



KP TWIN/PARTITION INSTALLATION INFORMATION

- Refer to drawing Ki039* & Standard Installation Instructions

Installation of valves should be in accordance with The Water Supply (Water Fittings) Regulations 1999 and BS6700:1997 Para. 2.2.4

Application

To ensure a continuous supply of potable (drinking) water, some installations feature one large cistern (tank) with a central partition or two smaller tanks connected in parallel. Both compartments are normally used with an interconnecting “Balance Pipe” and a central Draw-Off connection.

To minimise the risk of Legionellosis (Legionnaire’s Disease), it is desirable to ensure regular circulation through both tanks. For parallel installations this is achieved by filling both compartments/tanks simultaneously. When connected as shown (see Ki039*), both tanks will receive an equal flow - irrespective of which KB Pilot is open (“OR” logic).

Normal Installation

To avoid overflowing one tank, a large Balance Pipe **must** be fitted with a central take-off - i.e. the distance from the tank outlet to the draw-off pipe must be of equal diameter and length.

Likewise the Filling Pipes to each tank should be of identical “head loss” i.e. same diameter, length and fittings. It is advisable to leave a substantial distance (e.g. 150 mm) between the Closing Level (TWL) and the “Invert” (overflow level) of the Warning Pipe. This will allow for some imbalance in water levels between the tanks.

It is suggested that the Servicing Valves to both KB Pilot Valves be open. The Control Valve will open fully and fill both tanks when either or both KB Pilot Valve is open. The Opening Levels (LWL) and Closing Levels (TWL) would normally be set the same for each tank. The Pilot Lines need not be symmetrical.

Maintenance

One tank/compartments may be isolated for - cleaning, chlorinating or for any other reason. To isolate one tank, close all the valves relating to this tank - i.e. KB Pilot Servicing Valve, Filling Isolating Valve and the Outlet Isolating Valve. The flow rate into the functioning tank will increase. If this flow is excessive, throttle the flow with the main Servicing Valve or the Filling Isolating Valve.

Pipe Sizing

Since the flow from the Control Valve is divided into two, the Filling Pipe to each tank is smaller than the nominal size of the Control Valve. Unless requested otherwise, discharges will be sized as shown in Table 1.

Table 1

Control Valve DN mm	50	65	80	100	150	200
Control Valve Size inch	2”	2 ½”	3”	4”	6”	8”
Discharge Size inch	2 x 1 ½”	2 x 2 “	2 x 2”	2 x 3”	2 x 4”	2 x 6”
Drawing/Part Number For Discharge (Drawing available upon request)	2 x KP012*	2x KP001*	2 x KP001*	2 x KP003*	2 x KP004*	2 x KP005*



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Kit Contents

Unless specified otherwise, KP Twin kits contain the following parts –

Qty.	Description
1	Control Valve – complete with -
	• Closing Speed Valve (fitted)
	• Pilot Isolating Valve (fitted)
	• Drain Valve Downstream (fitted)
	• 15mm x 1/2" male Straight Coupler P902.15 (fitted)
2	3/4" KB Pilot Valves
2	15mm - 3/4" female Straight Coupler P903.14
2	Servicing Valve 15mm Spherical Compression (for Pilot Lines)
2	Discharge Assembly UPVC (see Table 1) – Complete with -
	• Full Face Flange PN16 BS4504 UPVC
	• Full Face Gaskets EPDM
	• Set of - Bolts, Washers, Nuts – All A2 Stainless Steel
1	Stub Flange UPVC (To mate with Control Valve Downstream)
1	Backing Ring BS4504 - Galvanised
1set	Bolts, Washers, Nuts – All A2 Stainless Steel (For Stub Flange)
1	Tee Plain UPVC (as nominal Control Valve size)
2	Reducing Bushes UPVC (Control Valve Nominal size – Filling Pipe size)
2 If applic.	Isolating Valves Double Union Spherical Plain UPVC for 1 1/2" - 8" Filling pipe.

Parts Not Supplied

Pilot Line – Requires 15 mm copper pipe
 Filling Pipes – Requires UPVC Class C (See Table 1. for size).
 Elbows, pipe clips, etc for above pipes.
 Any fitting upstream of the Control Valve
 Any outlet fitting from tank

Special Applications

The KP Float valve concept can be tailored to suit most applications. Please contact Keraflo Ltd if extra parts or alterations are required.

ATTACHED DRAWINGS	
Ki039F	Aylesbury KP Type Twin/Partitioned Tanks

