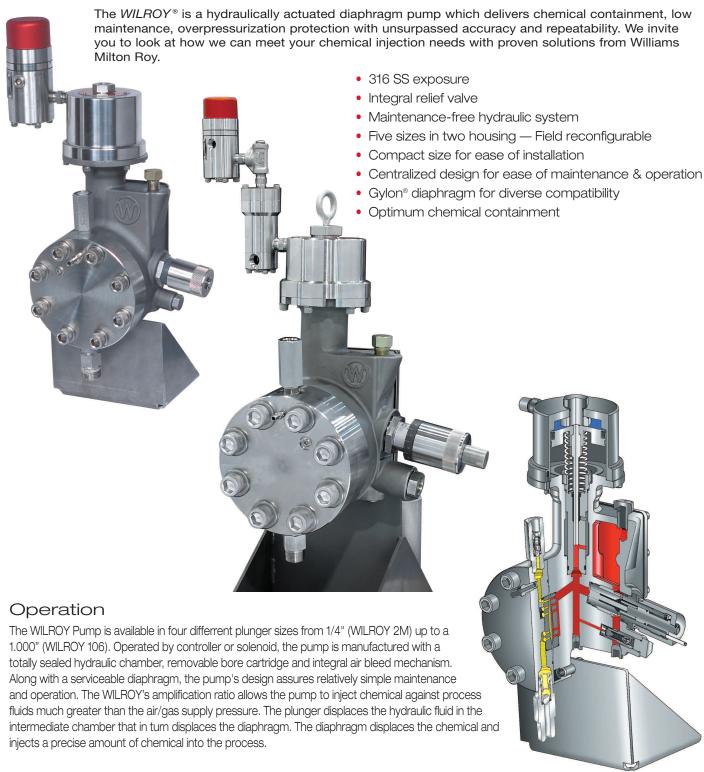




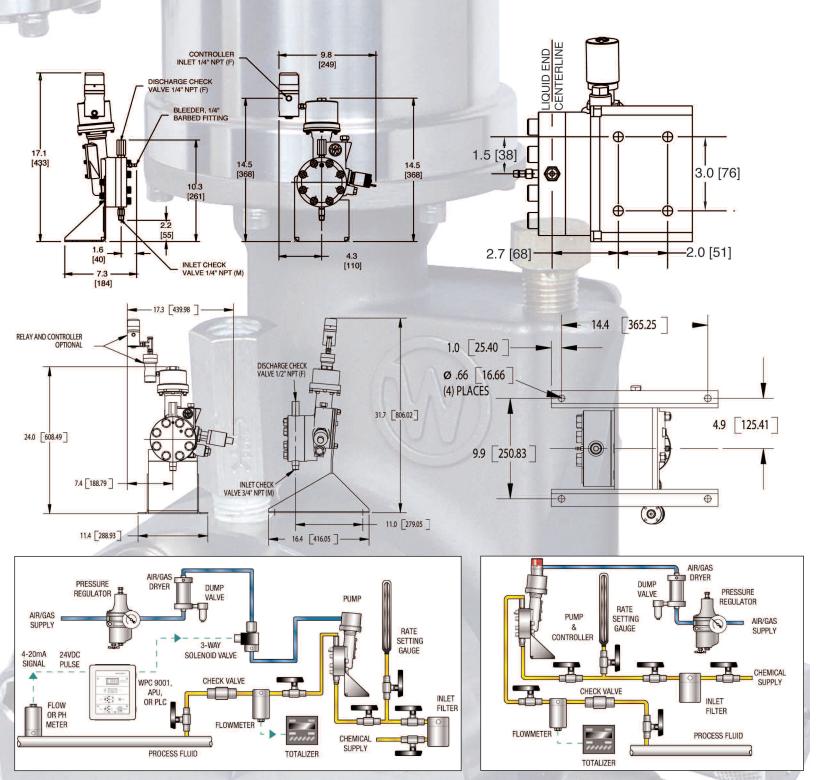
#### HYDRAULICALLY ACTUATED DIAPHRAGM PUMP

Williams and Milton Roy have combined technologies to design a pump blending the proven mRoy® hydraulic by-pass diaphragm design with the Williams "V" Series pump. The result is the low volume, high turndown characteristics of a pneumatic drive coupled with the chemical containment and high pressure capabilities of a hydraulically actuated diaphragm.



### Optional Diaphragm Rupture Detection

The WILROY® diaphragm liquid ends are, by design, leakproof and durable. In some applications however, added assurance is desired to protect the pump internals from extremely hostile chemicals, or protect the process from potential contamination by hydraulic fluids, or to provide additional containment of the chemicals from being released to the environment.



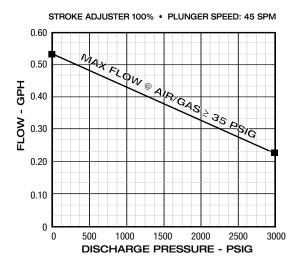
FlowTracking Controller Configuration

**Standard Pneumatic Controller Configuration** 

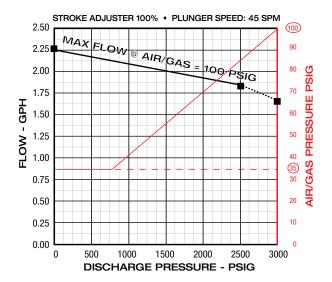
Wilroy A & B Performance Characteristics

		Volume Per	Stroke Length	Strokes Per Minute	Max Discharge Pressure	Max Air Consumption		
Model	Maximum Volume					@100 PSIG	@6.9 BAR	Weight lbs/Kg
	@500PSI GPH / LPH	Stroke CC	INCH	(Range)	PSIG / BARG	SCF Per Day	SCM Per Day	
WILROY® 2M	.54/2.04	.8	1	1-45	3000/207	2068	59	27/12.2
WILROY <sub>®</sub> 5M	2.25/8.51	3.2	1	1-45	3000/207	2068	59	27/12.2
WILROY® 754	5.0/18.9	7.3	1	1-45	2500/172	3548	101	121.5/55.1
WILROY® 104	8.2/31.0	11.5	1	1-45	1600/207	3548	101	121.5/55.1
WILROY® 106	7.8/29.5	11.0	1	1-45	3000/207	7190	203	137/62.1

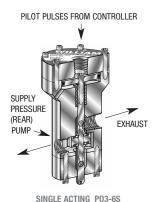
#### Flow Performance Graph for Wilroy® 2M

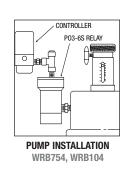


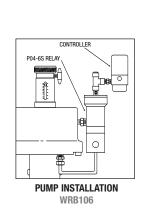
#### Flow Performance Graph for Wilroy® 5M

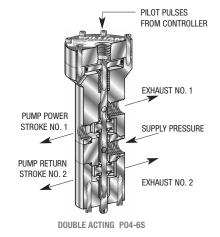


### PNEUMATIC RELAYS









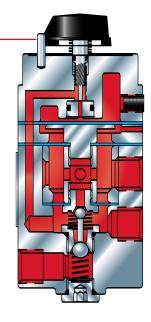
The PNEUMATIC RELAY is a pilot operated valve designed to provide the higher air or gas flow rates necessary for PNEUMATIC DRIVE CYLINDER diameters greater than 3 inches. The PNEUMATIC RELAY is actuated by the pulses produced by the CONTROLLER. A single acting PNEUMATIC RELAY is used with pumps that have return springs as illustrated to the upper left. The air or gas pressure is required to return the PISTON-PLUNGER ASSEMBLY on the CRP1000V800. Therefore a double acting PNEUMATIC RELAY is required, illustrated to upper right.

## <u>Oscillamatic<sup>®</sup></u>

### PNEUMATIC CONTROLLERS

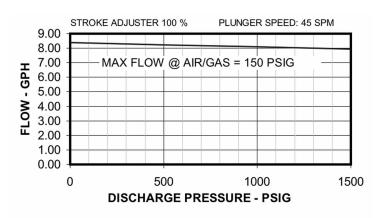
Featuring our latest addition to the Williams line - the MK XIIA controller which combines the corrosion resistance of 316 SS with the diaphragm-style spool design for ease of maintenance. The Williams "Oscillamatic" controllers are unique and precise pneumatic instruments. These units are designed to operate any pneumatic metering pumps or instrument requiring pilot pulses. The controllers accept a constant supply of air or gas pressure which produces pneumatic output pulses. The output signal is manually adjusted by a control rate valve. The controller, installed on the metering pump, provides the most accurate and reliable pneumatic control available today.

MODELS	SUPPLY PSI	RANGE BAR	BODY MATERIAL	STROKE SPM	ELASTOMERS AVAILABLE	SPOOL STYLE
MK XIIA	30-100 50-90	2.0-6.9	316 SS ANODIZED	1-45 1-45	NEOPRENE NEOPRENE	DIAPHRAGM
WK VII	50-90	3.4-6.2	ALUMINUM	1-45	VITON®	DIAPHRAGIVI
мк ІІ	25-65	1.7-4.5	ANODIZED ALUMINUM	1-45	NEOPRENE VITON®	DIAPHRAGM

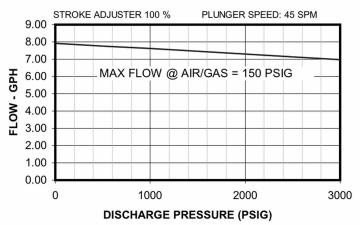


## **WILROY**

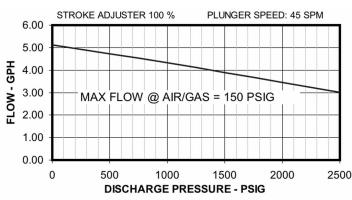
### Flow Performance Graph for Wilroy® 104

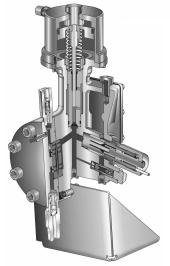


### Flow Performance Graph for Wilroy® 106



### Flow Performance Graph for Wilroy® 754





### **PART MODEL NUMBER**

Plunger

Configuration

WRB 1 - 11 104M NN SE BB

WRA 1: 316 SS | Model | Construction |

NN: None | Control | Method | Method

**2M:** .250" Plunger with 316 SS Micrometer Knob **5M:** .500" Plunger with 316 SS Micrometer Knob

**754:** .750" Plunger, 4" Air Cylinder w/ 316 SS Micrometer **104:** 1.000" Plunger, 4" Air Cylinder w/ 316 SS Micrometer

106: 1.000" Plunger, 6" Air Cylinder w/ 316 SS Micrometer

Selection BB: Base

Connections SE: NPT

2M: 1/4" NPT (F) Discharge, 1/4" NPT (M) Suction 5M: 1/4" NPT (F) Discharge, 1/2" NPT (M) Suction 754: 1/2" NPT (F) Discharge, 3/4" NPT (M) Suction 104: 1/2" NPT (F) Discharge, 3/4" NPT (M) Suction 106: 1/2" NPT (F) Discharge, 3/4" NPT (M) Suction

Diaphragm N Rupture Detection C

NN: None

**C5:** Rupture Detection Bracket & Gauge

SN: Rupture Detection Gauge & Nema 4 Switch

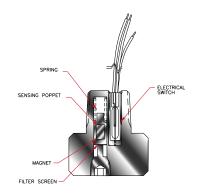
\$7: Rupture Detection Gauge & Nema 7 Switch

# WFS6704 MICRO FLOW SWITCH

For Detecting Increases & Decreases in Flow Rates



- Explosion Proof
   Class I, Division 1&2,
   Groups A, B, C, D
   Class II, Division 1&2,
   Groups E, F, G
- Fully Field Adjustable
- Operates in Any Orientation
- Miniature Compact Size
- Operating Temperature -40° F to +300° F (-40° C to +150° C)
- Operating Pressure 3000 PSIG (207 bar)
- Corrosion Resistant 316 Stainless Steel
- · Shock & Vibration Resistant
- 1/4" NPT Connections





DRUM GAUGES Liquid Level/Injection Rate Gauge				
MODELS	MATERIALS			
C779WS	Carbon Steel			
C779WS-V	Carbon Steel - Vented			
C779WS-SS	Stainless Steel			
C779WS-SS-V	Stainless Steel - Vented			
30216-CS-V-GPD-S	Carbon Steel			
30216-S6-V-GPD-S	Stainless Steel			

PCV125 AL Pressure Regulator			
SENSITIVITY	FLOW RATES	MAX. PRESSURE	
0.1 PSI	20SCFM	250 PSI	
0.689kPa	.566m3/min	1724 kPa	



AIR OR GAS DRYER-FILTERS Complete with Manual Drain Valve				
MODELS	FLOW RATES	MAX. PRESSURE		
J-150	40SCFM	150 PSI		
J-500	40SCFM	500 PSI		





LIQUID CHEMICAL FILTERS 316 Stainless Steel			
MODELS	CONNECTION FILTER ELEMENT	OPTIONAL FILTER ELEMENT	
LCF-10-25	1/4" NPT 25 micron, Std	1, 2, 8 microns or 100 mesh	
LCF-15-25	1/2" NPT 25 micron, Std	stainless steel screen	

AUTOMATIC DUMP VALVES Used with the Air or Gas Dryer-Filters				
MODELS	BOWL	MAX. PRESSURE		
ADV-150-A	Plastic	150 PSI		
ADV-250-A	Steel	250 PSI		





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