BINKS.

DX200 Diaphragm Pump



DX200AN





Product Description	Diaphr packag		DX70, DX200 Bare pump and EN
This Product is designed for use with:	Solven	t and Water b	ased Materials
Suitable for use in hazardous area:	Zone 1	& 2	
Protection Level:	II 2 G	X IIB T4 (NB C	0891)
Manufacturer:	-	ood Road, emouth, BH11	9LH. UK
EU Declaration of Conform	ity		C E (E)
We: Binks declare that the above product confo Machinery Directive 2006/42/EC	orms with th	ne Provisions o	of:
ATEX Directive 94/9/EC			
by complying with the following statutory documents and harmonized standards: EN ISO 12100: Safety of Machinery - General Principles for Design EN ISO 4413: Hydraulic Fluid Power - General Rules and safety requirements EN ISO 4414: Pneumatic Fluid Power - General Rules and safety requirements EN 12621: Machinery for the supply and circulation of coating materials under pressure - Safety requirements EN1127-1: Explosive atmospheres - Explosion prevention - Basic concepts EN 13463-1: Non electrical equipment for use in potentially explosive atmospheres - Basic methods and requirements EN 13463-5: Non electrical equipment for use in potentially explosive atmospheres - Protection by constructional safety			
Providing all conditions of safe use stated within the print which this product is installed has been re-assessere requirements of the above standards, directives and standard codes of practice.	ed as required	d, in accordance	with essential health and safety
	Brutt	D Smith 10/2/15	(General Manager)



EN In this part sheet, the words WARNING, CAUTION and NOTE are used to emphasize important safety information as follows:

A WARNING	A CAUTION	NOTE
Hazards or unsafe practices which could result in severe personal injury, death or substantial property damage.	Hazards or unsafe practices which could result in minor personal injury, product or property damage	Important installation, operation or maintenance information.

Read the following warnings before using this equipment.



READ THE MANUAL. Before operating finishing equipment, read and understand all safety, operation and maintenance information provided in the operation manual.



AUTOMATIC EQUIPMENT. Automatic equipment may start suddenly without warning.





PROJECTILE HAZARD. You may be injured by venting liquids or gased that are released under pressure, or flying debris.

KNOW WHERE AND HOW TO SHUT

EMERGENCY.

OFF THE EOUIPMENT IN CASE OF AN



DE-ENERGIZE, DE-PRESSURISE, DISCONNECT AND LOCK OUT ALL POWER SOURCES DURING MAINTENANCE. Failure to de-energize, disconnect and lock out all power supplies before performing equipment maintenance could cause serious injury or death.

NOISE LEVELS. The A-weighted sound level of pumping and spray

equipment may exceed 85 dB(A) depending on equipment settings.

ear protection is worn at all times while equipment is in use.

Actual noise levels are available on request. It is recommended that



PRESSURE RELIEF PROCEDURE. Always follow the pressure relief procedure in the equipment instruction manual.

OPERATOR TRAINING. All personnel

must be trained before operating

finishing equipment.

pacemakers.



INSPECT THE EQUIPMENT DAILY. Inspect the equipment for worn or broken parts on a daily basis. Do not operate the equipment if you are uncertain about its condition.

EQUIPMENT MISUSE HAZARD. Equipment misuse can cause the equipment to rupture, malfunction or start unexpectedly and result in serious injury.



HIGH PRESSURE CONSIDERATION. High pressure can cause serious injury. Relieve all pressure before servicing. Spray from the gun, hose leaks or ruptured components can inject fluid into your body and cause extremely serious injury.





KEEP EQUIPMENT GUARDS IN PLACE. Do not operate the equipment if the

safety devices have been removed.

PACEMAKER WARNING. You are in the

presence of magnetic fields which may interfere with the operation of certain



STATIC CHARGE. Fluid may develop a static charge that must be dissipated through proper grounding of the equipment, objects to be sprayed and all other electrically conductive objects in the dispensing area. Improper grounding or sparks can cause a hazardous condition and result in fire, explosion or elecrtic shock and other serious injury.



NEVER MODIFY THE EQUIPMENT. Do not modify the equipment unless the manufacturer provides written approval.



PROP 65 WARNING. WARNING: This product contains chemicals known to the state of California to cause cancer and birth defects or other reproductive harm.



PINCH POINT HAZARD. Moving parts can crush and cut. Pinch points are any areas where ther are moving parts.

IT IS THE RESPONSIBILITY OF THE EMPLOYER TO PROVIDE THIS INFORMATION TO THE **OPERATOR OF THE EQUIPMENT.**



Specification

	Dette	
	Ratio:	1:1
	Maximum air inlet pressure:	7 Bar [100 PSI]
	Maximum fluid pressure:	7 Bar [100 PSI]
	Displacement per cycle:	0.20 Litres [0.05 US Gall]
	Output @ 60 cycles / min:	12 Litres/min [3.17 US Gall/min]
	Maximum Recommended Continuous Cycle Rate (cycles / min):	25
	Maximum Recommended Intermittent Cycle Rate (cycles / min):	60
A	Fluid inlet connection:	3/4″ BSPP Female
В	Fluid outlet connection:	3/4" BSPP Female
С	Air inlet connection:	1/4" Universal (BSPP/ NPSM) Female
D	Fluid regulator pilot connection:	Ø4mm [Ø5/32"]
	Maximum dry/wet Lift:	4.6m [15.1ft] / 7.5m [24.6ft]
	Air volume / cycle @ 6.9 Bar/100psi:	2.83L [0.1 SCFM]
	Air flow @ 10 cycles / min 6.9 bar / 100psi:	28.3L [1 SCFM]
	Air flow @ 30 cycles / min 6.9 bar / 100psi:	84.9L [3 SCFM]
	Recommended air quality ISO 8573.1 Class 3.3.2 #:	Dirt: 5 μm Water: -20°C@7bar (940ppm) Oil: 0.1mg/m ³ Non Lubricated
	Noise Level @ 30 cycles/min & 7 bar [100 psi]	71.2 dBA Leq
E	Earth connection resistance:	<1Ω
	Weight:	9.5Kg [20.94lb's]
	Temperature range	0 - 40 °C [32 - 104 °F]



Installation











<u>Prior To Use</u>

This product should be flushed with a suitable compatible solvent prior to use.

Mount the pump securely and position the pump at a convenient height to allow for maintenance.

Attach flexible hoses to all connections. Connect a regulated air supply to the air connection.

Set the pump speed to a slow cycle rate and prime the pump to remove any air before increasing pressure.

Fluid Regulator Air Pilot

Set the air regulator pressure to give the desired fluid flow.

The pump inlet pressure should nominally be 1 bar (15 PSI) higher.

Pump Earthing

The pump must be earthed at all times. A resistance ${<}1\Omega$ when measuring with an ohm-meter at the earth point

Earth connection, Binks Part No. 0114-011798



Paint section materials of construction

Item	Material
Pump body	Aluminium
End cap	Aluminium
Diaphragms	PTFE
Seals	FKM/PE
Valve ball & spring	Stainless steel
End cap plugs	Stainless steel
Ball Cage	PE



Spare parts

Item	Part No.	Description
1	DXK-201	Check valve seal kit x4
2	DXK-202	Check valve kit x4
3	DXK-203	Diaphragm kit x2
4	DXK-204	Shaft & seal kit
5	DXK-205	End cap seal kit x2
6	DXK-206	Caps & screws x2
7	DXK-207	End cap bolts x12
8	DXK-208	End cap - Includes Item 5







Spare Parts

Item	Part No.	Description
9	DXK-209	Blanking plate & screws ‡
10	DXK-210	Blanking gasket x4 ‡
11	DXK-211	Insert ‡
12	DXK-212	Regulator cap & screws
13	DXK-213	Diaphragm assembly
14	DXK-214	Regulator Insert
15	DXK-215	Gasket x4
16	DXK-216	Air valve kit
17	DXK-25	Gasket x4
18	DXK-18	Cover, seal & screws
19	0114-011798	Grounding cable 4m
20	DXK-217	Non-Regulated Conversion Kit
21	DXK-221	Seal x4
22	DXK-218	3/4" BSP(M) - 3/8" BSP(F) Connector with seals
23	DXK-219	3/4" BSP(M) - 3/8" BSP(M) Connector with seals
24	DXK-220	Seal x4
25	DXK-19	Seal x4
26	DXK-247	Manual regulator control

= parts for non-fluid regulator model

Spare parts



Inlet Connectors

77-3207-R1.2







Maintenance







<u>Maintenance</u>

Figure 1





Maintenance schedule

Typical period	Recommended operation
Monthly	 Check for fluid or air leaks Inspect Pump for Correct operation Check for any excessive mechanical noise Check for excessive fluid pressure pulsation
6 Months	 Perform a pump stop test to ensure correct operation, by ensuring pump stops when the spraygun trigger is closed and there is no fluid flow. If pump does not stop inspect ball check valves, replace as required. Check fluid regulator adjusts fluid pressure correctly. Replace if faulty
12 Months	 Replace Diaphragms Replace fluid regulator seat and diaphragm Replace centre shaft and seals Replace Check valves Inspect and replace if required:- Air Valve module

Fault finding

Symptom	Possible Cause	Remedy
Pump will not 'Prime'	a. Air getting into the suction hose/manifold b. Check valve ball/seal damaged	a. Check hose connections b. Inspect, clean/replace balls/seats
Pump will not run	a. No Air or Fluid supply b. Air valve worn or defective	a. Check air and fluid supply ball valves and supply hoses. b. Replace valve module.
Pump runs but has excessive pulsation	a. Air getting into fluid line, air supply restricted. b. Fluid check valves damaged c. Worn centre shaft/seals d. Worn air valve	 a. Check seals and hose connections. Check air supply b. Remove, clean, and inspect seat, ball, and ball cage. Replace if suspect or worn. c. Replace shaft and seals. d. Replace air valve module



Bare pump selection



Item	Part No.	Description
1	GA-382-P	Gauge
2	S-1817	Ø4mm Hose
3	MPV-10	QD stem 1\4" male



WARRANTY POLICY

Binks products are covered by Finishing Brands one year materials and workmanship limited warranty. The use of any parts or accessories, from a source other than Finishing Brands, will void all warranties. For specific warranty information please contact the closest Finishing Brands location listed below.

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