Precision Liquid Fertilizer Solutions

AgXcel 877.218.1981
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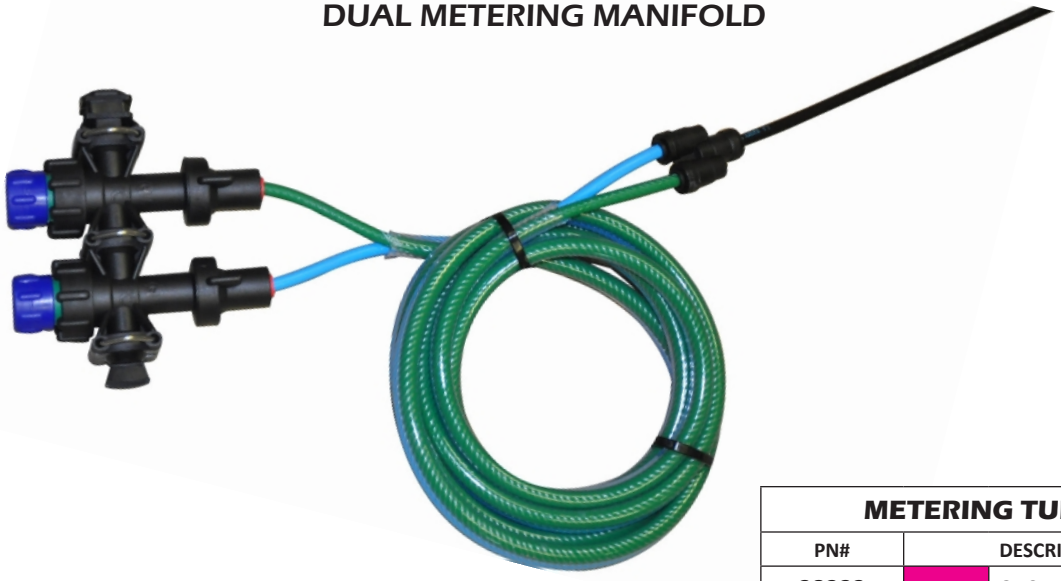
GX6

AgXcel GX6

DUAL METERING MANIFOLD



METERING TUBES	
PN#	DESCRIPTION
38233	GX6MT - PINK
38241	GX6MT - YELLOW
38237	GX6MT - GREY
38242	GX6MT - NAVY BLUE
38243	GX6MT - BROWN
38250	GX6MT - SKY BLUE
38251	GX6MT - GREEN
38245	GX6MT - PURPLE
38246	GX6MT - ORANGE
38247	GX6MT - RED
38248	GX6MT - BLACK

AgXcel

CALCULATOR

Our easy to use, orifice and metering tube calculator is available FREE now on the App Store.

GX6

DUAL METERING MANIFOLD

The AgXcel GX6 system utilizing a dual metering manifold is a great way to plumb an implement to apply starter fertilizer. The GX6 system will also work on other implements when applying low rates of fertilizer and/or high viscosity solutions.

This system will contain everything required to plumb the manifold portion of your system all the way down to the furrow,

These instructions will show you where all the components go. There are some optional fittings included in each plumbing kit, However, the following pages will show you where and why you would need the optional pieces.

The dual body assembly is an important part in the dual metering manifold design. In addition to a check valve to prevent fertilizer from draining when the system is shut off, each check valve has an on/off valve on top of it. These on /off valves allow the operator to turn on only tube 1, only tube 2, or both tube 1 and 2. This provides for three different application ranges, which is especially helpful when using Black Label. Zn fertilizer which has a highly variable viscosity based on temperature changes.

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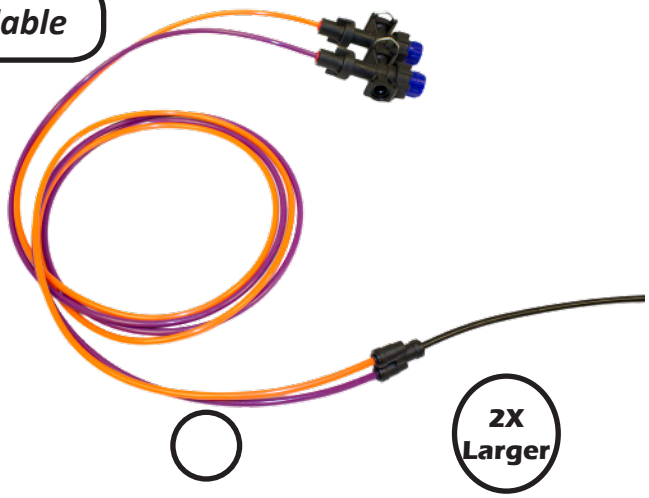
11 sizes available



DUAL METERING SYSTEM BENEFITS

Metering tube provides a larger passage way diameter than a comparable orifice. For a 5 GPA rate on 30" rows, a size 0.046" orifice would be used. For the same rate a 0.110" meter tube that is 8' long would be used. This 8' tube with more than twice the diameter creates a fertilizer system resistant to plugging while providing excellent row to row distribution.

By using two metering tubes, the fertilizer system can handle Black Label ZN Hydrahume and provide proper system pressure as the fertilizer properties change due to temperature, mixtures and other factors.

INFORMATION ONLY

DO NOT OVER TIGHTEN!

When assembling the elbow and/or tee into the adapter casing of check valve body, be careful. It is easy to over tighten, cracking the casing. If purchased as a complete kit a couple of extra adapter bodies are provided.

AgXcel CALCULATOR

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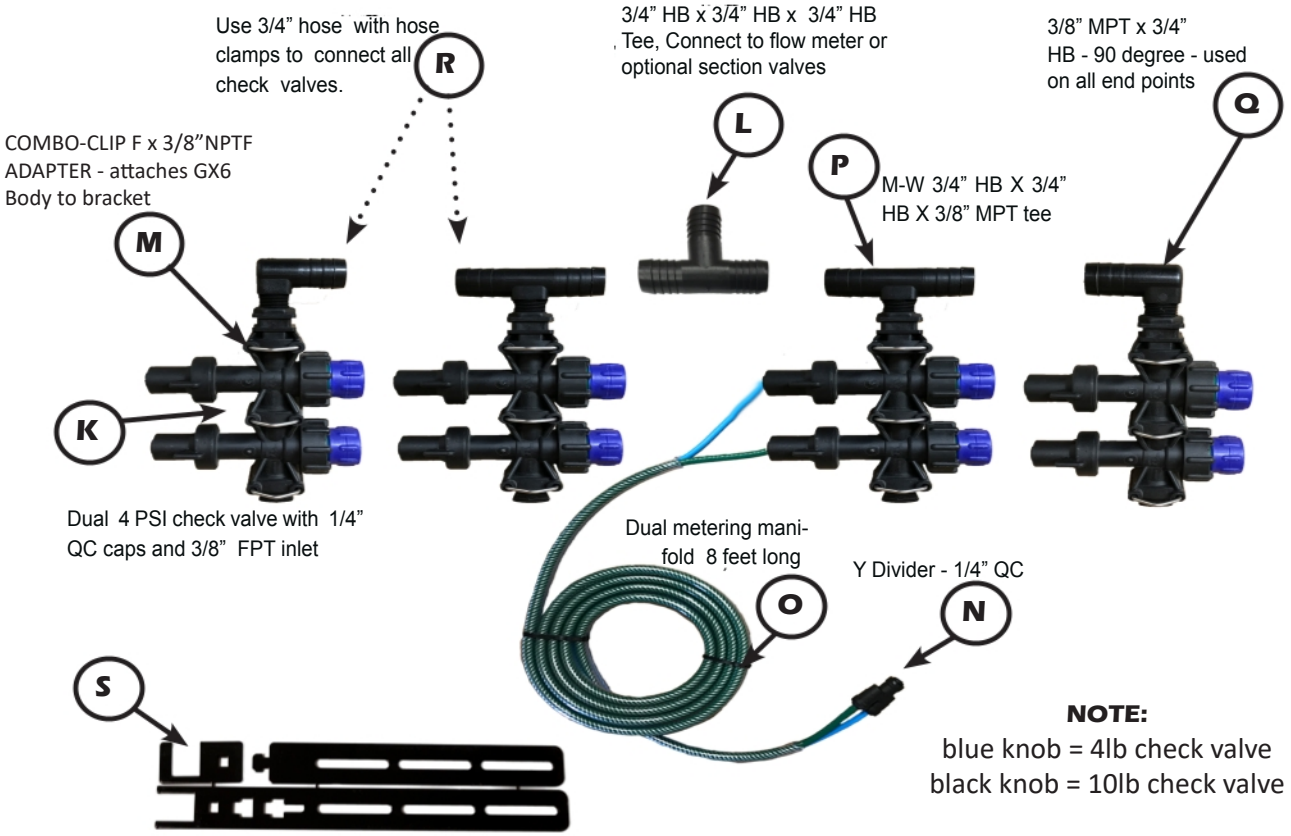
GX6 MANIFOLD ASSEMBLY *see pg.11		
K	55162	GX6_DUALBODYCHKVALVE4# (BODY ONLY - NO INLETS)
	55362	GX6_DUAL BODY W/BRACKET
L	15	3/4" 3 WAY SHANK
M	26427	WILGER F x 3/8"NPTF ADAPTER
N	20121	1/4" QC DIVIDER
	ALT. OPTION 3/8" OD APPLICATOR	
	54011	3/8" QC DIVIDER
	54010	1/4" X 3/8" REDUCER
O	53654	GX6DUALTUBE8FT (DUAL COMES IN GREEN/SKY ONLY) *SEE PG# FOR AVAILABLE SIZES*
P	26148	3/4" 2 WAY SHANK
Q	26147	3/4" HOSE SHANK
R	308	3/4" BLACK HOSE
	19646	SST #12 CLAMPS
S	54044	GX6_ 1ROW BRACKET KIT

PLUMBING DIAGRAM

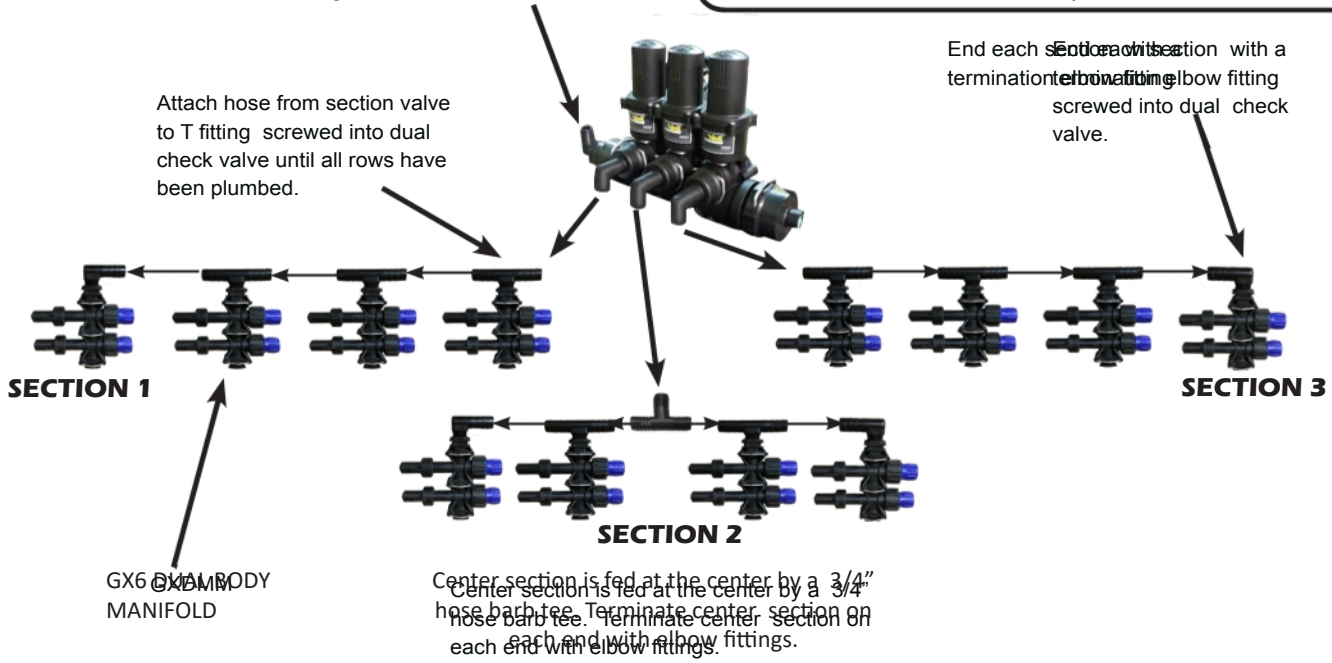
4 Row Planter Shown, add rows as necessary



This general diagram shows the GX6(dual check manifold) assembly mounted on a planter tool bar. The check valve and bracket are very flexible in their mounting. The GX6 can mount behind, directly over, or in front of the tool bar (see pg. 12 for examples). The GX6 can be put in the bracket facing up & down or sideways (shown). In addition the steel bracket could be rotated 90 degrees and clamp around the bar. The multiple slots in the bracket are used to mount to any tube 7x7 inches or smaller. Study your planter to determine the best GX6 mounting to use on each row.

SECTIONAL PLUMBING DIAGRAM

12 Row Planter Shown with optional sectional controls



TIP: For a 2 section plumbing system, simply omit the center section and plumb similar to the outside 2 sections in the above diagram.

Pro Tip!

DO NOT OVER TIGHTEN!

When assembling the elbow and/or tee into the adapter casing of check valve body, be careful. It is easy to over tighten, cracking the casing. If purchased as a complete kit a couple of extra adapter bodies are provided.

MOUNTING OPTIONS

EXAMPLE 1:
Use the long bracket on the top of a bar. The check valve is mounted vertically. The liquid supply hose is ran directl on the front side of the bar. The "L" bolt is placed in slots to clamp on a 4 x 6 inch tube.

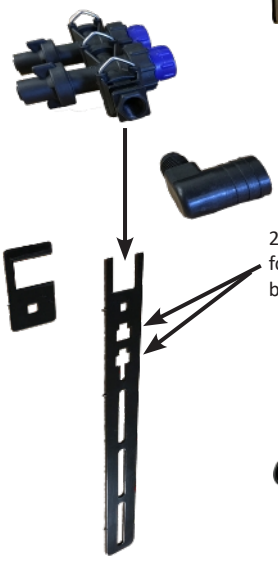
EXAMPLE 2:
Use the long bracket on the rear of a bar. The check valve is mounted over the top of the bar. The supply line would run above and behind the bar. The short bracket is placed in the notch to mount the check valve closer to the bar.

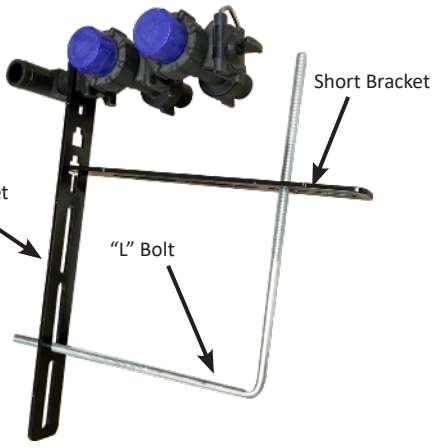
EXAMPLE 3:
Use the long bracket on the front of a 3 x 7 bar (vacuum tube on some planters). Mount the check valve hanging forward of the bar. The supply line will run directly over the bar. The excess bolt and bracket length can be cut off.

ASSEMBLY STEPS

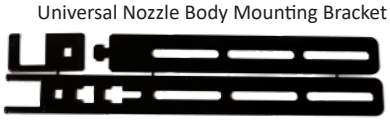
STEPS TO MOUNT EACH CHECK VALVE TO MOUNTING BRACKET

1. Screw the 3/8" MPT x 3/4" HB tee or elbow into the check valve using blue thread sealer. Orient the hose barb to run the 3/4" hose down the planter tool bar.
2. Insert the check valve into the "C" notch in the end of the bracket, according to how you want the check valve to mounged on your planter. Orient the wire clips up or to the side for easiest access.
3. Slide the small "C" clamp bracket around the check valve to lock it in place.
4. Install the 1/4" bolt and nut to secure the "C" clamp plate around the check valve.
5. Mount the check valve on the bar. Hold the check valve and long bracket assembly on the toolbar. Slide the tab on the front of the short bracket into the upper or lower notch on the long bracket.
6. Slide the 'L" bolt into the appropriate slots on the brackets for your toolbar size. Tighten the 1/4" nuts to hold the bracket in place.





Universal Nozzle Body Mounting Bracket



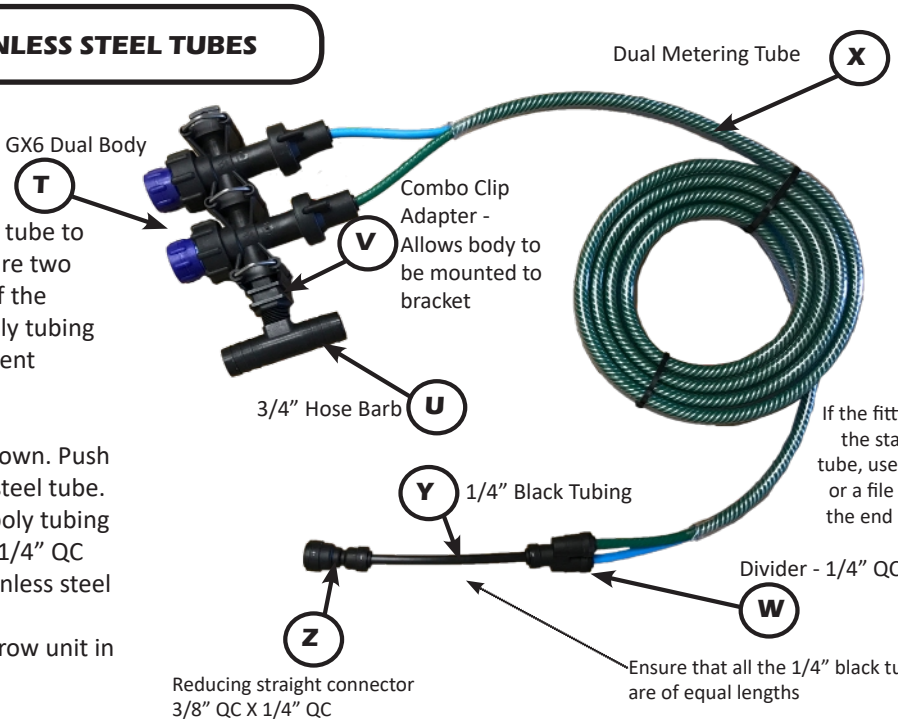
The long, short & clamp bracket comes as one part connected by break-off tabs.

DO NOT OVER TIGHTEN!
When assembling the elbow and/or tee into the adapter casing of check valve body, be careful. It is easy to over tighten, cracking the casing. If purchased as a complete kit a couple of extra adapter bodies are provided.

INSTALLATION TO STAINLESS STEEL TUBES

When using a 3/8” OD stainless steel tube to apply fertilizer to the ground, there are two options for delivery tube plumbing. If the stainless tube ID is less than 1/4” (poly tubing will not fit inside tube) this attachement method must be used:

1. Use the 1/4” x 3/8” QC fitting shown. Push the 3/8” end onto the stainless steel tube.
2. Use a short piece of 1/4” black poly tubing to connect the “Y” fitting to the 1/4” QC end of reducer fitting on the stainless steel tube.
3. Zip all tubing to the planter and row unit in as many locations possible



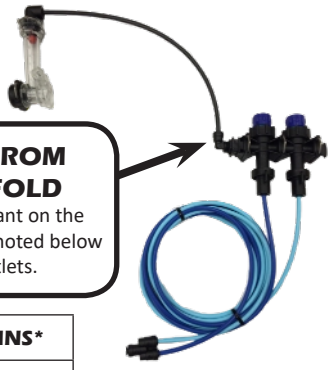
TIP:
If the fitting slips off the stainless steel tube, use sandpaper or a file to roughen the end of the tube slightly.

GX6 MANIFOLD ASSEMBLY		
T	55162	GX6_DUALBODYCHKVALVE4# (BODY ONLY - NO INLETS)
	55362	GX6_DUAL BODY W/BRACKET
U	26147	3/4” HOSE SHANK
	26148	3/4” 2 WAY SHANK
	26149	3/4” 3 WAY SHANK
V	26427	WILGER F x 3/8”NPTF ADAPTER
W	20121	1/4” QC DIVIDER
	ALT. OPTION 3/8” OD APPLICATOR	
	54011	3/8” QC DIVIDER
	54010	1/4” X 3/8” REDUCER
X	53654	GX6DUALTUBE8FT (DUAL COMES IN GREEN/SKY ONLY) *SEE PG 12 FOR AVAILABLE SIZES*
Y	19920	EVA14 - 1/4” TUBING
Z	38240	QC7 = 3/8 PTC TO 1/4” PTC

For thin wall stainless steel tubes, you can simply push the 1/4” black tubing all the way throught the stainless steel tube so fertilizer will run directly from manifold onto the ground.

INSTALLATION TO REBOUNDER SEED COVER

1. Mount the rebounder seed cover according to the instructions sent with it.
2. Route the tube included in the rebounder optional fittings kit. Make sure all lengths are equal. The rebounder optional kits come with 30” of 1/4” poly tubing.
3. Attach the 1/4” poly tube to the 1/4” QC “Y” divider fitting.
4. Zip all tubing to the planter and row unit in as many locations as possible



IF FEEDING GX6 SYSTEM FROM A FLOATING BALL MANIFOLD

The inlet to each dual body will be dependant on the outlet on the visual indicators. The adapters noted below are available in the corresponding outlets.

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38248	GX6MT - BLACK

DEFAULT INLET ADAPTERS FROM VISUAL FLOW COLUMNS		
	PN#	DESCRIPTION
	20395	QC13 = 1/4” QC TO 3/8” MALE NPTF
	54442	QC14 = 1/4” QC TO 3/8” NPTF
	54001	QC11 = 3/8 NPTF X 3/8” QC 90°
	32264	3/8” MNPT X 3/8” HB POLY
	32343	3/8”MNPTX3/8”HB POLY ELBOW

VISUAL PARTS INDEX

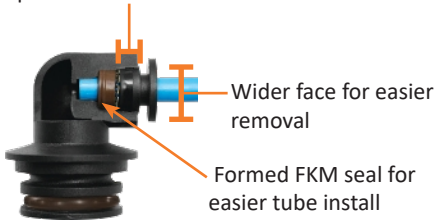
This is a visual index of our most common components and replacement parts for ease of ordering. If you do not see the component used in your kit, please contact our office for assistance.

GX6 COMPONENTS		
	PN#	DESCRIPTION
	26148	3/4" 2 WAY SHANK
	26149	3/4" 3 WAY SHANK
	26147	3/4" 1 WAY SHANK
	25887	FKM O'RING IN COMBO END ADAPTERS
	26337	GX6 10# END VALVE BODY - NO FLOW THRU (NO CAPS)
	37592	GX6 4# END VALVE BODY - NO FLOW THRU (NO CAPS)
	55005	GX6 DUAL BODY CHECK VALVE (10# -BLK) ASSEMBLED UNIT (pictured)
	55162	GX6 DUAL BODY CHECK VALVE (4# -BLUE) ASSEMBLED UNIT
	20121	1/4" DIVIDER

** This redesign also applies to the radial lock caps on check valves **

NEW

The 1/4" Push-in tube outlets have received a full redesign for heavier duty sealing and easier release.



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GX6 COMPONENTS		
	PN#	**DESCRIPTION**
	26330	GX6 10# THRU VALVE BODY (NO CAPS)
	26612	GX6 4# THRU VALVE BODY (NO CAPS)
	25682	LOCK U-CLIP
	26455	COMBO CLIP PLUG
	26427	COMBO CLIP ADAPTER X 3/8" NPT
	25803 **26410**	VITON DIAPHRAGM FKM DIAPHRAGM (NEW STYLE - SEE BELOW)
	54044	GX6 MOUNTING BRACKET W/HARDWARE & L BOLT
	38171 **25953** **25951** **25712**	RADIAL CAP 1/4"QC (components below - not shown) O'RING SEAL/STRAINER RADIAL CAP OUTER O'RING (FKM) WILGER 1/4" COLLET
	54011 **54010**	3/8 PTC QUICK CONNECT DIVIDER 1/4 PTC X 3/8 STEM REDUCER

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NEW

OLD

Two piece Diaphragm & pressure pad o-ring

PN# 25803
Viton Only

PN# 25686
Viton Only

NEW

One piece Integrated Diaphragm/o-ring

PN# 26410
FKM Only

** Premium Viton o-rings, seals and assemblies will continue to be available **

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