

Flomax Connectors

Fast Transfer

Fueling and Fluid Management Systems
for Mining and Construction Equipment



The Right Connection™

Part Number Cross-reference

Standard Series Connectors

R Series Connectors

Dixon Part #	Caterpillar® part #	Wiggins part #
<i>Engine Oil Nozzles</i>		
ENBL	9S9273	OS2
ENBL-P	---	OSP2
ENBL-PLUG	9S9274	OP-12
ERJ	---	ON6
<i>Engine Oil Receivers</i>		
ERS	9S9271	ON2
ERS-C	---	ONC2A
ERS-CAP	9S9272	O3B12P
<i>Coolant Fluid Nozzles</i>		
CN	108-5455	EC280B8
CN-P	---	---
CN-PLUG	108-5456	1209-8
<i>Coolant Fluid Receivers</i>		
CR-S	IQ5459	EC285A8
CR-C	---	---
CR-CAP	5P3587	1208-8
<i>Hydraulic Oil Nozzles</i>		
HN	108-5433	6000B12
HN-P	---	---
HN-PLUG	---	6009-12
<i>Hydraulic Oil Receivers</i>		
HR	108-5454	6005A12
HR-C	---	---
HR-CAP	IQ-5468	6008-12
<i>Transmission Fluid Nozzles</i>		
TN	126-7538	C-1807
TN-P	---	---
TN-PLUG	---	P-1844
<i>Transmission Fluid Receivers</i>		
TR	108-5456	P-1804
TR-C	---	---
TR-CAP	SP3587	P-1880

Dixon Part #	Caterpillar® part #	Wiggins part #
<i>Engine Oil Nozzles</i>		
R-EN	---	R15
R-EN-P	---	---
R-EN-PLUG	---	---
<i>Engine Oil Receivers</i>		
R-ER	---	R16
R-ER-C	---	---
R-ER-CAP	---	---
<i>Coolant Fluid Nozzles</i>		
R-CN	---	R11
R-CN-P	---	---
R-CN-PLUG	---	---
<i>Coolant Fluid Receivers</i>		
R-CR	---	R12
R-CR-C	---	---
R-CR-CAP	---	---
<i>Hydraulic Oil Nozzles</i>		
R-HN	---	R17
R-HN-P	---	---
R-HN-PLUG	---	---
<i>Hydraulic Oil Receivers</i>		
R-HR	---	R18
R-HR-C	---	---
R-HR-CAP	---	---
<i>Transmission Fluid Nozzles</i>		
R-TN	---	R13
R-TN-P	---	---
R-TN-PLUG	---	---
<i>Transmission Fluid Receivers</i>		
R-TR	---	R14
R-TR-C	---	---
R-TR-CAP	---	---

Fuel Vent Series

Dixon Part #	Caterpillar® part #	Wiggins part #
VT	6G7803	ZV10
VT7	---	---
VT9	---	---
VTT	---	ZV10C

Diesel Fueling System

Dixon Part #	Caterpillar® part #	Wiggins part #
<i>Nozzles</i>		
FN600	---	ZZ99A1
FN600BL	---	---
FN600B-PLUG	---	---
<i>Receivers</i>		
FRS	269000	ZN2A
FRS-C	---	ZNC2A
FRA	269000	ZN2A
FRA-C	---	ZNC2A
FR-CAP	9D0630	ZC20P
FR2	---	---
FR2-C	---	---
FR2-R	---	---
GFR-0	---	ZN6A
GFR-45	---	---
GFR-90	---	ZN6B
GFR1-0	---	ZN6B
GFR1-45	---	---
GFR1-90	---	ZN6B
FNS	---	ZS9
FNS2	---	---
FN600S	---	---
FNS10	---	---

Diesel Fueling System

Designed for on-site refueling of construction, mining, forestry and agricultural equipment. Interchanges with Caterpillar® and Wiggins systems.

Diesel Fuel Nozzle

- 1½" female NPT
- Integrated high flow swivel
- Investment cast aluminum housing
- Heat treated stainless steel wear components
- Integrated sealing plug
- Anodized aluminum non-wear parts
- Delron bushings eliminate metal-to-metal wear
- Stainless steel dog latch mechanism
- Plug/bumper assembly gives complete nose seal
- Tested to 180 gallons per minute

Description	Part #
Fuel nozzle with swivel and plug	FN600
Fuel nozzle - ball lock	FN600BL
Fuel nozzle sealing plug	FN600B-PLUG



Diesel Fuel Receiver

- 2" male NPT
- Available in anodized aluminum or nickel-plated steel
- O-ring sealed aluminum cap
- Plug has set screw attached vinyl coated cable lanyard

One-Piece Body

Description	Part #
Fuel receiver - <i>steel</i>	FRS
Fuel receiver - <i>steel</i> with cap	FRS-C
Fuel receiver - <i>aluminum</i>	FRA
Fuel receiver - <i>aluminum</i> with cap	FRA-C
Fuel receiver cap	FR-CAP



- FR2 receiver allows replacement of wear components without draining the fuel tank.
- FR2 receiver has an aluminum base with nickel-plated steel nose.

Two-Piece Body

Description	Part #
Fuel receiver -2 piece	FR-RS
Fuel receiver -2 piece with cap	FR2-C
Fuel receiver -2 piece replacement	FR2-R



Diesel Fuel Swivels

- Stainless steel male threaded base
- Hand black anodized female threaded nut
- Fluorosilicone sealing O-ring
- Stainless steel ball bearings

Standard fuel swivel 1½"	FNS
Standard fuel swivel 2"	FNS2
FN600 fuel swivel 1½"	FN600S
Double fuel swivel 1½"	FNSID



Diesel Fuel Gravity Fill Receiver

- Used with the FN600 or FNBL600 to convert to gravity fueling

Description	<i>Part #</i>
Gravity fill fuel receiver, straight	GFR-0
Gravity fill fuel receiver, 45°	GFR-45
Gravity fill fuel receiver, 90°	GFR-90
Gravity fill fuel receiver 1", straight	GFR1-0
Gravity fill fuel receiver 1", 45°	GFR1-45
Gravity fill fuel receiver 1", 90°	GFR1-90



Fuel Vent Series

- | | |
|--|--|
| <ul style="list-style-type: none"> • 2" male NPT • Billet cap provides superior impact resistance • Easily serviced all metal construction • Rigid ball cage for positive seal | <ul style="list-style-type: none"> • Available with: • Threaded outlet • Half coupling • Anti-vandalism mounting |
|--|--|

Description	<i>Part #</i>
Fuel vent with 5" tube	VT
Fuel vent with 7" tube	VT7
Fuel vent with 9" tube	VT9
Fuel vent with 5" tube and threaded outlet	VTT



Standard Series Connectors




The Flomax standard series connectors consist of four color-coded mating connectors. They have all-metal construction with stainless steel wear components and anodized aircraft grade aluminum non-wear components. Each has easily recognizable labeling and are fully compatible and interchangeable with industry standard.

Engine Oil (red)

- Universally fits all crankcase receivers, both R-Series and Standard Series
- Incorporates 10 locking balls with a 40% deeper engagement
- Resistant to clogging with a greater ease of cleaning
- Larger diameter pullback lanyard
- Bright red anodized aluminum
- Smoother actuation



Nozzles	Male thread	Female thread	Description	Part #
	3/4" NPT	---	Engine nozzle ball lock	ENBL
	3/4" NPT	---	Engine nozzle ball lock with plug	ENBL-P
	---	---	Engine nozzle plug	ENBL-PLUG


Receivers	Male thread	Female thread	Description	Part #
	3/4" NPT	---	Engine receiver	ERS
	3/4" NPT	---	Engine receiver with cap	ERS-C
	---	---	Engine receiver cap	ERS-CAP
	NEW 3/4" JIC	---	Engine receiver with JIC bulkhead base	ERJ
	NEW 3/4" JIC	---	Engine receiver with JIC bulkhead base and cap	ERJ-C

Coolant Fluid (teal)

- Nickel-plated stainless steel nozzle nose and base
- Standard roll-pin locking mechanism
- Ergonomically engineered pullbacks and caps
- Bright teal anodized aluminum




Nozzles	Male thread	Female thread	Description	Part #
	1/2" NPT	---	Coolant nozzle ball lock	CN
	1/2" NPT	---	Coolant nozzle ball lock with plug	CN-P
	---	---	Coolant nozzle plug	CN-PLUG


Receivers	Male thread	Female thread	Description	Part #
	1/2" NPT	---	Coolant receiver	CR-S
	1/2" NPT	---	Coolant receiver with cap	CR-C
	---	---	Coolant receiver cap	CR-CAP

Standard Series Connectors

Hydraulic Oil (*gold*)


- Nickle-plated stainless steel wear components
- Ergonomically engineered pullbacks and caps
- 10 steel dog latching mechanism
- Bright gold anodized aircraft grade aluminum


Male thread	Female thread	Description	Part #	Nozzles
---	3/4" NPT	Hydraulic nozzle	HN	
---	3/4" NPT	Hydraulic nozzle with plug	HN-P	
---	---	Hydraulic nozzle plug	HN-PLUG	

Male thread	Female thread	Description	Part #	Receivers
3/4" NPT	---	Hydraulic receiver	HR	
3/4" NPT	---	Hydraulic receiver with cap	HR-C	
---	---	Hydraulic receiver cap	HR-CAP	

Transmission Fluid (*violet*)

- Nickle-plated stainless steel nose and base
- Ergonomically engineered pullbacks and caps
- 6 steel dog latching mechanism
- Bright violet anodized aircraft grade aluminum

Male thread	Female thread	Description	Part #	Nozzles
1/2" NPT	---	Transmission nozzle	TN	
1/2" NPT	---	Transmission nozzle with plug	TN-P	
---	---	Transmission nozzle plug	TN-PLUG	


Male thread	Female thread	Description	Part #	Receivers
---	1/2" NPT	Transmission receiver	TR	
---	1/2" NPT	Transmission receiver with cap	TR-C	
---	---	Transmission receiver cap	TR-CAP	


R Series Connectors

The Flomax R-series connectors are fully compatible and interchangeable with industry standard. They have all-metal construction using anodized aircraft grade aluminum non-wear components.

Engine Oil (red)


- All metal construction
- Standard roll-pin locking mechanism
- Ergonomically engineered pullbacks and caps
- Bright red anodized aircraft grade aluminum


Nozzles	Male thread	Female thread	Description	Part #
	---	3/4" NPT	R-series engine nozzle	R-EN
	---	3/4" NPT	R-series engine nozzle with plug	R-EN-P
	---	---	R-series engine nozzle plug	R-EN-PLUG

Receivers	Male thread	Female thread	Description	Part #
	1.625-12 UN-2A	1.312-12 UN-2B	R-series engine receiver	R-ER
	1.625-12 UN-2A	1.312-12 UN-2B	R-series engine receiver with cap	R-ER-C
	---	---	R-series engine receiver cap	R-ER-CAP

Coolant (teal)

- All metal construction
- Standard roll-pin locking mechanism
- Ergonomically engineered pullbacks and caps
- Bright teal anodized aircraft grade aluminum


Nozzles	Male thread	Female thread	Description	Part #
	---	1/2" NPT	R-series coolant nozzle	R-CN
	---	1/2" NPT	R-series coolant nozzle with plug	R-CN-P
	---	---	R-series coolant nozzle plug	R-CN-PLUG

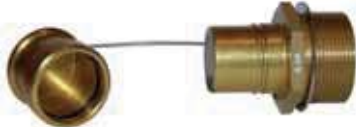
Receivers	Male thread	Female thread	Description	Part #
	1.187-12 UN-2A	.875-14 UN-2B	R-series coolant receiver	R-CR
	1.187-12 UN-2A	.875-14 UN-2B	R-series coolant receiver with cap	R-CR-C
	---	---	R-series coolant receiver cap	R-CR-CAP

R Series Connectors

Hydraulic Oil (gold)


- All metal construction
- Standard roll-pin locking mechanism
- Ergonomically engineered pullbacks and caps
- Bright gold anodized aircraft grade aluminum


Male thread	Female thread	Description	Part #	Nozzles
—	1" NPT	R-series hydraulic nozzle	R-HN	
—	1" NPT	R-series hydraulic nozzle with plug	R-HN-P	
—	—	R-series hydraulic nozzle plug	R-HN-PLUG	

Male thread	Female thread	Description	Part #	Receivers
1.875-12 UN-2A	1.625-12 UN-2B	R-series hydraulic receiver	R-HR	
1.875-12 UN-2A	1.625-12 UN-2B	R-series hydraulic receiver with cap	R-HR-C	
—	—	R-series hydraulic receiver cap	R-HR-CAP	

Transmission Fluid (violet)

- All metal construction
- Standard roll-pin locking mechanism
- Ergonomically engineered pullbacks and caps
- Bright violet anodized aircraft grade aluminum

Male thread	Female thread	Description	Part #	Nozzles
—	3/4" NPT	R-series transmission nozzle	R-TN	
—	3/4" NPT	R-series transmission nozzle with plug	R-TN-P	
—	—	R-series transmission nozzle plug	R-TN-PLUG	

Male thread	Female thread	Description	Part #	Receivers
1.312-12 UN-2A	1.062-12 UN-2B	R-series transmission receiver	R-TR	
1.312-12 UN-2A	1.062-12 UN-2B	R-series transmission receiver with cap	R-TR-C	
—	—	R-series transmission receiver cap	R-TR-CAP	

Flomax ENBL Series - 3/4"

Consists of 6 nozzle and receiver sets that are color coded for quick identification of mating parts. Each color nozzle and receiver will only couple with their matching color component. This will provide complete protection against cross contamination.

- Maximum flow rate of 45 gpm at 70 PSI
- Working pressure rating: **200 PSI**

ENBL Nozzle with Plug

Female NPT	Color code	Part #	Nozzles
3/4"	Red	ENBL-P1	
	Gold	ENBL-P2	
	Teal	ENBL-P3	
	Violet	ENBL-P4	
	Navy	ENBL-P5	
	Copper	ENBL-P6	

ENBL Receiver with Cap

Male NPT	Color code	Part #	Receivers
3/4"	Red	ERS-C1	
	Gold	ERS-C2	
	Teal	ERS-C3	
	Violet	ERS-C4	
	Navy	ERS-C5	
	Copper	ERS-C6	

Note: ENBL series are available with JIC bulkhead base. Substitute 'J' for 'S' Example: ERJ-C1

Flomax High Flow Series

Consists of 7 nozzle and receiver sets that are color coded for quick identification of mating parts. Each color nozzle and receiver will only couple with their matching color component. This will provide complete protection against cross contamination.

Each of the 7 nozzles and 7 receivers has the following performance:

- The nozzle/receiver combination has a flow area equivalent to a 1" schedule 80 pipe.
- All wear parts are constructed of stainless steel for long life and corrosion resistance.
- All non-wear parts are constructed of teal colored anodized aircraft grade aluminum for high strength, light weight and corrosion resistance.
- The fittings have a 500 PSI working pressure rating with 1500 PSI minimum burst pressure
- The standard mounting for the nozzle is a 1" female NPT and for the receiver is a 1" male NPT. The receivers also come with a 1" female NPT threaded base.
- The nozzle incorporates a "ball lock" mechanism to ensure smooth and reliable operation.

Physical Description:

- nozzle length: 3.90" (99 mm)
- receiver length: 3.44" (87 mm)
- diameter: 2.50" (64 mm)
- hex size: 2" (51 mm)
- nozzle and receiver coupled length: 5.44" (138 mm)



Female thread	Description	Part #	Nozzles
1" NPT	Red High Flow nozzle with plug	HFN-P1	
1" NPT	Gold High Flow nozzle with plug	HFN-P2	
1" NPT	Teal High Flow nozzle with plug	HFN-P3	
1" NPT	Violet High Flow nozzle with plug	HFN-P4	
1" NPT	Navy High Flow nozzle with plug	HFN-P5	
1" NPT	Copper High Flow nozzle with plug	HFN-P6	
1" NPT	Blue/Gray High Flow nozzle with plug	HFN-P7	
Male thread	Description	Part #	Receivers
1" NPT	Red High Flow receiver with cap	HFR-C1	
1" NPT	Gold High Flow receiver with cap	HFR-C2	
1" NPT	Teal High Flow receiver with cap	HFR-C3	
1" NPT	Violet High Flow receiver with cap	HFR-C4	
1" NPT	Navy High Flow receiver with cap	HFR-C5	
1" NPT	Copper High Flow receiver with cap	HFR-C6	
1" NPT	Blue/Gray High Flow receiver with cap	HFR-C7	



Photo courtesy of Volvo Construction Equipment



Photo courtesy of Terex

General Safety

- Use Dixon couplings, retention devices and accessory products ***only*** for their intended service.
- All recommendations of the Hose Manufacturer, and the Coupling Manufacturer, must be employed with regards to **Size, Temperature, Application, Media, and Pressure** when selecting the components for a hose assembly.
- All finished hose assemblies should be tested in accordance with the **Rubber Manufacturers Association** recommendations.
- All hose assemblies should be thoroughly inspected prior to each use to insure they are undamaged, and properly coupled.
- Under no circumstances should the assembly working pressure or working temperature exceed the working pressure or working temperature of the lowest rated component (coupling, clamp, ferrule, or hose).
- Call Dixon (1-800-355-1991) for advice on couplings, retention devices, and accessories for your application.

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