



INSTALLATION, OPERATING AND MAINTENANCE INSTRUCTIONS TYPE NO. 73 LEVER VALVE

APPLICATION/SERVICE:

The No.73 internally piloted valves are recommended where tight closing is essential. The NO.73 lever valve is designed to control the flow of liquid by an external power source. By reversing the linkage, the NO. 73 may be set to either open or close on level rise. These valves are best suited for clean liquids not injurious to iron, brass or neoprene.

MAXIMUM PRESSURE & TEMPERATURE LIMITS		
Pipe Size	Pressure	Temperature
½" and ¾"	130 ^{lb} /in ²	Standard neoprene disc is recommended for temps up to 125°F. Optional Teflon disc is available for temps from 125°F to 350°F
1"	100 ^{lb} /in ²	
1¼"	80 ^{lb} /in ²	
1½"	65 ^{lb} /in ²	
2"	50 ^{lb} /in ²	

CONSTRUCTION FEATURES:

Valve sizes through 1½" are available only with threaded ends and an integral seat. These sizes are supplied standard with bronze body and trim. The 2" size is available in both threaded and flanged end connections with a replaceable seat. This 2" size is supplied standard with a cast iron body and bronze trim. Other materials are available (consult factory). All sizes of these valves are available in either a **Globe** (straight through) or **Angle** (side inlet-bottom discharge) configuration.

INSTALLATION:

Thoroughly clean dirt, slag, etc. from both the valve body and inlet pipe. Install the NO. 73 lever valve wherever desired and arrange it to be operated by the NO. 20 float box, NO. 20M float mechanism, by hand or by another suitable means. It is recommended that you install both a strainer and a shutoff valve on the inlet side of these valves. The strainer will keep debris from clogging the internal ports of these valves and the shutoff valve will allow for easy access to the valve should it need to be removed. The direction of flow

through these valves should agree with the markings on the side of the valve body. These valves should be protected from freezing water both in the valve, and on the surface of the water.

START UP:

Open the upstream shut off valve gradually to permit the tank to fill slowly and to also allow time for the necessary adjustment of the float rod and linkage to obtain the desired maximum water level; then open the shut off valve completely. Precisely adjust the water level by changing the floats position.

TROUBLES AND REMEDIES:

Problem: Valve does not close tightly.

Solution: 1. Check the inlet pressure gauge. Do not exceed the maximum allowable inlet pressure shown. 2. Disassemble valve and clean the seat and disc. Check for wear and replace the valve disc if needed. 3. Check that the maximum temperature for disc material is not exceeded.

Problem: Valve sticks or leaks at stem.

Solution: Stem packing may be too tight. Repack and tighten the gland only finger tight.

Problem: Valve closes suddenly or chatters.

Solution: 1. Check the size of the valve against the capacity (GPM) needed. **Do not use an oversized valve.** It is recommended that a valve have between 50% to 100% more capacity than the normal demand. 2. Weighting the lever may slow the action.

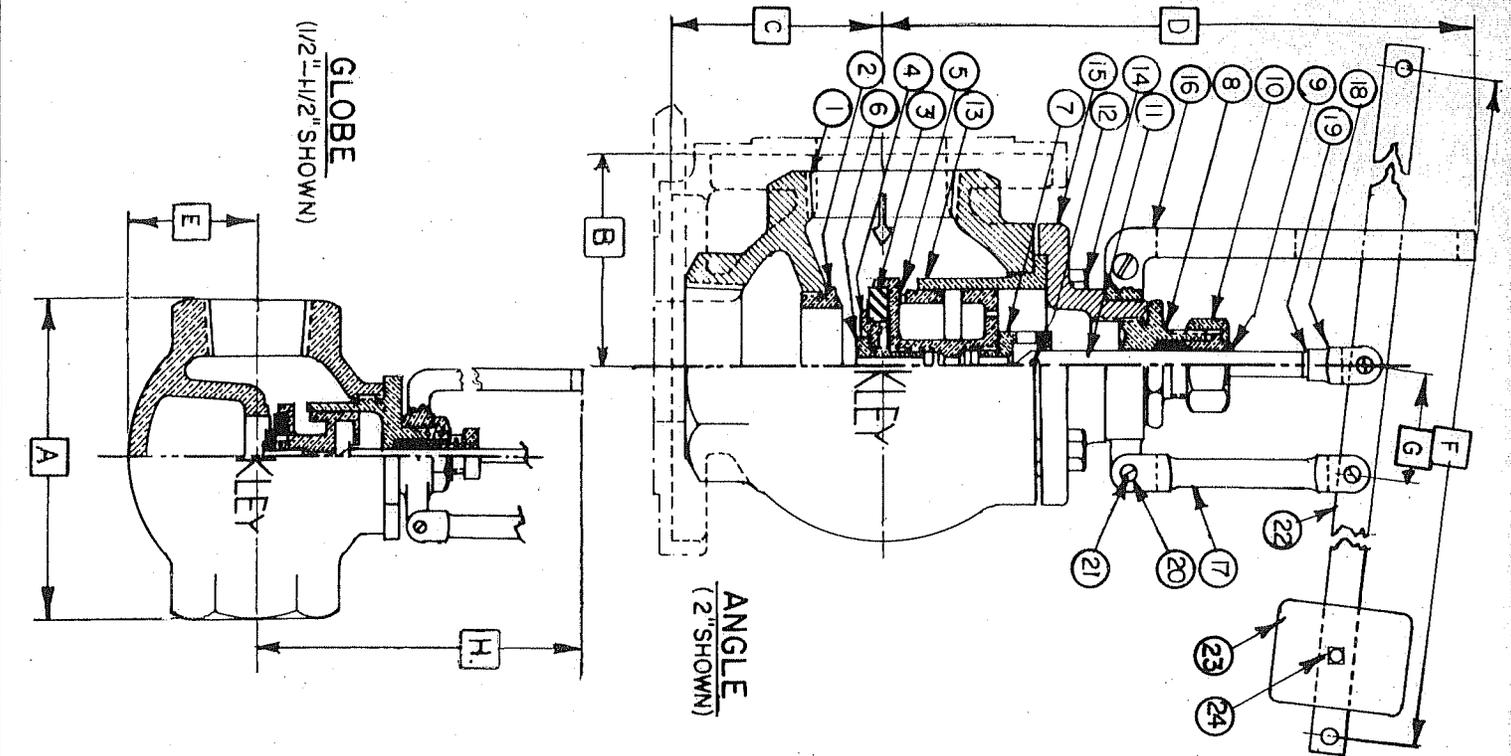
MAINTENANCE:

The operation and condition of the valve should be checked at regular intervals.

NOTES:
 * DENOTES INTEGRAL WITH BODY
 ** DENOTES NOT USED ON 1/2"-1 1/2"
 *** DENOTES INTEGRAL WITH TOP CAP.

AL 65057
 DRAWING NO.

NO.	PART NAME	QU.	MAT'L	QU.	MAT'L	NO.	PART NAME	QU.	MAT'L	QU.	MAT'L
1	BODY	1	BRZ.	1	C.I.	15	TOP CAP	1	BRZ.	1	C.I.
2	SEAT	—	*	1	BRZ.	16	YOKE	1	BRZ.	1	BRZ.
3	DISC	1	COMP.	1	COMP.	17	ARM	1	BRZ.	1	BRZ.
4	DISC PLATE	1	BRS.	1	BRZ.	18	CLEVIS	1	BRZ.	1	BRZ.
5	INNER VALVE	1	BRZ.	1	BRZ.	19	CLEVIS LOCK	1	BRS.	1	STL.
6	DISC NUT	1	BRS.	1	BRS.	20	PIVOT SCRS	3	STL.	3	STL.
7	PORT STUD	—	**	1	S.S.	21	PIVOT NUTS	3	STL.	3	BRS.
8	BONNET	—	***	1	BRZ.	22	LEVER	1	STL.	1	STL.
9	GLAND	1	BRS.	1	BRS.	23	WEIGHT	1	C.I.	1	C.I.
10	PACK'G NUT	1	BRS.	1	BRZ.	24	WT. SCREW	1	STL.	1	STL.
11	STEM	1	SST	1	SST						
12	LIFT PIN	1	SST	1	SST						
13	CYLINDER	—	***	1	BRZ.						
14	SCREWS	—	**	4	STL.						



DIMENSIONS

SIZE	A				B				C				D	E	F	G	H
	SCR	FLG	FLG	FLG	SCR	FLG	FLG	FLG	SCR	FLG	FLG	FLG					
1/2-3/4	4 1/4	125*	250*	—	2	—	—	—	2	—	—	—	6 5/8	1 1/2	17 1/8	1 1/2	6 13/16
1	5	—	—	—	2 1/8	—	—	—	2 1/8	—	—	—	6 1/8	1 11/16	17 1/8	1 1/2	7 3/8
1-1/4	5 1/8	—	—	—	2 1/8	—	—	—	2 1/8	—	—	—	6 3/8	1 5/8	17 1/8	1 1/2	7 9/16
1-1/2	5 1/4	—	—	—	2 1/4	—	—	—	2 1/4	—	—	—	6 7/8	2 1/8	17 1/8	1 1/2	7 13/16
2	7 5/8	8 1/4	8 3/4	3 7/8	4 1/8	4 3/8	4 1/2	3 7/8	4 1/8	4 3/8	4 1/2	9 1/8	2 7/8	20 3/4	2	11 1/4	

REVISIONS

8-22-78 ADDED H DIM'S.

O.C. KECKLEY COMPANY
 SKOKIE
 ILLINOIS

DIMENSIONAL ASSEMBLY

1/2"-2" # 73 LEVER VALVES

DRAWING NO.
AL 65057

PART NO.

SCALE: —

DATE: 9-24-65

PR BY: *[Signature]*

ADDED 'H' DIM.

8-22-78

INSTALLATION OPERATING AND MAINTENANCE INSTRUCTIONS

TYPE #773 LEVER VALVES

APPLICATION:

The 773 internally piloted valves are recommended where tight closing is essential. Each of these valves is available in either a **GLOBE** (straight through) or **Angle** (bottom inlet-side discharge) configuration. The No.773 lever valve is designed to control the flow of liquid by an external power source. These valves are best suited for clean liquids not injurious to neoprene, leather or brass.

PRESSURE AND TEMPERATURE LIMITS:

MAXIMUM PRESSURE & TEMPERATURE RATING		
Body Type	Pressure	Temperature
Cast Iron or Bronze (NPT)	250 #/in ²	125 ° F
Cast Iron (Std. Flange)	200 #/in ²	125 ° F
Cast Iron (Ex. Heavy Flange)	250 #/in ²	125 ° F

*optional high temperature teflon valve disc and cup are available for temperatures up to 350°F.

Note: Absolute minimum inlet pressure is 5 PSI on sizes from 2" to 6", and 10 PSI on 8" and 10"

INSTALLATION:

Thoroughly clean dirt, slag, etc. from both the valve body and inlet pipe. Install the No.773 lever valve wherever desired and arrange it to be operated by the No.20 float box, No.20M float mechanism, by hand or by another suitable means. It is recommended that you install both a strainer and a shut-off valve on the inlet side of these valves. The strainer will keep debris from clogging the internal ports of these valves and the shut-off valve will allow for easy access to the valve should it need to be removed. The direction of flow through these valves should agree with the markings on the side of the valve body. These valves should be protected from freezing water both in the valve and on the surface of the water.

START-UP:

Open the upstream shut-off valve gradually to permit the tank to fill slowly and to also allow time for the necessary adjustment of the float rod and linkage to obtain the desired maximum water level; then open the shut-off valve completely. Precisely adjust the water level by changing the floats position.

TROUBLES AND REMEDIES:

Problem: Valve does not close tightly

Solution: 1. Check and make sure that the minimum inlet pressure is met. 2. Disassemble valve and clean all inside surfaces including the disc and leather cup. Check for wear (replace worn parts as necessary). 3. Check that the maximum temperature for disc material is not exceeded.

Problem: Valve sticks or leaks at stem

Solution: Stem packing may be too tight. Repack and tighten the gland only finger tight.

Problem: Valve closes suddenly or chatters

Solution: 1. Check the size of the valve against the capacity (GPM) needed. Do not use an oversized valve. It is recommended that a valve have only between 50% to 100% more capacity than the normal demand. 2. Weighting the lever may slow the action.

Maintenance:

The operation and condition of the valve should be checked at regular intervals.



INSTALLATION, OPERATING AND MAINTENANCE INSTRUCTIONS

TYPE NO. 27 FLOAT VALVE & NO. 62 LEVER VALVE

APPLICATION/SERVICE:

The NO. 27 and NO. 62 double seated valves are recommended for continuous service applications where a tight closing is **not** essential. The NO. 27 is most commonly used to maintain a water level in a tank by means of the attached float linkage. The NO.62 lever valve is designed to control the flow of liquid by an external power source. By reversing the linkage, both the NO. 27 and NO. 62 may be set to either open or close on level rise.

MAXIMUM PRESSURE & TEMPERATURE LIMITS			
Pipe Size	Pressure	Pipe Size	Pressure
1/2" to 1"	150 #/in ²	4"	35 #/in ²
1 1/4"	120 #/in ²	5"	30 #/in ²
1 1/2"	100 #/in ²	6"	25 #/in ²
2"	75 #/in ²	8"	20 #/in ²
2-1/2"	60 #/in ²	10"	15 #/in ²
3"	50 #/in ²	12"	12 #/in ²

Maximum Temperature is 406°F for all sizes

CONSTRUCTION FEATURES:

In sizes 1 1/2" and smaller these valves have bronze bodies with integral seats are available with threaded ends only. In sizes 2" and larger, the standard bodies are cast iron with removable bronze seats. Threaded connections are available in sizes up to 3" and flanged connections are available in sizes 2" and larger. Other materials are available (consult factory). All sizes of these valves are available in either a **Globe** (straight through) or **Angle** (side inlet-bottom discharge) configuration.

INSTALLATION:

Thoroughly clean dirt, slag, etc. from both the valve body and inlet pipe. Install the NO. 27 float valve near the water level you wish to maintain with the valve stem in a vertical position; rotate the swivel guide yoke so that the float rests in calm water. Turbulence in the tank should be avoided, as it will proportionally decrease the working life of any moving parts. If turbulence exists, it may be necessary to extend the piping down from the discharge side to a point well below the lowest level of

water maintained. Stilling wells may also be used to dampen the effects of turbulence on the float. Install the NO. 62 lever valve wherever desired and arrange it to be operated by the NO. 20 float box, NO. 20M float mechanism, by hand or by another suitable means. It is recommended that you install both a strainer and a shut-off valve on the inlet side of these valves. The strainer will keep debris from clogging these valves and the shutoff valve will allow for easy access to the valve should it need to be removed. The direction of flow through these valves should agree with the markings on the side of the valve body. These valves should be protected from freezing water both in the valve, and on the surface of the water.

START UP:

Open the upstream shut off valve gradually to permit the tank to fill slowly and to also allow time for the necessary adjustment of the float rod and linkage to obtain the desired maximum water level; then open the shut off valve completely. Precisely adjust the water level by changing the floats position.

TROUBLES AND REMEDIES:

Problem: Valve leaks more than allowable.

Solution: 1. Check the inlet pressure gauge. Do not exceed the maximum allowable inlet pressure shown. 2. Disassemble valve and clean the seating surfaces. Check for wear and replace components as needed.

Problem: Valve sticks or leaks at stem.

Solution: Stem packing may be too tight. Repack and tighten the gland only finger tight.

Problem: Valve closes suddenly or chatters.

Solution: 1. Check the size of the valve against the capacity (GPM) needed. **Do not use an oversized valve.** It is recommended that a valve have between 50% to 100% more capacity than the normal demand. 2. Weighting the float may slow the action.

MAINTENANCE:

The operation and condition of the valve should be checked at regular intervals.

NOTES: ** DENOTES SEATS, INTEGRAL WITH BODY.
 *** DENOTES ON 2 1/2" & 4" GLOBE ONLY.
 *** DENOTES NOT USED ON 1/2" TO 1-1/2"
AL 65014
 DRAWING NO.

NO.	PART NAME	1/2" TO 1-1/2"			NO.	PART NAME	2" TO 12"			
		QU.	MAT'L	QU.			QU.	MAT'L	QU.	MAT'L
1	BODY	1	BRZ.	1	11	GASKET	—	***	1	NON ASB
2	SEATS	—	*	2	12	CAP SCREWS	—	***	AR	STL.
3	MAIN VALVE	1	BRZ.	1	13	PIVOT SCR'S	3	STL.	3	STL.
4	STEM	1	BRS.	1	14	CLEVIS	1	BRZ.	1	BRZ.
5		—	***	1	15	GUIDE YOKE	1	BRZ.	1	BRZ.
6	PACK'G BOX	—	***	1	16	GUIDE ARM	1	BRZ.	1	BRZ.
7	GLAND	1	BRS.	1	17	LEVER	1	STL.	1	STL.
8	PACK'G NUT	1	BRS.	1	18	WEIGHT	1	C.I.	1	C.I.
9	TOP CAP	1	BRZ.	1	19	WT. SCREW	1	STL.	1	STL.
10	BOTTOM CAP	—	***	—	20					

DIMENSIONS

SIZE	A				B				C				D	E	F	G
	SCR.	FLG.	FLG.	SCR.	FLG.	FLG.	FLG.	SCR.	FLG.	FLG.	FLG.	FLG.				
1/2 & 3/4	4	125*	250*	2	—	—	—	2	—	—	—	6	1	17	1 1/2	
1	4	—	—	2	—	—	—	2	—	—	—	6	1	"	"	
1-1/4	4	—	—	2	—	—	—	2	—	—	—	6	1	"	"	
1-1/2	4	—	—	2	—	—	—	2	—	—	—	6	1	"	"	
2	6	6	7	3 1/2	3 1/2	3 1/2	4 1/2	4 1/2	4 1/2	4 1/2	4 1/2	10	2	20	2	
2-1/2	7	8	8	3 1/2	4 1/2	4 1/2	5 1/2	5 1/2	5 1/2	5 1/2	5 1/2	11	4	"	"	
3	9	9	10	4	4	4	5 1/2	5 1/2	5 1/2	5 1/2	5 1/2	11	4	"	"	
4	9	10	11	5	5	5	6	6	6	6	6	12	5	"	"	
5	—	12	12	6	6	6	7	7	7	7	7	15	6	23	2	
6	—	13	13	6	6	6	8	8	8	8	8	16	7	"	"	
8	—	16	17	8	8	8	8	8	8	8	8	21	8	30	3	
10	—	20	21	10	10	10	10	10	10	10	10	22	9	"	"	
12	—	22	24	11	11	11	12	12	12	12	12	24	11	"	"	

INLET PRESSURES			
SIZE	MAX. SIZE	MAX.	
1/2"	150	3"	50
3/4"	150	4"	35
1"	150	5"	30
1 1/4"	120	6"	25
1 1/2"	100	8"	20
2"	75	10"	15
2 1/2"	60	12"	12

O. C. KECKLEY COMPANY

DIMENSIONAL ASSEMBLY

1/2" - 12" 62 LEVER VALVE

DRAWING NO.	AL 65014
PART NO.	
REVISED	9-13-71
DATE	5-7-65
DR. BY	<i>J. H. ...</i>

