

# GAS VALVES

## 700 MILLIVOLT

The 700 millivolt gas valves are wall thermostat actuated combination gas valves. These controls combine a manual gas cock, automatic pilot safety valve and a millivolt operator. The automatic pilot safety is separate from the gas cock and provides gas shutoff in case of pilot outage. Regulated and non-regulated models are available (see ordering chart). Standard features include: pilot outlet, pilot gas filter and pilot adjusting key. VALVES CAN BE MOUNTED IN ANY POSITION EXCEPT UPSIDE DOWN. Consult ordering chart for individual control specifications.

### IMPORTANT WIRING INFORMATION\*

Most appliances manufactured in the USA and Canada are manufactured to meet the standards set forth by the American National Standards Institute (ANSI). A recent revision in the standards "mis-wiring requirements for gas valves" was effective January 1, 1996. The reason for this standard was so that you as a service technician could disconnect the gas valve wires and reconnect them without making a mistake. Therefore all Robertshaw millivolt gas valves now meet the new standard. The 700-500 series millivolt gas valves now have a 1/4" quick connect terminal and a 3/16" quick connect terminal on the terminal block. There is **NO** terminal screw (or threads) on the side that has the 3/16" terminal. If your old application used a terminal screw, you will need to use the 3/16" adaptor terminal that is included with this gas valve.

**NOTE: Will only work with two-lead thermopiles.**

**PRESSURE REGULATOR CONVERSION KITS ARE SHOWN ON PAGE C25.**

\* Does not apply to 700-502, 700-504 and 700-506 which still have the coaxial connection. (Manufactured after 9730 date code.)



700-502

### SPECIFICATIONS

Electrical rating	250 MV to 750 MV operating range factory set @ 3.5" W.C.
Pressure regulator (optional by model)	
Pilot outlet	1-1/4" tubing
Gas cock dial marking	off-pilot-on
Terminal type	1/4" spade
Ambient temperature	-40° to 175°F
Maximum inlet pressure	14" W.C. (1/2 PSI)

### ORDERING DATA

UNI-LINE ORDER NO.	FACTORY★ MODEL	INLET SIZE (FPT)	3 POSITION OUTLET		PRESSURE REGULATOR SETTING	CAPACITY <sup>1</sup>	REDUCER BUSHINGS INCLUDED (NPT)	
			STRAIGHT THRU (FPT)	SIDE (FPT) WITH PLUGS			3/4" x 1/2"	1/2" x 3/8"
700-501	7000AMV	1/2"	1/2"	1/2"	NONE *	100,000		2
700-502 □	7000AMVR	1/2"	1/2"	1/2"	3.5" W.C. NAT. GAS	100,000		2
700-503	7000BMV	1/2"	3/4"	1/2"	NONE *	240,000	1	
700-504 □	7000BMVR	1/2"	3/4"	1/2"	3.5" W.C. NAT. GAS	240,000	1	
700-505	7000BMV	3/4"	3/4"	STRAIGHT-THRU	NONE *	300,000	2	
700-506 □	7000BMVR	3/4"	3/4"	STRAIGHT-THRU	3.5" W.C. NAT. GAS	300,000	2	
700-507 †	7000BMVR-S7C	1/2"	3/4"	STRAIGHT-THRU	3.5" W.C. NAT. GAS	240,000	1	
700-508	7000BMVR	1/2"	1/2"	STRAIGHT-THRU	3.5" W.C. NAT. GAS	240,000		2
700-509	7000AMV	1/2"	1/2"	STRAIGHT-THRU	NONE *	100,000		
700-510	7000BMVR	3/4"	3/4"	1/2"	3.5" W.C. NAT. GAS	300,000	2	1
700-513 **	7010BGVMV	1/2"	1/2"	STRAIGHT-THRU	NONE *	240,000		2
700-514 **	7010BGVMV	1/2"	3/4"	1/2"	NONE *	240,000	1	
700-515	7000BMVR-LP	3/4"	3/4"	STRAIGHT-THRU	10.0" W.C. L.P. GAS	485,000	2	
700-517 **	7010BGVMV	3/4"	3/4"	1/2"	NONE *	300,000	2	
700-521	7000MVHC-S7C	1"	1"	STRAIGHT-THRU	NONE *	600,000		
700-522 †	7000MVRHC-S7C	1"	1"	STRAIGHT-THRU	3.5" W.C. NAT. GAS	720,000		
700-523 •	7000BGVMV	3/4"	3/4"	STRAIGHT-THRU	NONE*	300,000	2	
700-524 •	7000BGVMVR	3/4"	3/4"	STRAIGHT-THRU	3.5" W.C. NAT. GAS	300,000	2	

### POOL HEATER MODELS

700-511 ◆	7000BMVR-S7C	3/4"	3/4"	STRAIGHT-THRU	UNI-KIT ■	300,000	2	
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\* A separate pressure regulator may be required for the system.

Refer to field adaptable 1751 regulator kits on page C25.

\*\* Diaphragm valve only-no gas cock or safety magnet.

† Has slow opening feature for soft ignition.

• Diaphragm valve-no safety magnet.

◆ Excellent replacement for those hard-to-find Teledyne-Lars pool heater valves.

<sup>1</sup> 1000 BTU/Cu. Ft. 0.64 sp. gr. natural gas or 2500 BTU/Cu. Ft. 1.53 sp. gr. L.P. gas @ 1" W.C. pd.

★ See Factory Model Identification on page C12.

3-position Outlet Note

-1/2" x 1/2" NPT Models include (2) 3/8" NPT Reducer Bushings and (2) 1/2" NPT Plugs.

-1/2" x 3/4" NPT Models include 3/4" to 1/2" NPT Reducer Bushing and (2) 1/2" NPT plugs.

■ Factory set @ 3.5" W.C. Includes a separate L.P. Pressure regulator set at 11.0" W.C.

□ Has coaxial thermopile connection.

**EXCELLENT REPLACEMENTS FOR GAS VALVES . . .**  
**USE THE COMPETITIVE GAS VALVE CROSS-REFERENCE**  
**SHOWN ON PAGES C90-C112.**