



Chemical Metering Pumps

[www.sidewinderpumps.com](http://www.sidewinderpumps.com)

## **GAS RECOVERY METERING INJECTION PUMP**



**Sidewinder Pumps, Inc.**

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There ain't no better pump

**Model 42 Chemical Metering Pump**

- One quarter inch plunger
- 80:1 ratio
- Working pressures to 10,000 PSI
- Flows to 70 quarts per day

**Model 62 Chemical Metering Pump**

- Three eighths inch plunger
- 36:1 ratio
- Working pressures to 5,400 PSI
- Flows to 155 quarts per day

**Model 82 Chemical Metering Pump**

- One half inch plunger
- 20:1 ratio
- Working pressures to 3,000 PSI
- Flows to 275 quarts per day



Model 42-402-GS in service  
 Ceramic Plunger with Teflon Graphite Uniseal  
 Pump injecting 10 gallons per day of H<sub>2</sub>S scavenger  
 Exhaust gas recovered to 70 PSI gas line  
 from separator to compressor

**Pump Specifications and Performances**

Model Number	Plunger Size	Piston Size	Amplification Ratio	Supply Pressure (PSI)	Discharge Pressure (PSI)	Maximum Full Strokes Per Minute	Out Put Volume Qts/Day
42	1/4"	2.25"	80:1	15 to 150	0 to 10,000	55	70
62	3/8"	2.25"	30:1	15 to 150	0 to 5,400	55	155
82	1/2"	2.25"	20:01	15 to 150	0 to 3,000	55	275

# Gas Recovery Metering Injection Pump

## **Benefits of the GS Chemical Metering Injection Pump:**

- Pump components are NACE MRO 175 compliant
- Pumps equipped with Ceramic Plungers have life time warranty against plunger breakage or wear.
- Pumps are field serviceable, easy to repair with low cost of purchase & ownership.
- Any existing Model 42/62/82 Series can be retro fitted to the GS Series
- Compliant with ZERO emissions policies
- Applicable in hazardous & explosion proof environments
- 100% Recovery of exhaust

## **Applications include but are not limited to:**

- Sour Gas Recovery: Route H<sub>2</sub>S gas exhaust to H<sub>2</sub>S scavenger system
- Gas Recovery for Hazardous Areas: Redirect exhaust gas away from Class 1 Div 1 Group D areas
- Gas Recovery to flare stack
- Gas Recovery injected back into low pressure side of compressor or separator unit
- Gas Recovery of exhaust gas into odorized units
- Gas Recovery as fuel source for natural gas aspirated engines

### **Formula for calculating recovery pressure:**

$$\text{Recovery pressure} = \text{Supply pressure (-) } \frac{\text{Discharge Pressure}}{\text{Amplification Ratio}} \text{ (-) 25 psig}$$

\*\*Gas Recovery Pump formula calculator is available online at : <http://sidewinderpumps.com/gas-recovery>.



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*“Dedicated to providing state of the art metering solutions for all your chemical treatment needs.”*

### Sidewinder Pumps, Inc.

**Pneumatic Chemical Metering Pumps**

**Solar Powered Chemical Metering Pumps**

**Electric Powered Chemical Metering Pumps**

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