DATA SHEET

# FPZ SIMPLIFIED FLUID HANDLING

# Metering pumps Model D

FPZ Dosing Pump model D are used in the most severe duty applications. Mechanical Diaphragm dosing pumps are the best solution when:

PUMPED LIQUID CONTAINS SMALL AMOUNTS OF SUSPENDED SOLIDS PUMPED LIQUID IS HAZARDOUS NO LEAKAGE IS ALLOWED HIGH PRESSURE IS NOT REQUIRED



## **Applications**

Injection of chemicals as coagulant, fertilizer, acids, polymers and much more.
Commonly used in the following applications:

- Fertigation
- · Water treatment
- · Paper industry
- · Chemical industry
- Food industry
- Cooling towers

#### **Features**

- Simplex and multi-head version are available.
- NPT valve connections are standard. BSP or other connections are available upon request.
- · Cataphoresis painting for gearbox
- Endless screw worm gear box supported by bearings and fully lubricated in an oil bath.
- Fitted as standard with high quality 4 pole electric motor that conform to UL;CSA;UNEL-MEC specifications, and range start at 1/3 HP.
   Standard 3 phase voltages are 208-230/460V -60Hz.
   Standard 1 phase voltages are 115/208-230V-60Hz.
- Motors are available to meet a wide range of alternative specifications including: IEEE841, IEEE45, Explosion proof; different voltages, frequencies, higher insulation standards and more.
- Stroke adjustment can be made with the pump at rest or in operation and it can be manual or an automatic actuator can be driven by a 4-20 mA; different BUS; pneumatically.
- Components in wetted areas are available in a wide range of materials suitable for chemical injection applications.

# **General specifications**

Pump model	Reducer ratio	SPM	Capacity (gph)	Max press	sure (PSIg)	Connection	Power installed (HP)
	I	42	1.59	_			
D050U-30	F	70	2.54	Metal	Plastic	<sup>1</sup> /2" NPT male	1/3
D0500-30	С	116	4.44	203	145	-/2 NPT IIIate	*/3
	В	139	5.39				
	I	42	4.44	_			
D050U-50	F	70	7.61	_ 1/.	5.5	<sup>1</sup> /2" NPT male	1/3
D0500-50	С	116	12.36	_	5.5	-/2 NPT IIIate	<del>*</del> /3
	В	139	15.53				
Reducer ratio le	gend: <b>I</b> = 1:40 · <b>F</b> = 1:	24 · <b>C</b> = 1:1	14.5 · <b>B</b> = 1:12				
	I	42	16.80				
D10011 70	F	70	27.90		) F	<sup>1</sup> /2" NPT male	1 /-
D100U-70	С	116	46.23		2.5	±/2 NPT mate	1/3
	В	139	55.74				
	1	42	25.62				
D10011 00	F	70	42.80	- - 43.5		3/4" NDT	1/2
D100U-90	С	116	70.80	4:	3.5	<sup>3</sup> /4" NPT male	1/3
	В	139	85.86				
	ı	42	34.08				
D100U 10E	F	70	57.06	_	75	3/ # NDT	1 /
D100U-105	С	116	94.04	21.75		<sup>3</sup> /4" NPT male	1/3
	В	139	114.12	_			
	I	42	41.74				
D100U 130	F	70	69.21	_	75	1" NPT male	1 /
D100U-120	С	116	114.65	_ 21	.75		1/3
	В	139	138.69	_			
Reducer ratio le	gend: <b>I</b> = 1:40 · <b>F</b> = 1:	24 · <b>C</b> = 1:1	14.5 · <b>B</b> = 1:12				
	F	84	31.17				
D101U-70	С	116	42.26	14	45	<sup>1</sup> /2" NPT male	1/3
	В	144	50.45				
	F	84	50.45				
D101U-90	С	116	68.70	1	01	<sup>3</sup> /4" NPT male	1/3
	В	144	85.30				
	F	84	69.74				
D101U-105	С	116	99.59	_	)4	<sup>3</sup> /4" NPT male	1/2
	В	144	121.78	_			
	F	84	79.25				
D101U-120	С	116	108.31	- 72	2.5	1" NPT male	1/2
	В	144	132.61	_			

Reducer ratio legend: **F** = 1:20  $\cdot$  **C** = 1:14.5  $\cdot$  **B** = 1:11.5



# **General specifications**

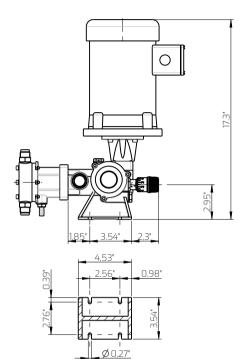
Pump model	Reducer ratio	SPM	Capacity (gph)	Max pressure (PSIg)	Connection	Power installed (HP)
	F	84	105.14	_		
D121U-120	С	116	144.24	72.5	1" NPT male	1/2
	В	144	180.69			
Reducer ratio le	gend: <b>F</b> = 1:20 · <b>C</b> = 1	1:14.5 · <b>B</b> =	1:11.5			
Metallic version	1					
	F	67	81.36			
D122U-120	С	115	141.07	87	1" NPT male	3/4
	В	134	168.54			
	F	67	141.07			
D122U-140	С	115	168.54	43.5	1" NPT male	3/4
	В	134	273.95			
	F	67	167.22			
D122U-160	С	115	283.98	43.5	1 <sup>1</sup> /2" NPT male	1
	В	134	336.82			
Plastic version						
	F	67	85.59			
D122U-120	С	115	148.46	87	1" NPT male	3/4
	В	134	177.52	_		
	F	67	148.46			
D122U-140	С	115	177.52	43.5	1" NPT male	3/4
	В	134	288.47			
	F	67	175.94			
D122U-160	С	115	299.04	43.5	1 <sup>1</sup> /2" NPT male	1
	В	134	354.52			

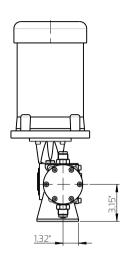
Reducer ratio legend: **F** = 1:20  $\cdot$  **C** = 1:14.5  $\cdot$  **B** = 1:11.5

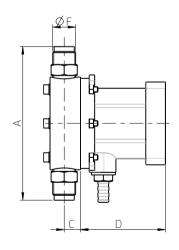


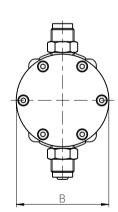
Dimensions 4

D050U







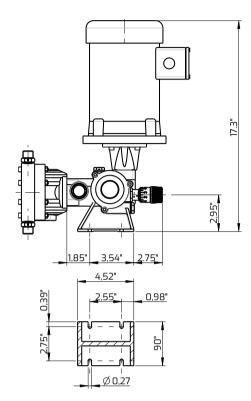


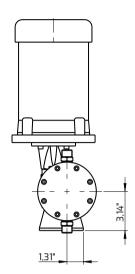
D del	Stainless Steel Configuration							Plastic Configuration					
Pump model	А	В	С	D	øF	lb	А	В	С	D	øF	lb	
D050U-30	4.96"	2.76"	0.53"	2.99"	1/2" NPT	24.6	5.87"	2.28"	6.5"	2.99"	<sup>1</sup> / <sub>2</sub> " NPT	22.4	
D050U-50	5.55"	3.35"	0.59"	3.07"	<sup>1</sup> /2" NPT	25.7	6.46"	3.54"	0.85"	3.07"	<sup>1</sup> / <sub>2</sub> " NPT	23.5	

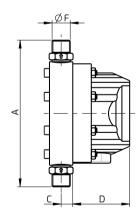


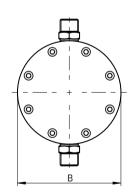
**Dimensions** 5

### D100U







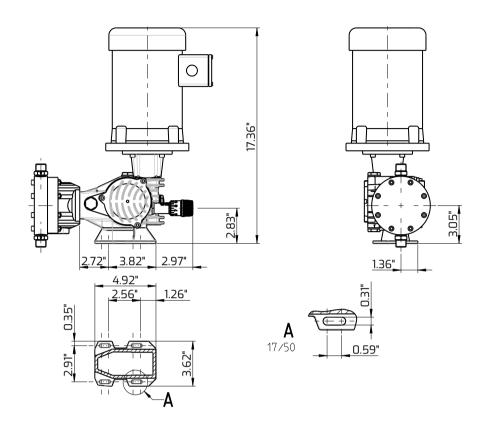


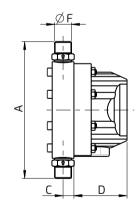
Danier was del		Stainless Steel Configuration							Plastic Configuration				
Pump model	А	В	C	D	øF	lb	А	В	C	D	øF	lb	
D100U-70	6.69"	4.72"	0.53"	2.16"	1/2" NPT	29	9.05"	4.8"	0.9"	2.44"	<sup>1</sup> /2" NPT	22.5	
D100U-90	8.03"	5.51"	0.82"	2.12"	3/4" NPT	33.5	9.21"	5.39"	1.33"	2.36"	3/4" NPT	24.6	
D100U-105	8.34"	5.9"	0.82"	2.12"	3/4" NPT	35.7	8.66"	6.1"	0.9"	2.12"	3/4" NPT	26.8	
D100U-120	11.02"	6.69"	1.06"	2.2"	1" NPT	45.6	10.98"	7.09"	1.26"	2.2"	1" NPT	31.3	

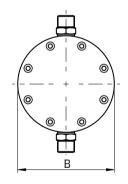


**Dimension** 6

D101U D121U





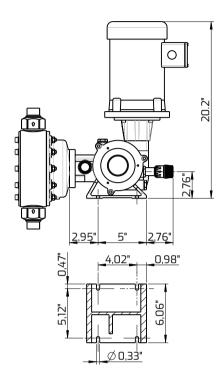


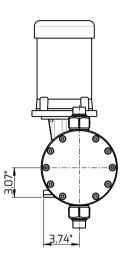
		Stainless Steel Configuration							Plastic Configuration					
Pump model	А	В	C	D	øF	lb	А	В	C	D	øF	lb		
D101U-70	6.69"	4.72"	0.53"	2.16"	1/2" NPT	33.3	9.05"	4.8"	0.9"	2.44"	<sup>1</sup> / <sub>2</sub> " NPT	26.8		
D101U-90	8.03"	5.51"	0.83"	2.13"	3/4" NPT	36.8	9.21"	5.39"	1.33"	2.36"	3/4" NPT	27.9		
D101U-105	8.35"	5.9"	0.83"	2.13"	3/4" NPT	39	8.66"	6.1"	0.90"	2.12"	3/4" NPT	30.1		
D101U-120	11.02"	6.69"	1.06"	2.2"	1" NPT	48.9	10.98"	7.09"	7.09"	2.20"	1" NPT	34.6		
D121U-120	11.02"	6.69"	1.06"	2.2"	1" NPT	48.8	10.98"	7.09"	7.09"	2.20"	1" NPT	34.6		

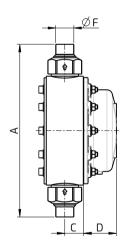


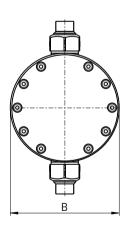
**Dimension** 7

D122U



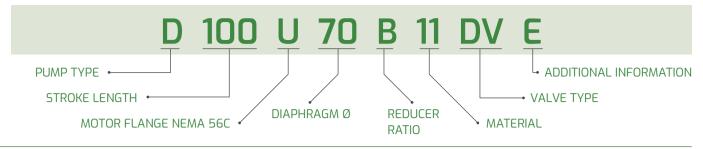




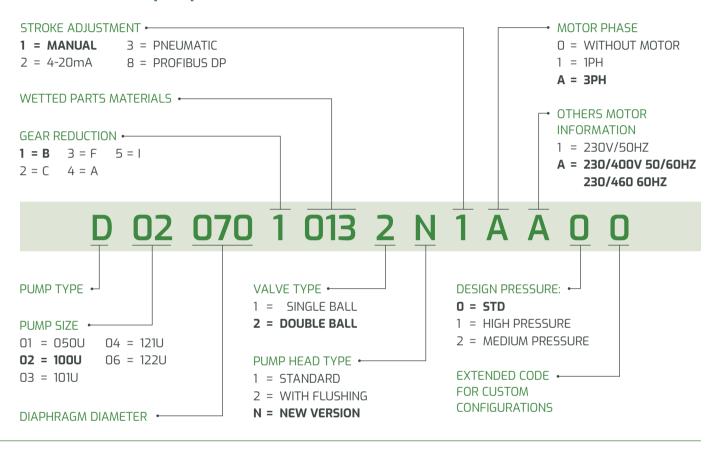


D		Stainless Steel Configuration							Plastic Configuration					
Pump model	А	В	С	D	øF	lb	А	В	C	D	øF	lb		
D122U-120	11.02"	6.69"	1.1"	2.62"	1" NPT	99.4	11.69"	7.08"	1.30"	2.62"	1" NPT	83.9		
D122U-140	12.2"	7.87"	1.1"	2.36"	1" NPT	106	12.48"	7.87"	1.38"	2.36"	1" NPT	88.3		
D122U-160	13.85"	8.66"	1.46"	2.36"	1 <sup>1</sup> /2" NPT	125.8	13.81"	8.86"	1.38"	2.36"	1 <sup>1</sup> /2" NPT	90.5		





### How to read the pump code



# Wetted parts code for standard materials

Standard construction materials (wetted parts only)													
Material codes	Pump head	Diaphragm	Valve ball	Valve seat	Valve gasket								
11	S.S.316L	PTFE coated	S.S.316L	S.S.316L	FPM								
12	PP	PTFE coated	Pyrex	PP	FPM								
13	PVC	PTFE coated	Pyrex	PVC	FPM								
16	PVC	PTFE coated	S.S.316L	PVC	FPM								
23	PVDF	PTFE coated	Pyrex	PVDF	FPM								

Data is for reference only and subject to change without notice.

