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.

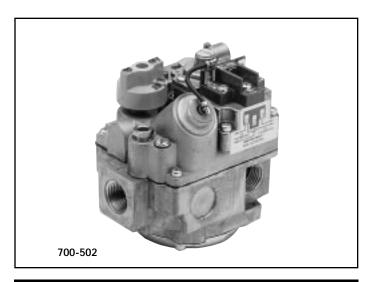
IMPORTANT WIRING INFORMATION*

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.)



SPECIFICATIONS

Electrical rating

Pressure regulator (optional by model) Pilot outlet Gas cock dial marking Terminal type Ambient temperature Maximum inlet pressure

250 MV to 750 MV operating range factory set @ 3.5" W.C.

> 1-1/4" tubing off-pilot-on 1/4" spade -40° to 175°F 14" W.C. (1/2 PSI)

ORDERING DATA								
UNI-LINE ORDER NO.	FACTORY★ MODEL	INLET SIZE (FPT)	3 POSIT STRAIGHT THRU (FPT)	ION OUTLET SIDE (FPT) WITH PLUGS	PRESSURE REGULATOR SETTING	CAPACITY ¹	REDUCER BUSHINGS INCLUDED (NPT) 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	

- 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.
- 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.