PRODUCT INFORMATION PD 400 SPRAYER

AIR PRESSURISED CANISTER SPRAYER

SUMMARY

The PD 400 canister sprayer is a fully mobile detergent / disinfectant unit requiring only an air supply.
The canister is filled with pre-diluted detergent / disinfectant solution and connected to an industrial air supply.
A 5 metre hose, control gun, lance and nozzle in allow the application of detergent / disinfectant to an area (nozzle size and design will need to be changed to suit application).
Note. The unit comes with stainless steel fittings.

Please study this information sheet to gain the most benefit from your equipment.

Note: The units may need to be annually inspected or tested for site insurance.

Note: Hypochlorite solutions can cause pitting corrosion on 304 St/St. It is recommended that after use with a chlorinated product, e.g. Chlorfoam, the unit is emptied and rinsed prior to storage.

Holchem guarantee the unit for 12 months from the date of delivery. The guarantee covers material defects, manufacturing defects or incorrect assembly. The guarantee does not cover wear and tear, misuse, use of incompatible chemicals or physical damage.

SPECIFICATION	PD 400 SPRAYER
HOLCHEM CODE	SKS03141
Vessel Capacity	Approx. 20 litres
Flow Rate - Liquid	Approx. 0.4 m^3/h (7 l/min)
Air Supply - Pressure	Pressure 3 to 6 bar (40 to 85 psi)
Air Supply - Flow	Approx. 10 m^3/h (150 l/min)
Air Inlet Connection	¼" hosetail on female quick connect
Total Height	1.00 m
Total Width	0.30 m
Total Depth	0.28 m
Weight	11 Kg
Materials of Construction (wetted parts)	316 St/St
Supplied with:	5 metre hose with control gun, lance and nozzle.
Not supplied with:	Air Line

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PRESSURE TEST

The unit is a pressure vessel and has been tested at manufacture.

Max. Working Pressure	80 psi
Min. Burst Pressure	520 psi
Static Test Pressure	140 psi (2 mins.)
Max. Working Temperature	33°C
Relief Valve Opening	80 psi

Site Insurance Companies may require routine testing of the unit.

PRINCIPLE OF OPERATION

The PD 400 Sprayer is filled with the working solution. The lid is replaced and the unit connected to an air supply. The air pressurises the canister and forces the working solution through the unit and hose / lance assembly.

SAFETY

1. The equipment should not be used prior to proper installation and commissioning.
2. The equipment should only be used by personnel trained in its use and in the use of the chemicals being dispensed.
3. Operators must wear suitable personal protective equipment for the chemical being dispensed.
4. Chemicals must never be mixed either prior to or after dilution.
5. The unit must be made safe prior to any maintenance:
   a. Flush chemical out of equipment by rinsing with clean water and running the unit.
   b. The equipment should only be maintained when the unit has been disconnected from the air supply and fully depressurised.
   c. If unit has failed and the chemical cannot be flushed then suitable personal protective equipment must be worn for disassembly.

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SERVICES REQUIRED

1. Isolated air supply.
2. Air pressure and flow requirements given in equipment specification.

INSTALLATION.

1. Open flip top release valve on the tank lid to discharge any remaining pressure in the vessel.
2. Lift the lid on the canister and fill with prediluted detergent / disinfectant solution. Canister holds 20 litres.
3. Refit the canister lid and ensure pressure relief valve is in down position.
4. Connect the air supply to the input connector and adjust the pressure regulator until the gauge reads 80 psi.
5. Squeeze the trigger on the gun and the chemical solution will be discharged from the nozzle. This can be rotated to provide a wide fan spray or a coarse jet.
6. Chlorinated products can be used through the unit but must be thoroughly rinsed out prior to storing the unit. Failure to do so may result in pitting corrosion of the canister and subsequent failure.

MAINTENANCE

1. Annual maintenance of lid seal, pressure relief valve, and air regulator is required.
2. Recommend hose, control gun lance and nozzle are replaced annually or when showing signs of wear.

TROUBLE SHOOTING

FAULT	DIAGNOSIS	REMEDY
Unit will not pressurise	Regulator closed	Re adjust
	Air line not connected correctly	Reconnect correctly
	Pressure relief valve open	
Unit pressurises but will not spray	Jet blocked	Unblock / clean
	Quick connect couplings incorrectly connected	Reconnect
Air blowing from pressure relief valve	Valve open	Close the valve
	Valve faulty	Replace

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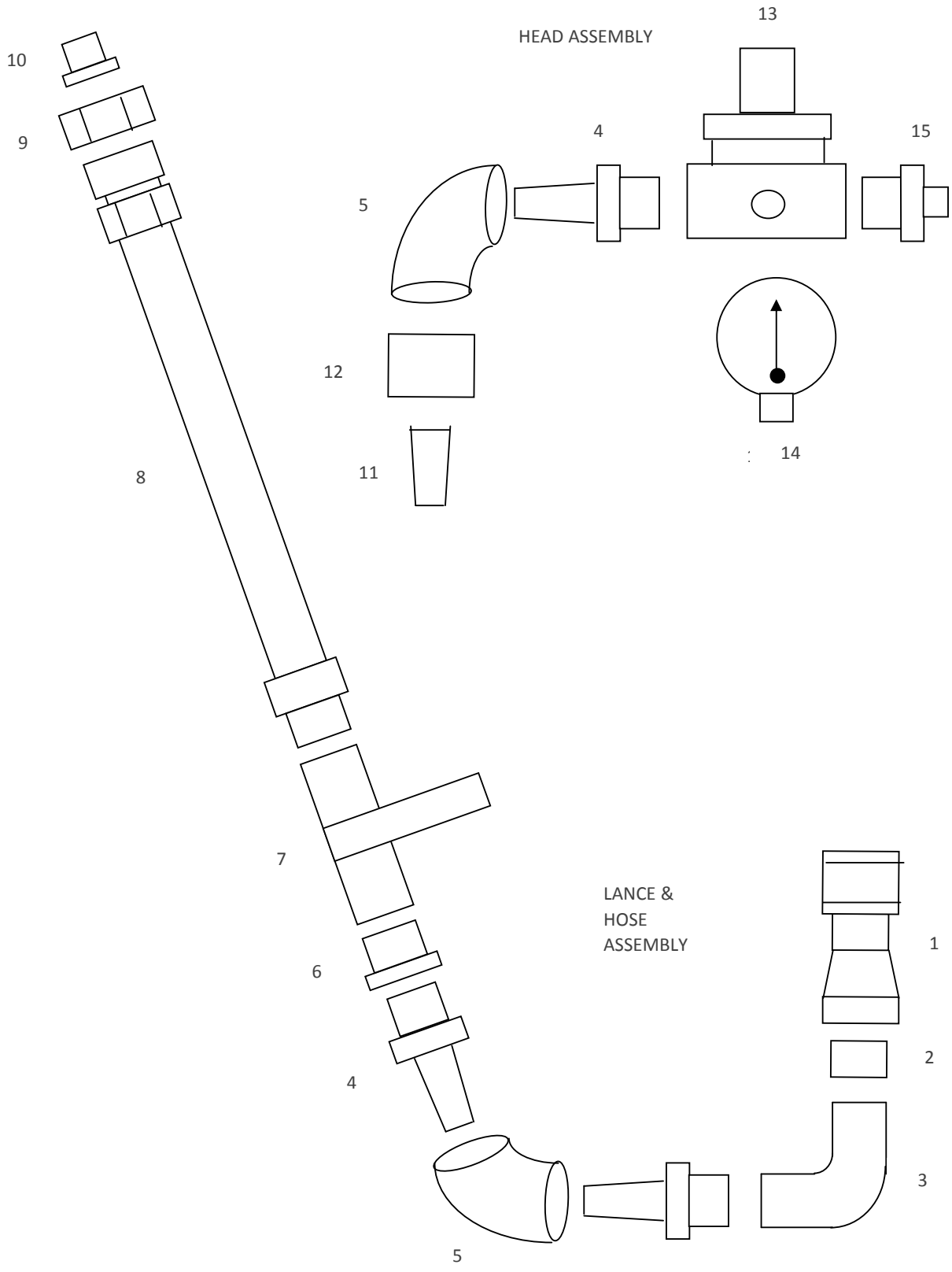
HEAD ASSEMBLY
13
10
9
4
15
5
12
11
14
8
7
LANCE &
HOSE
ASSEMBLY
1
6
2
4
3
5

PARTS LIST

HOLCHEM SKS CODE	REF	SUPPLIER CODE	DESCRIPTION
01901/05		JS75150	Pressure Relief Valve
01901/06			Lid Assembly
01901/07		JS75101	Lid Sealing Ring
01901/09	13	J85204	Air Regulator
01901/10	14	J75110	Pressure Gauge
01901/29	1	J75122	Quick Release Stainless Steel Socket
03140/01			Stainless Steel Lance Complete
03140/04	10		Set Of Four Plastic Nozzles
03140/05			Delivery Hose Assembly Complete (No Lance)
03141/03		J7145/04	Nozzle Red
03141/05		J7145/01	Nozzle Orange
03141/06		J7145/02	Nozzle Yellow
03141/07		J7145/03	Nozzle Blue
03141/09	9	J75152	Lance Cap Nut
03141/11	4	J75118	8mm Hosetail
03141/12	5	J75134	5 mtr Length Of 8mm Tresnobel Hose
03141/13	6		½" To ¼" Reducing Bush
03141/14	7	J75123	Ball Valve
03141/15	8	J75144	Lance
03141/17	11	J75116	Hosetail Cone Seat
03141/18	12	J75117	Locknut
03141/19	15	J85224	Plug / Non Return Valve
03141/26			Nozzle Stainless Steel
03141/27			Short 300mm Lance

Note. Parts with either no SKS number or description have not been purchased before but can be obtained by quoting the relevant part number on the drawings.

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