

# FGP Food Grade Precleaner

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## Installation, Operation & Maintenance Manual

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# FGP Food Grade Precleaner

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Ordering Number:	_____
Serial Number:	_____
Purchase Date:	_____
Purchased From:	_____
Installation Date:	_____

This information will be helpful for any future inquiries or questions about belt cleaner replacement parts, specifications or troubleshooting.

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# Section 1 - Important Information

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## 1.1 Introduction

We at Flexco are very pleased that you have selected the FGP Precleaner for your conveyor system.

This manual will help you to understand the operation of this product and assist you in making it work up to its maximum efficiency over its lifetime of service.

It is essential for safe and efficient operation that the information and guidelines presented here be properly understood and implemented. This manual will provide safety precautions, installation instructions, maintenance procedures and troubleshooting tips.

If you have any questions or problems that are not covered in this manual, please visit our web site or contact our Customer Service Department:

**Customer Service: 1-800-541-8028**

**Visit [www.flexco.com](http://www.flexco.com) for other Flexco locations and products.**

Please read this manual thoroughly and pass it on to any others who will be directly responsible for installation, operation and maintenance of this cleaner. While we have tried to make the installation and service tasks as simple as possible, it does require correct installation and regular inspections and adjustments to maintain top performance.

## 1.2 User Benefits

Correct installation and regular maintenance will provide the following benefits for your operation:

- Reduced conveyor downtime
- Reduced man-hour labor
- Lower maintenance costs
- Increased service life for the belt cleaner and other conveyor components

## 1.3 Service Option

The FGP Precleaner is designed to be easily installed and serviced by your on-site personnel. However, if you would prefer complete turn-key factory service, please contact your local Flexco Field Engineer or your Flexco Distributor.

## Section 2 - Safety Considerations and Precautions

### 2.1 Stationary Conveyors

Before installing and operating the FGP Precleaner, it is important to review and understand the following safety information. There are set-up, maintenance and operational activities involving both **stationary** and **operating** conveyors. Each case has a safety protocol.

The following activities are performed on stationary conveyors:

- Installation
- Blade replacement
- Repairs
- Tension adjustments
- Cleaning

#### **DANGER**

It is imperative that OSHA Lockout/Tagout (LOTO) regulations, 29 CFR 1910.147, be followed before undertaking the preceding activities. Failure to use LOTO exposes workers to uncontrolled behavior of the belt cleaner caused by movement of the conveyor belt. Severe injury or death can result.

##### **Before working:**

- Lockout/Tagout the conveyor power source
- Disengage any takeups
- Clear the conveyor belt or clamp securely in place

#### **WARNING**

##### **Use Personal Protective Equipment (PPE):**

- Safety eyewear
- Hardhats
- Safety footwear

Close quarters, springs and heavy components create a worksite that compromises a worker's eyes, feet and skull.

PPE must be worn to control the foreseeable hazards associated with conveyor belt cleaners. Serious injuries can be avoided.

### 2.2 Operating Conveyors

There are two routine tasks that must be performed while the conveyor is running:

- Inspection of the cleaning performance
- Dynamic troubleshooting

#### **DANGER**

Every belt cleaner is an in-running nip hazard. Never touch or prod an operating cleaner. Cleaner hazards can cause instantaneous amputation and entrapment.

#### **WARNING**

Belt cleaners can become projectile hazards. Stay as far from the cleaner as practical and use safety eyewear and headgear. Missiles can inflict serious injury.

#### **WARNING**

Never adjust anything on an operating cleaner. Unforseeable belt projections and tears can catch on cleaners and cause violent movements of the cleaner structure. Flailing hardware can cause serious injury or death.

## Section 3 - Pre-installation Checks and Options

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### 3.1 Checklist

- Check that the cleaner size is correct for the beltline width
- Check the belt cleaner carton and make sure all the parts are included
- Review the “Tools Needed” list on the top of the installation instructions
- Inspect the belt and splice(s) for damage (tears, gouges, raised splices, etc.) that may interfere with the cleaner blade.
- Primary mounted belt cleaners are not generally recommended for use on impression cover, textured or cleated belts.
- Check the conveyor site:
  - Will the cleaner be installed on a chute?
  - Is the install on an open head pulley requiring mounting structure?
  - Are there obstructions that may require cleaner location adjustments?

**Caution:** All parts of the FGP Food Grade Pre-cleaner must be cleaned and sanitized in compliance with your company’s policies and any applicable legal or regulatory requirements prior to installation and use.

## Section 3 - Pre-installation Checks and Options (cont.)

### 3.2 Conveyor Mounting Structure

The first step in installing your FGP Food Grade Precleaner is to verify that there is adequate structure at the head pulley for mounting the cleaner.

1. Measure pulley diameter (A), including lagging and belt (Fig. 1).
2. Locate the overall pulley diameter that most closely matches yours on chart A, and use the corresponding X, Y, & C dimensions to locate the position of the center of the cleaner pole (Fig. 1).

Chart A: Pole Location

A		X		Y		C	
in.	mm	in.	mm	in.	mm	in.	mm
2.0	51	0.95	24	2.98	76	3.13	80
2.5	64	1.19	30	3.03	77	3.25	83
3.0	76	1.44	37	3.08	78	3.39	86
3.5	89	1.68	43	3.12	79	3.55	90
4.0	102	1.93	49	3.17	81	3.71	94
4.5	114	2.18	55	3.22	82	3.88	99
5.0	127	2.42	61	3.27	83	4.06	103
5.5	140	2.67	68	3.31	84	4.25	108
6.0	152	2.91	74	3.36	85	4.45	113
6.5	165	3.16	80	3.41	87	4.64	118
7.0	178	3.40	86	3.46	88	4.85	123
7.5	191	3.65	93	3.51	89	5.06	129
8.0	203	3.89	99	3.55	90	5.27	134
8.5	216	4.14	105	3.60	91	5.48	139
9.0	229	4.38	111	3.65	93	5.70	145
9.5	241	4.63	118	3.70	94	5.92	150
10.0	254	4.88	124	3.74	95	6.14	156

A = Diameter of pulley + lagging thickness + belt thickness  
C = Centerline of pulley to centerline of cleaner pole.

3. On both sides of the pulley, ensure that the conveyor structure extends downward from the centerline of the pulley shaft the distance  $Y + 3"$  and that it extends horizontally from the centerline of the pulley shaft the distance  $X + 3"$ . If there is not adequate conveyor structure, go to step 4 below. If the structure is adequate, skip to Section 4 – Installation Instructions.
4. Add the required amount of structure to the conveyor so that it extends to the  $Y + 3"$  and  $X + 3"$  dimensions from the centerline of the pulley shaft. **Note:** A minimum of three mounting bolts are required if bolting belt cleaner to structure.
5. Proceed to Section 4 – Installation Instructions.

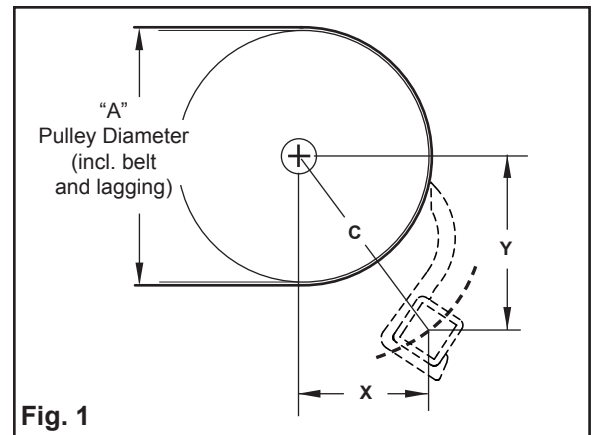


Fig. 1

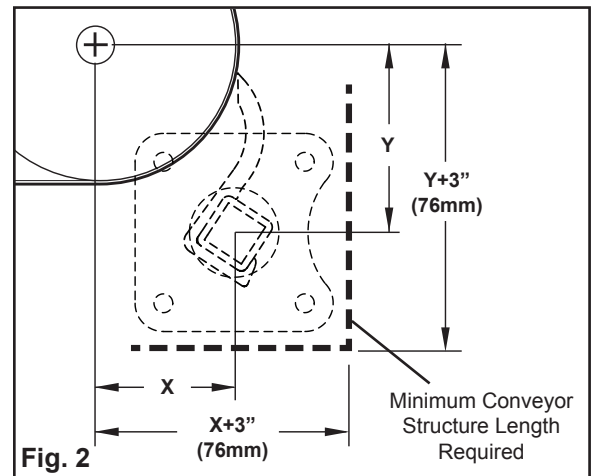


Fig. 2

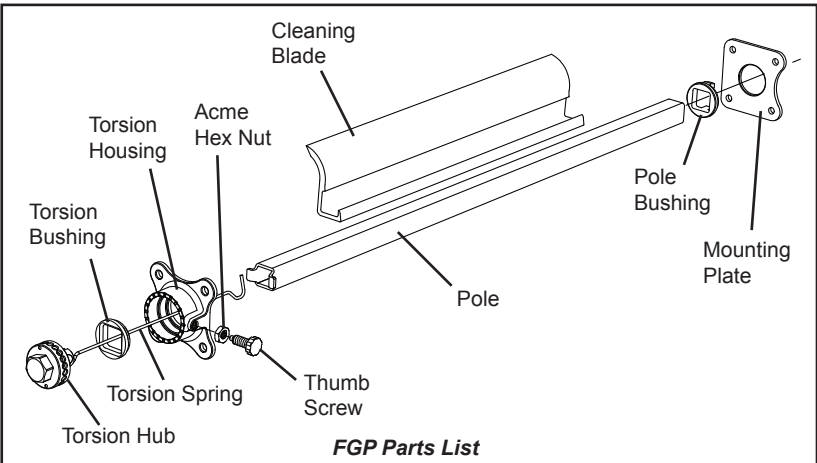
# Section 4 - Installation Instructions - FGP

## FGP Food Grade Precleaner Installation Instructions

**Caution:** FGP Food Grade Precleaner Installation Instructions – If your process or product may be adversely affected by contamination from the use of this belt cleaner, it is the user’s responsibility to take the steps necessary to prevent contamination.

### Tools Required

- Tape measure
- ½" (13 mm) combination wrench
- 5/8" (16 mm) combination wrench
- Ratchet with ½" (13 mm) socket
- Marking pen or soapstone
- 1" (26 mm) wrench
- Cutting torch or 1.75" (44 mm) diameter hole saw
- Welder (optional)



**PHYSICALLY LOCK OUT AND TAG THE CONVEYOR AT THE POWER SOURCE BEFORE YOU BEGIN CLEANER INSTALLATION.**

### Pre-Installation

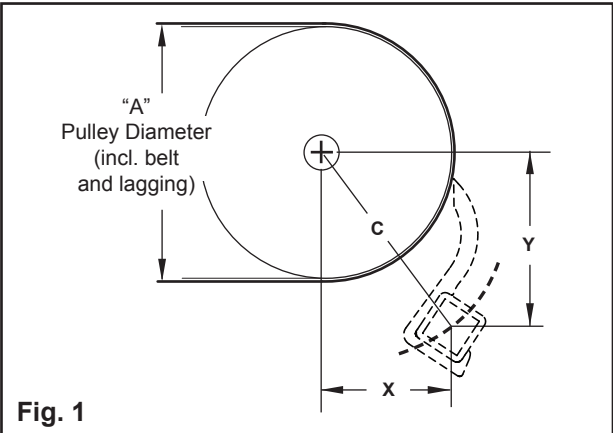
- Unpack belt cleaner from packaging
- Disassemble belt cleaner (see Parts List drawing above)
- Verify that correct size cleaner has been ordered
- Verify that all parts are included

### Installation Instructions

1. Measure outside structure width where cleaner will be mounted.
2. Measure belt cleaner pole length. Minimum pole length is structure width + 2" (50 mm) (Chart B).
3. From center of pulley shaft measure down the distance of Y dimension and place a mark on structure (Fig. 1).
4. From Y location mark, measure away from the pulley the distance of X dimension and mark this position. This will be the location of center of pole (Fig 1). Measure the C dimension to verify that it is correct.
5. Using the same X, Y, C dimensions repeat steps 2-4 on opposite side.

Chart B: Pole Lengths

Pole Length		Standard Blade Length		Minimum Blade Length		Minimum Conveyor Width at Cleaner Mounting Location		Maximum Conveyor Width at Cleaner Mounting Location	
in.	mm	in.	mm	in.	mm	in.	mm	in.	mm
24	610	12	305	9	229	11	279	22	556
30	813	18	457	9	229	14	356	28	708
36	965	24	610	9	229	20	508	34	861
42	1067	30	813	18	457	26	660	40	1013
48	1219	36	965	18	457	32	813	46	1165
54	1372	42	1067	18	457	38	965	52	1318
60	1524	48	1219	18	457	44	1118	58	1470
66	1676	54	1372	18	457	50	1270	64	1623
72	1829	60	1524	18	457	56	1422	70	1775





## Section 4 – Installation Instructions (cont.)

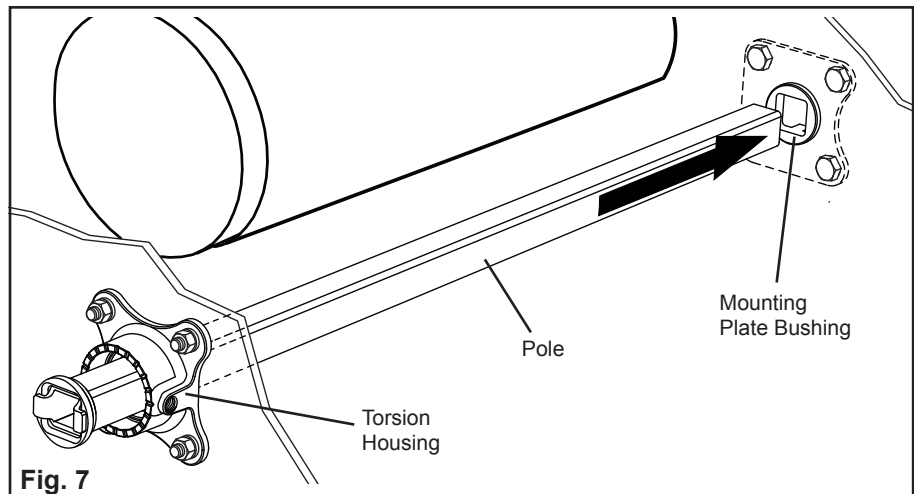
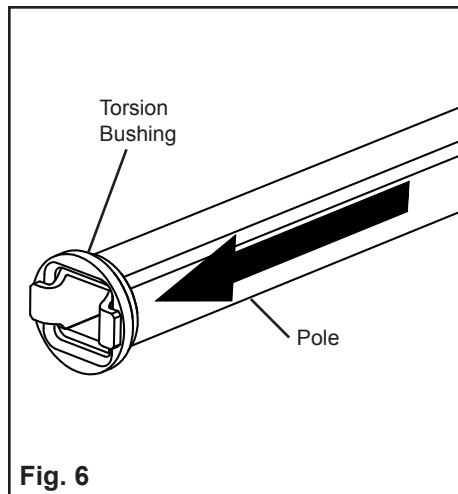
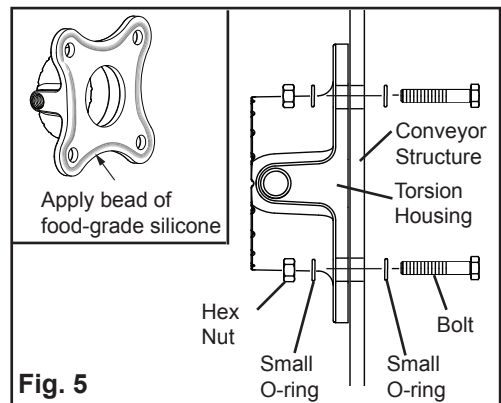
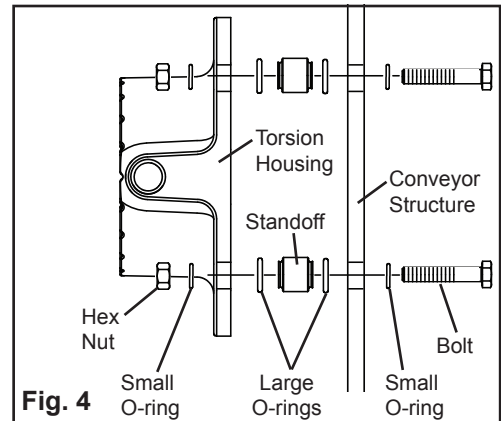
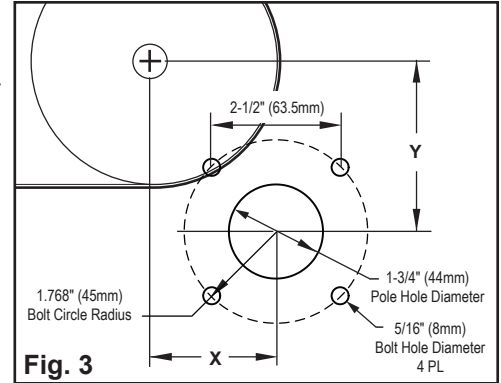
6. If mounting cleaner with supplied bolts, mark location of bolt holes per Fig. 3. The bolt holes need not be positioned at 10, 2, 5 and 7 o'clock. For ease of installation or as conditions require, bolt hole positions may be rotated about the pole centerline.
7. On each side of the conveyor structure, cut a 1.75" (44mm) diameter hole around the marks that locate the center of the pole (Fig. 3).
8. If mounting cleaner using supplied bolting, drill four 5/16" (8 mm) bolt holes per the bolt hole diagram (Fig. 3).
9. Clean up or remove any metal shavings or burrs created during the cutting/drilling of the pole and mounting bolt holes.
10. Determine which side of the conveyor has sufficient clearance to insert the cleaner pole. A horizontal distance of pole length +6" (152mm) is required. Attach the Torsion Housing to the outside of the conveyor structure using one of the following options:
  - a. With standoff hardware (Fig 4).
  - b. Without standoff hardware – flush mount (Fig 5).
  - c. Welded per local food application guidelines.

**Note:** If using flush mount method, a bead of food grade silicone should be applied on the bottom side of the torsion housing and the mounting plate (Fig 5).

11. Attach opposite side mounting plate per the option selected above.

**Caution:** It is the responsibility of the user to ensure that the mounting method is in compliance with your company's policies and any applicable legal or regulatory requirements.

12. Install torsion bushing on pole (Fig 6).
13. Position pole through torsion housing and through mounting plate bushing on opposite side (Fig 7).



## Section 4 – Installation Instructions (cont.)

14. Use included C-Dimension verification gauge to check for proper pole location (Fig. 8; Chart C).
  - a. Snap gauge onto pole at one end of head pulley so that outside edge of gauge is as close to belt as possible without touching the belt.
  - b. Rotate pole toward head pulley until gauge makes contact with belt.
  - c. The point on gauge where contact is made with belt indicates the measurement for gap between pole centerline and face of the belt/pulley. (The gap dimension is equal to C dimension minus radius of pulley.)
  - d. Verify that measured gap dimension is equal to gap dimension in Chart C for your pulley size.
  - e. Repeat measurement at other end of head pulley. Adjust position of pole as necessary to get required C dimension.

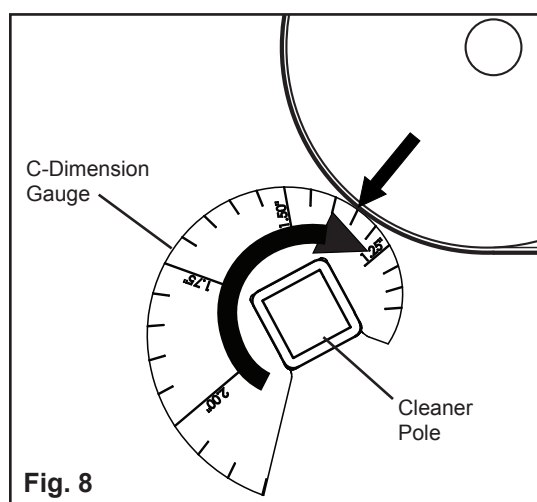


Chart C: Gap

Pulley Diameter (Inches)		Gap Dimension (C-Dim Gauge)		Pulley Diameter (Inches)		Gap Dimension (C-Dim Gauge)	
in.	mm	in.	mm	in.	mm	in.	mm
2.0	51	2.13	54	6.5	165	1.39	35
2.5	64	2.00	51	7.0	178	1.35	34
3.0	76	1.89	48	7.5	191	1.31	33
3.5	89	1.80	46	8.0	203	1.27	32
4.0	102	1.71	43	8.5	216	1.23	31
4.5	114	1.63	41	9.0	229	1.20	30
5.0	127	1.56	40	9.5	241	1.17	30
5.5	140	1.50	38	10.0	254	1.14	29
6.0	152	1.45	37	10.5	267	1.12	28

15. Attach loop end of Torsion Spring to Torsion Hub pin location (Fig. 9).
16. Insert assembled Torsion Hub with Torsion Spring into Torsion Housing and Pole until Torsion Hub is flush with Torsion Housing (Fig. 10).

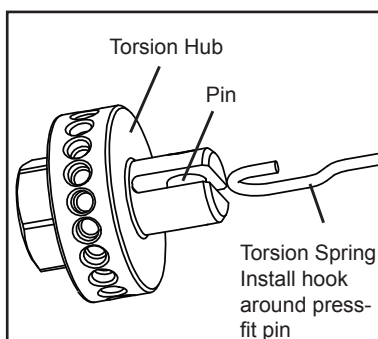


Fig. 9

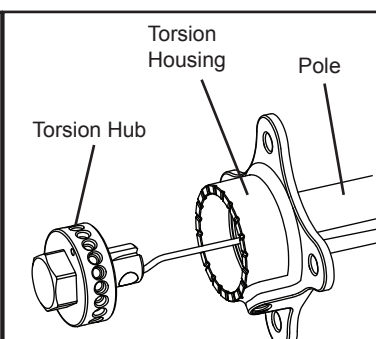


Fig. 10

17. Using a band saw or circular saw, cut Cleaning Blade to desired width. Deburr cut edge of blade as necessary.
  - a. For general purpose cleaner Flexco recommendation is belt width minus 1"(25 mm).
  - b. For cleaning abrasive materials such as sugar and frosting, Flexco recommends material path width + 3" (75 mm) for total blade length.

## Section 4 – Installation Instructions (cont.)

### 18. Attach Cleaning Blade (Fig. 11).

- Center and locate blade so that bottom lip engages with pole.
- Using an adjustable wrench, rotate pole in the direction of the head pulley. Do not rotate the torsion hub as this may damage the spring.
- Use hand to help snap blade to pole while rotating pole.

**Note:** When installing longer blades, it may be helpful to attach the blade starting at one end and work down the pole, engaging small lengths as you go.

### 19. Tension Cleaning Blade to conveyor belt by rotating the Torsion Hub towards the head pulley until blade is making contact with belt and light tension is felt in Torsion Hub (Fig. 12).

### 20. Rotate the Torsion Hub farther to the desired number of notches for tension pre-set. One to three notches is a typical pre-set tension (Fig. 13).

### 21. While holding Torsion Hub in tension pre-set position, tighten thumb screw ensuring that the location pin engages into Torsion Hub hole (Fig. 14).

### 22. Test run conveyor.

### 23. Loosen thumb screw and adjust tension as required for application.

**Caution:** Do not over tension the spring. Rotate the hub no more than 7 notches for cleaners up to 30" (760 mm) and 8 notches for cleaners over 30" (760 mm).

### 24. When desired tension is achieved, tighten thumb screw and jam nut (Fig. 14).

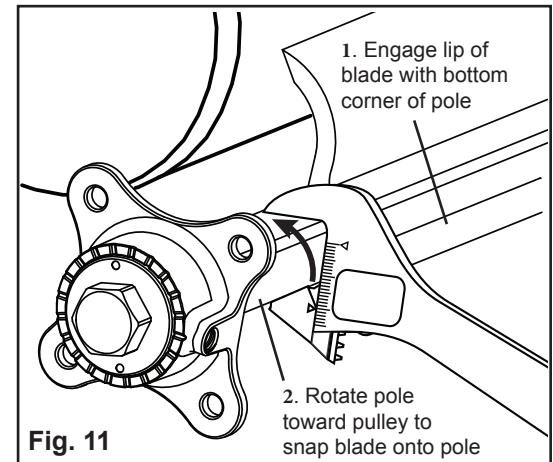


Fig. 11

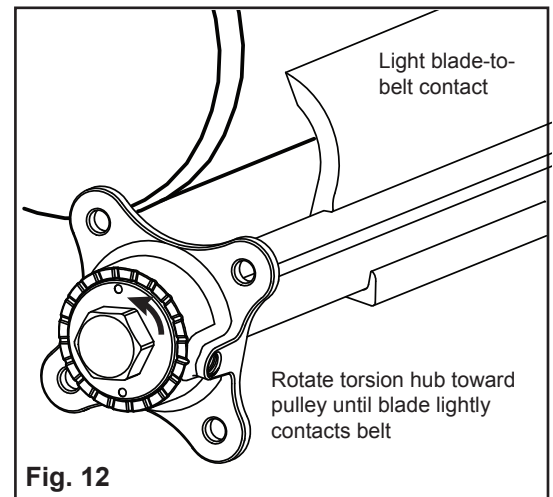


Fig. 12

## NOTICE:

**Cleaner has not been sanitized and must be cleaned and sanitized prior to use.**

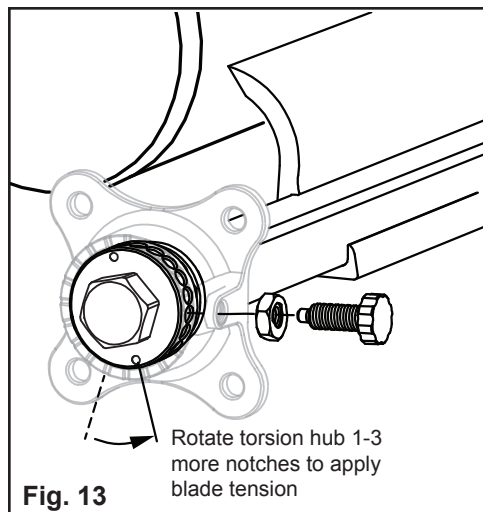


Fig. 13

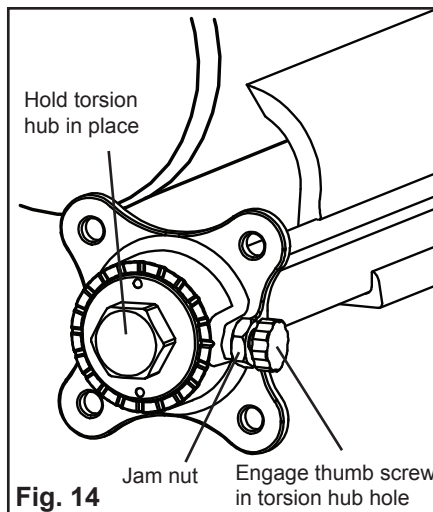


Fig. 14

## Section 5 - Pre-Operation Checklist and Testing

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### 5.1 Pre-Op Checklist

- Recheck that all fasteners are tightened properly.
- Check the blade location on the belt.
- Be sure that all installation materials and tools have been removed from the belt and the conveyor area.

### 5.2 Test Run the Conveyor

- Run the conveyor for at least 15 minutes and inspect the cleaning performance.
- If performance is inadequate, loosen jam nut and thumb screw.
- Rotate Torsion Hub to adjust tension as is required for application. Do not over tension the spring. Rotate the hub no more than 7 notches for cleaners up to 30" and 8 notches for cleaners over 30".
- Tighten thumb screw and jam nut.

**NOTE:** Observing the cleaner when it is running and performing properly will help to detect problems or when adjustments are needed.

## Section 6 - Maintenance

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Flexco belt cleaners are designed to operate with minimum maintenance. However, to maintain superior performance some service is required. When the cleaner is installed a regular maintenance program should be set up. This program will ensure that the cleaner operates at optimal efficiency and problems can be identified and fixed before the cleaner stops working.

All safety procedures for inspection of equipment (stationary or operating) must be observed. The FGP Precleaner operates at the discharge end of the conveyor and is in direct contact with the moving belt. Only visual observations can be made while the belt is running. Service tasks can be done only with the conveyor stopped and the correct lockout/tagout procedures observed.

### 6.1 New Installation Inspection

After the new cleaner has run for a few days a visual inspection should be made to ensure the cleaner is performing properly. Make adjustments as needed.

To ensure optimal cleaner performance, keep blade and pole free of product buildup.

### 6.2 Routine Visual Inspection (every 2-4 weeks)

A visual inspection of the cleaner and belt can determine:

- If the belt looks clean or if there are areas that are dirty.
- If the blade is worn out and needs to be replaced.
- If there is damage to the blade or other cleaner components.
- If fugitive material is built up on the cleaner.
- If there is cover damage to the belt.
- If there is vibration or bouncing of the cleaner on the belt.
- If a snub pulley is used, a check should be made for material buildup on the pulley.

If any of the above conditions exist, a determination should be made on when the conveyor can be stopped for cleaner maintenance.

### 6.3 Routine Physical Inspection (every 6-8 weeks)

When the conveyor is not in operation and is properly locked and tagged out, conduct a physical inspection of the cleaner to perform the following tasks:

- Clean material buildup off of the cleaner blade and pole.
- Closely inspect the blade for wear and any damage. Replace if needed.
- Ensure full blade to belt contact.
- Inspect the cleaner pole for damage.
- Inspect all fasteners for tightness and wear. Tighten or replace as needed.
- Replace any worn or damaged components.
- If blade flash occurs remove as needed.
- Check the tension of the cleaner blade to the belt. Adjust the tension if necessary. Do not over tension the spring. Rotate the hub no more than 7 notches for cleaners up to 30" and 8 notches for cleaners over 30".
- When maintenance tasks are completed, test run the conveyor to ensure the cleaner is performing properly.

## Section 6 - Maintenance (cont.)

### 6.4 Cleaning Instructions

Remove cleaner blade, thumb screw and jam nut, torsion hub and spring, pole and pole mounting bushings. Clean and sanitize as required. Reassemble. Reset tension.

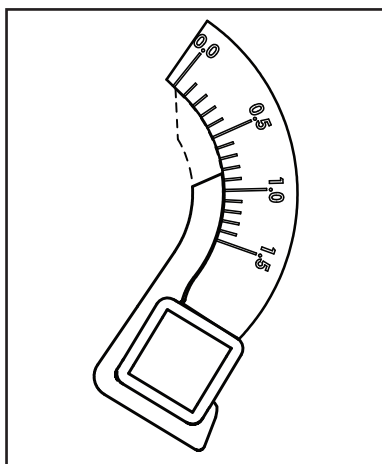
### 6.5 Blade Wear Inspection

**Note:** Belt type, belt speed, material being conveyed, installation and other application factors will affect blade wear.

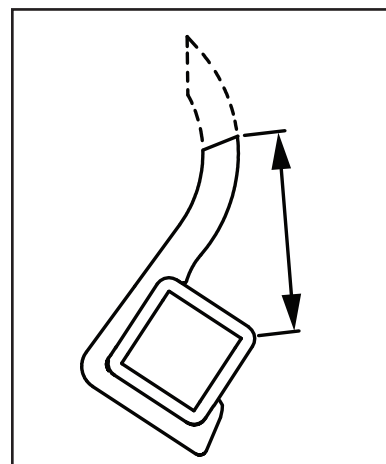
#### LARGE BLADE

Pulley Diameter		Max Wear Measurement on Gauge	Blade Tip to Square Pole Corner Measurement	
in.	mm		in.	mm
2	51	0.41	2.27	58
2.5	64	0.49	2.18	55
3	76	0.56	2.10	53
3.5	89	0.62	2.04	52
4	102	0.68	1.98	50
4.5	114	0.73	1.92	49
5	127	0.77	1.88	48
5.5	140	0.81	1.84	47
6	152	0.84	1.80	46
6.5	165	0.88	1.76	45
7	178	0.90	1.74	44
7.5	191	0.93	1.71	43
8	203	0.95	1.69	43
8.5	216	0.98	1.66	42
9	229	0.99	1.64	42
9.5	241	1.01	1.62	41
10	254	1.03	1.60	41
10.5	267	1.04	1.59	40
11	279	1.06	1.58	40

**Note:** Maximum wear for dual durometer blade is 0.75 gauge measurement or 1.90" (48 mm) from blade tip to square pole corner.

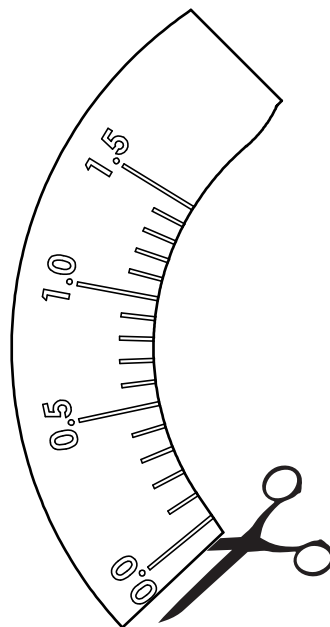


Blade Wear Measurement Using Gauge (see below) - Blade tip to top surface of pole



Blade Wear Measurement Using Tape Measure - Blade tip to corner of pole

#### Blade Wear Indicator Gauge Copy and cut out for use



Blade wear can be measured either by using a tape measure to determine the dimension from the tip of the blade to the corner of the pole, or by using the blade wear gauge (at left) by placing the end opposite the "0" mark on the flat surface of the pole and laying the gauge along the outside curve of the blade. Gauge can be copied and cut out for use.

## Section 6 - Maintenance (cont.)

### 6.6 Blade Replacement Instructions

#### Removal of Cleaning Blade

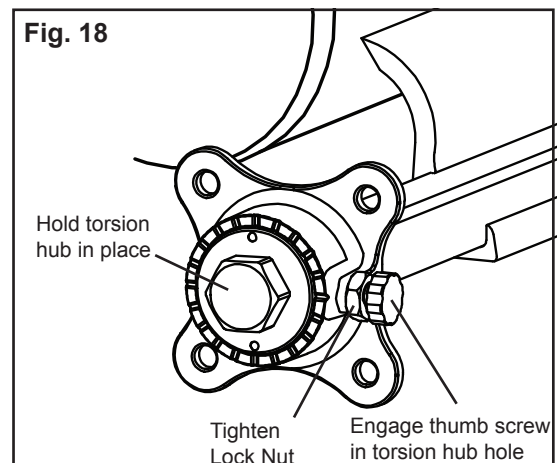
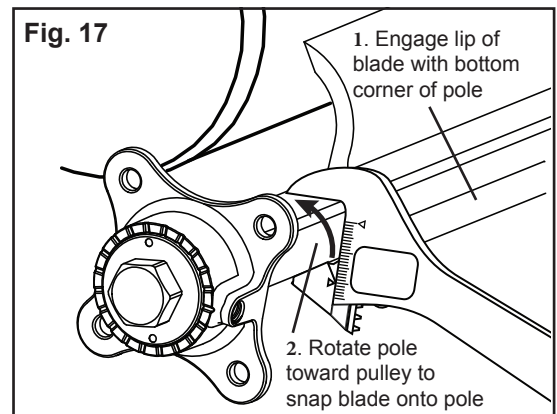
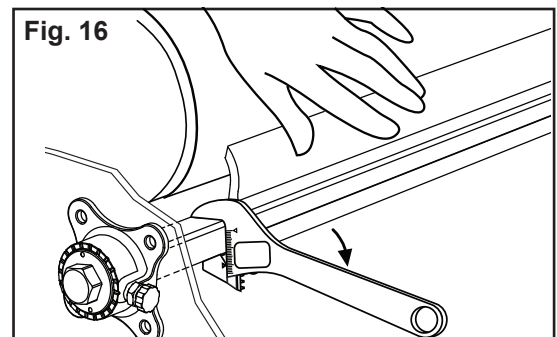
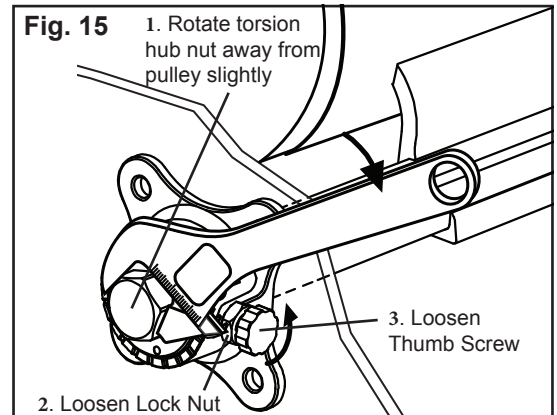
1. Place adjustable wrench on Torsion Hub nut. Rotate away from pulley slightly to relieve force on thumb screw (Fig. 15).
2. Release the tension on the pole by unlocking the thumb screw lock nut and turning the thumb screw counterclockwise until it is free from the tension hub (Fig. 15).
3. Place the adjustable wrench on the pole, rotate pole until blade makes contact with head pulley/belt.
4. Place hand on blade, pressing blade against pulley (Fig. 16).
5. Rotate pole back while holding blade against pulley (Fig. 16).
6. Blade should snap free from belt cleaner pole.
7. Remove blade.

#### Installation of Cleaning Blade

1. Insert blade up through gap between cleaner pole and head pulley/belt.
2. Center blade on belt.
3. Catch bottom lip of blade on lower front edge of belt cleaner pole (Fig. 17).
4. Rotate belt cleaner pole towards head pulley.
5. Continue to rotate pole until cleaning blade snaps onto pole.

**Note:** On wider belts it may be necessary to assist the blade snapping with free hand while rotating the pole towards the pulley.

6. With blade rotated against face of head pulley/belt, place wrench on tension hub and rotate in the direction of the head pulley until the hub indicator has moved the appropriate number of notches on the hub housing. Do not over tension the spring. Rotate the hub no more than 7 notches for cleaners up to 30" and 8 notches for cleaners over 30".
7. Turn thumb screw until the location tip fully engages with the nearest hub hole location (Fig. 18).
8. Tighten lock nut on thumb screw (Fig. 18).
9. Test run conveyor and adjust cleaner tension as required.



## Section 6 - Maintenance (cont.)

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### 6.7 Maintenance Log

Conveyor Name/No. \_\_\_\_\_

Date: \_\_\_\_\_ Work done by: \_\_\_\_\_ Service Quote #: \_\_\_\_\_

Activity: \_\_\_\_\_

---

Date: \_\_\_\_\_ Work done by: \_\_\_\_\_ Service Quote #: \_\_\_\_\_

Activity: \_\_\_\_\_

---

Date: \_\_\_\_\_ Work done by: \_\_\_\_\_ Service Quote #: \_\_\_\_\_

Activity: \_\_\_\_\_

---

Date: \_\_\_\_\_ Work done by: \_\_\_\_\_ Service Quote #: \_\_\_\_\_

Activity: \_\_\_\_\_

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Date: \_\_\_\_\_ Work done by: \_\_\_\_\_ Service Quote #: \_\_\_\_\_

Activity: \_\_\_\_\_

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Date: \_\_\_\_\_ – \_\_\_\_\_ Work done by: \_\_\_\_\_ Service Quote #: \_\_\_\_\_

Activity: \_\_\_\_\_

---

Date: \_\_\_\_\_ – \_\_\_\_\_ Work done by: \_\_\_\_\_ Service Quote #: \_\_\_\_\_

Activity: \_\_\_\_\_

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## Section 6 - Maintenance (cont.)

### 6.8 Cleaner Maintenance Checklist

**FGP Belt Cleaner:** \_\_\_\_\_ **Ordering Number:** \_\_\_\_\_

Blade Width: ☐ Belt minus 1" (25 mm) ☐ Material path plus 3" (75 mm).

**Conveyor Information:**

Conveyor Number: \_\_\_\_\_ Belt Condition: \_\_\_\_\_

Belt Width: ☐ 12" (300 mm) ☐ 18" (450 mm) ☐ 24" (600 mm) ☐ 30" (750 mm) ☐ 36" (900 mm) ☐ 42" (1050 mm) ☐ 48" (1200 mm) ☐ 54" (1350 mm) ☐ 60" (1500 mm)

Head Pulley Diameter (Belt & Lagging): \_\_\_\_\_

Belt Speed: \_\_\_\_\_ fpm Belt Thickness: \_\_\_\_\_

Belt Splice: \_\_\_\_\_ Condition of Splice: \_\_\_\_\_ Number of splices: \_\_\_\_\_ ☐ Skived ☐ Unskived

Material conveyed: \_\_\_\_\_

Days per week run: \_\_\_\_\_ Hours per day run: \_\_\_\_\_

**Blade Life::**

Date blade installed: \_\_\_\_\_ Date blade inspected: \_\_\_\_\_ Estimated blade life: \_\_\_\_\_

Is blade making complete contact with belt? ☐ Yes ☐ No

Blade height: Left \_\_\_\_\_ Middle \_\_\_\_\_ Right \_\_\_\_\_

Blade condition: ☐ Good ☐ Grooved ☐ Smiled ☐ Not contacting belt ☐ Damaged

**Was Cleaner Adjusted:** ☐ Yes ☐ No

**Pole Condition:** ☐ Good ☐ Bent ☐ Worn

**Lagging:** ☐ Slide lag ☐ Ceramic ☐ Rubber ☐ Other ☐ None

Condition of lagging: ☐ Good ☐ Bad ☐ Other \_\_\_\_\_

**Cleaner's Overall Performance:** (Rate the following 1 - 5, 1 = very poor - 5 = very good)

Appearance: ☐ Comments: \_\_\_\_\_

Location: ☐ Comments: \_\_\_\_\_

Maintenance: ☐ Comments: \_\_\_\_\_

Performance: ☐ Comments: \_\_\_\_\_

**Other Comments:** \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_



## Section 7 - Troubleshooting

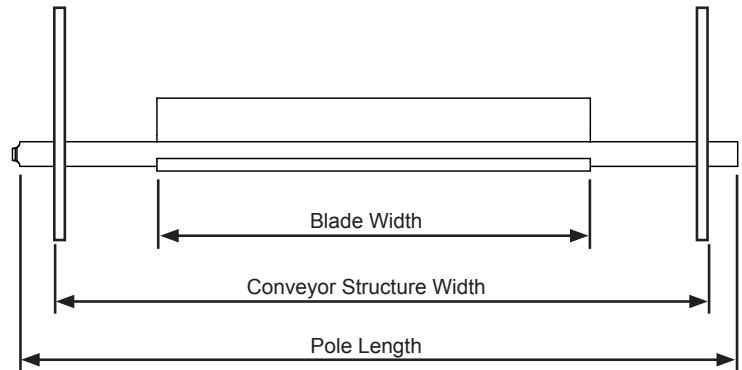
Problem	Possible Cause	Possible Solutions
Poor cleaning performance	Excessive build-up on cleaner	Inspect blade, bushings and pole for material buildup
	Cleaner under-tensioned	Increase tension incrementally and reevaluate
	Cleaner over-tensioned	Decrease tension incrementally and reevaluate
	Cleaner installed in wrong location	Verify “C” dimension, relocate to correct dimension
	Cleaner blade worn or damaged	Replace cleaner blade
Rapid Blade Wear	Excessive build-up on cleaner	Inspect blade, bushings and pole for material buildup
	Cleaner under-tensioned	Increase tension incrementally and reevaluate
	Cleaner over-tensioned	Decrease tension incrementally and reevaluate
	Cleaner installed in wrong location	Verify “C” dimension, relocate to correct dimension
	Excessively abrasive material	More frequent blade adjustment and replacement may be necessary
	Mechanical splice damaging blade	Repair, skive or replace splice
Excessive center wear on blade (smile effect)	Blade wider than material path	Replace blade with width appropriate for material path
	Cleaner under-tensioned	Increase tension incrementally and reevaluate
	Cleaner over-tensioned	Decrease tension incrementally and reevaluate
Unusual wear, flash or damage to blade	Excessive build-up on cleaner	Inspect blade, bushings and pole for material buildup
	Mechanical splice damaging blade	Repair, skive or replace splice
	Belt damaged or ripped	Repair or replace belt
	Cleaner installed in wrong location	Verify “C” dimension, relocate to correct dimension
	Damage to pulley or pulley lagging	Repair or replace pulley or lagging
Vibration or noise	Excessive build-up on cleaner	Inspect blade, bushings and pole for material buildup
	Cleaner installed in wrong location	Verify “C” dimension, relocate to correct dimension
	Cleaner under-tensioned	Increase tension incrementally and reevaluate
	Cleaner over-tensioned	Decrease tension incrementally and reevaluate
	Cleaner mounting not secure	Check and tighten all bolts and nuts
	Cleaner not square to head pulley	Verify “C” dimension, relocate to correct dimension
	Material build-up in chute	Remove build-up on cleaner and in chute
	Using dual durometer blade on dry belt	Change to UHMW blade
Cleaner being pushed away from pulley	Excessive build-up on cleaner	Inspect blade, bushings and pole for material buildup
	Cleaner under-tensioned	Increase tension incrementally and reevaluate
	Cleaner over-tensioned	Decrease tension incrementally and reevaluate
	Sticky material is overburdening cleaner	Increase tension incrementally and reevaluate
	Cleaner not set up correctly	Confirm location dimensions are equal on both sides

## Section 8 - Specs and CAD Drawings

### 8.1 Specs and Guidelines

#### Pole Lengths

Pole Length		Standard Blade Length		Minimum Blade Length		Minimum Conveyor Width at Cleaner Mounting Location		Maximum Conveyor Width at Cleaner Mounting Location	
in.	mm	in.	mm	in.	mm	in.	mm	in.	mm
24	610	12	305	9	229	11	279	22	556
30	813	18	457	9	229	14	356	28	708
36	965	24	610	9	229	20	508	34	861
42	1067	30	813	18	457	26	660	40	1013
48	1219	36	965	18	457	32	813	46	1165
54	1372	42	1067	18	457	38	965	52	1318
60	1524	48	1219	18	457	44	1118	58	1470
66	1676	54	1372	18	457	50	1270	64	1623
72	1829	60	1524	18	457	56	1422	70	1775



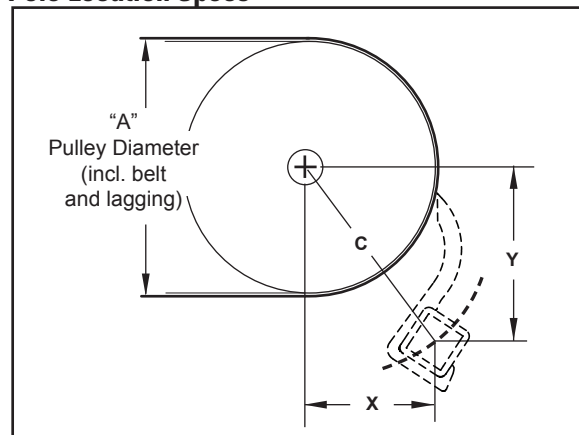
#### Pole Location

A		X		Y		C	
in.	mm	in.	mm	in.	mm	in.	mm
2.0	51	0.95	24	2.98	76	3.13	80
2.5	64	1.19	30	3.03	77	3.25	83
3.0	76	1.44	37	3.08	78	3.39	86
3.5	89	1.68	43	3.12	79	3.55	90
4.0	102	1.93	49	3.17	81	3.71	94
4.5	114	2.18	55	3.22	82	3.88	99
5.0	127	2.42	61	3.27	83	4.06	103
5.5	140	2.67	68	3.31	84	4.25	108
6.0	152	2.91	74	3.36	85	4.45	113
6.5	165	3.16	80	3.41	87	4.64	118
7.0	178	3.40	86	3.46	88	4.85	123
7.5	191	3.65	93	3.51	89	5.06	129
8.0	203	3.89	99	3.55	90	5.27	134
8.5	216	4.14	105	3.60	91	5.48	139
9.0	229	4.38	111	3.65	93	5.70	145
9.5	241	4.63	118	3.70	94	5.92	150
10.0	254	4.88	124	3.74	95	6.14	156

A = Diameter of pulley + lagging thickness + belt thickness

C = Centerline of pulley to centerline of cleaner pole.

#### Pole Location Specs



#### Specifications:

- Temperature Range ..... UHMW: -20°F to 140°F (-29°C to 60°C)  
Dual Durometer: +32°F to 140°F (0°C to 60°C);
- Pulley Diameter Range ..... 2" (50 mm) to 10.5" (267 mm)
- Blade Height ..... 3.0" (76 mm)
- Usable Blade Wear Length (pulley size dependent) ..... 2" - 2.6" (50-66 mm)
- Blade Width Range ..... 4" - 60" (102-1524 mm)
- Blade Material ..... Food-grade UHMW, UHMW with Stainless Steel, or Urethane with PVC
- Blade Hardness ..... UHMW: 63D Shore Hardness  
Urethane: 85A Shore Hardness
- Pole/Mounting Material ..... 304 Stainless Steel

Section 8 - Specs and CAD Drawings (cont.)

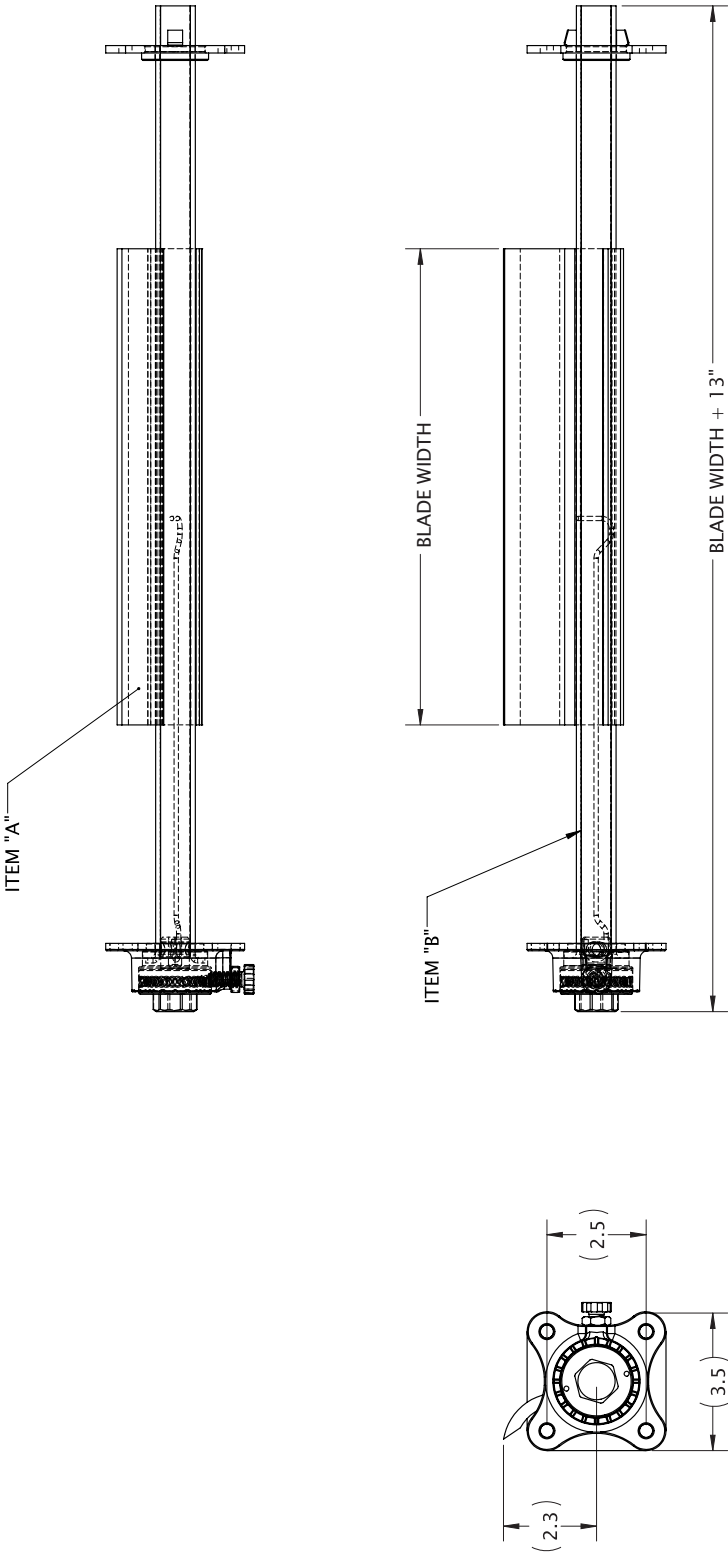
8.2 CAD Drawing - Food Grade Precleaner with Blue or White Blade

Blue Blade

ASSY NUMBER	BLADE WIDTH	ITEM "A"	ITEM "B"
56000	12"	56531	56503
56001	18"	56532	56504
56002	24"	56533	56505
56003	30"	56534	56506
56004	36"	56535	56507
56005	42"	56536	56508
56006	48"	56537	56509
56007	54"	56538	56510
56008	60"	56539	56511

White Blade

ASSY NUMBER	BLADE WIDTH	ITEM "A"	ITEM "B"
56009	12"	56540	56503
56010	18"	56541	56504
56011	24"	56542	56505
56012	30"	56543	56506
56013	36"	56544	56507
56014	42"	56545	56508
56015	48"	56546	56509
56016	54"	56547	56510
56017	60"	56548	56511



# Section 8 - Specs and CAD Drawings (cont.)

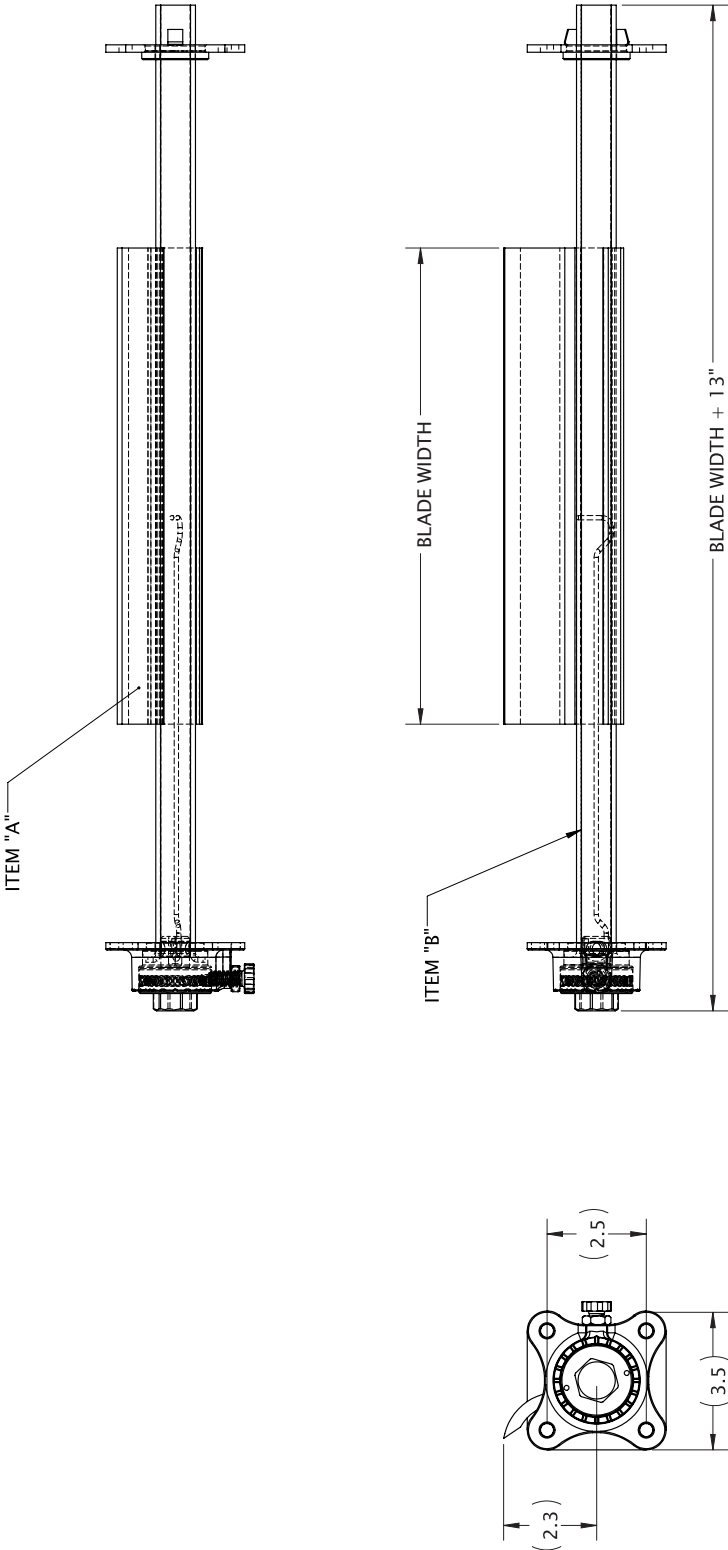
## 8.3 CAD Drawing - Food Grade Precleaner with Metal Detectable Blade or Dual Durometer Blade

Blue Dual Durometer Blade with Metal Detectable Tip

ASSY NUMBER	BLADE WIDTH	ITEM "A"	ITEM "B"
56018	12"	56549	56503
56019	18"	56550	56504
56020	24"	56551	56505
56021	30"	56552	56506
56022	36"	56553	56507
56023	42"	56554	56508
56024	48"	56555	56509
56025	54"	56556	56510
56026	60"	56557	56511

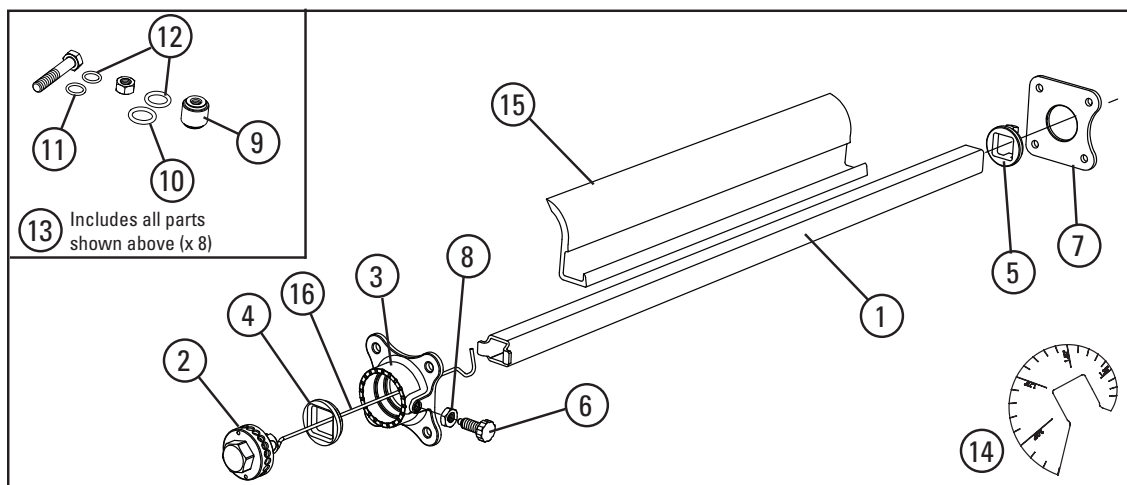
Blue Metal Detectable Blade

ASSY NUMBER	BLADE WIDTH	ITEM "A"	ITEM "B"
56027	12"	56558	56503
56028	18"	56559	56504
56029	24"	56560	56505
56030	30"	56561	56506
56031	36"	56562	56507
56032	42"	56563	56508
56033	48"	56564	56509
56034	54"	56565	56510
56035	60"	56566	56511



## Section 9 - Replacement Parts

### 9.1 Replacement Parts List



#### Replacement Parts

REF	DESCRIPTION	ORDERING NUMBER	ITEM CODE	WT. LBS.
1	24" (610 mm) Pole	FGPL-24/610	56503	2.7
	30" (762 mm) Pole	FGPL-30/762	56504	3.4
	36" (914 mm) Pole	FGPL-36/914	56505	4.1
	42" (1067 mm) Pole	FGPL-42/1067	56506	4.8
	48" (1219 mm) Pole	FGPL-48/1219	56507	5.5
	54" (1372 mm) Pole	FGPL-54/1372	56508	6.2
	60" (1524 mm) Pole	FGPL-60/1524	56509	6.9
	66" (1676 mm) Pole	FGPL-66/1676	56510	7.6
	72" (1829 mm) Pole	FGPL-72/1829	56511	8.3
2	Torsion Hub Assembly	FGTHUB	56519	0.6
3	Torsion Housing	FGTHSG	56520	0.8
4	Torsion Bushing	FGTBSG	56521	0.1
5	Pole Bushing	FGPBSG	56522	0.1
6	Thumb Screw	FGPIN	56523	0.1
7	End Plate	FGENDPLT	56524	0.5
8	Jam/Locking Nut	FGHEXNUT	56525	0.1
9	Standoff Kit (8 pc)	FGSTNDOFFKIT/8	56526	0.6
	Standoff (1 pc)	FGSTNDOFFKIT/1	56529	0.1
10	Large O-ring (1 pc)	FGO-RLG/1	56530	0.1
11	Small O-ring (1 pc)	FGO-RSM/1	56567	0.1
12	O-ring Kit (16 pcs. ea. Items 10 & 11)	FGO-RGKIT/32	56528	0.1
13	Hardware Kit	FGHRDWRKIT	56527	1.1
14	"C" Dimension Gauge	FG-C-GAUGE	56568	0.1

#### Replacement Springs

REF	DESCRIPTION	ORDERING NUMBER	ITEM CODE	WT. LBS.
16	Torsion Spring 6" (152 mm) to 12" (305 mm) Blades	FGTS-20/500	56500	0.1
	Torsion Spring 13" (330 mm) to 24" (610 mm) Blades	FGTS-36/900	56501	0.1
	Torsion Spring 25" (635mm) to 48" (1219 mm) Blades	FGTS-60/1500	56502	0.1
	Torsion Spring 49" (1245 mm) to 60" (1524 mm) Blades	FGTS-XL	56577	0.2

#### Replacement Blades

REF	DESCRIPTION	ORDERING NUMBER	ITEM CODE	WT. LBS.
15	12" (305 mm) Blue Blade	FGB-BL3-12/305	56531	0.5
	18" (457 mm) Blue Blade	FGB-BL3-18/457	56532	0.7
	24" (610 mm) Blue Blade	FGB-BL3-24/610	56533	0.9
	30" (762 mm) Blue Blade	FGB-BL3-30/762	56534	1.2
	36" (914 mm) Blue Blade	FGB-BL3-36/914	56535	1.4
	42" (1067 mm) Blue Blade	FGB-BL3-42/1067	56536	1.6
	48" (1219 mm) Blue Blade	FGB-BL3-48/1219	56537	1.8
	54" (1372 mm) Blue Blade	FGB-BL3-54/1372	56538	2.1
	60" (1524 mm) Blue Blade	FGB-BL3-60/1524	56539	2.3
	12" (305 mm) White Blade	FGB-W3-12/305	56540	0.5
	18" (457 mm) White Blade	FGB-W3-18/457	56541	0.7
	24" (610 mm) White Blade	FGB-W3-24/610	56542	0.9
	30" (762 mm) White Blade	FGB-W3-30/762	56543	1.2
	36" (914 mm) White Blade	FGB-W3-36/914	56544	1.4
	42" (1067 mm) White Blade	FGB-W3-42/1067	56545	1.6
	48" (1219 mm) White Blade	FGB-W3-48/1219	56546	1.8
	54" (1372 mm) White Blade	FGB-W3-54/1372	56547	2.1
	60" (1524 mm) White Blade	FGB-W3-60/1524	56548	2.3
	12" (305 mm) Dual Durometer Blade	FGB-MDDD3-12/305	56549	0.5
	18" (457 mm) Dual Durometer Blade	FGB-MDDD3-18/457	56550	0.7
	24" (610 mm) Dual Durometer Blade	FGB-MDDD3-24/610	56551	0.9
	30" (762 mm) Dual Durometer Blade	FGB-MDDD3-30/762	56552	1.2
	36" (914 mm) Dual Durometer Blade	FGB-MDDD3-36/914	56553	1.4
	42" (1067 mm) Dual Durometer Blade	FGB-MDDD3-42/1067	56554	1.6
	48" (1219 mm) Dual Durometer Blade	FGB-MDDD3-48/1219	56555	1.8
	54" (1372 mm) Dual Durometer Blade	FGB-MDDD3-54/1372	56556	2.1
	60" (1524 mm) Dual Durometer Blade	FGB-MDDD3-60/1524	56557	2.3
	12" (305 mm) Metal Detectable Blade	FGB-MD3-12/305	56558	0.5
	18" (457 mm) Metal Detectable Blade	FGB-MD3-18/457	56559	0.7
	24" (610 mm) Metal Detectable Blade	FGB-MD3-24/610	56560	0.9
	30" (762 mm) Metal Detectable Blade	FGB-MD3-30/762	56561	1.2
	36" (914 mm) Metal Detectable Blade	FGB-MD3-36/914	56562	1.4
	42" (1067 mm) Metal Detectable Blade	FGB-MD3-42/1067	56563	1.6
	48" (1219 mm) Metal Detectable Blade	FGB-MD3-48/1219	56564	1.8
	54" (1372 mm) Metal Detectable Blade	FGB-MD3-54/1372	56565	2.1
	60" (1524 mm) Metal Detectable Blade	FGB-MD3-60/1524	56566	2.3

**NOTE:** Equipping an FGP with a replacement dual durometer blade will void EU 1935/2004 compliance.



# Section 10 - USDA Certifications

UNITED STATES DEPARTMENT OF AGRICULTURE  
MARKETING AND REGULATORY PROGRAMS  
AGRICULTURAL MARKETING SERVICE

## EQUIPMENT ACCEPTANCE CERTIFICATE

Firm: FLEXCO  
1995 Oak Industrial Drive, North East  
Grand Rapids, Michigan, 49505

Model Designation: Belt Conveyors


*Primary Belt Cleaner with the GA 070, GA 075, GA 076 or GA077 blades*

April 19, 2019

Date of Issuance

April 18, 2024

Date of Expiration

  
U.S. Department of Agriculture  
Marketing and Regulatory Programs  
Agricultural Marketing Services  
Dairy Grading Branch  
1400 Independence Ave., SW  
Washington, DC 20250-0230

The issuance of this form is based on U.S. Department of Agriculture, Dairy Grading Branch, Equipment Design Review Section, evaluation of the equipment listed above for compliance with:

USDA Guidelines of the Sanitary Design and Fabrication of Dairy Processing Equipment.  
(June 2001)

This form does not limit USDA's responsibility to take appropriate action in cases in which evidence of non-compliance, improper maintenance, or non-sanitary conditions have been observed.



USDA  
United States Department of Agriculture

DA-161 (09-04) Destroy previous editions.

UNITED STATES DEPARTMENT OF AGRICULTURE  
MARKETING AND REGULATORY PROGRAMS  
AGRICULTURAL MARKETING SERVICE

## EQUIPMENT ACCEPTANCE CERTIFICATE

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Agricultural Marketing Services  
Dairy Grading Branch  
1400 Independence Ave., SW  
Washington, DC 20250-0230

The issuance of this form is based on U.S. Department of Agriculture, Dairy Grading Branch, Equipment Design Review Section, evaluation of the equipment listed above for compliance with:

NSF/ANSI/3-A SSI-14159-3-2014 (Hygiene Requirements for the Design of Mechanical Belt Conveyors used in Meat and Poultry Processing)

This form does not limit USDA's responsibility to take appropriate action in cases in which evidence of non-compliance, improper maintenance, or non-sanitary conditions have been observed.



USDA  
United States Department of Agriculture

DA-161 (09-04) Destroy previous editions.

## Section 11 - BISSC Certificate



### BAKING INDUSTRY SANITATION STANDARDS COMMITTEE

1213 Bakers Way, PO Box 3999, Manhattan, KS 66505-3999 866-342-4772 or 785-537-4750

bissc@bissc.org www.bissc.org

2020

### THIRD-PARTY VERIFIED

Authorization No. BISSC-155

Company: Flexible Steel Lacing Company dba Flexco

Address: 2525 Wisconsin Ave, Downers Grove, Illinois, 60515, United States of America

is hereby authorized to apply the BISSC Symbol to the model(s) of equipment listed below, conforming to the ANSI/ASB/Z50.2-2015 sanitation standard, for the twelve months beginning January 1, 2020 and ending December 31, 2020.

Standard Reference(s): 3.0 General Principles of Design, Construction and Cleaning for All Bakery Equipment  
4.7, Design Requirements for Conveyors

Model Designation: FGP: Food Grade Precleaner.

  
\_\_\_\_\_  
President

The issuance of Authorization for the use of the BISSC Verified Symbol is based upon independent inspection that the equipment listed above complies fully with the ANSI/ASB/Z50.2-2015 standard reference(s) specified. Legal responsibility for compliance is solely that of the holder of this Certificate of Verification. BISSC does not warrant that the holder of a verification certificate at all times complies with the provisions of the designated standard(s). This in no way affects the responsibility of BISSC to take appropriate action in cases where evidence of non-compliance by the holder of a verification certificate has been established.



## Section 12 - EU Declaration of Compliance



*Partners in Productivity*

### EU Declaration of Compliance Statement

**Product:** FGP Belt pre-cleaners (white, blue and metal detectable blue versions), with UHMWPE Blades –

Assembly

56000 through 56017  
56027 through 56035  
56051, 56064

Blades

56531 through 56539, 56583	Blue UHMWPE
56540 through 56548	White UHMWPE
56558 through 56566, 56582	Blue Metal Detectable UHMWPE

**Intended applications:** For use in contact with all food types, up to 60° C.

**Framework regulation (EC) No. 1935/2004: (Applicable to all food contact materials)**

The above FGP belt pre-cleaners comply with the applicable requirements of Regulation (EC) no. 1935/2004 on Materials and Articles intended to come into contact with food including Article 3 (General Requirements) and Article 17 (Traceability).

**Good Manufacturing Practice Regulation (EC) No. 2023/2006: (Applicable to all food contact materials)**

The above products are manufactured under a quality assurance system which meets the requirements of Regulation (EC) no. 2023/2006 on Good Manufacturing Practice for materials and articles intended to come into contact with food.

**Commission regulation (EU) No.10/2011 on plastic materials intended to come into contact with food:**

UHMWPE plastic blades used with the pre-cleaners are in compositional compliance with EU Regulation 10/2011 including its updates 1282/2011, 1183/2012, 202/2014, 174/2015, 2016/1416, 2017/752, 2018/79, 2018/213, 2018/831, and 2019/37. The metal detectable additive used in the blue blade is also listed. Colorants are suitable for use in food contact plastics.

When used as intended, levels of overall migration and specific migration of any substances subject to restriction will not exceed the legal limits (calculated as 6 dm<sup>2</sup> blade per 1kg of food).

This compliance statement is based on information received from material suppliers, migration testing as below undertaken according to Regulation 10/2011, migration modelling and quality control systems in place at Flexco. Supporting documents are available and can be disclosed to the competent authority on request.

1995 Oak Industrial Dr. NE • Grand Rapids, Michigan 49505 USA • Tel: 1-616-459-3196 • Fax: 1-616-459-4976 • [www.flexco.com](http://www.flexco.com)



## Section 12 - EU Declaration of Compliance (cont.)



*Partners in Productivity*

Test Simulants	Food Types	Testing Condition
A (10% ethanol), B (3% acetic acid), D2 (Vegetable oil substitute isooctane) of Regulation No.10,2011 for Plastic Materials and Articles in contact with food	All dry, aqueous, acidic and fatty foods	OM5 2 hours at 100°C or equivalent

### **Dual use food additives:**

No migratory dual use food additives or authorised food flavourings covered respectively by Regulation (EC) No. 1333/2008 or Regulation (EC) No. 1334/2008 or their implementing measures are understood to be used in the manufacture of the belt pre-cleaners.

### **Stainless Steel Components**

In use of the belt pre-cleaner, the specific metal release limits of the Council of Europe (COE) Resolution CM/Res (2013) 9 on metals and alloys used in food contact materials will not be exceeded.

### **US FDA Compliance**

The FGP Belt Pre-cleaner has been certified by the USDA for use in meat, poultry, and dairy operations. The blade material complies with US FDA 21 CFR part 177.1520 "Olefin Polymers, Specifications 2.1 and 2.1 and is suitable for use with all types of food, all conditions of use as detailed in Tables 1 and 2 of 21 CFR Part 176.170.


**This Declaration is for the product specified above. An updated statement will be provided if the information on which the declaration is based changes or regulatory requirements impact on its validity.**

Date: 07/05/2019


Doug Sanders, Director of North American Operations—Flexco Grand Rapids

**Note:** Units equipped with the dual durometer blade are not compliant with EU 1935/2004.

# Section 13 - Health Canada/Santé Canada



Health  
Canada



Santé  
Canada

Health Products  
and Food Branch

Direction générale des produits  
de santé et des aliments

Bureau of Chemical Safety  
Food Directorate  
Health Canada  
251 Sir Frederick Banting Drwy.  
Postal Locator: 2201C  
Ottawa, ON K1A 0K9  
Canada

February 6, 2017

Our File: KP15080703

Jim McKee  
Flexco  
[jmckee@flexco.com](mailto:jmckee@flexco.com)

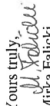
Dear Mr. McKee,


**RE: FGP Food Grade Precleaner (with blades GA075 and GA076)**


This is in response to your email of January 4, 2017, wherein you requested the status of the subject product.

The subject scraper will be used on conveyor belts carrying meat, poultry and dairy products at a maximum temperature of 60°C.


Based on the information submitted, we can advise that we see no reason to object to the use of the subject products as intended, provided they are technically suitable for the proposed end-uses.

Yours truly,  
  
Mirka Falicki  
Senior Scientific Evaluator  
Food Packaging and Incidental Additives Section  
Bureau of Chemical Safety  
Food Directorate  
Health Canada





Health  
Canada



Santé  
Canada

Health Products  
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Direction générale des produits  
de santé et des aliments

Bureau of Chemical Safety  
Food Directorate  
Health Canada  
251 Sir Frederick Banting Drwy.  
Postal Locator: 2201C  
Ottawa, ON K1A 0K9  
Canada

March 15, 2017

Our File: KP15080703

Jim McKee  
Flexco  
[jmckee@flexco.com](mailto:jmckee@flexco.com)

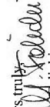
Dear Mr. McKee,


**RE: FGP Food Grade Precleaner (with blade GA077)**

This is in response to your email of March 2, 2017, wherein you provided additional information for the subject product.


The subject scraper will be used on conveyor belts carrying meat, poultry and dairy products at a maximum temperature of 60°C.

Based on the information submitted, we can advise that we see no reason to object to the use of the subject products as intended, provided they are technically suitable for the proposed end-uses.

Yours truly,  
  
Mirka Falicki  
Senior Scientific Evaluator  
Food Packaging and Incidental Additives Section  
Bureau of Chemical Safety  
Food Directorate  
Health Canada



**Note:** Units equipped with the dual durometer blade are not compliant with Health Canada.



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2525 Wisconsin Avenue • Downers Grove, IL 60515-4200 • USA  
Tel: (800) 541-8028 • Fax: (630) 971-1180 • E-mail: [info@flexco.com](mailto:info@flexco.com)

Visit [www.flexco.com](http://www.flexco.com) for other Flexco locations and products.

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