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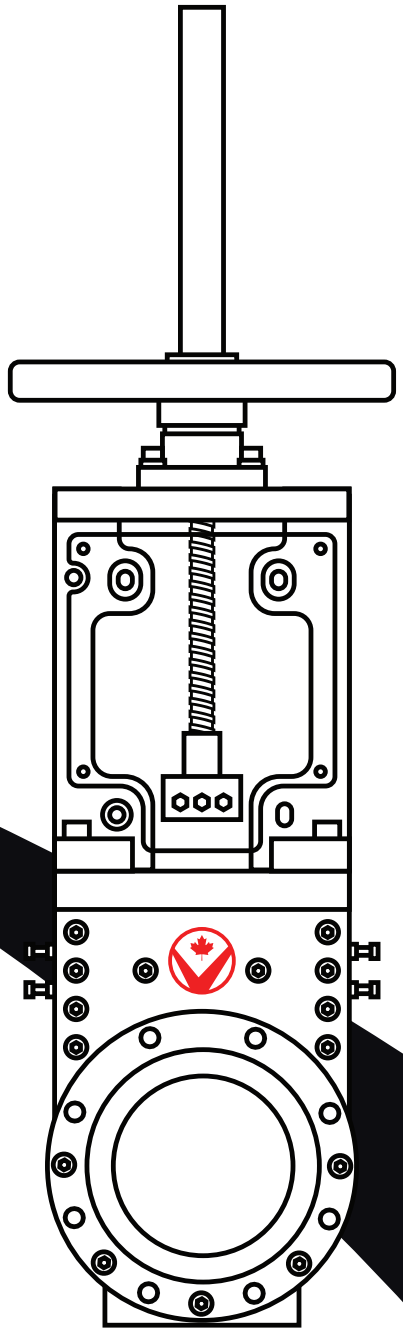


E5600/E6600/E7600
DBB5600/DBB6600
High Performance KGV

Installation, Operation, & Maintenance Manual

Customized valve solutions for the toughest applications.

Safety First!

Safety messages in this manual are identified by the following:

= Danger!

Failure to heed the following warning or instruction could result in injury or death.

= Attention!

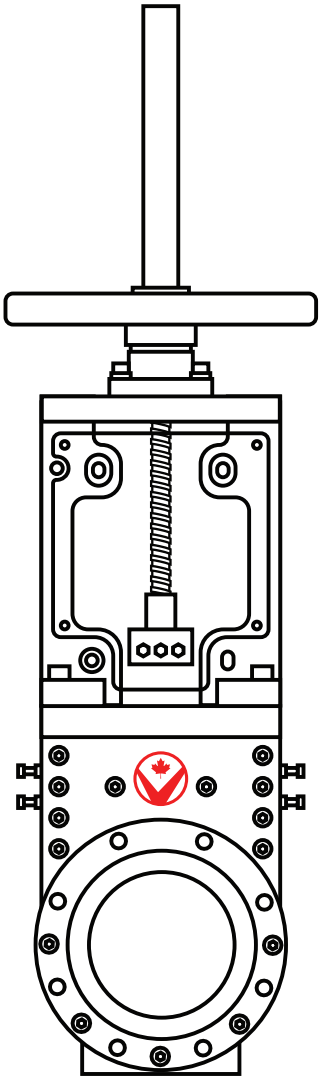
Failure to follow this procedure could result in equipment damage or injury.

Disclaimer

- Safety precautions should be taken at ALL times when working with industrial valves. Transportation, installation, commissioning and maintenance actions should only be carried out by skilled professionals with the qualified experience required for using the appropriate tools and equipment involved. Proper understanding of relevant procedures, processes, applications, and valve operation are required.
- Personnel involved in the installation or maintenance of valves should always be aware of the potential emission of process material and should take all necessary safety precautions. Always wear the required personal protective equipment when dealing with any hazardous materials. Always handle valves that are removed from service with the assumption that process material remains within the valve.
- The correct Personal Protective Equipment (PPE) should be worn at all times when working with industrial valves. This may include, but not be limited to, protective footwear, hard hats, safety glasses, and high-visibility clothing.

Material or design suggestions provided by Elite Valve, either directly or indirectly through product quotation or sale, are solely for general information purposes. Technical and any other necessary review by the customer is expected, and it is ultimately the responsibility of the customer to determine product suitability and application based on the customer's own needs and criteria. Elite Valve and its employees assume no liability in this regard.

Elite Valve reserves the right to make design and material changes without notice or obligation. Design features and materials of construction as described in this manual are for informational purposes only.



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Introduction

This manual is intended for use by personnel involved with the transportation, storage, installation, operation, or maintenance of Elite Valve knife gate valves.

Inspection

Elite Valve products are carefully packaged to provide maximum protection during shipment. Upon receipt, carefully inspect the product for damage and notify your carrier of any issues.

Storage

If valves are not to be installed upon receipt, then it is recommended that the valve be stored in the original factory packing in a clean dry warehouse until ready for installation. Ensure all valves have flange covers installed protecting serrated finishes and valve internals. If storage is longer than 6 months, please refer to our Long Term Valve Storage and Preservation Manual for more details.

Transportation

It is safest to transport the valves on the skid or crate originally supplied. Use proper lifting straps that are in good condition to safely lift the valve. (See Figure-1: Typical lifting strap locations.)

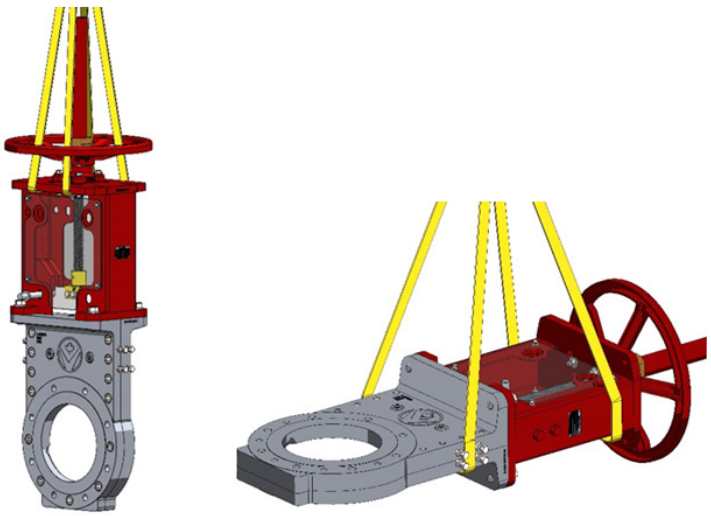

Figure 1 - Typical Lifting Strap Locations

⚠ Some large diameter valves come with tapped hole locations in the yoke and body. Unless reviewed and approved by Elite Valve, these tapped holes are NOT to be used for lifting the entire valve assembly.

⚠ Do not lift by eyelet on the end of pneumatic or hydraulic cylinders (if present).

⚠ Do not attach ropes or hooks to the handwheel of electric actuators for the purpose of lifting.

Pre-Installation

Actuators should be mounted and tested prior to installation to ensure correct functionality.

⚠ Check the valve identification tag for materials, and operating pressure to be sure they are correct for the application.

⚠ Check the flange type/rating of the valve and ensure they are compatible with the size/type of pipeline flanges.

Ensure flange bolts (or studs and nuts) are the correct size, thread, length, and grade for the application. Refer to appropriate valve drawing for thread dimensions.

Ensure the pipeline is correctly aligned and correct any misalignments prior to installation. Misaligned pipelines can create stress on the valve body causing premature wear.

Remove any foreign material such as dirt, scale, oil, grease, or weld spatter from the valve and pipeline flange faces before installation.

Ensure the sealing edge of the gate and valve seat are clean.

Installation

⚠ Elite Valve recommends that installation is performed by qualified technicians only.

Elite Valve recommends that valves (ideally) be installed with a minimum of six pipe diameters upstream and four pipe diameters downstream from any other valves, pumps, elbows, or fittings.

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Spread the pipeline flanges to allow enough space for the valve to be inserted without contact.

Insert the valve between the flanges ensuring the seat faces are not damaged while inserting the valve.

Observe the following during installation:

⚠ Select the correct length of flange bolts for blind holes in chest area of the valve so they do not bottom out when tightened. Elite Valve strongly recommends using threaded studs for these locations.

⚠ Consult the gasket and hardware manufacturer regarding any factors that should be allowed for when torquing the flange bolts.

⚠ Do not over torque. If flange bolts are over torqued, this can result in the valve failing to operate due to gate misalignment.

- Tighten the flange bolts evenly in a crisscross pattern. Do not exceed the values for bolt torque found in Table 1 - Maximum Flange Bolt/Stud Torque
- When bolting the valve in-line, we recommend only tightening to 75% of the maximum flange bolt torque. Complete final torquing after process start-up or as required for gasket leaks etc.
- Maintain alignment of the mating pipeline flanges at all times during installation.

E5600/DBB5600 – Class 150

ASME B16.5 (2” – 24”)
ASME B16.47 Series A (26” – 48”)

Valve Size (in)	Bolt/Stud Thread	Stud Length (in)	Number of Bolts	Max Torque (lbs-ft)
2	5/8”-11	3.0	4	80 - 90
3	5/8”-11	3.0	4	80 - 90
4	5/8”-11	3.5	8	100 - 110
6	¾”-10	3.5	8	130 – 150
8	¾”-10	3.5	8	130 – 150
10	7/8”-9	4.0	12	220 - 230
12	7/8”-9	4.0	12	220 - 230
14	1”-8	4.5	12	320 – 340
16	1”-8	4.5	16	320 – 340
18	1 1/8”-8	5.0	16	450 - 470
20	1 1/8”-8	5.0	20	450 - 470
24	1 ¼”-8	5.5	20	650 - 670
26	1 ¼”-8	6.5	24	650 - 670
28	1 ¼”-8	6.5	28	650 - 670
30	1 ¼”-8	6.5	28	650 - 670
32	1 ½”-8	7.0	28	1000 - 1075
36	1 ½”-8	7.5	32	1000 - 1075
42	1 ½”-8	8.5	38	1000 - 1075
48	1 ½”-8	9.0	44	1000 - 1075

Table 1 - E5600/DBB5600 Maximum Flange Bolt/Stud Torque

For Reference Only: Please consult gasket manufacturer regarding required torque values.

E6600/DBB6600 – Class 300

ASME B16.5 (2” – 24”)
ASME B16.47 Series A (26” – 48”)

Valve Size (in)	Bolt/Stud Thread	Stud Length (in)	Number of Bolts	Max Torque (lbs-ft)
2	5/8”-11	3.0	8	110 – 120
3	¾”-10	3.0	8	150 – 170
4	¾” -10	3.5	8	180 – 200
6	¾”-10	3.75	12	180 – 200
8	7/8”-9	4.25	12	265 – 275
10	1”-8	4.75	16	320 – 350
12	1 1/8”-8	5.5	16	450 – 470
14	1 1/8”-8	5.5	20	450 – 470
16	1 ¼”-8	6.0	20	650 – 670
18	1 ¼”-8	6.0	24	650 – 670
20	1 ¼”-8	6.5	24	650 – 670
24	1 ½”-8	7.5	24	1200 – 1250
26	1 5/8”-8	8.0	28	1400 – 1450
28	1 5/8”-8	8.5	28	1400 – 1450
30	1 ¾”-8	9.0	28	1700 – 1775
32	1 7/8”-8	9.0	28	2000 – 2075
36	2”-8	10.0	32	2300 – 2380
42	1 7/8”-8	10.0	38	2400 – 2480
48	1 7/8”-8	10.0	44	2400 – 2480

Table 2 – E6600/DBB6600 Maximum Flange Bolt/Stud Torque

For Reference Only: Please consult gasket manufacturer regarding required torque values.

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E7600 – Class 600

ASME B16.5 (2" – 24")
ASME B16.47 Series A (26" – 36")

Valve Size (in)	Bolt/Stud Thread	Stud Length (in)	Number of Bolts	Max Torque (lbs-ft)
2	5/8"-11	4.3	8	110 – 120
3	¾"-10	4.3	8	150 – 170
4	7/8"-9	5.0	8	225 – 240
6	1"-8	5.5	12	310 – 330
8	1 1/8"-8	6.0	12	450 – 470
10	1 ¼"-8	6.5	16	650 – 670
12	1 ¼"-8	7.5	20	650 – 670
14	1 3/8"-8	7.5	20	820 – 840
16	1 ½"-8	8.0	20	1125 – 1145
18	1 5/8"-8	8.0	20	1430 – 1450
20	1 5/8"-8	8.5	24	1430 – 1450
24	1 7/8"-8	10.0	24	2230 – 2250
26	1 7/8"-8	11.0	28	2230 – 2250
28	2"-8	11.5	28	2300 – 2330
30	2"-8	12.0	28	2360 – 2380
32	2 ¼"-8	12.0	28	3900 – 3930
36	2 ½"-8	13.5	28	5500 – 5530

Table 3 – E7600 Maximum Flange Bolt/Stud Torque

For Reference Only: Please consult gasket manufacturer regarding required torque values.

Vertical Installations

If an actuated valve is to be installed in a vertical pipe, the weight of the actuator can cause the valve to become stressed and result in gate misalignment. Due to the actuator's weight, it must be supported externally to prevent valve gate and cylinder rod misalignment. A pneumatically actuated valve is shown for illustrative purposes, but these guidelines should be followed for pneumatic, hydraulic or electrically actuated valves.

For any application regarding hoppers, or the transfer of solids or powers, the use of purge ports may be required to reduce the possibility of material bulid-up. Please contact Elite Valve to disscuss the application and potential solutions.

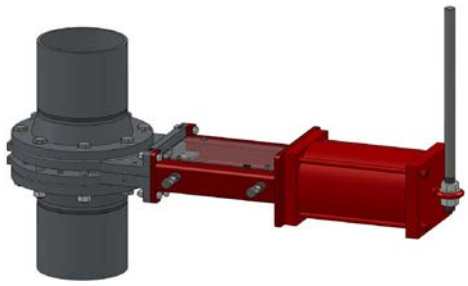

Figure 2: Example of KGV in vertical installation

Limit Switches

If the valve is equipped with yoke mounted limit switches and targets, ensure sensor and target are aligned to provide accurate feedback of valve position. Alignment adjustments can be made by positioning the sensors and target in their slotted mounting holes. Please refer to the appropriate proximity sensor documentation for details regarding setup and sensing gap.

Figure 3 - Example of correct limit switch and target installation for valve closed indication

Operation

⚠ If the valve is supplied with a lock-out pin, it may be installed when delivered. The lock-out pin must be removed before actuating/operating the valve.

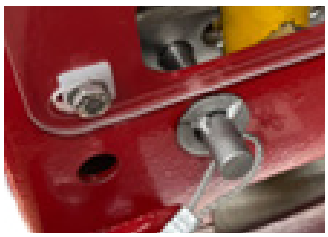

Figure 4: Lock out pin installed in fully-closed position

Figure 5: Lock-out pin removed

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Manual Operators

The gate is manually positioned by the valve's handwheel, gear box operator, or a chainwheel attached to gear box for overhead installations.

⚠ If over-travel occurs when opening the gate (gate loses contact with seals or packing), the bottom of the gate could get caught on top of the seal/packing and cause considerable damage upon closing (e.g. bending the gate, crushing the seal/packing, etc.). For this reason, there should be no adjustments made to the pre-set gate travel.

Actuated Valves

Valves may also be actuated by a pneumatic, or hydraulic cylinder, or by an electric actuator. For details regarding actuator operation, please consult the appropriate actuator manual.

Routine Maintenance

❗ When working on, or maintaining process valves, personnel should always be aware of the potential emission of process material and should take all necessary safety precautions. Always wear the required personal protective equipment when dealing with any hazardous materials. Always handle valves with the assumption that process fluid remains in the valve.

While there are no regular maintenance requirements for the E5600/E6600/E7600, Elite Valve recommends performing the following periodic checks:

- A visual inspection of the valve to assess condition and identify any leaks at the flange connection or packing/seal
- Verify flange bolting is tight
- Check actuator connections and condition to ensure reliable operation
- Test operate the valve (if possible) to ensure it is unrestricted

Lock-out Pins

❗ **Lock-out pins should be utilised along with the correct Lock-Out-Tag-Out procedures before any maintenance is performed.**

Lock-out pins are normally tethered to the valve yoke for convenience. When the valve is in the fully open or fully close position, insert the lock-out pin through both sides of the yoke ensuring that it passes through the appropriate hole in the valve gate. Apply lock-out tag/cable to the end of the pin while the valve is out of service.

Lubrication

Some knife gate valves equipped with hand wheel operators have a grease fitting for the threaded drive bushing. This fitting may require periodical lubrication depending on the frequency of valve operation. If the valve is more difficult than normal to turn, apply grease using the installed fitting to reduce the torque required.

Figure 6 - Grease fitting location for Handwheel operator.

Transverse Seal Adjustment

❗ When working on, or maintaining process valves, personnel should always be aware of the potential emission of process material and should take all necessary safety precautions. Always wear the required personal protective equipment when dealing with any hazardous materials. Always handle valves with the assumption that process fluid remains in the valve.

The E5600/6600/7600 series utilizes dual, transverse seals in the body of the valve that seal against the gate to prevent process leakage. The transverse seals are contained within slots in the valve body and are compressed by the gate.

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The transverse seals also have an integrated scraper that helps remove material from the gate face to protect the integrity of the transverse seal. A PTFE 'energizer' (paste) is injected behind each of the transverse seals to ensure that the seal integrity is maintained against the gate face.

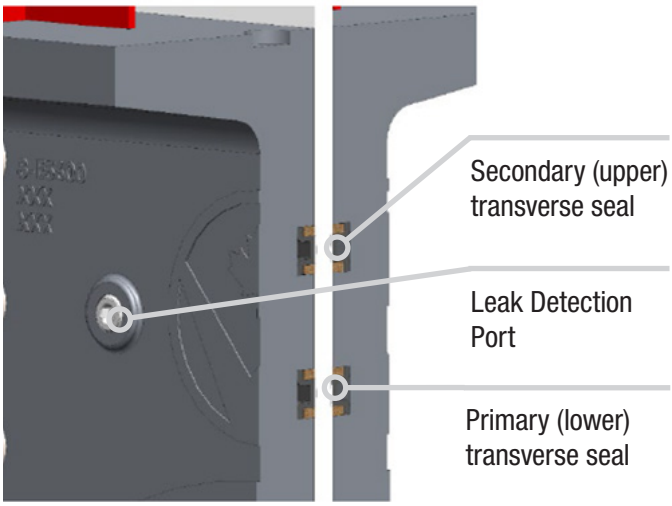

Figure 7 - Transverse Seals and Leak Detection Port

While there are no regular maintenance requirements for the E5600/E6600/E7600, Elite Valve recommends performing the following periodic checks:

- A visual inspection of the valve to assess condition and identify any leaks at the flange connection or packing/ seal
- Verify flange bolting is tight
- Check actuator connections and condition to ensure reliable operation
- Test operate the valve (if possible) to ensure it is unrestricted

The E5600/E6600/E7600 has two sets of transverse seals to offer increased reliability. The primary (lower) seals are typically the only seals required to ensure positive gate sealing. The secondary (upper) seals are effectively a 'back-up' seal that can be utilised if the primary seals are compromised, so that the valve can remain in service until maintenance can be performed. In these situations, the secondary (upper) seals are not adjusted to provide a positive seal so that any leakage past the primary seals can be easily detected.

In some applications, it may be desirable to utilise both sets of seals to ensure positive sealing. For these situations, the 'leak detection port' can be used to inspect and check the integrity of the primary seals.

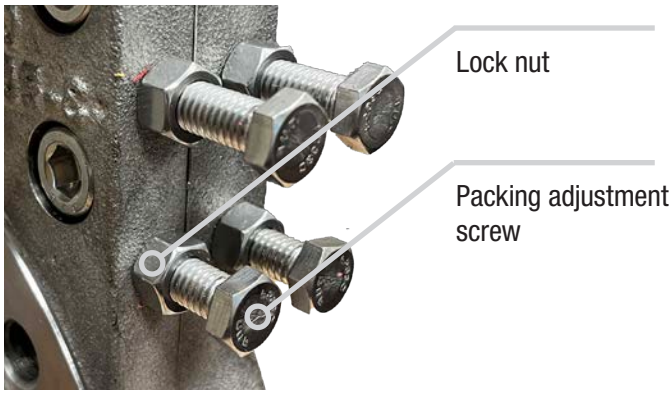

Figure 8 - Packing adjustment screws and lock nuts

If process fluid is leaking past the secondary (upper) transverse seal, begin by tightening the primary (lower) seal packing adjustment screws on both sides of the valve body, just enough to stop the leak.

To stop process fluid leaking past transverse seals:

- Loosen the lock nuts (both sides) for the appropriate transverse seal
- Tighten each packing adjustment screw ½ turn until the leak stops
- Tighten another ½ turn each
- Tighten the lock nuts to prevent the bolt from backing off

⚠ Do not compress the packing more than is needed to stop leaks. Over-tightening the packing adjustment screws will cause excessive operating forces, decrease the life of the seal, and may prevent the valve from operating correctly.

If there is no longer any adjustment available on the primary (lower) packing adjustment screws, and leakage

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is still detected, perform the same procedure for the secondary (upper) seal. Once this situation occurs, it is recommended that valve maintenance be performed as soon as possible to replace the primary seals.

Wear Rings

The E5600/E6600/E7600 may be configured with wear rings manufactured from a hardened or coated material to provide increased reliability on aggressive or abrasive applications. Elite Valve recommends that the wear rings be periodically inspected and assessed. If sufficient erosion has occurred, the wear ring should be replaced.

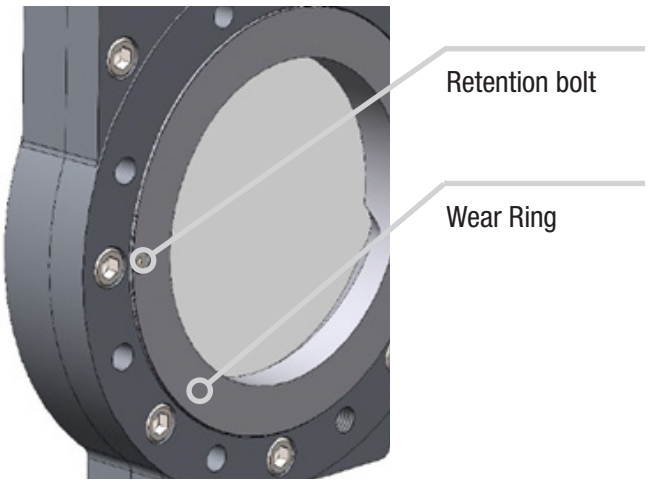

Figure 9 - Full bore, non-rotatable seat ring

Rotatable Wear Rings

The E5600/E6600/E7600 may also be configured with rotatable wear rings manufactured from a hardened or coated material to provide increased reliability on aggressive or abrasive applications. Elite Valve recommends that the wear rings be periodically inspected and assessed. If sufficient erosion has occurred, the wear ring may be rotated 120 degrees before being returned to service. Once sufficient wear has occurred, the wear ring can be replaced.

To rotate the wear ring:

- Ensure valve is clean and clear of debris
- Place a mark at the 6:00 position of the wear ring
- Remove any locator/retention bolts
- Remove the wear ring
- Rotate 120 degrees and replace wear ring
- Replace and locator/retention bolts
- Repeat for other side

Figure 10 - Rotatable/replacable wear ring

Removal from Service

When working on, or maintaining process valves, personnel should always be aware of the potential emission of process material and should take all necessary safety precautions. Always wear the required personal protective equipment when dealing with any hazardous materials. Always handle valves with the assumption that process fluid remains in the valve.

If the valve is required to be removed from service, be sure to verify the following conditions and follow any relevant site requirements and procedures:

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If the valve is required to be removed from service, be sure to verify the following conditions and follow any relevant site requirements and procedures:

- Loosening flange bolts on a pressurized valve can cause the release of fluids in the pipeline. Relieve pipeline pressure before loosening flange bolts to avoid causing injury or damage to the pipeline.
- Do not remove the operator or actuator from the valve while the line is under pressure
- Identify the pipeline media and ensure the correct PPE is utilized to protect against hazardous/toxic/flammable materials
  - Ensure the line is depressurized and drained
  - Place the valve in open position
- The accidental operation of a valve actuator can cause injury or damage. Ensure any powered actuators are correctly disconnected and locked out prior to removing the valve from service.
  - If the valve is actuated (pneumatically, hydraulically or electrically) follow procedures from the actuator manual to correctly disconnect and lock-out the actuator to prevent injury or damage caused by accidental operation
  - Remove flange bolts and spread the pipeline flanges
  - Remove valve from pipeline

Troubleshooting

If you are experiencing performance issues with this valve, please refer to the matrix below. If the issue is still unresolved, please reach out to your distributor for assistance or contact the factory for support.

Symptom	Possible Causes	Action
Process fluid is leaking past the secondary (upper) transverse seals.	Primary (lower) transverse seal packing is not sufficiently energised.	Tighten all primary (lower) packing adjustment screws ½ turn at a time until leak stops. Tighten another ½ turn each.
	Primary (lower) transverse seal is worn or damaged.	Replace seals and check gate for galling/damage. Replace gate if necessary.
Process fluid is leaking past the secondary (upper) transverse seals and no more adjustment is available for packing adjustment screws on primary (lower) transverse seals.	Primary (lower) transverse seal is worn or damaged.	Tighten all secondary (upper) packing adjustment screws ½ turn at a time until leak stops. Tighten another ½ turn each. Perform valve maintenance as soon as possible to repair primary (lower) seals.
Valve leaks downstream when fully closed.	Seat is damaged or worn.	Replace seat and check gate edge for damage. Replace gate if necessary.
Valve will not close.	Actuator disconnected from power source.	Check actuator power source.
	Valve is jammed due to gate misalignment.	Consult factory. Replace or repair valve.
	Valve is jammed due to material build-up or gate misalignment.	Remove material build-up. If valve still does not close, consult factory. Replace or repair valve.
Valve will not open.	Actuator disconnected from power source.	Check and restore actuator power source.
	Gate is disconnected from stem/cylinder.	Consult factory. Replace or repair valve.
	Valve is jammed due to material build-up or gate misalignment.	Remove material build-up. If valve still does not open, consult factory. Replace or repair valve.

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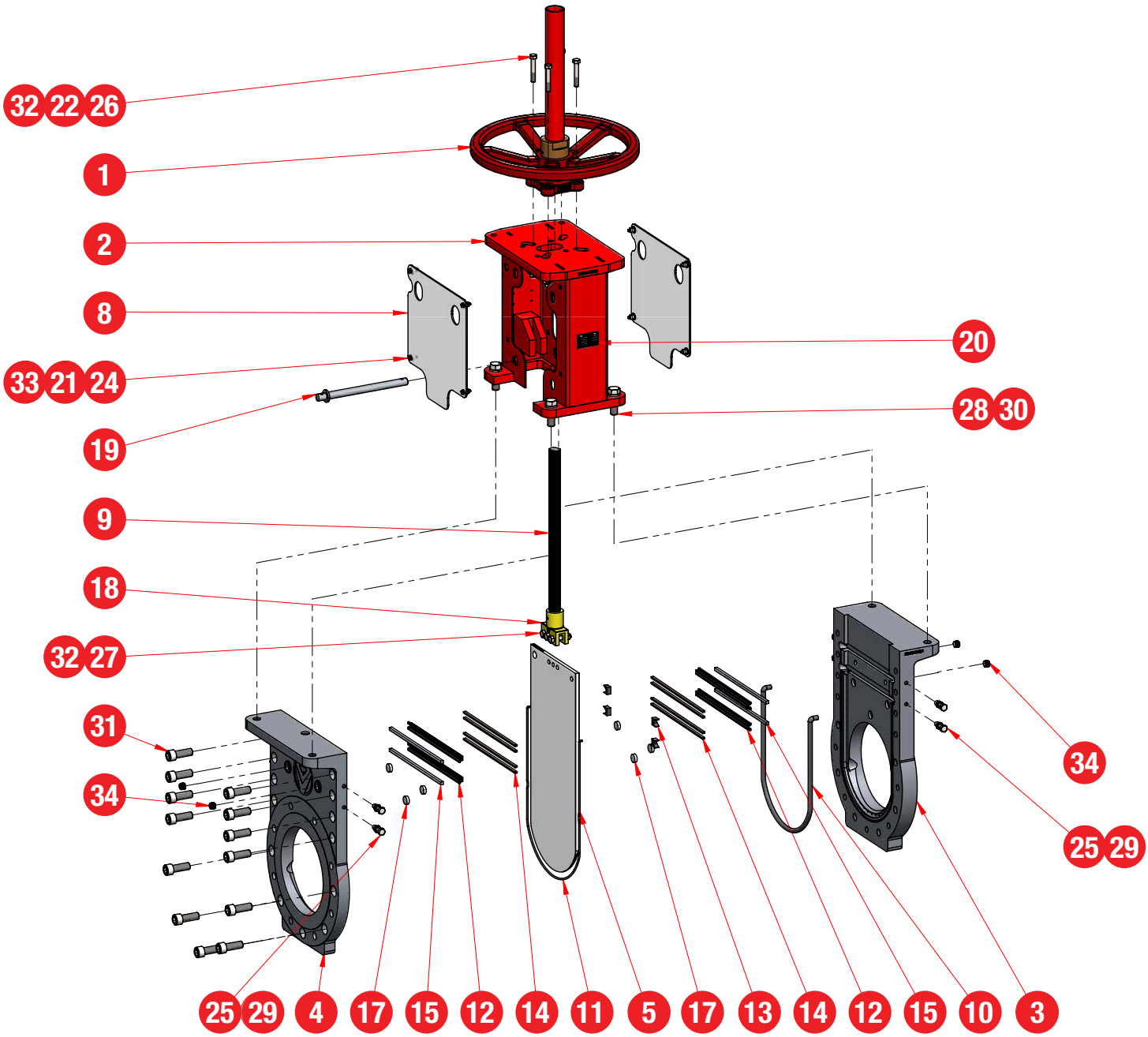
E5600: Exploded View

Typical parts breakout.
8" E5600 Class 150 displayed.



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E5600: Materials

Materials			
Item Number	**Part Number**	**Description**	**Qty**
1	OPHW02-XXX	HANDWHEEL ASSEMBLY 02	1
2	YK5608-XXX	8" E5600, YOKE	1
3	BF5608-XXX	8" E5600, BODY, SEAT SIDE, FINISHED	1
4	BFN5608-XXX	8" E5600, BODY, NON-SEAT SIDE, FINISHED	1
5	GF5608-XXX	8" E5600, GATE, FINISHED	1
8	YSS5608-XXX	8" E5600, SAFETY SCREEN	2
9	ST08-XXX	8" STEM	1
10	OR5608-XXX	8" E5600, PERIMETER SEAT	1
11	OR5608AS-XXX	8" E5600, ATMOSPHERIC SEAL	1
12	TS5608-XXX	8" E5600, TRANSVERSE SEAL	4
13	TSC5608-XXX	8" E5600, TRANSVERSE CORNER SEAL	4
14	TSS5608-XXX	8" E5600, TRANSVERSE SEAL SCRAPER	8
15	PK5608-XXX	8" E5600, INJECTABLE PACKING	4
16	SPR08-XXX	8" STEM PROTECTOR	1
17	GG02-XXX	GATE GLIDE 02	6
18	CL02-XXX	CLEVIS 02	1
19	LP02-XXX	LOCKOUT PIN 02	1
20	TAG-ELITE-KGV	KGV NAMEPLATE	1
21	HW-FW-#10-UHMW	#10 FLAT WASHER, UHMW	8
22	HW-FW-0.375-188	3/8 FLAT WASHER, 18-8SS	4
23	HW-GFS-0.2500-28-303	GREASE FITTING ¼"-28 STRAIGHT	1
24	HW-HHCS-#10-24x0.75x0.75-188	#10-24 x 0.75 x 0.75, HEX HEAD CAP SCREW, 18-8SS	8
25	HW-HHCS-0.375-16x1.25x1.25-188	3/8-16 x 1.25 x 1.25, HEX HEAD CAP SCREW, 18-8SS	8
26	HW-HHCS-0.375-16x2.25x1-188	3/8-16 x 2.25 x 1, HEX HEAD CAP SCREW, 18-8SS	4
27	HW-HHCS-0.375-24x1.75x1-188	3/8-24 x 1.75 x 1, HEX HEAD CAP SCREW, 18-8SS	3
28	HW-HHCS-0.625-11x2x1.5-188	5/8-11 x 2 x 1.5, HEX HEAD CAP SCREW, 18-8SS	4
29	HW-JM-0.375-16-188	3/8-16 JAM NUT, 18-8SS	8
30	HW-LW-0.625-188	5/8 SPRING LOCK WASHER, 18-8SS	4
31	HW-SHCS-0.625-11x1.75x1.75-188	5/8-11 x 1.75 x 1.75, SOCKET HEAD CAP SCREW, 18-8SS	13
32	HW-TLN-0.375-16-188	3/8-16 TOP LOCK NUT, 18-8SS	7
33	HW-GN-#10-NYL	#10 NYLON GROMMET NUT	8
34	FIT-0.25HPP-316	¼" NPT, SOCKET PIPE PLUG	4

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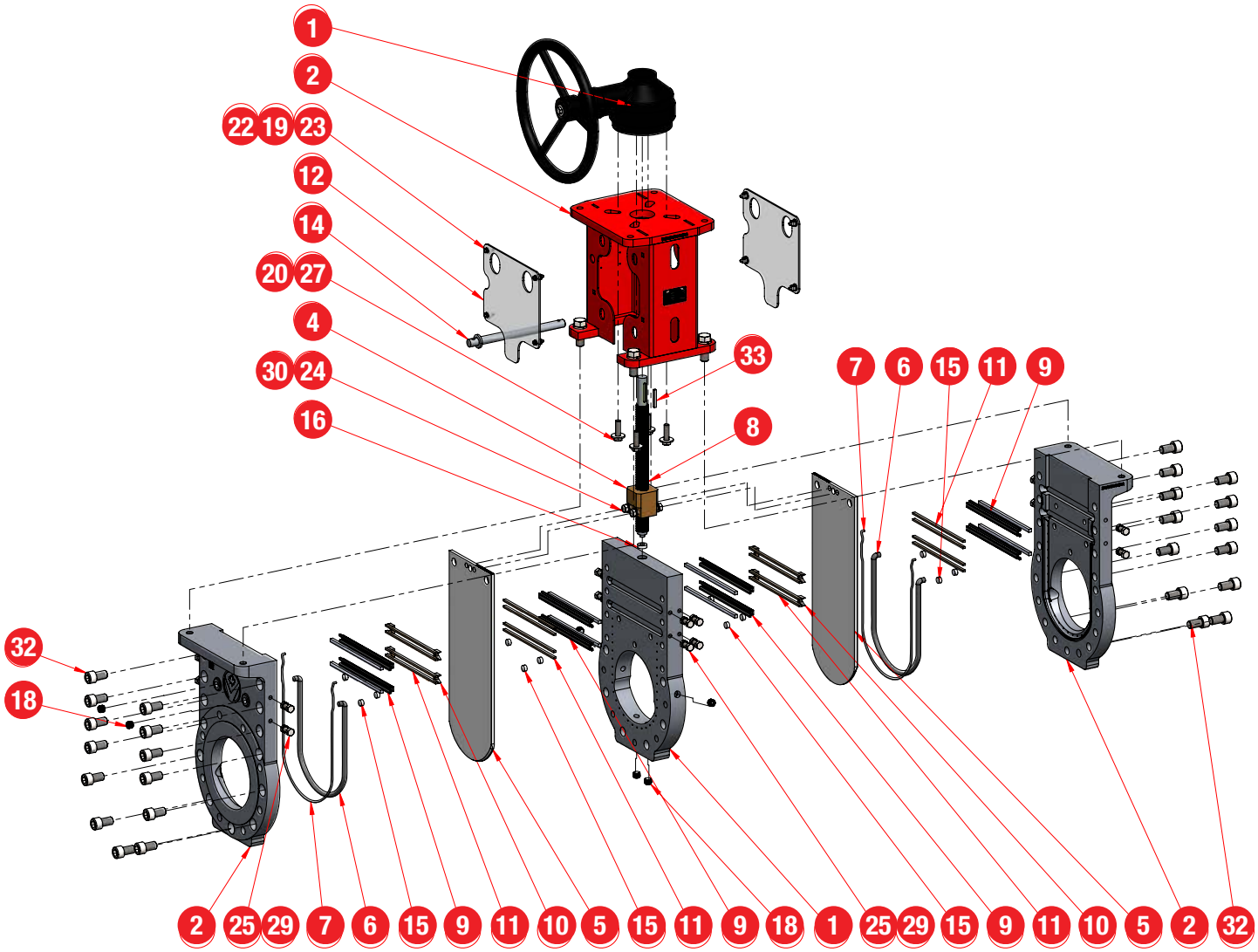
DBB5600: Exploded View

Typical parts breakout. 8" DBB5600 Double Block and Bleed Class 150 displayed.



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DBB5600: Materials

Materials			
Item Number	Part Number	Description	Qty
1	BFC5606-XXX	6" E5600, BODY, CENTER PLATE, FINISHED	1
2	BFD5606-XXX	6" E5600, BODY, DBB, SEAT SIDE, FINISHED	2
3	YKDBB5606-XXX	6" E5600, YOKE, DBB	1
4	CLDBB5606NR-BRZ	6" E5600, DBB CLEVIS	1
5	GFDBB5606-XXX	6" E5600 GATE, DBB, FINISHED	2
6	OR5606-XXX	6" E5600, PERIMETER SEAT	2
7	OR5606AS-XXX	6" E5600, BODY SEAL	2
8	STDBB5606-XXX	6" E5600 DBB, NON-RISING STEM	1
9	TS5606-XXX	6" E5600, TRANSVERSE SEAL	8
10	TSC5606-XXX	6" E5600, CORNER SEAL	8
11	TSS5606-XXX	6" E5600, TRANSVERSE SEAL SCRAPER	16
12	YSS5606-XXX	6" E5600, SAFETY SCREEN	2
13	PK5606-XXX	6" E5600, INJECTABLE PACKING	8
14	LP02-XXX	LOCKOUT PIN 02	1
15	GG01-XXX	GATE GLIDE 01	12
16	TW02NR-XXX	THRUST WASHER 02, NON-RISING STEM, 1"-5 DS LHT STEM	1
17	OPG02-0.75-3/16X3/16	BEVEL GEAR OPERATOR 02, NON-RISING STEM, ¾" SHAFT, 3/16 SQ. KEY	1
18	FIT-0.25HPP-316	¼" NPT, SOCKET PIPE PLUG	8
19	HW-FW-#10-UHMW	#10 FLAT WASHER, UHMW	8
20	HW-FW-M10-188	M10 FLAT WASHER, 18-8SS	4
21	HW-FW-M8-188	M8 FLAT WASHER, 18-8SS	1
22	HW-GN-#10-NYL	#10 NYLON GROMMET NUT	8
23	HW-HHCS-#10-24x0.75x0.75-188	#10-24 x 0.75 x 0.75, HEX HEAD CAP SCREW, 18-8SS	8
24	HW-HHCS-0.375-16x0.75x0.75-188	3/8-16 x 0.75 x 0.75, HEX HEAD CAP SCREW, 18-8SS	4
25	HW-HHCS-0.375-16x1x1-188	3/8-16 x 1 x 1, HEX HEAD CAP SCREW, 18-8SS	16
26	HW-HHCS-0.625-11x1.75x1.5-188	5/8-11 x 1.75 x 1.5, HEX HEAD CAP SCREW, 18-8SS	4
27	HW-HHCS-M10x35x35-188	M10 x 35 x 35 HEX HEAD CAP SCREW, 18-8SS	4
28	HW-HHCS-M8x40x22-188	M8 x 40 x 22 HEX HEAD CAP SCREW, 18-8SS	1
29	HW-JM-0.375-16-188	3/8-16 JAM NUT, 18-8SS	16
30	HW-LW-0.375-188	3/8 SPRING LOCK WASHER, 18-8SS	4
31	HW-LW-0.625-188	5/8 SPRING LOCK WASHER, 18-8SS	4
32	HW-SHCS-0.625-11x1.125x1.125-188	5/8-11 x 1.125 x 1.125, SOCKET HEAD CAP SCREW, 18-8SS	26
33	HW-SK-0.1875x0.1875x1.5	3/16 x 3/16 x 1.5 SQUARE KEY	1
41	TAG-01-5622EFEX(275PSI)	E5600-EPDM SEAT (275PSI) KGV NAMEPLATE	1

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Products manufactured by a third party ("Third Party Product") may constitute, contain, be contained in, incorporated into, attached to or packaged together with, the Products. Third Party Products are not covered by the warranty in Section 11(A). Third Party Products are subject only to the limited warranties provided by the manufacturer of the Third Party Products.

The Seller shall not be liable for a breach of the warranty set forth unless: (i) Purchaser gives written notice to Seller of the defect during the Warranty Period and, in any event, within fourteen (14) days of the time when Purchaser discovers or the defect; (ii) Seller is given a reasonable opportunity after receiving the notice to investigate and/or to verify Purchaser's claim that the Products are defective. If requested, to do so by the Seller, the Purchaser shall return (freight prepaid) such Products to Elite Valve Canada factory in accordance with the Sellers Return Authorization procedures.

Subject to above, with respect to any such Products during the Warranty Period, Seller shall, in its sole discretion, either: (i) repair or replace such Products (or the defective part) or (ii) credit or refund the price of such Products at the contract rate provided.

The Seller is not liable for any costs associated with repairs that have been performed by the Purchaser or third parties unless written permission has been granted. In no event shall Seller be liable for other than the repair or replacement of any defective Products. In no event shall Seller be liable for any damages, direct or indirect, special or consequential, including, without limitation, damages for lost profits, business interruption, or economic loss arising out of defects in the Products.

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www.elitevalve.com

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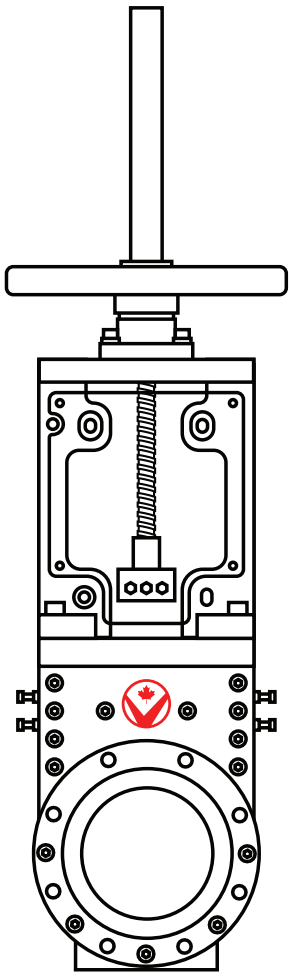

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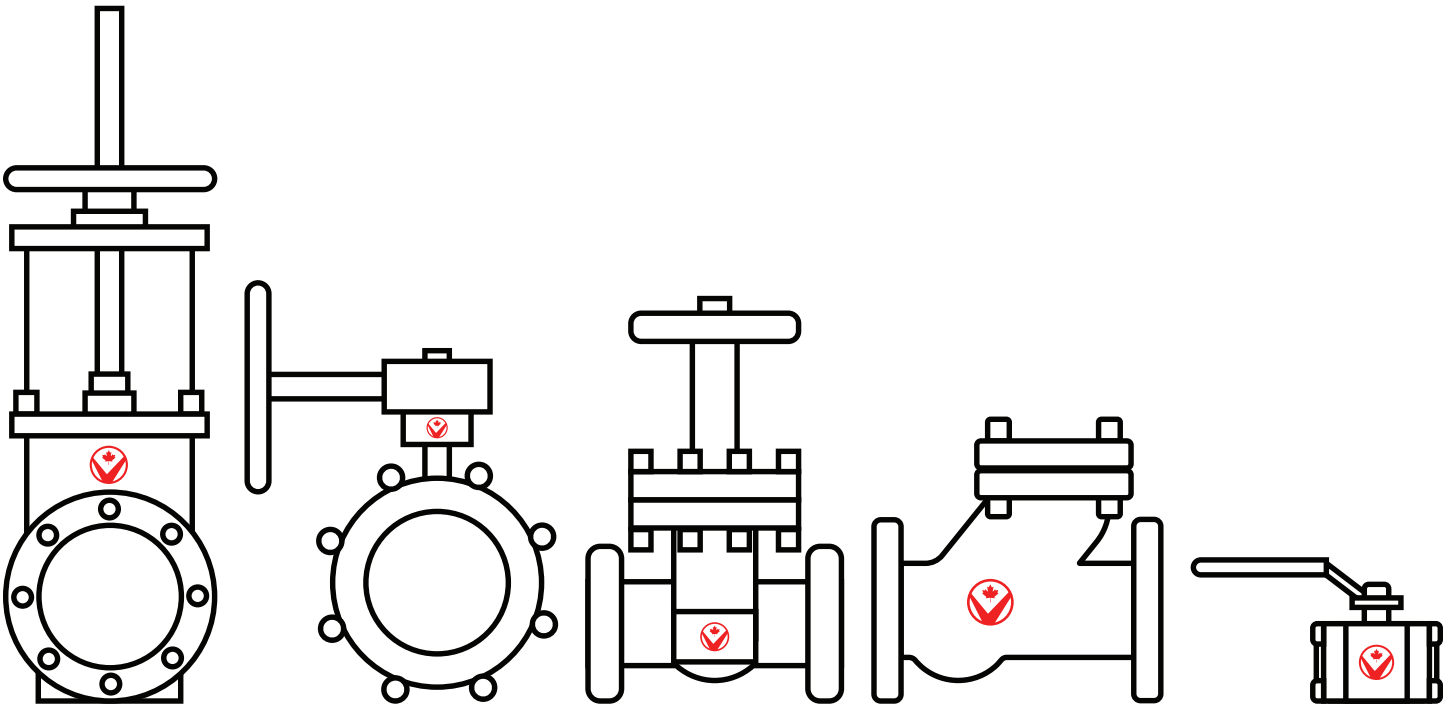

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2305 Wyecroft Road
Oakville, Ontario L6L 6R2

Local: (519) 756-3100
Toll-Free: (888) 339-7758

sales@elitevalve.com

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