number.



POS	COLORE	DA LITRI	A LITRI
5896	NERO	40	75
5897	ROSSO	75	125
5898	BLU	125	185
5899	VERDE	185	250

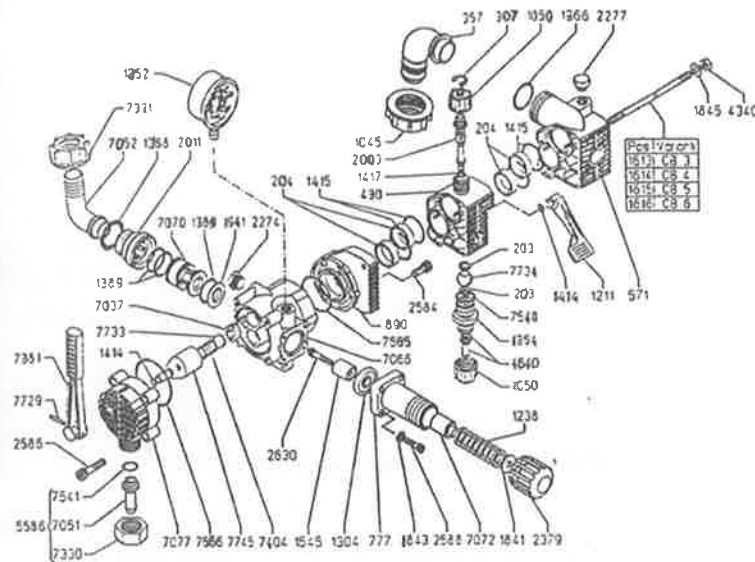
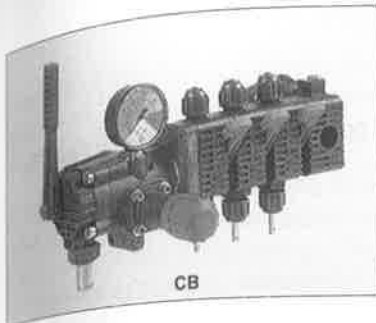
PORTATA POMPA
887 3/4"Gas
891 1"Gas

UDOR CONTROL SYSTEMS

CB

Udor CB control has manual pressure and boom section control and dump valve. Provides for constant pressure when shutting off individual boom sections. Can handle a maximum pump delivery of 120L/min and maximum pressure of 20 bar. Available with three, four or five outlets and comes complete with gauge.

3-Way CB Control **CB/3**
 4-Way CB Control **CB/4**
 5-Way CB Control **CB/5**



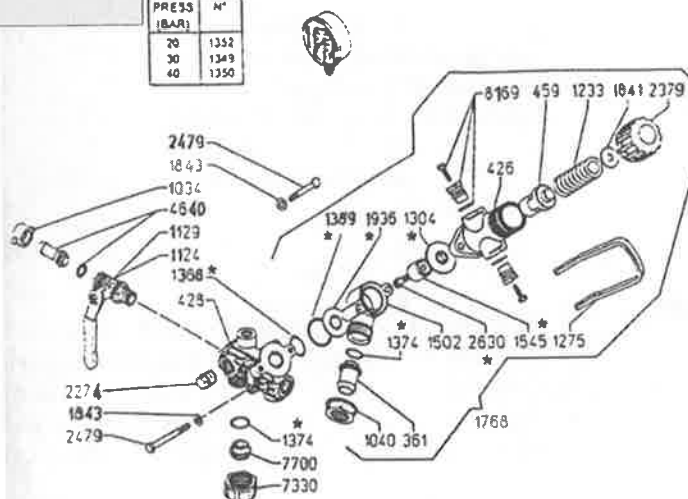
DS

Udor DS pump control has manual pressure and pump delivery outlet control and dump valve. Can handle a maximum pump delivery of 100 L/min and maximum pressure of 40 bar. Available with two or three outlets and comes complete with gauge.

2-Way DS Control **DS2**
 3-Way DS Control **DS3**



PRESS (BAR)	IN"
20	1352
30	1349
40	1350



KIT 552		KIT 554	
CODE	QTY	CODE	QTY
1304	1	1304	1
1368	1	1368	1
1370	2	1370	2
1374	2	1374	2
1389	1	1389	1
1545	1	1536	1
1938	1	3000	1
2630	1		

* Only sold in kit



Old type seat ass.

HIGH PRESSURE ORCHARD SPRAYER CONTROLS



Orchard sprayer with two section high pressure manual control valve with dump f

006001



Two way electric control for shut-off valve.

465100



Manual pressure regulating valve with electric bypass.

465005



Electric pressure regulating valve with electric bypass.

465015

Motor only

465900

MASTER OF THE GAME CONTROLS

Master of the Game Controls have been used extensively by Goldacres to provide control of the boom sections and pressure. However, MOG Controls were deleted from the Goldacres range of control options in 1994 and are no longer available.

If there is a problem with the MOG front panel (or the pressure transducer on Mark II), Goldacres operates a changeover policy. Goldacres will exchange a changeover panel for the panel to be repaired, so that there is a minimum delay for spraying. Do not send the whole control box. Unscrew the four screws that hold the front panel onto the control box, disconnect the plugs on the back of the panel and note the orientation of the dip switches. It must be established that there is a problem with the front panel and not with some other component in the system.

The normal policy is for the customer to keep the changeover panel and for Goldacres to keep the panel that was repaired, with the cost of the repair billed to the customer.

NOTE: When receiving a changeover MOG panel, make sure the dip switches are set the same as on the previous panel.



Master of the Game control panel "Mark 1"
No longer available

Please Note:

To replace Master of the Game controllers, a three way electric control system with electric pressure regulation is available. Refer page 38 part number GCBEP-3C. If speed and area are required, a TAS monitor can be added.



Master of the Game control panel "Mark II"
No longer available



PRESSURE TRANSDUCER

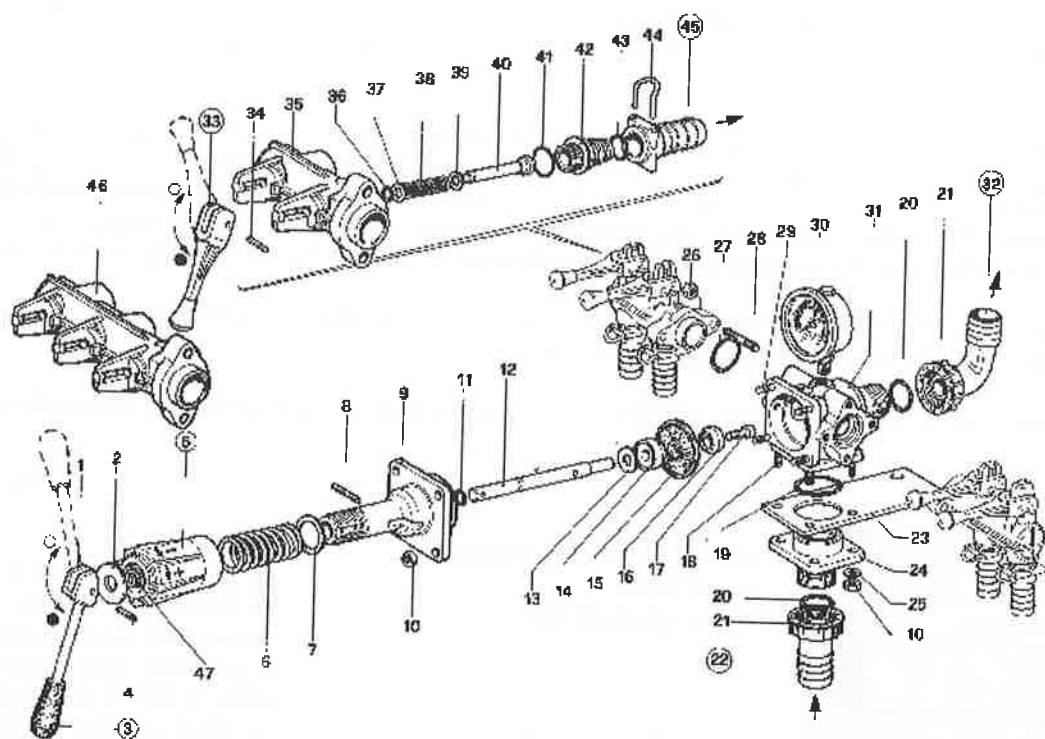
Converts liquid pressure to an electronic pressure displayed on the Mark II MOG panel. Mounted on Sprayer.
No longer available

Changeover Mark I MOG Panel
Changeover Mark II MOG Panel
Hydrostatic Tube 1/8"
Hydrostatic Joiner
Hydrostatic Adaptor

MOGCO
MOGCO
E1000-02BL
PC-1/8X1/4
PU-02(D)

No longer available

E-CONSTANT CONTROL



ECOSTANT

N. posiz.	N. d'ordine	DENOMINAZIONE	N. pezzi
1	39/225	Leva	1
2	39/248	Rondella leva	1
3	39/261	Manopola leva	1
4	39/150	Spina elastica Ø 6 X 25	1
5	39/224	Manopola regolazione verde	1
6	39/223	Molla	1
7	39/251	Rondella molla	1
8	39/197	Spina elastica Ø 6 X 40	1
9	39/221-1	Corpo molla	1
10	39/44	Dado 6 MA H 6	8
11	80/56	OR Asta	1
12	39/245	Asta	1
13	39/146	Rondella pistoncino	1
14	39/244	Pistoncino	1
15	39/74	Membrana	1
16	39/243	Valvola	1
17	68/56	Vite T.C.E.I. 6 MA X 15	1
18	39/233	Prigioniero 6 MA X 30	4
19	39/20-1	OR Flangia Ø 39,34 X 2,62	1
20	55/35	OR Girello Ø 23,81 X 2,62	2
21	55/24-2	Girello	2
22	55/21	Tubo Ø 25	1
23	39/237	Staffa	1
24	39/230-1	Flangia senza inserto	1
25	55/33-1	Rosetta Ø 6,5	4

ECOSTANT

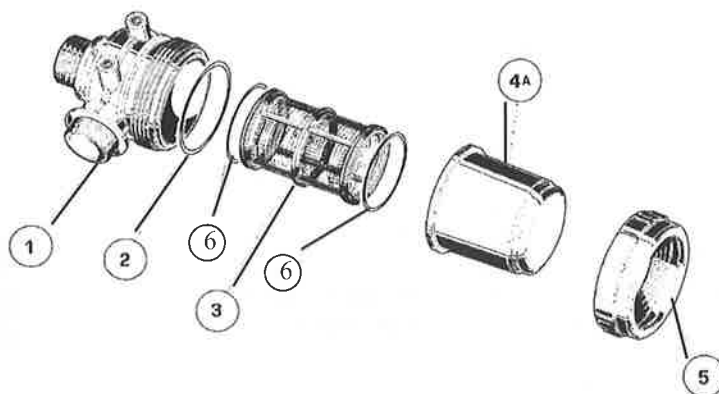
N. posiz.	N. d'ordine	DENOMINAZIONE
26	39/27	Dado 8 MA H 6,5
27	39/29	OR Rubinetto Ø 29 X 3
28	39/232	Prigioniero 8 MA X 30
29	39/222	Prigioniero 6 MA X 26
30	39/38	Manometro glicerina scala 0-25
31	39/240	Corpo principale
32	55/37	Curva Ø 25
33	39/35-1	Leva
34	39/33	Spina leva Ø 3 X 20
35	39/123	Corpo 2 rubinetti
36	39/34-1	OR Valvola Ø 5 X 2
37	39/31-2	Rosetta OR Ø 6 X 12 X 1
38	39/30	Molla
39	39/31-3	Rosetta valvola
40	39/32-3	Valvola
41	18/10-1	OR Niples Ø 17,5 X 2
42	39/260	Niples
43	64/7	OR Niples Ø 13,95 X 2,62
44	39/258	Forcella
45	39/287	Portagomma Ø 10
45	39/259	Portagomma Ø 12
45	39/262	Portagomma Ø 20
46	39/26-3	Corpo 3 rubinetti
47	80/45	Molla

GOLDACRES SUCTION FILTERS

**312 SUCTION FILTER (2 bolt)
1 1/4"**

- Polypropylene housing.
- EPDM seals.
- Flow rate: 60 l/min.
- To suit 300 & 400L linkage units and all compact sprayers pre 1996.

312053 - 50 mesh screen



POSITION	PART NUMBER	DESCRIPTION
1	310050.010	Suction filter body 1 1/4" thread
2	310000.050	Filter body O ring, 82.1x3.5
3	312003.030	Blue screen 70x150 (50 mesh)
4A	312000.020	Suction filter bowl
5	310000.040	Suction filter nut
6	312300.060	Screen O ring

314 SUCTION FILTER (3 bolt) 1 1/2"

- Polypropylene housing.
- EPDM seals.
- Flow rate: 100 to 160 l/min.

3140635 - 80 mesh
 314463 - 50 mesh and valve
 3144635 - 80 mesh and valve

Figure 1: Pre 1996 600 and 800L linkage 314

Figure 2: All linkage from 1996 314-V (with Valve)

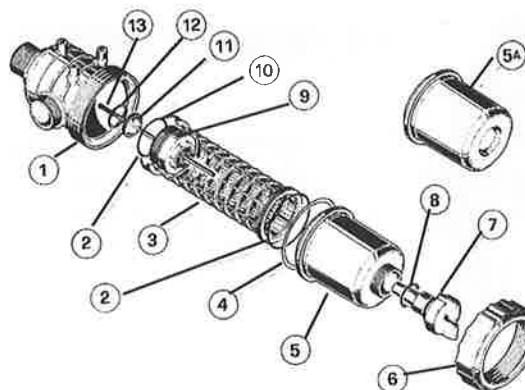
POS.	PART NUMBER	DESCRIPTION
1	314160.010	Suction filter body 1 1/2"
2	314300.060	O Ring 71.1x2.6
3	314003.030	Blue screen 80x165 (50 mesh)
3	3140035.030	Grey screen 80x165 (80 mesh)
4	314000.050	O Ring 94.6x5.3
5A	314000.020	Suction filter bowl
5	314400.020	Suction filter bowl valve version
6	314000.040	Suction filter nut
Valve version only		
7	314400.060	Bowl cap
8	462300.230	O Ring 31.0x2.5 Viton
9	314400.070	Valve body
10	460000.190	O Ring 56.8x2.6
11	314400.080	Valve plunger
12	462300.550V	O Ring 29.7x3.5 Viton
13	314400.090	Valve spring



Figure 1



Figure 2



GOLDACRES SUCTION FILTERS

316 SUCTION FILTER

- Polypropylene housing.
- EPDM seals.
- Flow rate: 160 to 220 l/min.

For Prairie, Tray Mount, Director, and 1000L and above Linkage Sprayers.

Figure 1: **316-11/2** 1 1/2"

For Orchard Sprayers.

Figure 2: **316-11/2V** 1 1/2" with Valve
316-2V 2" with Valve

- 316063** - 50 mesh (1 1/2")
- 3160635** - 80 mesh (1 1/2")
- 316073** - 50 mesh (2")
- 3160735** - 80 mesh (2")

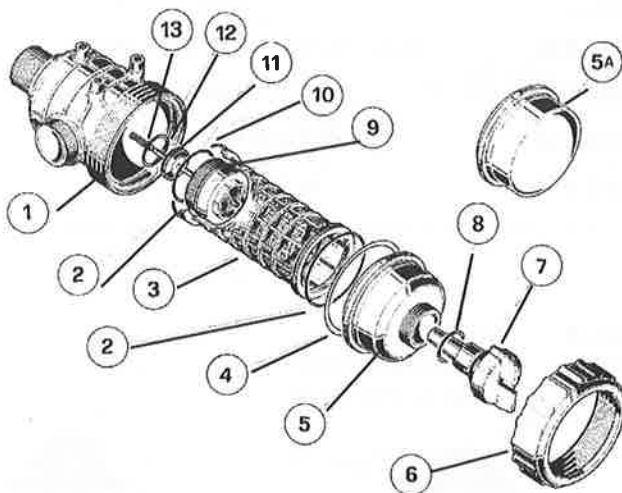


Figure 1



Figure 2



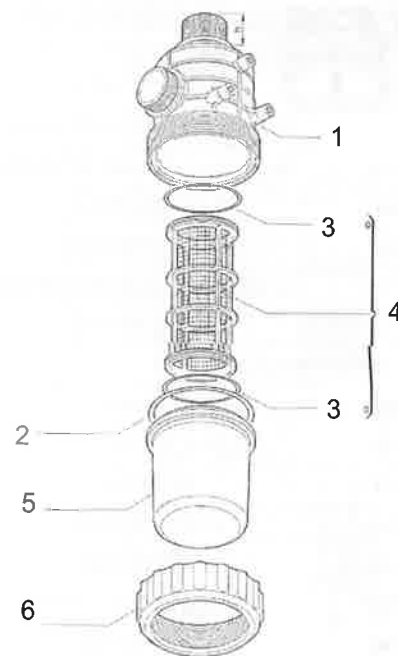
POS.	PART NUMBER	DESCRIPTION
1	316060.010	Suction filter body 1 1/2"
2	316300.060	O Ring 101.3x2.6
3	316003.030	Blue screen 106x200 (50 mesh)
3	3160035.030	Grey screen 106x200 (80 mesh)
4	316000.050	O Ring 126.4x7
5A	316000.020	Suction filter bowl
5	316400.020	Suction filter bowl valve version
6	316000.040	Suction filter nut
Valve version only		
7	316400.060	Bowl cap
8	G10052V	O Ring 39.6x3.5 Viton
9	316400.070	Valve body
10	316300.060	O Ring 71.1x2.6
11	316400.080	Valve plunger
12	G10052V	O Ring 39.6x3.5 Viton
13	316400.090	Valve spring

317 SUCTION FILTER

- Polypropylene housing.
 - EPDM seals.
 - Flow rate: 200 to 260 l/min.
- For Prairie with RO210 or RO250 pumps fitted.
317072 30 Mesh screen



POS.	PART NUMBER	DESCRIPTION
1	316070.010	Suction filter body 2"
2	316000.050	O Ring 126.4x7
3	316300.030	O Ring 104x2.62 filter cartridge
4	317002.030	White screen (32 mesh)
5	317000.020	Suction filter bowl
6	316000.040	Suction filter nut



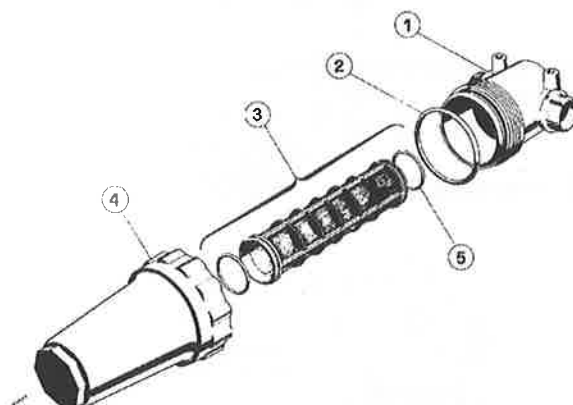
GOLDACRES PRESSURE FILTERS

328 PRESSURE FILTER 1 1/4"
(not current)

- Pressure line polypropylene filter
- Internal thread.
- Maximum pressure: 10 bar

328

1 1/4" Pressure filter



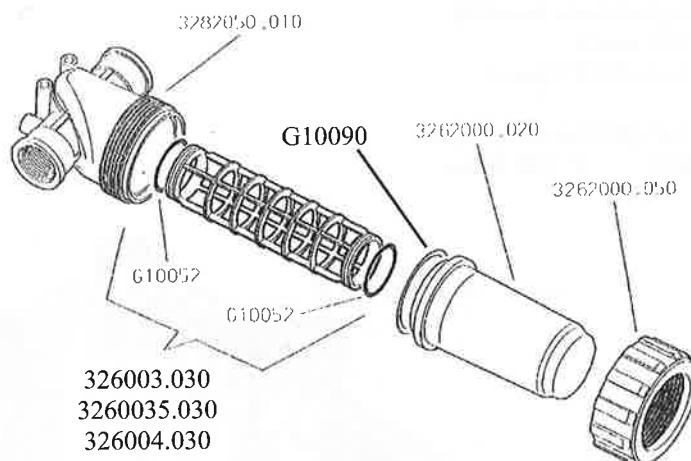
Pos No	Part No	Description
1	328050.010	In-line filter body 1 1/4" F
2	326000.040	O ring 82x5.3 large line filter body
3	326003.030	Blue screen 58x210 (50 mesh)
3	326004.030	Red screen 58x210 (100 mesh)
4	326000.020	Large in-line filter bowl
5	G10052	O ring 39.6x3.53

328 PRESSURE FILTER 1 1/4"
(current)

- Pressure line polypropylene filter.
- Internal thread.
- Maximum pressure: 10 bar.

328053 1 1/4" Pressure Filter (50 Mesh)
 3280535 1 1/4" Pressure Filter (80 Mesh)
 328054 1 1/4" Pressure Filter (100 Mesh)

PART NO.	DESCRIPTION
3282050.010	Filter Body
G10052	O Ring
G10090	O Ring
326003.030	Blue Screen 58x210 (50 Mesh)
3260035.030	Grey Screen 58x210 (80 Mesh)
326004.030	Red Screen 58x210 (100 mesh)
3262000.020	Filter Bowl
3262000.050	Retaining Nut

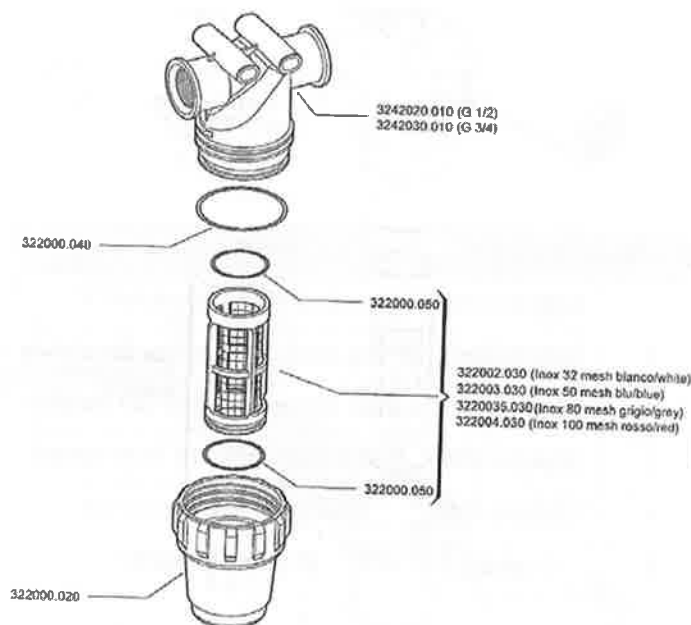


GOLDACRES PRESSURE FILTERS

324 PRESSURE FILTER 1/2"

- Pressure line polypropylene filter.
- Internal thread.
- Maximum pressure: 10 bar.

324 1/2" Pressure filter

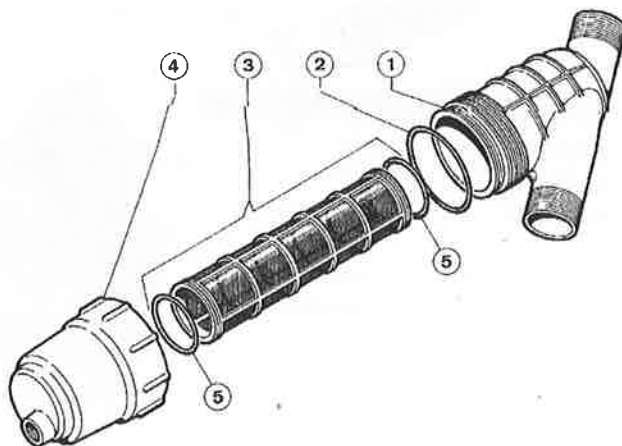


POS	PART NO.	DESCRIPTION
1	324020.010	In-line filter body 1/2"
2	322000.040	O ring 51x3.5 small in-line body
3	322003.030	Blue cartridge 38x89 (50 mesh)
3	322004.030	Red cartridge 32x89 (100 mesh)
4	322000.020	Small in-line filter body
5	322000.050	O ring 28.2x2.6

329 FILL PRESSURE FILTER

- Polypropylene housing.
- EPDM seals.
- 2" male BSP thread.

For current Prairie sprayers.
329073 2" Fill Filter



POS	PART NUMBER	DESCRIPTION
1	329070.010	Inclined filter body 2"
2	314000.050	O ring 94.6x5.3
3	329003030	Blue cartridge 70x220 (50 mesh)
4	329000020	Filter bowl
5	312300060	O ring 64.7x2.6

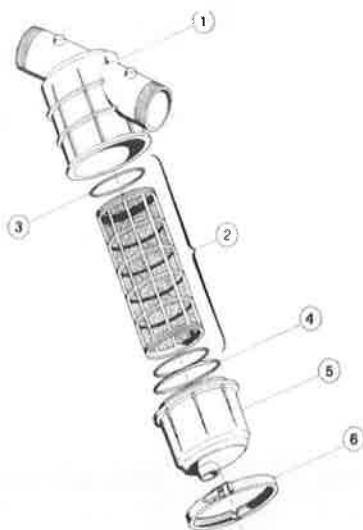
GOLDACRES PRESSURE FILTERS

**335 FILL PRESSURE
FILTER**

- Polypropylene housing.
- EPDM seals.
- 3" male BSP thread.

335093 3" Fill Filter

A large 3" filter capable of handling flow rates up to 800 litres per minute, and operate at pressures up to 8 bar.



POS	PART NUMBER	DESCRIPTION
1	335090.010	3" In line filter body
2	335003.030	3" Blue filter element (50 mesh)
3	335000.060	3" Filter element O-Ring (139 x 3.5)
4	335000.050	3" Filter bowl O-Ring (168 x 7)
5	335000.020	3" Filter bowl
6	335000.040	3" Filter flange

GEOline 2" Fill Filter

- 300 L/min flow rate
- 2" BSP male thread
- 3/4" female thread in bowl for flushing
- 50 mesh screen

8118013 2" Fill Filter

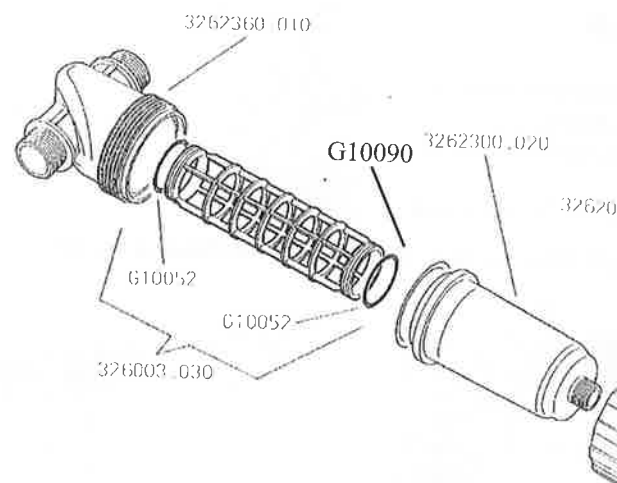
GOLDACRES FLUSH FILTERS

326 FLUSH FILTER 1 1/2"
(not current)

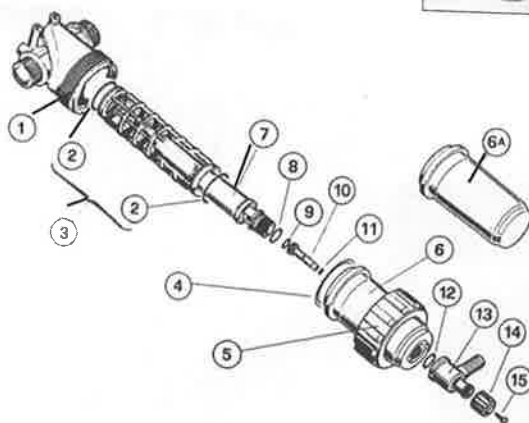
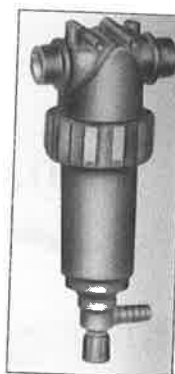
- Polypropylene housing.
- Flow rate 210 l/min at 0.4 bar.
- Maximum pressure: 15 bar.

3262363 1 1/2" Flush filter
(50 Mesh)

PART NO.	DESCRIPTION
3262360.010	Filter Body
G10052	O Ring
G10090	O Ring
326003.030	Blue Screen 58x210 (50 mesh)
3262300.020	Filter Bowl
3262000.050	Retaining Nut

**326 FLUSH FILTER**
1 1/2"

- Polypropylene housing.
 - Flow rate 210 l/min at 0.4 bar.
 - Maximum pressure: 15 bar.
- 3262163** 1 1/2" Flush filter
(50 Mesh)



POSITION NO.	PART NO.	DESCRIPTION
1	3262060.010	Line filter body 1 1/2" M
2	G10052	O Ring 39.69x3.53
3	326003.030	Blue screen 58x210 (50 M
4	G10090	O Ring 74.63x5.34
5	3262000.050	Back nut
6	3262100.020	Self-cleaning filter bowl
6A	326200.020	Pressure filter bowl
7	3262100.060	Conveyor
8	465005.140	O Ring 22.22x2.62
9	G10021	O Ring 10.78x2.62
10	3262100.080	Discharge valve plunger
11	318000.230	O Ring 6.0x3.0 Viton
12	G10051	O Ring 26.65x2.62
13	3262100.070	Discharge valve body
14	463011.091	Knob
15	V2B25F	Self threading screw 5.5x15



LINE STRAINERS

Strainer heads and bowl material available in polypropylene (PP) up to 1", and supplied with EPDM O rings. Sizes 1 1/4" and 1 1/2" available in nylon (NYB), and supplied with Buna-N O rings. Viton O rings are optional. Maximum temperatures up to 38°C.

TO ORDER: Specify strainer no., mesh size, material.

Example: AA124-1 1/4-NYB-16 Nylon

To order screen only, specify no. Example: CP15941-2

Strainer No.	Screens				Strainer Head Part Number	Bowl Part Number	O Ring Part Number	Net Weight kg	Approx. flow rate at 0.35 bar Pressure drop in L/min	Pressure Rating (bar)
	Pipe Conn.	Mesh Size	Part Number	Full Area cm ²						
AA122-1/2-PP	1/2"	30	CP23174-2	50	CP23171-1/2-PP	CP23172-PP	CP23173-EPR (Standard) CP23173-VI (Optional)	0.1	45	10
		50	CP23174-3							
		80	CP12174-4							
		100	CP23174-5							
AA124A-3/4-PP	3/4"	30	CP16903-3	109	CP16430-3/4-PP	CP15403-PP	CP7717-2-226-EPR	0.27	87	8
		50	CP16903-4							
		80	CP16903-5							
AA124A-1-PP	1"	30	CP16903-3	109	CP16430-1-PP	CP15403-PP	CP7717-2-226-EPR	0.27	129	5
		50	CP16903-4							
		80	CP16903-5							
AA124-11/4-NYB	1 1/4"	30	CP15941-2	264	CP15016-11/4-NYB	CP15017-NY	CP12291-BU CP12291-VI (Optional)	0.57	230	5
		50	CP15941-3							
		80	CP15941-4							
AA124-11/2-NYB	1 1/2"	30	CP15941-2	264	CP15016-11/2-NYB	CP15017-NY	CP12291-BU CP12291-VI (Optional)	0.57	260	5
		50	CP15941-3							
		80	CP15941-4							

Screen Mesh Openings					
Mesh size	Colour	Size of opening	Mesh size	Colour	Size of opening
16	Grey	1.1mm	100	Green	.15mm
30	Yellow	.53mm	120	Brown	.12mm
50	Red	.28mm	200	Orange	.08mm
80	Blue	.18mm			



AA122-#-PP

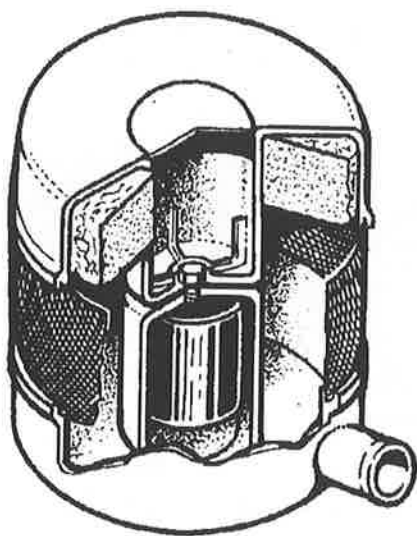


AA124A-PP
(Polypropylene)
AA124A-NYB
(Nylon)



Cut-Away View
3/4" to 1 1/2" Sizes
(Typical)

GOLDACRES FLOATING FILLING FILTER



Designed to be used when filling tank from a dam or channel. The filter draws in water just below the surface through a coarse mesh screen.

307040-FV Floating filter kit complete with foot valve attached

307040 Floating filter

504015 Foot valve 1 1/2" internal thread

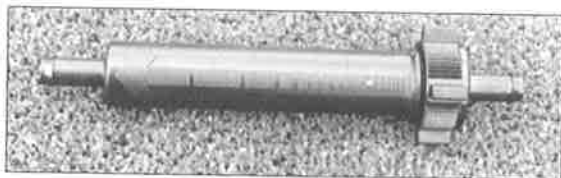


Foot Valve
504015

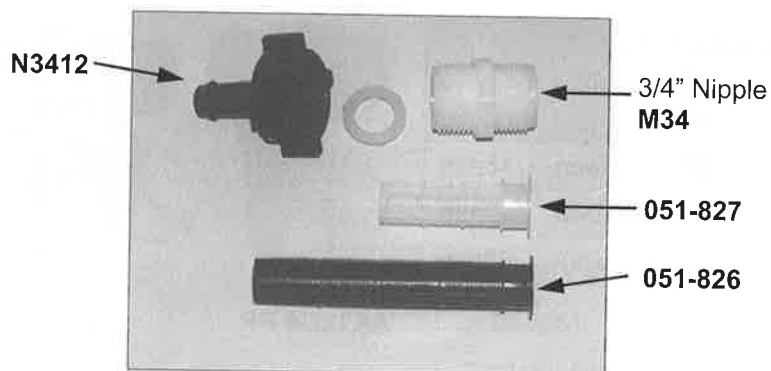
IN-LINE 1/2" FILTER

To suit 12 Volt sprayers.

1/2" In-line filter 5100659



Current Model 1/2" In-line filter



TeeJet® NOZZLE FILTERS

TEEJET® STRAINERS
with VisiFlo® colour-
coding.

Nylon slotted and polypropylene wire mesh strainers are colour-coded for easy identification of strainer mesh size.

Mesh Size	Colour Code
16	Grey
24	White
25	Yellow
50	Red
80	Blue
100	Green
200	Orange

TEEJET® STRAINERS



19845-PP

Strainer protects spray tip orifice from clogging and damage. Stainless steel screens in 24, 50, 100 and 200 mesh. Polypropylene screens available in 25 and 50 mesh only.

TeeJet Strainer Number	Strainer Body & Cap Material	Mesh Screen Material
5053*	Brass	Stainless Steel
8079-PP*	Polypropylene	Stainless Steel
5053-AL*	Aluminum	Stainless Steel
6051-SS*	Stainless Steel	Stainless Steel
19845-PP*	Polypropylene	Polypropylene

* Specify mesh size when ordering

*** Please note:** Strainer 8079-PP# is used as standard on Goldacres sprayers. Need to determine what mesh size is required for relevant tip size.

TeeJet® Slotted Strainers

One-piece strainers for use with liquids containing suspended solids.



TeeJet Strainer Number	Available Material	Equivalent to Mesh Size
4514-*-10	Brass or Nylon	50
4514-*-20	Brass, Aluminum or Nylon	25
4514-*-32	Brass, Aluminum or Nylon	16

* Above numbers for brass. For nylon add "NY". For aluminium add "AL".

No. 4067SS# TeeJet® Cup Strainers



Stainless steel construction. Choice of 50, 100 and 200 mesh screens.

No. 4193A TeeJet® Strainer & Check Valve

Minimises nozzle dripping, fits all TeeJet® nozzles. Ball check opens at 0.35 bar. Recommended for flow rates up to 3 L/min. 24, 50, 100 and 200 mesh screens.



Note: Use of these ball check valves results in a pressure drop of 0.35 - 0.7 bar depending on spring rating.

Check Valve Number	Body and Cap Screw Material	Mesh Screen Material
4193A- * - *	Brass	Stainless Steel
4193A-AL- * - *	Aluminum	Stainless Steel
4193A-SS- * - *	Stainless Steel	Stainless Steel
4193A-PP- * - *	Polypropylene	Stainless Steel

* When ordering, specify spring rating and screen mesh size.

No. 11750 TeeJet® Check Valve

For larger capacity TeeJet® nozzles where strainers are not required. Ball check opens at 0.35 bar, 0.7 bar spring also available. Recommended for flow rates from 1.5 to 5.7 L/min. Made in choice of stainless steel, brass, aluminium or polypropylene with stainless steel ball and spring.



GOLDACRES EXACTA FOAM MARKERS

Goldacres Exacta Foam Markers are equipped for remote operation with the compressor box mounted on the sprayer. Foam is made in a foam generator which is mounted on the boom.

EX25S	25L Single sided
EX25D	25L Double sided
EX50S	45L Single sided
EX50D	45L Double sided
EX100S	100L Single sided
EX100D	100L Double sided
EX180D	180L Double sided

NOTE: PLEASE SPECIFY SIZE OF BOOM WHEN ORDERING

GOLDACRES STANDARD FOAM MARKERS

The foam is generated in the foam tank. The compressor box is mounted within easy reach of the operator for manual on/off operation.

STD25-12S	Single sided 25L for 12M
STD50-12S	Single sided 50L for 12M
STD25-12D	Double sided 25L for 12M
STD50-12D	Double sided 50L for 12M
SOLVREMS	Switch for Remote Operation - Single sided
SOLVREMD	Solenoid valves & control box for Remote Operation - Double sided
EXCONV-M	Standard manual foam marker to Exacta foam conversion kit
EXCONV-R	Standard remote foam marker to Exacta foam conversion kit

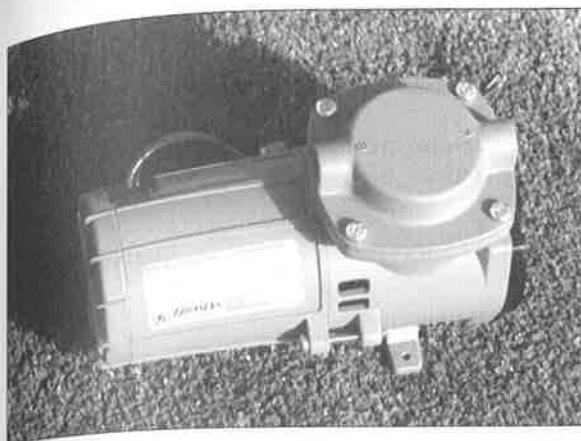
GOLDACRES FOAM CONCENTRATE

Available in 5 Litre and 20 Litre containers.

FOAM	5L Foam concentrate
FOAM20	20L Foam concentrate



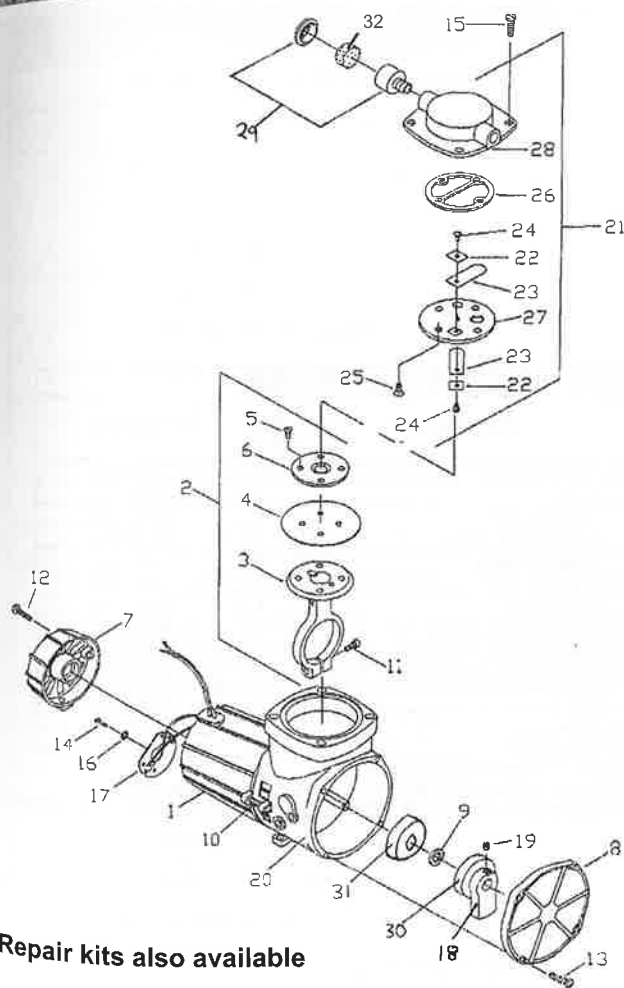
GOLDACRES FOAM MARKER COMPRESSOR



This compressor was used for both the Exacta and Standard foam markers .

107CDC20

Bare compressor



Repair kits also available

KIT NO.	PARTS INCLUDED	DESCRIPTION
650293	4, 23 (X2), 32, 26, 15 (x4), 22 (x2), 25 (x4), 24 (x2), 27	Service kit comprising diaphragm, flapper valves, gasket and screws.
660873	28, 4, 23 (X2), 26, 22 (x2), 25 (x4), 24 (x2), 27	Head assembly, comprising valve plate, head, flapper valves and screws.

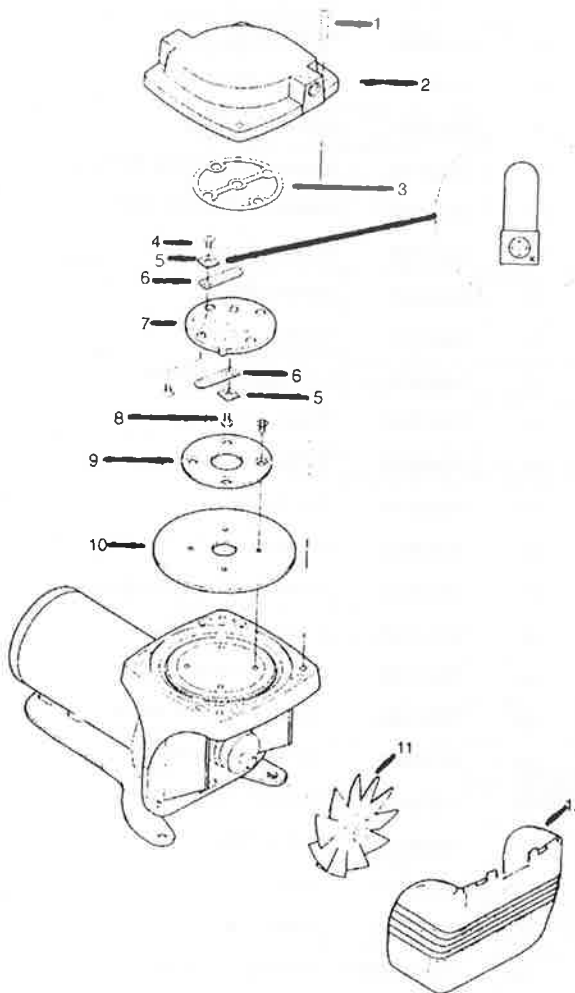
POS. NO.	PART NO.	DESCRIPTION
1	T602492	Stator Winding
2	T607180	Connecting Rod Assy
3	T607139	Connecting Rod
4	T608148	Diaphragm
5	T625540	Screw - Hold Down Plate
6	T654649	Hold Down Plate
7	T614381	Motor End Cap Assy
8	T614608	Front Cover
9	T615403	Spacer - Eccentric
10	T625058	Screw - Housing
11	T625114	Screw - Connecting Rod
12	T625260	Screw - Motor End Cap
13	T625266	Screw - Front Cover
14	T625407	Screw - Brush
15	T625444	Screw - Head
16	T626516	Lockwasher - Brush
17	T627096	Brush Assembly
18	T645374	Eccentric Drive Lever
19	T625244	Set Screw
20	T660662	Housing
21	T660873	Head & Valve Plate Assy
22	T617045	Valve Keeper Strip
23	T621102	Flapper Valve
24	T625160	Screw - Flapper Valve
25	T625606	Screw - Valve Plate
26	T633439	Gasket - Valve Plate
27	T654129	Valve Plate
28	T660131	Head
29	T660763	Filter
30	6002-2RS1	Bearing - Cam Assy
31	6201Z-8MM	Bearing - Motor Assy
32		Breather

GOLDACRES FOAM MARKER COMPRESSOR



22DI-P103-KGB Gast bare compressor

Compressor no longer available, parts still available, see below.



PARTS ORDERING INFORMATION

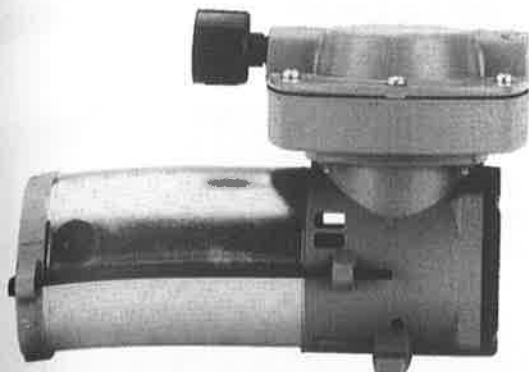
Ref. No.	Description	Part Qty	Model#
1	Head Screws	4	SCR1001
2	Head	1	HDC1003
♦3	Head Gasket	1	ACC1018
♦4	Intake Valve Screw	1	SCR1017
♦5	Retainer Valve	2	AF795
♦6	Valve	2	AF819A
7	Valve Plate	1	VPL1003
♦8	Exhaust Valve Screw	1	SCR1015
9	Retainer Plate	1	RPL1001
10	Diaphragm (Neoprene mat'l)	1	DPH1001
11	Fan	1	ACC1001
12	Grille	1	CVR1001
	Service Kit	1	K707

♦ Denotes parts included in the Service Kit.

Parts listed are for stock models. For specific OEM models, consult the factory.

When corresponding or ordering parts, please provide complete model and serial number.

GOLDACRES SUPA EXACTA FOAM MARKER COMPRESSOR

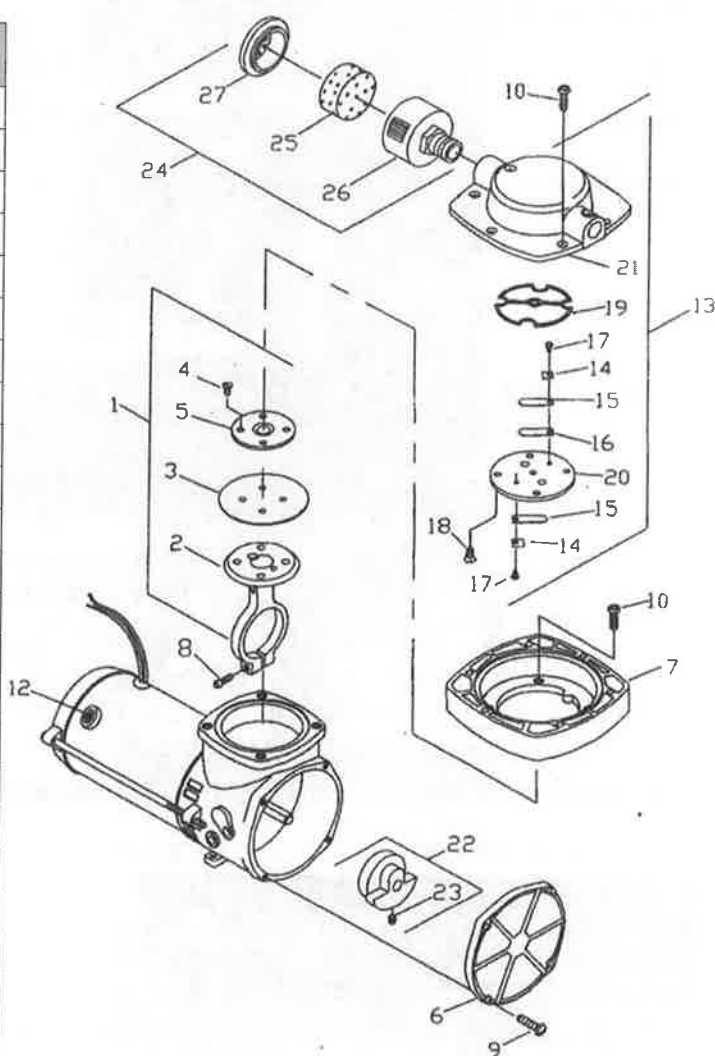


This compressor is used for the **Supa Exacta** foam markers .

910CDC22/12

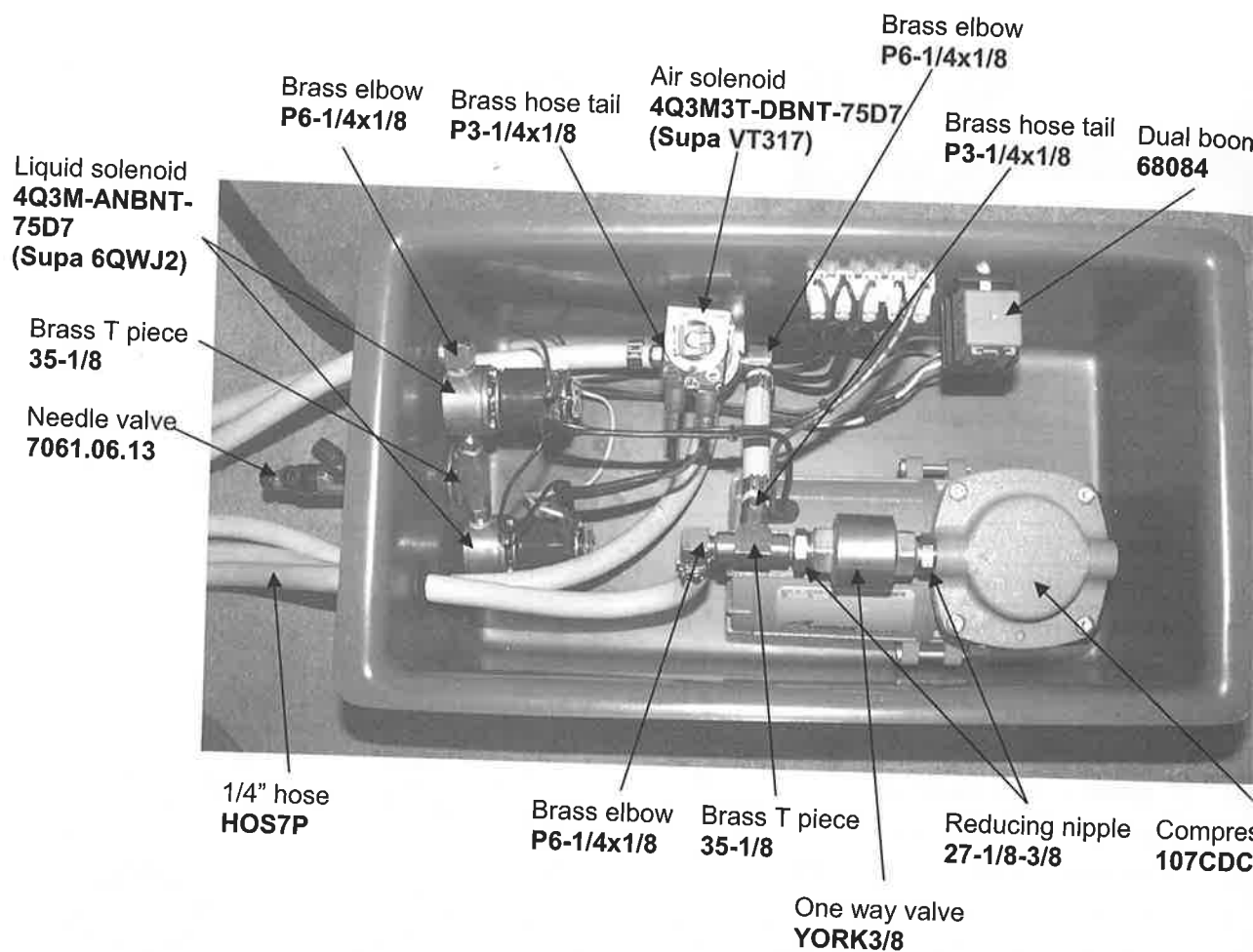
Bare compressor

POS. NO.	PART NO.	DESCRIPTION	Qty
1	607476	Connecting rod assembly	1
2	607153	Connecting rod	1
3	608150	Diaphragm	1
4	625540	Screw—Hold down plate	4
5	654966	Hold down plate	1
6	614608	Front cover	1
7	624454-504	Head adapter	1
8	625114	Screw—Connecting rod	1
9	625266	Screw—Front cover	4
10	625444	Screw—Head and Adapter	10
11	627166	Brush (not shown)	2
12	627167	Brush holder cap	2
13	669374-504	Head & Valve plate assembly	1
14	617045	Valve keeper strip	2
15	621102	Valve flapper (intake & exhaust)	2
16	621502	Valve flapper (Plastic)	1
17	625448	Screw—Valve flapper	2
18	625606	Screw—Valve plate	5
19	633560	O ring	1
20	662157	Valve plate	1
21	661661-504	Head	1
22	667375	Eccentric & Bearing assembly	1
23	625244	Set screw—Eccentric	1
24	660587	Filter assembly	1
25	641010	Filter	1
26	660776	Filter body	1
27	660803	Filter body cap	1



EXACTA FOAM MARKER COMPONENTS

THE COMPRESSOR/DIVERTER UNIT:



When ordering a replacement compressor, please note whether the compressor is a GAST or THOMAS compressor.



Compressor Box complete	107CDC20-EX
Foam marker compressor	107CDC20
Box only	FOAMBOX

EXACTA FOAM MARKER COMPONENTS

VEHICLE MOUNTED CONTROL BOX



- Exacta foam control box **EXCC**
Dual boom **EXCC-DUAL**
- On/Off/On switch **5586B**
- On/Off switch **ST25B**
- Alligator clips **P304**
- 7 Pin plug **B51B**

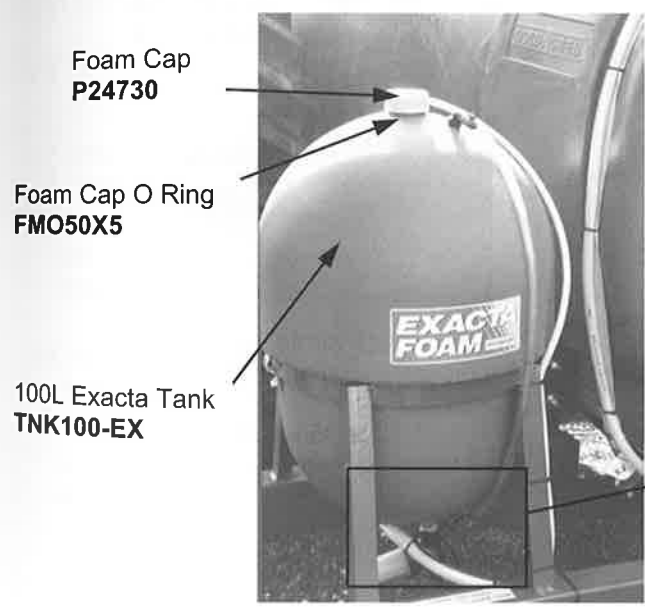


Compressor Filter
362-12

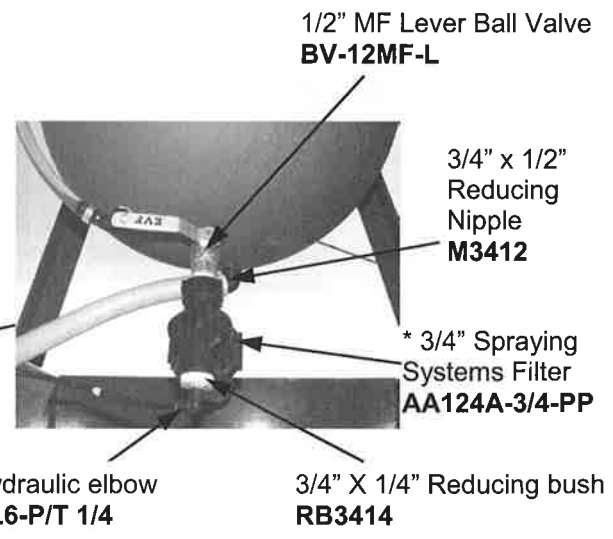


Filter Cartridge
A245-CART

100 LITRE EXACTA FOAM TANK



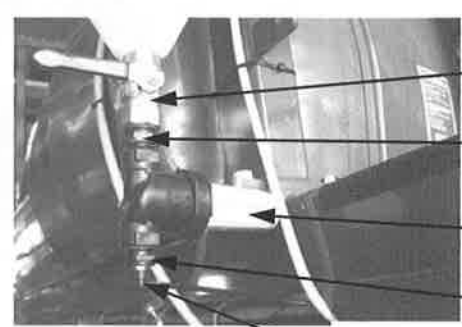
- Foam Cap **P24730**
- Foam Cap O Ring **FMO50X5**
- 100L Exacta Tank **TNK100-EX**



- 1/2" MF Lever Ball Valve **BV-12MF-L**
- 3/4" x 1/2" Reducing Nipple **M3412**
- * 3/4" Spraying Systems Filter **AA124A-3/4-PP**
- 3/4" X 1/4" Reducing bush **RB3414**
- Hydraulic elbow **EL6-P/T 1/4**

Diagram of parts beneath foam marker tank on Prairie Special sprayer.

* Filters are fitted with 200 mesh screens. CP16903-7-SSPP



- 1" FF Lever Ball Valve **25-090**
- 1" x 3/4" Reducing Nipple **M10034**
- * 3/4" Spraying Systems Filter **AA124A-3/4-PP**
- 3/4" X 1/4" Reducing nipple **M3414**
- Hydraulic elbow **EL6-P/T 1/4**

EXACTA FOAM MARKER COMPONENTS

The Exacta foam marker produces foam in the foam generator which is located 4 metres from the end of the



Foam generator **FGEN** Foam generator brackets **FGEN-BRK**

The control valve (needle valve) is used to vary the amount of liquid used to produce the foam. This serves to alter the density of the foam to suit appropriate conditions.



1/4" Needle Valve
7061.06.13

Exacta foam marker accumulator complete
ACC-GCOM

Consisting of:



Exacta foam marker accumulator
(green)
ACC-GBARE



Exacta foam marker bracket
ACC-BR-EX



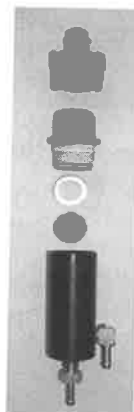
Foam marker accumulator elbow
118319

50 x 6 bolt
M6X50

6mm Nyloc nut
NN6



Dual boom and accumulator
protector
DUAL-PRA
Please state 35mm RHS or
40mm aluminium



3/4" Nut and tail **N3**

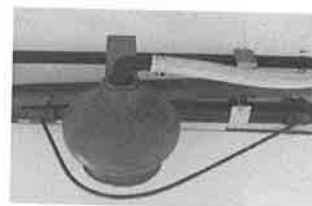
3/4" Nipple **M34**

Foam generator bracket
washer **FGEN-BW**

Foam generator screw
FGEN-SC



Quick coupling
elbows
EL6-P/T 1/8
EL6-P/T 1/4



Accumulator protector
bracket, including 2 bolts.
ACC-PR
Please state 35mm RHS
or 40mm aluminium



Dual boom protector
DUAL-PR
Please state 35mm RHS or
40mm aluminium

EXACTA FOAM MARKER DIRECT INJECTION

The Exacta foam marking system with Direct Injection is a variation of the Exacta foam marker with the added feature of the foam concentrate and water being contained in separate tanks. The foam concentrate is then injected directly into the water line to form the foam liquid and then this foam liquid is mixed with air in the foam generator out on the boom. The foam is then forced under pressure out of the foam generator to the accumulator at the end of the boom.

Both the foam concentrate tank and foam water tank is pressurized from system backpressure. A needle valve in the foam concentrate line restricts the amount of concentrate used to a constant rate. A control valve (needle valve) is used to vary the amount of water being delivered which enables variability in the foam composition to suit appropriate spraying conditions.

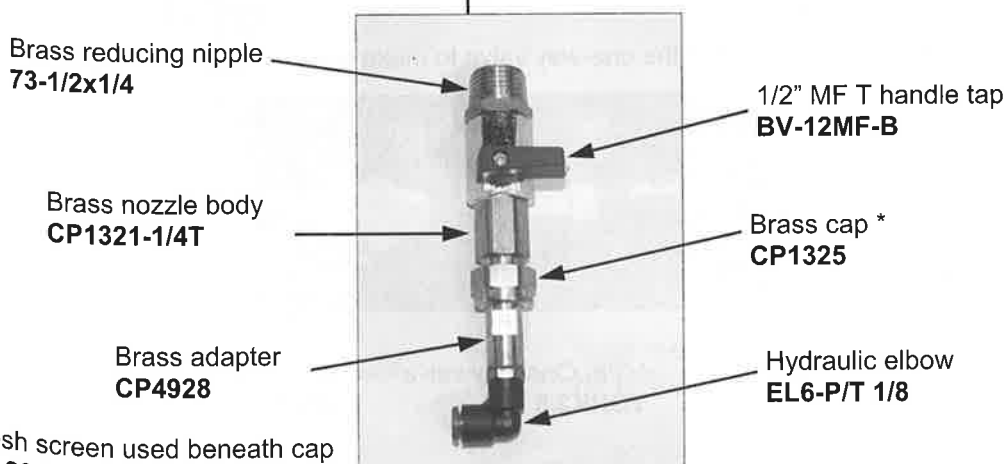
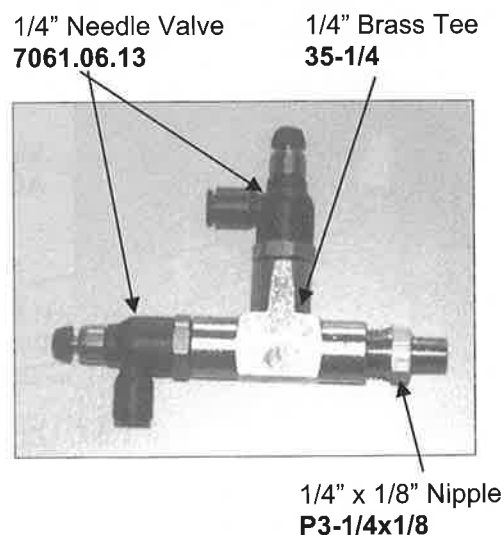
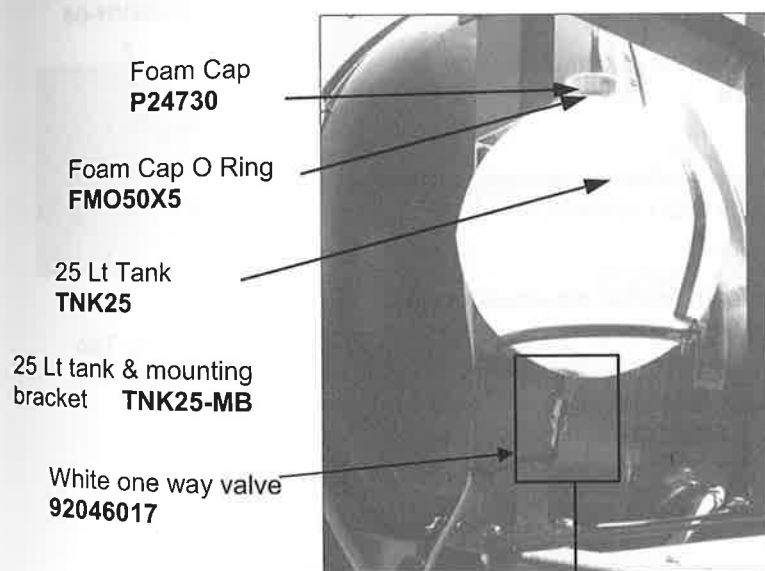
The foam is generated in the foam generator, which is situated on the boom, and then the foam is forced out to the foam accumulators and out on the ground. This results in production of foam of a high level of consistency and with a short lead time between starting the foam marker and foam coming out of the accumulator.

Included in the Exacta foam marker direct injection kit is:

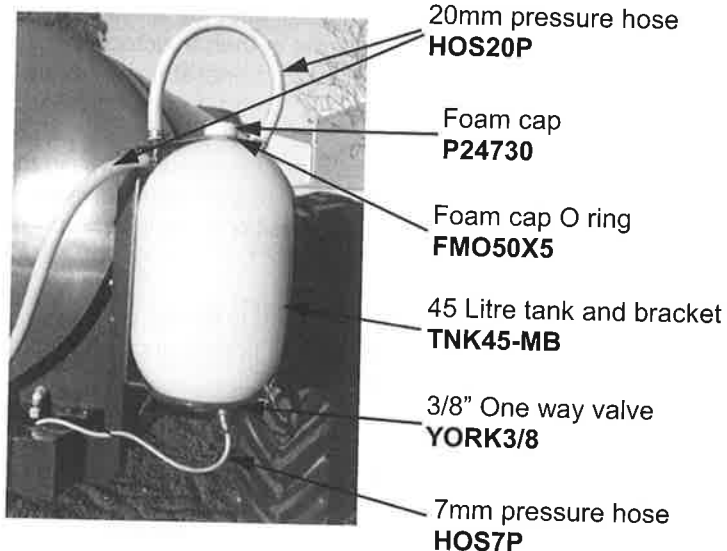
25 Lt tank and bracket, flow regulator needle valve assembly and all necessary hoses and fittings.

Exacta Foam Marker Direct Injection Kit

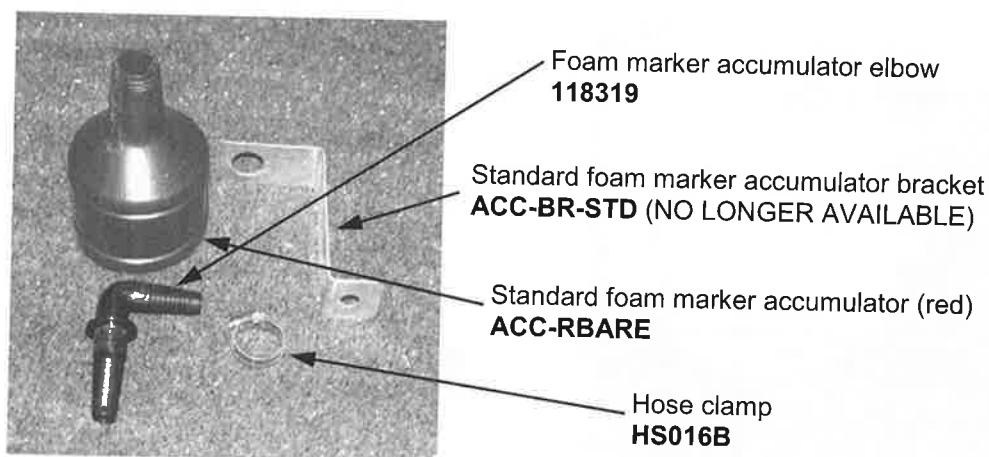
EXA25



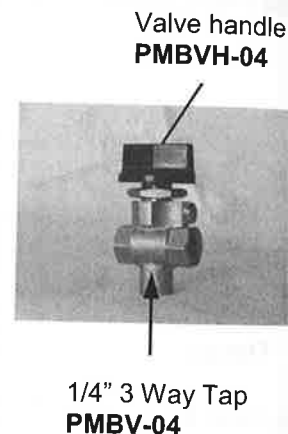
* 200 mesh screen used beneath cap **8079-PP-200**

STANDARD FOAM MARKER COMPONENTS

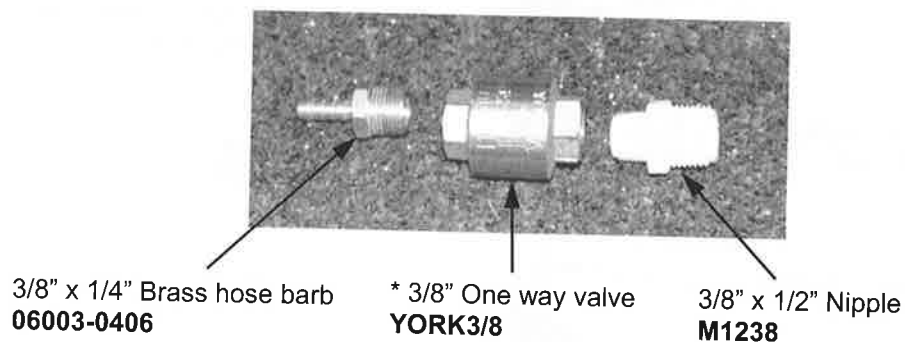
Standard foam marker compressor control
Control Box Complete **107CDC20-STD**
Box Only **FOAMBOX**



Standard foam marker
accumulator complete
ACC-RCOM



It is important to regularly check the condition of the one-way valve to make sure it is clean and functioning correct



* 1/2" One way valves also available **YORK1/2**

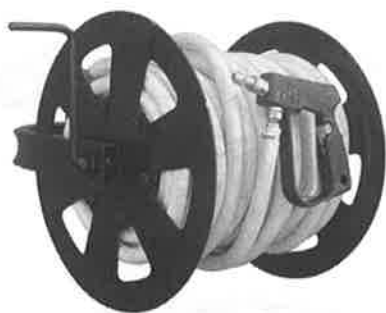
HEAVY DUTY HOSE REELS

This is the hose and reel for the professional user. It is heavy duty construction and coated for long life.

20M hose reel available with 12mm inside diameter chemical resistant hose.

50 and 100M hose reels available with nylon 11 tubing which is light and easy to manage in the long lengths. This 12mm outside diameter hose (approximately 10mm inside diameter) is resistant to all the chemicals commonly used in Australia and is kink resistant.

20M Hose reel	HR-20
50M Hose reel	HR-50
100M Hose reel	HR-100
Bare reel	HR-BARE



20M Hose Reel and AA30L GunJet



50M Hose Reel and AA30L GunJet

PLEASE NOTE:

GUNJETS FOR HOSE REELS ARE NOT INCLUDED WITH THE ABOVE REELS. PLEASE ORDER THE GUN OF YOUR CHOICE FROM THOSE LISTED IN THIS CATALOGUE.

HOSE REEL ACCESSORIES



Hose reel swivel mounting bracket
HR-SMB

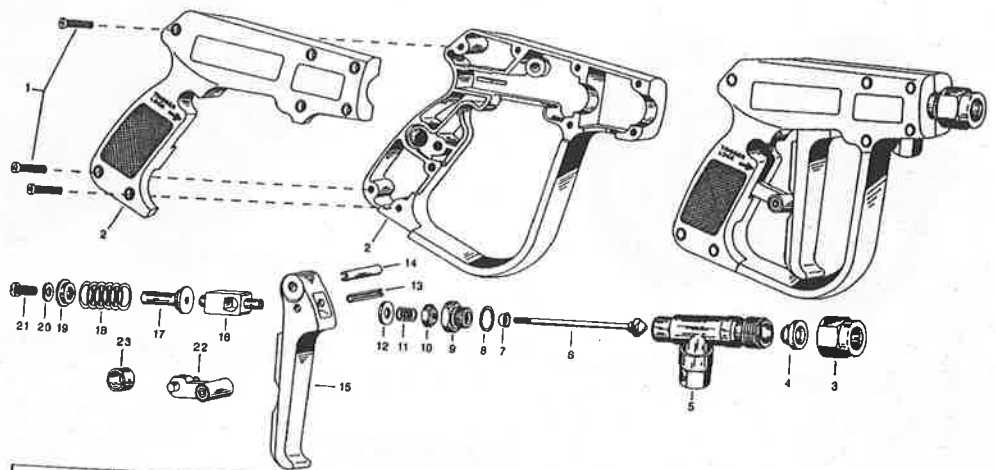
Previous model hose reel handle available.



Hose reel handle.
HP19/NL

GunJet®**AA30L LOW PRESSURE SPRAY GUN****AA301/4**

- ~ Flow rates up to 19 L/min.
- ~ Maximum operating pressure of 17 bar.
- ~ Outlet connection is 11/16" - 16 TeeJet thread.
- ~ Inlet connection is 1/4" (F) BSPT.
- ~ Body and trigger moulded of tough nylon.
- ~ Brass extension available (refer Extension Table).
- ~ Accommodates all interchangeable TeeJet® spray tips though use with 5500 adjustable conejets is recommended (refer Adjustable Conejet table).

AA30-1/4 AA30L Low Pressure Spray Gun

ITEM	PART NO.	DESCRIPTION
1	CP17103-IZP	Zinc-Plated Steel Screw
2	CP19684-1-NYB	Right and Left Hand Nylon Housing Set
3	CP7890-INP	Nickel-Plated Steel Cap
4	CP7490-BRTF	Brass and Teflon Valve Seat Assy.
5	CP22136	Brass Inlet Body
6	CP22137-BR302S	Brass and Stainless Steel Stem Assy.
7	CP14255-1-BU	Buna Packing Cup
8	CP19812-AL	Aluminium Gasket
9	CP19811	Brass Packing Screw
10	CP7484-INP	Nickel-Plated Steel Stem Nut
11	CP7489-SS	Stainless Steel Trigger Stop Spring
12	CP7622-IZP	Zinc-Plated Steel Washer
13	CP17720-420SS	Stainless Steel Roll Pin
14	CP19820-420SS	Stainless Steel Roll Pin
15	CP17703-FRP	Fibreglass Reinforced Polyester Trigger
16	CP19810	Brass Trigger Guide
17	CP19815	Brass Spring Guide
18	CP22138-302SS	Stainless Steel Spring
19	CP19816	Brass Spring Retainer
20	CP19819-SS	Stainless Steel Washer
21	CP19818-IZP	Zinc-Plated Steel Screw
22	CP19806-FRP	Fibreglass Reinforced Polyester Trigger Lock
23	CP19805-CE	Celcon Lock Spring Ring

AB30L-KIT AA30L GunJet Repair Kit

EXTENSIONS FOR AA30L SPRAY GUN (Straight with Fixed Body)

EXTENSION TYPE AND NO.	EXT. LENGTH (mm)	NET WEIGHT (kg)
7715-8	203	0.09
771518	457	0.11
771524	610	0.14
771530	762	0.16
771536	914	0.18
771548	1219	0.21

ADJUSTABLE CONEJETS

The adjustable brass Conejet nozzle rotates through a half turn to provide spray selection from wide angle, finely atomised cone spray to a straight stream spray. Tip settings "A" and "B" represent two extreme points of rotation in tip adjustment.



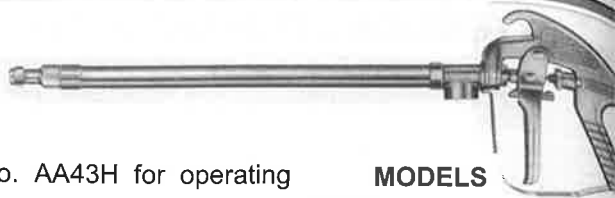
Adjustable ConeJet Tip No.	Performance	Liquid Pressure (kPa)							
		150		200		300		400	
		A	B	A	B	A	B	A	B
5500 - X18	Capacity (l/min)	0.79	2.6	0.98	3.2	1.1	3.7	1.4	4.5
	Spray Angle (deg)	71	-	75	-	77	-	78	-
	Max. Throw (m)	1.2	11.5	1.2	12.5	1.2	12.8	1.2	12.8
5500 - X22	Capacity (l/min)	0.95	3	1.2	3.7	1.5	4.7	1.8	5.5
	Spray Angle (deg)	71	-	75	-	78	-	79	-
	Max. Throw (m)	1.2	11.9	1.4	12.5	1.5	12.8	1.5	12.8
5500 - X26	Capacity (l/min)	1.1	3.6	1.4	4.5	1.7	5.5	2.1	6.7
	Spray Angle (deg)	72	-	76	-	78	-	79	-
	Max. Throw (m)	1.4	12.2	1.5	12.8	1.5	13.1	1.7	13.1

SPRAY SHIELD FOR GUNJET



Spray shield for gunjet

001950C

GunJet®**AA43 SPRAY GUNS**

No. AA43L for operating pressures up to 13 bar.
pressures from 13 bar to 55 bar.

No. AA43H for operating

MODELS

Trigger handle control...ALL MODELS have 1/2" NPT (F) inlet connections.

Quality designed and built for heavy duty service. Stem extends through extension to valve seat located directly behind orifice disc for drip-free shutoff and instant operating response. Convenient trigger-lock for continuous spraying.

Model No.	Operating Pressure (bar) Range	Made of	Lgh. mm
43L	0-14	Brass	559
43H	14-55	Brass	
43L-AL	0-14	Alum.	
43H-AL	14-55	Alum.	



Hardened stainless steel type D orifice discs

Choice of five interchangeable orifice disc capacities. Other sizes on request. Discs are corrosion and erosion-resistant.

Exposed packing nut
For easy adjustment of packing.

Choice of materials
Brass or aluminium.

Type 43A GunJet Spray Guns

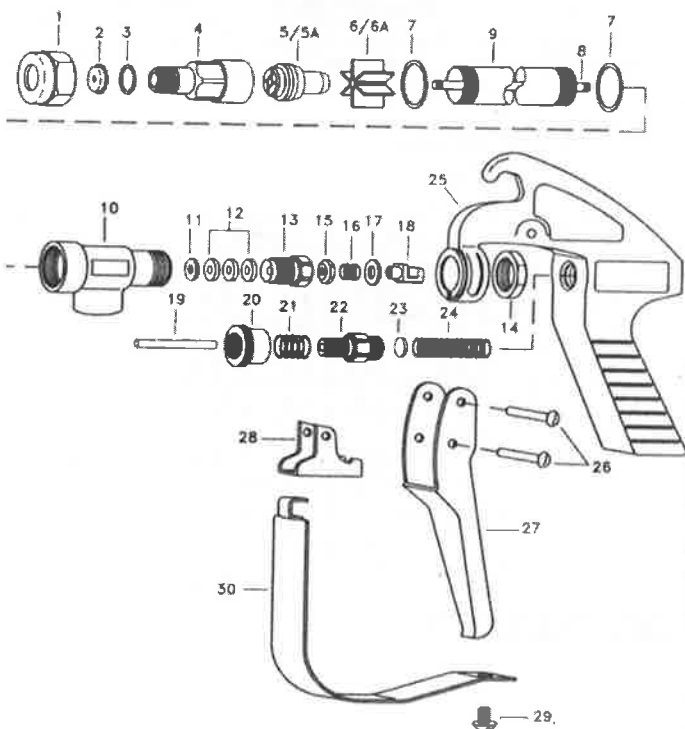


Model No.	Operating Pressure (bar) Range	Made of	Lgh. mm
43LA	0-14	Brass	330
43HA	14-55	Brass	
43LA-AL	0-14	Alum.	
43HA-AL	14-55	Alum.	



Hardened stainless steel type DX-HSS spray tips

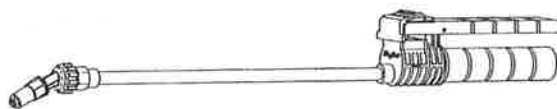
For spraying trees and other applications where maximum spray throw is required.



ITEM	PART NO.		DESCRIPTION
	BRASS	ALUMINUM	
1	CP1325	CP1325-AL	Cop. Brass or Aluminum
2	D-**	D-**	Orifice Disc, Hardened Stainless Steel
3	CP4743-NY	CP4743-NY	Gasket, Nylon
4	CP10566	CP10566-AL	Nozzle Housing, Brass or Aluminum
5	10565-1-NY	10565-1-NY-AL	Seat Plug, Seat Plate, Washer & Core Sub-Assembly Nylon Core & Vane With Brass Or Aluminum Seat Plug
5A	10565	10565-AL	Seat Plug, Seat Plate, Washer & Core Sub-Assembly Brass Or Aluminum, Special Order ONLY
6	CP10571-2-NY	CP10571-3-NY	Guide Vane, Nylon
6A		CP10571-AL	Guide Vane, Aluminum, Special Order ONLY
7	CP45195-NYB	CP45196-NYB	Gasket, Nylon (2 Req'd)
8	CP19238-416SS	CP19238-416SS	Stem, Type 416 Stainless Steel
9	CP6804	CP6804-AL	Tubing, Brass or Aluminum
10	CP6492	CP6492-AL	Inlet Body, Brass or Aluminum
11	CP6601-302SS	CP6601-302SS	Packing Washer, Type 302 Stainless Steel
12	CP6602-LEA	CP6602-LEA	Packing, Leather (3 Req'd), Standard
13	CP19237	CP19237-AL	Packing Screw, Brass or Aluminum
14	CP6599	CP6599-IZP	Locknut, Brass or Steel, Zinc Plated
15	CP6641-INP	CP6641-INP	Stem Nut, Steel, Nickel Plated
16	CP6595-SS	CP6595-SS	Trigger Stop Spring, Stainless Steel
17	CP7991-SS	CP7991-SS	Washer, Stainless Steel
18	CP6597-INP	CP6597-INP	Trigger Guide, Steel, Nickel Plated
19	CP6591-SS	CP6591-SS	Spring Stud, Stainless Steel
20	CP6589-IZP	CP6589-IZP	Stop Adjustment Nut, Steel, Zinc Plated
21	CP6594-SS	CP6594-SS	Spring for Stop Adjustment Nut, Stainless Steel
22	CP6588-IZP	CP6588-IZP	Spring Screw, Steel, Zinc Plated
23	CP6592-302SS	CP6592-302SS	Spring Guide Washer, Type 302 Stainless Steel
24	CP6593-1-SS	CP6593-1-SS	Main Spring, Stainless Steel (for Model #43L-)
	CP6593-2-SS	CP6593-2-SS	Main Spring, Stainless Steel (for Model #43H-)
25	CP14477-1-AL	CP14477-1-AL	Handle Body, Aluminum
26	CP7623-IZP	CP7623-IZP	Rivet, Steel, Zinc Plated (2 Req'd)
27	CP6509-INP	CP6509-INP	Trigger, Steel, Nickel Plated
28	CP6510-INP	CP6510-INP	Trigger Stop, Steel, Nickel Plated
29	CP11757-SS	CP11757-SS	Screw, Stainless Steel
30	CP13798-INP	CP13798-INP	Trigger Guard, Steel, Nickel Plated
GunJet® No. AA43L - Brass, Complete, For Pressures up to 200 PSI			
GunJet® No. AA43L-AL - Aluminum, Complete, For Pressures up to 200 PSI			
GunJet No. AA43H - Brass, Complete, For Pressures from 200 to 800 PSI			
GunJet No. AA43H-AL - Aluminum, Complete, For Pressures from 200 to 800 PSI			
AB43-KIT Spare parts KIT (Includes all items marked with *)			
AB43-AL-KIT Spare parts KIT (Includes all items marked with *)			
ABCK43-KIT Conversion KIT for Adjustable Stem - Items 8, 13 & 15 (for Model #43-)			
ABCK43-AL-KIT Conversion KIT for Adjustable Stem - Items 8, 13 & 15 (for Model #43-AL-)			

** Specify Orifice Disc Size

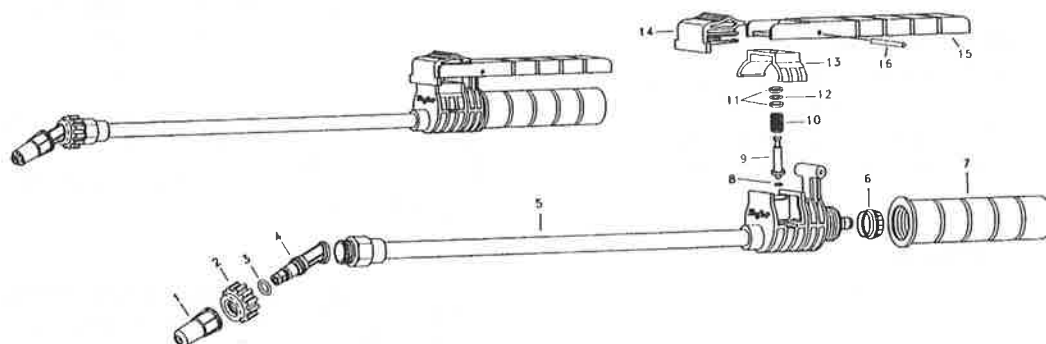
TriggerJet® Spray Gun



The Model 38700 TriggerJet® spray gun is a lightweight spray gun designed for use with backpack, canister, or other low pressure spray systems. The TriggerJet is made of molded polypropylene for excellent chemical resistant and durability.

FEATURES:

- The 38700 TriggerJet® spray gun kit includes a 15" (381 mm) extension.
- Replaceable internal working components (see diagram below).
- Trigger lock permits locking valve in open position for continuous flow.
- Maximum operating pressure of 100 psi (7 bar).
- Accepts all standard spray tips and tip strainers.
- Available in 1/4" (6 mm) hose shank connection.
- External hose clamps are eliminated by the 38700 TriggerJet® spray gun's internal hose clamp.



ITEM	PART NO.	DESCRIPTION
1	CP38721-PP-**	TIP BODY, POLYPROPYLENE
2	CP22668-PP	CAP, POLYPROPYLENE
3	CP7717-5-EPR	O'RING, EPDM RUBBER
4	CP38722-PP	CORE, POLYPROPYLENE
	38720-PP	ADJUSTABLE CONEJET® SPRAY TIP SUB-ASB. (INCLUDES ITEMS 1 THRU 4)
5	38711-PP	BODY SUB-ASSEMBLY, POLYPROPYLENE
6	CP38708-PP	HOSE CLAMP, POLYPROPYLENE
7	CP38707-PP	HANDLE, POLYPROPYLENE
8	CP7717-2-103/90-BU	O'RING, BUNA-N (90 DUROMETER)
9	CP38709-NYB	STEM, NYLON (BLACK)
10	CP38705-PHSS	SPRING, STAINLESS STEEL TYPE 17-7PH
11	CP38706-NY	WASHER, NYLON (2 REQ'D)
12	CP7717-2/108-BU	O'RING, BUNA-N
13	CP38702-PP	SPRING RETAINER, POLYPROPYLENE
14	CP38704-PP	TRIGGER LOCK, POLYPROPYLENE
15	CP38703-PP	TRIGGER, POLYPROPYLENE
16	CP22672-IZP	GROOVE PIN, STEEL-ZINC PLATED

HIGH PRESSURE SPRAY GUN



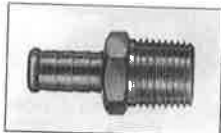
The lever and handle spray guns are manufactured as follows: stainless steel tube, brass inside rod, steel nozzle or ceramic.

Lever spray gun 300mm **001000**

BRASS FITTINGS

MALE TAILPIECE

1/4" Thread x 1/2" Barb	P3-1/2X1/4 (AA30L GunJet)
1/2" Thread x 1/2" Barb	P3-1/2X1/2 (hose reel nylon tubing adaptor)
3/8" Thread x 1/4" Barb	P3-1/4X3/8 (Std Foam Marker One-way valve)
3/8" Thread x 1/2" Barb	P3-1/2X3/8
1/4" Thread x 1/4" Barb	P3-1/4X1/4
1/8" Thread x 1/4" Barb	P3-1/4X1/8
1/2" Thread x 3/8" Barb	P3-3/8X1/2
1/4" Thread x 3/8" Barb	P3-3/8X1/4
1/4" F/male x 1/2 Barb	P10-1/2x1/4



Male thread



Female thread

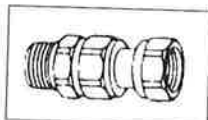


MALE ELBOW

1/4" Thread x 1/2" Barb	P6-1/2X1/4
1/4" Thread x 1/4" Barb	P6-1/4X1/4
1/8" Thread x 5/16" Barb	P6-5/16X1/8
1/8" Thread x 1/4" Barb	P6-1/4X1/8

NUT AND TAIL
(STRAIGHT)

1/2" (13mm) 006330



BRASS SWIVEL

1/2" NPT Hose reel swivel 11990-17
(option for AA43 GunJet)
1/4" NPS 11990-6
(option for AA30L GunJet)



OLIVE

1/2" Universal olive
100-1/2 (Hose Reel)



COMPRESSION NUT

1/2" OD 2-1/2
(Hose Reel)

45° MALE / FEMALE
ELBOW

1/4" 59X45-1/4

QUICK-RELEASE COUPLING
(FEMALE)

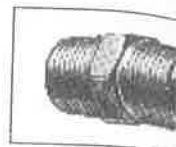
1/4" Thread (Female) 200

HEX NIPPLE

1/8"	27-1/8
1/4"	27-1/4
3/8"	27-3/8
1/2"	27-1/2
3/4"	27-3/4
1"	27-16

HEX REDUCING NIPPLES

1/8"-3/8"	73-1/8X3/8
1/8"-1/2"	73-1/8X1/2
1/2"-1/4"	73-1/2X1/4
1/4"-1/8"	73-1/4X1/8
3/8"-1/4"	73-3/8X1/4
1"-1/2"	73-1X1/2



ELBOW - MALE X FEMALE

1/2" BSP	25C-1/2
3/4" BSP	25C-3/4
1" BSP	25C-1



NUT AND TAIL (ELBOW)

1/2" (13mm) 006530
(Supermix Agitator)



FEMALE CONNECTOR

1/2" x 1/2" to attach nylon tubing
hose reel swivel or 1/2" hose
10-1/2X1/2



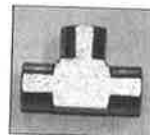
TAPER PLUG

1/4"	64-1/4
1/2"	64-1/2
3/4"	64-3/4



DOUBLE UNION

1/2" Z4-1/2

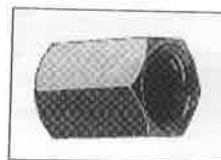


FEMALE T PIECE

1/8"	35-1/8
1/4"	35-1/4
1/2"	35-1/2

QUICK-RELEASE COUPLING
(MALE)

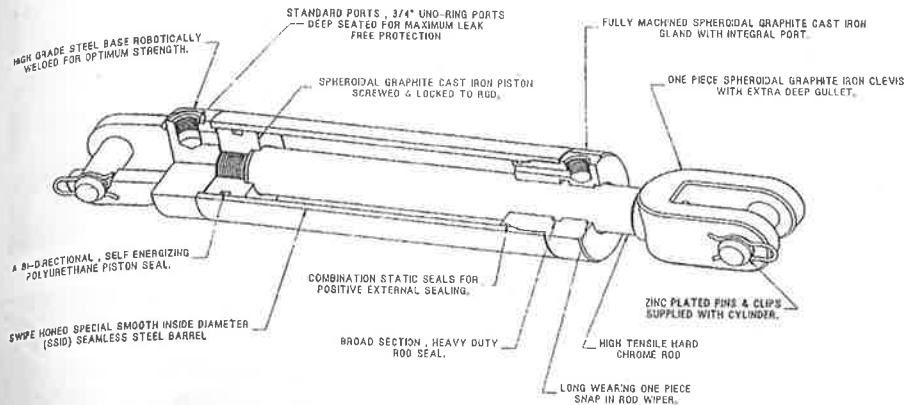
1/4" Hose 205



HEX SOCKET

1/4"	26-1/4
3/8"	26-3/8
1/2"	26-1/2

HYDRAULIC CYLINDERS—LYCO

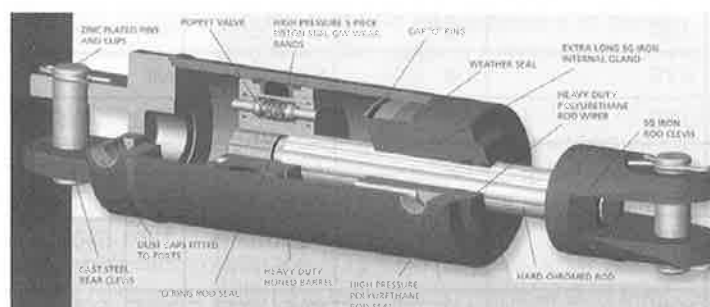


- Double acting or single acting.
- Clevis end or ball end.

When ordering repair kits please state left, right or lift cylinder. Also state if the cylinder is a Top Gun or OSW.

PART NO.	DESCRIPTION	TO SUIT:	REPAIR KIT NO.
2.5X16-C	2.5" Cylinder x 16" Stroke Clevis End	Hydraulic lift	102629
2.5X16-B	2.5" Cylinder x 16" Stroke Ball End	Hydraulic fold	PHAS-21/2
2.75X16-B	2.75" Cylinder x 16" Stroke Ball End	Hydraulic fold	PHAS-23/4
2.5X36-C	2.5" Cylinder x 36" Stroke Clevis End	Hydraulic lift	102629
3.0X4-C	3.0" Cylinder x 4" Stroke Clevis End	Hydraulic tilt (24M boom +) Mk I 3PL & pre 1995 sprayers	102630
3.0X5-C	3.0" Cylinder x 5" Stroke Clevis End	Hydraulic tilt Mk III up to 30 Mt	102630
2.5X3-C	2.5" Cylinder x 3" Stroke Clevis End	Hydraulic tilt (20M boom -)	102629
3.5X5	3.5" Cylinder x 5" Stroke Clevis End	Hydraulic tilt Mk II suit 33, 36 Mt booms & self propelled	
3.0X18	3.0" Cylinder x 18 Stroke	Hydraulic Fold	OSW106638
3.0X18	3.0" Cylinder Top Gun	Hydraulic Fold	106654
3.25x18	3.25" Cylinder x 18 Stroke	Hydraulic Fold	OSW106639
3.25X18	3.25" Cylinder Top Gun	Hydraulic Fold	106655
2.5X36	2.5" Cylinder Displacement Clevis End	Hydraulic lift suit up to 24 Mt	107300
2.5X48	2.5" Cylinder Displacement Clevis End	Hydraulic lift 24 Mt +	107300

HYDRAULIC CYLINDERS—PTE



PART NO.	DESCRIPTION	TO SUIT:	REPAIR KIT NO.
G0300-03A	3.25" Cylinder x 18" Stroke 1.25" Rod	Hydraulic fold	SKSLP325-1.25
G0300-02A	3.0" Cylinder x 18" Stroke 1.25" Rod	Hydraulic fold	SKSLP300-1.25
G0300-04A	2.5" Cylinder x 36" Stroke 2" Rod	Hydraulic lift	SKG0300-04A
G0300-06	2.5" Cylinder x 48" Stroke 2" Rod	Hydraulic lift	SKG0300-04A
SLMN3.0X5.0	3.0" Cylinder x 5" Stroke 1.5" Rod	Hydraulic tilt Mk III up to 30 Mt	SKSLM300-1.5
G0300-08	2.5" Cylinder x 50" Stroke Tele design	Hydraulic lift	

HYDRAULIC CYLINDER FITTINGS

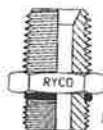


BITELOCK CRIMP COUPLINGS
T02-6 1/2" BSPP Female
(Hydraulic lift)

T02-2 1/4" BSPP Female
(Hydraulic fold)



BITELOCK CRIMP COUPLINGS
T05-1 1/4" BSPP Female 90° Elbow
(Hydraulic fold)



ADAPTORS
S93-26 A 1/4" B 3/4"
(Hydraulic fold)

S93-10 A 1/2" B 3/4"
(Hydraulic lift)



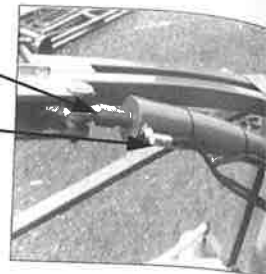
ADAPTORS - TEES
S50-1 A 1/4" B 1/4" C 1/4"
(Hydraulic fold - standard cylinders)



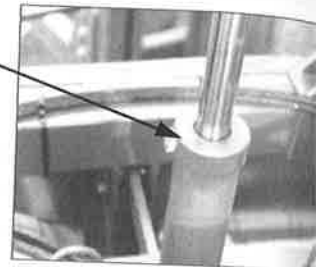
CYLINDER PORT BREATHER
PMBHF6 3/4" ORB (with O Ring)
(Hydraulic lift)

S93-26

T05-1



PM-BHF-6



HYDRAULIC HOSE



S15



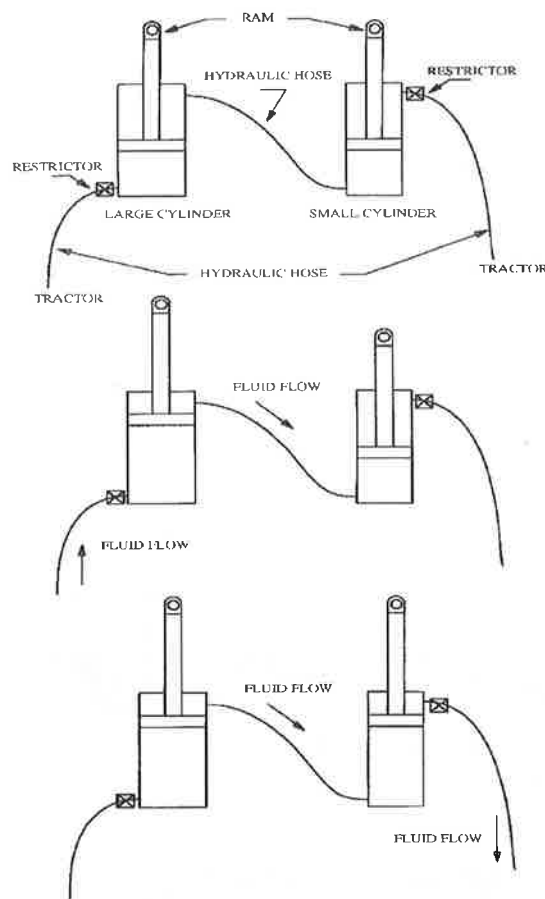
T201



S25

Part Number	Length (metres)	Hose size	Coupling A	Coupling B	To suit:
HL01/GA	11.7	1/4"	S25-0404	S01-0404	18—21 Mt fold
HL03/GA	7.8	1/2"	S01-0808	S15-0808	18—21 Mt mast fold
HL04/GA	12.28	1/4"	S25-0404	S01-0404	24 Mt + fold
HL06/GA	8.23	1/4"	S01-0404	S01-0404	24 Mt + mast
HL07/GA	0.90	1/4"	S01-0404	S01-0404	Old hydraulic jack
HL08/GA	1.1	1/2"	S15-0808	S15-0808	Hydraulic drive
HL09/GA	0.30	1/2"	S15-0808	S01-0808	Hydraulic drive
HL10/GA	3.75	1/4"	S01-0404	Nil	Case drain Director
HL11/GA	0.60	1/4"	T202-0404	T202-0404	Oil pressure gauge Director
HL12/GA	2.50	1/2"	T201-0808	T201-0808	Pressure hose Director control valve
HL13/GA	0.67	1/2"	T201-0808	T201-0808	Feed hose from valve to motor—Director
HL14/GA	4.60	1/2"	T201-0808	T201-0808	Mast close Director
HL15/GA	3.70	1/2"	T201-0808	T201-0808	Mast open Director
HL16/GA	2.25	3/4"	T202-1212	T202-1212	Return hose from control hose Director
HL17/GA	0.67	3/4"	T202-1212	T202-1212	Return from hyd motor to control valve Director
HL19/GA	3.1	1/4"	S15-0808	S15-0808	Junction hose all Delta booms

HYDRAULIC PHASING CYLINDERS



Lyc0 Hydraulic phasing cylinders (yellow or green)

PTE Hydraulic phasing cylinders (black)

For the raised side-fold Delta Booms, hydraulic phasing cylinders (rams) are used in the folding operation of the boom. This ensures that both sides of the boom are synchronised and thus open and close together so that the weight distribution is the same for both sides of the boom.

As hydraulic fluid enters one cylinder, it acts upon the first ram and causes it to move. This motion results in an amount of fluid entering a second cylinder which causes the second ram to move an equivalent distance.

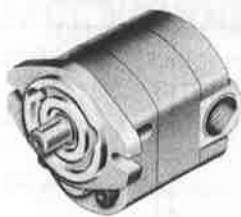
There is a difference in the diameter of these two cylinders because the volume of hydraulic fluid transferred from the first cylinder to the second cylinder is the volume caused by the first ram moving, minus the volume of the actual enclosed first ram. Hence the diameter of the second cylinder will need to be smaller than that of the first cylinder for this volume of oil being transferred to produce the same motion for both rams.

There is also a flow restriction for each ram so that the hydraulic fluid will enter and leave the respective cylinders at a controlled rate. This has the effect of slowing down the rate of fluid transfer and thus causes the boom to open and close more slowly.

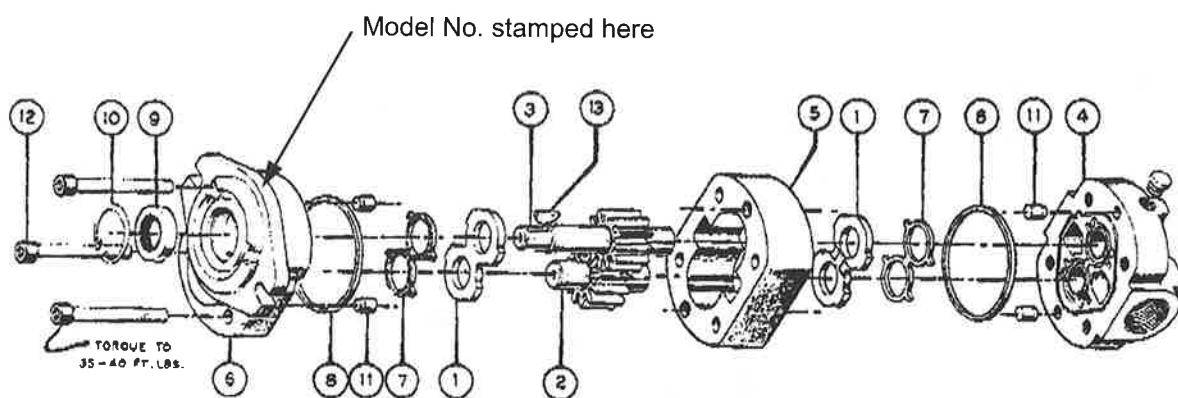
RE-PHASING THE RAMS

If the sides of the boom do not fold together so that they become out of line, the hydraulic rams will need to be re-phased. To do this, depending on whether the boom is to be folded or unfolded, close the boom right up or open the boom right out and continue to hold the control lever in that position until the rams are synchronised. This may need to be done periodically.

HYDRAULIC GEAR PUMP/MOTORS (Director Sprayer Fan Drive)



Rated working pressure (max. relief valve setting at full flow): 2200 psi
 Maximum flow rate (delivery): 66 l/min
 Maximum speed: 2000 RPM
 Maximum horsepower (at rated speed and pressure): 41 hp (30.5 kw)
 DACS PUMP/7 - **40PO07** (Fitted to single row Director)
 DACS PUMP/10 - **40PO10** (Fitted to double row Director)



POS. NO.	DESCRIPTION
1	Thrust Plate (2)
2	Driven Gear
3	Drive Gear Assy
4	Rear Gear Assy
5	Body
6	Front Cover Assy
7	Loading Seal (2)
8	Static Seal (2)
9	Shaft Seal
10	Retaining Ring
11	Dowel Pin (4)
12	Cap Screw (4)
13	Woodruff Key

5A0081 (Seal part number for both motor and pump)

PERFORMANCE DATA — PUMPS: GPM/RPM						PERFORMANCE DATA — MOTORS: RPM/GPM						
RPM	1000	1500	2000	2500	3000	GPM	5	10	15	20	30	50
MODEL	GPM	GPM	GPM	GPM	GPM	MODEL	RPM	RPM	RPM	RPM	RPM	RPM
40P005	1.7	2.6	3.5	4.3	5.2	40M005	1732					
40P007	2.8	4.1	5.5	6.9	8.3	40M007	1155	2310				
40P010	3.7	6.5	7.4	9.2	11.0	40M010	866	1732	2599			
40P012	4.9	7.3	9.7	12.1	14.6	40M012	693	1386	2079	2772		
40P015	5.8	8.8	11.7	14.6	17.5	40M015	577	1155	1732	2310		
40P018	7.0	10.5	14.0	17.5		40M018	481	962	1443	1925	2887	
50P015	5.9	8.8	11.8	14.6	17.8	50M015	684	1368	2052	2736		
50P019	7.6	11.4	15.2	19.0	22.8	50M019	533	1066	1599	2132		
50P023	9.0	13.6	18.1	22.6	27.1	50M023	448	896	1344	1792	2688	
50P027	10.7	16.0	21.4	26.7	32.0	50M027	379	759	1138	1518	2276	
50P033	12.9	19.3	25.7	32.1	38.6	50M033	315	630	945	1260	1890	
50P038	14.8	22.2	29.6	37.0		50M038	274	547	821	1094	1641	2736
50P052	20.3	30.4	40.6			50M052	199	400	600	800	1199	1999
60P040	15.8	23.7	31.6	39.4	47.3	60M040	257	513	770	1027	1540	2567
60P051	20.1	30.1	40.1	50.2	60.2	60M051	202	404	606	807	1211	2018
60P061	24.0	36.0	47.9	59.9	71.8	60M061	169	338	507	676	1014	1690
60P071	27.9	41.8	55.7	69.6	83.6	60M071		291	436	582	872	1454
60P081	31.8	47.6	63.5	79.4		60M081		255	383	510	765	1275
60P092	36.0	54.1	72.1	90.1		60M092		225	337	450	674	1124

NOTE: Above performance figures are approximate and are based on 2000 psi operating pressure.
Operation in shaded areas is not recommended.

A. DISASSEMBLY

1. Remove unit and thoroughly clean. Remove shaft key (8) and any nicks or burrs on shaft.
 2. Scribe line on outside of unit across front cover, body and rear cover to assure proper reassembly.
 3. Lightly clamp rear cover (4) in vice, shaft up. **EXCESSIVE CLAMPING PRESSURE CAN CAUSE DISTORTION.**
 4. Remove cap screws (11) from front cover (6).
 5. Tap upwards, underneath front cover flange and remove front cover. As unit separates, the body may remain with either the front or rear cover. Remove loose parts (rings, plates, etc).
 6. To separate body from front cover, clamp body in vice and again tap upwards on front cover flange. To separate body from rear cover, clamp body in vice and tap downward on shaft. Remove static seals (12) and loading seals (7) from grooves. **DO NOT DAMAGE GROOVE OR COVER SURFACE.**
 7. Remove snap ring (9) from shaft seal cavity in front cover using internal snap ring pliers.
 8. Clamp front cover in vice, seal down, and drive shaft seal out of cavity using screwdriver held at about a 45° angle. **USE CAUTION NOT TO DAMAGE CAVITY.**
- * Step 6 can be by-passed if only the shaft seal is being replaced.

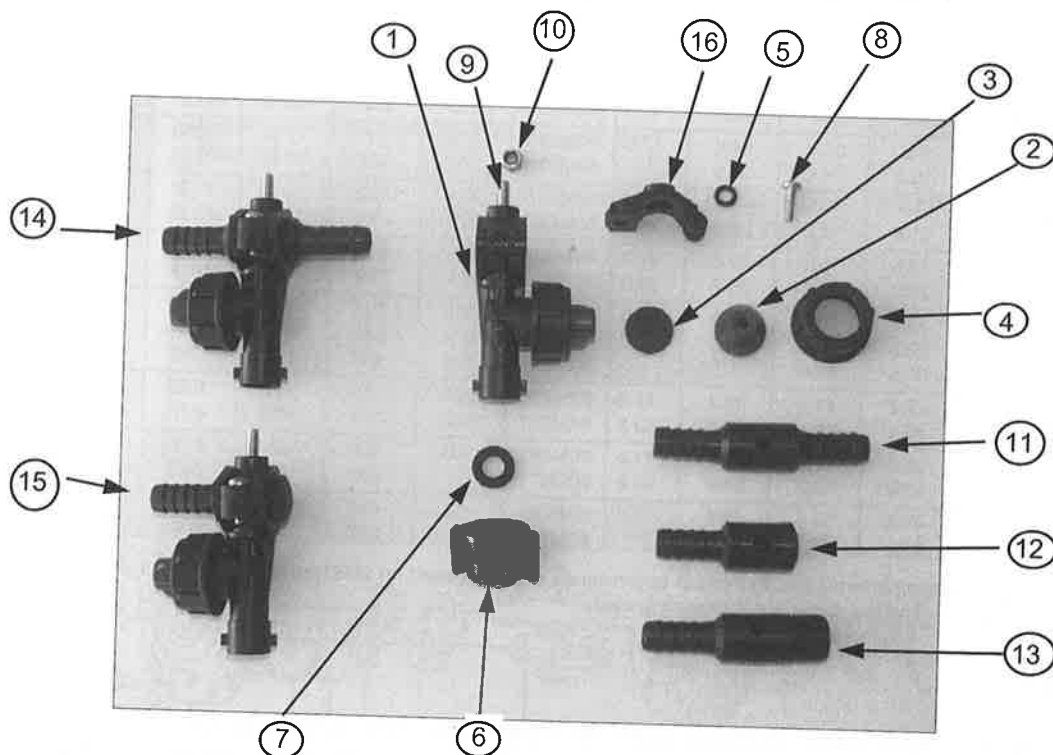
B. PARTS INSPECTION

1. Thoroughly clean all parts in solvent and dry with compressed air.
2. Inspect all parts for damage and unusual or excessive wear. If gears, bushings or body are damaged or badly worn, replace unit (only plates and seals are replaceable).

C. REASSEMBLY

1. Install new shaft seal in front cover (6). Be sure bearing hole is not blocked.
2. Install snap ring (9) and new seals (7,12) in covers (if needed).
3. Assemble body (10) and rear cover (4) aligning dowel pins (5) and scribed line.
4. Insert thrust plate (1) into body (10) flat side toward seal 7. Lubricate gears and insert.
5. Insert thrust plate (1) over shaft, flat side toward seal 7.
6. Lubricate shaft and slide front cover (6) over shaft and dowel pins (5). Tap if needed.
7. Insert cap screws (11) and tighten evenly.
8. Rotate shaft.

DRY BOOM NOZZLE BODIES (ARAG) 1994 - 2003 GOLDACRES SPRAYERS



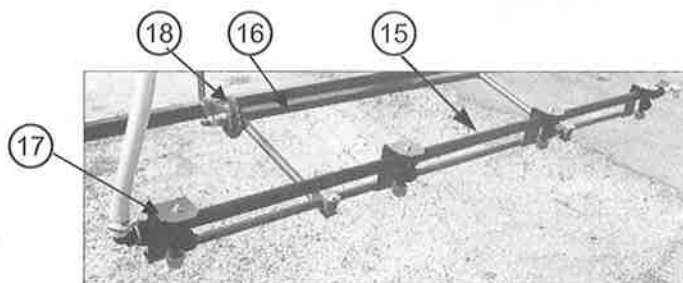
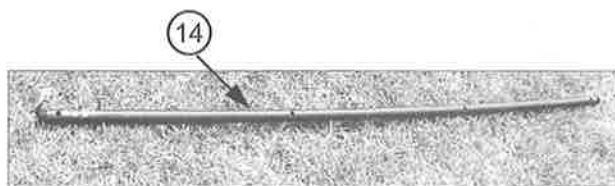
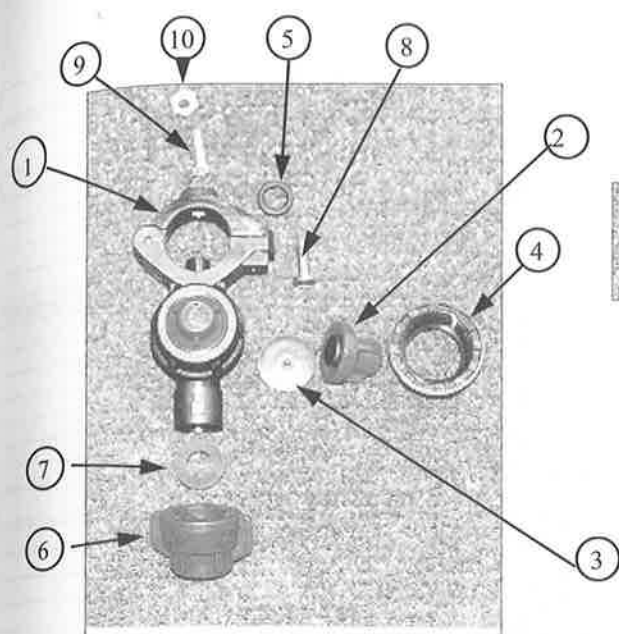
ITEM	DESCRIPTION	PART NUMBER
1	Quick Coupling Uni-Jet (1/2")	402735
2	Non-Drip Check Valve	005860.030
3	Non-Drip Check Valve Diaphragm	005860036
4	Fly Nut (3/4")	200030
5	O-Ring for Jet Hole	400020.030
6	Cap	402901
7	Seal	402200040
8	Self-Threading Screw	V2B25F
9	15 x 6 Bolt	M15X6
10	6mm Nyloc Nut	NN6
11	T - Nozzle Manifold (In-line)	427213
12	L - Nozzle Manifold (End)	426213
13	Threaded Manifold	428213
14	T - Nozzle Body (less cap & seal)	402735A-T
15	L - Nozzle Body (less cap & seal)	402735A-L
16	Manifold hinge	400530.020

Please note:
Fly nut 3/4" 200030
can be interchanged
with Udor 3/4" pres-
sure nut 1049

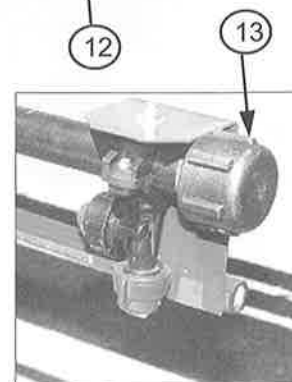
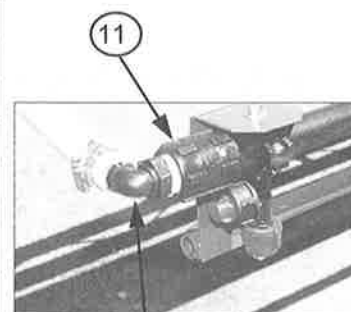
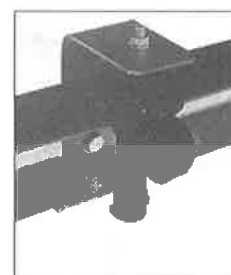
Handy
Hints



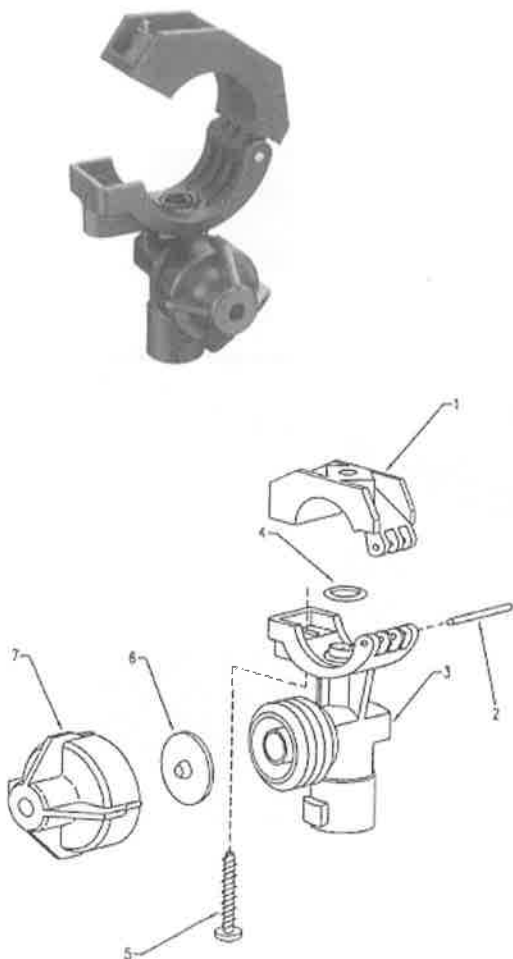
WET BOOM NOZZLE BODIES (ARAG)



ITEM	DESCRIPTION	PART NUMBER
1	Quick Coupling Uni-Jet (3/4")	402755
2	Non-Drip Check Valve	005860.030
3	Non-Drip Check Valve Diaphragm	005860036
4	Fly Nut (3/4")	200030
5	O-Ring for Jet Hole	400040.030
6	Cap	402900
7	Seal	402200040
8	Self-Threading Screw	V2B2SF
9	15 x 6 Bolt	M15X6
10	6mm Nyloc Nut	NN6
11	3/4" Pipe Socket	CPLG075
12	3/4" Thread Hose Barb Elbow 3/4" Thread Hose Barb	EL34 A34
13	3/4" Pipe Cap	CAP075
14	3-Nozzle Manifold (Bare & Drilled) 4-Nozzle Manifold (Bare & Drilled) 5-Nozzle Manifold (Bare & Drilled) 6-Nozzle Manifold (Bare & Drilled) 7-Nozzle Manifold (Bare & Drilled)	RT20MM1200 RT20MM1600 RT20MM2100 RT20MM2600 RT20MM3100
15	4-Nozzle Manifold Complete (less tips & Strainers) 5-Nozzle Manifold Complete (less tips & Strainers) 6-Nozzle Manifold Complete (less tips & Strainers) 7-Nozzle Manifold Complete (less tips & Strainers)	4-NOZWB 5-NOZWB 6-NOZWB 7-NOZWB
16	Trailer boom jet arm	TB*A
17	Trailer boom jet bracket	TB*B
18	Clacker plate (serrated plate)	CLACK



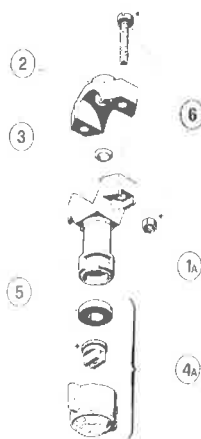
TEEJET QJ17560A-3/4-NYB NOZZLE BODY



ITEM	PART NO.	DESCRIPTION
1	CP48223-NYB	Upper Clamp, 1/2", Nylon (Black)
	CP48221-NYB	Upper Clamp, 3/4", Nylon (Black)
	CP48222-NYB	Upper Clamp, 1", Nylon (Black)
	CP48220-NYB	Upper Clamp, 20mm, Nylon (Black)
	CP48224-NYB	Upper Clamp, 25mm, Nylon (Black)
2	CP48256-SS	Pivot Pin, Stainless Steel
3	CP48496-NYB	Body, 1/2", Nylon (Black)
	CP48498-NYB	Body, 3/4", Nylon (Black) (for 3/4" and 25mm version)
	CP48499-NYB	Body, 1", Nylon (Black)
	CP48497-NYB	Body, 20mm, Nylon (Black)
4	CP7717-2-110-BU	O-Ring, Buna-N
	CP7717-2-110-VI	O-Ring, Viton
5	CP48255-1-1/4-302SS	Screw, Stainless Steel
6	CP21953-EPR	Diaphragm, EPDM
	CP21953-VI	Diaphragm, Viton
7	21950-10-NYB	End Cap Sub-Ass'y, Nylon (Black)

No. QJ17560A-1/2-NYB(-VI) - Hinged Nozzle Body Assembly
 No. QJ17560A-3/4-NYB(-VI) - Hinged Nozzle Body Assembly
 No. QJ17560A-1-NYB(-VI) - Hinged Nozzle Body Assembly
 No. QJ17560A-20mm-NYB(-VI) - Hinged Nozzle Body Assembly
 No. QJ17560A-25mm-NYB(-VI) - Hinged Nozzle Body Assembly
 Note: -VI in part number specifies Viton material for parts #4 and 6

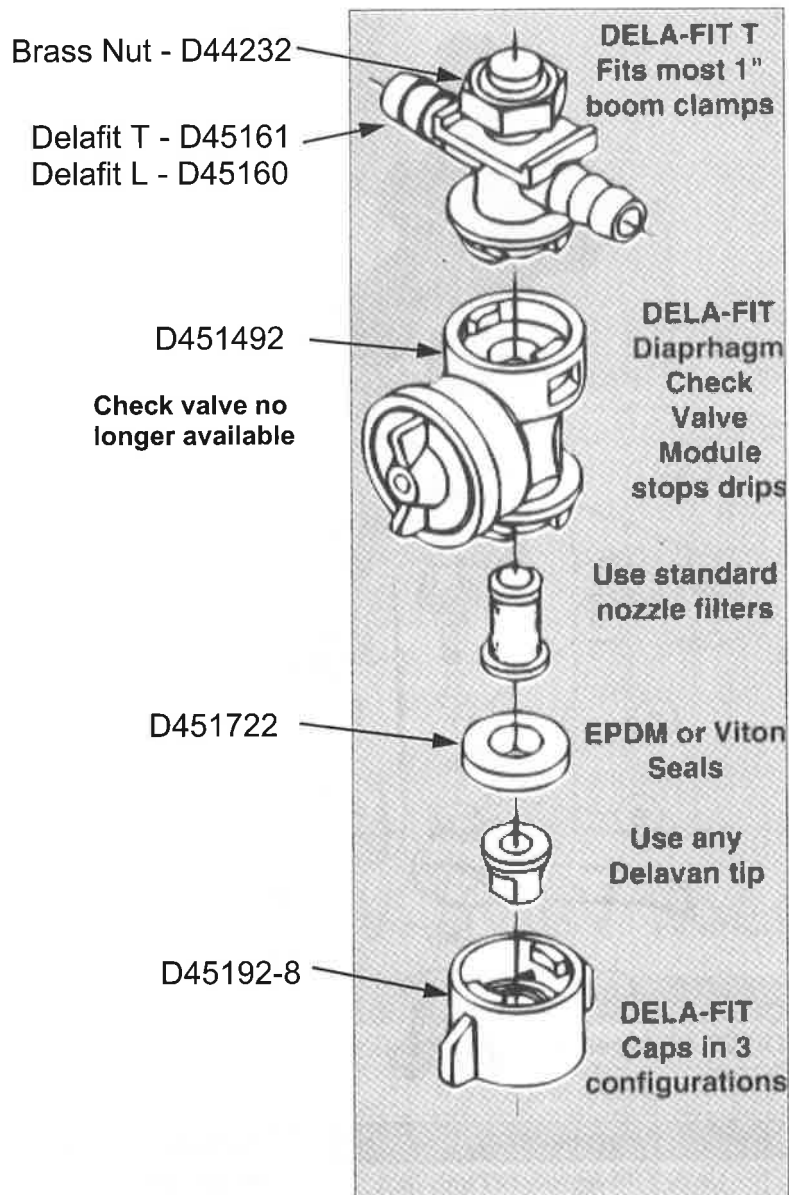
ARAG NOZZLE BODIES (OLD STYLE) WITHOUT NON-DRIP



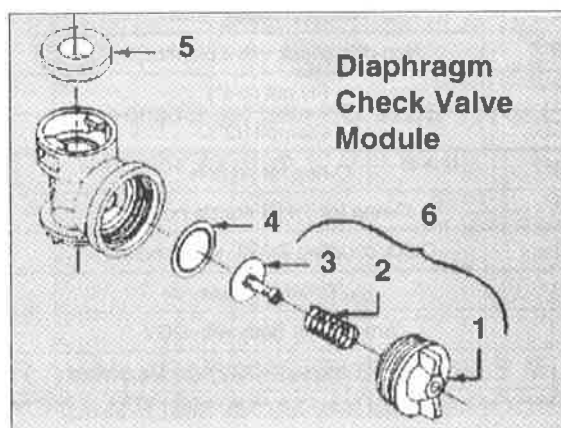
ITEM NO.	DESCRIPTION
1A	Quick coupling jet body/pipe 1/2"
2	Jet clamp
3	O ring for jet hole
4A	Cap
5	Seat
6	Screw and nut kit
	In-line (T) nozzle body without non-drip
	End (L) nozzle body without non-drip

PARTS NO LONGER AVAILABLE - NOZZLE BODIES MUST BE REPLACED WITH CURRENT MODEL

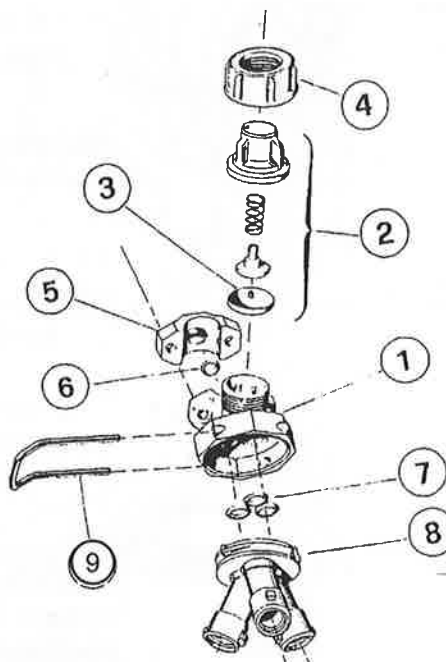
DELEVAN NOZZLE BODIES GOLDACRES SPRAYERS TO APPROX. 1986



It is advisable to replace Delevan nozzle bodies with TeeJet or Arag nozzle bodies.

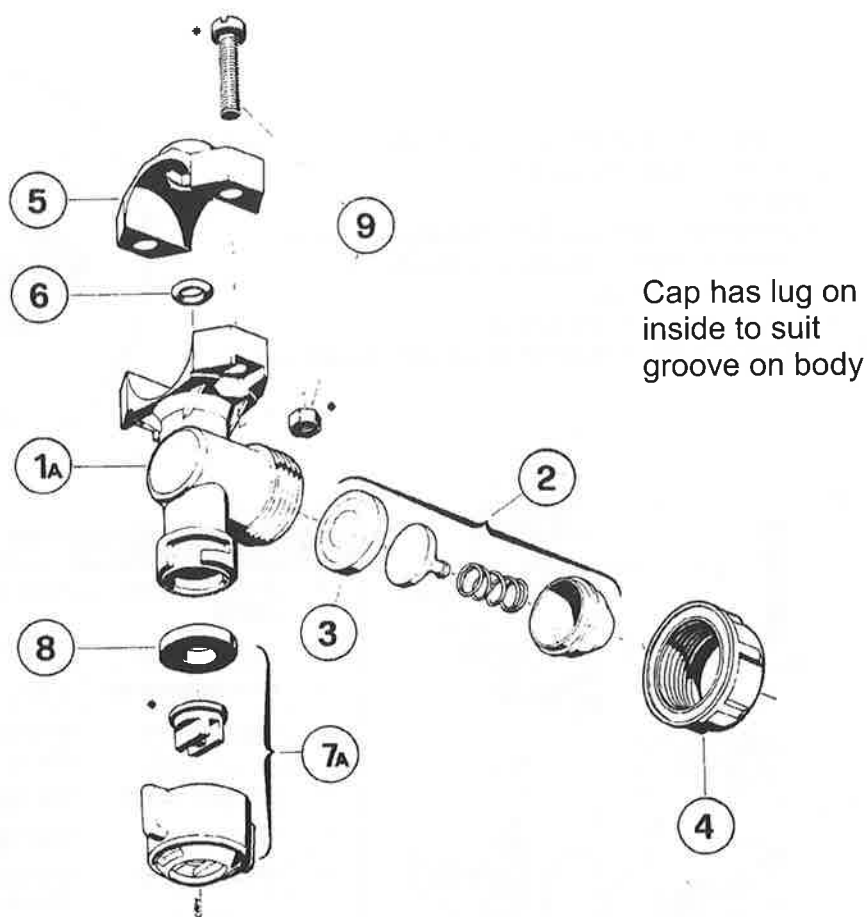


ARAG TRIJET BODY WITH DCV GOLDACRES SPRAYERS APPROX. PRE 1997



ITEM NO.	DESCRIPTION	PART NO.
1	Tri-Jet body (1/2")	4012035.010
2	Non-drip check valve	005860.030
3	Non-drip check valve diaphragm	005860036
4	Fly nut (3/4")	200030
5	Clamp (1/2")	400030.020
6	O-ring for jet hole	400020.030
7	O-ring for Tri-jet nozzle holder	004500.090
8	Quick coupling Tri-jet nozzle holder	4012200.020
9	Tri-jet fork lock	401000.080
	Arag Tri-jet Body with DCV	4012235
	Arag Tri-jet Body with DCV with T manifold	4012235A-T
	Arag Tri-jet Body with DCV with L manifold	4012235A-L

SUPERCEDED ARAG MODEL NOZZLE BODIES GOLDACRES SPRAYERS FROM 1986 - 1994 (APPROX.)



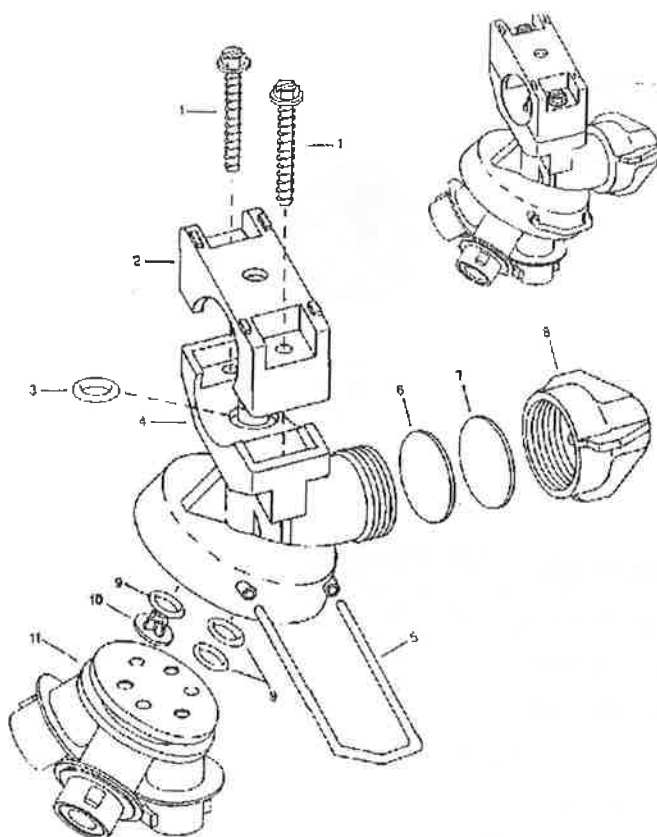
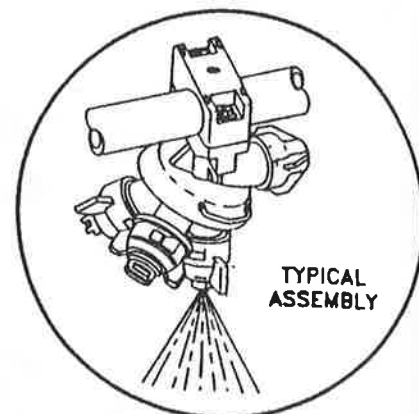
ITEM	DESCRIPTION
1A	Quick Coupling Uni-get Body/pipe 1/2" F10
2	0.5 bar anti drip set
2	1 bar anti drip set
3	Anti-drip Diaphragm in EPDM
4	3/4" Fly Nut
5	1/2" Jet Clamp
6	O-ring for Jet Hole 7 D. 6x2.5
6	O-ring for Jet Hole 10 D. 9.1x2.6
7A	Cap
8	Seal
9	Screw and Nut Kit

**PARTS NO LONGER AVAILABLE - NOZZLE BODIES MUST BE
REPLACED BY TEEJET OR ARAG NOZZLE BODIES**

QUICK TEEJET TRIPLE BODY GOLDACRES SPRAYERS APPROX. 1997 - CURRENT

FEATURES:

- * Quick hand indexing with choice of three different spray tips for easier changing of spray patterns or application rates.
- * Drip-free positive shut-off.
- * Shut-off position provided between any two spraying positions.
- * Fast and easy way to mount spray nozzles to a boom.
- * Made of corrosion resistant materials.
- * Maximum operating pressure - 150 psi (10 bar).
- * For use with Quick TeeJet caps, TeeJet strainers and TeeJet tips.



ITEM	PART NO	DESCRIPTION
1	CP20123-1-1/4-430SS	Screw type 430 stainless steel
2	CP24222-NYB	Upper clamp, nylon (black)
3	CP7717-2/110-BU	O Ring, Buna-N
4	CP24220-NYB	Main body with lower clamp, nylon (black)
5	CP24221-304SS	Clip, type 304 stainless steel
7	CP21953	Diaphragm, EPDM rubber
8	21950-10-NYB	Chemsaver end cap assembly, nylon (black)
9	CP7717-2/109EPR	O Ring, EPDM rubber (3 reqd)
10	CP24224-CE	Indexing button, celcon (grey)
11	24217-CE	Indexing plate sub assy, celcon (black)

QUICK TEEJET TRIPLE NOZZLE 3/4"

24216-3/4-NYB

Also available in 1/2"

24216-1/2-NYB

Also available in 1"

24216-1-NYB

HIGH PRESSURE ADJUSTABLE VINE NOZZLE



The high pressure adjustable vine nozzle has an adjustable spray pattern that can be altered by twisting the adjusting nut.

(To suit Vertical Vine Boom)

Maximum pressure: 5000 kpa

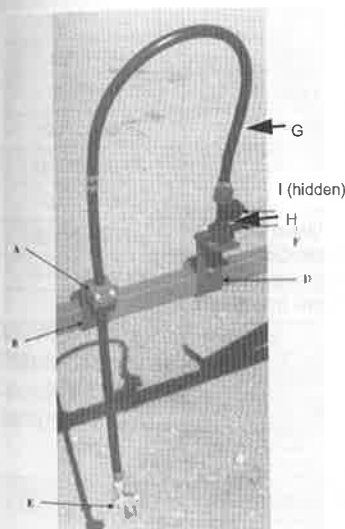
ADJUSTABLE VINE NOZZLE 002700

Nozzle to suit - 1mm 002710

Nozzle to suit - 1.5mm 002715

GOLDACRES DROPPERS

The Goldacres dropper has been designed to provide excellent nozzle adjustment capability. Both horizontal and vertical adjustment is possible and the non-drip check valve serves to eliminate any wastage when spraying is finished. The dropper can be attached to any boom component.



Droppers & single swivel

DROP1

Droppers & double swivel

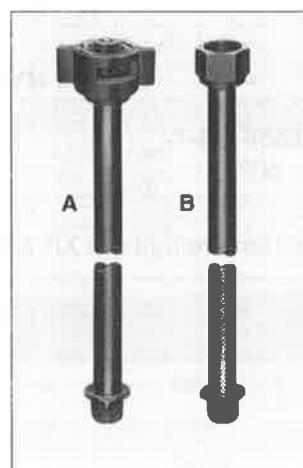
DROP2

POSITION	DESCRIPTION
A	Nylon clamp for vertical height adjustment
B	Dropper bracket for horizontal adjustment
C	Non-drip check valve
D	Nozzle bracket
E	Single or double brass swivel
F	Nozzle body manifold (in-line or end)
G	Dropper hose
H	Quick fitting cap - round hole
I	1/2" flat seat swivel hose barb (hidden)

TeeJet® Hose Drops

Hose drops connect to standard and Quick TeeJet® nozzle bodies and can also be used with swivels. Available in 15" (380mm) and 24" (610mm). Maximum operating pressure 9 bar.

Item	Hose Drop No.	Length	Inlet Connection	Outlet Connection
A	21353-6-15-NYB	15"	Quick TeeJet Type	1/4" NPT (M)
	21353-6-24-NYB	24"		
B	21354-15-NYB	15"	1 1/16" - 16 TeeJet Thread	1/4" NPT (M)
	21354-24-NYB	24"		














Note: QJ1/4T-NYB can be attached to hose drops for use with Quick TeeJet® caps.



Material: Item A - Nylon with Quick TeeJet® cap and EPDM gasket.
Item B - Nylon throughout.

Quick TeeJet® Caps

The Quick TeeJet® caps are designed with grooves that fit locating lug on the nozzle body. Caps are made of nylon and are available for use with all TeeJet® spray tips. Maximum operating pressure of 20 bar. **These caps are only to be used with TeeJet nozzle bodies.**

Type	Part Number Quick TeeJet® Cap Only	Part Number Quick TeeJet® Cap & Seat Gasket Seat	For Use with Spray Tips
	CP25611-* -NY CP25611-9-PP†	25612-* -NYR 25612-9-PP	TeeJet® Flat Spray Tips (Smaller Capacities) Standard -0067 Thru -08 XR -01 Thru -08 DG -015 Thru -05
	CP25609-* -NY	25610-* -NYR	TeeJet® Flat Spray Tips (Larger Capacities) Standard -10 Thru -20 XR -10 Thru -15
	CP25597-* -NY	25598-* -NYR	TJ TwinJet® No. TJ60... Spray Tip
	CP25599-* -NY	25600-* -NYR	Turbo FloodJet® VisiFlo® Spray Tip TK-VS FloodJet® VisiFlo® Spray Tip
	CP25607-* -NY CP25607-9-PP†	25608-* -NYR 25608-9-PP	TK FloodJet® FL FullJet® TX ConeJet® TG Full Cone®
	CP25607-* -NY	-	**Used with Disc-Core Sprays (Insert Core into Seal)
	CP26277-1-NY**	26278-1-NYR**	Ceramic Disc-Core
	-	QJ4676**	Permits use of standard 1/8" and 1/4" nozzles. Can be used for mounting pressure gauge at the nozzle.
	-	QJ19840**	Provides three solid stream orifices of equal capacity.
	-	19843-NYR**	Provides shutoff at nozzle for quick spacing change or change in spray swath.
	D26586-Q5-7-NY**		Provides eight solid stream orifices of equal capacity.

CP23307 TeeJet cap Hardi retrofit suit XR & TT

Colour of Cap	Colour Code	Colour of Cap	Colour Code
Black	1	Green	5
White	2	Yellow	6
Red	3	Brown	7
Blue	4	Orange	8

* Specify colour-code (see chart).

** These Quick TeeJet caps available only in black.

† Polypropylene Quick TeeJet caps available only in grey.

TO ORDER: For cap and seat gasket set, specify set no. & colour code. Example: 25612-3-NYR

For cap only, specify part no. & colour-code. Example: CP25597-4-NY

For seat gasket, specify part no. Example: CP19438-EPR

Quick TeeJet

NOZZLE BODIES ORDERING INFORMATION

FOR DRY BOOMS

QJ100 Series Hose Shank Nozzle Bodies
(Less clamps)



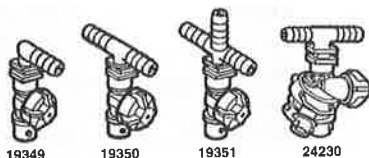
Part Number			To fit Hose I.D.
Single	Double	Triple	
18635-111-406-NYB	18636-112-406-NYB	18637-113-406-NYB	3/8"
18638-111-540-NYB	18639-112-540-NYB	18640-113-540-NYB	1/2"
18719-111-785-NYB	18720-112-785-NYB	18721-113-785-NYB	3/4"

Vari-Spacing Clamps



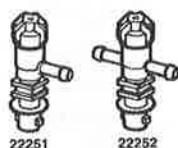
PART NO	TO CLAMP ON
QJ111-1/2	1/2" pipe (13/16" & 7/8" OD Tubings)
QJ1113/4	3/4" pipe (1" & 1 1/16" OD Tubings)
QJ111-1	1" pipe (1 1/8", 1 1/4", & 1 3/8" OD Tubings)
QJ111-11/4	1 1/4" pipe (1 9/16" & 1 11/16" OD Tubings)
QJ111SQ-3/4	3/4" Square Tubing (19mm)
QJ111SQ-1	1" Square Tubing (25mm)
QJ111SQ-11/4	1 1/4" Square Tubing (32mm)
QJ111SQ-11/2	1 1/2" Square Tubing (38mm)

QJ200 Series Hose Shank Diaphragm Check Valves (less clamps)



PART NUMBER			TO FIT HOSE I.D.
SINGLE	DOUBLE	TRIPLE	
19349-211-406-NYB	19350-212-406-NYB	19351-213-406-NYB	3/8"
19349-211-540-NYB	19350-212-540-NYB	19351-213-540-NYB	1/2"
24230-1-540 NYB	24230-2-540 NYB		1/2"
19349-211-785-NYB	19350-212-785-NYB	19351-213-785-NYB	3/4"
24230-1-785-NYB	24230-2-785-NYB		3/4"

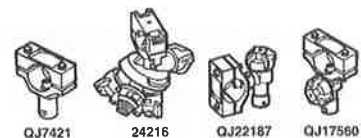
QJ300 Series Hose Shank Diaphragm Check Valves
Hi-Pressure Quick TeeJet Nozzle Body (up to 20 bar) - (less clamps)



PART NUMBER		TO FIT HOSE I.D.
SINGLE	DOUBLE	
22251-311-375-NYB	22252-312-375-NYB	3/8"
22251-311-500-NYB	22252-312-500-NYB	1/2"
22251-311-750-NYB	22252-312-750-NYB	3/4"

FOR WET BOOMS

Split Eyelets

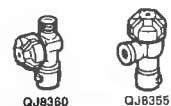


PART NUMBER	PIPE CONNECTION
QJ17560-1/2-NYB	1/2" pipe
QJ17560-3/4-NYB	3/4" pipe
QJ17560-1-NYB	1" pipe
QJ7421-1/2-NYB	1/2" pipe
QJ7421-3/4-NYB	3/4" pipe
QJ7421-1-NYB	1" pipe
QJ22187-1/2-NYB	1/2" pipe
QJ22187-3/4-NYB	3/4" pipe
QJ22187-1-NYB	1" pipe
242161/2NYB	1/2" pipe
242163/4NYB	3/4" pipe
24216-1-NYB	1" pipe

All wet boom nozzle assemblies mount to a 9.5mm hole drilled in pipe or tubing.

Diaphragm Check Valves

Diaphragm Check Valve
Quick TeeJet Nozzle Body Assembly



PART NUMBER	PIPE CONNECTION
QJ8360-NYB	1/4" NPT (M)
QJ8355-1/8-NYB	1/8" NPT (F)
QJ83551/4NYB	1/4" NPT (M)

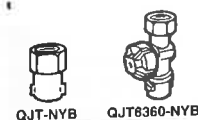
Nozzle Body

Quick TeeJet Nozzle Body



PART NUMBER	PIPE CONNECTION
QJ1/4TT-NYB	1/4" NPT (M)
QJ1/4T-NYB	1/4" NPT (F)
22674-1/4-NYB	1/4" NPT (M)

ADAPTERS FOR RETROFITTING



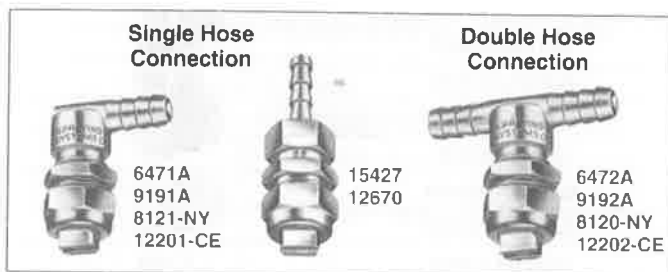
PART NUMBER	TO FIT
QJT-NYB	11/16" - 16 TeeJet Thread
QJT8360-NYB	11/16" - 16 TeeJet Thread

TeeJet®**HOSE SHANK NOZZLE BODIES****FOR OPERATING PRESSURES UP TO 9 BAR**

Brass, aluminium, stainless steel, nylon and Celcon/
stainless steel hose shank nozzle bodies.

TO ORDER:

To order body assembly only; specify hose shank
assembly number. Example: 12202-CE-1062

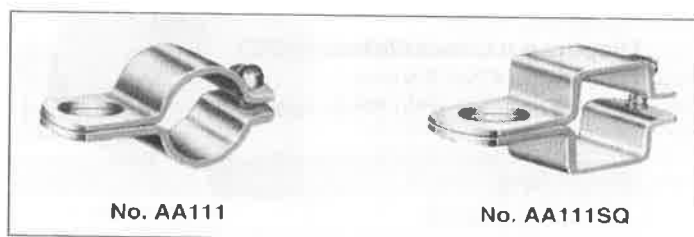


Hose Shank Body Assembly No.		To Fit Hose I.D.	Material
Single Hose Shank	Double Hose Shank		
15427-296		1/4"	Brass
6471A-400TD	6472A-400TD	3/8"	
9191A-531TD	9192A-531TD	1/2"	
6471-ALEF-C400TD	6472-ALEF-C400TD	3/8"	Aluminum Electrofilmed
9191-ALEF-C531TD	9192-ALEF-C531TD	1/2"	
6471-SS-C400TD	6472-SS-C400TD	3/8"	Stainless Steel
9191-SS-C531TD	9192-SS-C531TD	1/2"	
8121-NYB-406TD	8120-NYB-406TD	3/8"	Nylon
8121-NYB-540TD	8120-NYB-540TD	1/2"	
12670-406TD		3/8"	
12201-CE-785TD	12202-CE-785TD	3/8"	Celcon Hose Shank Stainless Steel Threaded Outlet
12201-CE-1062TD	12202-CE-1062TD	1"	

Note: Spray tip not included.

TeeJet®**CLAMP ASSEMBLIES**

Consists of Upper and Lower Clamps and Bolt for
use with hose shank nozzle bodies shown above.



Part No.	To Clamp On
AA111-1/2	1/2" Pipe (13/16" & 7/8" O.D. Tubings)
AA111-3/4	3/4" Pipe (1" & 1 1/16" O.D. Tubings)
AA111-1	1" Pipe (1 1/4", 1 1/2" & 1 5/8" O.D. Tubings)
AA111-1 1/4	1 1/4" Pipe (1 5/8" & 1 7/8" O.D. Tubings)
AA111SQ-1	1" Square Tubing
AA111SQ-1 1/4	1 1/4" Square Tubing

TeeJet®**SPLIT EYELET NOZZLE BODIES****FOR WET BOOMS**

- ~ Mounting on 1/2", 3/4" or 1" pipe or tubing.
- ~ Mounts to 9.5mm hole drilled in pipe or tubing.



Split Eyelet Assembly No.	Nozzle Body Material	To Clamp On
7421-1/2T	Brass	1/2" Pipe 13/16" O.D. Tubing 7/8" O.D. Tubing
7421-1/2T-SS	Stainless Steel	
7421-1/2T-NYB	Nylon	
25775-1/2T-NYB	Nylon	3/4" Pipe 1" O.D. Tubing 1 1/16" O.D. Tubing
7421-3/4T	Brass	
7421-3/4T-SS	Stainless Steel	
7421-3/4T-NYB	Nylon	1" Pipe 1 1/4" O.D. Tubing 1 3/8" O.D. Tubing
25775-3/4T-NYB	Nylon	
7421-1T	Brass	
7421-1T-SS	Stainless Steel	
7421-1T-NYB	Nylon	
25775-1T-NYB	Nylon	

HOW TO ORDER: Specify split eyelet assembly
no. Example: 7421-1/2T-SS

TeeJet®

SWIVEL NOZZLE BODIES

QUICK TEEJET® SWIVEL NOZZLE BODIES

QJ8600 swivel Quick TeeJet® nozzle body assemblies provide the same spray tip adjustability of a standard TeeJet® threaded swivel plus the quick change and self-aligning

Part No.		Pipe Thread
Single Swivel	Double Swivel	
QJ8600-1/4-NYB	QJ8600-2-1/4-NYB	1/4" NPT (F)

SWIVEL NOZZLE BODIES

TeeJet® swivel nozzle bodies are primarily for use with tips employed in rowcrop spraying. A locknut holds swivel bodies firmly in position at selected spray projection angle so they are not affected by jarring and vibration. For use at pressures up to 9 bar.

Note: Swivels do not include tips, strainers, or caps.

Item	Swivel TeeJet Body Assembly No.	Inlet Pipe Conn. Female NPT	Material	Swivel Arc Range
A	4183-¼T	¼"	Brass	280°
B	4183B-¼TA			Fixed 45° Position
C	4202-2-¼T			280°
D	5000-¼T			
E	5540-¼TT	¼"		
F	5932-2-¼T	¼"		
G	6240-¼TT	¼"	Nylon	360°
H	7450-2T	¼"		
I	7620-T			
J	8600-¼T-NYB			
K	8600-2-¼T-NYB			

* 1/4" NPT (M) inlet connection



QJ8600-2-1/4-NYB



QJ8600-1/4-NYB



A
Type 4183A
Single Swivel Nozzle



B
Type 4183B 45°
Fixed Position Nozzle



C
Type 4202
Double Swivel Nozzle



D
Type 5000
Single Swivel Nozzle



E*
Type 5540
Single Swivel Nozzle



F
Type 5932
Double Swivel Nozzle
1/4" NPT female bottom outlet



G*
Type 6240
Double Swivel Nozzle



H
Type 7450 Compact
Double Swivel Nozzle



I
Type 7620 Compact
Single Swivel Nozzle



J
Type 8600 Nylon
Single Swivel Nozzle



K
Type 8600-2 Nylon
Double Swivel Nozzle

TO ORDER: Example: 4202-2-1/4T - Brass

CAM LEVER COUPLINGS



MALE ADAPTOR - FEMALE THREAD

3/4"	75A
1"	100A
1 1/2"	150A
2"	200A
3"	300A



FEMALE COUPLER - MALE THREAD

3/4"	75B
1"	100B
1 1/2"	150B
2"	200B
3"	300B



FEMALE COUPLER - HOSE SHANK

1/2"	50C
3/4"	75C
1"	100C
1 1/2"	150C
2"	200C
3"	300C



FEMALE COUPLER - FEMALE THREAD

3/4"	75D
1"	100D
1 1/2"	150D
2"	200D
3"	300D



MALE ADAPTOR - HOSE SHANK

1/2"	50E
3/4"	75E
1"	100E
1 1/2"	150E
2"	200E
3"	300E



MALE ADAPTOR - MALE THREAD

3/4"	75F
1"	100F
1 1/2"	150F
2"	200F
3"	300F



PLUG FOR FEMALE COUPLER

3/4"	75PL
1"	100PL
1 1/2"	150PL
2"	200PL
3"	300PL

PL



CAP

CAP FOR MALE ADAPTOR

3/4"	75CAP
1"	100CAP
1 1/2"	150CAP
2"	200CAP
3"	300CAP

Seals for Female couplers and Cap



75SEAL



100SEAL

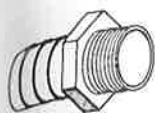


150SEAL



200SEAL

NYLON FITTINGS



MALE TAPER PIPE THREAD HOSE BARBS

	THREAD	BARB
A14	1/4"	1/4"
A1438	1/4"	3/8"
A1412	1/4"	1/2"
A3812	3/8"	1/2"
A12	1/2"	1/2"
A1214	1/2"	1/4"
A1234	1/2"	3/4"
A12100	1/2"	1"
A3412	3/4"	1/2"
A34	3/4"	3/4"
A34100	3/4"	1"
A34114	3/4"	1 1/4"
A10034	1"	3/4"
A100	1"	1"
A100114	1"	1 1/4"
A11434	1 1/4"	3/4"
A114100	1 1/4"	1"
A114	1 1/4"	1 1/4"
A114112	1 1/4"	1 1/2"
A112	1 1/2"	1 1/2"
A112114	1 1/2"	1 1/4"
A200112	2"	1 1/2"
A200	2"	2"



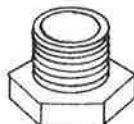
ELBOWS: MALE TAPER PIPE THREAD HOSE BARB

	THREAD	BARB
EL1438	1/4"	3/8"
EL1412	1/4"	1/2"
EL38	3/8"	3/8"
EL3812	3/8"	1/2"
EL1214	1/2"	1/4"
EL1238	1/2"	3/8"
EL12	1/2"	1/2"
EL1234	1/2"	3/4"
EL3414	3/4"	1/4"
EL3412	3/4"	1/2"
EL34	3/4"	3/4"
EL34100	3/4"	1"
EL100	1"	1"
EL10034	1"	3/4"
EL100114	1"	1 1/4"
EL114100	1 1/4"	1"
EL114	1 1/4"	1 1/4"
EL114112	1 1/4"	1 1/2"
EL112	1 1/2"	1 1/2"
EL200112	2"	1 1/2"
EL200	2"	2"



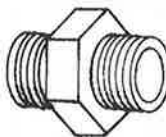
ELBOWS: FEMALE TAPER PIPE THREAD HOSE BARBS

	THREAD	BARB
EL3412F	3/4"	1/2"
EL34F	3/4"	3/4"



HEX PLUG: MALE TAPER PIPE THREADS

	THREAD
F14	1/4"
F12	1/2"
F34	3/4"
F100	1"
F114	1 1/4"
F112	1 1/2"



NIPPLES: MALE TAPER PIPE THREADS

	THREAD
M14	1/4"
M12	1/2"
M34	3/4"
M100	1"
M114	1 1/4"
M112	1 1/2"

REDUCING NIPPLES

	THREAD	THREAD
M1418	1/8"	1/4"
M1214	1/4"	1/2"
M1238	3/8"	1/2"
M3438	3/8"	3/4"
M3412	1/2"	3/4"
M10034	3/4"	1"
M114100	1 1/4"	1"
M112100	1 1/2"	1"
M112114	1 1/2"	1 1/4"
M200100	2"	1"
M200112	2"	1 1/2"

NYLON FITTINGS

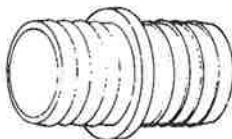


REDUCING BUSHINGS

	THREAD	THREAD
RB1238	1/2"	3/8"
RB3414	3/4"	1/4"
RB3412	3/4"	1/2"
RB10014	1"	1/4"
RB10012	1"	1/2"
RB10034	1"	3/4"
RB11434	1 1/4"	3/4"
RB114100	1 1/4"	1"
RB112114	1 1/2"	1 1/4"
RB200112	2"	1 1/2"

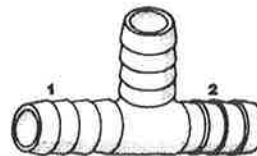
STREET ELBOWS: FEMALE TAPER
PIPE THREAD AND MALE TAPER PIPE
THREAD

SE12	1/2"FPT	1/2"MPT
SE34	3/4"FPT	3/4"MPT
SE100	1"FPT	1"MPT
SE114	1 1/4"FPT	1 1/4"MPT
SE112	1 1/2"FPT	1 1/2"MPT

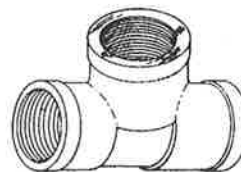


STANDARD HOSE MENDERS

	BARB	BARB
SHM14	1/4"	1/4"
SHM12	1/2"	1/2"
SHM34	3/4"	3/4"
SHM100	1"	1"
SHM114	1 1/4"	1 1/4"

INSERT TEES: THREE
HOSE BARBS

	BARB SIZE		
	1	2	3
T12	1/2"	1/2"	1/2"
T34	3/4"	3/4"	3/4"
T3412	1/2"	1/2"	3/4"
T100	1"	1"	1"

TEE: FEMALE TAPER PIPE
THREADS

TT12	1/2"x1/2"x1/2"
TT34	3/4"x3/4"x3/4"
TT100	1"x1"x1"
TT114	1 1/4"x1 1/4"x1 1/4"
TT112	1 1/2"x1 1/2"x1 1/2"

TEE: ONE MALE TAPER PIPE THREAD
& TWO HOSE BARBS

	THREAD	BARB	BARB
T12T	1/2"	1/2"	1/2"
T34T	3/4"	3/4"	3/4"

FEMALE ELBOWS

EL112F	1 1/2" x 1 1/2"
EL200F	2" x 2"

NYLON FITTINGS



HOSETAIL FOR FLY NUT

1 1/2" to suit 25mm hose **106625**
 1 1/2" to suit 32mm hose **106633**
 1 1/2" to suit 38mm hose **106638**



90° HOSETAIL FOR FLY NUT

1 1/4" to suit 25mm hose **116525**
 1 1/4" to suit 32mm hose **116533**
 1 1/2" to suit 25mm hose **116625**
 1 1/2" to suit 32mm hose **116633**
 1 1/2" to suit 38mm hose **116640**
 2" to suit 50mm hose **116752**



45° HOSETAIL FOR FLY NUT

1 1/2" to suit 40mm hose **117640**



NIPPLES

1" **250040**
 1 1/2" **250060**



O RING

1 1/2" **G10061**



MALE-FEMALE REDUCTION

3/4" - 1 1/4" **245035**



3/4 4-WAY CROSS

3/4" **CR075**



BACK NUT

3/4" **205030**



FLY NUT

1" **200040**
 1 1/4" **200050**
 1 1/2" **200060**
 2" **200070**



45° HOSETAIL MALE THREAD

1 1/2" **114640**



FEMALE 3/4" HOSE BARB

3/4" **HB075**



PIPE CAP

3/4" **CAP075**



PIPE COUPLING

3/4" **CPLG075**
 1" **CPLG100**
 1 1/2" **CPLG150**
 2" **CPLG200**



ONE WAY VALVE

1 1/4" **95 5024 00**
 1 1/2" **95 5025 00**

BANJO MANIFOLD FITTINGS



Part Number	Description
M100TEE	1" manifold tee
M200100TEE	2" x 1" manifold tee
M200TEE	2" manifold tee



Part Number	Description
M100075BRB90	1" flange x 3/4" hose barb 90° elbow
M100BRB90	1" flange x 1" hose barb 90° elbow
M100125BRB90	1" flange x 1 1/4" hose barb 90° elbow
M200100BRB90	2" flange x 1" hose barb 90° elbow
M200125BRB90	2" flange x 1 1/4" hose barb 90° elbow
M200150BRB90	2" flange x 1 1/2" hose barb 90° elbow
M200BRB90	2" flange x 2" hose barb 90° elbow



Part Number	Description
M100075BRB	1" flange x 3/4" hose barb
M100BRB	1" flange x 1" hose barb
M100125BRB	1" flange x 1 1/4" hose barb
M200100BRB	2" flange x 1" hose barb
M200125BRB	2" flange x 1 1/4" hose barb
M200150BRB	2" flange x 1 1/2" hose barb
M200BRB	2" flange x 2" hose barb



Part Number	Description
FC100	1" worm screw clamp
FC200	2" worm screw clamp
M100G	1" EPDM gasket
150G	2" EPDM gasket
200G	2" full port gasket EPDM



Part Number	Description
M100PLG	1" flanged plug
M200PLG	2" flanged plug
M220PLG	2" full port flange plug
M100PLG025	1" flanged plug with 1/4" FPT
M200PLG018	2" flanged plug with 1/8" FPT
M200PLG025	2" flanged plug with 1/4" FPT
M200PLG038	2" flanged plug with 3/8" FPT
M200PLG050	2" flanged plug with 1/2" FPT
M200PLG075	2" flanged plug with 3/4" FPT
M200PLG100	2" flanged plug with 1" FPT



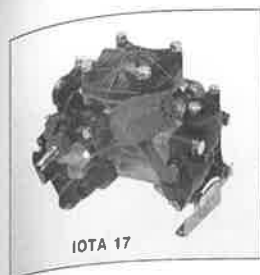
Part Number	Description
M100075FPT	1" manifold x 3/4" female thread
M100FPT	1" manifold x 1" female thread
M100125MPT	1" manifold x 1 1/4" male thread
M200100MPT	2" manifold x 1" male thread
M200125MPT	2" manifold x 1 1/4" male thread
M200150MPT	2" manifold x 1 1/2" male thread
M200MPT	2" manifold x 2" male thread



Part Number	Description
M100CPG90	1" flange x 1" flange 90°
M200CPG90	2" flange x 2" flange 90°

Part Number	Description
M100CR	1" flanged cross
M200CR	2" flanged cross

UDOR PUMPS



IOTA 17



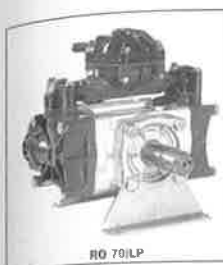
KAPPA 30



KAPPA 120



ZETA 85



RO 70/LP



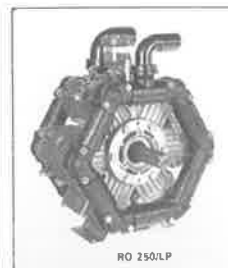
RO 106/LP



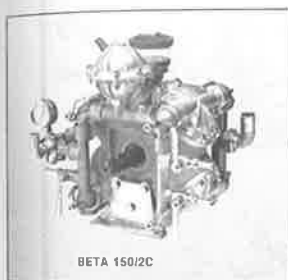
RO 121/LP



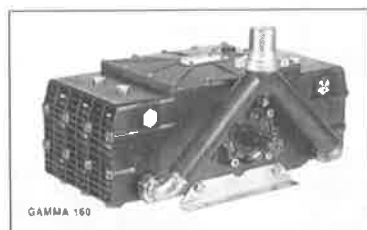
RO 160/LP



RO 250/LP



BETA 150/2C



GAMMA 160



GAMMA 240

MODEL	IOTA 17	KAPPA 30	KAPPA 120	ZETA 85	RO70	RO106	RO121	RO160	RO250	BETA15 02C	GAMMA 160	GAMMA 240
L/Min	17.2	33.5	124	84	78	105	120	158	248	154.5	165	238
HP	0.8	2.6	16.6		4.4	6.3	7	9.6	14.4	22	23.6	35.7
KW	0.6	1.91	12.2		3.23	4.63	5.15	7.05	10.58	16.17	17.34	26.23
BAR	17	30	50	20	20	20	20	20	20	50	60	50
PSI	242	426	710	284	284	284	284	284	284	710	852	710
RPM	600	550	550	550	550	550	550	550	550	550	550	550
KG	3	9.1	36	14	11.5	16	16	22	31	52	46.5	46.5
L x W x H (mm)	209x190x 207	270x277 x328	363x480 x418	268x279 x294	322x270 x285	357x290 x300	357x290 x300	300x395 x427	314x371 x449	555x385 x415	438x540 x313	438x540 x313

UDOR PUMP PARTS

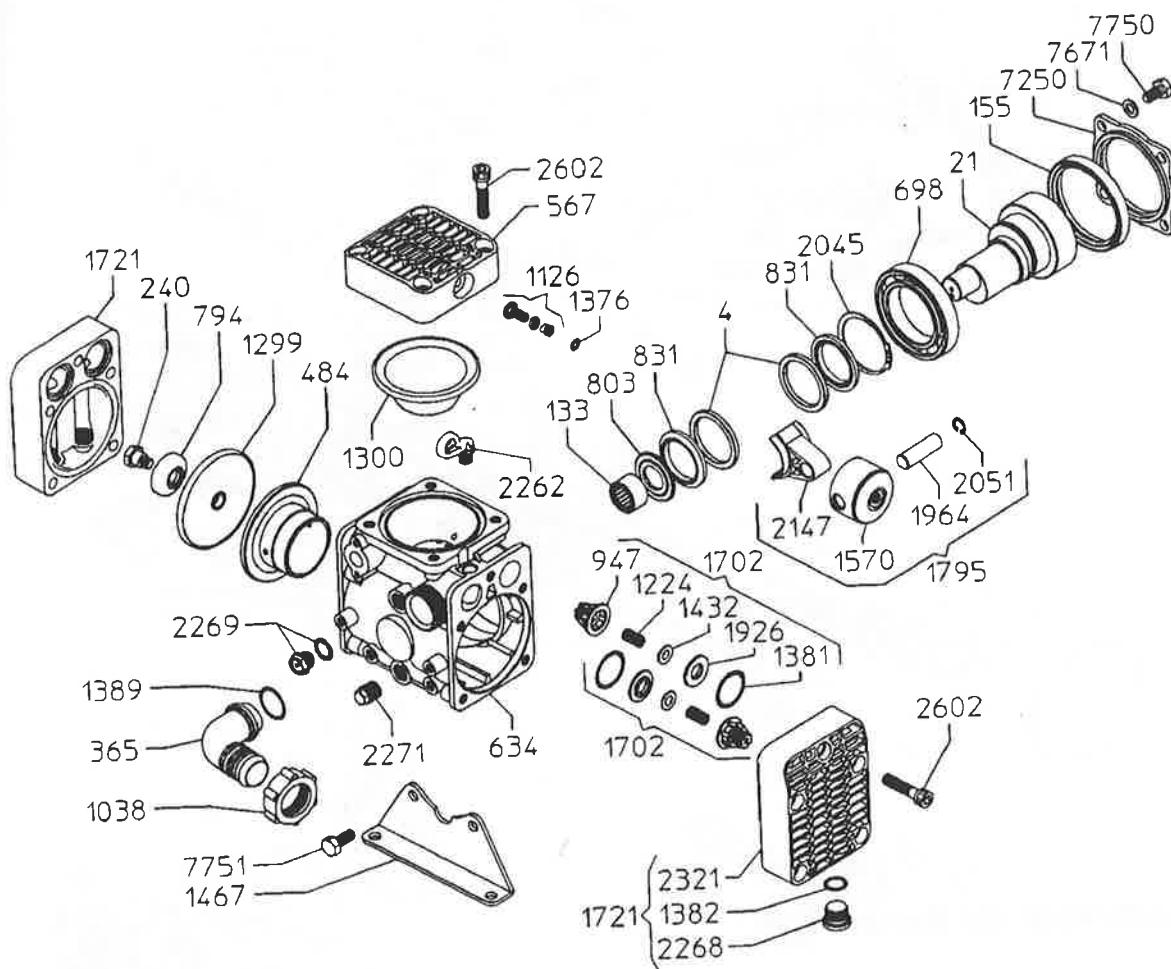
Goldacres carries an extensive range of Udor pump parts. For part numbers of Udor parts, see parts listing after individual UDOR pump pages.

KAPPA 30



KAPPA 30

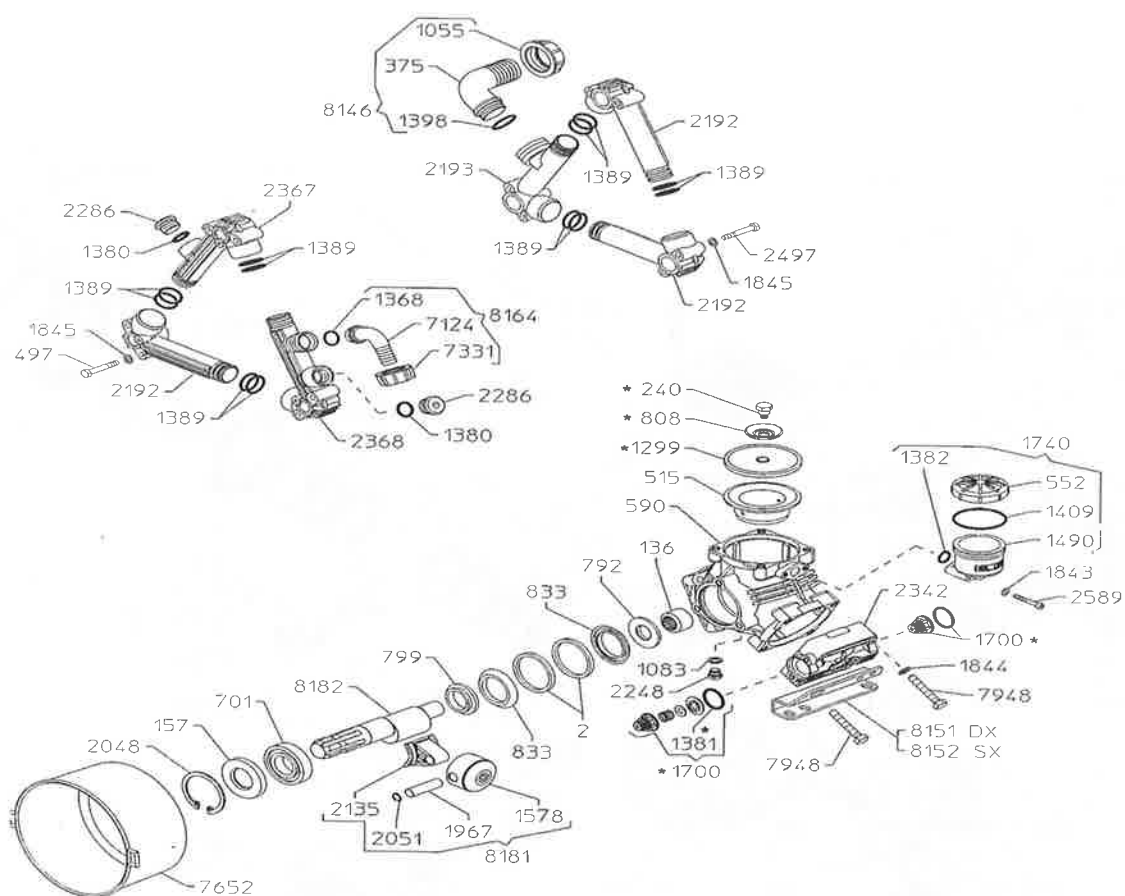
Maximum pump capacity:	33.5 l/min
Maximum pump speed:	540 RPM
Maximum pressure capacity:	30 bar (426 psi)
Maximum power requirement:	1.91 KW (2.6 HP)
Oil Type:	Motor Oil SAE 30W40
Inlet:	1 1/4"
Outlet:	3/4"



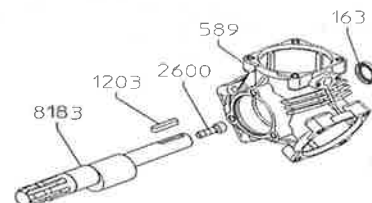
ZETA 85



Maximum pump capacity: 84 l/min
 Maximum pump speed: 540 RPM
 Maximum pressure capacity: 20 bar (284 PSI)
 Maximum power requirement: 4.1 HP
 Oil Type: Motor Oil SAE 30W40

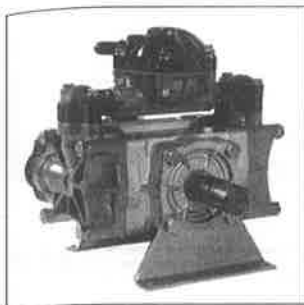


Pump repair kits also available.

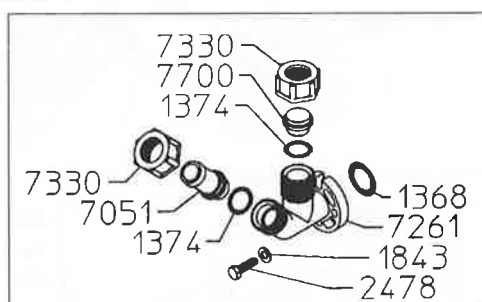
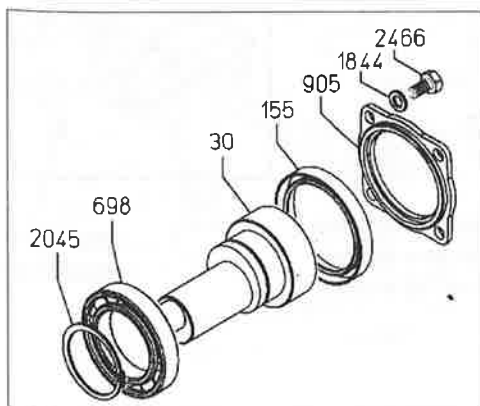
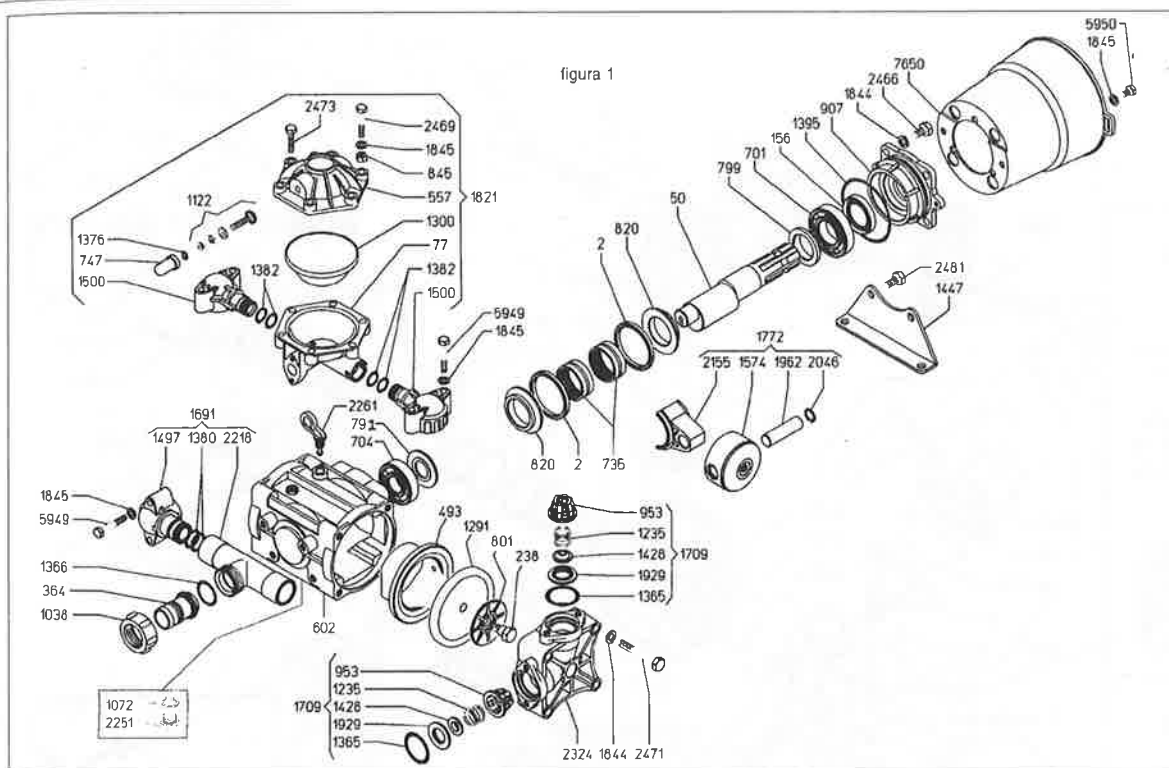


LOW PRESSURE DIAPHRAGM PUMPS

R070



Maximum pump capacity: 78 l/min
 Maximum pump speed: 540 RPM
 Maximum pressure capacity: 20 bar (284 PSI)
 Maximum power requirement: 3.4 KW (4.6 HP)
 Oil Type: Motor Oil SAE 30W40
 Inlet: 1 1/4"
 Outlet: 3/4"



Pump repair kits are also available

LOW PRESSURE DIAPHRAGM PUMPS

RO106 & RO121



	RO106	RO121
Maximum pump capacity:	105 l/min	120 l/min
Maximum pump speed:	540 RPM	540 RPM
Maximum pressure capacity:	20 bar (284 PSI)	20 bar (284 PSI)
Maximum power requirement:	5.36 KW (7.3HP)	6.24 KW (8.49HP)
Oil Type:	Motor Oil SAE 30W40	
Inlet:	1 1/4"	1 1/4"
Outlet:	1" or 3/4"	1" or 3/4"

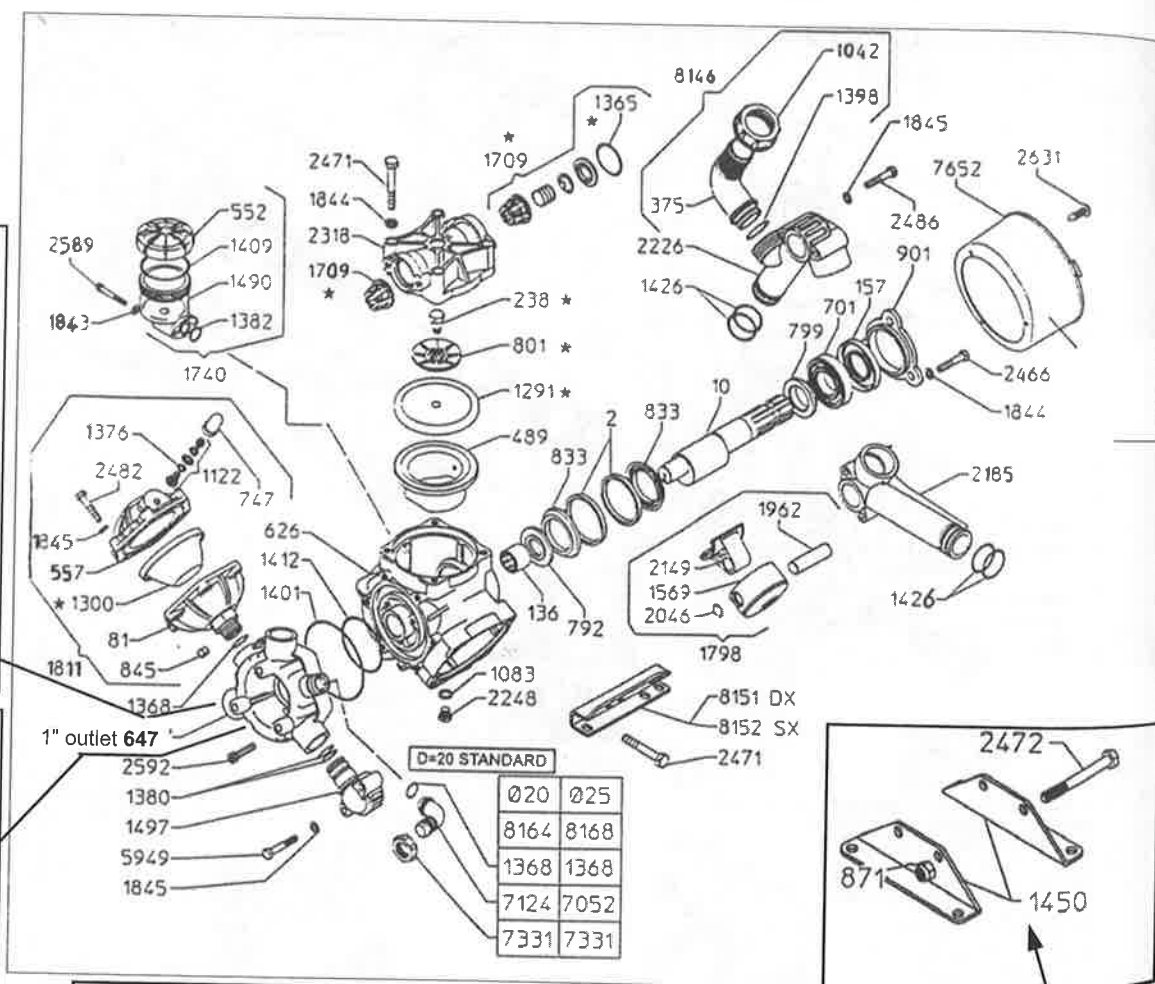
649 delivery manifold

Original style delivery manifold (3/4" outlet)
Refer bottom right hand table page 99 for pressure fittings to suit

**651 delivery manifold**

To 2000 model delivery manifold. (3/4" outlet)

Please note:
651 manifold has 3/4" male thread.
Nut & tail to suit
3/4" Elbow **0379**
3/4" Nut **1049**



RO 121 fitted with these two parts, in lieu of Part No's. 489 and 10 above.

Previous model mounting brackets

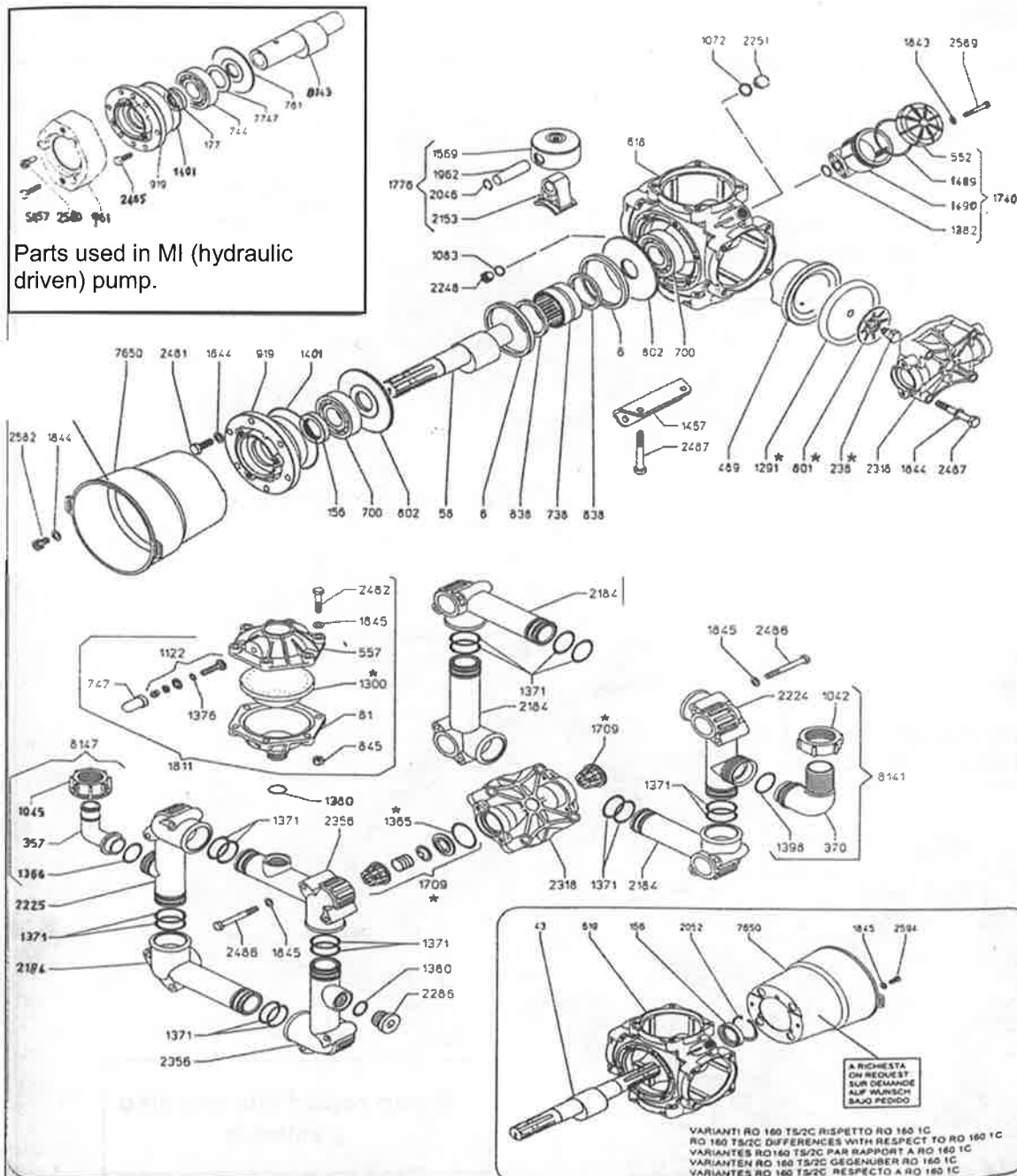
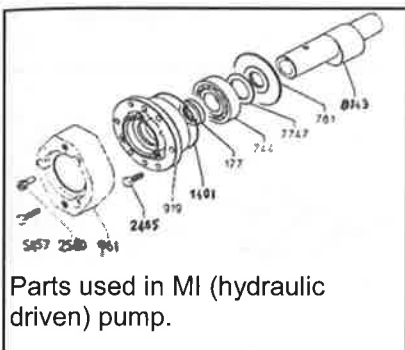
Pump repair kits are also available

LOW PRESSURE DIAPHRAGM PUMPS

RO160

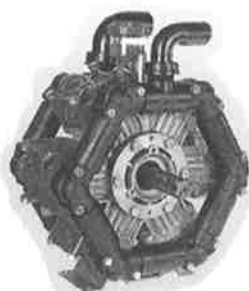


Maximum pump capacity: 158 l/min
 Maximum pump speed: 540 RPM
 Maximum pressure capacity: 20 bar (284 PSI)
 Maximum power requirement: 7.05 KW (9.6HP)
 Oil Type: Motor Oil SAE 30W40
 Inlet: 1 1/2"
 Outlet: 1"



LOW PRESSURE DIAPHRAGM PUMPS

RO 210 & RO250



Maximum pump capacity:
Maximum pump speed:
Maximum pressure capacity:
Maximum power requirement:
Oil Type:
Inlet:
Outlet:

RO 210

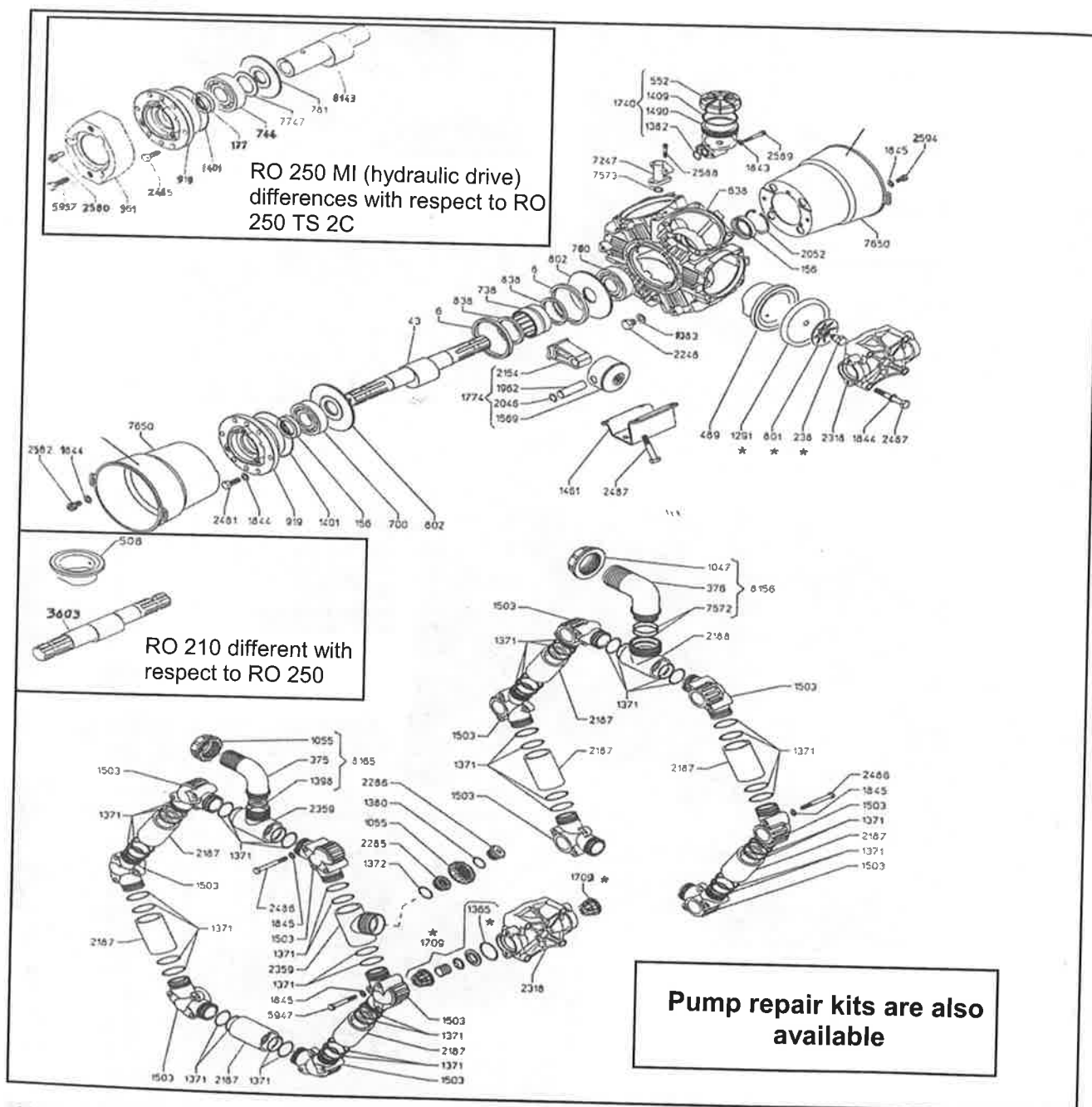
209 l/min
540 RPM
20 bar (284 PSI)
7.21 KW (9.82 HP)

Motor Oil SAE 30W40
2"
1 1/2"

RO 250

239
540 RPM
20 bar (284 PSI)
8.09 KW (11.01HP)

2"
1 1/2"



LOW PRESSURE DIAPHRAGM PUMPS

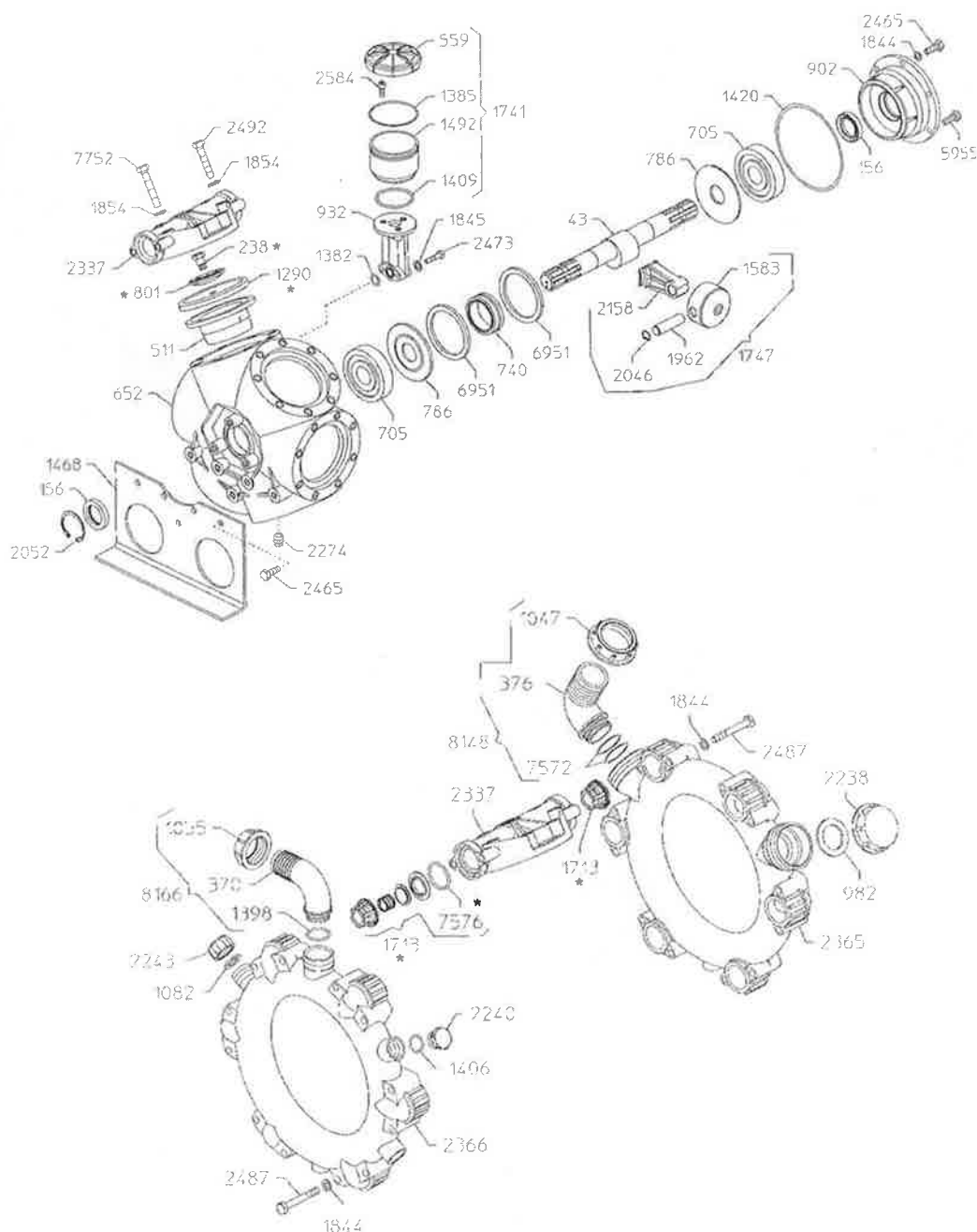
RO 320



Maximum pump capacity:	318 l/min
Maximum pump speed:	540 RPM
Maximum pressure capacity	20 bar/ 290 psi
Oil Type:	Motor Oil SAE 30W40
Inlet:	2"
Outlet:	1 1/2"

RO 320

10



KAPPA 120 & 150



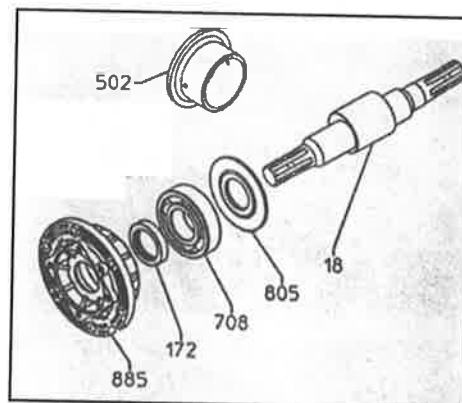
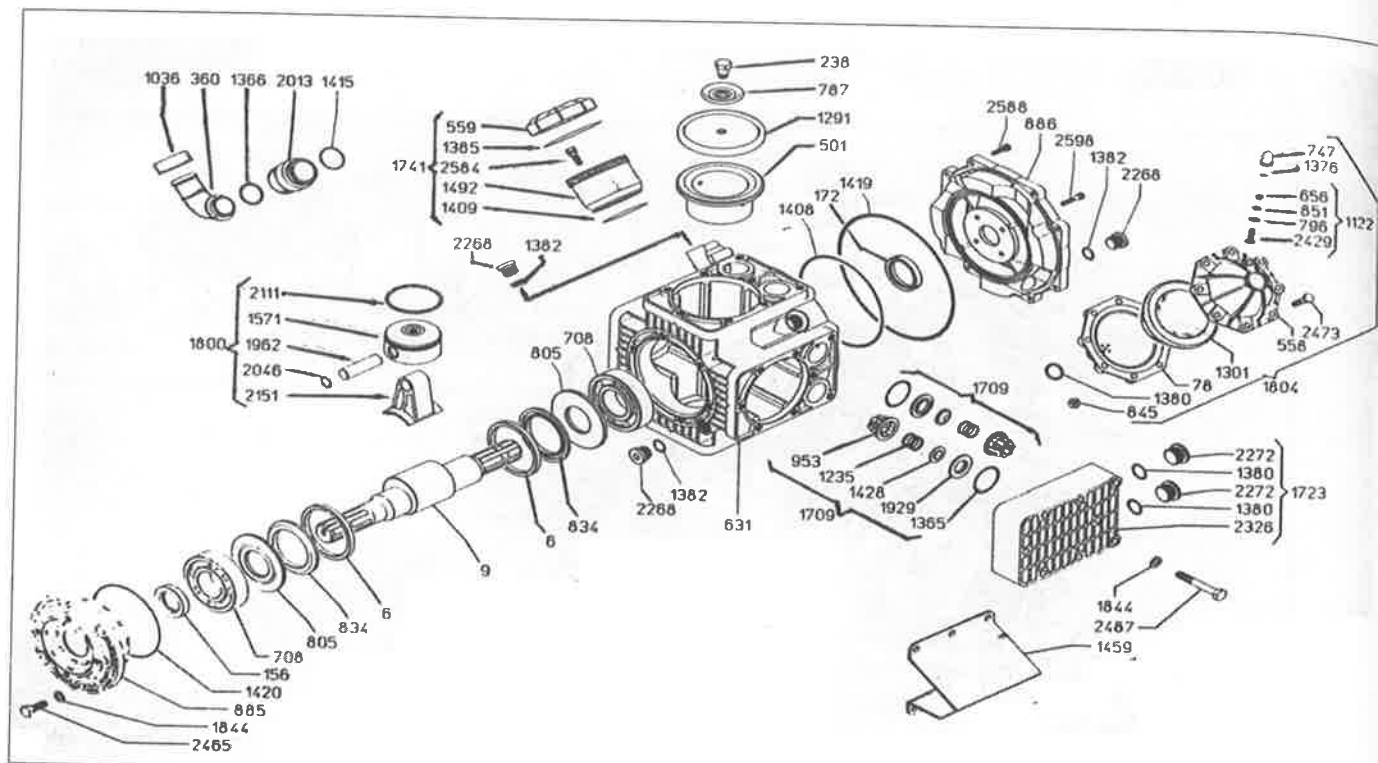
Maximum pump capacity:
Maximum pump speed:
Maximum pressure capacity:
Maximum power requirement:
Oil Type:
Inlet:
Outlet:

Kappa 120

131 l/min
540 RPM
50 bar (710 psi)
11.8 KW (16 HP)
Motor Oil SAE 30W40
1 1/2"
3/4"

Kappa 150

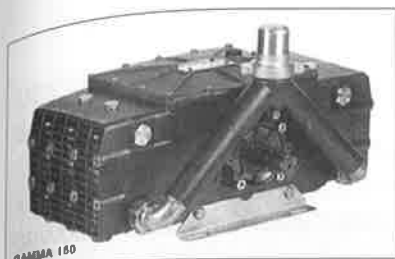
153 l/min
540 RPM
50 bar (710 psi)
14.3 KW (19.5 HP)
1 1/2"
3/4"



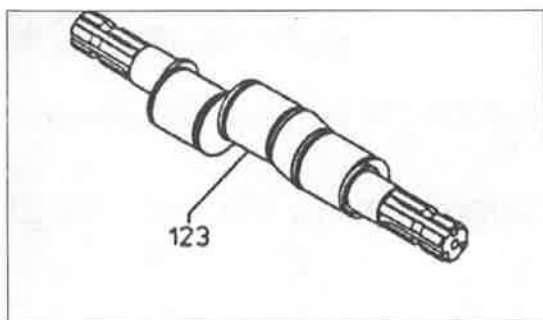
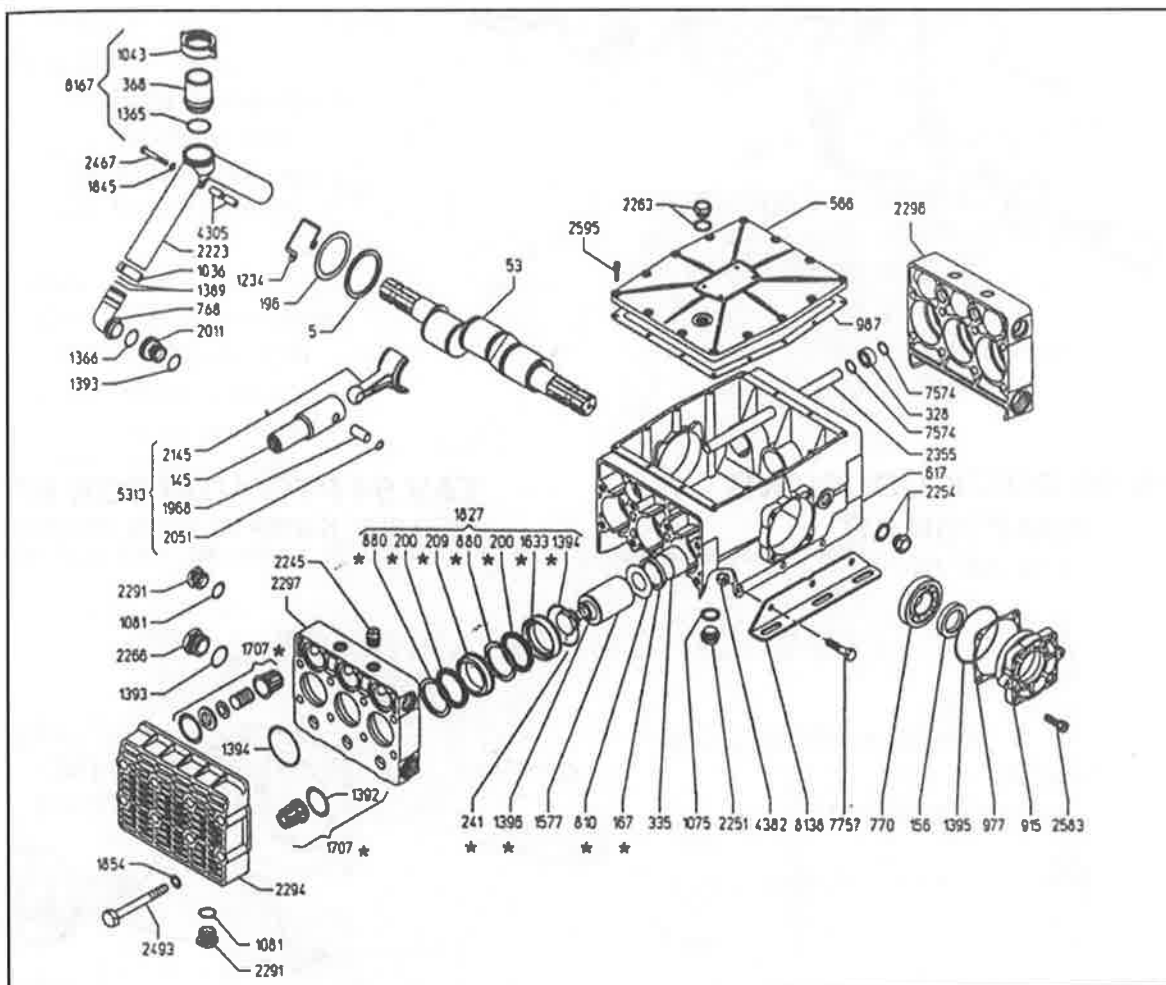
Kappa 150 difference with respect to Kappa 120 pump.

HIGH PRESSURE PLUNGER (PISTON) PUMPS

GAMMA 160 & GAMMA 240



	160	240
Maximum pump capacity:	151 l/min	235 l/min
Maximum pump speed:	540 RPM	540 RPM
Maximum pressure capacity:	60 bar (852 psi)	50 bar (710 psi)
Maximum power requirement:	16.8 KW (22.9HP)	23.2 KW (31.5 HP)
Oil Type:	Motor Oil SAE 30W40	

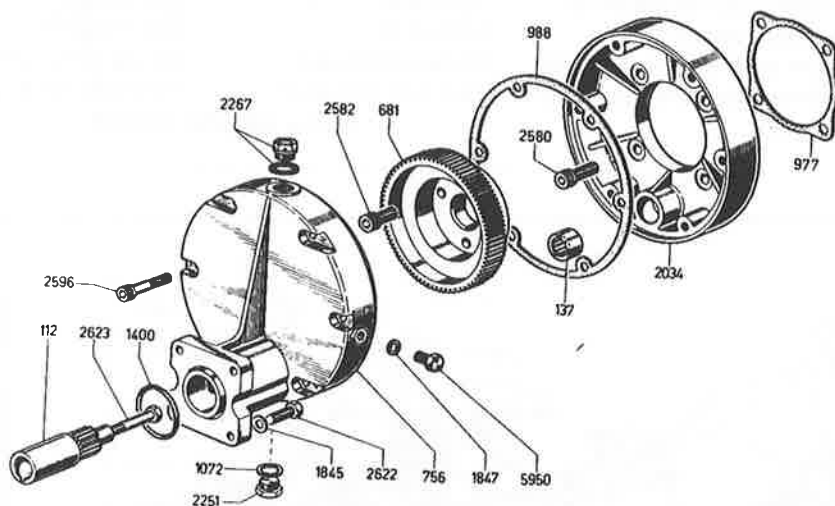


Gamma 240 TS/2C
differences in regard
to Gamma 160
TS/2C.



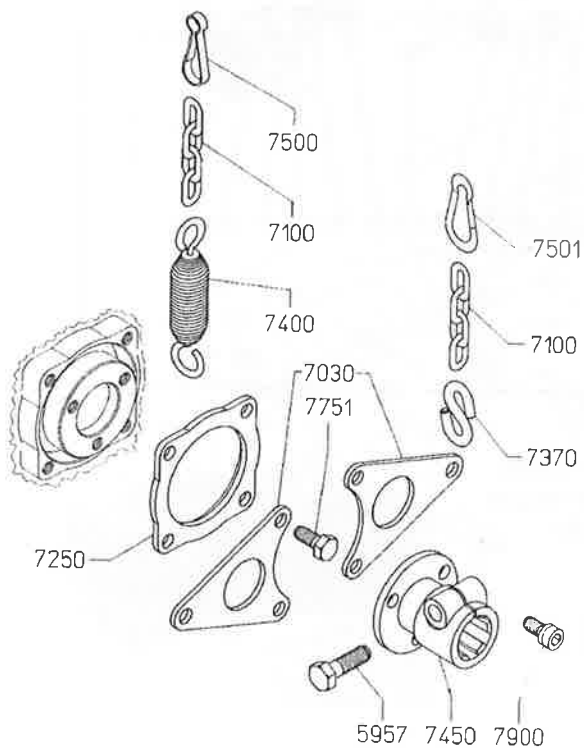
PUMP DRIVE ACCESSORIES

TAV 72 GEARBOX

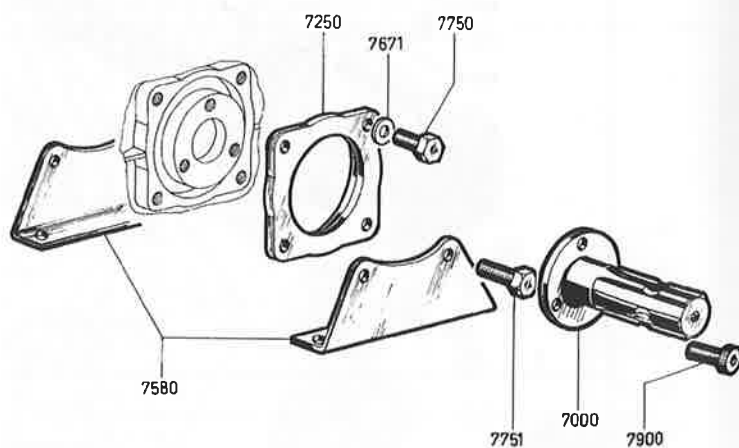


- 6:1 Reduction gearbox.
 - Used in conjunction with:
 - Kappa 30 & 3.5HP engine.
 - RO70 & 5HP engine.
 - RO106 & 5HP engine.
- Oil Type: Gear oil SAE 80W90

TAV 90 QUICK COUPLING ADAPTOR KIT (TO SUIT RO70)



TAV 94 PTO ADAPTOR KIT (TO SUIT KAPPA 30, RO70, RO106)



UDOR PUMP REPAIR KITS

COMPLETE REPAIR KITS (KIT-#-C)

UDOR RO70

2	x	1291 Side diaphragms
1	x	1300 Air diaphragm
1	x	0156 Front oil seal
4	x	1235 Valve springs
4	x	1365 Valve O rings

UDOR ZETA 85

3	x	1299 Side diaphragms
1	x	0156 Front oil seal
6	x	1224 Valve springs
6	x	1381 Valve O rings

UDOR RO160

4	x	1291 Side diaphragms
1	x	1300 Air diaphragm
1	x	0156 Front oil seal
8	x	1235 Valve springs
8	x	1365 Valve O rings

UDOR RO106 & RO121

3	x	1291 Side diaphragms
1	x	1300 Air diaphragm
1	x	0157 Front oil seal
1	x	1401 O ring
1	x	1412 O ring
6	x	1235 Valve springs
6	x	1365 Valve O rings

UDOR RO 210 & 250

6	x	1291 Side diaphragms
1	x	0156 Front oil seal
12	x	1235 Valve springs
12	x	1365 Valve O rings
1	x	1401 O ring

When ordering kits, order as KIT-RO70-C (for complete pump kit)

DIAPHRAGM KITS (KIT-#-D)

UDOR RO70

2	x	1291 Side diaphragms
1	x	1300 Air diaphragm

UDOR ZETA 85

3	x	1299 Side diaphragms
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UDOR RO160

4	x	1291 Side diaphragms
1	x	1300 Air diaphragm

UDOR RO106 & RO121

3	x	1291 Side diaphragms
1	x	1300 Air diaphragm

UDOR RO210 & 250

6	x	1291 Side diaphragms
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When ordering kits, order as KIT-RO70-D (for diaphragm kit)

All kits also include pump diagram and fitting instructions.

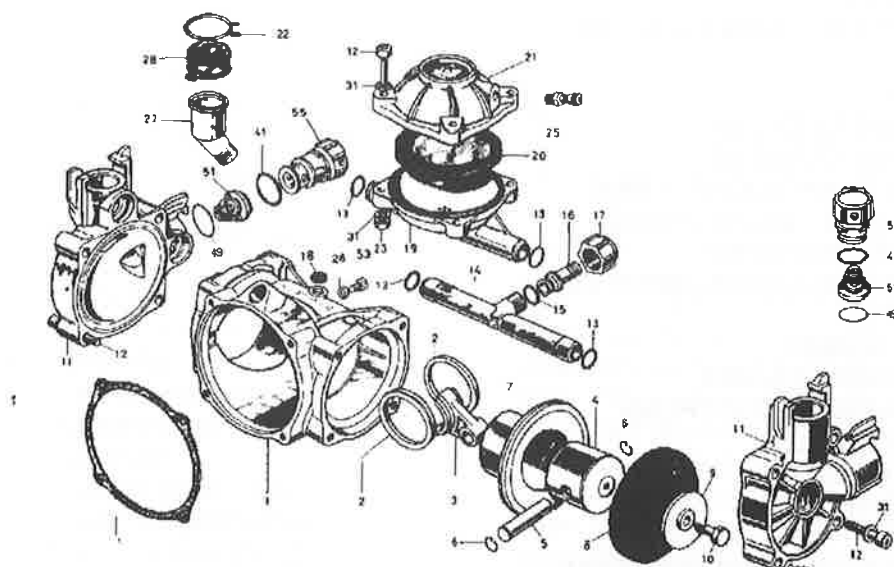
COMMONLY USED UDOR PART NUMBERS

First four digits are position numbers. For parts not listed, order by position number only.

PRODUCT CODE	DESCRIPTION
7370-7201060901	CHAIN HITCH
7400-7201090120	SPRING
7450-7201090509	ADAPTER - FEMALE 6-SPLINE
7500-7201091001	CLIP
7501-7201091002	CLIP
7572-7058110193	O-RING 42.52x2.62
7573-7002110156	O-RING 12.37x2.62
7578-70631101C6	D202, 8X209,86X3.53 O RING
7579-70631101C7	D152X159, 06X3.53 O RING
7650-7202121902	PUMP PTO COVER
7651-7202121904	PUMP PTO COVER (QUICK COU- PLER)
7652-7202121913	PTO GUARD
7671-7015140309	WASHER 10.5x18x2
7700-7201160322	DELIVERY OUTLET PLUG
7750-7201180406	BOLT M10x20
7751-7201180407	BOLT M10x25
7900-7203180504	BOLT M10x20
7948-Not listed	
8113-7003090334	SIDE DIAPHRAGM DESMOPAN
8141-4036870315	SUCTION ACC KIT
8151-7045120263	MOUNTING BRACKETS
8152-7045120264	MOUNTING BRACKETS
8160-7063120265	KAPPA 125 PLATE
8161-7063120266	KAPPA 125 PLATE
TAV72GB	TAV 72 GEARBOX

Goldacres carries an extensive range of Bertolini parts, however complete Bertolini pumps are not available.

SR20



Pos.	Codice Parl. No.	N. Pezzi Q.ty	Denominazione Description
1	94.0001.09.2	1	CARTER POMPA
2	94.0047.76.2	2	ANELLO BIELLE
3	94.0005.09.2	1	COPPIA DI BIELLE
4	94.0017.08.2	2	PISTONE D.42
5	85.2004.00.2	2	SPINOTTO D.10X35
6	80.0003.00.2	4	ANELLO D.10 PER FORO
7	94.0007.01.2	2	CAMICIA D.42
8	94.0040.31.2	2	MEMBRANA PISTONE
9	94.0036.32.2	2	PIATTELLO MEMBRANA
10	94.0048.43.2	2	VITE FISSAGGIO MEMBRANA
11	94.0002.09.2	2	TESTATA POMPA
12	86.2796.00.2	12	VITE TCEI M 8X40
13	80.3181.00.2	4	OR D. 2.62X15,54
14	94.0014.32.2	1	COLLETORE
15	80.3088.00.2	1	OR D. 2X15
16	84.1582.00.2	1	RACCORDO D. 18
17	82.0044.00.2	1	GALLETTO M 26
18	94.0075.66.2	1	PASTIGLIA APPOGGIO
19	94.0004.09.2	1	ACCUMULATORE INFERIORE
20	94.0041.31.2	1	MEMBRANA ACCUMULATORE
21	94.0003.09.2	1	ACCUMULATORE SUPERIORE
22	81.7537.00.2	1	FASCIETTA D.33
23	81.4574.00.2	4	DADO M 8
25	86.1605.00.2	1	VALVOLA ARIA
26	84.3642.90.2	1	ROSETTA D.8,1
27	94.0043.32.2	1	SERBATOIO OLIO
28	94.0044.31.2	1	COPERCHIO SERBATOIO
31	84.3685.00.2	8	ROSETTA D.8
41	80.3219.00.2	4	OR D. 3X25
49	82.4154.00.2	4	GUARNIZIONE D.30
51	94.9828.97.3	4	GR. VALVOLA ASP.MAND.
52	94.0091.98.2	2	TAPPO MANDATA
53	86.2458.00.2	1	VITE TCEI M 8X12
54	94.0080.72.2	1	GUARNIZIONE CARTER
55	94.0090.98.2	4	TAPPO ASPIRAZIONE

SD67



FIGURE 1:

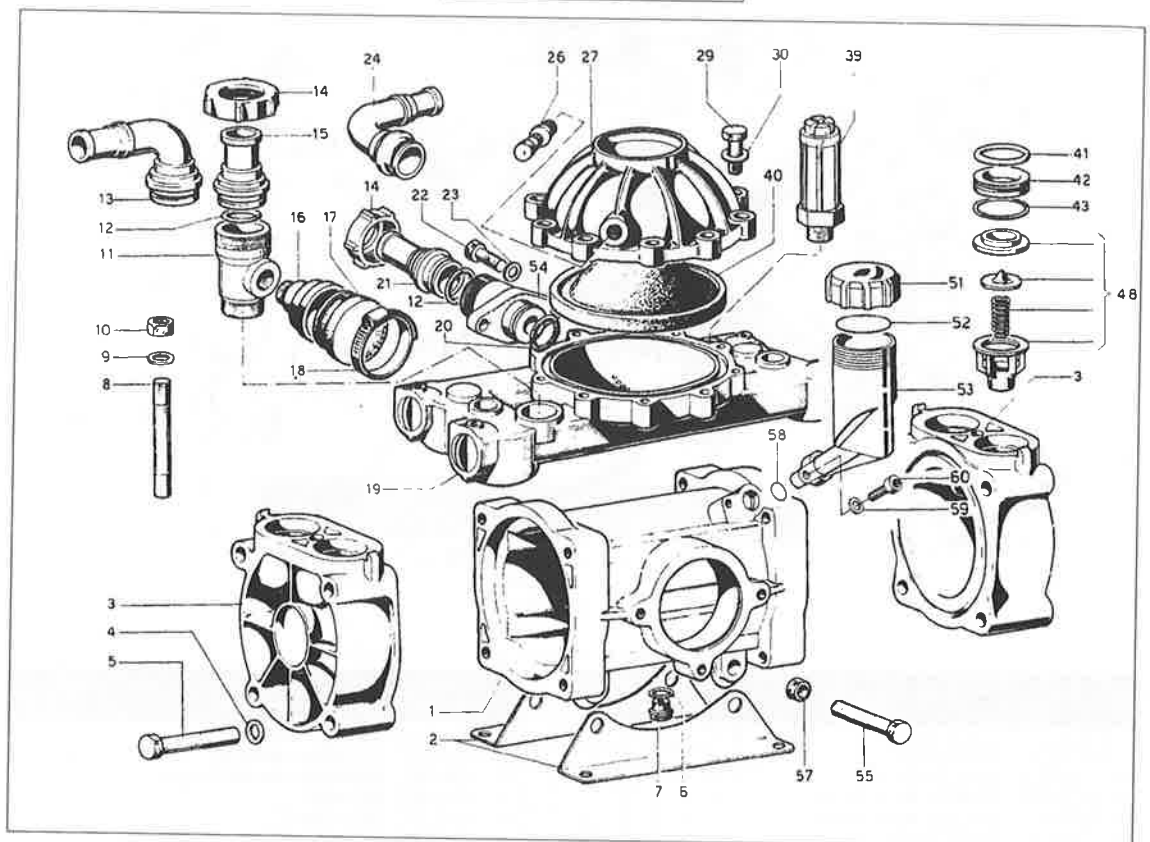
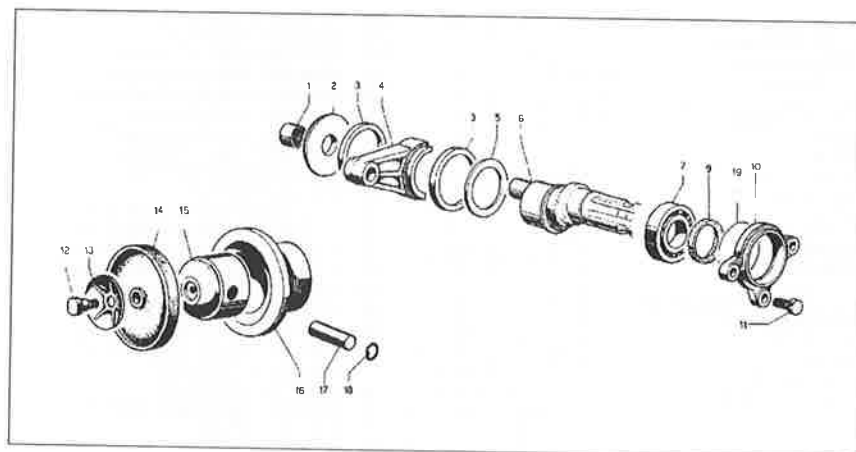


FIGURE 2:



SD67

FIGURE 1:

POSITION NO.	PART NO.	DESCRIPTION
1	960101092	Pump Housing
2	930024612	Mounting Bracket
3	950002092	Cylinder Head
4	843801002	Washer 10.5
5	863566002	Bolt M10x70
6	824079002	Washer 13.2
7	852543502	Plug 1/4"x9
8	838662002	Bolt M12x55
9	843844002	Washer 12
10	814694002	Nut M12
11	190015322	Pulsator Tee
12	803200002	O Ring 22.22x2.62
13	840542002	Hose Barb Elbow 25
14	820049002	Nut M34
16	930019322	Pulsator Manifold
17	930021312	Pulsator Cap
18	817522902	Pulsator Hose Clamp
19	199810973	Manifold
20	803195002	O Ring 20.24x2.62
21	841595002	Hose Barb 14
22	862129002	Bolt M6x18

POSITION NO.	PART NO.	DESCRIPTION
23	843585002	Washer 6.4
24	840520002	Hose Barb Elbow 14
26	861605002	Air Valve
27	930003092	Upper Air Chamber
29	862741002	Bolt M8x35
30	843685002	Washer 8
39	260094972	Relief Valve
40	930041312	Air Diaphragm
41	803207002	O Ring 29.8x2.62
42	950020322	Valve Spacer
43	803320002	O Ring 26x5
48	959821973	Valve
51	852744002	Oil Bowl Cap
52	803208202	O Ring 34.6x2.62
53	960103322	Oil Bowl
54	960044322	Delivery Flange Outlet
55	863575002	Bolt M10x75
57	814648002	Nut M10
58	803176002	O Ring 11.91x2.62
59	843542002	Washer 5.3
60	861933002	Bolt M5x14

FIGURE 2:

POSITION NO.	PART NO.	DESCRIPTION
1	812609002	Bearing DHK 2020
2	190025412	Thrust Washer
3	930047762	Con Rod Retaining Ring
4	950009092	Con Rod
5	170026762	Spacer Ring
6	960032262	Eccentric Shaft
7	812837002	Bearing 6007
9	802143102	Oil Seal 35x52x7
10	960102072	Bearing Support Flange
11	862555002	Bolt M8x20
12	862601002	Diaphragm Bolt M8x21
13	950036322	Diaphragm Washer
14	950040312	Side Diaphragm
15	950010082	Piston
16	950006012	Cylinder Liner
17	852007002	Gudgeon Pin 54x15
18	800021002	Gudgeon Pin Circlip 15
19	803210202	O Ring 60x2.6

SD103



FIGURE 3:

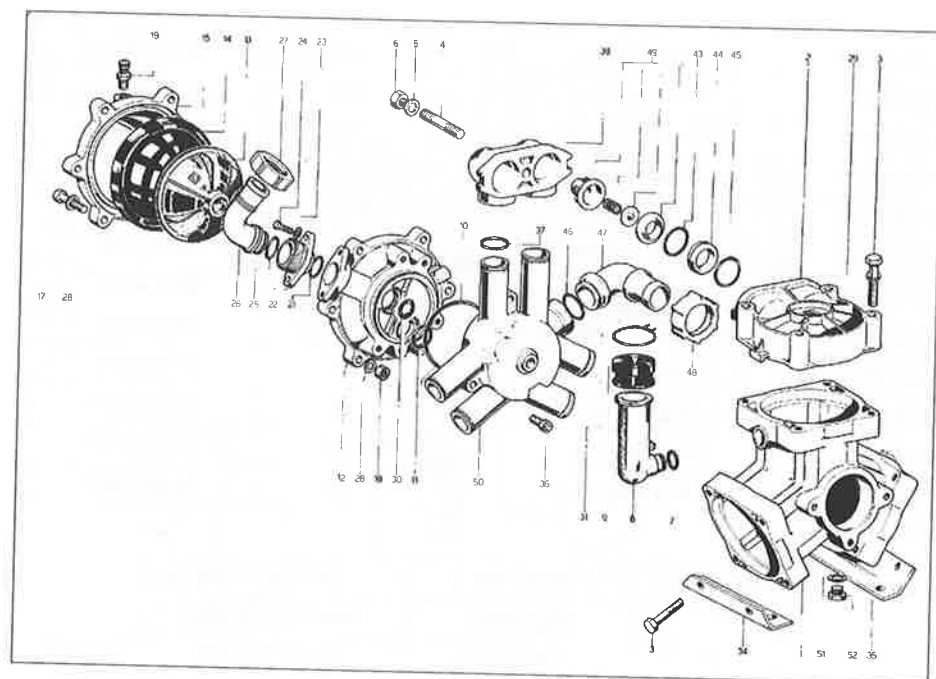
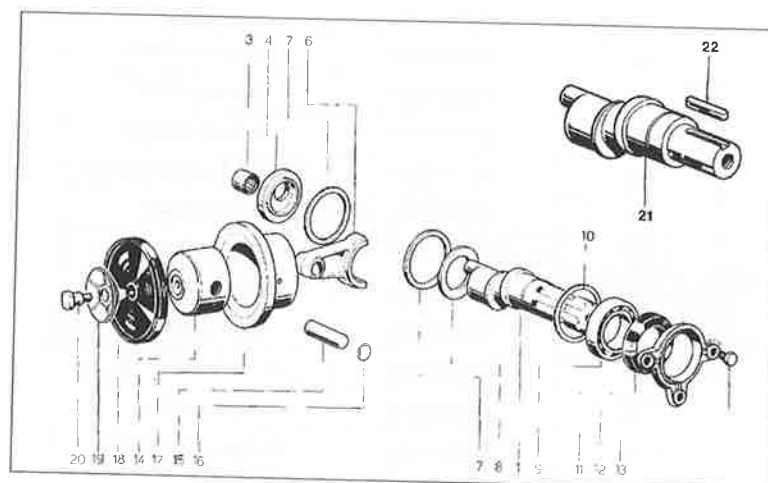


FIGURE 4:



SD103

FIGURE 3:

POSITION NO.	PART NO.	DESCRIPTION
1	95000109	Pump Housing
2	950002092	Cylinder Head
3	86356600	Bolt M10 x 70
4	83866200	Bolt
5	84384400	Washer
6	81468920	Nut M12
7	80317800	O Ring
8	95004332	Oil Bowl
9	95004431	Oil Bowl Cap
10	80322100	O Ring 70.5 x 3
11	80321800	O Ring 22 x 3
12	95000409	Lower Air Chamber
13	95001632	Air Chamber Liner
14	950041312	Air Diaphragm
15	950003092	Upper Air Chamber
17	86288100	Bolt M8 x 50
18	81457400	Nut M8
19	86160500	Air Valve
21	80321800	O Ring 22 x 3
22	96004432	Flange
23	84358500	Washer
24	86212900	Bolt M6 x 18

POSITION NO.	PART NO.	DESCRIPTION
25	80320000	O Ring 130
26	84054200	Hose Barb Elbow 90°
27	82004900	Nut M34 x 2
28	84368500	Washer
29	84380100	Washer
30	80319800	O Ring 128
31	81754900	Clamp
34	33002361	Mounting Bracket - R
35	33002461	Mounting Bracket - L
37	80321800	O Ring 22 x 3
38	95001809	Valve Housing
43	80332000	O Ring 26 x 5
44	95002032	Valve Spacer
45	80320700	O Ring 3118
46	80321900	O Ring 25 x 3
47	84056000	Hose Barb Elbow
48	82006700	Nut
49	96980597	Valve
50	95001432	Manifold
51	82407900	Oil Bowl Cap Seal
52	85254200	Plug 1/4"

FIGURE 4:

POSITION NO.	PART NO.	DESCRIPTION
1	96003226	Eccentric Shaft
3	81260900	Bearing DHK2020
4	19002541	Thrust Washer
6	33000509	Con Rod
7	93004776	Con Rod Retaining Ring
8	17002676	Thrust Washer
9	81283700	Bearing 6007
10	85011700	Spacer
11	80215210	Seal 35 x 62 x 10
12	95001332	Bearing Support Flange
13	86255500	Bolt M8 x 20
14	95001008	Piston

POSITION NO.	PART NO.	DESCRIPTION
15	85200700	Gudgeon Pin
16	80002100	Circlip
17	95000601	Cylinder Liner
18	950040312	Diaphragm
19	95003632	Diaphragm Washer
20	86260100	Bolt M8 x 21
21	96003526	Eccentric Shaft
22	80647500	Keyshaft 6.35 x 6.35 x 38

SD105/120

FIGURE 3A:

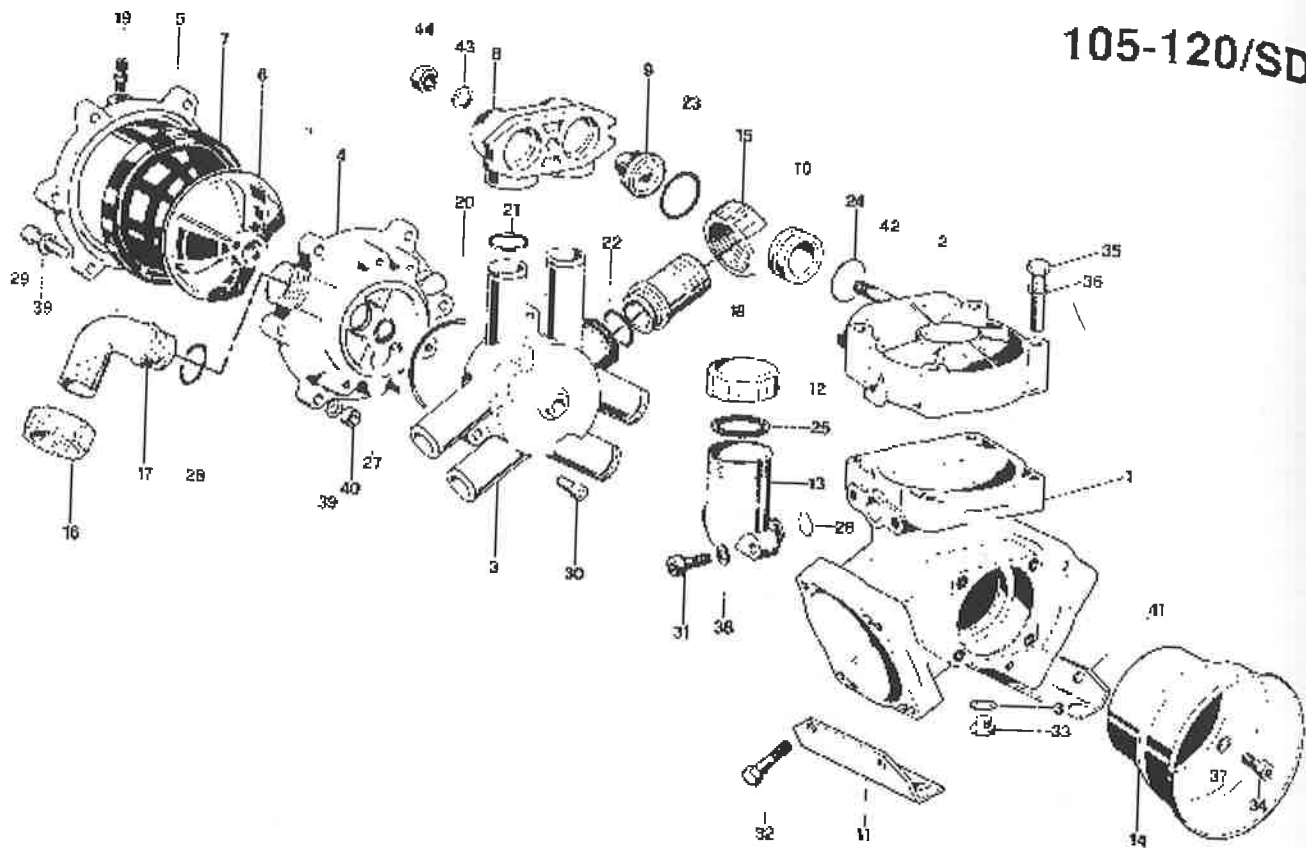
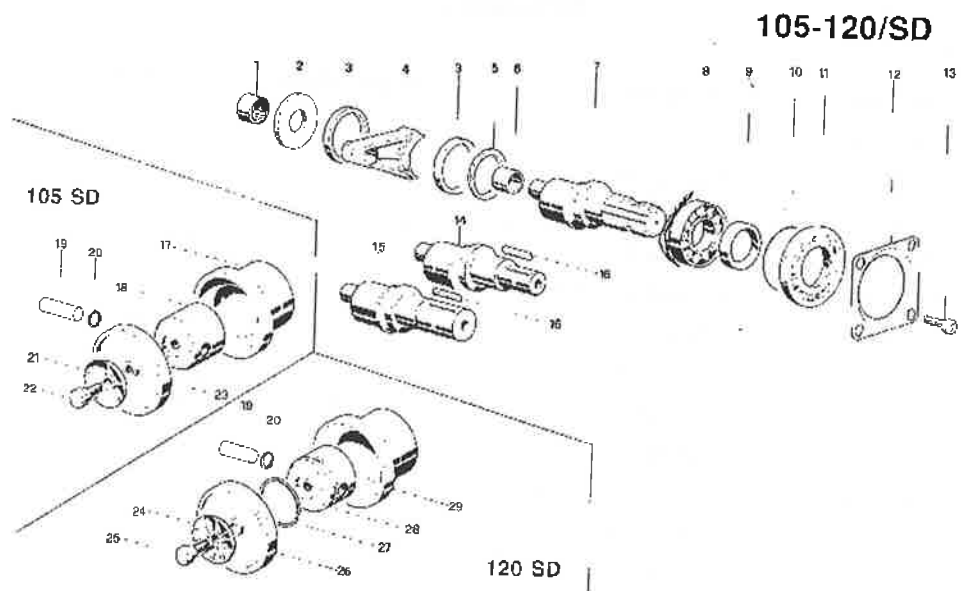


FIGURE 4A:



SD105/120

FIGURE 3A:

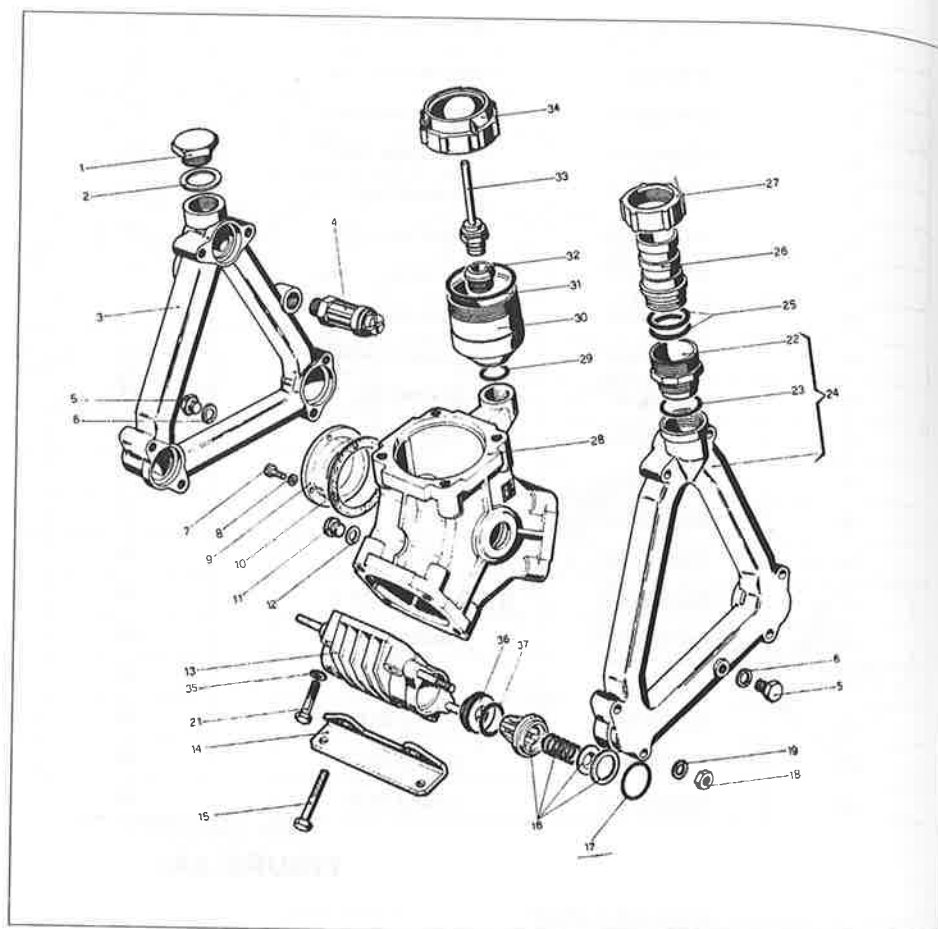
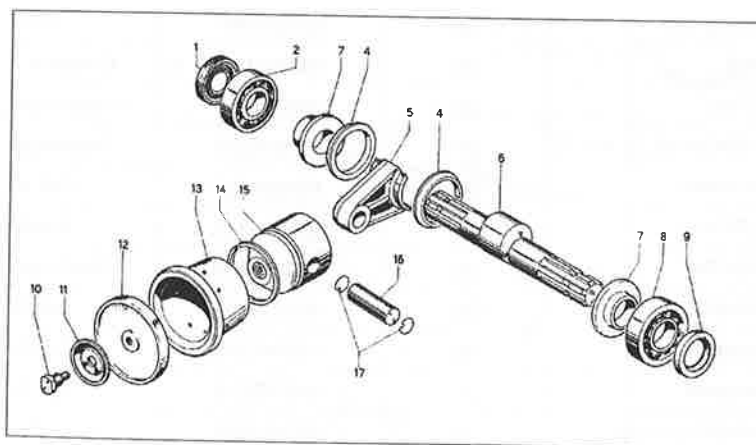
POSITION NO.	PART NO.	DESCRIPTION
1	950100092	Pump Housing
2	950002092	Cylinder Head
3	950190322	Manifold Housing
4	950214322	Lower air chamber
5	950003092	Upper air chamber
6	950016322	Air chamber liner
7	950041312	Air diaphragm
8	950018092	Valve housing
9	959821973	Valve
10	950020322	Valve spacer
11	330023612	RH mount bracket
12	852750002	Oil bowl cap
13	230008322	Oil bowl
14	311110322	PTO cover
15	820070002	Nut
16	820045002	Nut 1"
17	840542002	90° Elbow D25 1"
18	840561002	Hosetail D30
19	861605002	Air valve
20	803221002	O Ring 3x71
21	803218002	O Ring 3x22
22	803219102	O Ring 3x30

POSITION NO.	PART NO.	DESCRIPTION
23	803320002	Valve O Ring 5x26
24	803207002	O Ring 2.62x29.82
25	824120002	Oil bowl cap O ring
26	803180002	Bowl O ring
27	803217502	O Ring 3x19
28	803200002	O Ring 2.62x22.22
29	862944002	Bolt 6x60
30	862730502	Bolt 8x30
31	862730502	Bolt M8x3
32	824079002	Bolt
33	852543502	Plug 1/4x9
34	863187502	Bolt M10x18
35	863566002	Bolt M10x70
36	843801502	Washer 10.5
37	843812002	Washer 10.5
38	843685502	Washer 8
39	843685502	Washer 8
40	814574502	Nut M8
41	330024612	LH mount bracket
42	838662802	Head stud
43	843844002	Washer
44	814694002	Bolt

FIGURE 4A:

POSITION NO.	PART NO.	DESCRIPTION
1	812688002	Bearing DHK2520
2	950097612	Thrust washer
3	930047762	Con rod retaining ring
4	330005092	Con rod
5	170027762	Spacer ring
6	812606002	Shaft sleeve 20x25x20
7	950098262	Eccentric shaft
8	812846002	Bearing 6207
9	802143002	Oil seal 35x52x7
10	803287002	O Ring 3.53x82.14
11	530007322	Oil seal support
12	170013612	Bearing support
13	863185002	Bolt M10x16
14	950095262	Eccentric shaft
15	950099262	Eccentric shaft

POSITION NO.	PART NO.	DESCRIPTION
16	806475002	Keyshaft
17	950006012	Cylinder liner
18	950010082	Piston
19	852007002	Gudgeon pin 54x15
20	800021002	Gudgeon pin circlip 15
21	950036322	Diaphragm washer
22	862601002	Bolt M8x21
23	950040312	Diaphragm
24	280036322	Diaphragm washer
25	863230102	Bolt M8x20
26	950040312	Diaphragm
27	818530002	Cylinder ring
28	950101092	Piston
29	950102012	Cylinder liner

SD151**FIGURE 5:****FIGURE 6:**

SD151

FIGURE 5:

POSITION NO.	PART NO.	DESCRIPTION
4	260094972	Relief Valve
7	862562502	Bolt M8x20
8	843685502	Washer 8
9	980108092	Bearing Support Flange
10	980110722	Gasket
12	824079002	Washer 13.2
16	289809973	Valve
17	803314002	O Ring 40x4.5
18	814574502	Nut M8
19	843685500	Washer 8
22	83509200	Nipple M45xM55
26	84164210	Hose Barb
27	82010000	Nut M55
28	270003072	Pump Housing
29	80320600	O Ring 3112
30	28004332	Oil Bowl
31	80310920	O Ring 67x1.8
32	98003748	Oil Bowl Adaptor
33	28004797	Oil Bowl Stick
34	28004432	Oil Bowl Cap
35	843844502	Washer 12
36	28002932	Valve Spacer

FIGURE 6:

POSITION NO.	PART NO.	DESCRIPTION
1	802143102	Oil Seal 35x52x7
2	812846002	Bearing 6207
4	980047762	Con Rod Retaining Ring
5	280007112	Con Rod
6	280097262	Eccentric Shaft
7	280027092	Shaft Sleeve
9	802143102	Oil Seal 35x52x7
10	280037512	Diaphragm Bolt
11	280036322	Diaphragm Washer
12	280040312	Side Diaphragm
13	280006012	Cylinder Liner
14	818540002	Cylinder Ring
15	280010082	Piston
16	852027002	Gudgeon Pin
17	800038002	Gudgeon Pin Circlip

POLYPUMP 120

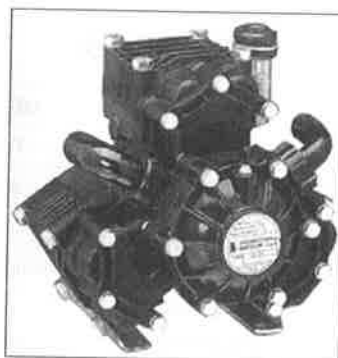


FIGURE 7:

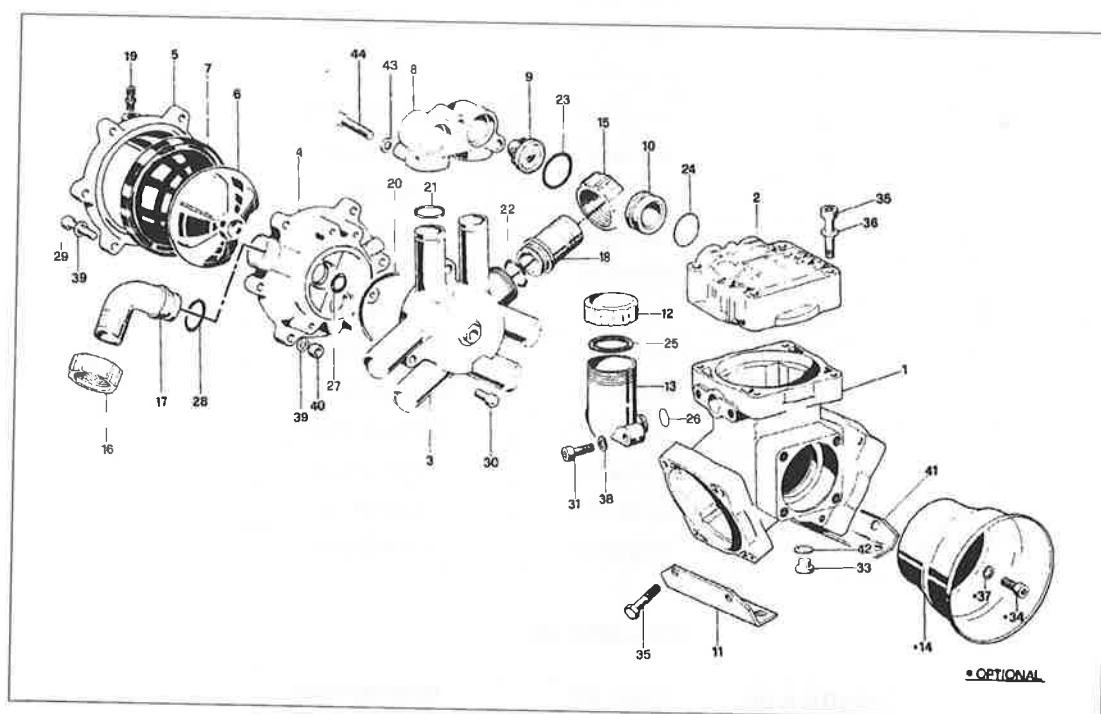
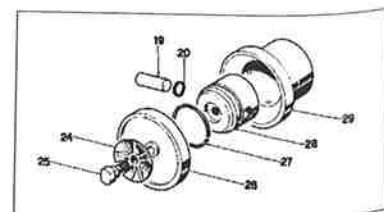
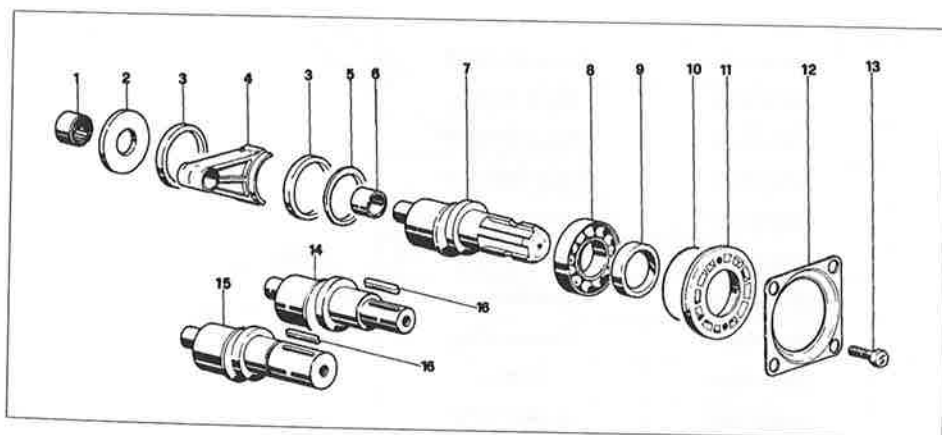


FIGURE 8:



POLYPUMP 120

FIGURE 7:

POSITION NO.	PART NO.	DESCRIPTION
1	950100092	Pump Housing
2	950215322	Cylinder Head
3	950190322	Manifold
4	950214322	Lower Air Chamber
5	950152092	Upper Air Chamber
6	950016322	Air Chamber Liner
7	950041312	Air Diaphragm
8	950216322	Valve Housing
9	959821973	Valve
10	950020322	Valve Spacer
11	330023612	Mounting Bracket - L
12	852750002	Oil Bowl Cap
13	230008322	Oil Bowl
14	311110322	PTO Cover
15	820070002	Suction Nut 1 1/2"
16	820045002	Nut 1"
17	840542002	Hose Barb Elbow 25
18	840591002	Hose Barb Elbow 40
18	840561002	Hose Barb Elbow 30
19	861605002	Air Valve
20	803221002	O Ring 71x3
21	803218002	O Ring 22x3

POSITION NO.	PART NO.	DESCRIPTION
22	803219102	O Ring 30x3
23	803320002	O Ring 26x5
24	803207002	O Ring 29.8x2.62
25	824120002	Oil Bowl Cap Seal
26	803180002	O Ring 22x3
27	803217502	O Ring 19x3
28	803200002	O Ring 22.22x2.62
29	862944002	Bolt M8x60
30	862730502	Bolt M8x30
31	862730502	Bolt M8x30
33	852543502	Plug 1/4"x9
34	863187502	Bolt M10x18
35	863562502	Bolt M10x70
36	843801002	Washer 10.5
37	843812002	Washer 10.5
38	843685502	Washer 8
39	843685502	Washer 8
40	814574502	Nut M8
41	330024612	Mounting Bracket - R
42	824079002	Washer 13.2
43	843685502	Washer 8
44	862910502	Bolt M8x55

FIGURE 8:

POSITION NO.	PART NO.	DESCRIPTION
1	812688002	Bearing DHK 2520
2	950097612	Thrust Washer
3	930047762	Con Rod Retaining Ring
4	330005092	Con Rod
5	170027762	Spacer Ring
6	812606002	Shaft Sleeve 20x25x20
7	950098262	Eccentric Shaft
8	812846002	Bearing 6207
9	802143102	Oil Seal 35x52x7
10	803287002	O Ring 82.14x3.53
11	530007322	Oil Seal Support
12	170013612	Bearing Support Flange
13	863185002	Bolt M10x16

POSITION NO.	PART NO.	DESCRIPTION
17	950006012	Cylinder Liner
18	950010082	Piston
19	852007002	Gudgeon Pin 54x15
20	800021002	Gudgeon Pin Circlip 15
22	862600002	Diaphragm Bolt
23	950040312	Side Diaphragm
24	950037322	Diaphragm Washer
25	863230102	Diaphragm Bolt
26	950040312	Side Diaphragm
27	818530002	Cylinder Ring
28	950101092	Piston
29	950102012	Cylinder Liner

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FIGURE 9:

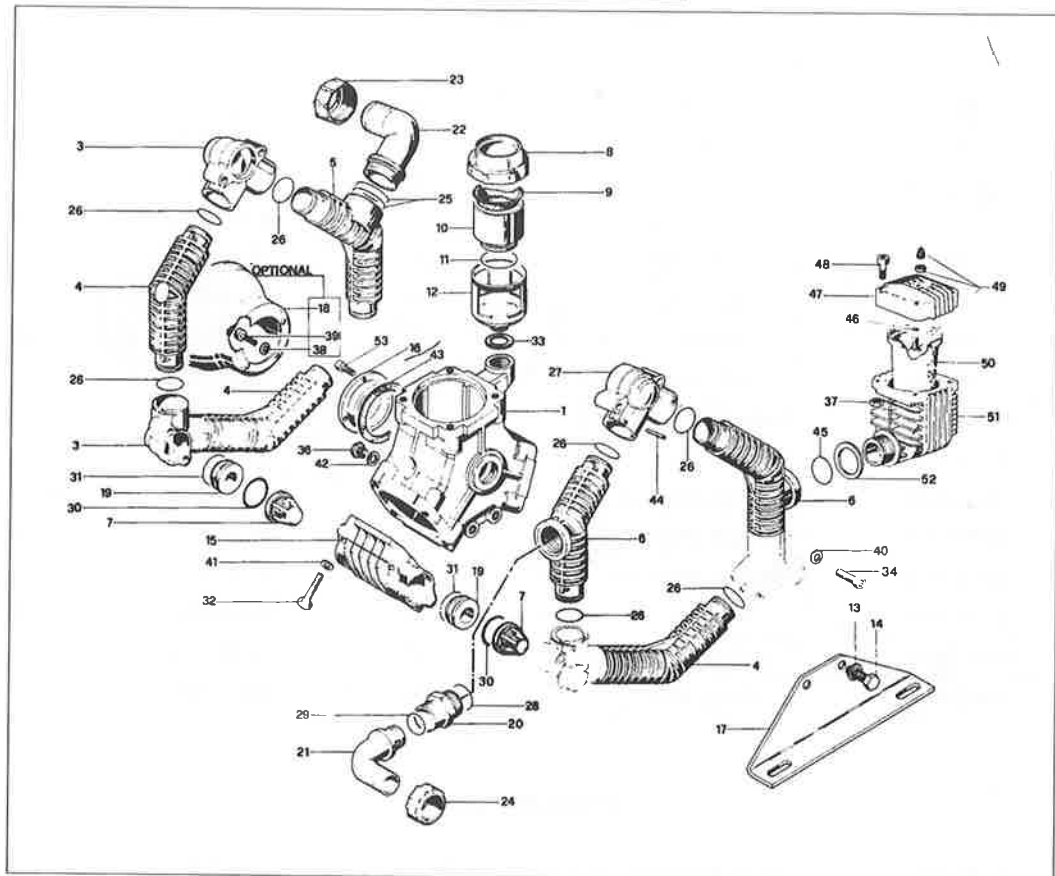
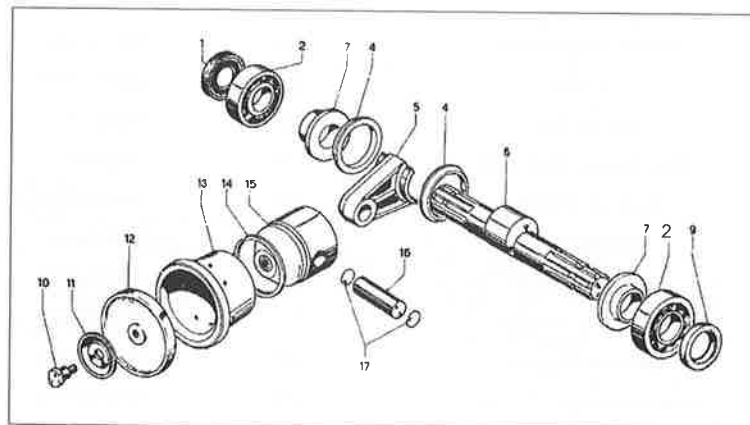


FIGURE 10:



POLYPUMP 160

FIGURE 9:

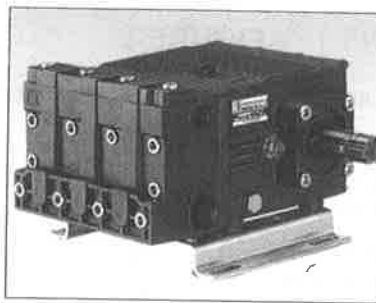
POSITION NO.	PART NO.	DESCRIPTION
1	270003072	Pump Housing
3	140004322	Manifold End
4	270032322	Manifold
5	270033322	Manifold with Port
6	270034322	Manifold with Port
7	289809973	Valve
8	280144322	Oil Bowl Cap
9	410017312	Oil Bowl Seal
10	410016322	Oil Bowl
11	803209402	O Ring 44.12x2.62
12	920150092	Oil Bowl Sleeve
13	843844502	Washer 12
14	863740502	Bolt M12x30
15	280200322	Valve Spacer
16	980108092	Bearing Support Flange
17	270022612	Mounting Bracket
18	311110322	PTO Cover
19	280029322	Valve Spacer
20	835090002	Nipple M42x2
21	840542402	Hose Barb Elbow 25
22	840596002	Hose Barb Elbow 45
23	820120002	Nut M42
24	820067002	Nut M42
25	803209102	O Ring 30x3
26	803219202	O Ring 35x3

POSITION NO.	PART NO.	DESCRIPTION
27	270036322	Manifold End
28	803207002	O Ring 29.8x2.62
29	803219002	O Ring 25x3
30	803314002	O Ring 40x4.5
31	803209402	O Ring 44.12x2.62
32	864068002	Bolt M12x75
33	824191002	Washer 27x38x2
34	862860002	Bolt M8x45
36	863690002	Bolt M12x16
37	814574502	Nut M8
40	843685502	Washer 8
41	843844502	Washer 12
42	824079002	Washer 13.2
43	980110722	Gasket
44	851159002	Pin 40x4
45	803247502	O Ring 28.17x3.53
46	803213002	O Ring 6x3
47	110004092	Upper Air Chamber
48	862752102	Bolt M8x35
49	861608502	Air Valve
50	230041312	Air Diaphragm
51	270035322	Lower Air Chamber
52	270037462	Washer 47x37x1.5
53	862562502	Bolt M8x20

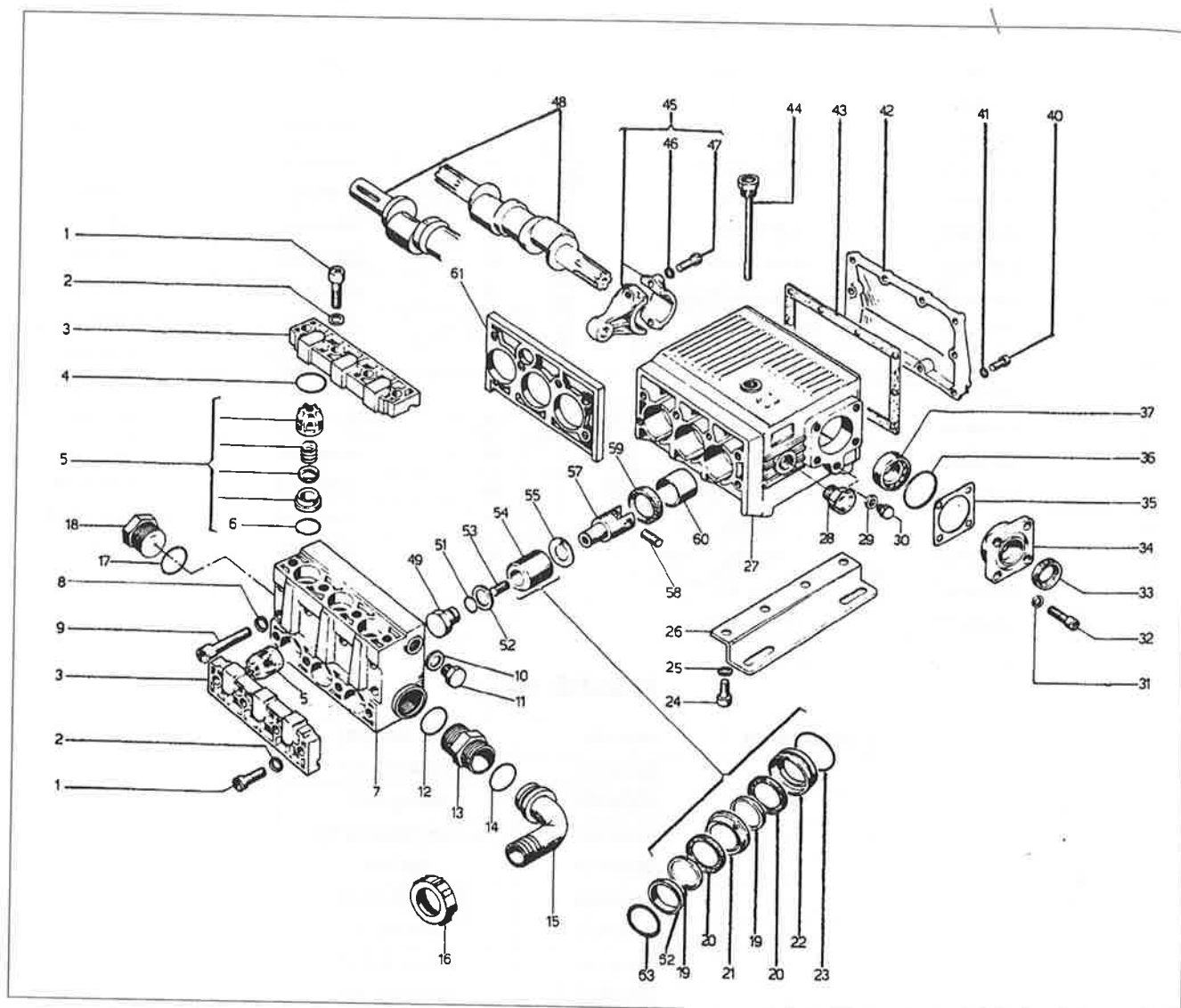
FIGURE 10:

POSITION NO.	PART NO.	DESCRIPTION
1	802143102	Oil Seal 35x52x7
2	812846002	Bearing 6207
4	980047762	Con Rod Retaining Ring
5	280007112	Con Rod
6	280097262	Eccentric Shaft
7	280027092	Shaft Sleeve
9	802143102	Oil Seal 35x52x7
10	280037512	Diaphragm Bolt
11	280036322	Diaphragm Washer
12	280040312	Side Diaphragm
13	280006012	Cylinder Liner
14	818540002	Cylinder Ring
15	280010082	Piston
16	852027002	Gudgeon Pin
17	800038002	Gudgeon Pin Circlip

PISTON PUMP C 133 P



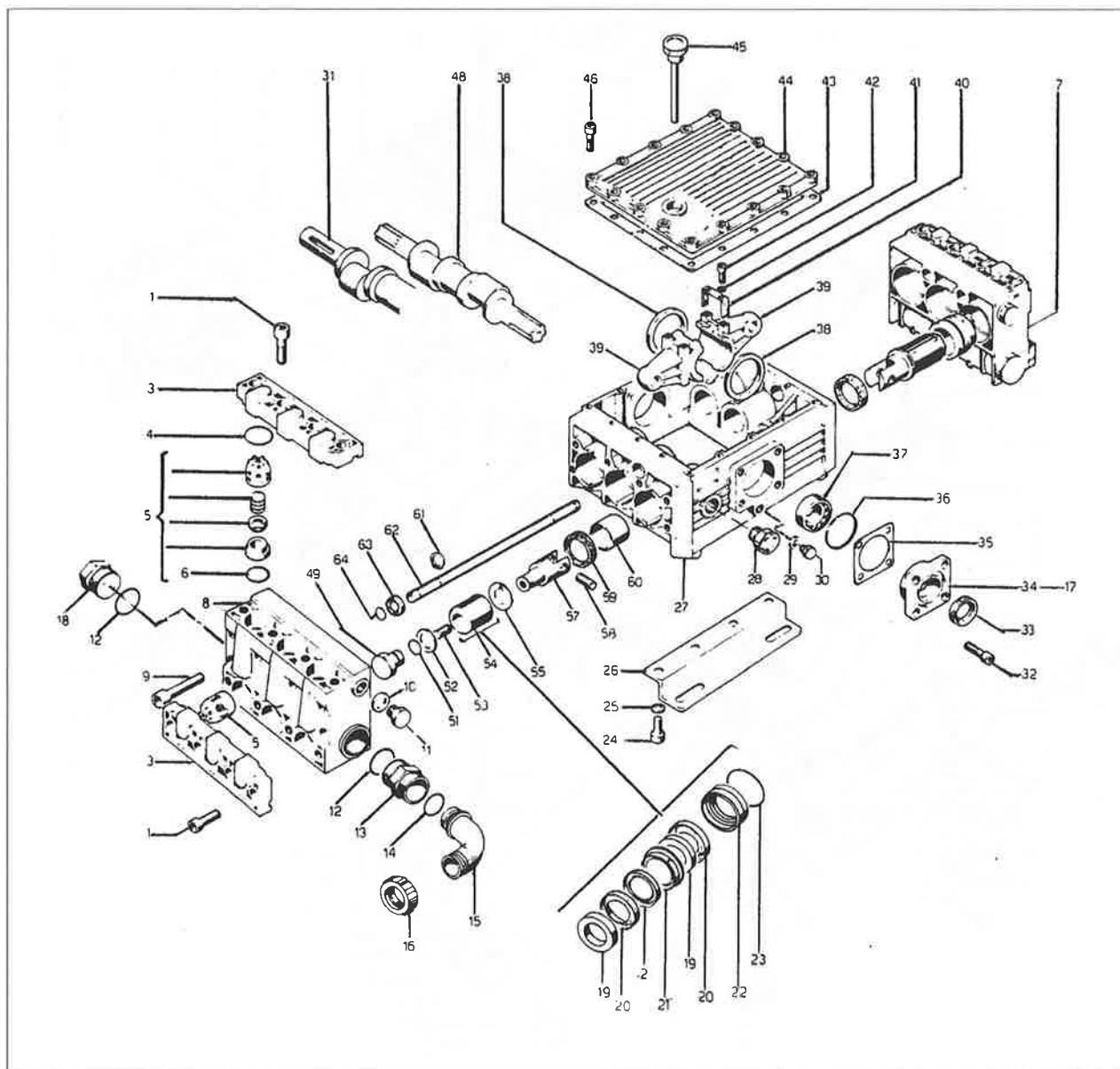
Order parts by position number, and pump make and model.



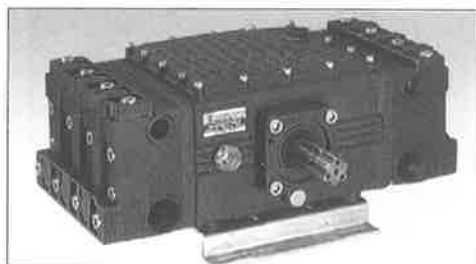
PISTON PUMP C 146 P



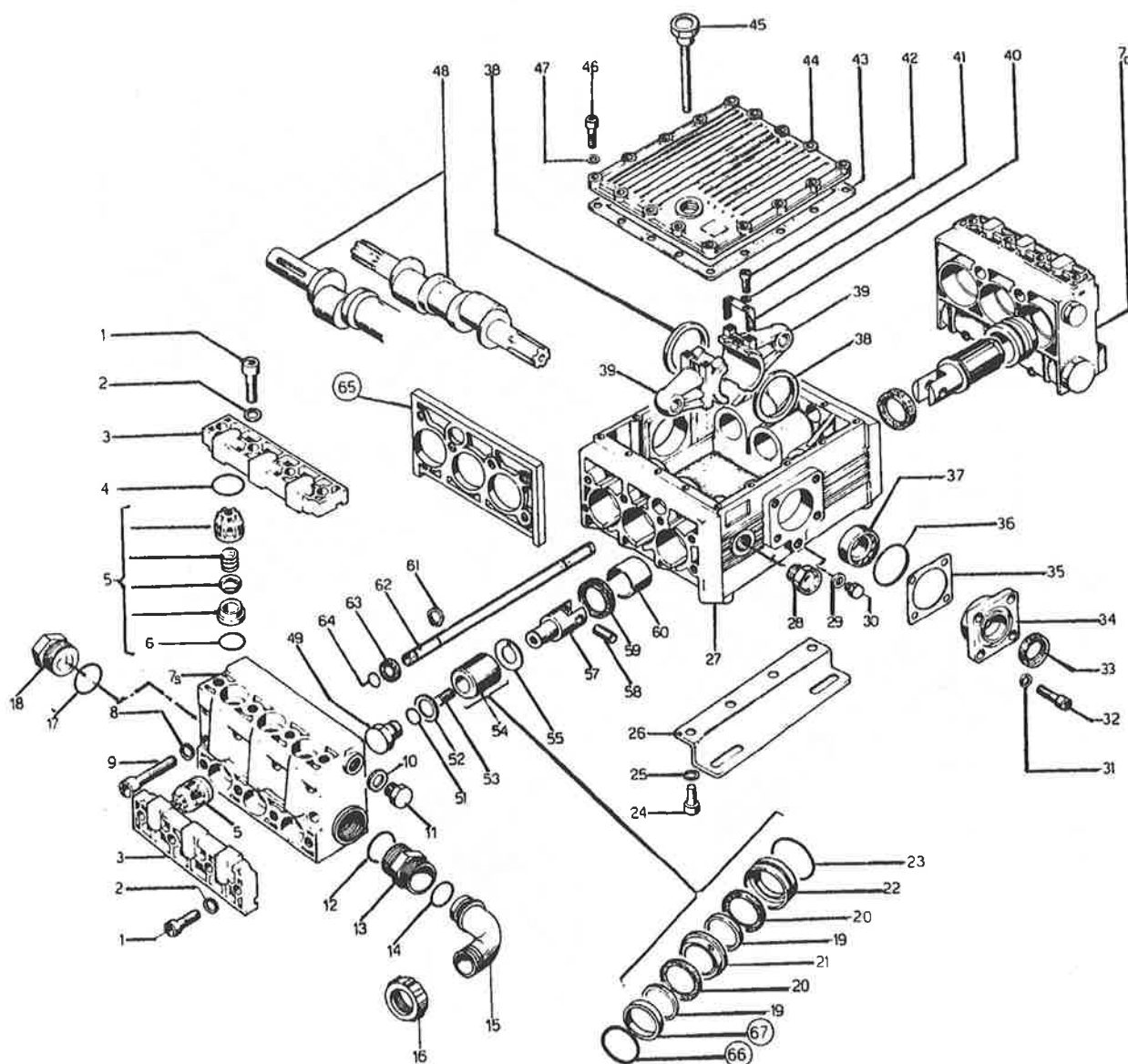
Order parts by position number,
and pump make and model.



PISTON PUMP C 181 P

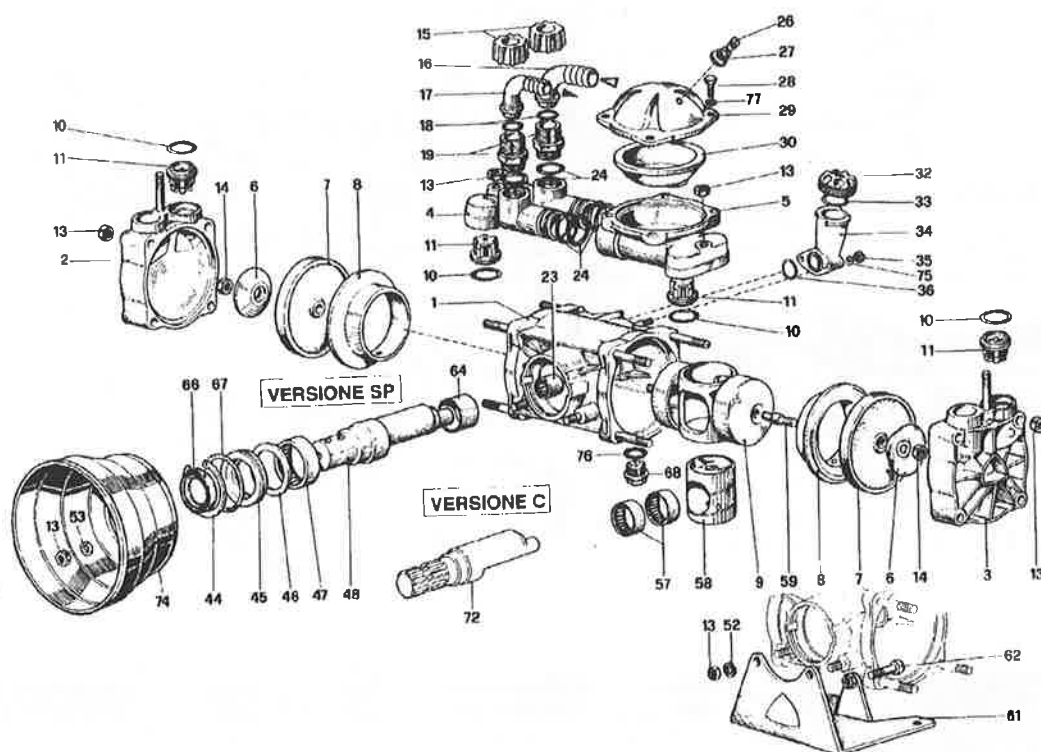


Order parts by position number,
and pump make and model.



Goldacres carries a limited range of AR parts.

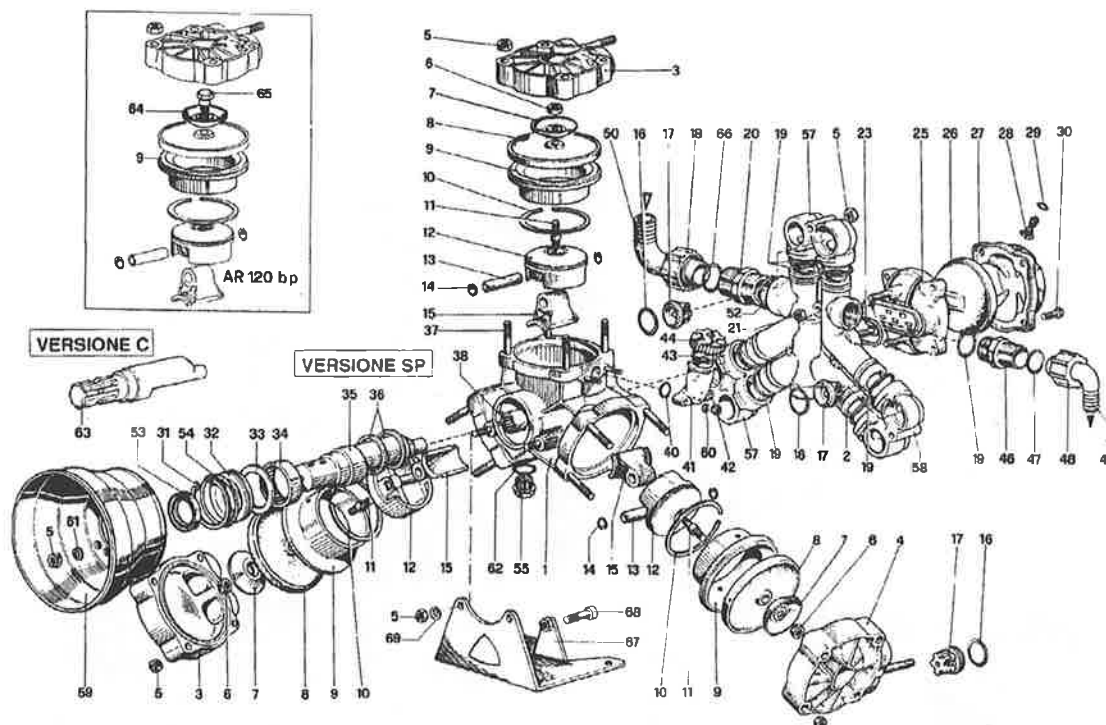
AR60



pos.	codice code	DENOMINAZIONE DESCRIPTION	Q.tà Q.ty
1	550010	Corpo pompa	1
2	550101	Testa valvole (destra)	1
3	550102	Testa valvole (sinistra)	1
4	550150	Attacco aspirazione-mandata	1
5	550180	Semisfera inferiore	1
6	580090	Piattello richiamo	2
7	550080	Membrana gomma	2
	550085	Membrana Desmopan (A RICHIESTA)	2
8	550110	Camicia Ø75	2
9	550120	Pistone Ø75	1
10	320030	OR Ø31,5x4,5	4
11	559050	Valvola completa	4
13	180150	Dado M10 - 5587	12
14	550131	Dado M10	2
15	550242	Girello 1"G	2
16	550370	Curva Ø25	1
17	550380	Curva Ø19	1
18	550350	OR Ø23,81x2,62	2
19	550340	Niples 1"G(M)-1"G(M)	2
23	550310	Boccola a rullini HK2020	1
24	390290	OR Ø29x3	6
26	550300	Valvola di gonfiaggio	1
27	650542	Guarnizione	1
28	550680	Vite TE M8x20	4
29	550230	Semisfera superiore rossa	1
30	550190	Semicamera aria gomma	1
32	550050	Tappo serbatoio	1

pos.	codice code	DENOMINAZIONE DESCRIPTION	Q.tà Q.ty
33	550040	OR Ø26,65x2,62	1
34	550030	Serbatoio olio	1
35	390440	Dado M6 - 5587	2
36	180101	OR Ø17,5x2	1
44	200391	Anello seeger Ø62	1
45	550470	Bussola anello tenuta	1
46	550070	Rondella tenuta albero	1
47	550060	Boccola a rullini HK5020	1
48	550170	Albero eccentrico SP	1
52	200231	Grower Ø10,5	2
53	320620	Rosetta Ø10,5x21x2	2
57	550280	Boccola a rullini HK3516	2
58	550140	Cilindro traina pistone	1
59	550270	Perno membrana	2
61	580080	Piede corpo pompa	1
62	540300	Vite TCEI M10x30	1
64	550160	Distanziale	1
66	550491	Anello tenuta 45x55x7	1
67	650920	OR Ø53,65x2,62	1
68	130171	Tappo 3/8"G (già COD.30171)	1
72	550173	Albero eccentrico C (cardano)	1
74	540660	Protezione cardano (OPTIONAL)	1
75	550331	Rosetta Ø6,5x12,5x1,5	2
76	740290	OR Ø14x1,78	1
77	961340	Rosetta Ø8,5	4

AR100 & AR120



pos.	codice code	DENOMINAZIONE DESCRIPTION	Q.tà Q.ty
1	580010	Corpo pompa	1
2	580150	Condotto aspirazione-mandata	1
3	550101	Testa valvole (destra)	2
4	550102	Testa valvole (sinistra)	1
5	180150	Dado M10 - 5587	17
6	550131	Dado M10 AR 100 bp	3
7	580090	Piattello richiamo AR 100 bp	3
8	550080	Membrana gomma	3
9	550085	Membrana Desmopan (A RICHIESTA)	3
10	580110	Camicia Ø80 AR 100 bp	3
11	580350	Camicia Ø80 AR 120 bp	3
12	500260	Segmento Ø80x2,5	3
13	550270	Perno membrana AR 100 bp	3
14	580120	Pistone Ø80	3
15	380300	Spinotto Ø ₂ 14x48	3
16	380080	Anellino spinotto Ø 14	6
17	580140	Biella	3
18	320030	OR Ø31,5x4,5	6
19	559050	Valvola completa	6
20	580060	Girello 1"1/4G AR 100 bp	1
21	540541	Girello 1"3/4G AR 120 bp	1
22	390291	OR Ø28,25x2,62	7
23	580030	Niples 1"1/4 G - 1"1/4G AR 100 bp	1
24	540530	Niples 1"1/4 G - 1"3/4G AR 120 bp	1
25	390270	Dado M8 - 5588	3
26	580050	Guarnizione	1
27	580180	Semisfera inferiore	1

pos.	codice code	DENOMINAZIONE DESCRIPTION	Q.tà Q.ty
26	550190	Semicamera aria gomma	1
27	550230	Semisfera superiore rossa AR 100 bp	1
28	550232	Semisfera superiore gialla AR 120 bp	1
29	550300	Valvola di gonfiaggio	1
30	650542	Guarnizione	1
31	550680	Vite TE M8x20	4
32	200391	Anello seeger Ø62	1
33	550470	Bussola anello tenuta	1
34	550070	Rondella tenuta albero	1
35	550060	Boccola a rullini HK5020	1
36	550170	Albero eccentrico AR 100 bp SP	1
37	580380	Albero eccentrico AR 120 bp SP	1
38	580130	Anello biella	2
39	550200	Prigioniero M10x65	4
40	550310	Boccola a rullini HK5020	1
41	180101	OR Ø17,5x2	1
42	550030	Serbatoio olio	1
43	390440	Dado M6 - 5587	2
44	550040	OR Ø26,65x2,62	1
45	550050	Tappo serbatoio	1
46	550340	Niples 1"G(M) - 1"G(M)	1
47	550350	OR Ø23,81x2,62	1
48	550242	Girello 1"G	1
49	550370	Curva Ø25	1
50	580040	Curva Ø30 AR 100 bp	1
51	540550	Curva Ø40 AR 120 bp	1
52	250310	OR Ø36,14x2,62	1

pos.	codice code	DENOMINAZIONE DESCRIPTION	Q.tà Q.ty
53	550491	Anello tenuta 45x55x7	1
54	650920	OR Ø53,65x2,62	1
55	130171	Tappo 3/8"G (già COD. 30171)	1
56	580071	Attacco aspirazione-mandata destro	2
57	580072	Attacco aspirazione-mandata sinistro	1
58	540660	Protezione cardano (OPTIONAL)	1
59	550331	Rosetta 6.5x12,5x1,5	2
60	320620	Rosetta Ø10,5x21x2	2
61	740290	OR Ø14x1,78	1
62	550173	Albero eccentrico AR 100 bp C (cardano)	1
63	580330	Albero eccentrico AR 120 bp C (cardano)	1
64	580370	Piattello richiamo AR 120 bp	3
65	580360	Perno membrana AR 120 bp	3
66	390291	OR Ø28,25x2,62 AR 100 bp	1
67	250310	OR Ø36,14x2,62 AR 120 bp	1
68	580080	Piede corpo pompa	1
69	540300	Vite TCEI M10x30	1
70	200231	Grower Ø10,5	2
PARTI SPECIALI IN VITON			
8	550084	Membrana VITON	3
26	550192	Semicamera aria VITON	1

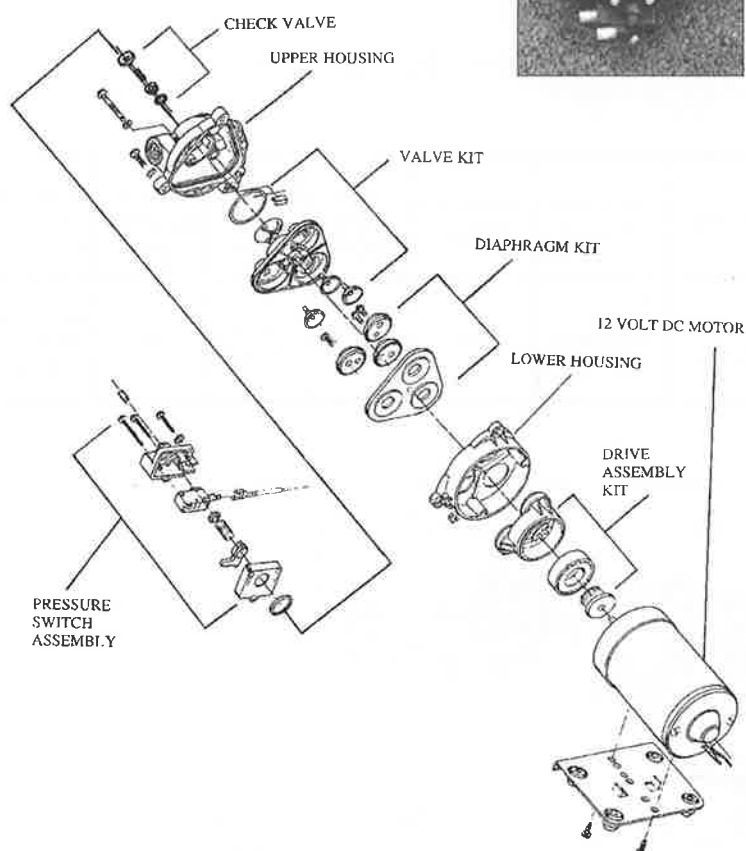
12 VOLT SINGLE DIAPHRAGM PUMPS

SHURFLO 8000 SERIES



Open flow capacity: 5.3 L/min
 Maximum pressure capacity: 60 psi
 Voltage: 12V DC
 Current: 7 Amp

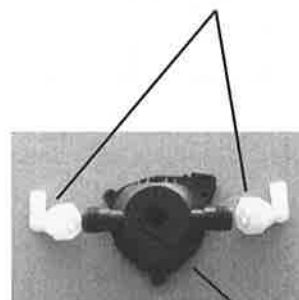
Shurflo 8000 Series 8000543236



Female elbows to suit male heads, available to suit 1/2" and 3/8" hose.

361-8-034 (suits 1/2" hose)

361-8-060 (suits 3/8" hose)



Upper housing of Shurflo pump fitted with male head housing.

Upper housing (male)
9437901

DESCRIPTION	PART NUMBER
Check Valve Kit	94-374-05
Upper Housing	94-379-00
Valve Kit	94-390-05
Diaphragm Kit	94-395-06
Lower Housing / Drive Assembly Kit	94-385-03
Pressure Switch Assembly	94-375-05
Bearing 6203	6203-2NSE
Upper Housing (male)	94-379-01
Elbows for male head (suit 3/8" hose)	361-8-060
(suit 1/2" hose)	361-8-034

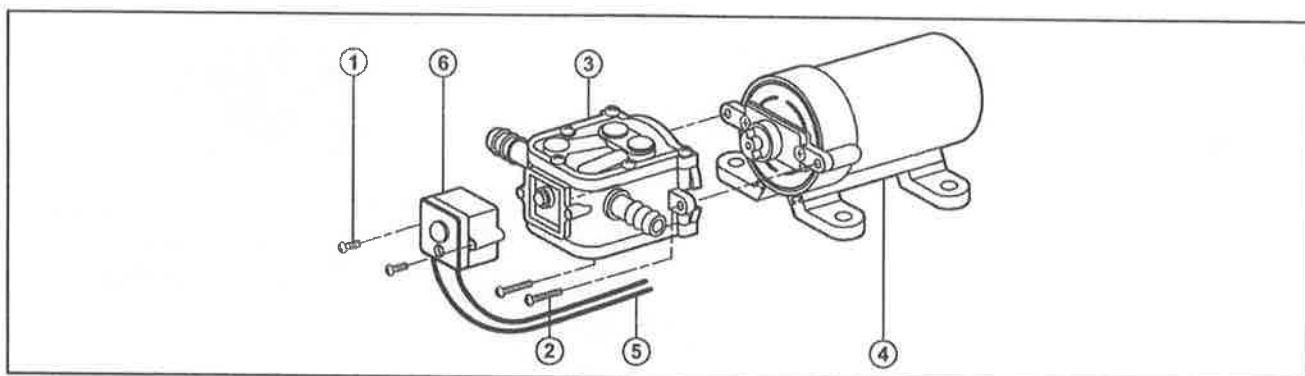
12 VOLT SINGLE DIAPHRAGM PUMPS

FLOJET LF SERIES



- Sealed pressure switch automatically starts and stops pump when discharge valve opens and closes
- Self-priming so pump can be located above supply tank.
- Can run dry for extended periods of time without damage.
- Built-in thermal protector.
- Low amp draw for battery powered applications.

Part Number	Max Flow	Max Pressure	Power Input Voltage	Power Input Amps	Diaphragm Material	Check Valve Material	Pump Body Material	Pressure Switch Setting	Total Bypass Pressure	Inlet/Outlet Port Fittings
LF121-421D	2.7 L/Min	40 PSI (2.8 Bar)	12VDC	2.5 Amp NoMinal @25PSI(1.7Bar	Santoprene	Viton	Polypropylene	40 PSI (2.8 Bar)	n/a	3/8"(9.5mm)Hose Barb



KEY	DESCRIPTION	KEY	DESCRIPTION
1	Switch cover screws	4	Motor
2	Pump head screws	5	Lead wires
3	Pump head	6	Pressure switch

12 VOLT SINGLE DIAPHRAGM PUMPS

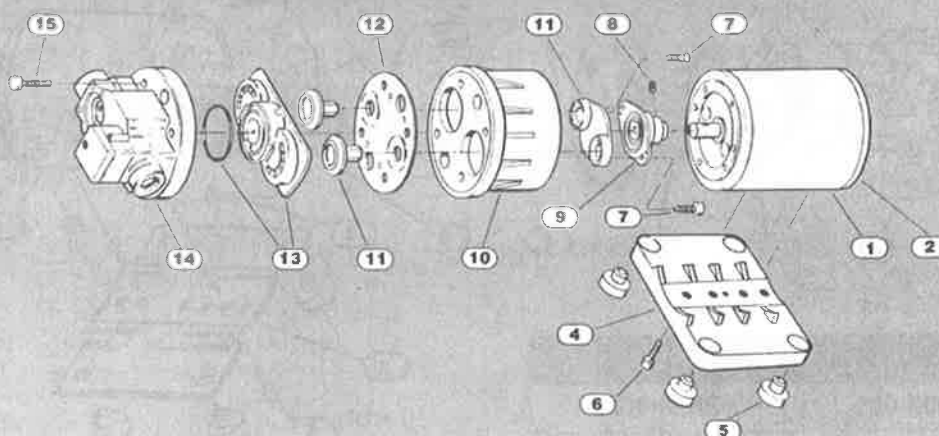
FLOJET 2135 SERIES



Open flow capacity: 7.6 L/min
 Maximum pressure capacity: 70 psi
 Voltage: 12V DC
 Current: 10 Amp

Flojet 2135 Series 2135571A

PARTS LIST MODEL 2135 SERIES



Pos. No.	Part Number	Description
1	02009-004	12 v motor DC
2	29115-116	Brush Endbell Assy. (DC)
4	11028-101	Baseplate Assy. Plastic (Inc. # 5 & # 6)
5	20132-000	Grommets
6	20131-002	Baseplate screws
7	Only in kit	Screw
9	Only in kit	Cam bearing
10	20428-100	Bearing cover Polypro
11	Only in kit	Piston
12	Only in kit	Diaphragm kit
13	Only in kit	Valve kit
14	20316-011	Upper housing / Switch assy.
15	20131-001	Pump screws

REPAIR KITS ALSO AVAILABLE

Kit No.	Parts included	Description
21004-202	8, 9, 11, 12	Cam bearing / diaphragm # 2 (Buna diaphragm)
21004-402	8, 9, 11, 12	Cam bearing / diaphragm # 2 (Santo diaphragm)
21046-029	7, 8, 9, 11, 12, 13	Pump service kit

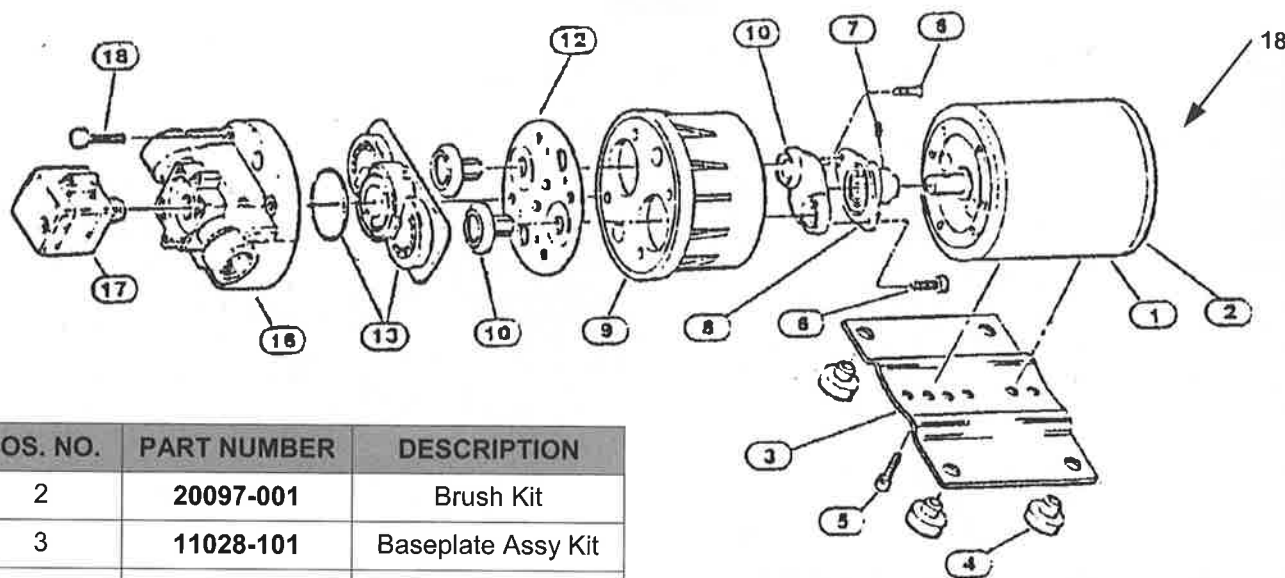
12 VOLT SINGLE DIAPHRAGM PUMPS

FLOJET 2100 SERIES



Open flow capacity: 9 L/min
 Maximum pressure capacity: 35 psi
 Voltage: 12V DC
 Current: 10 Amp

Flojet 2100 Series 2100637A



POS. NO.	PART NUMBER	DESCRIPTION
2	20097-001	Brush Kit
3	11028-101	Baseplate Assy Kit
4	20132-000	Grommet Kit
8	21046-029	Cam Bearing Kit
9	20428-100	Bearing Cover
12	21010-004	Diaphragm Kit
13	20028-008	Valve Kit
16	20500-507	Upper Housing
17	2095-100	Pressure Switch
18	20132-005	Fan Shroud Kit

REPAIR KITS ALSO AVAILABLE

KIT NO.	PARTS INCLUDED	DESCRIPTION
21004-202	7, 8, 10, 12	Cam bearing / diaphragm # 2 (Buna diaphragm)
21004-402	7, 8, 10, 12	Cam bearing / diaphragm # 2 (Santo diaphragm)
21046-029	6, 7, 8, 10, 12, 13	Pump service kit

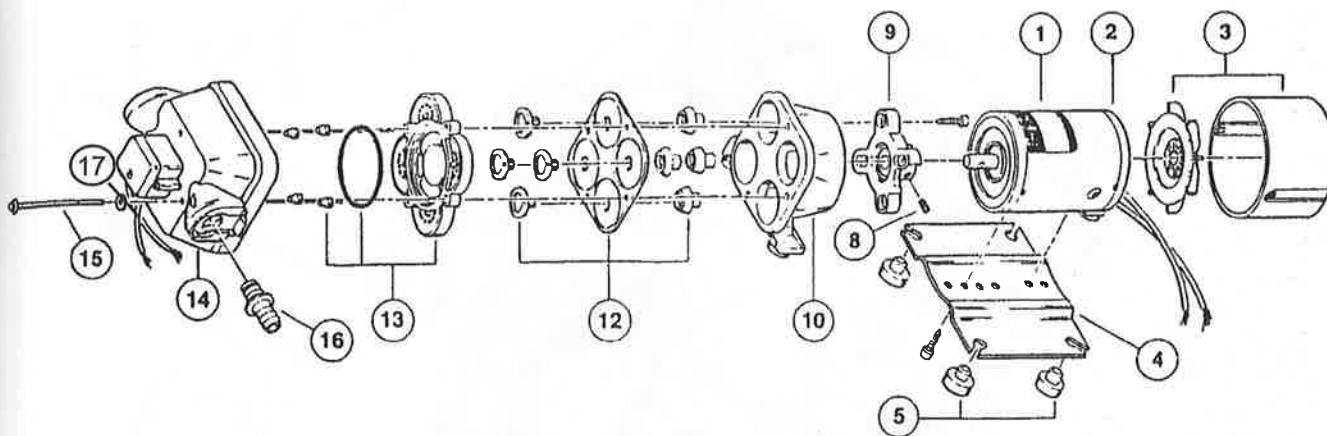
12 VOLT SINGLE DIAPHRAGM PUMPS

FLOJET 4300 SERIES



Open flow capacity: 13 L/min
 Maximum pressure capacity: 45 psi
 Voltage: 12V DC
 Current: 10 Amp

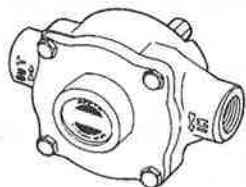
Flojet Quad 4300 Series 4300500A



POS. NO.	PART NUMBER	DESCRIPTION
2	20097-001	Brush Kit
3	20132-005	Fan Shroud Kit
4	11028-101	Baseplate Assy Kit
5	20132-000	Grommet Kit
9	20400-002	Cam Bearing Kit
10	20401-000	Bearing Cover
12	20403-040	Diaphragm Kit
13	20407-020	Valve Kit
14	20404-007	Upper Housing
16	20381-009	Hose Barb Elbow 1/2"
16	20381-015	Hose Barb 1/2"
17	2095-100	Pressure Switch

ROLLER PUMPS

HYPRO 6500C (Cast Iron)
HYPRO 6500XL (Silver Cast)

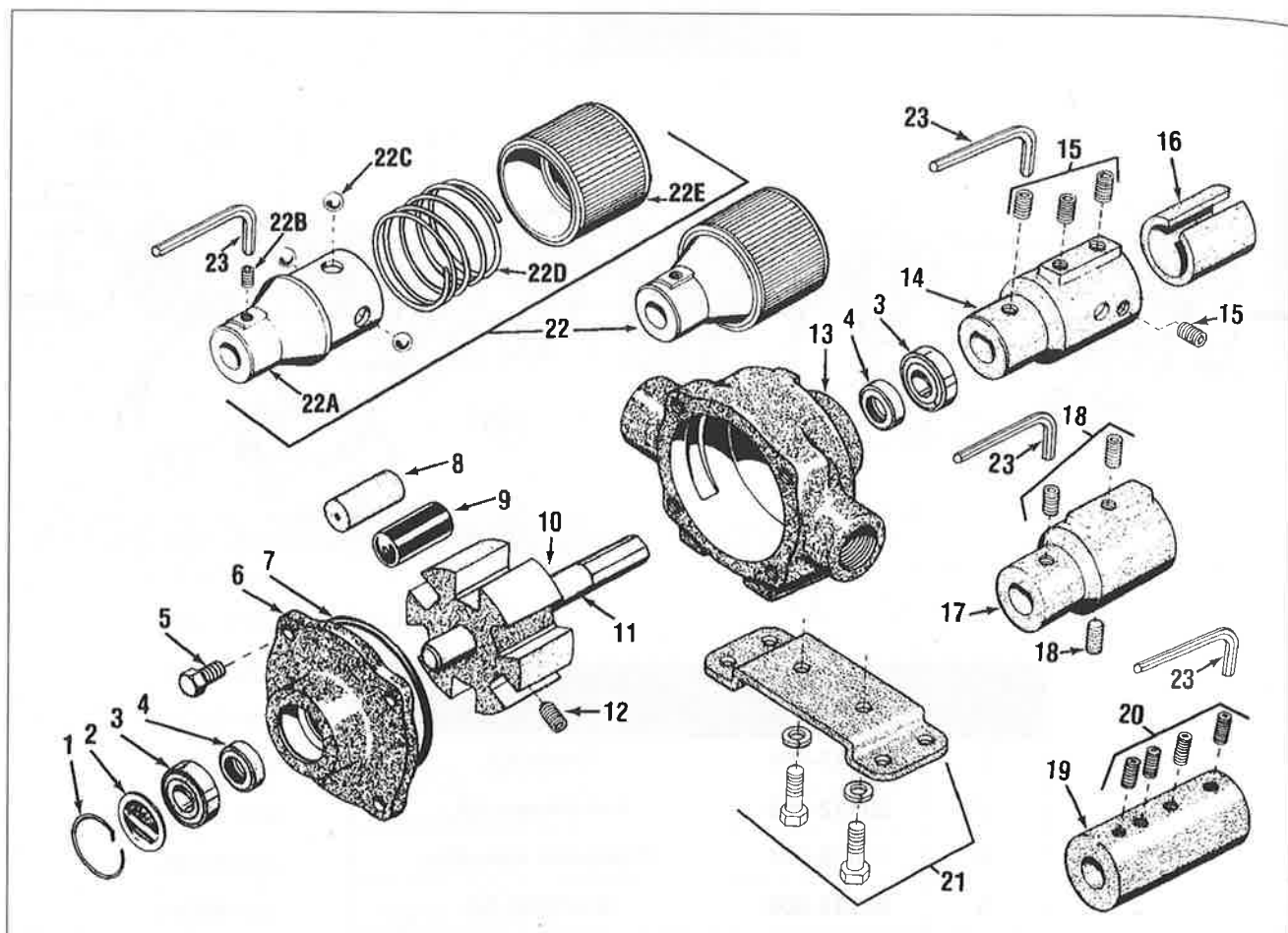


Maximum pump capacity:
Maximum pump speed:
Maximum pressure capacity:
Ports:

@ 540 rpm
36.7 l/min

@ 1000rpm
68.9l/min

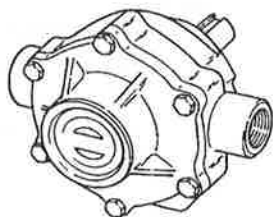
1200 RPM
20 bar (284 psi)
3/4"



POSITION NUMBER	PART NUMBER	DESCRIPTION
3	2000-0004	Ball Bearing
4	2107-0002	Viton Seal
7	1720-0008	O'ring for Endplate
8	1005-0004	Super Roller
10	0300-6600C	Rotor (Cast Iron) with Shaft
22	1321-0006	Quick Coupler Adapter for 1 3/8" 6-spline 540 RPM PTO
22	1321-0008	Quick Coupler Adapter for 1 3/8" 21-spline 1000 RPM PTO
	3PL-RPTA	Torque Arm & Chain

ROLLER PUMPS

HYPRO 7560C (Cast Iron)
HYPRO 7560XL (Silver Cast)

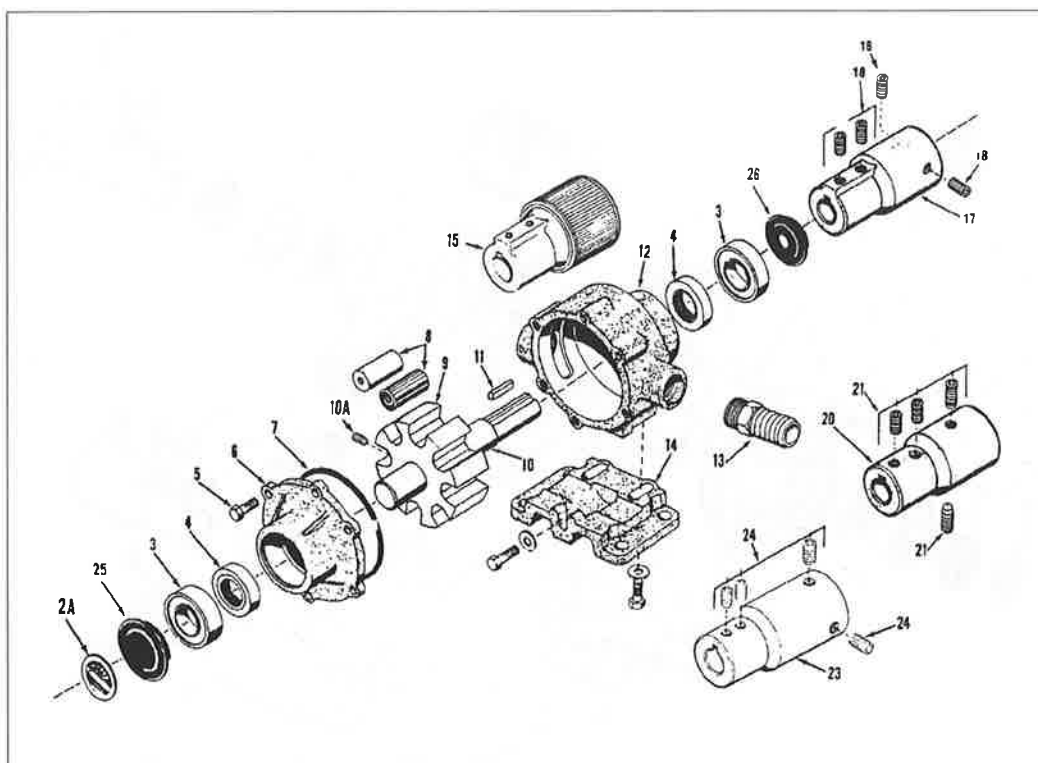


Maximum pump capacity:
 Maximum pump speed:
 Maximum pressure capacity:
 Ports:
 Shaft:

@ 540 rpm
 45 l/min

@ 1000 rpm
 85 l/min

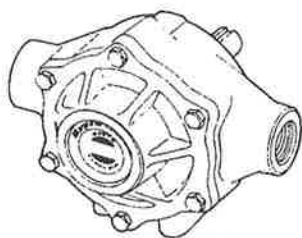
1000 RPM
 20 bar (284 psi)
 3/4"
 15/16" Solid



POSITION NUMBER	PART NUMBER	DESCRIPTION
3	2008-0001	Bearing
4	2112-0003	Seal - Viton
7	1720-0014	O Ring
8	1005-0004	Super Roller
9	0308-7560C	Rotor with Shaft
15	1321-0007	Quick Coupler Adapter for 1 3/8" 6-spline 540 RPM PTO
15	1321-0009	Quick Coupler Adapter for 1 3/8" 21-spline 540 RPM PTO
	3PL-RPTA	Torque Arm & Chain

ROLLER PUMPS

HYPRO 1700C (Cast Iron) HYPRO 1700XL (Silver Cast)

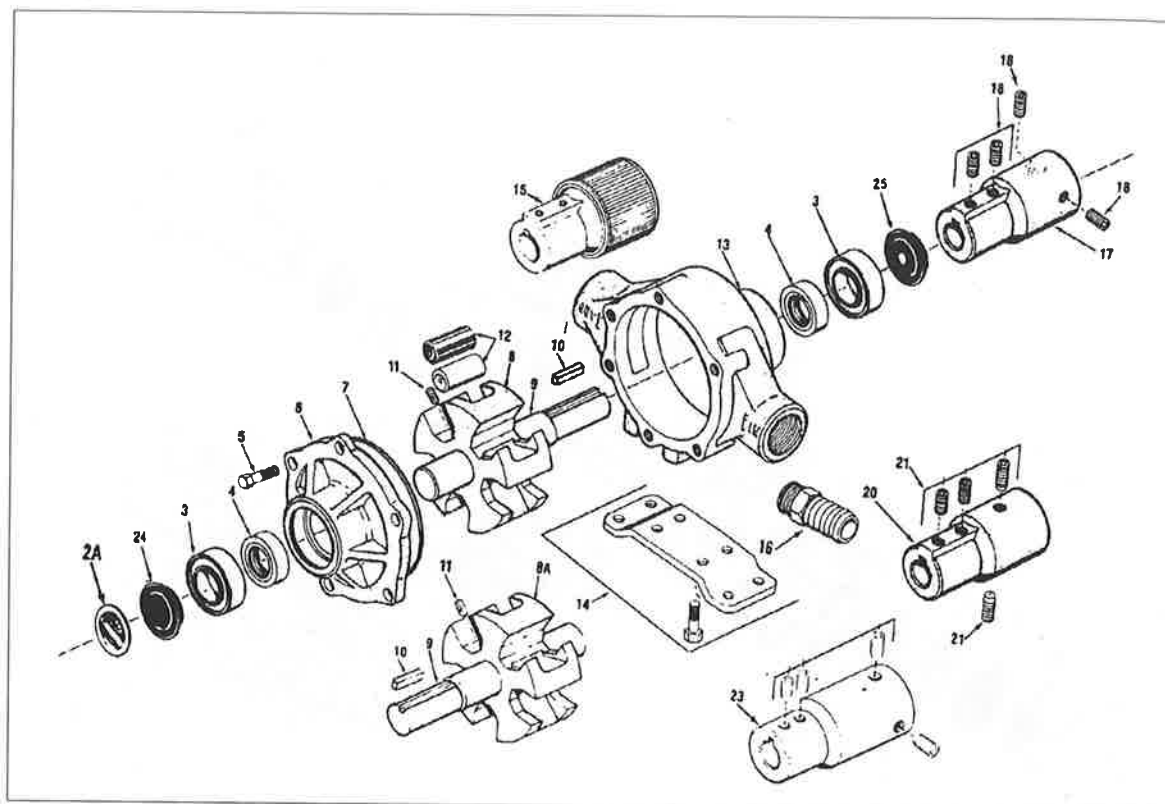


Maximum pump capacity:
Maximum pump speed:
Maximum pressure capacity:
Ports:
Shaft:

@ 540 rpm
94 l/min

@ 1000 rpm
170 rpm

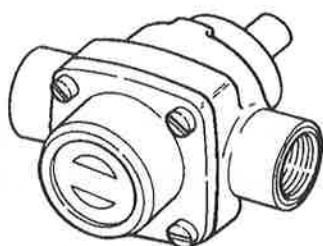
1000 RPM
13 bar (185 psi)
1"
15/16" Solid



POSITION NUMBER	PART NUMBER	DESCRIPTION
3	2008-0001	Sealed Ball Bearing
4	2112-0003	Viton Seal
7	1720-0099	O-ring Gasket for Endplate
8	0300-1700C	Rotor (Cast Iron) with shaft
12	1005-0005	Super Roller
15	1321-0007	Quick Coupler Adapter for 1 3/8" 6-spline 540 RPM PTO
15	1321-0009	Quick Coupler Adapter for 1 3/8" 21-spline 1000 RPM PTO
	3PL-RPTA	Torque Arm & Chain

ROLLER PUMPS

HYPRO 4101N (Ni-Resist)
HYPRO 4101XL (Silver Cast)

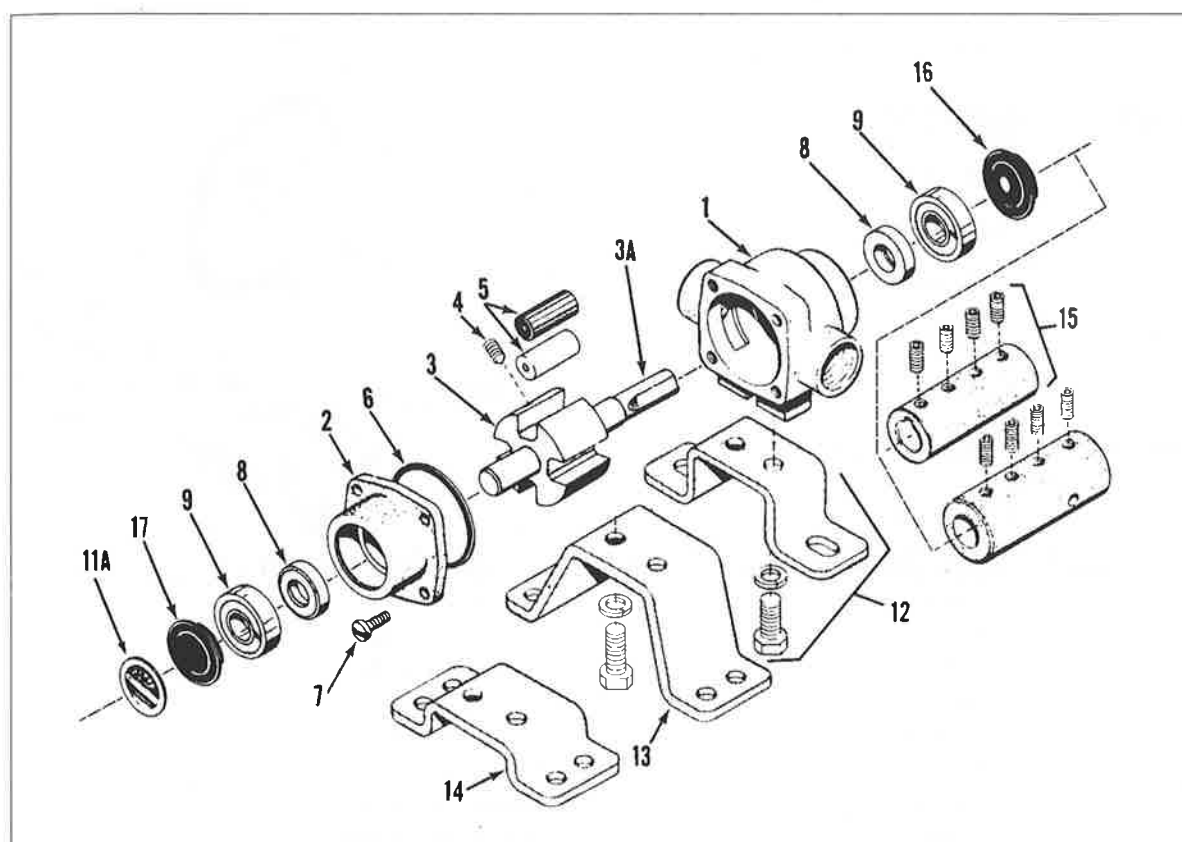


Maximum pump capacity:
 Maximum pump speed:
 Maximum pressure capacity:
 Ports:
 Shaft:

@ 1800 rpm
 19 l/min

@ 2200 rpm
 24 l/min

2600 RPM
 10 bar (142 psi)
 3/4"
 5/8" Solid



POSITION NUMBER	PART NUMBER	DESCRIPTION
3	0300-4101C	Rotor (Cast Iron) & Shaft Assembly
5	1005-0002	Super Rollers
6	1720-0104	O-Ring Gasket for Endplate
8	2107-0002	Viton Seal
9	2000-0004	Ball Bearing
	3PL-RPTA	Torque Arm & Chain

ACE HYDRAULIC CENTRIFUGAL PUMPS

FMC-HYD-204 & FMC-HYD-210



- Hydraulically driven centrifugal pump with cast iron housing.
- 1 1/4" suction x 1" pressure port sizes.
- 0-100 psi at maximum 4600 RPM and up to 280 l/min at open discharge.

Hydraulic Motor Repair Kit
Water Pump Repair Kit

RK-BAC-75-HYD
RK-FMC

TRACTOR HYDRAULIC SYSTEM REMOTE OUTLET CAPACITY (L/MIN)

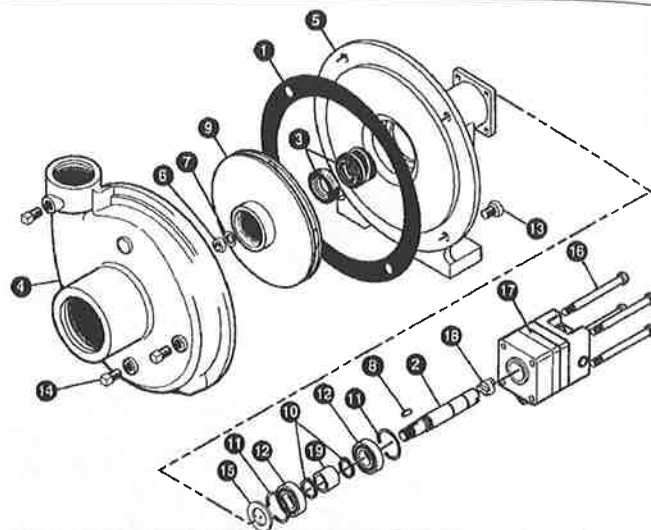
MODEL	CLOSED CENTER SYSTEM	OPEN CENTER SYSTEM
FMC HYD 204	All	*15 - 49
FMC HYD 210	Not Recommended	52 - 173

* Refer to pump manual

PRESSURE	CAPACITY
10 psi	284 l/min
30 psi	227 l/min
50 psi	190 l/min
90 psi	76 l/min
100 psi	38 l/min

RKBAC75HYD Ace hydraulic pump oil kit

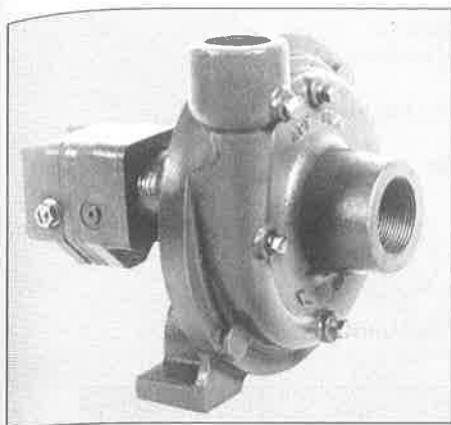
RKFMC Ace pump water kit



POSITION NO.	PART NUMBER	DESCRIPTION
1	BAC-4	Gasket, 4 Hole
2	BAC-6-HYD	5/8" Driven shaft w/tang slot
3	BAC-7V	Viton mechanical seat
4	BAC-12	1 1/4" x 1" Volute
5	BAC-14HYD	Mounting Frame
6	BACH-23-SS	3/8" N.F. Hex nut, stainless steel
7	BAC-24-HYD-SS	3/8" Washer, stainless steel
8	BACH-25	1/8" x 1/8" x 1/2" Impeller key
9	BAC-26-HYD	Impeller, Valox, w/keyway
10	BAC-32	External snap ring, BAC-6-HYD driven shaft
11	BAC-33	Internal snap ring, BAC-14-HYD mounting frame
12	BAC-37	Sealed ball bearing, BAC-6-HYD driven shaft
13	41110	1/8" NPT pipe plug
14	40950	3/8" N.C. x 3/4" Hex head cap screw
15	BAC-54	Slinger
16	41256	5/16" N.C. x 3 1/2" Hex head cap screw motor to pump (for FMC-HYD-204)
16	41257	5/16" N.C. x 4" Hex head cap screw motor to pump (for FMC-HYD-210)
17	BAC-75-HYD-204	Hydraulic motor for open center or closed center systems with integral needle valve (for FMC-HYD-204)
17	BAC-75-HYD-210	Hydraulic motor for open center or closed center systems with integral needle valve (for FMC-HYD-210)
18	BAC-76-HYD	Coupling for hydraulic motor
19	BAC-32S	Spacer for BAC-6-HYD shaft

ACE HYDRAULIC CENTRIFUGAL PUMPS

FMC-150-HYD-206

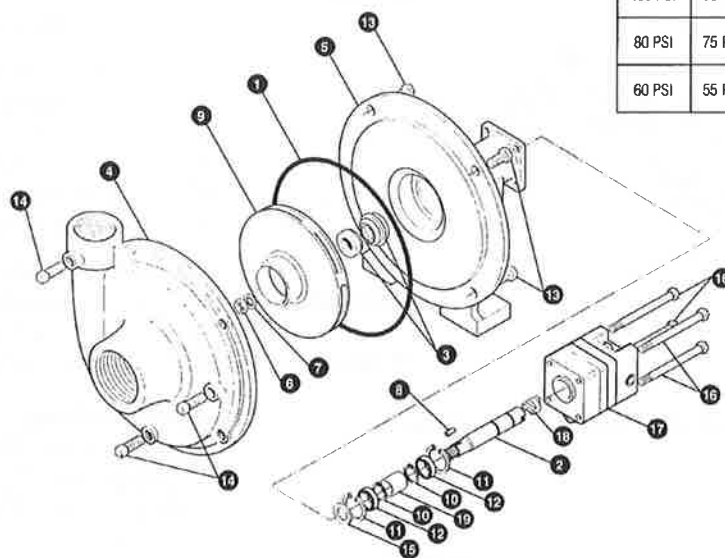


- 670 kpa at 75 L/min.
- Suction 1 1/2". Discharge 1 1/4".
- 26 L/min hydraulic motor.
- Viton mechanical seal.
- Recommended for the following Hydraulic Systems:
 - Pressure compensating John Deere type closed centre
 - Load sending variable flow Case-IH type closed centre
 - Open centre systems 26 - 60 L/min

Hydraulic Motor Repair Kit
Water Pump Repair Kit

RK-BAC-75-HYD
RK-FMC

SHUT-OFF 0 GPM	20 GPM	40 GPM	60 GPM	80 GPM	100 GPM
120 PSI	100 PSI	80 PSI	60 PSI	30 PSI	10 PSI
100 PSI	95 PSI	76 PSI	52 PSI	26 PSI	5 PSI
80 PSI	75 PSI	62 PSI	45 PSI	21 PSI	-
60 PSI	55 PSI	40 PSI	25 PSI	5 PSI	-



Ref.#	PART NO.	EDP NO.	DESCRIPTION	REQ.
*1	BAC-4-150	40015	"O" Ring, volute	1
2	BAC-6-HYD	40060	5/8" Driven shaft with tang slot	1
2	BAC-6-HYD-SS	40061	5/8" Driven shaft with tang slot, stainless steel (optional)	1
#	BAC-7B	40110	Buna-N mechanical seal (optional)	1
*3	BAC-7V	40151	Viton mechanical seal (includes 40160 "O" ring)	1
#	BAC-7SC	40152	Silicon carbide mechanical seal (includes 40160 "O" ring) (optional)	1
*#	40160	40160	"O" Ring for BAC-6-HYD shaft	1
4	BAC-12-150	40255	1 1/2" x 1 1/4" Volute	1
5	BAC-14-150-HYD	40305	Mounting frame	1
6	BACH-23-SS	40390	3/8" N.F. Hex nut, stainless steel	1
7	BAC-24-HYD-SS	40400	3/8" Lock washer, stainless steel	1
8	BACH-25	40420	1/8" x 1/8" x 1 1/2" Impeller key	1
9	BAC-26-150	40445	Impeller, w/keyway	1
10	BAC-32	40790	External snap ring, BAC-6-HYD driven shaft	2
11	BAC-33	40810	Internal snap ring, BAC-14-HYD-150 mounting frame	2
12	BAC-37	40870	Sealed ball bearing, BAC-6-HYD driven shaft	2
13	40950	40950	3/8" N.C. x 3/4" Hex head cap screw	4
13	40930	40930	3/8" N.C. x 3/4" Hex head cap screw, stainless steel (optional)	4
14	41110	41110	1/8" NPT Pipe plug	3
14	41120	41120	1/8" NPT Pipe plug, stainless steel (optional)	3
15	BAC-54	41130	Slinger	1
16	41258	41258	5/16" N.C. x 3 3/4" Hex head cap screw motor to pump (for FMC-150-HYD-206)	4
17	BAC-75-HYD-206	41372	Hydraulic motor for open-center or closed-center systems with integral needle valve (for Model FMC-150-HYD-206)	1
18	BAC-76-HYD	41380	Coupling for hydraulic motor	1

*Items included in repair kit.

#Not shown on cross section drawing.

HYPRO CENTRIFUGAL PUMPS

**Series 9300C**

Includes Models: 9303C-HM1C and 9303C-HM4C

* Hydraulic motor drive (for open and closed center systems)

* Max. flow: 373 - 864 L/min

* Max. pressure: 130 - 180 psi (in closed center operation)

* Port sizes: 9303C 1 1/2" NPT inlet

1 1/4" NPT outlet

* Max. fluid temperature 60°C

* Housing: cast iron

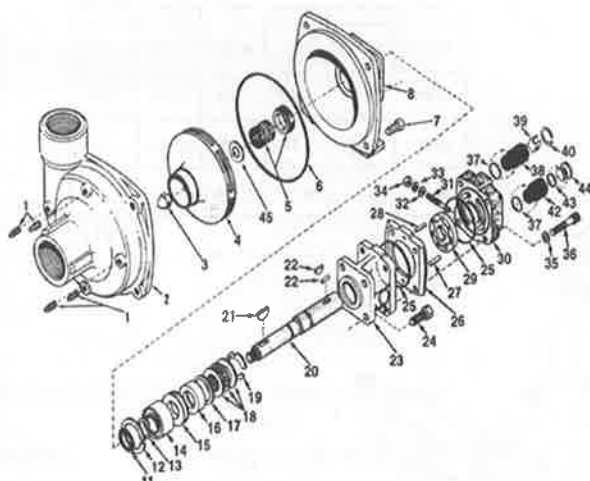
* Impeller: 9303C series: glass filled nylon

* Motor: Internal gear gerotor

* Hydraulic ports: 1/2" NPT

* Centrifugal shaft seals: Viton/ceramic are standard

* Hydraulic motor seal: double-lip Teflon



REPAIR KIT NUMBER.	LOC. NUM.	PARTS DESCRIPTION
3430-0332**	5	Mechanical Seal
	6	O-Ring
	45	Rubber gasket
3430-0178**	14	Ball bearing
	16	Motor shaft seal
	32	Thread seal gasket
	33	Washer
	25	2 Motor housing O-Rings
	37	Port adaptor O-Rings
3430-0187 (HM4 only)	37	Port adaptor O-Rings
	42	Pressure port adaptor
	43	Orifice O-Ring
	44	3 x Metering orifices

** Repair kits suit both HM1 and HM4 hydraulic motors.

* Metering orifices:

Size # 1 No. 3373-0020

Size # 2 No. 3373-0021

Size # 3 No. 3373-0022

9303C

	Hydraulic Flow	L/min at 10	L/min at 20	L/min at 30	L/min at 40	L/min at 50	L/min at 60	L/min at 70	L/min at 80	L/min at 90	L/min at 100	L/min at 110	L/min at 120	L/min at 130
HM1C	50 L/min	523	473	459	436	409	373	300	264	214	141			
	55 L/min	555	500	496	482	477	459	418	368	286	218	164	41	
	59 L/min	559	500	496	486	477	473	464	436	386	345	286	150	59
HM2C	18 L/min	318	273	205	114									
	23 L/min	377	336	395	227	168	100	18						
	27 L/min	427	391	364	327	282	227	168	100	32				
HM3C	68 L/min	427	386	332	214									
	82 L/min	500	482	446	400	314	200							
	91 L/min	555	546	523	482	432	345	264	159					
HM4C	23 L/min	382	345	300	236	155								
	27 L/min	450	409	382	355	305	195	114						
	32 L/min	500	441	418	391	350	291	218	173	64				

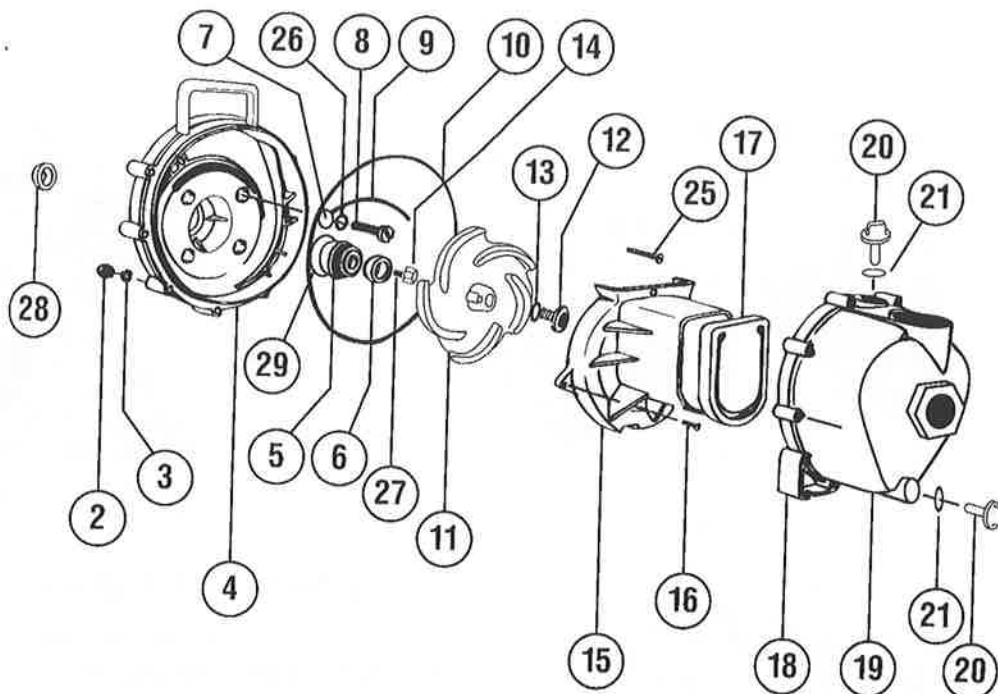
BANJO FILL PUMP



GRESEN MGG2 HYDRAULIC MOTOR

- Hydraulic fluid capacity Min 6 gal/Max 10 gal.
- 12 HP motor
- Open or closed system
- 3600 rpm

200PHY 2" Hydraulic driven polypropylene pump



No.	Description	Per Pump	Part No.
2	Body nuts SS	10	V07019
3	Lock washer SS	10	V07018
4	Poly pump rear bracket	1	12703A
5 & 6	Seal assembly*+	1	12713
7	Screw heads O ring*+	4	12717
8	Bracket screws SS	4	12715A
9	O ring segment*+	1	12754
10	Body O ring*+	1	12719A
11	5 Vane poly pump impeller+	1	12772
12	Impeller bolt SS	1	12765A
13	Impeller bolt gasket*+	1	12774VA
14	Impeller hex nut	1	12775A
15	Poly pump volute	1	12702A
16	Volute screws SS	2	12725
17	Poly pump check valve+	1	12705

No.	Description	Per Pump	Part No.
18	Poly pump body assembly	1	12712A
19	Body screws SS	10	12720
20	Prime/drain plug	2	12777
21	Prime/drain plug O ring*	2	UV15163
25	Upper volute screw SS	1	12900
26	Rear bracket washer SS	1	12901
27	Impeller key	1	12902A
28	Poly pump slinger*+	1	12706
29	O ring for seal assembly*+	1	12710
N/S	Complete bearing pedestal	1	12882A
N/S	Impeller removal bolt	1	12099
	Pump repair kit—5 vane impeller (consists of items marked with +)	1	12000A
	Pump seal/O ring kit (consists of items marked with *)	1	12999A

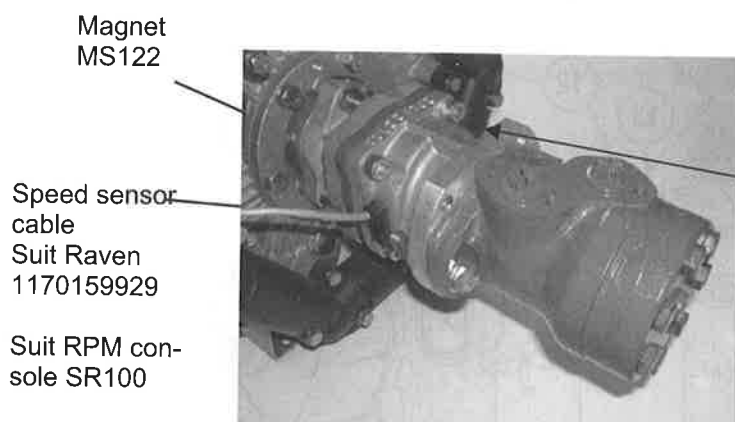
PUMP HYDRAULIC DRIVE

A hydraulic pump drive kit can be fitted to the diaphragm pump so that the pump is driven via the tractor hydraulic system rather than the tractor PTO.

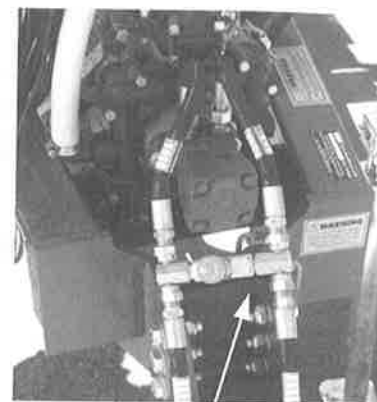
The oil line to the hydraulic pump is fitted with a needle valve that regulates oil flow to the pump. Although many tractors feature hydraulic oil flow regulation in the cab the needle valve is still fitted in case of the sprayer being coupled to an older model tractor.

When a hydraulically driven pump is fitted to a tractor fitted with in cab oil flow adjustment it is recommended to close the needle valve and adjust the hydraulic oil flow in the tractor to set the pump running at the **correct speed** (between 400-540rpm).

Depressing the speed button for five seconds on a Raven SCS440 console will show the pump speed. Sprayers not fitted with a Raven controller will have a display panel to show pump speed.



Main pump adapter
F700416600



Needle valve for pump speed regulation
FT1251212



Part number	Description	Position
1 x 67146	Hydraulic motor	A
1 x F700416600	Adaptor kit	
	1 x Housing	B1
	1 x Coupler, magnet & grub screws	B2
	3 x Studs, nuts & washers	
1 x F70288A	Spacer	C
4 x 10mm x 30mm	Socket head cap screws	D
4 x 10mm x 40mm	Socket head cap screws	E
2 x 12mm x 60mm	Bolts, nuts & washers	F
1 x 1170159929	Speed sensor	G
2 x S93-10	Hydraulic adaptors (on motor)	
2 x HL09/GA	Hydraulic hoses	H
1 x FT1251212	Hydraulic needle valve	I
2 x S83-080808	Hydraulic T adaptors	J
2 x HL08/GA	Hydraulic hoses	K
2 x R91-08M	Hydraulic couplings	L

Hydraulic Motor 67146

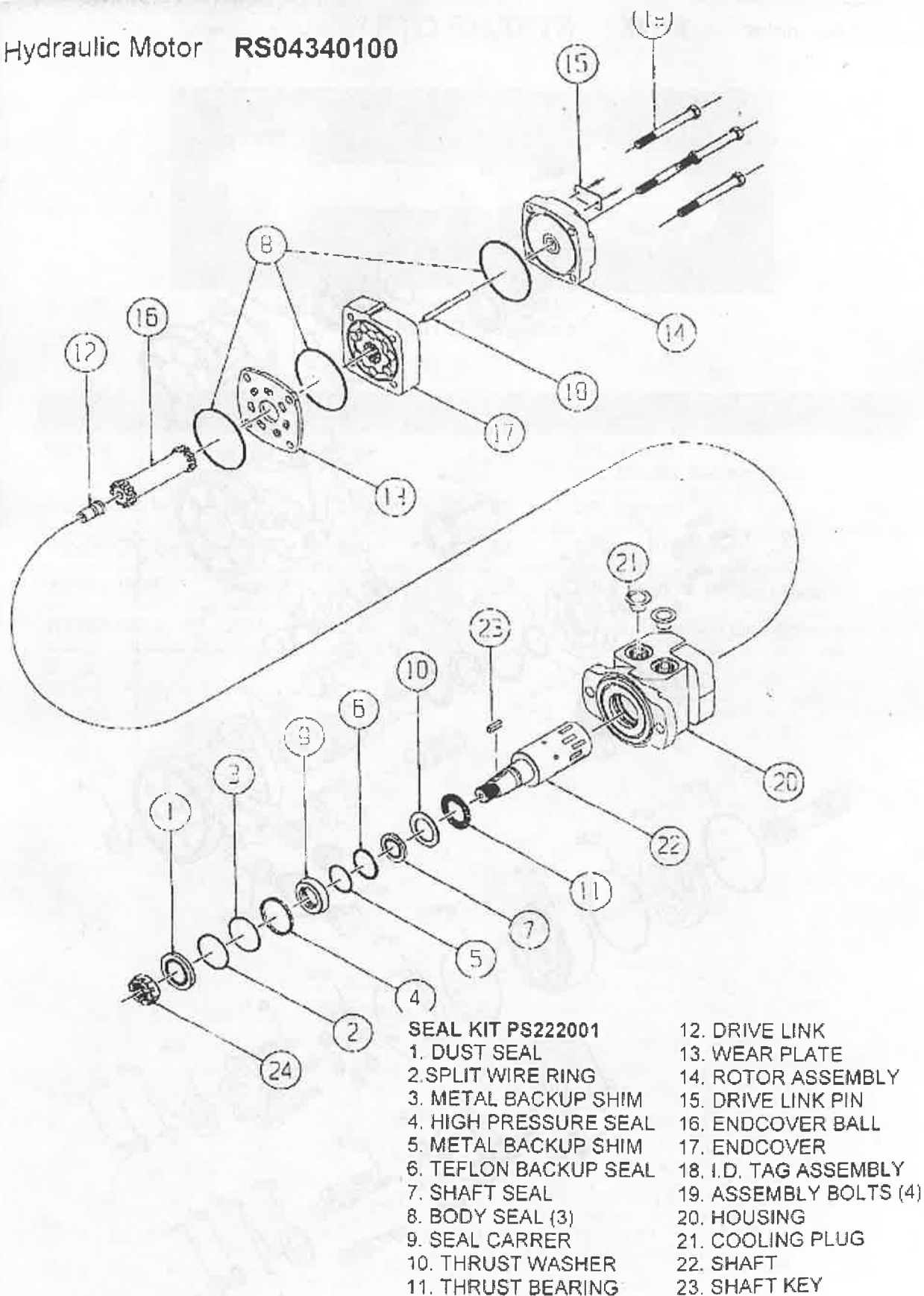
Max. Flow Rate (L/min): 40

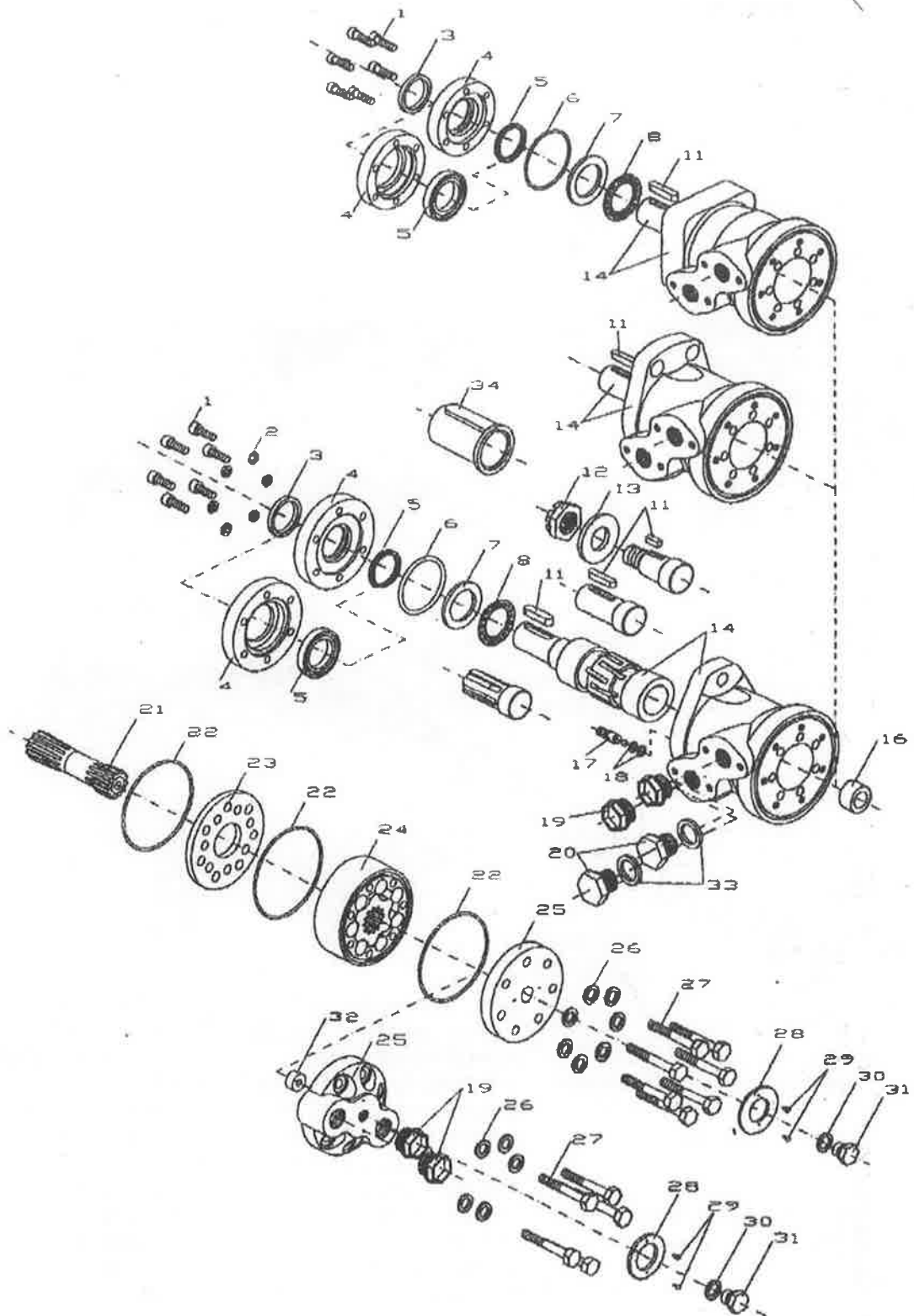
Max. Speed (RPM): 500

Max. Continuous Pressure (Kpa): 12 000

HYDDR Suit current SCS440 and shaft drive pump
HYDDMRI Suit current SCS440 and MI pump
HYDDRC Suit older controllers comes with RPM console, suits shaft drive pump
HYDDRCMI Suit older controllers comes with RPM console, suits MI pump

Hydraulic Motor RS04340100



Hydraulic drive motor **67146**

PTO SHAFTS



540 PTO - 6 spline

PART NO	SERIES	LENGTH (mm)	HP	SPRAYER TYPES
W2102	2100	510	19	3PL, Prairie 3PL Director hyd fan drive
W2200-OV/1-510	2200	510	33	3PL Director
W2200-OV/1	2200	860	33	Rowcrop, Director
W24001B/2A	2400	710	64	Front shaft for Orchard sprayer
W2300-1B2A	2300	2510	46	Through shaft for Orchard sprayer

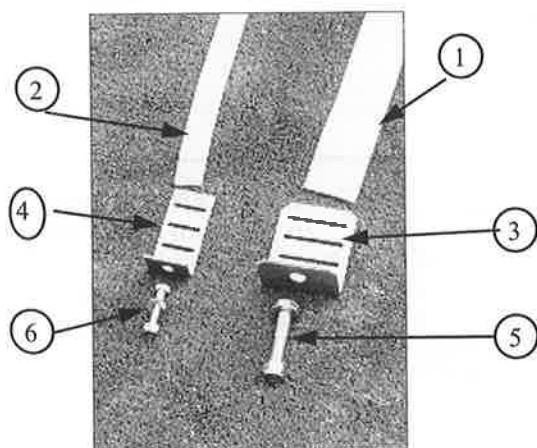
GOLDACRES TANKS

PART NO.	SIZE	DESCRIPTION	DIMENSIONS
TNK15	15L	U-shaped water tank with cap & 3/4" outlet	500L x 180W x 600H
TNK15-BR	15L	U-shaped water tank and mounting bracket	
TNK25	25L	Round ball with cap and 2x1/2" bottom outlets	370 x 370
TNK25-BR	25L	Round ball and mounting bracket	
TNK45	45L	Cylinder with cap and 2x1/2" bottom outlets	370 x 650
TNK45-BR	45L	Cylinder and mounting bracket	
TNK50-ATV	50L	Freestanding with ring sump suitable for ATV mount	900L x 340W x 350H
TNK70	70L	Induction tank with lid and 1x1 1/2" male bottom outlet	550 x 700
TNK80	80L	Spray tube with lid, strainer, straps and 1x1/2" sump outlet	1000L x 370W x 450H
TNK80-CR	80L	Spray tube and cradle	
TNK100	100L	Spray tube with lid, strainer, straps and 1x1/2" sump outlet	1000L x 370W x 500H
TNK100-FB	100L	Spray tube skid base	
TNK100-CR	100L	Spray tube and cradle	
TNK100-EX	100L	Exacta Foam/water with lid or cap and 2x1/2" bottom outlets	550 x 800
TNK100-EX-CR	100L	Exacta Foam/water and cradle	
TNK100-H	100L	Header tank to suit 1000L, 1200L, 1500L & 1800L linkage tanks	898L x 600W x 384H
TNK120	120L	Square with lid, strainer and 1x1/2" sump outlet	580L x 520W x 590H
TNK120-CR	120L	Tank and cradle	
TNK200	200L	Tank with lid, strainer, straps, sight tube and 1x3/4", 1x1/2" sump outlet	1000L x 540W x 660H
TNK200-SKID	200L	Skid base 200L tank, lid & strainer	900L x 500W x 700H
TNK200-CR	200L	Tank and cradle	
TNK200-FW	200L	Rinse tank	900L x 500W x 700H
TNK300	300L	Tank with lid, strainer, straps, sight tube and 1x3/4", 1x1/2" sump outlets	1000L x 540W x 850H
TNK300-CR	300L	Tank and cradle	
TNK300-3PL	300L	Tank and 3PL frame	
TNK300-FW	300L	Rinse tank	
TNK400	400L	Tank with lid, strainer, straps, sight tube and 1x3/4", 1x1/2" sump outlets	1200L x 680W x 780H
TNK400-CR	400L	Tank and cradle	
TNK400-3PL	400L	Tank and 3PL frame	
TNK400-MIX	400L	Mixing tank. Water carting etc. Including legs.	
TNK600	600L	Tank with lid, strainer, straps, sight tube and 1x3/4", 1x1/2" sump outlets	1200L x 680W x 1030H
TNK600-CR	600L	Tank and cradle	
TNK600-3PL	600L	Tank and 3PL frame with step	
TNK800	800L	Tank with lid, strainer, straps, sight tube and 1x3/4", 1x1/2" sump outlets	1200L x 680W x 1280H
TNK800-CR	800L	Tank and cradle	
TNK800-3PL	800L	Tank and 3PL frame with step	
TNK1000	1000L	Low-line tank with lid, strainer, straps, sight tube and 2x1 1/2" sump outlets	1440L x 1250W x 900H
TNK1000-BM	1000L	Tank and base mount	
TNK1000-3PL	1000L	3PL tank with lid, strainer, straps, sight tube (header tank TNK100-H not included)	1750L x 950W x 1120H
TNK1000-3PLF	1000L	3PL tank & frame with step	
TNK1000-3PL-LW	1000L	3PL Tank	
TNK1000-3PLF-LW	1000L	Tank & 3PL frame with step	

GOLDACRES TANKS

TNK1200	1200L	Low-line tank with lid, strainer, straps, sight tube and 2x1 1/2" sump outlets	1440L x 1250W x 1030H
TNK1200-BM	1200L	Tank and base mount	
TNK1200-3PL	1200L	3PL tank with lid, strainer, straps, sight tube (header tank TNK100-H not included)	1750L x 950W x 1257H
TNK1200-3PLF	1200L	3PL tank & frame with step	
TNK1500	1500L	Tank with lid, strainer, straps, sight tube and 2x1 1/2" sump outlets	1580L x 1200W x 1500H
TNK1500-BM	1500L	Tank and base mount	
TNK1500-ORC	1500L	Orchard sprayer tank with tube including lid, strainer, straps, sight tube	2200L x 1100W x 1100H
TNK1500-3PL	1500L	3PL tank with lid strainer, straps, sight tube (header tank TNK100-H not included)	1750 x 950 x 1462
TNK1800-3PL	1800L	3PL tank with lid, strainer, straps, sight tube (header tank TNK100-H not included)	1750 x 950 x 1670
TNK2000	2000L	Tank with lid, strainer, straps, sight tube and 2x1 1/2" sump outlets	2200L x 1200W x 1500H
TNK2000-BM	2000L	Tank and base mount	
TNK2000-ORC	2000L	Orchard sprayer tank with tube including lid, strainer, straps, sight tube	2700L x 1100W x 1100H
TNK2000-SH	2000L	Tank with lid, strainer, straps, sight tube and 2x1 1/2" sump outlets	
TNK2500	2500L	Tank with lid, strainer, straps, sight tube and 2x1 1/2" sump outlets	2700L x 1200W x 1500H
TNK2500-BM	2500L	Tank and base mount	
TNK3000	3000L	Tank with lid, strainer, straps, sight tube and 2x1 1/2" sump outlets	3000L x 1200W x 1500H
TNK3000-BM	3000L	Tank and base mount	
TNK4000	4000L	Tank with lid, strainer, straps, sight tube and 2x1 1/2" sump outlets	3000L x 1420W x 1570H
TNK4000-BM	4000L	Tank and base mount	
TNK4000-SH	4000L	Tank with lid, strainer, straps, sight tube and 2x1 1/2" sump outlets	1964L x 1900W x 1580H
TNK4000-SH-BM	4000L	Tank and base mount	
TNK5000	5000L	Tank with lid, strainer, straps, sight tube and 2x1 1/2" sump outlets	3315L x 1455W x 1747H
TNK5000-BM	5000L	Tank and base mount	
TNK6000	6000L	Tank with lid, strainer, straps, sight tube and 2x1 1/2" sump outlets	3254L x 1900W x 1500H
TNK6000-NAR	6000L	Tank with lid, strainer, straps, sight tube and 2x1 1/2" sump outlets	4000L x 1455W x 1747H
TNK6000-NAR-BM	6000L	Narrow tank and base mount	
TNK8000	8000L	Tank with lid, strainer, straps, sight tube and 2 X 1 1/2" outlets. 2x1 1/2" sump outlets	

TANK STRAP AND BRACKETS



POS. NO.	PART NO.	DESCRIPTION	TANK SIZES (Lt)
1	0110550002	50mm Orange Tank Strap	400 - 4000
2	0110525002	25mm Orange Tank Strap	200 - 300
3	TNK-BRK-50	50mm Tank Strap Bracket	
4	TNK-BRK-25	25mm Tank Strap Bracket	
5	M12X60	12mm x 60mm Bolt	
6	M8X40	8mm x 40mm Bolt	

GOLDACRES TANK LIDS



ATV LID
Lid to suit 50Lt
ATV tank

Diameter:
170mm **354010**



SMALL LID
To suit 12V sprayers
and flush water tank.

Diameter: 255mm
352022



**BREATHER TO
SUIT SMALL LID**

504203



MEDIUM LID
To suit 3PL, Prairie, Tray Mount,
Crop Cat, Rowcrop Sprayers.
Diameter: 355mm
352040



LID
Lid to suit 20 Lt Chubby
& 30 Lt Squirt
Diameter: 120mm
354230

LARGE LID
To suit Director and Orchard
Sprayers.
Diameter: 455mm
352060



**BREATHER TO SUIT
MEDIUM/LARGE LIDS**

352000



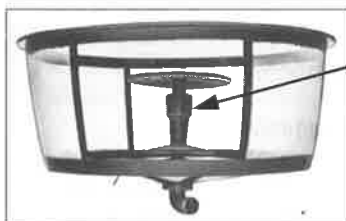
LID RING
To suit 255mm Small Lid
350420

To suit 355mm Medium Lid
350440

To suit 455mm Large Lid
350460



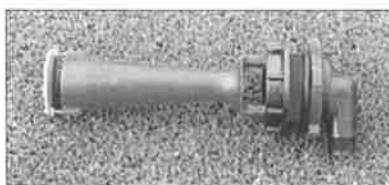
BASKET STRAINERS:
Small: **300110**
Medium: **300120**
Large: **300126**



**BASKET STRAINER
POWDER UMBRELLA
MIXER**
To suit Orchard Sprayer
large basket strainer.
502001



SUPERMIX AGITATOR
Standard on 2000L - 6000L
Prairie Sprayers **502053**
Supermix O Ring **502**
Supermix Nut **502010**
Supermix Jet **502053-JET**



D349204 Hydro-jet Venturi Agitator
Complete



INDUCTION HOPPER LID
To suit 70L Induction Hopper
E1180-405



FOAM MARKER TANK LID
To suit foam marker tank

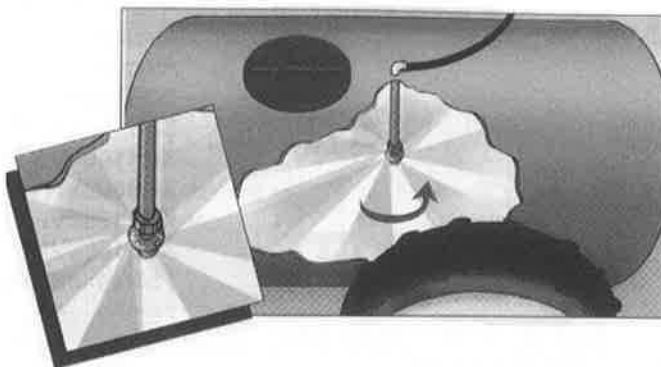
Lid **P24730**
O Ring **FMO50X5**

TANK FLUSHING KIT

Tank Flushing Kit Single TFLUSHN-UN-SINGLE
 Kit includes: 1 x tank rinsing nozzle assembly, 2 x EL34 elbows, 4 Mt x 3/4" hose, 2 x 3/4" hose clamps.

Tank Flushing Kit Double TFLUSHN-UN-DOUBLE
 Kit includes: 2 x tank rinsing nozzle assemblies, 2 x EL34 elbows, 1 x T34T t-piece, 4 Mt x 3/4" hose, 4 x 3/4" hose clamps.

- * Fluid driven rotational spray head.
- * 360° effective rinsing of inside surface of tank.
- * Made of corrosion resistant material.
- * 3/4" BSP thread.
- * Easily dismantled for cleaning.



Tank rinsing nozzle assembly
TRNA



Tank rinsing valve
L033A

XR TeeJet®

Extended Range Flat Spray Tips



Available in stainless steel (VS), hardened stainless steel (VH), in 80° and 110° spray angles.

Available in polymer (VP) in 110° only in sizes 02 through 08.

Available in ceramic (VK) in sizes 03 through 08.

All materials have VisiFlo® colour-coding

TO ORDER:

Specify TIP NUMBER, examples:

XR11004VS - Stainless Steel, 110° spray angle, size 04.

XR8002VH - Hardened Stainless Steel, 80° spray angle, size 02.

XR11002VP - Polymer, 110° spray angle only, size 02.

XR11008VK - Ceramic, 110° spray angle, size 08.*

* Minimum pressure rating for VK tip is 1½ bar.

TYPICAL APPLICATIONS:

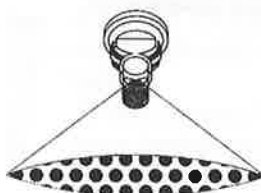
EXCELLENT: Pre-emergence surface applied herbicides - At medium pressure (1½ - 2 bar) produces medium size droplets for good surface coverage in applications such as minimum tillage.

EXCELLENT: Post-emergence systemic herbicides - At lower pressures (1 - 1½ bar) helps to control drift.

GOOD: Post-emergence contact herbicides - At higher pressures (2 - 4 bar) produces smaller droplets for better coverage. Wide angle 110° tips produce smaller droplets than 80° tips at equal pressure.



Turbo TeeJet®



FEATURES:

- ~ Tapered edge wide angle flat pattern for uniform coverage in broadcast spraying.
- ~ Large, round free passages to minimise clogging.
- ~ Excellent resistance to corrosive solutions.
- ~ Superior wear characteristics.
- ~ Larger droplets for less drift

TYPICAL APPLICATIONS:

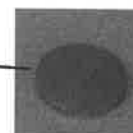
- ~ Best for pre-emergence surface applied herbicides - minimum spray pressure of 1 bar.
- ~ Best for post-emerge contact herbicides - typical pressures of 3 bar and higher.

TO ORDER:

Example: TT11002VP

TIP PLUG

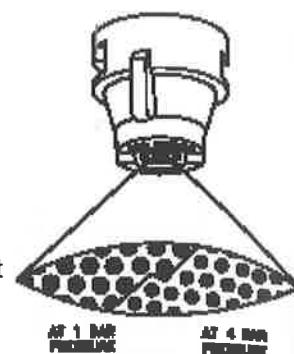
Plug tip is used to temporarily shutoff selected nozzles by replacing spray tips with these plug tips. **CP3942**



XRC TeeJet Tip Cap

FEATURES:

- ~ One piece tip/cap construction for ease of use.
- ~ Tip insert offered in stainless steel (VS), polymer (VP) and ceramic (VK) materials.
- ~ Caps and polymer tip inserts feature VisiFlo colour coding.
- ~ Excellent spray distribution over a wide range of pressures (1 -4 bar).
- ~ Tip insert produces tapered edge flat spray pattern for uniform coverage in broadcast spraying.
- ~ Reduces drift at lower pressures, provides better coverage at higher pressures.
- ~ Ideal for sprayers equipped with automatic control systems.
- ~ Improved gasket retention.

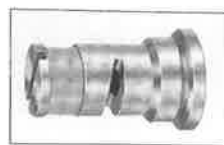


TYPICAL APPLICATIONS:

- ~ Excellent for pre-emerge surface applied herbicides at medium pressures (1.5—2 bar).
- ~ Excellent for post-emerge systemic herbicides at lower pressures (1—1.5 bar) helps to control drift.
- ~ Excellent for post-emerge contact herbicides at higher pressures (2—4 bar) produces smaller droplets for better coverage.
- ~ Good for pre-plant incorporated herbicides at lower spraying pressures (1—1.5 bar) produces larger spray droplets and reduces drift.

Tip Color VisiFlo	Tip No. (Strainer Screen Size)	Liquid Pressure in Bar	Capacity 1 Nozzle in l/min	Liters Per Hectare 50 cm Spacing				Liters Per Hectare 75 cm Spacing			
				8 km/hr	10 km/hr	12 km/hr	16 km/hr	8 km/hr	10 km/hr	12 km/hr	16 km/hr
TURQUOISE	XRC110025-V- (50 Mesh)	1.0	0.57	85.5	88.4	57.0	42.8	57.0	45.6	38.0	28.5
		1.5	0.70	105	84.0	70.0	52.5	70.0	56.0	46.7	35.0
		2.0	0.81	122	97.2	81.0	60.8	81.0	64.6	54.0	40.5
		3.0	0.99	148	119	99.0	74.3	99.0	79.2	66.0	49.5
		4.0	1.14	171	137	114	85.5	114	91.2	76.0	57.0
BLUE	XRC11003-V- (50 Mesh)	1.0	0.68	102	81.6	88.0	51.0	68.0	54.4	45.3	34.0
		1.5	0.83	125	99.6	83.0	62.3	83.0	66.4	55.3	41.5
		2.0	0.96	144	116	96.0	72.0	96.0	76.8	64.0	48.0
		3.0	1.18	177	142	118	88.5	118	94.4	78.7	59.0
		4.0	1.36	204	163	136	102	136	109	90.7	68.0
RED	XRC11004-V- (50 Mesh)	1.0	0.91	137	109	81.0	68.3	91.0	72.8	60.7	45.5
		1.5	1.11	167	133	111	83.3	111	88.8	74.0	55.5
		2.0	1.29	184	155	129	96.8	129	103	86.0	64.5
		3.0	1.58	237	190	158	119	158	126	105	79.0
		4.0	1.82	273	218	182	137	182	146	121	91.0
BROWN	XRC11005-V- (50 Mesh)	1.0	1.14	171	137	114	85.5	114	91.2	76.0	57.0
		1.5	1.40	210	173	140	105	140	112	93.3	70.0
		2.0	1.61	242	193	161	121	161	129	107	80.5
		3.0	1.87	296	236	197	148	197	156	131	96.5
		4.0	2.27	341	272	227	170	227	182	151	114

Turbo FloodJet®



Available in Stainless Steel (VS) with VisiFlo® colour-coding band for easy size identification.

TO ORDER:

Specify TIP NUMBER, example:

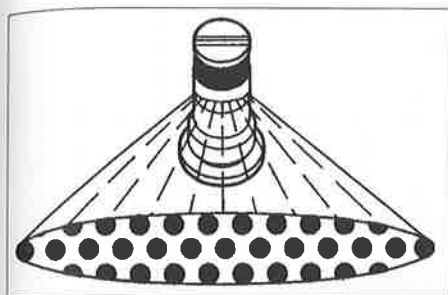
TF-VS4 - Stainless Steel with VisiFlo® colour-coding, size 4.

TYPICAL APPLICATIONS:

EXCELLENT: Soil incorporated herbicides - Use at lower pressures (0.7 - 1.7 bar) to produce larger droplets for reduced drift. Mount on 50 - 100 cm spacing.

EXCELLENT: Pre-emerge herbicides - Use at 0.7 to 1.7 bar to reduce drift and provide uniform coverage. Also good for broadcast application of liquid fertilizers.

EXCELLENT: Post-emerge systemic herbicides - Use at 1.4 - 2 bar to control drift. Provides uniform coverage along spray boom. 75 cm spacing are suggested for post-emerge applications.

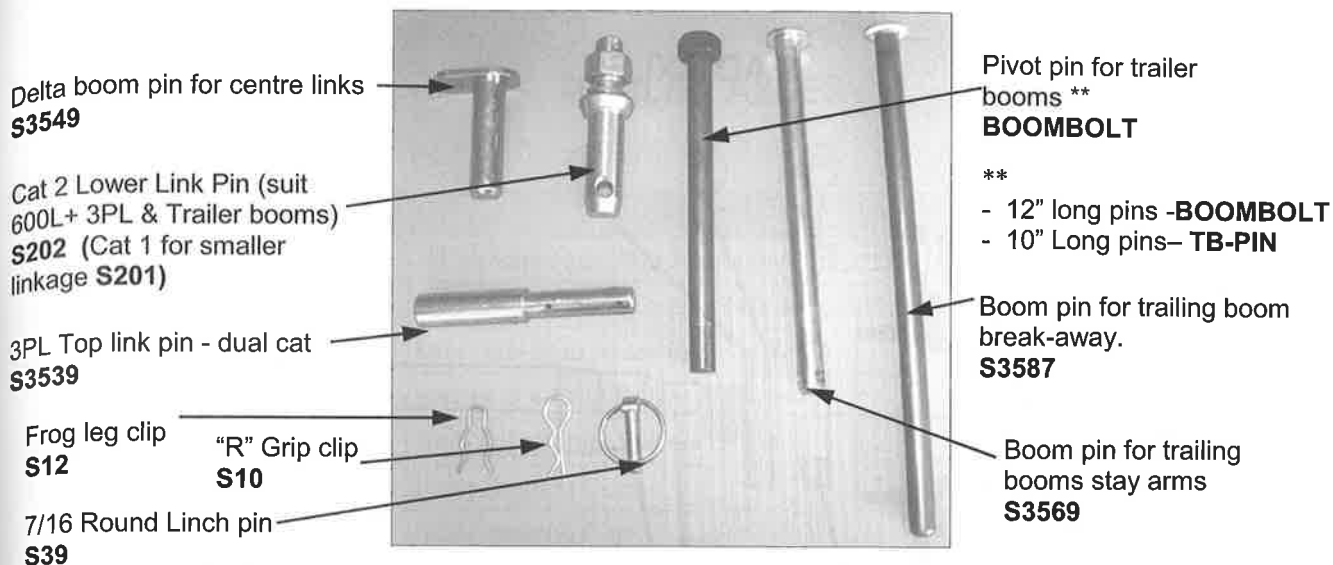


FEATURES:

- ~ Excellent spray distribution for uniform coverage along the boom.
- ~ Nozzle design incorporates a pre-orifice to produce larger droplets for less drift.
- ~ Large, round orifice reduces clogging.
- ~ Can be used with No. CP25599- -NY Quick TeeJet® cap for automatic alignment.

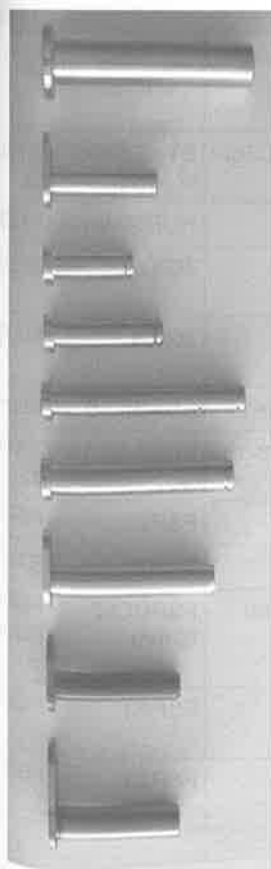
TIP COLOR VisiFlo®	TIP No. (STRAINER MESH SIZE)	LIQUID PRESSURE IN bar	CAPACITY 1 NOZZLE IN l/min	LITERS PER HECTARE 100 cm SPACING			
				6 km/h	8 km/h	10 km/h	12 km/h
RED	TF-VS2 (50 MESH)	1	0.91	91.0	68.3	54.6	45.5
		1.5	1.12	112	84.0	67.2	56.0
		2	1.29	129	96.8	77.4	64.5
BROWN	TF-VS2.5 (50 MESH)	1	1.14	114	85.5	68.4	57.0
		1.5	1.40	140	105	84.0	70.0
		2	1.61	161	121	96.6	80.5
GRAY	TF-VS3 (50 MESH)	1	1.37	137	103	82.2	68.5
		1.5	1.67	167	125	100	83.5
		2	1.93	193	145	116	96.5
WHITE	TF-VS4	1	1.82	182	137	109	91.0
		1.5	2.23	223	167	134	112
		2	2.58	258	194	155	129
L. BLUE	TF-VS5	1	2.28	228	171	137	114
		1.5	2.79	279	209	167	140
		2	3.22	322	242	193	161
L. GREEN	TF-VS7.5	1	3.42	342	257	205	171
		1.5	4.19	419	314	251	210
		2	4.83	483	362	290	242
BLACK	TF-VS10	1	4.56	456	342	274	228
		1.5	5.58	558	419	335	279
		2	6.45	645	484	387	323

ATTACHMENT PINS



CATEGORY	DIMENSIONS TOP LINK	DIMENSIONS LOWER LINK
Cat 1	3/4" 19mm	7/8" 22mm
Cat 2	1" 25mm	1 1/8" 28mm
Cat 3	1 1/4" 32mm	1 7/16" 36mm

DELTA BOOM PINS



PCH-019MACH 190mm x 40mm Main chassis pin

S3549 100mm x 1" pin

L054A 80mm x 1" Tilt ram pin

L001A 105mm x 1" Ram pin

L002A 180mm x 1" Boom pin

L003A 170mm x 1 1/8" Boom pin

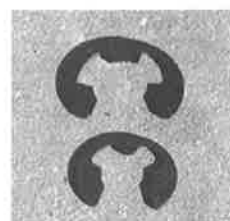
PIN-118-115 150mm x 1 1/8" Paralift arm pin

PIN-1-110 110mm x 1" Paralift bottom pin

PIN-30-110 115mm x 30mm Spring roller pin.

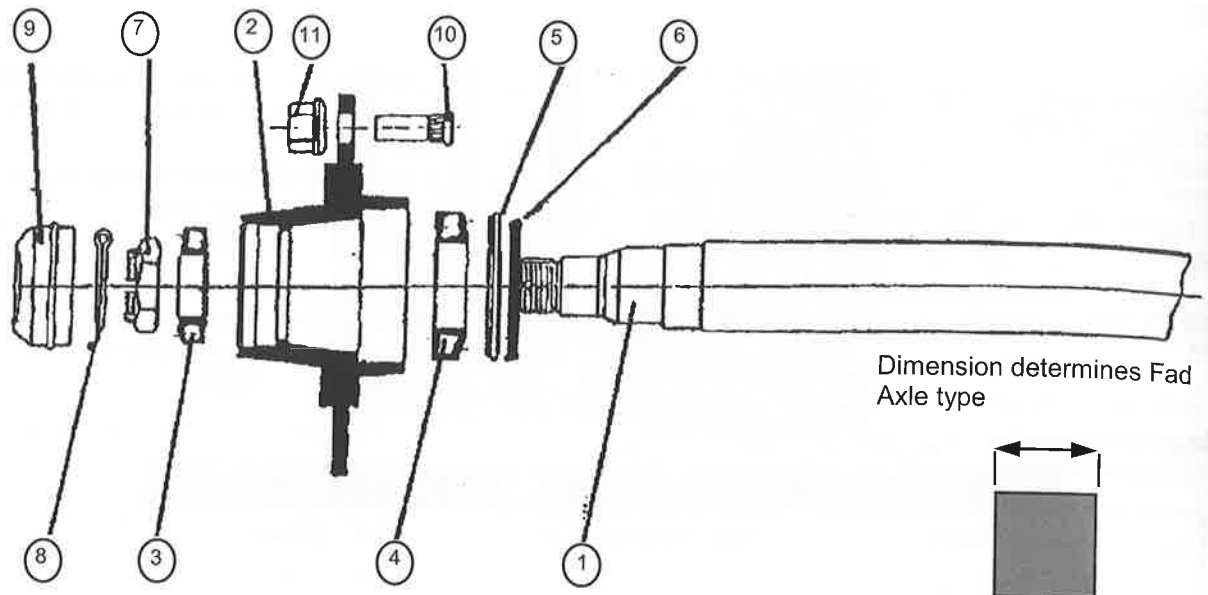
24mm circlip suit L003A pin
54024004

19mm circlip suit L001A & L002A pins
54019004



AXLES

FAD AXLES



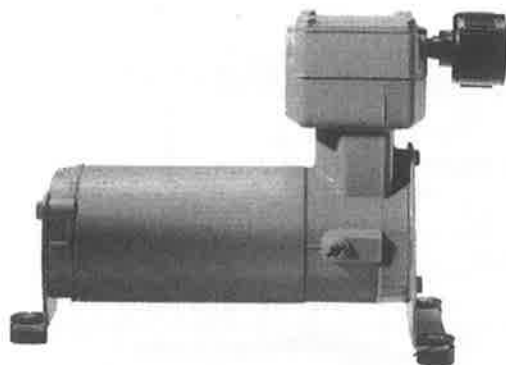
POS NO	DESCR- PTION	PART NUMBER							
		90H-10 (033.140.010)	FAD80-8 (A808009)	FAD80-6 (A806012)	FAD70-8 (A708015)	FAD70-6 (A706091)	FAD60-6 (A606085)	FAD50S-6 (A506040)	FAD50-6 (A506012)
	CARRYING CAPACITY PER HUB (KG)	5500	4250	4250	3250	3000	2350	1500	1000
1	Stub	S1045	STUB80SQ	STUB80SQ	STUB70SQ	STUB70SQ	STUB60SQ	STUB50SQ	STUB40SQ
2	Hub	033.140.060	HUB80-8	HUB80	HUB70-8	HUB70	HUB60	HUB50-6	HUB40-6
3	Outer Bearing	920.000.840	32211	32210	32210	30210	30208	30206	30204
4	Inner Bearing	920.000.799	32215	32214	32213	30213	30211	30209	30207
5	Seal	920.000.763	S90-130-12	S85-125-12	S80-120-12	S80-120-12	S70-100-10	S53-85-10	S48-80-10
6	Seal Ring	033-140-050	SR72-85-13	SR72-85-13	SR67-80-13	SR67-80-13	SR57-70-13	SR46-53-13	SR46-53-13
7	Axle Nut		FSP24	FSP24	FSP24	FSP24	FSP22	FSP21	FSP20
8	Split Pin	920.000.974	S1506	S1506	S1506	S1506	S1506	S1506	S1506
9	Grease Cap	033-175-070	FSPDC100 100mm	FSPDC90 90mm	FSPDC90 90mm	FSPDC90 90mm	FSPDC80 80mm	FSPDC62 62mm	FSPDC62 62mm
10	Wheel Stud	170.052.010	FSP44	FSP44	FSP44	FSP44	FSP44	FSP43	FSP42
11	Wheel Nut	170.070.010	FSP34	FSP34	FSP34	FSP34	FSP34	FSP33	FSP32

AXLES

TRAILER AXLES

PART NO.	DESCRIPTION	TO SUIT:
HS1	HT Holden Hub-Stub Assembly	
H1	HT Holden Hub 5-Stud Drilled & Studded	HT Holden
HS4716	Mini Hub-Stub Assembly	ATV Trailer Frames
H4716	Mini Hub 4-Stud Drilled & Studded	Mini
A3912LM	Stub Axle 39mm Round 12"	HT Holden & Mini
LM67048	Inner Bearing Cone	HT Holden & Mini
LM67010	Inner Bearing Cup	HT Holden & Mini
LM11949	Outer Bearing Cone	HT Holden & Mini
LM11910	Outer Bearing Cup	HT Holden & Mini
GS609	Grease Seal	HT Holden & Mini
GC1	Grease Cap	HT Holden & Mini
AN34	Axle Nut 3/4"	HT Holden & Mini
WN716	Wheel Nut 7/16"	HT Holden & Mini
WS716	Wheel Stud 7/16"	HT Holden & Mini
AW1	Axle Washer	HT Holden & Mini
SP1	Axle Split Pin	HT Holden & Mini
BLM	Bearing Cup & Cone Set 11910/49 &	HT Holden & Mini
BALM	Bearing Assembly Complete	HT Holden & Mini

GOLDACRES AIR-BAG SUSPENSION COMPRESSOR

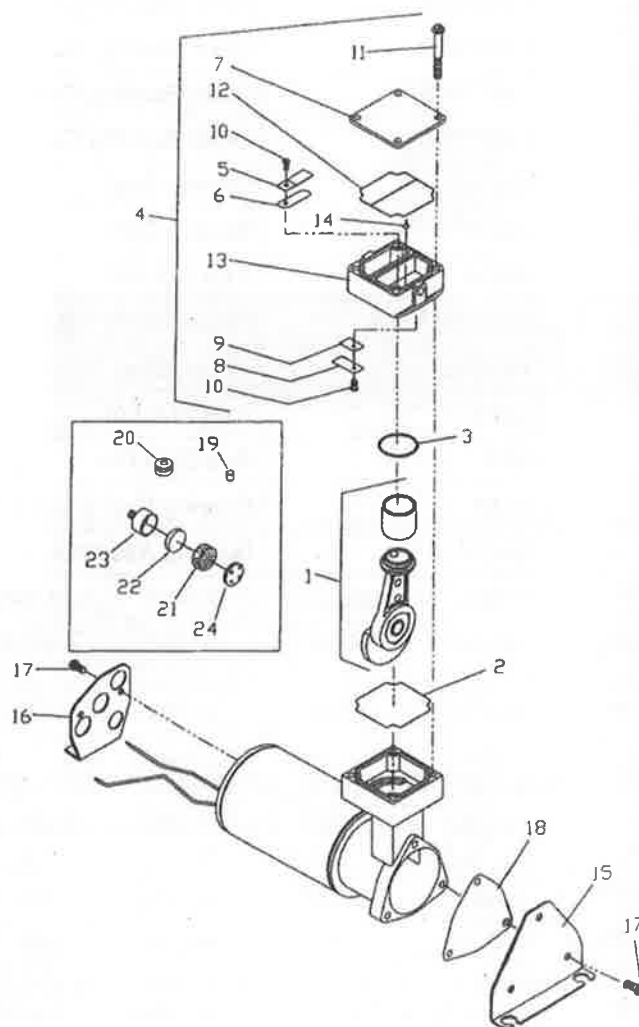


This compressor is used for the Air-bag suspension on Prairie sprayers.

315CDC 40/12-194A

Bare compressor

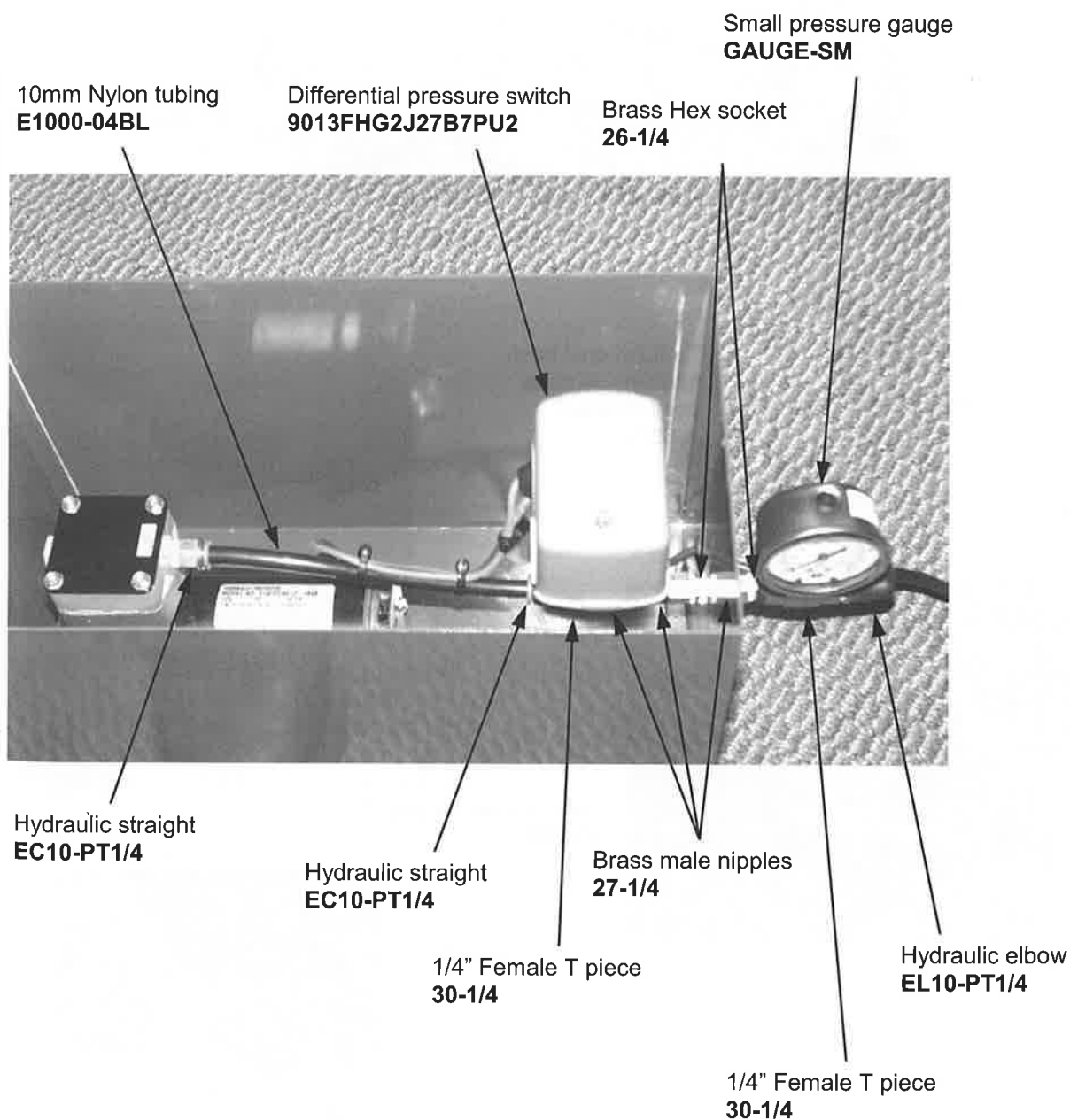
POS. NO.	PART NO.	DESCRIPTION	Qty
1	See chart	Connecting rod ecc & Brg. Assy.	1
2	623622	O ring gasket—Head	1
3	623557	O ring—Sleeve	1
4	664792	Head assembly	1
5	617250	Valve restraint	1
6	621102	Valve flapper—exhaust	1
7	621602	Head plate	1
8	621533	Valve flapper—intake	1
9	621532	Valve shim	1
10	625307	Screw—flappers	2
11	625534	Screw—head	4
12	638042	O ring— head plate	1
13	661864	Head	1
14	623615	O ring—flapper	1
15	617252	Bracket—front	1
16	617332	Bracket—rear	1
17	625557	Screw—front bracket	5
18	638041	Gasket—front cover	1
19	609035	Eyelet	3
20	624724	Bumper	3
21	641034	Filter—foam	1
22	641057	Filter—felt	1
23	660763	Filter body	1
24	660676	Filter body cap	1

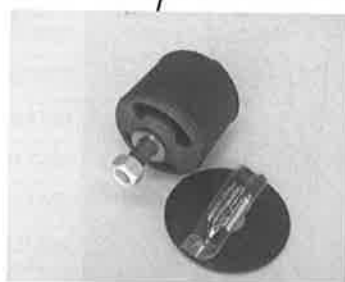
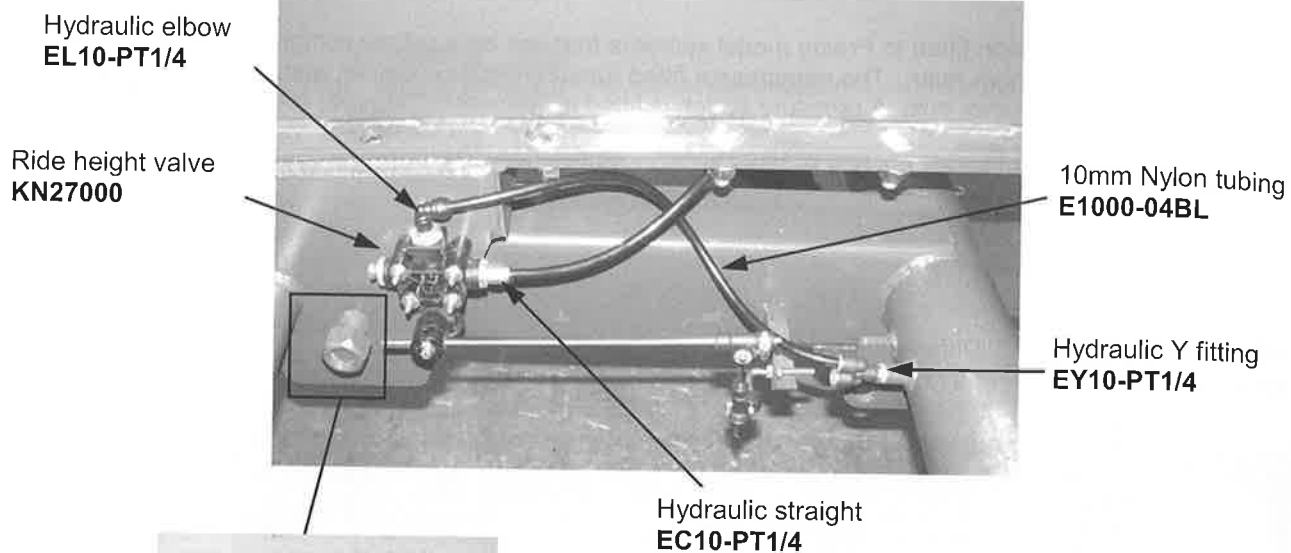


GOLDACRES AIR-BAG SUSPENSION COMPRESSOR BOX

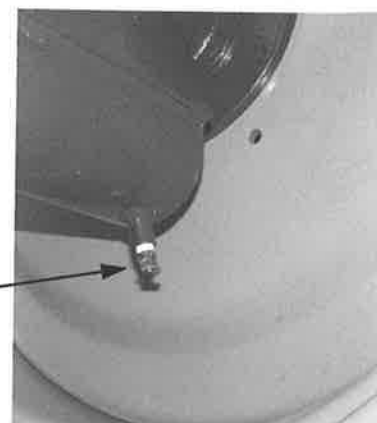
The Air bag suspension fitted to Prairie model sprayers features an auxiliary compressor box mounted near the boom rests. The compressor fitted runs from 12 volt power, and is wired into the foam marker compressor box. A pressure switch is fitted as a standard feature.

The compressor fitted inside the box is listed on the previous page.



GOLDACRES AIR-BAG SUSPENSION PARTS

Axle air tank drain cock
30-1/4



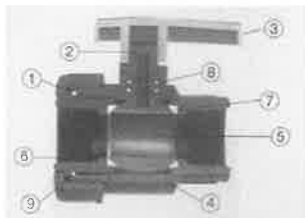
POLY BALL VALVES

precision molded in glass reinforced polypropylene. Teflon seats. Maximum operating pressure 100 psi.

2-WAY BALL VALVES



**SINGLE UNION
POLYPROPYLENE BALL VALVE**
UV100FP 1" Single union poly
valve
UV150FP 1 1/2" Single union
poly valve



ITEM NO.	DESCRIPTION	UV100FP PART NO.	UV150FP PART NO.
1	Union end cap	UV10150	UV15150
2	Union stem	UV10151	UV15151
3	Union handle	UV10153	UV15153
4	Union body	UV10254	UV15254
5	Union ball	UV10255	UV15255
6	Union end plate	UV10256	UV15257
7	Union seat	UV10258	V20258
8	Union stem O ring	UV10163	UV15163
9	Union body O ring	UV10264	UV15264
N/S	1" nozzle pipe	V10161	N/A



POLYPROPYLENE BOLTED BALL VALVE
V-150 1 1/2" Bolted ball valve

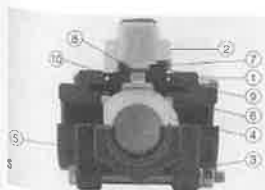


ITEM NO.	DESCRIPTION	PART NO.
1	Stem	V20151A
2	Handle	V20153
3	Valve body	V20254
4	Valve ball	V20255A
5	End plate	
6	Teflon seats	V20258A
7	Upper stem bushing	V20159
8	Thrust washer	V20060
9	Stem O ring Viton	V20163
10	Valve body O ring	V20264

3-WAY BALL VALVES



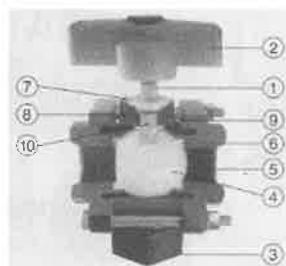
3-WAY POLY BALL VALVE
- Directional flow either right or left.
- Valve cannot be turned off.
V-075-SL 3/4" 3-way poly valve
V-100-SL 1" 3-way poly valve



ITEM NO.	DESCRIPTION	PART NO. V075SL	PART NO. V100SL
1	Stem	V10151A	V10151A
2	T handle	V10353S	V10353S
3	Valve body	V07354S	V10354S
4	Valve ball	V10355S	V10355S
5	End plate	V07357	V10257
6	Ball seats	V10258A	V10258A
7	Upper stem bushing	V10159	V10159
8	Stem O ring	V10163	V10163
9	Valve body O ring	V10264	V10264
10	Thrust washer	V10060	V10060



3-WAY POLY BALL VALVE
- Directional flow either right or left.
- Valve can be turned off to stop flow.
V-100-BL



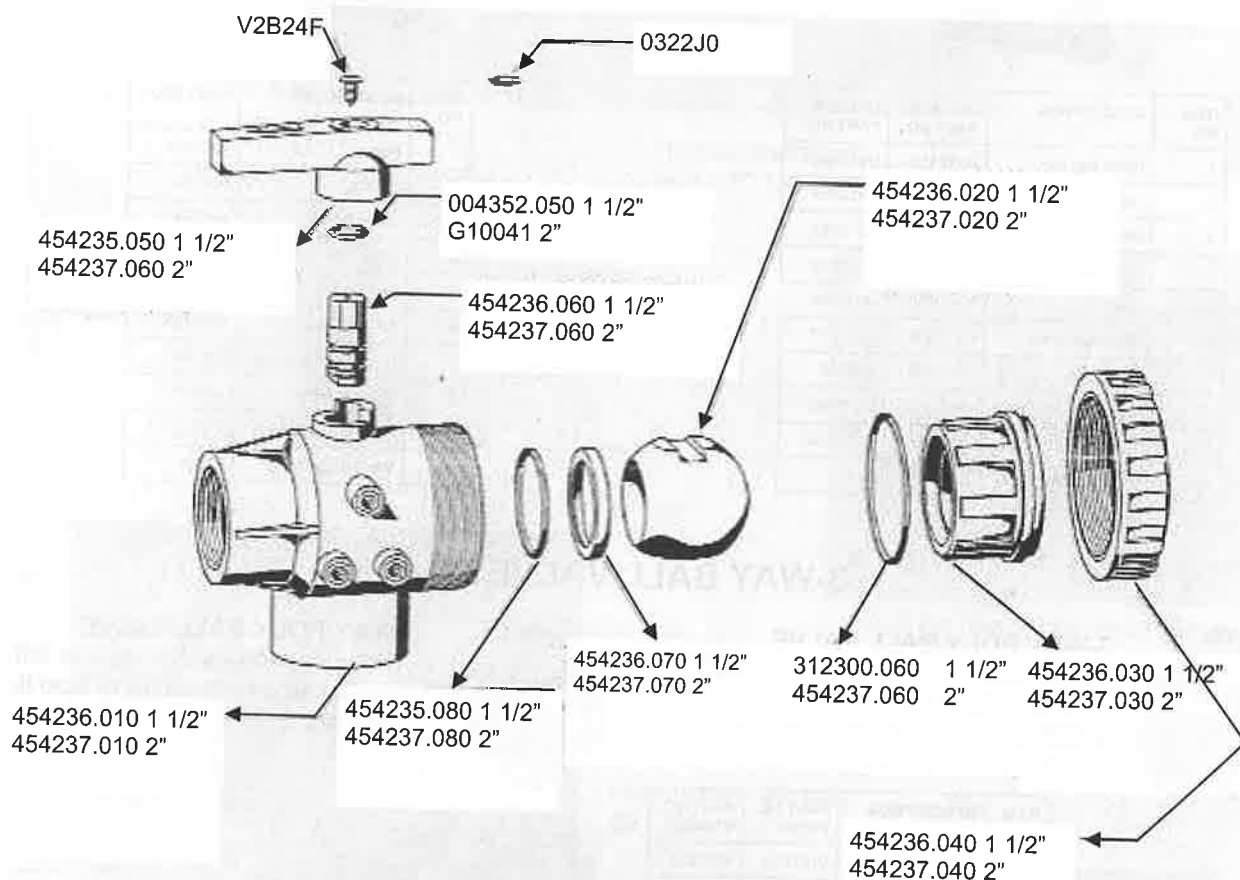
ITEM NO.	DESCRIPTION	PART NO.
1	Stem	V10151A
2	T handle	V10353B
3	Valve body	V10354B
4	Valve ball	V10355B
5	End plate	V10257
6	Ball seats	V10258A
7	Upper stem bushing	V10159
8	Stem O ring Viton	V10163
9	Valve body O ring	V10264
10	Thrust washer	V10060

POLY BALL VALVES

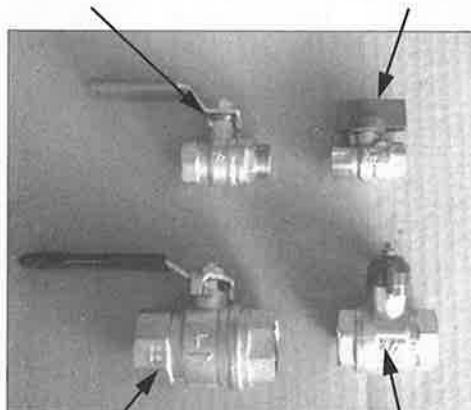
3-WAY BALL VALVES

**3-WAY POLY BALL VALVE**

- Maximum pressure 10 bar.
- Valve can be turned off.

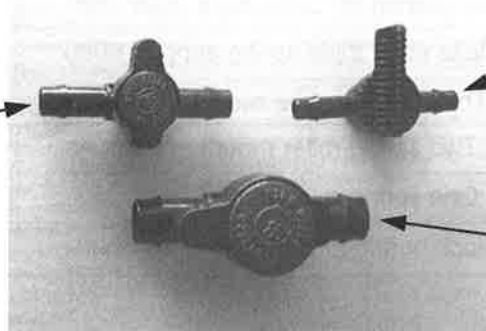
454236 1 1/2" 3-way ball valve**454237** 2" 3-way ball valve

BRASS BALL VALVES

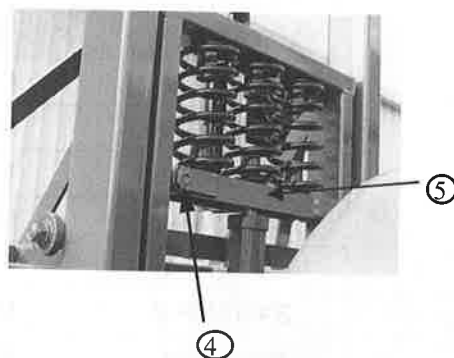
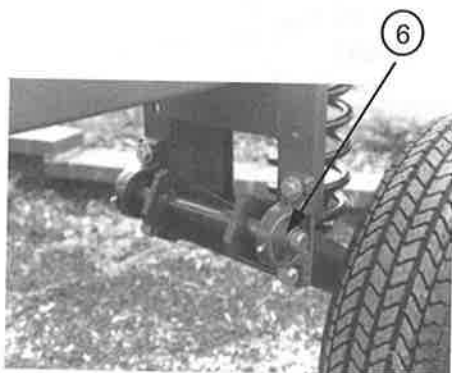
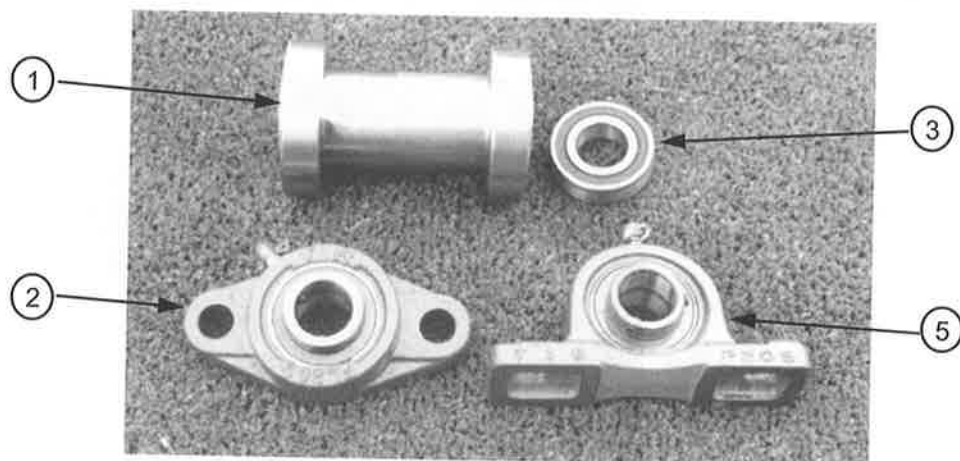
1/2" MF Lever
BLMF00151/4" FF Tee
MBFF00081" FF Lever
BLFF00253/4" FF Tee
20-092

PART NUMBER	PORT TYPE	PORT SIZE	HANDLE TYPE
BV-8FF-B	F F	1/4"	TEE
BV-8MF-B	M F	1/4"	TEE
BV-12-FF-L	F F	1/2"	LEVER
BV-12MF-L	M F	1/2"	LEVER
BV-12FF-B	F F	1/2"	TEE
BV-12MF-B	M F	1/2"	TEE
BV-20FF-L	F F	3/4"	LEVER
BV-20MF-L	M F	3/4"	LEVER
BV-20FF-B	F F	3/4"	TEE
BV-20MF-B	M F	3/4"	TEE
BV-25FF-L	FF	1"	LEVER

IN-LINE TAPS

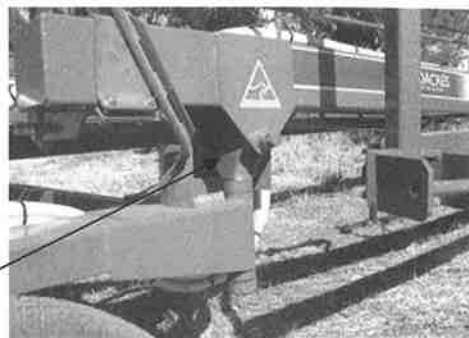
1/2" In line tap
VQA123/8" In line tap
VQA1383/4" In line tap
VQA34

BEARINGS AND ROLLERS



POSITION NO.	DESCRIPTION	PART NO.
1	1" Roller for delta boom 6205	ROLLER1
	1 1/8" Roller for delta boom R18	ROLLER2
	30mm Roller for delta boom 6006	ROLLER3
2	2 hole flange bearing for self leveller cross over booms	UCFL205
3	Sealed bearing for Delta mast roller	6205-2RS
4	Roller for Delta mast triple spring support 6006	LO10M-EX
5	Three spring roller mount	ROLLMT
	Two spring roller mount	ROLLMT2
	One spring roller mount	ROLLMT1
6	1" pillow block bearing for Director Fan Shaft	UCP205-16

GROUND GLIDER TRAILING PARTS



Trailer Boom Pivot Support Assembly TBPSA—40mm
Trailer Boom Pivot Support Assembly TBPSA50—50mm

TRAILER BOOM WHEEL ASSEMBLIES

Trailer boom complete left wheel assembly less hub & wheel
Trailer boom complete left wheel assembly with hub
Trailer boom complete right wheel assembly less hub & wheel
Trailer boom complete right wheel assembly with hub
Trailer boom wheel assembly less swinging arm, spring & shock

TBWA-L
TBWA-LH
TBWA-R
TBWA-RH
TBWALS



Catch Assembly
TBCATCH

Jet Bracket
TB*B

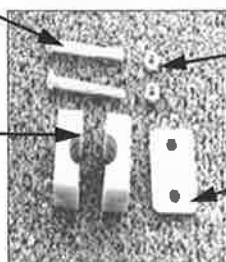


Bolts 50 x 6
M50X6

19mm Jaws
RCS-19J

6mm Nuts
NN6

Top Plate
RC53-PT



Complete clamp assembly **A319C**



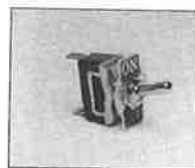
Wet boom clamp
004208

ELECTRICAL FITTINGS



**428-111
10049**

Side Lights
Side Light Lens,
amber



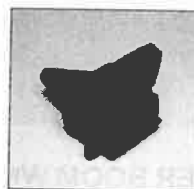
ST25B

Toggle On/Off
Switch
(Master & Boom
Switch)



9003-50B

Indicator/Brake
Tail Light



B48 Connector Flat Twelve
Pole Socket



P304/10

Battery Clamps



B47 Connector Flat Twelve
Pole Plug



YC513B

Fuse (10A) &
Fuse Holder



B51B 7

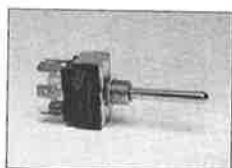
-Pin Trailer Plug
(Foam marker &
Tail lights) Controls



5586 Toggle On/Off/On Switch
(Foam marker control)

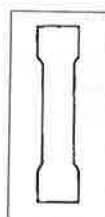


B55B 7-Pin Trailer Socket
(Foam marker) Controls



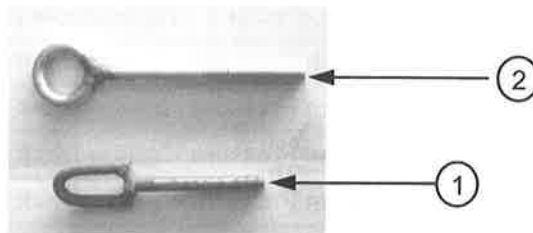
55065-02

Toggle On/Off/On
Momentary Switch
Spring loaded
(Pressure Control)



4601 Joiner to suit 4mm wire

EYE BOLTS

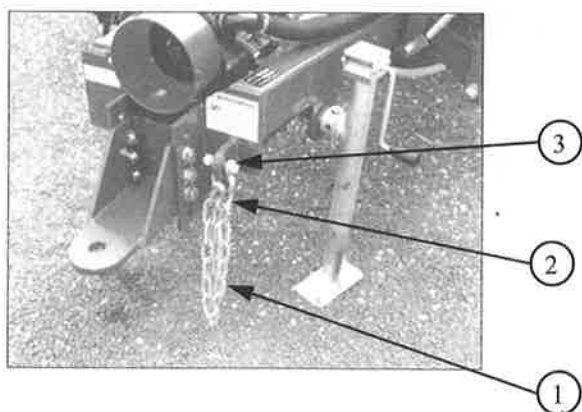


POSITION NO.	DESCRIPTION	SIZE	PART NO.
1	Delta boom yaw spring 24M	12mm x 170mm	EYE150D
2	Trailing boom	16mm x 200mm	EYE200

SAFETY CHAIN AND SHACKLES

Road safety regulations require towed agricultural vehicles to be attached to the towing vehicle with a suitable safety chain.

GoldAcres Prairie tankers and Ground Glider booms are fitted with a 1 metre safety chain. This chain wraps around a suitable member of the towing vehicle and attaches back on itself by means of the 'D' shackle supplied. The chain is constructed from 10 tonne rated alloy links and the 'D' shackles are Grade 'S' alloy shackles developed in accordance with AS2741 - 1992.



POS. NO.	PART NO.	DESCRIPTION
1	46194Y	9mm G80 Alloy Long Link Safety Chain
2	130150516	13mm Gal Alloy Bow Shackle
3	13017041	13mm Gal Alloy Safety Bow Shackle

SIDE WIND PARKING JACK



Side wind parking jack **LT3153**

SIDE WIND EXTENDABLE PARKING JACK (for larger sprayers)



Extendable parking jack **DG7063SFC**
(please state sprayer size when
ordering jack)

GOLDACRES PAINT



400g Pressure pack
Enamel green paint

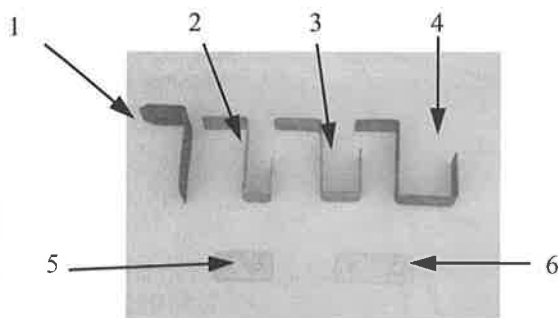
REGRNGG13

Enamel Green Paint
Per Litre

REGRNG777

NOZZLE BRACKETS

Made of stainless steel to suit varying RHS sizes as shown.



TANK BRACKETS

Tank stop bracket



7
(Bracket for left and right side.)

POS. NO.	DESCRIPTION	TO SUIT RHS	PART NO.
1	Plain weld-on		BRKNZ-W
2	Outer wing delta	35 x 35	F70248A
3	Inner wing delta	50 x 50	F70246A
4	Centre section delta	75 x 50	F70256A
	Folding boom wing	50 x 20	BRKNZ3
	Folding boom centre	50 x 75	BRKNZ4
5	Offset Nozzle	40 x 80	BRKNZ-OS
6	Fence Line	105 x 40	BRKNZ-FL
7	Tank stop bracket		BRK-TSL (left) BRK-TSR (right)
	Aluminium outer wing	40 x 40	F70247A
	Aluminium dual boom	40 x 40	F70250A
	Dual boom outer wing	35 x 35	F70249A
	Dual boom	50 x 50	F70251A
	36 Mt Dual boom (holes in line)	50 x 50	F70259A
	36 Mt Dual boom (holes in line)	35 x 35	F70260A

ADJUSTABLE NOZZLE BRACKET

- Suits 40x40 RHS & 50x50 RHS
- Adjustable vertical height
- Accommodates single and dual plumbing
- Suits a variety of nozzle bodies and tips
- Glass filled polypropylene UV stabilised



NOZBK1 Single line
nozzle bracket
to suit 40mm RHS



NOZBK2 Single line
nozzle bracket
to suit 50mm RHS



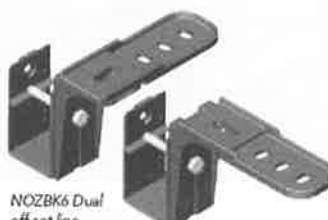
NOZBK3 Dual line
nozzle bracket
to suit 40mm RHS



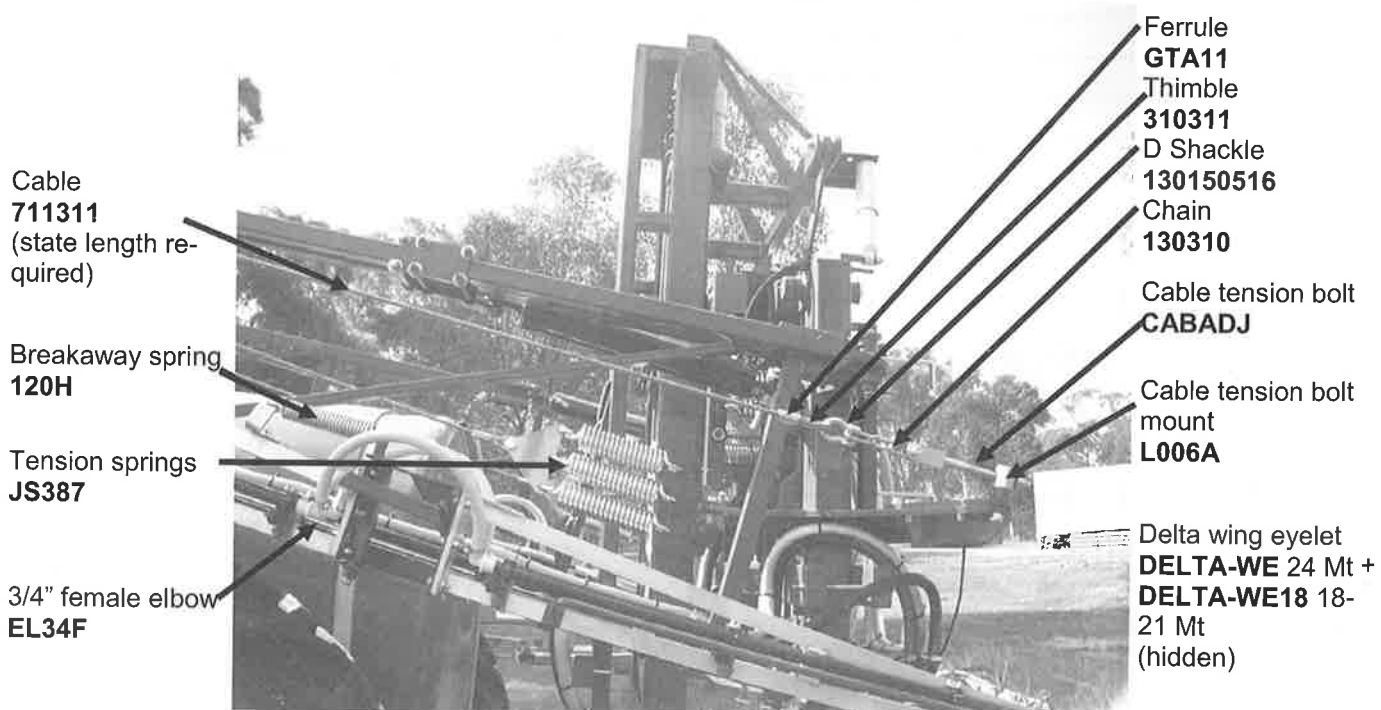
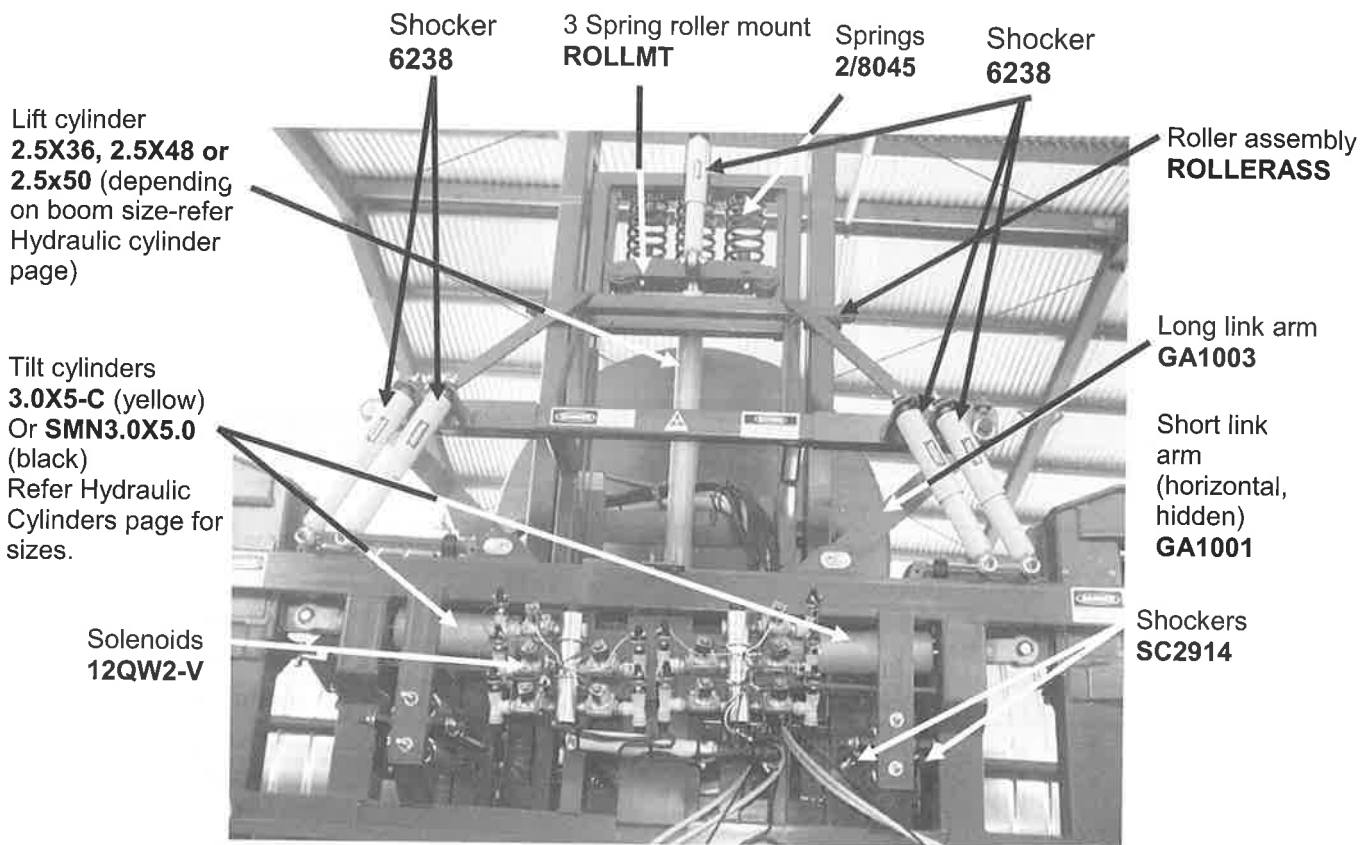
NOZBK4 Dual line
nozzle bracket
to suit 50mm RHS



NOZBK5 Dual
off-set line
nozzle bracket
to suit 40mm RHS



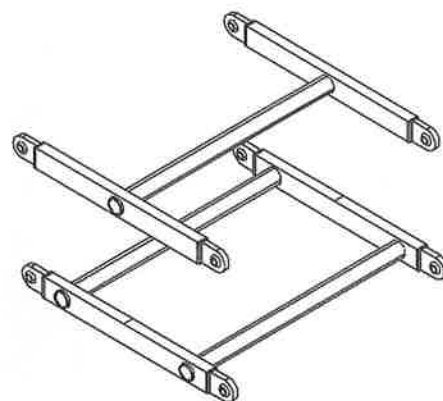
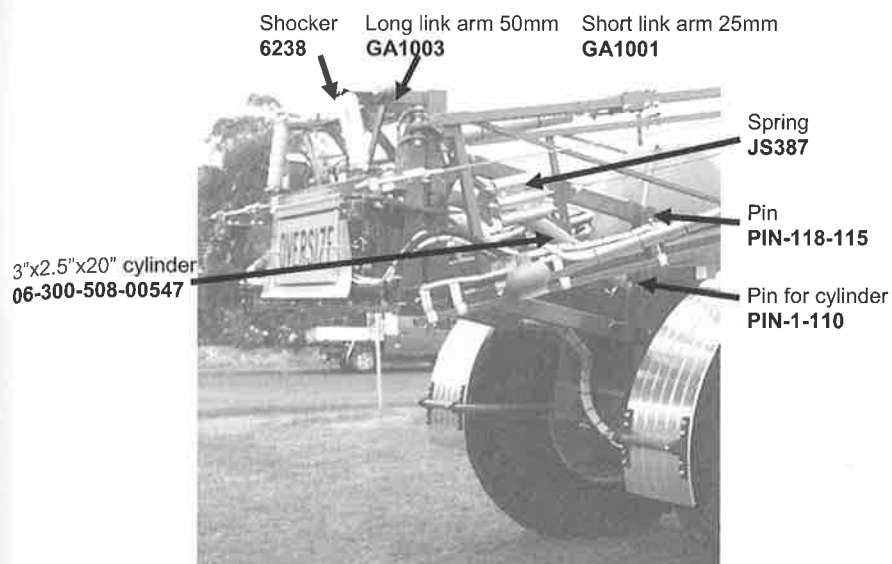
NOZBK6 Dual
off-set line
nozzle bracket
to suit 50mm RHS

DELTA BOOM**Mk III centre section shown**

Nozzle manifold adaptor and end cap (not shown)

Adaptor: 400278 Cap: 402909

PARALIFT BOOMS



Pins to suit weld on ends 1 1/8" **PIN-118-115**
 Cylinder used **03-300-508-00547**
 Displacement 3" x 2.5" x 20" spherical ends
 Pins to suit **PIN-1-110**

GoldAcres have fitted masts to sprayers for many years. The mast is an integral part of the boom suspension system serving three functions.

Boom is carried on springs and dampened with shock absorbers. This is important to isolate the boom from vertical shock.

The mast houses hydraulic cylinder for vertical height adjustment.

The mast connects the boom to the back of the tanker. The GoldAcres mast incorporates a ball bearing roller system to permit vertical movement with minimal wear, similar to a fork lift. Most competitive sprayers have used metal to metal slides with plastic wear strips, resulting in rattling, jamming and wear.

A parallelogram system supports the boom on the end of parallel arms.

Because of the extreme pressure exerted on these arms particularly when turning it is essential that they are very well constructed.

Vertical boom suspension in the GoldAcres parallelogram is achieved with a nitrogen accumulator in the hydraulic cylinders.

ADVANTAGES AND DISADVANTAGES:

A parallelogram system is lower than a mast and we have found it advantageous on our self propelled sprayers to reduce overall height.

A parallelogram suspension positions the boom much further back from the tanker. This can accentuate vertical movement to the boom and effect weight distribution. In order to overcome this some sprayers have a tank section protruding behind the main body of the tank between the parallelogram arms. This only has a minor effect on weight distribution and creates difficulty in tank cleaning.

When a parallelogram boom is being raised and lowered on to its rests in the transport position, the boom slides horizontally as well as vertically. This creates problems regarding nozzles and supply lines fouling the boom rest.

This problem does not occur with a mast lift which is purely vertical.

In summary:

Advantages Masts (Fitted to sprayers up to 5000 Lt):

Vertical suspension better;

Less stress from boom movement;

Boom closer to rear of sprayer;

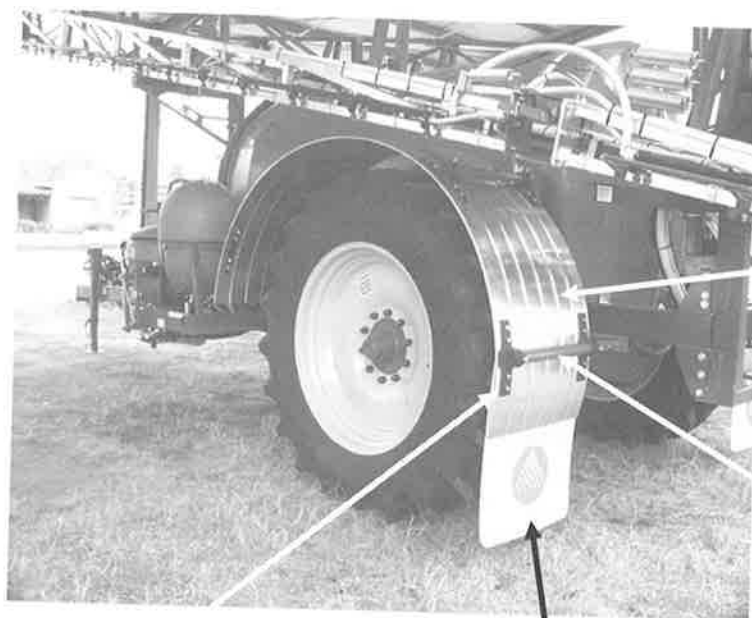
Simpler to raise and lower onto rests.

Advantages Parallelogram (Fitted to self propelled and 6000 Lt sprayers):

Lower total height.

MUDGUARDS & MUDFLAPS

The mudguards fitted to GoldAcres sprayers are made from 3mm rolled aluminium and come in sizes of 500mm wide and 600mm wide. The mudguards come in a kit including brackets and mud flaps. Poly mudguards are also available and come in sizes 400mm, 470mm, 500mm, & 800mm wide.

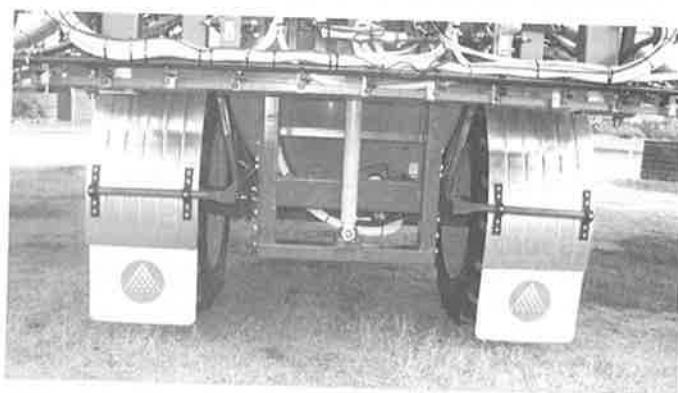


Mudguard inc. frame
MUD-38
(please state 500mm or 600mm wide)

Mudguard frame
MUD-F
(please state size of sprayer & if airbag fitted)

Mudguard brackets
Suit 600mm **BK-P300BK1**
Suit 500mm **BK-P180**

Mudflaps (standard 600mm wide)
GAFLAP



Poly mudguards & brackets

GA-MG400
GA-MG470
GA-MG500
GA-MG800
MUD-38PBRK
MUD-38P

400mm poly guard suit 14.9 x 38 & 16.9 x 34 wheels
470mm poly guard suit 18.4 x 38 & 20.8 x 38 wheels
500mm poly guard suit 24.5 x 32 wheels
800mm poly guard suit 30.5 x 32 wheels
Poly mudguard plated bracket
Complete poly mudguard kit inc brackets. (please state wheel size when ordering).

PRAIRIE TONGUE



The insert is internally tapered at the top and bottom to allow some pin movement.

The standard fitting will take a 32mm drawbar pin. On request an insert for 40mm and 50mm drawbar pins can be supplied.

**Prairie drawbar tongue
(old style, bolt on)**

PRTONG

Insert 32mm

HDBB001MACH

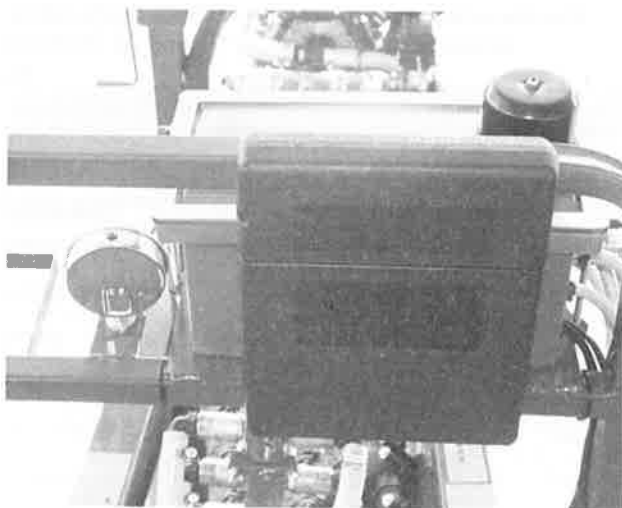
Insert 40mm

HDBB002MACH

Insert 50mm

HDBB003MACH

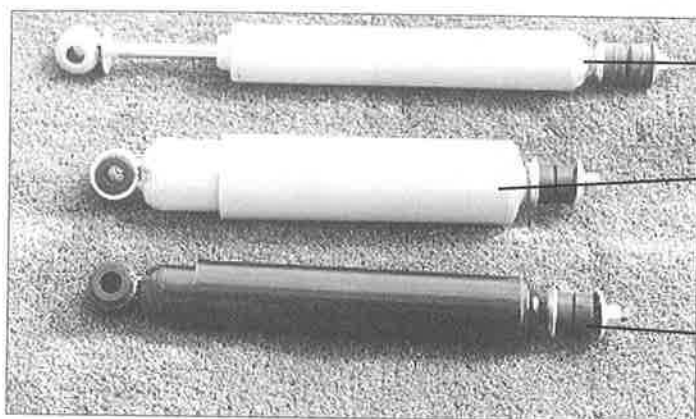
OPERATOR'S MANUAL CASE



Weather proof operators manual case mounted on the sprayer for the operator's convenience.

Operator's manual case 9000-0007

SHOCK ABSORBERS

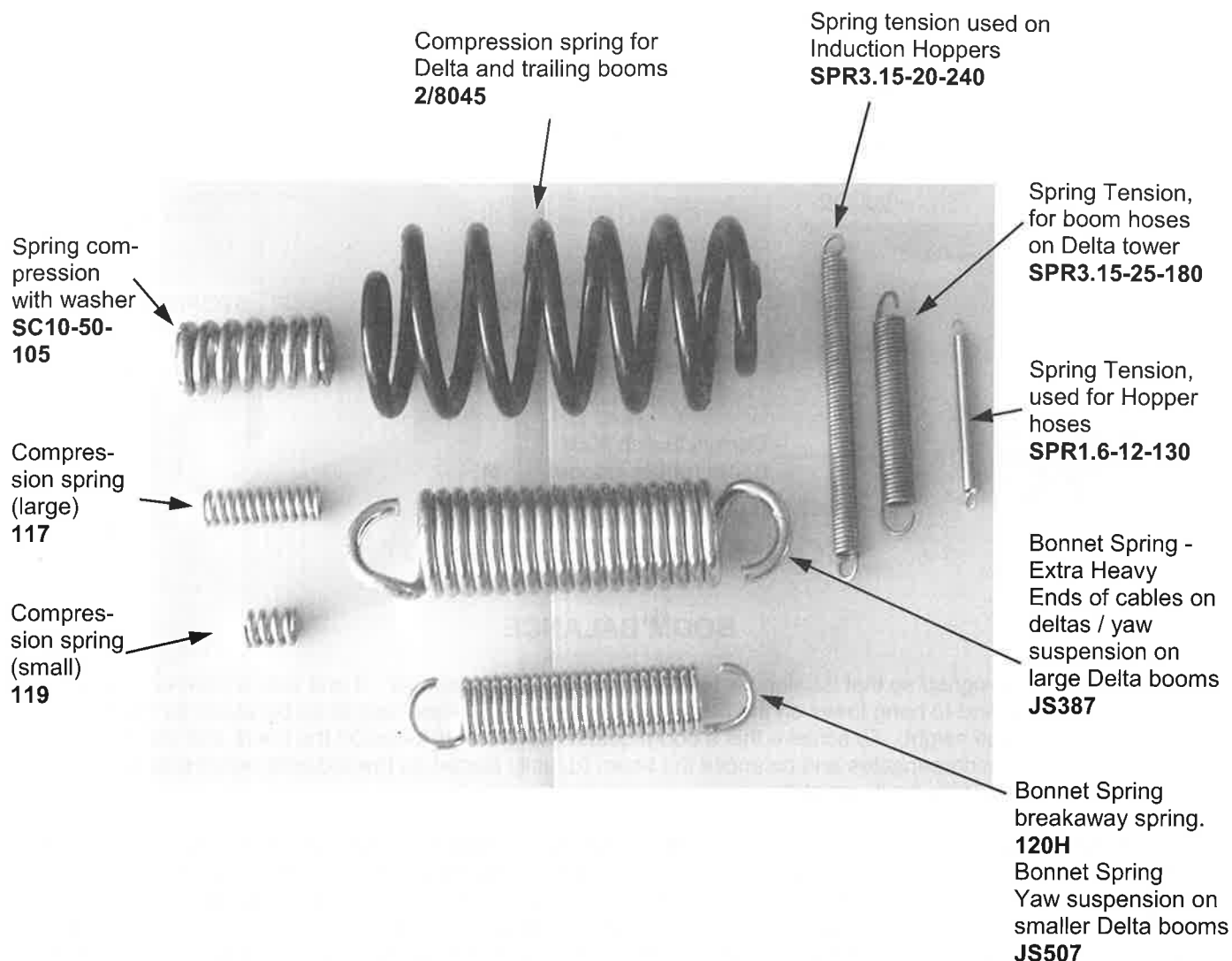


3
2
1



POSITION NO.	PART NO.	DESCRIPTION	TO SUIT
1	15-3137	Double acting gas hydraulic shock absorber	Delta boom roll suspension (20m and below) and all Delta boom pitch suspension and trailing booms
2	6238	Double acting hydraulic shock absorber	Delta boom (24m and above) roll suspension
3	SC2914	Steering Dampener	Delta boom yaw suspension

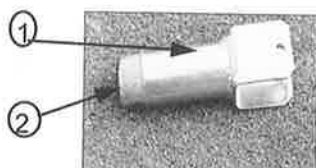
SPRINGS



PART NO.	DESCRIPTION	SIZE	TO SUIT:
2-8045	Spring Compression	300 x 130 x 16	Delta & Trailing Booms
JS387	Bonnet Spring - Extra Heavy	340 x 70 x 12	Large Delta Booms
SC10-50-105	Spring Compression with Washer	110 x 50 x 10	Cam Plate Booms
120H	Bonnet Spring	260 x 40 x 7	Delta & Trailing Booms
JS507	Bonnet Spring	180 x 51.5 x 8	Smaller Delta booms
117	Compression Spring (Large)	85 x 25 x 4	Cam Plate Booms
119	Compression Spring (Small)	35 x 25 x 4.5	Cam Plate Booms
SPR3.15-20-240	Spring Tension	240 x 20 x 3.15	Hopper Bracket
SPR3.15-25-180	Spring Tension	180 x 25 x 3.15	Lightweight Booms
SPR1.6-12-130	Spring Tension	130 x 12 x 1.6	Hopper Hoses Spring

RUBBER STOPPER AND HOLDER

The stopper holder houses the rubber stopper that prevents the outer boom wing from hitting the inner boom wing. Otherwise damage to both the boom and the nozzles will occur. Always make sure that the stopper holder is positioned such that the outer wing will always hit the rubber stopper and not the inner wing. The outer wing may tend to hang lower after awhile and the stopper holder may need to be moved in order to compensate for this. The stopper holder can be unbolted and then bolted to a different part of the inner boom wing.



POSITION NO.	DESCRIPTION	TO SUIT RHS	PART NO.
1	Stopper Holder Pre 2004	35 x 35 50 x 50	STOPHOLD-35 STOPHOLD-50
2	Rubber Stopper		RUBSTOP



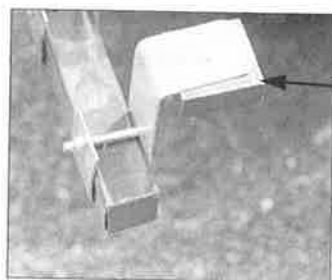
Current March 2004
Boom rubber stopper **M5052**

BOOM COUNTERWEIGHT

BOOM BALANCE

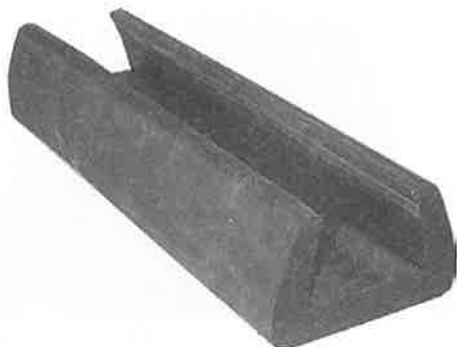
The Delta boom is designed so that it balances level with respect to the sprayer. If one side is heavier than the other, the boom will tend to hang lower on the heavy side. Hence both sides need to be balanced for the boom ends to be of the same height. To achieve this a boom counterweight is included on the boom and placed strategically so that it compensates and balances the boom (usually placed on the opposite boom side to the fenceline jet to compensate for its weight).

If the boom is not balanced (such that the height of the boom ends is different), the counterweight can be moved or more weight added to the counterweight until the boom is balanced. More weight can be added to the counterweight by unbolting the bolt that holds the weight to the adjustable bracket, increasing the weight and then replacing the bolt (or a longer one may be required) so that the weight is securely fastened to its bracket. Adding more weight to the counterweight will cause the side of the boom with the counterweight to hang lower (and the other side to rise higher). The counterweight is mounted on an adjustable bracket which can be unbolted and then bolted to a different part of the boom wing. If the counterweight is moved along the boom wing towards the centre of the boom, it will cause the boom side with the counterweight to rise higher (and the other side to hang lower).

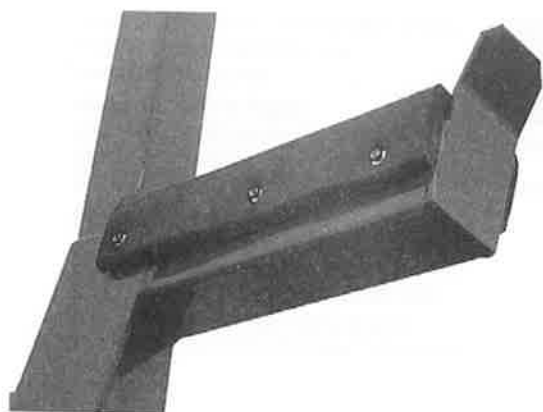


Boom Counter Weight **BOOMWT**

RUBBER BOOM REST



350mm boom rest (To suit 75 RHS)	2022
450mm boom rest	2022/1
550mm boom rest	2022/2



Rubber boom rest fitted to sprayer.

RUBBER BUFFER



Rubber buffer with bolt 30 Mt boom

M190



Rubber bump
stop

BIS003

UTILITY BOX**FEATURES:**

- Extremely durable - constructed from high density polyethylene.
- Water proof seal.
- Carry handles.
- Lockable catches.
- Removable tray insert with webbed carry handles.
- Fits neatly under your tarp.

SIZE:

900 x 550 x 380mm

E936

900 x 550 x 550mm

E1140**E1140****E936****GOLDACRES SERVICE KITS**

The service kit consists of spare parts including:

Pump repair kit	Solenoid repair kits
Foam concentrate	Foam accumulator
Accumulator elbow	Suction filter screen
Pressure filter screens	Filter O rings
Nozzle bodies	Caps & Seals
Boom weight	Nozzles
Nozzle strainers	Hose clamps
Teflon tape	Goldacres parts catalogues

Note: Pump repair kits and solenoid kits can vary with different sized sprayers. Please specify which ones are required in each particular kit.

The kit comes in a durable green and gold nylon 55 Litre box with sufficient room for other items such as safety equipment.

Service Kit to suit RO121 pump	GASK121
Service Kit to suit RO160 pump	GASK160
Service Kit to suit RO210 pump	GASK210
Service Kit to suit RO250 pump	GASK250



SPRAYING ACCESSORIES

TeeJet® Calibration/Adjustment Accessories**Water and Oil Sensitive Paper**

These specially coated papers are used for evaluating spray distributions, swath widths, droplet densities and penetration of spray.

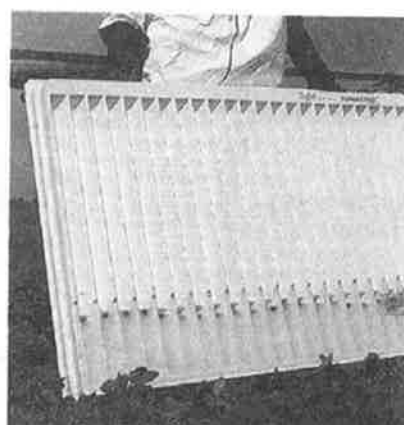
Water Sensitive Paper

20301-1N – 50 cards, 76 mm x 26 mm
 20301-2N – 50 cards, 76 mm x 52 mm
 20301-3N – 25 strips, 500 mm x 26 mm

Oil Sensitive Paper

20302-1 – 50 cards, 76 mm x 52 mm
 20302-2 – 50 cards, 52 mm x 10 mm
 20302-3 – 25 strips, 10 mm x 26 mm

Water and oil sensitive paper sold by Spraying Systems Co. is manufactured by Novartis Corporation.

**TeeJet Tip Tester 37670****McKenzie Tip Tester 429000****TeeJet Pattern Check 37685**

TeeJet Tip Cleaning Brush
 CP20016-NY

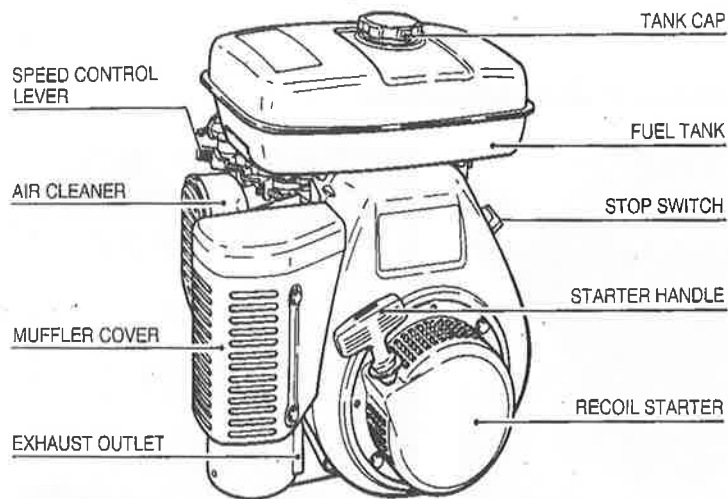


TeeJet
Wind Meter
 38560

TeeJet
Calibration
Container
 CP24034-PP



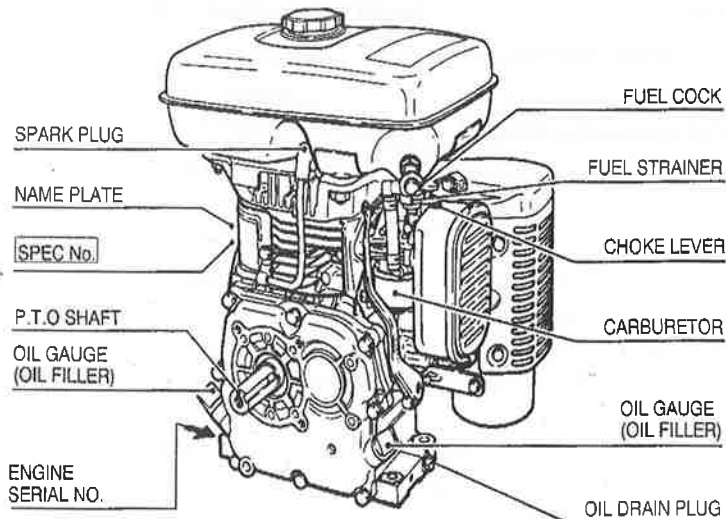
ROBIN ENGINES - HORIZONTAL SHAFT



EY15DU 3.5 HP
EY20DU 5 HP
EY28DR 7.5 HP
EY28DRS 7.5 HP ELECTRIC START

2273261007
2343260407

Robin EY20 Air Filter
 Robin EY28 Air Filter



HONDA ENGINES

GX120K1-QXU	4 HP suit Kappa 30 (3/4" shaft)
GX160K1-QXU	5.5 HP suit RO70 & RO106 (3/4" shaft)
GX200-HXU	6.5 HP suit RO121 (3/4" shaft 6:1 reduction gearbox)
GX270-HX8	9 HP suit RO160 & RO210 (1" shaft 6:1 reduction gearbox)
GX270-HEA8	9 HP suit RO160 & RO210 (6:1 reduction gearbox, electric start)

GOLDACRES STICKERS

GA001

Left hand side near jack stand,
placed between the 'U' bolts



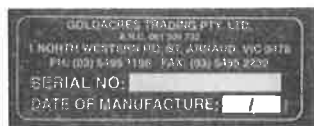
GA013

On rear of centre section



GA003

Left hand side, top of chassis.



GA032

On air filter at foam compressor
box, and air bag compressor box if
fitted.

CLEAN AIR FILTER DAILY

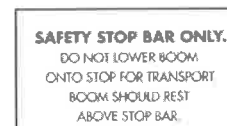
GA004

Right hand side, top of chassis
rail. **PRAIRIE ONLY**



GA039

On boom stopper bar



GA064

Right hand side, top of chassis
rail. **ROWCROP AND
DIRECTOR ONLY**



GA040

On wing rest



GA005

Top of pump cover.



GA041

On wing rest



GA006

On both wheels



GA042

Near drain tap on chassis



GA007

On 'T' bar on rear of tower,
only if hydraulic boom is fitted.



GA045

On 'H' frame and 'T' bar on lift.



GA008

On or near pump.



GA047

On or near pump



GA009

On side of hopper.



GA058

On 10 litre flush tank



GA011

On right side top of chassis
near front.



GA060

Right side top of chassis near
air filters



GOLDACRES STICKERS

GA059

Special - Left top of chassis near suction filter.

Prairie - Inside floor of locker.

**GA061**

Special - On front of tank, high enough to be visible when standing on the platform.

Prairie - Inside door of locker

**GA043**

Next to foam tank on bottle bracket.

REMOVE LID WHEN
BOTTOM-FILLING FOAM TANK

GA048

Near chemical induction hopper, on the hopper bracket

FLUSH CHEMICALS
FROM EQUIPMENT
IMMEDIATELY
AFTER USE

On lift near mast rollers, both sides, if fitted.



On chassis rail, above the top step, both sides.



On tank rim facing upwards so that the sticker is against the tank lid.

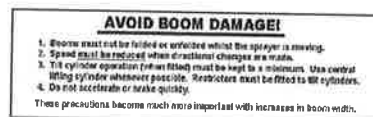


On mast near bottom of lift cylinder, if hydraulic lift is fitted.

CAUTION!
BEFORE WORKING UNDER THE BOOM
PLACE SUPPORT CHOCKS UNDER THE
BOOM FOR ADDED SAFETY.
ACCESS THE TAP ON THE BOTTOM OF

GA086

Inside door of the locker



TROUBLESHOOTING

Useful formulas for calculating application rates.

Glossary:

L/min =	Litres per minute.
L/ha =	Litres per hectare.
Km/h =	Kilometres per hour.
W =	- Nozzle spacing (in cms) for broadcast spraying. - Spray width (in cms) for single nozzles, band spraying or boomless spraying. - Row spacing (in cms) divided by the number of nozzles per row for directed spraying.
M =	Metres of distance

$$\text{L/min (per nozzle)} = \frac{\text{L/ha} \times \text{Km/h} \times \text{W}}{60,000}$$

$$\text{L/ha} = \frac{60,000 \times \text{L/min (per nozzle)}}{\text{Km/h} \times \text{W}}$$

$$\text{KPH} = \frac{\text{M} \times 3.6}{\text{Time (seconds)}}$$

TROUBLESHOOTING

PLUMBING SYSTEM:

"MY SOLENOIDS FAIL TO OPEN"

- There may be a power supply failure –
- Solenoids need at least 12 volts in order to operate satisfactorily.
- Check all wiring and connections to ensure that there is 12 volts at the solenoids.
- The system pressure may be greater than 110 psi.
- Reduce the system pressure.

"MY SOLENOIDS FAIL TO CLOSE"

- Diaphragm damaged – replace diaphragm with a new seal kit.
- Foreign object blocking plunger from seating – clean inside solenoid.

"MY BALL VALVES ARE CRACKED"

- Water frozen (best if ball valves are left open when there is any chance of frost).

DIAPHRAGM PUMPS:

"MY PRESSURE AND FLOW RATE ARE TOO LOW"

- Check pressure side for excessive bypass:

Base model plumbing:

- Verify console calibration settings.
- Look in tank to see if there is much bypass coming back into the tank from either the pressure relief valve at the front of the tank, or the control valve at the rear of the tank.
- Close the ball valve labeled "bypass line" and see if the pressure on the pump gauge rises. If it does then there is something wrong with the control valve.
- Check the pressure relief valve setting.
- Restrict the hose coming off the relief valve going back to the tank (i.e. with multi grips) and see if pressure on gauge rises.
- Measure the flow per minute out of the nozzles and check with nozzle chart pressure for the corresponding flow.

2TS model plumbing:

- Verify console calibration settings.
- Look in tank to see if there is much bypass coming back into the tank from either the pressure relief valve at the front of the tank, or the bypass line at the rear of the tank.
- Check that the fast close valve is rotating to full bypass when the boom valves are switched off. If the valve is not rotating, then the problem is with the valve or associated wiring.

Check suction side for restriction:

- Clean suction filter strainer.
- Check suction line and tank sump for blockages.
- Check suction line for air leaks. (i.e. tighten nuts, hose clamps)

TROUBLESHOOTING

Check Pump:

- Check pump speed.
- Check oil for colour change to see if diaphragms are damaged. Diaphragms will need to be replaced if oil is milky.

Check valves in pump.

"MY PRESSURE AND FLOW RATE ARE TOO HIGH"

- Verify console calibration settings.
- Check restriction in bypass line. (make sure the ball valve in front of the control valve is open)
- Check pump speed is not too fast.

"THE PRESSURE ON MY GAUGE IS HIGHER THAN THE NOZZLE FLOW INDICATES"

- Check and clean all pressure and nozzle filters.
- There is always a pressure loss when flow goes through hose and components (such as filters, solenoids, etc). The pressure at the nozzle tip is what the nozzle chart pressure is referring to. The pressure on the gauge is the pressure at the nozzle tip plus the pressure that is lost between the pressure gauge and the nozzle. The pressure at the nozzle tip can be measured by measuring in one minute the amount of flow coming out of the nozzle and checking this with the nozzle flow chart. The pressure loss in the system increases as the flow rates increase.

The diaphragms within the solenoids may have swollen causing restrictions, and thus may require replacement solenoid kits.

"MY FLOW RATE IS CORRECT BUT MY PRESSURE IS TOO LOW"

Check nozzle chart for correct nozzle size.

"MY FLOW RATE IS CORRECT BUT MY PRESSURE IS TOO HIGH"

- Check nozzle chart for correct nozzle size.
- Check and clean all pressure and nozzle filters.

"MY PRESSURE IS CORRECT BUT MY FLOW RATE IS TOO LOW"

- Check nozzle chart for correct nozzle size.
- Check and clean all pressure and nozzle filters.

"MY PRESSURE IS FLUCTUATING"

- Check suction side for air leaks. (pump sucking air)
- Check the pump speed is between 400 and 540 RPM.
- Check valves in pump.

TROUBLESHOOTING

"MY PRESSURE IS PULSATING"

- Reset the air damper chamber pressure.
- Check the air damper chamber diaphragm.
- Check pump speed. (Should be between 400 and 540 RPM).
- Check suction side for air leaks. (pump sucking air)

"MY TANK IS NOT EMPTYING COMPLETELY"

- Reduce pump speed to minimize foaming in tank and prevent a vortex from occurring.

"MY PUMP OIL IS CHANGING COLOUR, IT'S BECOMING MILKY"

STOP SPRAYING IMMEDIATELY

- Diaphragms damaged and all will need to be replaced.

"MY PUMP OIL IS CHANGING COLOUR, IT'S BECOMING BLACK OR DARK GREY"

STOP SPRAYING IMMEDIATELY

- The Pump is overheating:
- Check the pump speed. (must not be greater than 540 RPM)
- Check PTO shaft lubrication.

"MY PUMP IS NOISY"

- Check pump oil level.
- Reset the air damper chamber pressure.
- Check whether the PTO shaft is suitably lubricated.
- Check suction line for air leaks. (pump sucking air)
- Check suction line for restrictions.
- Check pump valves.
- Check pump bearings.

"MY PUMP HOUSING OR MOUNTINGS ARE CRACKED"

- Check PTO shaft length and lubrication.
- Check for ice in the pump, particularly if the sprayer has been parked in an environment where it may have been subjected to sub-zero temperatures or frosts.

"MY UNIVERSAL JOINTS ARE DAMAGED"

- The PTO shaft is too long.
- The PTO shaft is not adequately lubricated.

"MY PTO SHAFT IS BENT OR IS VIBRATING EXCESSIVELY"

- The PTO shaft is too short.

TROUBLESHOOTING

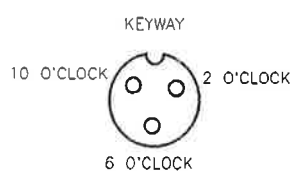
FLOWMETERS AND RAVEN

"MY APPLICATION RATE IS INACCURATE, UNSTABLE OR ZERO"

1. Check the application rate by performing a jug test over a representative number of jets across the boom width.
2. Check that the console is correctly programmed by ensuring that the correct values have been entered. Record these numbers in the console.
3. When spraying, press speed and see if the speed is unstable or zero.
4. When spraying, press volume and see if the volume is erratic or not changing.
5. When spraying, place flow control switch into manual and use the Inc/Dec switch to see if the rate (and pressure) can be adjusted.
6. Check the length of the fill hose inside the tank. Some chemicals can cause this hose to increase in length, causing it to foul on the suction outlet in the sump. Shorten the hose so that it sits 150mm clear of the bottom of the tank.

"MY SPEED SENSOR DISPLAY IS INACCURATE, UNSTABLE OR ZERO"

1. Check Speed Cal No.
2. Clean and check all pins and sockets on speed sensor cable connectors.
3. Make sure magnets are on wheel (red followed by black) and that the magnets pass by the centre of the sensor and have between 6 to 20mm clearance.
4. Perform the following procedure to test speed sensor cables at the back of the console and at the cable breakaway (at front of sprayer). This test will determine if one of the cable sections is faulty or if the speed sensor itself is at fault.

"I NEED TO TEST MY SPEED SENSOR CABLES"

- 2 o'clock socket is power
- 6 o'clock socket is signal
- 10 o'clock socket is ground

- 10 o'clock to 6 o'clock (+5 VDC)
- 10 o'clock to 2 o'clock (+5 VDC)

Voltage Readings

1. Change Speed Cal Number to 1000 in [SPEED CAL] key
2. Press [DISTANCE] key
3. With a jumper wire (or paper clip or screwdriver), short between 6 o'clock and 10 o'clock sockets with a "short – no short" motion. Each time contact is made, the [DISTANCE] total should increment up 1 or more counts
4. If distance does not count up, perform test at the next connector closer to the console. If this next test works, the previous section of cable must be faulty and should be replaced
5. Perform above voltage checks
6. Change Speed Cal Number back to previous number.

Note: Speed sensor is not repairable and will need to be replaced if faulty.

"MY SPEED SENSOR HAS FAILED"

NOTE: If a relatively constant ground speed is indicated on the console, then the problem is with the sensor, magnets, or cable, but not the console.

If the speed sensor fails, the following procedures should be adhered to:

TROUBLESHOOTING

- Enter a self-test speed that is the same as the ground speed that you can manually maintain. The console should then give an application rate for that simulated ground speed.

OR

If a reasonably constant ground speed can not be maintained, or the console unable to perform a self-test, then:

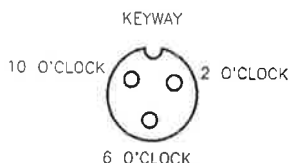
- Adjust the spraying pressure by switching the flow control into manual and using the Inc-Dec switch to adjust to the desired pressure as shown by the pressure gauge on the sprayer.
- Drive the sprayer at the constant speed (as measured by the tractor) in order to apply the required application volume as determined by the nozzle selection chart.

The sprayer should then be operated so as to empty the tank. Once the sprayer is empty of chemical, partially fill the tank with fresh water (no chemical) so that test can be performed in order to correct the problem. Repair or replace the speed sensor as soon as possible.

"MY VOLUME DISPLAY IS INACCURATE, UNSTABLE, ZERO OR NOT CHANGING"

1. Check Meter Cal No.
2. Clean and check all pins and sockets on Flowmeter sensor cable connectors.
3. Make sure the Flowmeter is pointing in the correct direction for flow.
4. Perform the following procedure to test Flowmeter sensor cables at the cable breakaway (at front of sprayer) and at the Flowmeter. This test will determine if one of the cable sections is faulty or if the Flowmeter itself is at fault.

"I NEED TO TEST MY FLOWMETER CABLES"



2 o'clock socket is ground
6 o'clock socket is signal
10 o'clock socket is power

2 o'clock to 6 o'clock (+5 VDC)
2 o'clock to 10 o'clock (+5 VDC)

Voltage Readings

1. Change Meter Cal Number to 1 in [METER CAL] key
2. Press [TOTAL VOLUME] key and place boom switches ON
3. With a jumper wire (or paper clip or screwdriver), short between 2 o'clock and 6 o'clock sockets with a "short – no short" motion. Each time contact is made, the [TOTAL VOLUME] total should increment up 1 or more counts
4. If total volume does not count up, perform test at the next connector closer to the console. If this next test works, the previous section of cable must be faulty and should be replaced
5. Perform above voltage checks
6. Change Meter Cal Number back to previous number.

If the Flowmeter appears to be not working, take the Flowmeter apart.

- The Flowmeter turbine and turbine hub should be cleaned of all foreign material (such as metal filings and wettable powders which may have hardened in the plastic and metal parts).
- Check for worn turbine blades, scoring on the turbine shaft and damaged bearings so that the turbine spins freely when assembled correctly.
- Check the general condition of the Flowmeter when inserting it back onto the sprayer.
- If there is still no signal from the Flowmeter, the Flowmeter may need to be replaced.

TROUBLESHOOTING

"MY FLOWMETER HAS FAILED"

If the Flowmeter fails to give accurate readings, the following procedures should occur:

- Adjust the spraying pressure by putting the flow control switch into manual and using the Inc-Dec switch to adjust to the desired pressure as shown by the pressure gauge on the sprayer.
- Drive the sprayer at a constant speed (as measured by the tractor) in order to apply the required application volume as determined by the nozzle selection chart.

The sprayer should then be operated to empty the tank. Once the sprayer is empty of chemical, partially fill the tank with fresh water (no chemical) so that test can be performed in order to correct the problem. Repair or replace the Flowmeter as soon as possible.

"I CANNOT ALTER MY APPLICATION RATE OR PRESSURE"

1. Perform a self-test and put the flow control switch into manual, turn a boom section on and use the Inc/Dec switch to see if the rate can be adjusted (if the rate cannot be altered, control valve is not altering the amount of flow back to the tank).
2. Check the green and yellow wiring to the control valve and the connectors.
3. **Make sure the yellow wire is swapped over to the green wire and the green wire is swapped over to the yellow wire near the control valve for base model sprayers.**
4. Check that there is 12 volts reaching the control valve (check at the console side of the breakaway connector and where the wires are swapped over). To do this, have the flow control switch in manual and the Inc/Dec going up and down. See if the motor is going and that the butterfly is going around. The hose and hose barb elbow fitting will have to be removed in order to do this.
5. **For sprayers fitted with 2TS plumbing, there is an additional positive (red) and negative (black) wire running to the valve. These additional wires should display constant twelve volts. The yellow and green wires running to the valve must remain in the yellow and green sequence (i.e. not swapped) with 5 volts power being displayed when the inc/dec switch is operated with the rate switch placed into the manual position.**

"MY CONTROL VALVE HAS FAILED"

If the control valve does not respond to the console to alter the amount of flow going back to the tank, then:

For sprayers fitted with base model plumbing:

- Close the Bypass Line ball valve in front of the control valve.
- Adjust the ball valve in front of the electric control valve until the desired spraying pressure is shown by the pressure gauge on the sprayer. If the desired spraying pressure is not able to be achieved with the ball valve, adjust the pressure relief valve setting to achieve the desired pressure.
- Drive the sprayer at a constant speed (as measured by the tractor) in order to apply the required application volume as determined by the nozzle selection chart.

For sprayers fitted with 2TS plumbing:

- Remove the motor from the 3 way tap (exposing the drive shaft) and manually turn the tap to achieve the desired spraying pressure.

The sprayer should then be operated to empty the tank. Once the sprayer is empty of chemical, partially fill the tank with fresh water (no chemical) so that test can be performed in order to correct the problem. Repair or replace the control valve as soon as possible.

TROUBLESHOOTING

"I NEED TO TEST MY CONSOLE"

If there is a problem with the console, the following power check procedure should be performed. Otherwise the console may need servicing by the appropriate GoldAcres representative.

To check the power to the console:

1. Check that the red wire is connected to the positive and the white wire to the negative terminal of a 12 volt DC supply.
2. Make sure the battery connections are clean.
3. Check to ensure the fuse at the back of the console is not blown.
4. With a multi-meter, check the voltage potential across pins 1 and 16 on the 16-pin plug going into the console (should be at least 12 volts).

"MY CONSOLE HAS FAILED"

If a relatively constant ground speed is indicated on the console, then the problem is with the sensor, magnets, or cable, but not the console.

If the Raven console fails so that it is not able to control the solenoids, and control valve, the following procedures should be adhered to:

1. Disconnect console from console cable.
2. Disconnect console cable from power source (i.e. battery).
3. Remove the plunger and spring from the solenoids. (This will open the solenoids)
4. To start and stop spraying through the nozzles, start and stop the pump. **(Care should be taken because there is no agitation while the nozzles are not spraying)**

For base model sprayers:

- Adjust the manual pressure relief valve to alter the spraying pressure to the desired pressure as shown by the pressure gauge on the sprayer. If the desired spraying pressure is not able to be achieved, alter the pressure relief valve setting so as to achieve the desired pressure (i.e. alter the adjusting stem).

For sprayers fitted with 2TS:

- Remove electric motor from three way fast close valve, and manually rotate valve until desired spraying pressure is achieved.
- Drive the sprayer at a constant speed (as measured by the tractor) in order to apply the required application volume as determined by the nozzle selection chart.

The sprayer should then be able to be operated in order to empty the tank. Once the sprayer is empty of chemical, partially fill the tank with fresh water (no chemical) so that testing can be performed in order to correct the problem. Repair or replace the console as soon as possible.

TROUBLESHOOTING

CHEMICAL PROBE & TRANSCAL

"MY TRANSCAL IS NOT WORKING OR IS WORKING TOO SLOWLY."

To successfully draw a viscous chemical from a container, measure the liquid, and transfer to sprayer height is a task which requires all equipment, hoses and fittings to be in perfectly air tight condition. All equipment must be kept clean, free of chemical and dirt, or seals will not be efficient and the system will not function.

There are 2 main areas to be checked if a Transcal system is not working or is operating too slowly.

- The water speed flowing through the orange venturi is critical to its ability to create a vacuum. Normally a pressure in the ½ " line to the venturi of 100 PSI (7 bar) will provide sufficient flow velocity to function properly, but if the supply line is kinked or blocked the flow (velocity) can be restricted even though the pressure appears to correct. It must transfer at least 20 litres of water from ground level in 60 seconds or adjustments are required. This figure is tested by GoldAcres prior to despatch.
- Air leaks in the system at any suction point will cause system failures.

To isolate the area of possible air leak:

Step 1.

First check the operation of the chemical probe only. That is by-pass the Transcal tank. If this will transfer water at a minimum of 30lt/min then this part of the system is okay. If not check for air leaks at:

- Cam lever fitting at the probe.
- Hose fittings.
- Venturi – the venturi can suck air (less vacuum) where the black drop-pipe connects to the orange venturi.
- The venturi may also suck air where the 'lay flat' hose joins the bottom of the black PVC drop pipe.

Step 2.

Check Transcal tank. If the probe is working successfully but the Transcal tank system won't work then the air leak areas to check are:

- The Tank lid. This lid may tighten against the metal bracket above the tank and not the tank itself. Also the top of the tank needs to be clean and smooth for the lid to seal. Also check the lid for cracks and condition of the seal.
- Fitting at the base of the Transcal tank.
- Any hoses and connectors.



TROUBLESHOOTING

Step 3.

If probe works correctly and Transcal tank works correctly when using suction probe but envirodrum will not operate, check for air leaks in envirodrum fitting (this must be thoroughly cleaned after each use) and check interior pipes in the envirodrum for air leaks or damage.

IN SUMMARY:

First - Check the flow of water into venturi.

Then - Step 1. Check the probe only.
Step 2. Check the probe and Transcal
Step 3. Check Transcal and envirodrum section.

- Tests must be done with water because the speed of the transfer is affected by the increased viscosity of the chemical.
- The old foot valve at the bottom of the drop pipe caused some problems, and this has been replaced by 'lay flat' tube on all new sprayers. GoldAcres can supply a service kit to retro-fit old sprayers to the new 'lay flat' tube.
- When fitting layflat do not distort the drop pipe when tightening clamp or an air leak can develop. It will not be possible to fit the backnut to the venturi when layflat is fitted.
Do not remove drop pipe from venturi except for resealing.

"MY SIGHT TUBE IS NOT GIVING A TRUE INDICATION OF LIQUID LEVEL."

Ensure that the tap on the probe or Envirodrum coupler is turned off before using the sight tube for evaluating liquid level.

CHEMICAL INDUCTION HOPPER

"I NEED TO CONDUCT A PERFORMANCE TEST ON MY INDUCTION HOPPER"

With a 121 litres per minute pump running at approximately 400 kPa, the induction hopper should transfer water at a minimum rate of 50 litres per minute.

If the induction hopper is not performing satisfactorily, check:

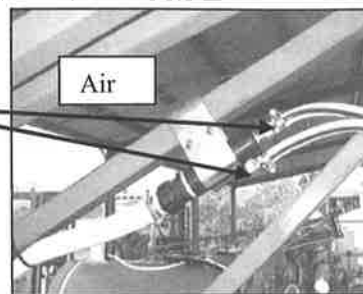
- The pressure as displayed on the sprayer pressure gauge should be at least 400 kPa.
- Air leaks to make sure fittings are screwed tightly and hoses are in good condition and that cam lever fittings have gaskets in place.

TROUBLESHOOTING

FOAM MARKER

"I HAVE INSUFFICIENT OR POOR QUALITY FOAM ON ONLY ONE SIDE"

- Compare the flow coming out both the air and liquid lines for both sides to determine whether the solenoids are working properly.
- Swap the foam generators over to see if the poor foam is dependent on the foam generator or not.
- If air is coming out of both sides, clean the air diverter solenoid.



"I HAVE INSUFFICIENT OR POOR QUALITY FOAM"

CONDUCT A PERFORMANCE TEST FOR AN EXACTA FOAM MARKER:

You should fill a 20 litre bucket up with foam in approximately 1 minute at a mixing rate of 1 to 50. You will need to add 200 ml of GoldAcres concentrate to 10 litres of clean, soft water.

If the **Standard Foam Marker** is not performing to near this rate or the foam is of a poor quality check the following possible causes:

- Incorrect concentrate rate – drain and add new mix at correct rate (use clean, soft water and GoldAcres concentrate).
- Dirty or hard water used – drain and add new mix at correct rate (use clean, soft water and GoldAcres concentrate).
- Stale foam concentrate – drain and add new mix at correct rate (use clean, soft water and GoldAcres concentrate).
- Foam mixture not sufficiently mixed – stir mixture in tank or replace mixture with pre-stirred mixture.
- Insufficient power to compressor/diverter unit – check power supply (should be minimum 12 volts) to solenoids and all connections.
- Compressor failing to produce sufficient air – check and/or replace compressor flapper valves and clean compressor filter.
- Air or water hose blocked – check all hoses or kinks and blockages.

For **Exacta Foam Markers**:

- Filter under foam tank blocked – clean filter screen.
- Solenoids not opening or closing – check diaphragm and replace if necessary.
- Foam generator not performing – check and clean filter screen in foam generator.

For **Direct Injection Foam Markers**:

- Check that the needle valve settings are correct. Use the settings on Page 6.
- The tank contents may be contaminated. (either concentrate in the fresh water or fresh water in the concentrate tank) – flush and replace contents and check the one-way valves.

TROUBLESHOOTING

NOZZLES

"I HAVE A STREAKY PATTERN COMING OUT OF A NOZZLE"

Check for blockages by removing the nozzle and cleaning with compressed air.

WARNING:

DO NOT CLEAN THE NOZZLE BY BLOWING BY MOUTH!

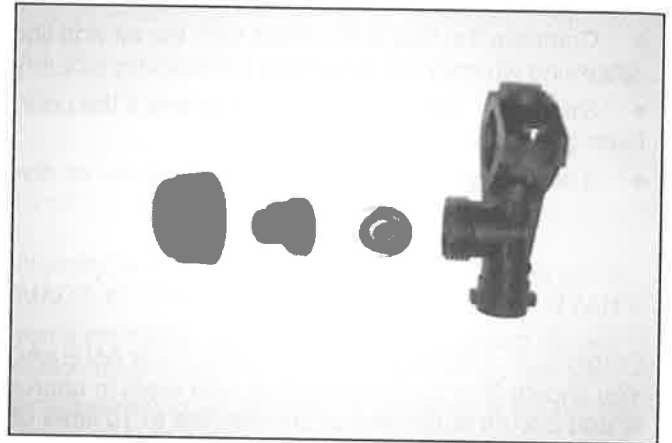
Inspect the nozzle tip face and replace if damaged.

"I HAVE NO SPRAY COMING OUT OF A NOZZLE"

Check for blockages by removing the nozzle and cleaning with compressed air.

WARNING:

DO NOT CLEAN THE NOZZLE BY BLOWING BY MOUTH!



Remove the check valve and inspect for blockages.

BOOMS

"MY INNER AND OUTER BOOMS ARE NOT IN LINE WITH EACH OTHER WHEN I FOLD OUT MY BOOMS."

Refer to the Operator Manual section "BOOM CABLES" for information about adjusting the alignment of the inner and outer booms.

"MY BOOM APPEARS TO BE NOT RIDING SMOOTHLY UP AND DOWN, AND IT LOOKS LIKE ITS BINDING ON THE MAST ROLLERS."

Or;

"MY TOWER APPEARS TO HAVE GOUGE MARKS OR SCORING ON THE TOWER RAILS."

Refer to the Operator Manual section "ADJUSTMENT OF MAST ROLLERS" for information about adjusting the vertical movement of the boom on the tower.

"ONE OF MY BOOMS IS NOT FULLY FOLDED WHEN THE OTHER IS ALREADY ALL THE WAY IN."

Refer to the Operator Manual section on "RE-PHASING THE RAMS" to correct the phasing of the boom rams.

"MY BOOMS WILL NOT FULLY FOLD TO THE BOOM RESTS."

Refer to the Operator Manual section on "MAINTENANCE – DELTA BOOMS" for information about grease points on the booms.

A lack of lubrication on the boom-link rose ends will result in the boom refusing to fully fold.

"I CANNOT GET MY BOOMS LEVEL."

Ensure that the air bag suspension is level before attempting to level the booms.

Adjustment of the height of the outer boom can be made by using the adjustment thread located at the bottom of the hinge.

TROUBLESHOOTING

"MY BOOMS ARE SHOWING SIGNS OF BROKEN WELDS OR BENT COMPONENTS"

Booms must not be folded or unfolded while the sprayer is moving. When the boom is between fully open and fully closed, there can be large stresses placed on many boom components. If the sprayer is moving and hits a bump, severe damage to the boom can occur.

Speed must be reduced when directional changes are made. Although the outer sections of the booms are now made from aluminium to reduce inertial forces, there is still significant stress placed on springs and dampeners when turning. Sharp changes in direction can cause severe damage to the boom.

The use of tilt cylinders (when fitted) should be kept to a minimum, and restrictors to slow down the speed of their operation **must be used.** Tilt operation affects the balance of the boom causing a violent rocking of the whole boom assembly. When the tilted boom is returned to the level position, considerable stress is transferred along the boom section. Wherever possible the boom should be raised with the lifting cylinder rather than the tilt, providing a level and dampened change in boom height.

TANK, CHASSIS, WHEELS ETC

"THE DRAWBAR OF MY SPRAYER IS BENT UP OR DOWN"

- All GoldAcres drawbars are fitted with a replaceable, hardened insert, which is internally tapered at the top and bottom to allow some pin movement.
- Using a pin that is too large will reduce the amount of movement, particularly when the sprayer and the tractor are at different angles. This may happen when the sprayer is towed through a ditch, or into a field from a road.

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