

General information

Double-seated pipe line valve with spindle for use in surface waters, sewer systems and aggressive liquid systems.

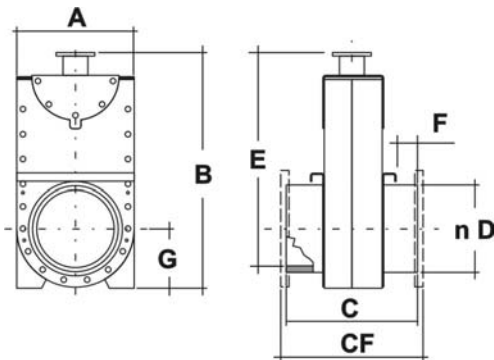
The valve product is available to match the following pipe connections :

- Ends for thermally welded connections/joints.
- Ends for connecting to an HDPE pipe or a uPVC pipe using double couplers,
- Chamfered pipe ends for insertion in a concrete pipe or a SPIROsol pipe using socket cement.
- HDPE flanges with flange drilling PN10.

Opening : Ø 100 thru Ø 500
 Operating pressure : double-seated, 10 mwc as standard
 (test pressure 20 mwc)
 Lifting mechanism : non rising spindle
 Point of control : **KWT** connection (half moon)
 Actuation : both hand wheel operated and electric actuation.
 Spindle extension : **KWT** spindle extension with a protection tube establishment.

Material :

Lifting blade / Displacer : stainless steelgrade 316L
 Spindle : stainless steel 316
 Wire block : POM
 Bearing : OLG
 Housing : HDPE
 Seal material : EPDM



DN	nD	A	B	C	CF	E	F	G	Revs.	Nm.	Kg
100	110	220	442	380	400	380	84	110	20	30	14
125	125	235	471	400	420	409	94	117,5	22	30	15
150	160	270	839	440	460	475	114	135	28	30	19
200	200	310	617	440	470	550	114	155	34	30	24
250	250	360	714	470	500	645	130	180	42	30	32
300	315	425	840	480	510	767	132	212,5	52	30	43
400	400	510	1005	610	640	927	199	255	65	30	64
500	500	610	1200	640	670	1117	214	305	83	30	90

Revs. = Number of spindle revolutions from open to closed position. (at 30 Nm)

Higher pressures, larger dimensions and other materials on request.

Mounting instructions

Make sure to fit the unit without creating stresses and strains ; this implies... :

- Above ground : Using supports.
- In the soil (not subjected to traffic action) on and in a stabilised sand bed.
- Under a road surface, (subjected to traffic) on and in a stabilised sand bed covered by a 2x2 m concrete slab with a surface box.

Standard operation is with the purpose-built **KWT** T-key.

Once the fitting is completed, check the assembly for leaks and for correct operation first and then cover it up when under ground.

General

All parts are designed by KWT engineers and typically produced and tested at the company's own plant. Bought-in goods are often manufactured to **KWT's** drawings and specifications ; any dies are owned by **KWT**. That means that it is almost always possible to repair or replace any part **even after 10 years**.

Storage requirements

- Store fittings under stable conditions, dust-free, frost-free and avoid wide variations in temperature.

Safety

- Provide the construction site with protection.
- Statutory and local regulations must be complied with.
- Use only approved equipment and have them commissioned or operated by trained staff.
- Wear appropriate, approved and statutory and locally determined Personal Protective Equipment (PPE).
- Always use the right tool.

Take care...

- of body parts becoming trapped.
- not to fall or slip on the site.
- of electrical wiring during assembly and servicing.
- of electrocution.
- Report unsafe situations and defects immediately to the responsible persons.

Assembly

- Only qualified staff should assemble the fitting.
- The assembly site must be clean, dry and gas-free.
- You must not stand under the fitting during lifting.

Use

- Allowing the fitting to be operated by an untrained person is dangerous for the operator and people in the vicinity and may result in damage to other objects.

The fittings are made of durable materials like

SS 304, SS 316, (stainless steel), HDPE (high-density polyethylene), POM (polyacetal) and bronze.

It is recommended that you regularly operate your fitting completely up and down and check it is working properly based on the degree of contamination, aggressive environment and the number of movements made by the movable parts.

After the fitting is in place it is recommended that periodic visual inspections be conducted, taking into account the following points and conducting maintenance where needed. (Double check that the power to the motor is switched off when servicing motor operation.)

- Movable (rotating) and closable parts.
- Piles of sand in front of or behind the fitting.
- Piles of waste in front of or between the movable parts (branches, reeds, plastic etc), ice.
- The operating torque. Torque loading must **never** exceed the maximum permitted operating torque.
- Too much play on movable parts.
- Leaks in the seals.
- Electromotors and reducers.
- Solar panels and locks.

Points for attention

- Replace the rubber seal if damaged.
- Replace both spindle and spindle wire block if either needs replacing due to wear and tear.

Greasing

The use of a highly adhesive, spun grease is recommended.

* *Recommended: Fin Grease LS2 van Interflon.*

- Thoroughly clean the parts and remove old grease before use.
- Grease bronze spindle wire block through block-mounted grease nipple.
- Apply a thin layer of grease for open greasing (metal on metal).
- **Never grease** the **POM** (polyacetal) wire block, only clean it.

Troubleshooting

DEFECT	CAUSE	REMEDY
1 Leak between frame and mounting face	1a Mounting face not level. 1b Rubber seal not affixed properly. 1c MS Polymer kit bead not applied properly.	1a Level wall to NEN 6722, Dec 2002, Art 16.2 1b Replace sealing rubber in accordance with Assembly instructions. 1c Replace MS Polymer kit in accordance with Assembly instructions.
2 Leak between frame and bolt / valve	2a Rubber seal damaged. 2b Dirt between rubber seal and bolt. 2c Rubber seal does not touch plate. 2d Change of application specification.	2a Replace sealing rubber. 2b Remove dirt. 2c Check to see if frame warped or misshaped underground. 2d Contact your supplier.
3 Torque loading is too high.	3a Wall not level. 3b Spindle/wire block dirty or damaged. 3c Dirt between seal and bolt. 3d Spindle extension : consoles not in line. 3e Adjusting bolt too tight.	3a Level wall to NEN 6722, Dec 2002, Art 16.2 3b Clean or replace spindle/wire block. (in event of wear and tear, replace both). 3c Remove dirt. 3d Replace consoles in accordance with Assembly instructions. 3e Loosen adjusting bolts.
4 Rubber seal is damaged.	4a Exterior mechanical damage. 4b Wear and tear	4a Remove the cause of the damage. 4b Replace sealing rubber.

Contact our service department if you have any queries or problems with your **KWT** fittings.