FAST FILL SYSTEMS

Technical Catalog

2016

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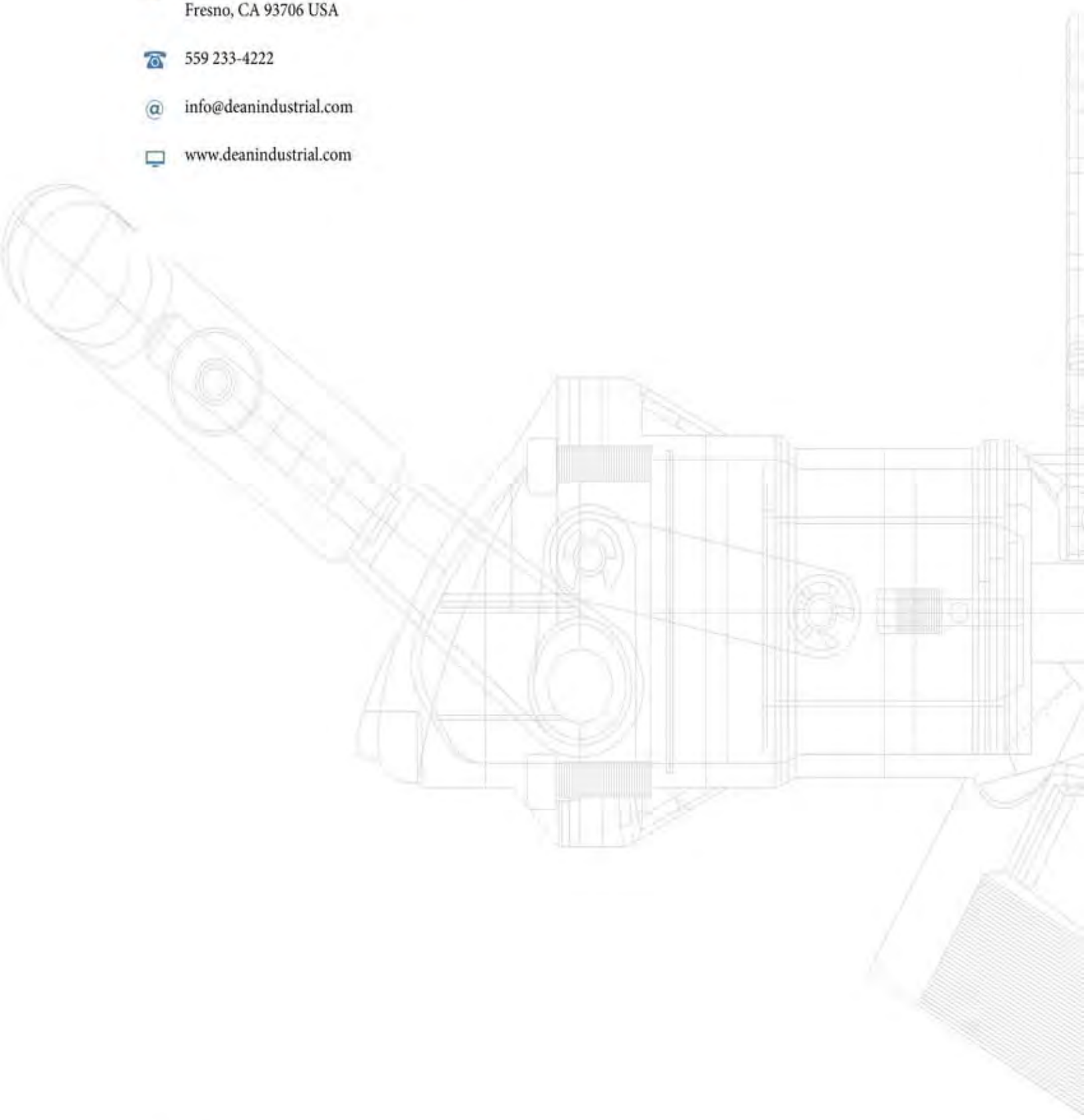

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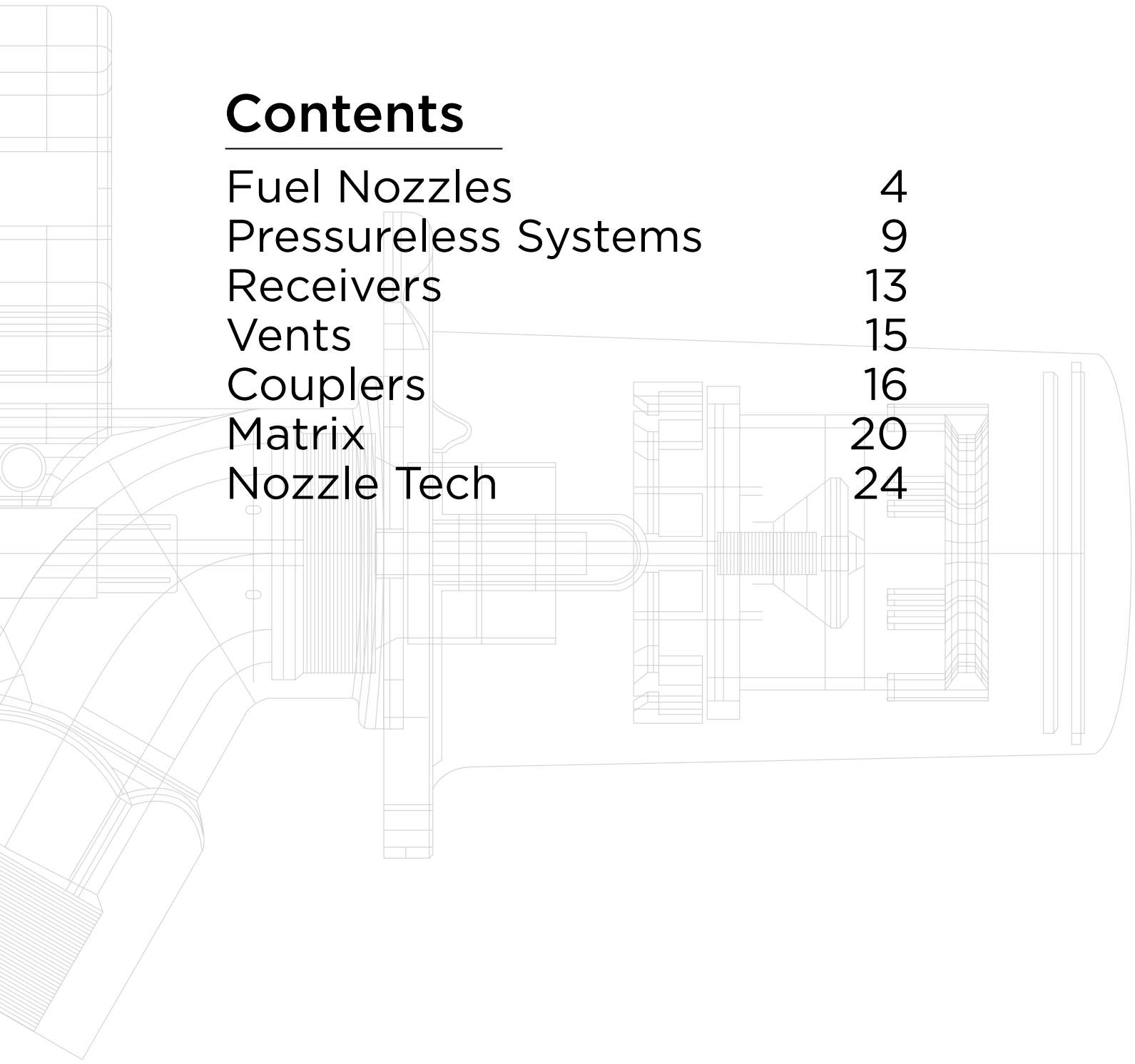
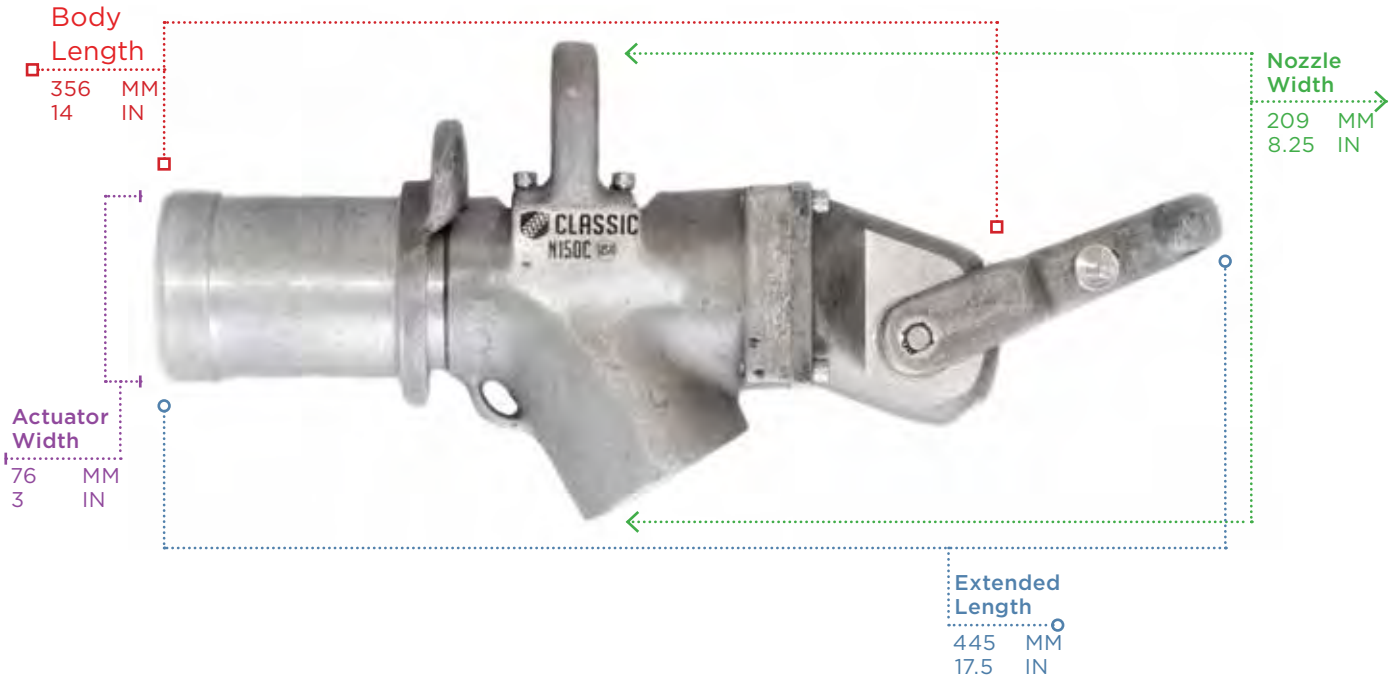


N150Cp

Classic Diesel Fuel Nozzle

The Classic nozzle contains traditional components that have been in use for decades. This all-metal nozzle provides the operator with a familiar, proven piece of quality equipment that has a long history of being the standard nozzle of the heavy equipment industry.



Max Operating Pressure		Max Flow Rate		Min Flow Rate		Fuel Inlet Port		Weight		Latching Mechanism
5.17	BAR	567	LPM	94.5	LPM	38.1	MM	3.515	KG	Metal Latching
75	PSI	150	GPM	25	GPM	1-1/2	IN	7.75	LBS	Dogs

N150PBp

Pitboss Diesel Fuel Nozzle

The PitBoss diesel fuel nozzle (N150PB) is perfect for users looking for a durable and forgiving diesel fueling solution.
The Elastodog latching mechanism improves latching under harsh conditions and the piston-driven shutoff engagement improves longevity.

- Powder coated non-slip finish for better grip.
- All-metal construction and fewer internal components.
- Plugs are available and strongly recommended.

Variations

Standard with plug	N150PBp
Underground mining	N150PBU
Brine Resistant	N150PB-BR

Max Operating Pressure		Max Flow Rate		Min Flow Rate		Fuel Inlet Port		Weight		Latching Mechanism
5.17	BAR	567	LPM	94.5	LPM	38.1	MM	2.948	KG	Elastodog
75	PSI	150	GPM	25	GPM	1-1/2	IN	6.5	LBS	Clips

N150PSLp

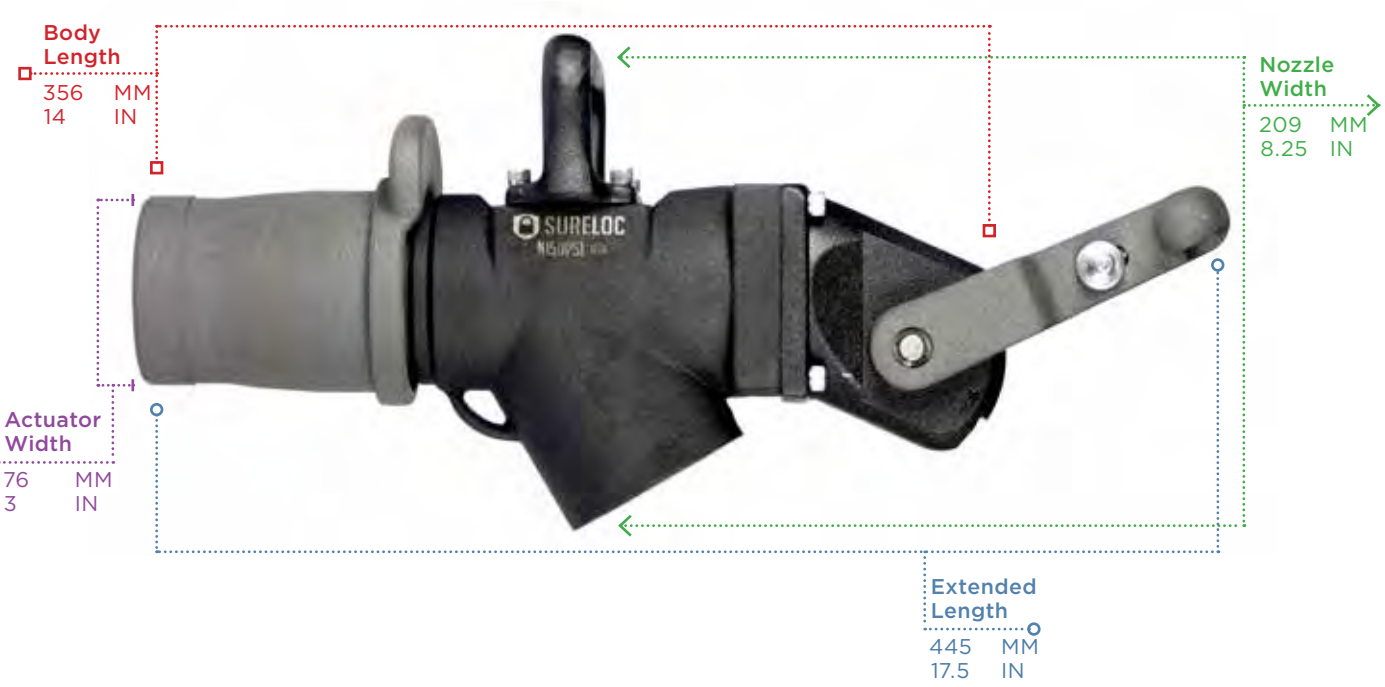
Piston Sureloc Diesel Fuel Nozzle

The SureLoc diesel fuel nozzle has proven reliable even in the harshest environments and is customizable to meet specific needs. Its durable, all-metal construction and thick wall main housing makes it optimal for heavy duty operations. The latching mechanism consists of twelve stainless steel ball bearings for a secure latch. Available with either piston or diaphragm control shut-off and two flow rate and inlet options, it is our most versatile nozzle.

- Powder coated non-slip finish for better grip.
- Built tought to handle the harshest conditions.
- Ball bearing latching for a secure connection.
- Withstands extreme temperatures.

Variations

Standard with plug	N150SLp
Diaphragm Driven	N150SL*
2” Fuel Inlet	N150SL-2*
2” High Flow 800 LPM/ 211 GPM	N150SL800**
PSL Arctic Nozzle	N150PSL800
	N150ARTCp



Max Operating Pressure		Max Flow Rate		Min Flow Rate		Fuel Inlet Port		Weight		Latching Mechanism
5.17	BAR	567	LPM	94.5	LPM	38.1	MM	3.6	KG	Ball Bearing
75	PSI	150	GPM	25	GPM	1-1/2	IN	7.9	LBS	
		**800 Series		**800 Series		**800 Series				
		800	LPM	567	LPM	50.1	MM			
		211	GPM	150	GPM	2	IN			

* The diaphragm driven models are now only offered on rebuilt models. They are no longer sold new.

N150Tp

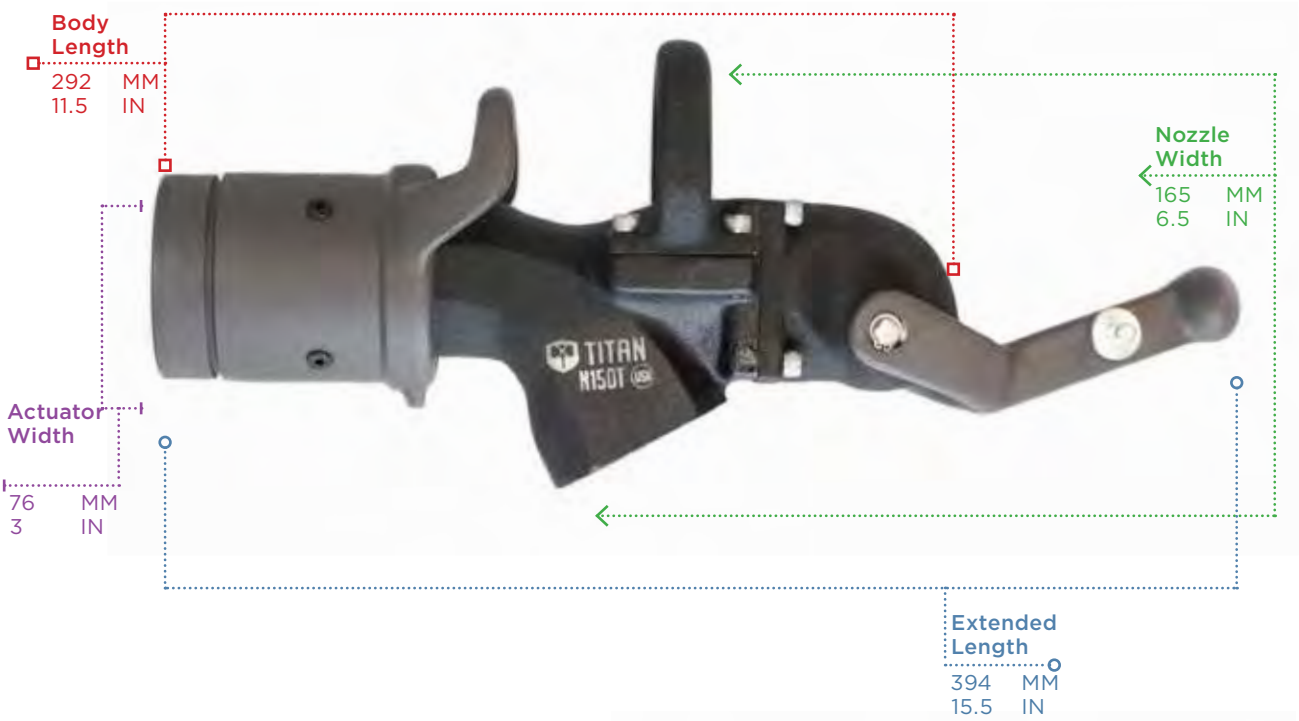
Titan Diesel Fuel Nozzle

The Titan diesel fuel nozzle blends elements from our Pitboss fuel nozzle with a compact design to create the most compact, lightest diesel fuel nozzle in the industry. In addition to the Elastodog latching mechanism and piston-driven shutoff, the field replaceable piston cartridge allows the end-user to bring a worn nozzle back to life.

- Powder coated non-slip finish for better grip.
- Sturdy build for greatly increased lifespan.
- Elastodog latching mechanism.
- Withstands extreme temperatures

Cartridge

In field repair cartridge	N150TRC



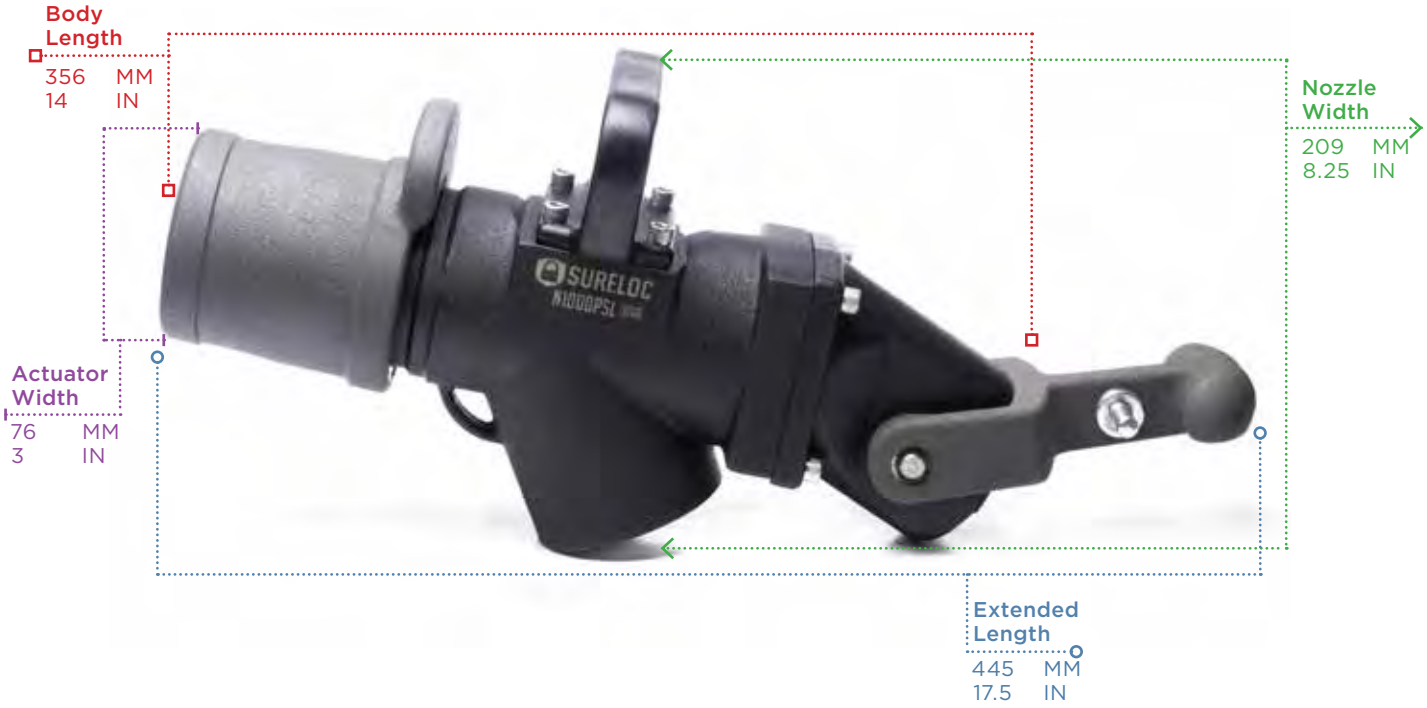
Max Operating Pressure		Max Flow Rate		Min Flow Rate		Fuel Inlet Port		Weight		Latching Mechanism
5.17	BAR	567	LPM	94.5	LPM	38.1	MM	2.645	KG	Elastodog
75	PSI	150	GPM	25	GPM	1-1/2	IN	5.65	LBS	Clips

N1000PSL

Piston Sureloc Diesel Fuel Nozzle

Our latest, state of the art nozzle is rated for flow rates up to 1000 LPM (265 GPM), includes 2" NPT threads for an easy retrofit for exiting traditional fueling receivers and vents. Utilizing our robust Piston Sureloc design the N1000PSL uses a 12-ball stainless ball-bearing latching mechanism ensuring a secure latch to the receiver.

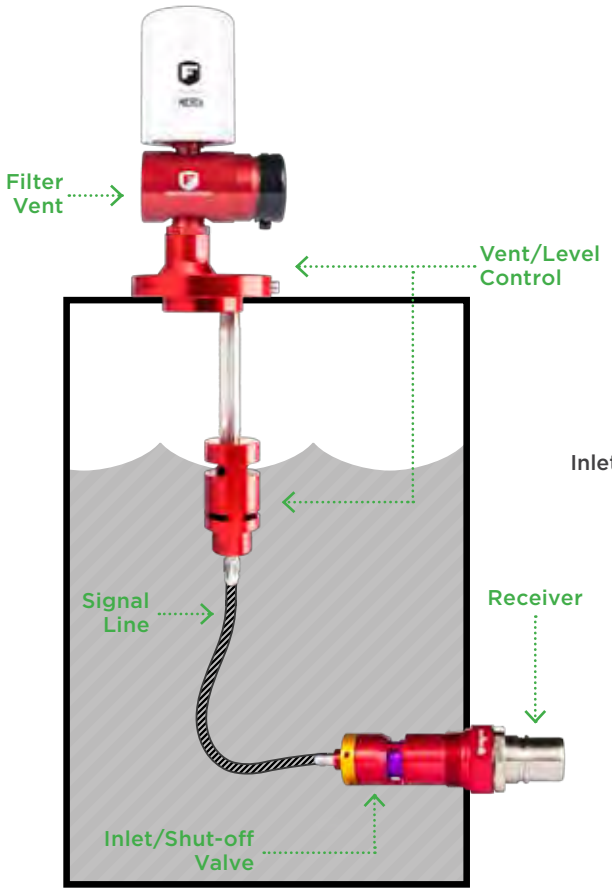
- Powder coated non-slip finish for better grip.
- Sturdy build for greatly increased lifespan.
- Ball bearing latching for secure connection.
- Withstands extreme temperatures



Max Operating Pressure		Max Flow Rate		Min Flow Rate		Fuel Inlet Port		Weight		Latching Mechanism
5.17	BAR	1000	LPM	94.5	LPM	38.1	MM	3.6	KG	Ball Bearing
75	PSI	263	GPM	25	GPM	1-1/2	IN	7.9	LBS	

Fast Fill Pressureless System Advantages

- Automatic shut-off without inducing pressure into the tank.
- Positive shut-off system senses the fulid level in the tank.
- Designed to work best with our SureLoc and PitBoss pressure sensitive nozzles.
- Can be fitted with a pressure switch and time-delay relay to operate with non-pressure sensitive nozzles.
- Pressure switch and time-delay relay act as a safeguard against dead-head conditions once the shut-off valve closes.



PLA150-M VLCE

Inlet Shut-Off Valve

The vent/level control system operates using 5" long, 1/2"NPT piping, allowing for compatibility with more than 80% of heavy equipment used worldwide. The 5" length pipe can also be extended by changing the length of the stem pipe to reach the desired shut off level. They can be ordered with a 5", 7" or 12", or can be custom made to suit your needs. The VLCE includes extra 1/2" pipe nipples that comes in 2" and 3" lengths and the necessary Loctite thread lock to secure your pipe.

Other features include external and internal signal line ports and integrated roll over spill protection. The VLCE is precisely engineered to function on the largest tanks with only 4" of operating space. 16" of clearance required for installation.

PL-P-6

Signal Line

Our Teflon and stainless steel braided signal line can be used both internally and externally. Standard length of 10'. Custom sizes available.

Max Operating Pressure		Min Operating Pressure		Min Flow Rate		Max Flow Rate		Diesel Fuel Nozzle Shut-Off Pressure	
517	kPa	35	kPa*	95	LPM	568	LPM	48	kPa
75	PSI	5	PSI	25	GPM	150	GPM	7	PSI
						800	LPM*		
						200	GMP*		

* Requirement at the nozzle. Additional plumbing between the pump and the diesel fuel nozzle will add additional pressure drop to the system.

*Flow rates of 200 GPM/ 800 LPM possible when used with diesel fuel nozzles rated for such, e.g. N150SL800

High Flow
Pressureless

PLA1000-M VLCE

When combined with the N1000PSLP nozzle, and our PLA1000-M SV, flow rates of up to 1000 LPM are achievable. With pressureless operation, this system provides your operators a clean & safe way to refuel high volume applications. With increased flow around the closed-cell encapsulated foam float, our system mantains reliability at higher flow rates. Other features include external and internal signal line ports and integrated roll over spill protection. The VLCE is precisely engineered to function on the largest tanks with only 4" of operating head space. (16" of clearance required for installation.)

Features

- Automatic shut-off without inducing pressure into the tank.
- Positive shut-off system senses the fluid level in the tank.
- Diesel-resistant closed-cell foam float for shut-off.
- 2" NPT easily fits most tank applications.

High Flow
Pressureless

PLA1000-M SV

This high flow reciever can handle the most demanding high volume applications. When paired with an N100PSLP nozzle and our PLA1000-M VLCE. Made of extremely durable nickel-plated steel, this receiver will last in the harshest evironments. The new enclosed spring design smooths fluid flow to prevent vibrations caused by high flow rates.

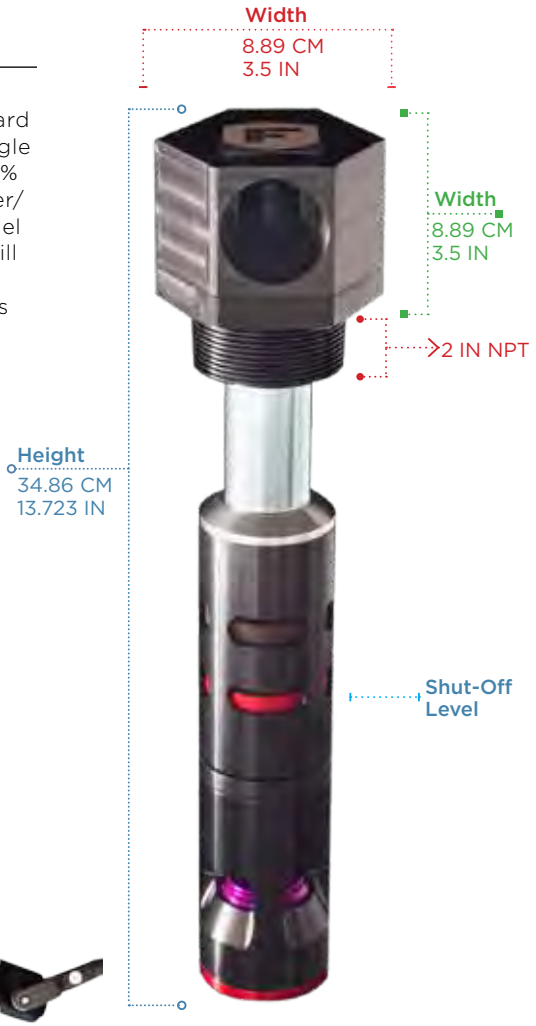
Max Operating Pressure		Safety	Construction	Time Saving	Economic
5.17 75	BAR PSI	Eliminates potential fuel spray.	Nickel plated steel. Anodized aluminum.	Replace receiver without draining tank.	Prevents fuel theft.

These items must be used with the N1000PSLP Nozzle to achieve the 1000LPM flow rate.

PLA80-SVLC

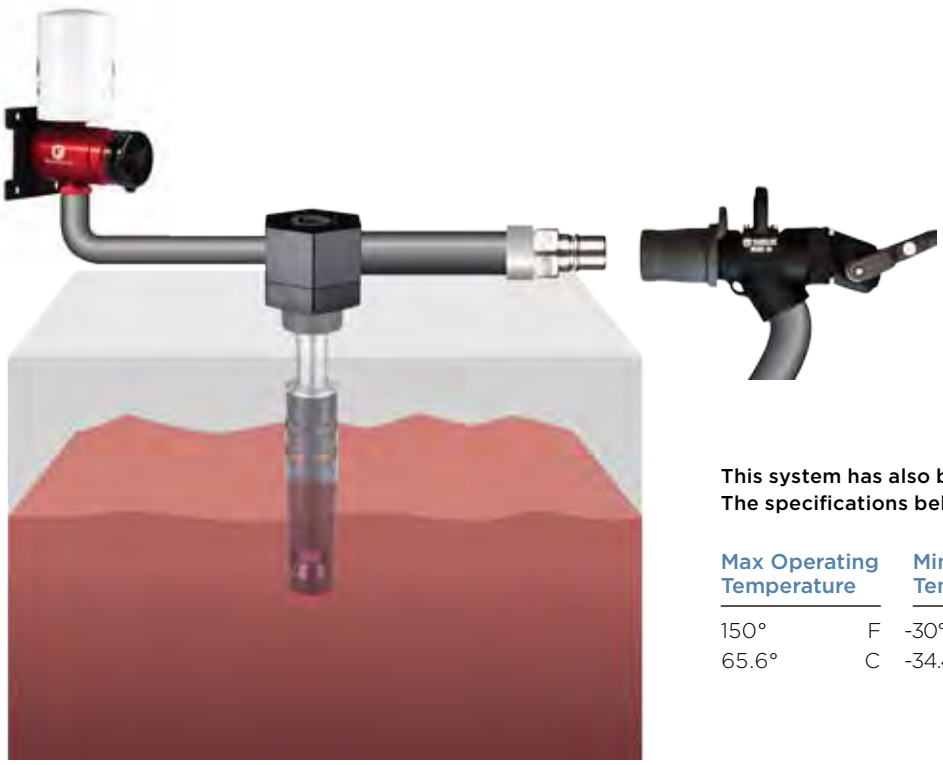
Small Tank Pressureless

The PLA80 brings Pressureless fueling to applications where it was once unavailable. This all-in-one drop-in system fits standard 2" NPT inlets and enables individual tank fill and shutoff for single or multi tank configurations. Once the fuel level reaches 90-95% capacity, each tank will automatically shut off, eliminating under/over filling. The auto shut-off feature works with all standard fuel nozzles (up to 80 GPM). With filtered venting and a dry break fill point, contamination is dramatically decreased. This product is ideal for agriculture, small construction, oil extraction and mass transit equipment because of its compact design and ease of installation.



Features

- Fills and vents through the same unit
- Completely pressureless operation
- Automatic independent tank shutoff
- Remote receiver mounting
- Remote or direct filter vent mounting
- 1-1/4" FNPT fuel inlet threads
- 1" FNPT vent port threads
- Standard weight: 3.92 lbs | 1.78 kg



This system has also been adapted to work with hydraulic fluid. The specifications below are for the PLA80 Hydraulic Application.

Max Operating Temperature		Min Operating Temperature		Min Operating Pressure	
150°	F	-30°	F	125	PSI
65.6°	C	-34.4°	C		

Max High Flow Rate		Min High Flow Rate		Max Standard Flow Rate		Min Standard Flow Rate		Max Operating Temperature		Min Operating Temperature	
302	LPM	151	LPM	151	LPM	94.5	LPM	150º	F	-30º	F
80	GPM	40	GPM	40	GPM	20	GPM	65.6º	C	-34.4º	C

PLA150-M SV

Inlet Shut-Off Valve

The typical inlet/shutoff valve for a Pressureless system. Designed to be mounted directly to the tank. Requires 2" NPT on the tank and 8-10" of space for installation. 211 GPM max flow rate. A receiver may be mounted directly or remotely to the valve (see AD150 and AD150J).

PLA150-M SVEBH

Inlet Shut-Off Valve

Flange mounted shutoff valve with 6 bolt pattern designed to replace the FFF5C bolt-on bellhousing. External #6 JIC signal line connection.

PLA150-M RRM2

Remote Mount Can

Designed to remotely mount the entire shutoff valve and receiver. Receiver (R150CVRc-J) is included. External #6 JIC signal line connection.

PLA150-M SV61-E

Inlet Shut-Off Valve

Flange mounted shutoff valve with 6 bolt 5-3/4" tank mounting pattern. and 2" Code 61 hose connection for remote mounted receiver. External #6 JIC signal line connection.

PLA150-M SVFE

Inlet Shut-off Valve

Flange mounted shutoff valve with 6 bolt 5-3/4" pattern. Includes 2-Piece direct mount receiver and external #6 JIC signal line connection.

PLA150-M EP

Evac Port

Receiver replacement evacuation port allows draining of the fuel tank from the standard fill point using a Fast Fill Systems diesel fuel nozzle or our N150SB bulk transfer nozzle.

PLA150-M VF

Receiver Flange

CAT 120mm 6-bolt vent flange

AD150J

2" JIC Adaptor

Used to adapt from the proprietary thread in our shutoff and check valves to a 2" Male JIC.

AD150

2" NPT Adaptor

Used to adapt from the proprietary thread in our shutoff and check valves to a 2" Female NPT.

N150SB

Bulk Nozzle

Provides a higher flow rate than conventional high-flow nozzles for bulk filling. Constructed from aluminum. 12 stainless steel latching balls, 2 wiper seals, and actuating ring with non-slip knurled surface.

R150-TL70-J

Twist Lock Receiver

2 Piece .70mm "Twist Lock" receiver for pressureless applications.

PLA150-M PTF

Plastic Tank Adaptor

2" NPT adaptor is designed for plastic fuel tanks. Provides the 2" NPT necessary for Pressureless systems.

PLA150-M PTSF

Plastic Tank Adaptor

2" NPT adaptor for plastic fuel tanks. Works well with CAT plastic tanks and fits most CAT splash fill caps.

PLA150-M RF

Receiver Flange

2" NPT 6-bolt pattern receiver flange fits CAT 5 3/4" PT#221-5303

S150, S512, S200, S215

Straight Hose Swivel

Straight hose swivels with all aluminum construction.

A150A, A150B, A150C

Fuel Adapter

Used to splash fill a tank with any fast fill nozzle.

R150SW

Deep Socket Tool

The R150SW, 2-1/2" deep socket tool is used to install new recievers and remove worn down or damaged receivers.

AB2

Breakaway Coupler

Hose safety breakaway coupler with female NPT threads. Available in following sizes: 1", 1.25", 1.5", 2", 3", and 3.25"

FFF4C

Weld-On Flange

Weld-on flange which provides a recessed, protected fill point. The flange has 2" female threads and accepts the R150S standard fuel receivers, R150CV, or PLA 150-M SV.

FFF5C

Bolt-On Flange

Bolt-on flange which provides a recessed, protected fill point. The flange has 2" female threads and accepts the R150S standard fuel receivers, R150CV, or PLA 150-M SV. 5-5/16" x 7/16" bolt pattern.

SB100

Service Box

Boxes can be configured to house any number or type of receivers. By consolidating the location of couplers, speed and safety are increased.

R150CVc

Check Valve Receiver

Our patented Check Valve Receiver allows fuel to flow in only one direction. Once installed, receivers can be replaced without draining the tank, spray back from poppet malfunction is eliminated, and fuel theft is minimized. The Check Valve Receiver is compatible with all major manufacturers' nozzles.

Max Operating Pressure		Safety	Construction	Time Saving	Economic	Replacement Receiver
5.17 75	BAR PSI	Eliminates potential fuel spray.	Nickel plated steel. Anodized aluminum.	Replace receiver without draining tank.	Prevents fuel theft.	 R150CVRc

R150CVSW

Check Valve Wrench

This Check Valve Installation wrench facilitates installation or removal of the R150CV. The open back design also allows it to be used with R150SW to install or remove the R150CVR.

R150Sc

Standard Receiver

Our standard diesel fuel receiver is made from solid steel and is nickel-plated to ensure a long service life. Designed to accommodate flow rates up to 800 LPM (211 GPM), Fast Fill Systems fuel receivers are completely compatible with all major manufacturers' diesel fuel nozzles. Available shutoff options: 7, 9, 11, and 12 PSI.

Max Operating Pressure		Compatibility	Construction	Durability	Customizable	Available in Aluminum
5.17 75	BAR PSI	Compatible with all major fuel nozzle manufacturers.	Nickel plated steel. Anodized aluminum.	Aluminum poppets instead of plastic.	Custom shut off pressures available.	

Fuel Vents

Standard diesel fuel vents are crucial to the performance of your fuel nozzle. A standard fuel system needs tank pressure to cause the nozzle to shutoff. Our all-metal construction fuel vents provide excellent durability and versatility with more than 100 different configurations available. A 2 " NPT port on top of tank is required.

V150

Standard Fuel Vent

The basic fuel vent available with a standard 5", 7" (V150L7), and 12"(V150L12) stems.

V150D

Anti Vandalism Flange

Reduces fuel theft and tank vandalism. The under-side is threaded with bolt pattern on top which locks the vent in place. Bolts not included. Not compatible with V150W.

V150SR

Safety Relief Fuel Vent

Used with the V150 where additional over-fill relief is needed. A safety relief valve protects the tank from over filling if a nozzle fails. Opens tank when pressure hits over 13 PSI.

V150W

Whistle Adaptor

Whistles when tank reaches internal pressures of 5-7 PSI. This creates a clear signal to operator that nozzle should be shutting off.

V150A

Half Coupling

This vent is commonly used in retrofit applications where the required 2" NPT port did not exist (Requires welding). 2" FNPT steel half coupling included.

V150C

NPT Adaptor

Allows for easy hose attachment with a 1" FNPT swivel adapter on the opening of the vent cap. This method is more durable and seals tighter than the hose barb attachment.

V150B

Bolt-on Flange

Commonly used where 2" NPT ports are not available. Drill and tapping is required. Bolt on 2" NPT flange included. Nitrile seal included, bolts are not.

V150H

High Flow Vent

Designed for fuel rates exceeding 150 GPM, capable of reaching 300 GPM. Compatible with all vent configurations.

Check Valve Filtered Fuel Vents

Protect your tank from atmospheric dust accumulation. The dual check valve system allows air to freely vent from the tank through the large vent check valve at rates up to 300 GPM, and directs all air entering the tank through the 3 micron filter media.

FFV150-PL

Direct Mount Filter Vent

1" NPT direct mount configuration of our filter vent.

FFV150-LP

Direct Mount Filter Vent

Low profile 1" NPT direct mount configuration of our filter vent.

FFV150

Remote Mount Filter Vent

Universal mounting bracket for easy installation. Used for remote mounting.

FFV150-HV VB

High Volume Vacuum Break

Vacuum break check valve for implosion protection. Discharges air at over 300 GPM. 2" Female NPT Inlet port. Vacuum break crack pressure: 1.5 PSI. Exhaust and breather check valve crack pressure: 0.25 PSI.

Standard Couplers

Crankcase
Coolant
Hydraulic
Transmission

Four widely used couplers have been the industry standard for decades. They were designed for transferring the primary fluids used on heavy equipment: Crankcase, Coolant, Hydraulic and Transmission fluids. Nozzle and receiver pairs only connect with their corresponding size and color.

OS100

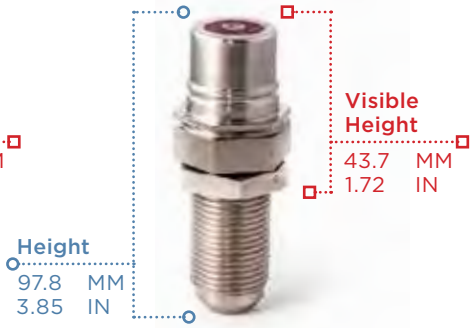
Oil Sampling Valve

The oil sampling valve is used with an existing crankcase line to allow oil samples to be drawn.

Crankcase

N100p

R100c



R100Jc
#12 JIC

Operating Pressure		Burst Pressure		Flow Area		Nozzle Thread		Receiver Thread		Latching Mechanism
34.5 500	BAR PSI	103.4 1500	BAR PSI	.3051	SQ IN	3/4”	MNPT	3/4”	MNPT	Pin latching

Coolant

N200p

R200c

R200Jc
#12 JIC

Max Operating Pressure		Burst Pressure		Flow Area		Nozzle Thread		Receiver Thread		Latching Mechanism
34.5 500	BAR PSI	103.4 1500	BAR PSI	.1122	SQ IN	1/2”	MNPT	1/2”	MNPT	Pin latching

#12 JIC Receivers

The bases on these receivers have extended JIC threads that can be fitted into a bulkhead. A female JIC hose can then be attached on the other side of the bulkhead.

Hydraulic

N300p
***N300Bp**

R300c

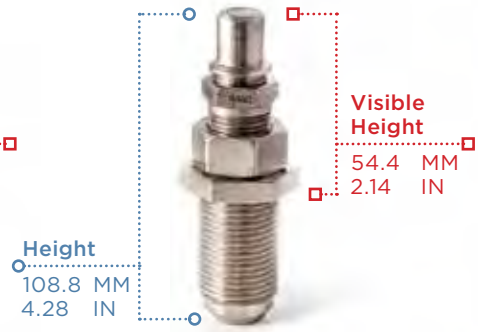
R300Jc
#12 JIC

Operating Pressure		Burst Pressure		Flow Area		Nozzle Thread		Receiver Thread		Latching Mechanism
34.5	BAR	103.4	BAR	.2212	SQ IN	3/4"	MNPT	3/4"	MNPT	Dog Teeth
500	PSI	1500	PSI	*.3051	SQ IN					*Ball Bearing

Transmission

N400p

R400c



R400Jc
#12 JIC

Max Operating Pressure		Burst Pressure		Flow Area		Nozzle Thread		Receiver Thread		Latching Mechanism
34.5	BAR	103.4	BAR	.1136	SQ IN	1/2"	MNPT	1/2"	MNPT	Dog Teeth
500	PSI	1500	PSI							

R Series Couplers

Crankcase
Coolant
Hydraulic
Transmission

Used for remote bulk-head mounting for common fluids. The receiver's dual threads are designed to allow bulk-head mounting using the male thread and connection of a hose to the leak-free female ORB thread. R series couplers DO NOT connect with Standard couplers.

Crankcase

N100Rp

R100Rc

Operating Pressure		Burst Pressure		Flow Area		Nozzle Thread		Receiver Thread		Latching Mechanism
34.5	BAR	103.4	BAR	.3640	SQ IN	3/4"	FNPT	3/4"	FNPT	Ball Latching
500	PSI	1500	PSI							

Coolant

N200Rp

R200Rc

Max Operating Pressure		Burst Pressure		Flow Area		Nozzle Thread		Receiver Thread			Latching Mechanism
34.5	BAR	103.4	BAR	.1361	SQ IN	1/2"	FNPT	OD	1-3/16"	12 TPI	Ball Latching
500	PSI	1500	PSI					ID	7/8"	14 TPI	

Universal Couplers

Crankcase
Coolant
Hydraulic
Transmission

For both Crankcase and Coolant, these Universal Nozzles fit Standard and R-Series Crankcase and Coolant Receivers.

Hydraulic

N300Rp

R300Rc

Operating Pressure		Burst Pressure		Flow Area		Nozzle Thread		Receiver Thread		Latching Mechanism
34.5	BAR	103.4	BAR	.4207	SQ IN	3/4”	FNPT	3/4”	FNPT	Ball Latching
500	PSI	1500	PSI							

Transmission

N400Rp

R400Rc

Max Operating Pressure		Burst Pressure		Flow Area		Nozzle Thread		Receiver Thread			Latching Mechanism
34.5	BAR	103.4	BAR	.2285	SQ IN	3/4”	FNPT	OD	1-5/16”	12 TPI	Ball Latching
500	PSI	1500	PSI					ID	1-1/16”	12 TPI	

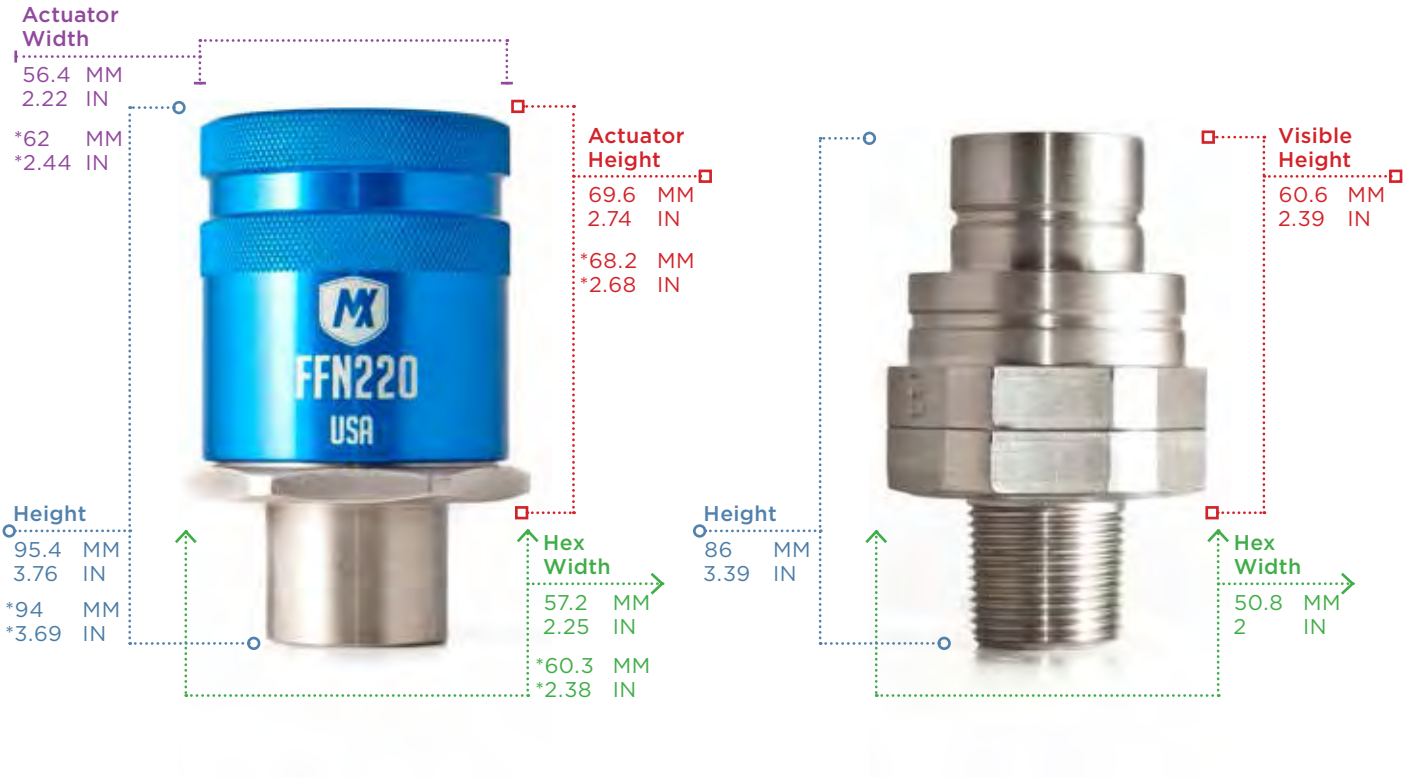
Matrix Flat Face Couplers

Flat Face Matrix 200 Series

The Matrix Flat Face coupling line is the ultimate solution in no-hassle, contaminate-free filling. The “Flat Face” surface on the nozzle allows ease in wiping the dust and dirt from the front end of the nozzle, before coupling, to ensure contaminant-free fluid delivery. The “Flat Face” series includes 13 color-coded nozzles and receivers designed to physically interlock with only their respective matching color.

FFET 290

One way evac tool acts as a master key to drain all receivers in Flat Face series.



FFN210 FFR210	FFN220 FFR220	FFN230 FFR230	FFN240 FFR240	FFN250 FFR250	*FFN255 FFR255	FFN260 FFR260	*FFN265 FFR265	FFN270 FFR270	*FFN275 FFR275	FFN280 FFR280	*FFN285 FFR285
GREEN	BLUE	PURPLE	GRAY	ORANGE	CLEAR	YELLOW	BROWN	RED	PINK	GOLD	GUNMETAL BLUE

Operating Pressure

103 BAR
1500 PSI

3/4” Thread

Nozzle FNPT
Receiver MNPT

Construction

Anodized aluminum. Nickel plated steel. Color coded and keyed to prevent cross contamination.

JIC

All receivers are capable of a JIC fitting.

Caps Recommended

* Items marked are slightly different in size. Please refer to the measurements above for their sizes.

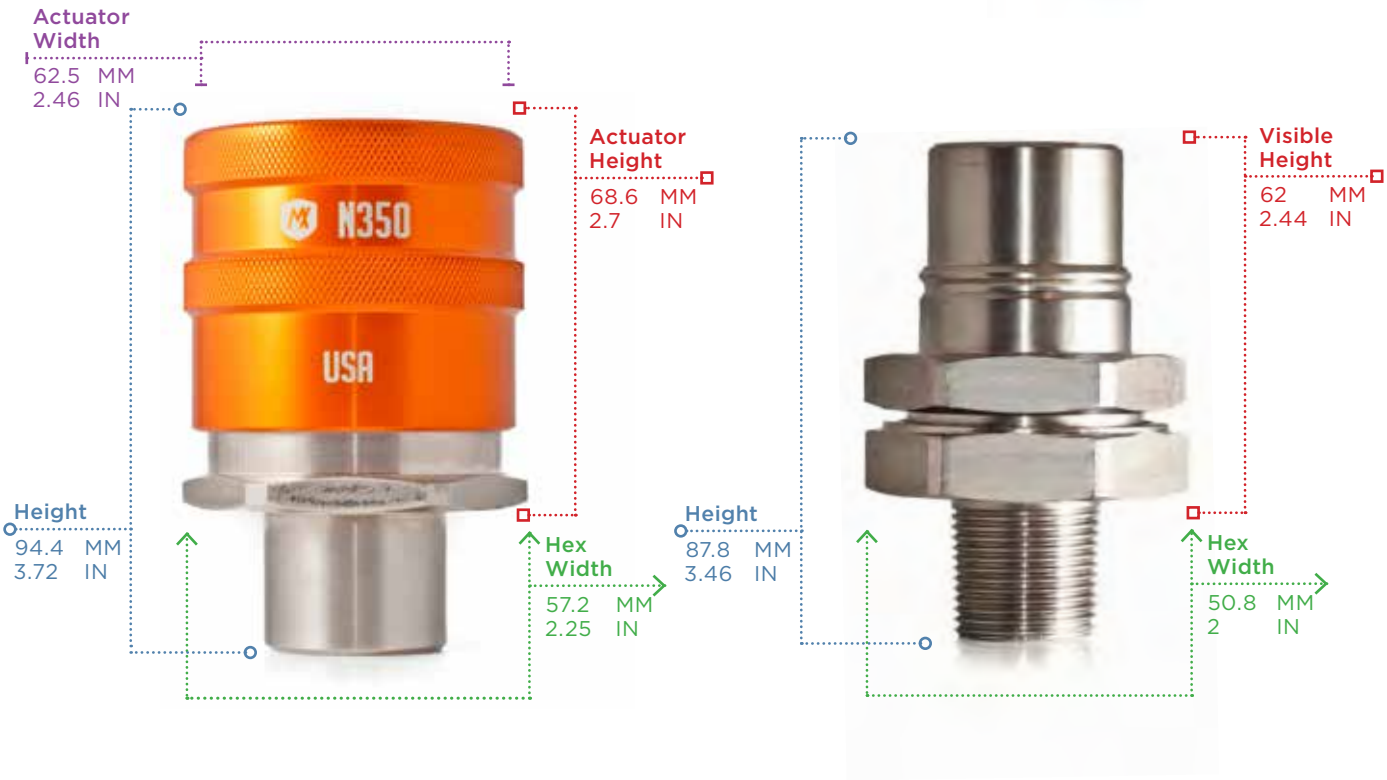
Matrix 300 Series

Matrix 34 Standard Couplers

Matrix 34 is a series of proprietary couplers designed to prevent cross-contamination of fluids. Matrix couplers work at a higher pressure and flow rate than standard couplers. Each of the 10 nozzles and receivers in the matrix line is color-coded and designed to physically interlock with only its matching color.

ET 290

One-way evac tool acts as a master key to drain all receivers in standard series.



N305 R305	N307 R307	N310 R310	N320 R320	N330 R330	N340 R340	N350 R350	N360 R360	N370 R370	N380 R380
PINK	BROWN	GREEN	BLUE	PURPLE	GRAY	ORANGE	YELLOW	RED	GOLD

Operating Pressure

103
1500

3/4: Thread

Nozzle FNPT
Receiver MNPT

Construction

Anodized aluminum. Nickel plated steel. Color coded and keyed to prevent cross contamination.

JIC

All receivers are capable of a JIC fitting.

Caps & Plugs Recommended

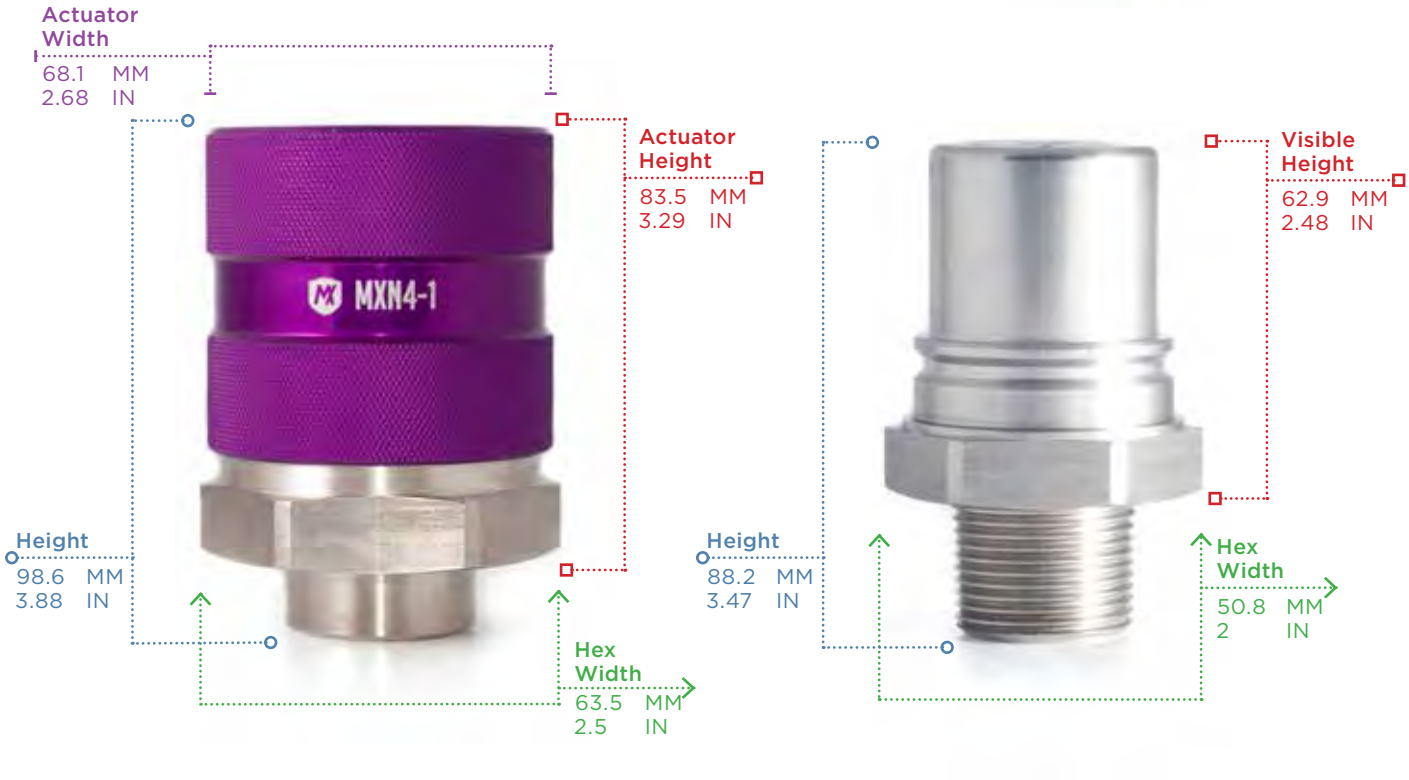
MX High Flow Series

Matrix MX High Flow Couplers

Fast Fill Systems now offers the next generation of High Flow Dry-Break Couplers. Constructed from steel for sure latching and durability, the MX-Series comes in 7 different Nozzle-Receiver pairs that can only be connected to their matching colors, eliminating any possibility of cross-contamination. With a robust, grip enhancing actuating ring and solid aluminum caps and plugs, these 1" Dry- Break connectors have been engineered for more than just high flow rates; they are engineered to last!

MXET-1

Evac tool acts as a master key to drain all receivers in MX series.



MXN1-1 MXR1-1	MXN2-1 MXR2-1	MXN3-1 MXR3-1	MXN4-1 MXR4-1	MXN5-1 MXR5-1	MXN6-1 MXR6-1	MXN7-1 MXR7-1
RED	YELLOW	TEAL	PURPLE	BLUE	COPPER	GREY

Operating Pressure

34.5	BAR
500	PSI

1" Threads

Nozzle	FNPT
Receiver	MNPT

Construction

Anodized aluminum. Nickel plated steel. Color coded and keyed to prevent cross contamination.

Compatibility

Compatible with competitor 1" high flow connectors.

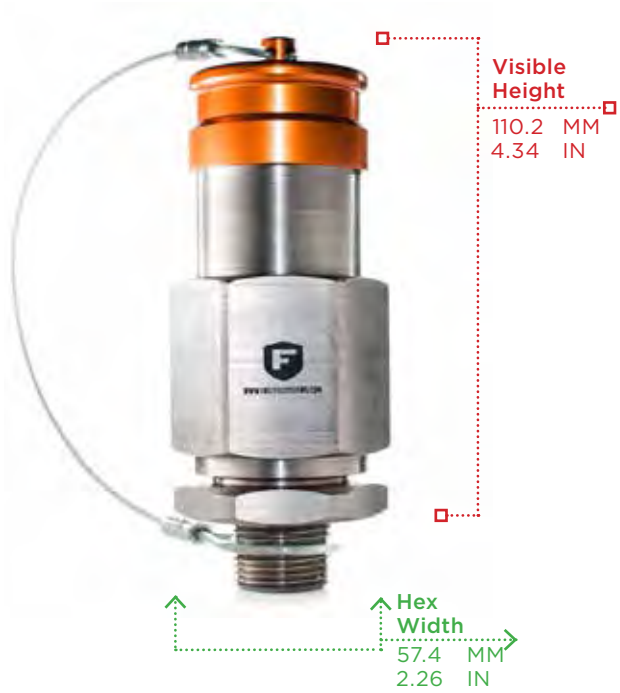
Caps & Plugs Recommended

GN210 | GR210

Grease Matrix Couplers

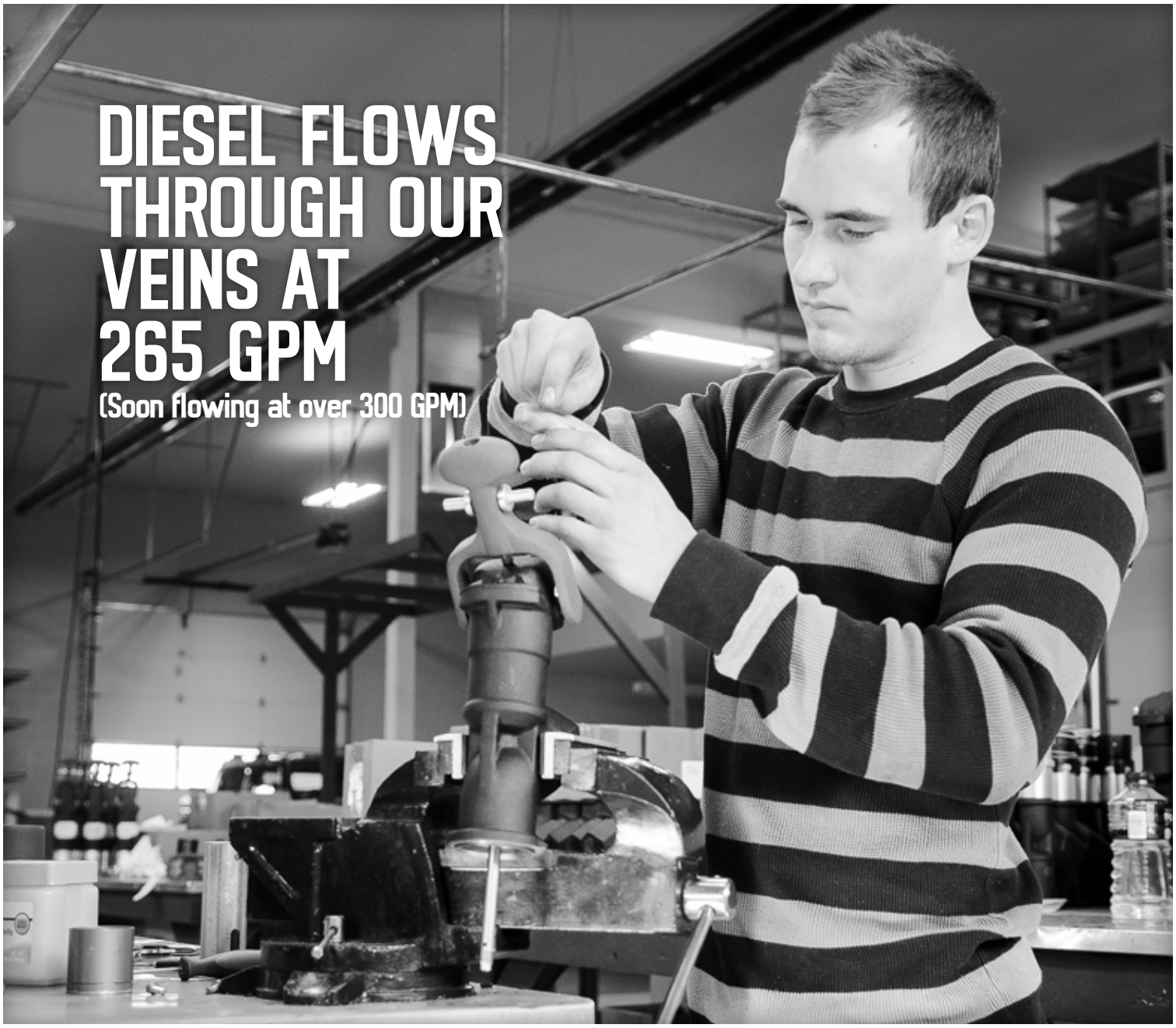
The Grease Matrix is a revolutionary patent pending product. This is the first flat-face dry break coupler that will connect and disconnect while maintaining supply pressure. This bulk filling grease coupler will perform with greater efficiency and safety. The system will not allow grease transfer until the couplers are connected properly. This coupler is available in 3/4", with a maximum deadhead pressure of 5,000 PSI at the integrated ball valve.

***Not for use with pressurized or auto-shutoff systems.**



GN210	GR210	GN220	GR220
ORANGE	ORANGE	GREY	GREY

Operating Pressure	3/4" Thread	Construction	Engineering	Engineering	Caps & Plugs Recommended
345 BAR 5000 PSI	Nozzle FNPT Receiver MNPT	Nickel plated steel. Anodized aluminum.	Dimple & groove guide system.	Connects and disconnects under line pressure.	



Nozzle Rebuilds

Nozzle Tech's rebuild service is more than cleaning parts and lubing seals. Our trained technicians inspect nozzles inside and out. After troubleshooting, the nozzle is rebuilt with new parts, polished, and powder coated. Some say our refurbished nozzles work better than new ones. **Send us your used nozzles today.**

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