













## Pump Selection Guide & Performance Chart

Model Number	Plunger Size	Piston Size	Amplification Chart	Supply Pressure PSI	Discharge Pressure PSI(a)	Maximum Full Strokes Per Minute	Output Volume Qts./Day(b)
A40	1/4"	1.25"	25:1	15 to 150	0 to 3,500	60	0 to 90
A42	1/4"	2.25"	80:1	10 to 150	0 to 10,000	55	0 to 70
A44	1/4"	4"	240:1	10 to 45	0 to 10,000	35	0 to 30
A44CR	1/4"	4"	240:1	10 to 45	0 to 10,000	55	0 to 50
A60	3/8"	1.25"	11:1	15 to 150	0 to 1,600	60	0 to 200
A62	3/8"	2.25"	36:1	10 to 150	0 to 5,400	55	0 to 155
A64	3/8"	4"	110:1	10 to 95	0 to 10,000	30	0 to 67
A64CR	3/8"	4"	110:1	10 to 95	0 to 10,000	55	0 to 122
A80	1/2"	1.25"	6.25:1	15 to 150	0 to 935	60	0 to 360
A82	1/2"	2.25"	20:1	10 to 150	0 to 3,000	55	0 to 275
A84	1/2"	4"	60:1	10 to 150	0 to 9,000	30	0 to 120
A84CR	1/2"	4"	60:1	10 to 150	0 to 9,000	55	0 to 220
A164	1"	4"	16:1	10 to 150	0 to 2,400	40	0 to 680
A164CR	1"	4"	16:1	10 to 150	0 to 2,400	55	0 to 935

For information on Plunger Material & Plunger Packing Material, see Sidewinder Pump Model Number Chart inside of this brochure.

(a) 1 psig = 0.0703 kg/sq. cm • (b) 1 quart = 0.946 liters

\*\*"GS" Option available - Models A42E-GS, A62E-GS, A82E-GS

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Sidewinder Pumps, Inc. asserts Trademark rights in and to the distinctive appearance of Sidewinder model A40/A60/A80 & A42/A62/A82 pumps.

## CAUTIONS & WARNINGS



**1) WARNING - (Risk of fluid injection and/or death)** When installing the pump, do not use poly tubing, copper tubing, or seamed tubing as a discharge line. Manufacturer recommends using 316 SS seamless tubing rated for maximum discharge pressure of the specific pump model being used. Use of incorrect material may result in discharge line failure leading to personal injury, death, and/or a compromise of the intended injection objectives.



**2) Safe operation of the pump requires appropriately rated pressure limiting devices on both the air or drive inlet, and on the pump discharge. Gas and fluid circuits must insure that no part of the pump is operated above its rated pressure. All pressure relief devices must be safety rated.**



**3) WARNING (Risk of Explosion)** Operation of the pump could buildup a static charge, potentially triggering an explosion. The pump must be grounded to prevent buildup of static. If metal tubing attached to the pump does not adequately provide grounding, the pump must be grounded with a suitable ground wire per NEC and local ordinances. **(Use a minimum 12 AWG copper wire)** Connect the wire to earth ground and insure that connecting equipment and air, suction, and discharge lines are likewise proven grounded.

a) For Models A(40, 60, 80, 42, 62, and 82), a ground lug assembly (As shown in Figure B) replaces one of the 1/4-20 set screws holding the piston chamber to the mounting tube. Use the provided ground lug assembly to securely connect your ground wire to the pump.



Figure B

b) For Models A(44, 64, 84, & 164), use the provided 1/4-20 x 3.75 tie bolt, external tooth washer, and ring terminal to securely connect your ground wire to the pump. (See Figure C )



Figure C

### 4) Storage Instructions

a) Store the pump in a clean and dry location.

b) Do not remove the protective plugs or covers from the plumbing ports. They are provided to insure the internal parts of the pump remain clean.

c) Wipe/Clean the outside of the pump thoroughly prior to removing the protective plugs and covers from the plumbing ports. This reduces the risk of internal contamination from dirt or debris.

5) Installation shall be carried out by suitably trained personnel in accordance with the applicable code of practice e.g. EN 60079-14

6) Inspection and maintenance shall be carried out by suitably trained personnel in accordance with the applicable code of practice e.g. EN 60079-17

7) Repair shall be carried out by suitably trained personnel in accordance with the applicable code of practice e.g. EN 60079-19



**8) If the pump is likely to come into contact with aggressive substances or chemical/gas/solvents that are incompatible with the materials the pump is made of, the pump will wear out rapidly, will leak, and could rupture. The user must take suitable precautions to prevent adverse effects, thus ensuring that the pump construction is not compromised. Suitable precautions include regular checks, such as an initial inspection after one week of operation, then monthly checks thereafter, if it can not be established from the material data sheets that the chemical/gas/solvent will not impact adversely, the pump. If in doubt, contact Sidewinder Pumps.**

9) For use with chemicals other than those originally specified at the time of purchase, please contact Sidewinder Pumps.



## EC DECLARATION OF CONFORMITY

We: **Sidewinder Pumps Inc.**  
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declare under our sole responsibility that the products,

**Pneumatic Metering Pumps**  
**Models A40, A60, & A80; Models A42, A62, & A82; Models A44, A64, & A84; Model A164**

and their various configurations, to which this document relates, are in conformity with the following documents:

Directive: **ATEX Directive 2014/34/EU**  
According to Annex VIII, "Internal Control of Production"

Standards: **EN 13463-1:2009**  
Non-Electrical Apparatus for Potentially Explosive Atmospheres  
**EN 13463-5:2003**  
Part 5: Protection by constructional safety "c"



The technical files are maintained at:  
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Statement Relating to Pressure Equipment Directive - 2014/68/EU:

Under exclusion of Article 1, Section 2(j); Dimensioning, choice of material and manufacturing rules are based primarily on requirements for sufficient strength, rigidity and stability to meet the static and dynamic operational effects or other operational characteristics and for which pressure is not a significant design factor.

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