



General Description

The "Minimax" Pump range is specifically designed for injecting chemical, antifreeze and corrosion inhibitors; these injectors are single acting air/gas driven, positive displacement pumps, which operate at supply pressure ranging from 15 to 125 psi; all series are powered by a piston motor (available upon request with spring return for the CL version) and the supply pressure is cycled only on one side of the power piston before being released.

A wide regulation of flow rates can be achieved by means of operating the speed control valve, while the exhaust port can be piped when gas is the power source.

The construction is aimed to provide solutions, which are corrosion resistant and complete specific units can be designed and manufactured to suit the specific application need and to meet customer's requirements.

Typical Applications

HydroPneumatic Minimax Pumps are typically the perfect solution for:

- Chemical Injection and Metering Systems as well as portable test unit



Plus

- Available in other sizes and series

Features

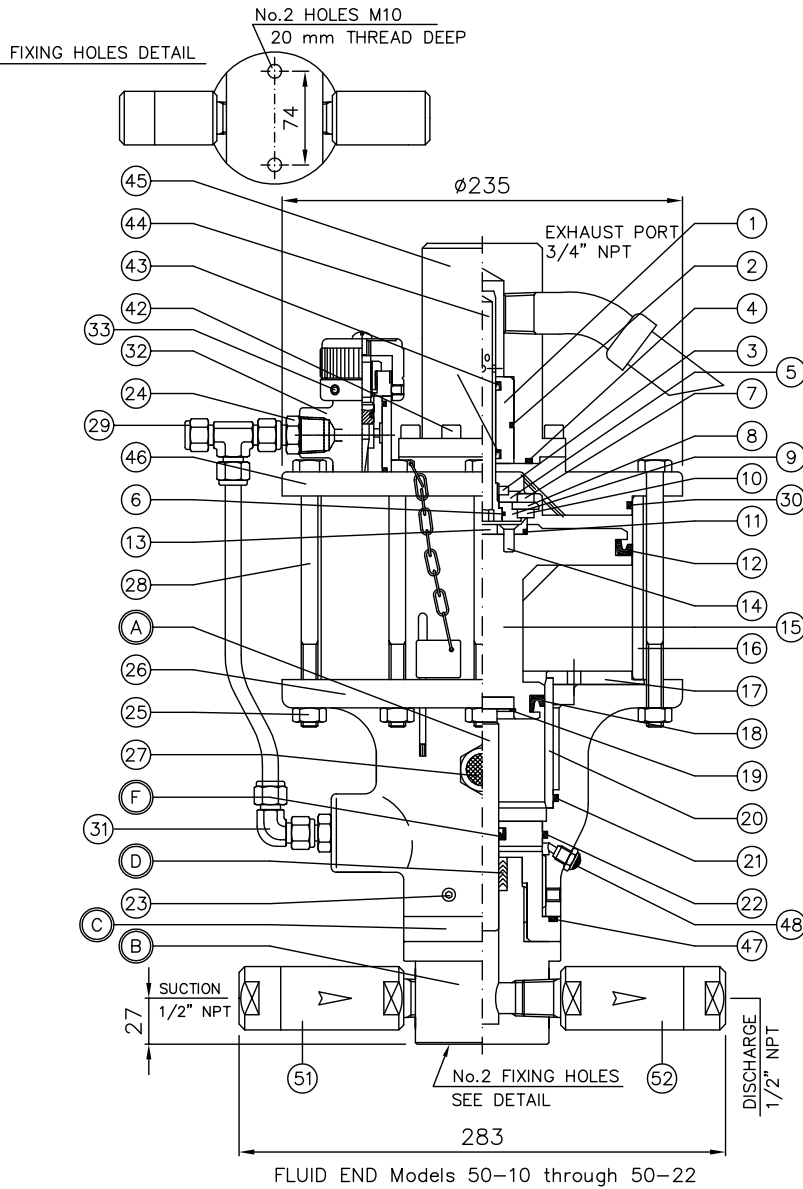
- Comprehensive range suitable for the construction of packaged systems and skids to meet the customer's precise design requirements and specifications
- Available in 10 models, with piston spring return - CL model, and without speed control valve
- Suitable for extreme service
- Intrinsically safe
- Reliable
- Easy to install
- Low gas consumption
- Pressures up to more than 26000 PSI (1800 bar)



Performance Data (supply pressure 7 BAR / 100 PSI)

Model Number	Gas / Fluid Pressure Ratio	Volume Cm ³ /Stroke	Max. Discharge Pressure		Max. Volume / Day			
			PSI	BAR	Intermittent (50 strokes / min.)		Continuous (35 strokes / min.)	
					Gals	Lts	Gals	Lts
50-10	264/1	3.9	26000	1790	37	141	29	112
50-12	183/1	5.6	18000	1240	54	201	42	161
50-14	135/1	7.7	13500	930	74	277	58	221
50-16	103/1	10.0	10500	724	95	360	76	288
50-18	80/1	12.7	8100	560	121	457	96	365
50-22	53/1	18.9	5300	370	180	684	144	547
50-26	38/1	26.0	3980	275	247	936	197	748
50-30	28/1	35.0	2800	195	335	1271	268	1016

Main components & details

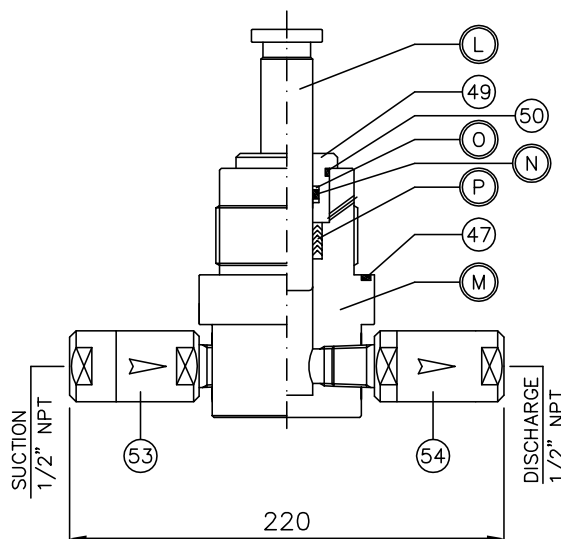


FLUID END Models 50-10 through 50-22

Fluid end Items

Number	Item
A	Hydraulic Piston
B	Body
C	Packing Retainer
*D	Packing
*F	"U" Packing
L	Hydraulic Piston
M	Body
*N	"O" Ring
*O	"BK" Ring
*P	Packing
53	Suction Check Valve
54	Discharge Check Valve

* Suggested spare parts



FLUID END Models 50-26

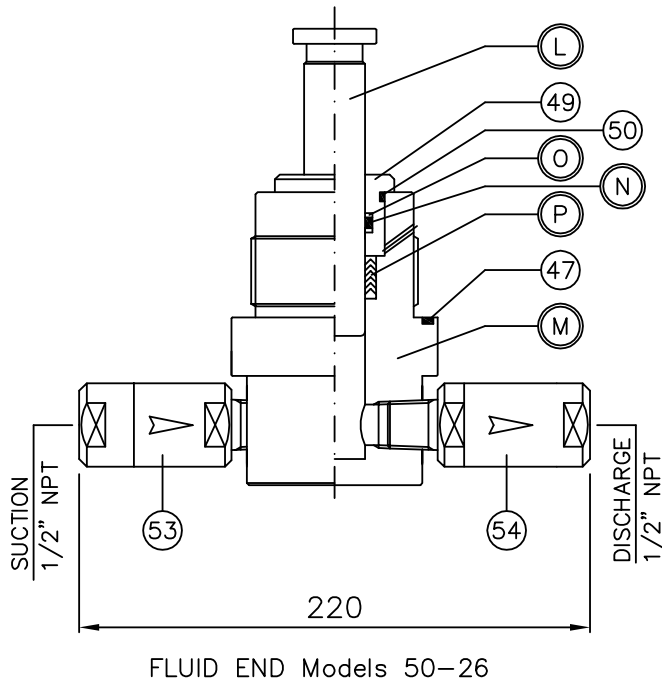
Power end Items

Number	Item	Q.ty
1	Cup Retainer	1
*2	"O" Ring	1
3	Stroke Stem Nut	1
*4	"O" Ring	1
5	Dump Ring Retainer	1
*6	"O" Ring	1
*7	Dump Ring	1
8	Actuating Valve Outer Ring	1
9	Actuating Valve Inner Ring	1
*10	Soft Seal	1
*11	"O" Ring	1
*12	Upper Piston Seal	1
13	Actuating Valve Seat	1
14	Seat Bolt	4
15	Pneumatic Piston	1
16	Upper Cylinder	1
17	Cylinder Plate	1
*18	Lower Piston Seal	1
19	Snap Ring	1
20	Lower Cylinder	1
*21	"O" Ring	1
*22	"O" Ring	1
23	Set Screw	3
24	Male Connector	2
25	Nut	8
26	Lower Body	1
27	Breather	2
28	Bolt	8
29	Street Tee	1
*30	"O" Ring	1
31	Elbow	1
32	Speed Control Valve	1
33	Set Screw	3
42	Socket Screw	6
*43	"U" Cup	2
44	Stroke Stem	1
45	Exhaust Body	1
46	Cylinder Head	1
*47	"O" Ring	1
48	Breather	1
49	Packing Retainer	1
*50	"O" Ring	1

* Suggested spare parts



Performance data



Fluid end Items

Number	Item	Model
A	Hydraulic Piston	50 - 10 through 50 - 22
B	Body	50 - 10 through 50 - 22
C	Packing Retainer	50 - 10 through 50 - 22
*D	Packing	50 - 10 through 50 - 22
*F	"U" Packing	50 - 10 through 50 - 22
G	Hydraulic Piston	50 - 30 through 50 - 36
H	Body	50 - 30 through 50 - 36
*I	"O" Ring	50 - 30 through 50 - 36
*J	"BK" Ring	50 - 30 through 50 - 36
*K	"U" Packing	50 - 30 through 50 - 36
L	Hydraulic Piston	50 - 26
M	Body	50 - 26
*N	"O" Ring	50 - 26
*O	"BK" Ring	50 - 26
*P	Packing	50 - 26
51	Suction Check Valve	50 - 22 through 50 - 30
52	Discharge Check Valve	50 - 22 through 50 - 30
53	Suction Check Valve	50 - 10 through 50 - 22
54	Discharge Check Valve	50 - 10 through 50 - 22

* Suggested spare parts

