

# DR

## Standard Duty



### Main Advantages

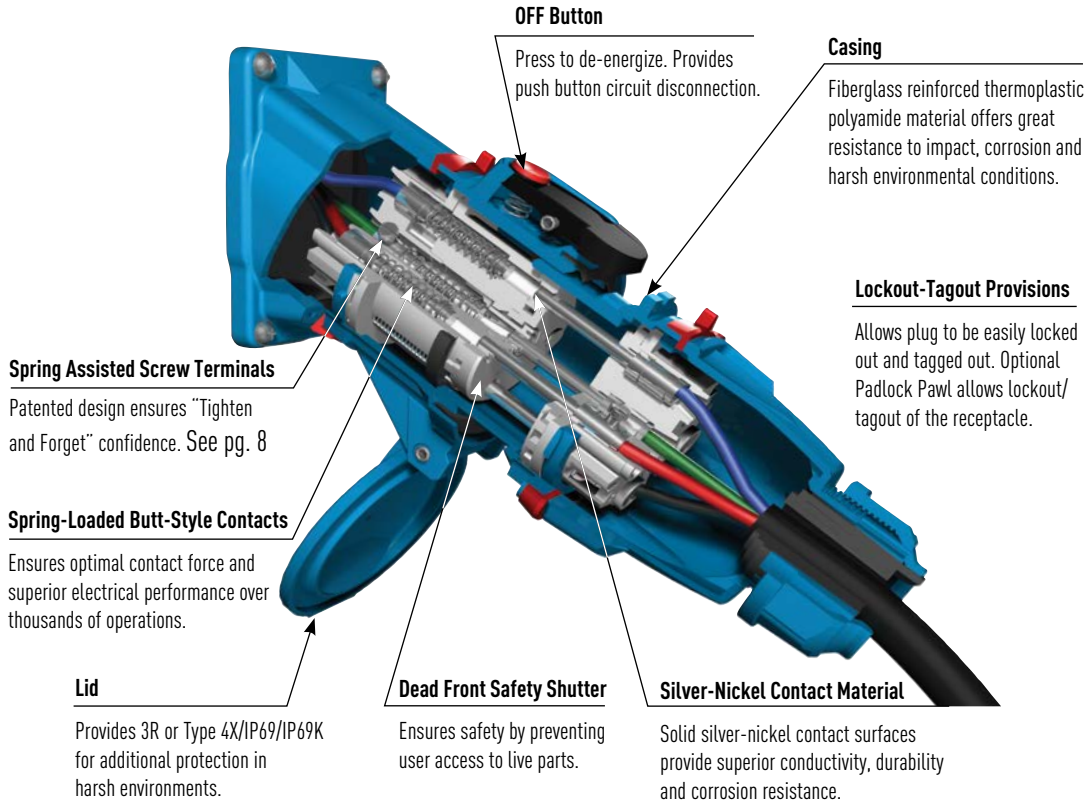
- High amperage capacity
- Up to 6 auxiliary contacts
- Robust metal or poly construction

- Features and Ratings p. 90
- DR30 p. 91
- DR50 p. 93
- DR100 p. 95
- DR150 p. 97
- DR250 p. 99
- Spare Parts p. 101
- Dimensions p. 103

SCAN  
ME >>



# PRODUCT FEATURES



## Operating Instructions



When the plug and receptacle are latched together, the circuit is connected.



Pressing the pawl breaks the connection and opens the circuit. The plug is ejected to its rest position; the contacts are now de-energized.



Rotating the de-energized plug 30° counterclockwise closes the safety shutter and frees the plug to be withdrawn from the receptacle.



The plug and the receptacle are separated. The safety shutter prevents access to live parts.

5 To reconnect, insert plug into receptacle, rotate 30° clockwise, and apply insertion force.

## General Ratings

Amperage	30 to 400 A
Voltage	600 VAC
Frequency	50-400 Hz
Short-Circuit (Withstand)	10 kA to 100 kA*
Environmental	Type 4X/IP69/IP69K Type 3R (DR30 & DR50), 4X optional
Temperature	Min -40°F/Max 140°F

\* DR30, 50 and 100 are rated 100 kA; DR150, 250 and 400 are 10 kA to 65 kA. Testing was performed with RK1 current limiting fuses sized to at least 100% of the device's ampacity rating.

## Current Interruption Listings

Model	Current Interruption Capabilities
DR30	Not for current interrupting
DR50	For current interrupting up to 250 VAC***
DR100	For current interrupting up to 250 VAC***
DR150	For current interrupting up to 250 VAC***
DR250	Not for current interrupting
DR400	Not for current interrupting

\*\*\* Devices rated for current interrupting are not intended for repetitive switching duties.

## Listings

Category	UL	CSA	IEC	NOM
Plugs and Receptacles	UL 1682	C22.2 No. 182.1	60309-1	NOM-003-SCFI-2014

# DR30 Standard Duty - 30 A

## UL/CSA Ratings

- **Max Amperage & Voltage**  
30 A, 600 VAC
- **Current Interruption Capability**  
Not for current interrupting  
For Switch-Rated devices, see DS & DSN sections.
- **Short Circuit Rating**  
100 kA  
Testing was performed with RK1 current limiting fuses sized at least 100% of the device's ampacity rating.
- **Environmental Ratings**  
Type 3R (Standard)  
Type 4X (Optional)
- **Temperature Range**  
Min -40°F/Max 140°F  
See pg 252 for temperatures outside of this range.
- **Wiring Capacity**  
Min 14 AWG Max 8 AWG  
Aux Contacts - Max 14 AWG  
\* Based on THHN wire sizes.
- **Certifications**  
UL 1682, CSA 182.1, NOM

## Receptacle (female)



## Inlet (male)



**!** Don't forget to add installation accessories to your order

## North American UL/CSA Configurations

VOLTAGE	POLARITY	PART # POLY	PART # POLY
120 V	1P+N+G	31-14235-K16	31-18235-K16
120 208 V	3P+N+G	31-14237-K16	31-18237-K16
125 V	1P+N+G	31-14175-K07	31-18175-K07
125 250 V	2P+N+G	31-14176-K07	31-18176-K07
208 V	2P+G	31-14232-K16	31-18232-K16
208 V	3P+G	31-14233-K16	31-18233-K16
250 V	2P+G	31-14172-K07	31-18172-K07
250 V	3P+G	31-14173-K07	31-18173-K07
277 V	1P+N+G	31-14245-K04	31-18245-K04
277 480 V	3P+N+G	31-14247-K04	31-18247-K04
347 600 V	3P+N+G	31-14187-K14	31-18187-K14
480 V	2P+G	31-14242-K04	31-18242-K04
480 V	3P+G	31-14243-K04	31-18243-K04
600 V	2P+G	31-14182-K14	31-18182-K14
600 V	3P+G	31-14183-K14	31-18183-K14

For international configurations and ratings (IEC,CE) visit [meltric.com/international-catalog](http://meltric.com/international-catalog) or contact Customer Service at 800-433-7642.

## Main Options



**Auxiliary/Pilot Contacts**



**Mushroom Pawl**



**Padlock Pawl**



**Closed Lid Configuration**

Recommended for cord applications to keep lid tucked in to avoid damage.

## RECEPTACLE OPTIONS

## SUFFIX #

## INLET OPTIONS

## SUFFIX #

With 2 Auxiliary/Pilot Contacts	<b>Recept # -972</b>	With 2 Auxiliary/Pilot Contacts	<b>Inlet # -972</b>
Type 4X & Closed Lid Configuration	<b>Recept # -4X</b>	Type 4X Watertightness	<b>Inlet # -4X</b>
Mushroom Pawl	<b>Recept # -375</b>	With No Lockout Hole	<b>Inlet # -A155</b>
Padlock Pawl	<b>Recept # -843</b>	For Microswitch	<b>Inlet # -270+</b>
Screw-Type Locking Pawl	<b>Recept # -845</b>		
Metal Pawl (on poly receptacle)	<b>Recept # -824</b>		
Closed Lid Configuration	<b>Recept # -NC</b>		
With Microswitch	<b>Recept # -270+</b>		

**Notes:**



+ Not UL/CSA listed. Not available with 3P+N+G configurations.

**!** See pages 231-238 for detailed information on these options


**Order Example: 480 V DR30 + 2 auxiliary contacts**


DR30 Poly inlet 3P+G = 31-18243-K04-972


# INSTALLATION ACCESSORIES – SIZE 2


HANDLES	HANDLE WITH NPT		PART # POLY	PART # METAL
		1/2"		512P0N05
	3/4"		512P0N07	592P0N07
	1"		512P0N10	592P0N10
	1 1/4"		512P0N12	-



For available cord grips, see pg 159.

POLY HANDLE WITH CORD GRIP	CABLE RANGE	PART #
	.350-.520"	712P0BP6
	.520-.680"	712P0CP5
	.680-.980"	712P0DP4
	.980-1.260"	712P0EP4




METAL HANDLE WITH CORD GRIP	CABLE RANGE	PART #
	.438-.500"	792P0BS3
	.500-.562"	792P0BS4
	.562-.625"	792P0CS2
	.625-.750"	792P0CS4
	.770-.875"	792P0DS1
	.870-1.000"	792P0DS3

POLY HANDLE	CABLE RANGE	PART #
	.200-.820"	512P0D21


POLY HANDLE WITH CLAMP & BUSHING	CABLE RANGE	PART #
	.750-.875"	712P0S14
	.875-1.000"	712P0S16
	1.000-1.125"	712P0S18
	1.125-1.250"	712P0S20
	1.250-1.375"	712P0S22

ANGLES	POLY ANGLE	
		30°
	70°	512M7

Panel mounting only.

METAL ANGLE	
	0°
	30°
	FS/FD 30°


\* Base measures approximately 4.2" x 2.7". Due to the variation in sizes of FS boxes, please verify that your FS box matches our dimensions, if not call Customer Service for other solutions.

BOXES	POLY CONDUIT ENTRY WITH NPT		PART #
		30°	1/2"
	30°	3/4"	512B3N07

\* 7.0 in<sup>3</sup>

For poly devices only.  
\* Interior volume with receptacle installed.

### POLY WALL BOX WITH ANGLE

	70°		512C7000
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\* 82.0 in<sup>3</sup>

70° poly boxes are not drilled.

\* Interior volume with receptacle installed.

	Ground Bar		51-AA089
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### POLY ANGLE WITH METAL BOX WITH NPT

	70°	1/2"	712C7N05
	70°	3/4"	712C7N07
	70°	1"	712C7N10
	70°	1 1/4"	712C7N12
	70°	1 1/2"	712C7N15

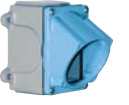
\* 74.6 in<sup>3</sup>

\* Interior volume with receptacle installed.

### METAL BOX WITH NPT

	0°	1/2"	71T1F0N05
	0°	3/4"	71T1F0N07
	0°	1"	71T1F0N10
	0°	1 1/4"	71T1F0N12

### POLY ANGLE WITH METAL BOX WITH NPT

	30°	1/2"	712C3N05
	30°	3/4"	712C3N07
	30°	1"	712C3N10
	30°	1 1/4"	712C3N12


\* 28.7 in<sup>3</sup>

For metal angle, replace "71" prefix with "79".


\* Interior volume with receptacle installed

NPT on top or bottom (if rotated). For other configurations, contact Customer Service.


### MISCELLANEOUS ACCESSORIES


	61-3A346	Set of Two (2) Recommended for all assembly applications, for easier connector closure.
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	31-1A426	For Inlets/Plugs Only.
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	DS1PC	For Inlets/Plugs Only.
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	31-1A226	For Inlets/Plugs Only. In order to achieve max water ingress protection of Type 3R/IP55, spring loaded caps should be ordered with inlets equipped with -A155 suffix.
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	see pg 232	Mount to existing boxes.
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	LP-843	Requires Padlockable Pawl option (-843) on receptacle.
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DR/PN/DC

# DR50 Standard Duty - 50 A

## UL/CSA Ratings

- Max Amperage & Voltage**  
 50 A, 600 VAC
- Current Interruption Capability**  
 For current interrupting up to 250 VAC  
 For Switch-Rated devices, see DS & DSN sections.
- Short Circuit Rating**  
 100 kA  
 Testing was performed with RK1 current limiting fuses sized at least 100% of the device's ampacity rating.
- Environmental Ratings**  
 Type 3R (Standard)  
 Type 4X (Optional)
- Temperature Range**  
 Min -40°F/Max 140°F  
 See pg 252 for temperatures outside of this range.
- Wiring Capacity**  
 Min 14 AWG Max 4 AWG  
 Aux Contacts - Max 14 AWG  
 \* Based on THHN wire sizes.
- Certifications**  
 UL 1682, CSA 182.1, NOM

## Receptacle (female)



## Inlet (male)



**!** Don't forget to add installation accessories to your order

## North American UL/CSA Configurations

VOLTAGE	POLARITY	PART # POLY	PART # POLY
120 V	1P+N+G	31-34235-K16	31-38235-K16
120 208 V	3P+N+G	31-34237-K16	31-38237-K16
125 V	1P+N+G	31-34175-K07	31-38175-K07
125 250 V	2P+N+G	31-34176-K07	31-38176-K07
208 V	2P+G	31-34232-K16	31-38232-K16
208 V	3P+G	31-34233-K16	31-38233-K16
250 V	2P+G	31-34172-K07	31-38172-K07
250 V	3P+G	31-34173-K07	31-38173-K07
277 V	1P+N+G	31-34245-K04	31-38245-K04
277 480 V	3P+N+G	31-34247-K04	31-38247-K04
347 600 V	3P+N+G	31-34187-K14	31-38187-K14
480 V	2P+G	31-34242-K04	31-38242-K04
480 V	3P+G	31-34243-K04	31-38243-K04
600 V	2P+G	31-34182-K14	31-38182-K14
600 V	3P+G	31-34183-K14	31-38183-K14

For international configurations and ratings (IEC,CE) visit [meltric.com/international-catalog](http://meltric.com/international-catalog) or contact Customer Service at 800-433-7642.

## Main Options



**Auxiliary/Pilot Contacts**



**Mushroom Pawl**



**Padlock Pawl**



**Closed Lid Configuration**

Recommended for cord applications to keep lid tucked in to avoid damage.

## RECEPTACLE OPTIONS

## SUFFIX #

## INLET OPTIONS

## SUFFIX #

With 2 Auxiliary/Pilot Contacts	<b>Recept # -972</b>	With 2 Auxiliary/Pilot Contacts	<b>Inlet # -972</b>
With 3 Auxiliary/Pilot Contacts	<b>Recept # -973</b>	With 3 Auxiliary/Pilot Contacts	<b>Inlet # -973</b>
With 4 Auxiliary/Pilot Contacts	<b>Recept # -974</b>	With 4 Auxiliary/Pilot Contacts	<b>Inlet # -974</b>
Type 4X & Closed Lid Configuration	<b>Recept # -4X</b>	Type 4X Watertightness	<b>Inlet # -4X</b>
Mushroom Pawl	<b>Recept # -375</b>	With No Lockout Hole	<b>Inlet # -A155</b>
Padlock Pawl	<b>Recept # -843</b>	For Microswitch	<b>Inlet # -270+</b>
Screw-Type Locking Pawl	<b>Recept # -845</b>		
Metal Pawl (on poly receptacle)	<b>Recept # -824</b>		
Closed Lid Configuration	<b>Recept # -NC</b>		
With Microswitch	<b>Recept # -270+</b>		

### Notes:



+ Not UL/CSA listed. Not available on 3P+N+G configurations.

**!** See pages 231-238 for detailed information on these options


**Order Example: 480 V DR50 + 2 auxiliary contacts**


DR50 Poly inlet 3P+G = 31-38243-K04-972

# INSTALLATION ACCESSORIES – SIZE 3


HANDLES	HANDLE WITH NPT		PART # POLY	PART # METAL
		1/2"		513P0N05
	3/4"		513P0N07	593P0N07
	1"		513P0N10	593P0N10
	1 1/4"		513P0N12	593P0N12

For available cord grips, see pg 159.


POLY HANDLE WITH CORD GRIP	CABLE RANGE	PART #
	.520-.680"	713P0CP5
	.680-.980"	713P0DP4
	.980-1.260"	713P0EP4

METAL HANDLE WITH CORD GRIP	CABLE RANGE	PART #
	.635-.750"	793P0CS4
	.770-.850"	793P0DS1
	.875-1.000"	793P0DS3
	1.000-1.125"	793P0ES2

POLY HANDLE	CABLE RANGE	PART #
	.390-1.180"	513P0D30





POLY HANDLE WITH BUILT IN DRAW GRIPS	CABLE RANGE	PART #
	.390-1.180"	513P0D30473

Makes connector closures easier.


POLY HANDLE WITH CLAMP & BUSHING	CABLE RANGE	PART #
	.750-.875"	713P0S14
	.875-1.000"	713P0S16
	1.000-1.125"	713P0S18
	1.125-1.250"	713P0S20
	1.250-1.375"	713P0S22

ANGLES	POLY ANGLE		PART #	
		30°	513M3	

513M7  
Panel mounting only.



METAL ANGLE		PART #
	0°	593M0
	30°	593M3
	FS/FD 30°	793M3FS
	70°	593M7

\* Base measures approximately 4.2" x 2.7". Due to the variation in sizes of FS boxes, please verify that your FS box matches our dimensions, if not call Customer Service for other solutions.


BOXES	POLY CONDUIT ENTRY WITH NPT		PART #	
		30°	3/4"	513B3N07
	30°	1"	513B3N10	

\* 13.5 in<sup>3</sup>

### POLY WALL BOX WITH ANGLE

	70°		513C7000	70° poly boxes are not drilled.
				* Interior volume with receptacle installed.
		Ground Bar	51AA089	

### POLY ANGLE WITH METAL BOX WITH NPT

	70°	1/2"	713C7N05	* Interior volume with receptacle installed.
	70°	3/4"	713C7N07	
	70°	1"	713C7N10	
	70°	1 1/4"	713C7N12	
	70°	1 1/2"	713C7N15	

### METAL BOX WITH NPT

	0°	1/2"	7T1F0N05
	0°	3/4"	7T1F0N07
	0°	1"	7T1F0N10
	0°	1 1/4"	7T1F0N12

### POLY ANGLE WITH METAL BOX WITH NPT

	30°	1/2"	713C3N05	For metal angle, replace "71" prefix with "79". * Interior volume with receptacle installed.
	30°	3/4"	713C3N07	
	30°	1"	713C3N10	
	30°	1 1/4"	713C3N12	

\* 29.6 in<sup>3</sup>

NPT on top or bottom (if rotated). For other configurations, contact Customer Service.


### MISCELLANEOUS ACCESSORIES

	61-6A346	Set of Two (2) Recommended for all assembly applications, for easier connector closure.
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	31-3A426	For Inlets/Plugs Only.
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	DS3PC	Poly - For Inlets/Plugs Only.
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	31-3A226	For Inlets/Plugs Only. In order to achieve max water ingress protection of Type 3R/IP55, spring loaded caps should be ordered with inlets equipped with -A155 suffix.
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	see pg 232	Mount to existing boxes.
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	LP-843	Requires Padlockable Pawl option (-843) on receptacle.
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# DR100 Standard Duty - 100 A

## UL/CSA Ratings

- **Max Amperage & Voltage**  
100 A, 600 VAC
- **Current Interruption Capability**  
For current interrupting up to 250 VAC  
 For Switch-Rated devices, see DS & DSN sections.
- **Short Circuit Rating**  
100 kA  
Testing was performed with RK1 current limiting fuses sized at at least 100% of the device's ampacity rating.
- **Environmental Ratings**  
Type 4X/IP69/IP69K\*  
\*Also meets IP66/IP67 requirements
- **Temperature Range**  
Min -40°F/Max 140°F  
See pg 252 for temperatures outside of this range.
- **Wiring Capacity**  
Min 10 AWG Max 2 AWG  
Aux Contacts - Max 14 AWG  
\* Based on THHN wire sizes.
- **Certifications**  
UL 1682, CSA 182.1, NOM

## Receptacle (female)



## Inlet (male)



**!** Don't forget to add installation accessories to your order

## North American UL/CSA Configurations

VOLTAGE	POLARITY	PART #		PART #	
		POLY	METAL	POLY	METAL
120 V	1P+N+G	31-64235-K16	39-64235-K16	31-68235-K16	39-68235-K16
120 208 V	3P+N+G	31-64237-K16	39-64237-K16	31-68237-K16	39-68237-K16
125 V	1P+N+G	31-64175-K07	39-64175-K07	31-68175-K07	39-68175-K07
125 250 V	2P+N+G	31-64176-K07	39-64176-K07	31-68176-K07	39-68176-K07
208 V	2P+G	31-64232-K16	39-64232-K16	31-68232-K16	39-68232-K16
208 V	3P+G	31-64233-K16	39-64233-K16	31-68233-K16	39-68233-K16
250 V	2P+G	31-64172-K07	39-64172-K07	31-68172-K07	39-68172-K07
250 V	3P+G	31-64173-K07	39-64173-K07	31-68173-K07	39-68173-K07
277 V	1P+N+G	31-64245-K04	39-64245-K04	31-68245-K04	39-68245-K04
277 480 V	3P+N+G	31-64247-K04	39-64247-K04	31-68247-K04	39-68247-K04
347 600 V	3P+N+G	31-64187-K14	39-64187-K14	31-68187-K14	39-68187-K14
480 V	2P+G	31-64242-K04	39-64242-K04	31-68242-K04	39-68242-K04
480 V	3P+G	31-64243-K04	39-64243-K04	31-68243-K04	39-68243-K04
600 V	2P+G	31-64182-K14	39-64182-K14	31-68182-K14	39-68182-K14
600 V	3P+G	31-64183-K14	39-64183-K14	31-68183-K14	39-68183-K14

For international configurations and ratings (IEC, CE) visit [meltric.com/international-catalog](http://meltric.com/international-catalog) or contact Customer Service at 800-433-7642.

## Main Options



**Auxiliary/Pilot Contacts**



**Mushroom Pawl**



**Padlock Pawl**



**Closed Lid Configuration**

Recommended for cord applications to keep lid tucked in to avoid damage.

## RECEPTACLE OPTIONS

## SUFFIX #

## INLET OPTIONS

## SUFFIX #



With 2 Auxiliary/Pilot Contacts	<b>Recept # -972</b>	With 2 Auxiliary/Pilot Contacts	<b>Inlet # -972</b>
With 3 Auxiliary/Pilot Contacts	<b>Recept # -263</b>	With 3 Auxiliary/Pilot Contacts	<b>Inlet # -263</b>
With 4 Auxiliary/Pilot Contacts	<b>Recept # -264</b>	With 4 Auxiliary/Pilot Contacts	<b>Inlet # -264</b>
Mushroom Pawl	<b>Recept # -375</b>	With No Lockout Hole	<b>Inlet # -A155</b>
Padlock Pawl	<b>Recept # -843</b>	For Microswitch	<b>Inlet # -270+</b>
Screw-Type Locking Pawl	<b>Recept # -845</b>	<b>Note:</b>	
Metal Pawl (on poly receptacle)	<b>Recept # -824</b>	+ Not UL/CSA listed. Not available for 3P+N+G configurations.	
Closed Lid Configuration	<b>Recept # -NC</b>		
With Microswitch	<b>Recept # -270+</b>		

**!** See pages 231-238 for detailed information on these options


**Order Example: 480 V DR100 + 2 auxiliary contacts**


DR100 Poly inlet 3P+G = 31-68243-K04-972

# INSTALLATION ACCESSORIES – SIZE 4

HANDLES	HANDLE WITH NPT		PART # POLY	PART # METAL
		1/2" NPT	514P0N05	594P0N05
		3/4" NPT	514P0N07	594P0N07
		1" NPT	514P0N10	594P0N10
		1 1/4" NPT	514P0N12	594P0N12
		1 1/2" NPT	514P0N15	594P0N15

For available cord grips, see pg 159.

POLY HANDLE WITH CORD GRIP	CABLE RANGE	PART #
	.680-.980"	714P0DP4
	.980-1.260"	714P0EP4
	1.260-1.560"	714P0FP1


METAL HANDLE WITH CORD GRIP	CABLE RANGE	PART #
	.770-.850"	794P0DS1
	.875-1.000"	794P0DS3
	1.000-1.125"	794P0ES2
	1.250-1.375"	794P0FS1
	1.438-1.562"	794P0FS2
	1.562-1.688"	794P0FS3


\*May require stripping of cable jacket.





POLY HANDLE	CABLE RANGE	PART #
	.511-1.377"	514P0D35


POLY HANDLE WITH BUILT IN DRAW GRIPS	CABLE RANGE	PART #
	.511-1.377"	514P0D35473

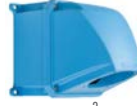
Makes connector closures easier.

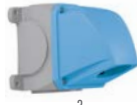
SANTOPRENE HANDLE	CABLE RANGE	PART #
	.551-.787"	554P0D20L
	.708-.984"	554P0D25L
	.984-1.377"	554P0D35L
	1.377-1.771"	554P0D45L
	1.771-1.929"	554P0D49L

ANGLES	POLY ANGLE		PART #	Notes
		30 DEGREE		


METAL ANGLE	ANGLE	PART #	Notes
	0°	594M0	
	30°	594M3	
	30 DEGREE	794M3L	
	Oversized 30°	794M3	Mounts on oversize box only. Order with 7T5F0Nxx. See pg 98.
	70 DEGREE	594M7	

BOXES	POLY CONDUIT ENTRY WITH NPT			PART #	Notes	
		30 DEGREE	1/2" NPT	514B3N05		For poly devices only.
		30 DEGREE	3/4" NPT	514B3N07		
		30 DEGREE	1" NPT	514B3N10		* Interior volume with receptacle installed.
		* 27.7 in <sup>3</sup>	30 DEGREE	1 1/4" NPT		


POLY WALL BOX WITH ANGLE	ANGLE	PART #	Notes
	70 DEGREE	514C7000	70° poly boxes are not drilled.  * Interior volume with receptacle installed.

POLY ANGLE WITH METAL BOX WITH NPT	ANGLE	NPT	PART #	Notes
	70 DEGREE	1/2" NPT	714C7N05	* Interior volume with receptacle installed.
	70 DEGREE	3/4" NPT	714C7N07	
	70 DEGREE	1" NPT	714C7N10	
	70 DEGREE	1 1/4" NPT	714C7N12	
	* 177.7 in <sup>3</sup>	70 DEGREE	1 1/2" NPT	



METAL BOX WITH NPT	ANGLE	NPT	PART #
	0°	1" NPT	7T4F0N10
	0°	1 1/4" NPT	7T4F0N12
	0°	1 1/2" NPT	7T4F0N15
	0°	2" NPT	7T4F0N20


POLY ANGLE WITH METAL BOX WITH NPT	ANGLE	NPT	PART #	Notes
	30 DEGREE	1" NPT	714C3N10	For metal angle, replace "71" prefix with "79".  * Interior volume with receptacle installed.
	30 DEGREE	1 1/4" NPT	714C3N12	
	30 DEGREE	1 1/2" NPT	714C3N15	
	* 61.0 in <sup>3</sup> Poly Angle * 59.4 in <sup>3</sup> Metal Angle	30 DEGREE	2" NPT	

NPT on top or bottom (if rotated). For other configurations, contact Customer Service.


FINGER DRAWPLATES	PART #	Notes
	31-6A346	Set of Two (2) Recommended for all assembly applications, for easier connector closure..

PROTECTIVE INLET/PLUG CAP	PART #	Notes
	31-6A426	For Inlets/Plugs Only.

PADLOCKABLE INLET/PLUG CAP	PART #	Notes
	DS6PC	Poly – For Inlets/Plugs Only.
	DS6MC	Aluminum – For Inlets/Plugs Only. -A155 suffix required on inlet part # to retain water ingress protection.

SPRING-LOADED PADLOCKABLE INLET/PLUG CAP	PART #	Notes
	31-6A226	For Poly Inlets/Plugs Only.
	39-6A226	For Metal Inlets/Plugs Only.

In order to achieve max water ingress protection of Type 3R/IP55, spring loaded caps should be ordered with inlets equipped with -A155 suffix.

RECEPTACLE LOCKING PIN	PART #	Notes
	LP-843	Requires Padlockable Pawl option (-843) on receptacle.

MISCELLANEOUS ACCESSORIES

DR/PN/DC

# DR150 Standard Duty - 150 A

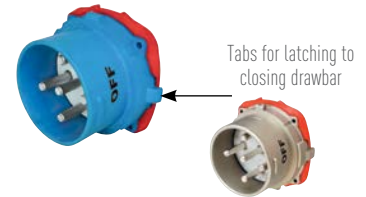
## UL/CSA Ratings

- **Max Amperage & Voltage**  
150 A, 600 VAC
- **Current Interruption Capability**  
For current interrupting up to 250 VAC  
For Switch-Rated devices, see DS & DSN sections.
- **Short Circuit Rating**  
65 kA  
Testing was performed with RK1 current limiting fuses sized at at least 100% of the device's ampacity rating.
- **Environmental Ratings**  
Type 4X/IP69/IP69K\*  
\*Also meets IP66/IP67 requirements
- **Temperature Range**  
Min -40°F/Max 140°F  
See pg 252 for temperatures outside of this range.
- **Wiring Capacity**  
Min 4 AWG Max 2/0 AWG  
Aux Contacts - Max 14 AWG  
\* Based on THHN wire sizes
- **Certifications**  
UL 1682, CSA 182.1, NOM

## Receptacle (female)



## Inlet (male)



**!** Don't forget to add installation accessories to your order

## North American UL/CSA Configurations

VOLTAGE	POLARITY	PART #		PART #	
		POLY	METAL	POLY	METAL
120 V	1P+N+G	31-94235-K16	39-94235-K16	31-98235-K16	39-98235-K16
120 208 V	3P+N+G	31-94237-K16	39-94237-K16	31-98237-K16	39-98237-K16
125 V	1P+N+G	31-94175-K07	39-94175-K07	31-98175-K07	39-98175-K07
125 250 V	2P+N+G	31-94176-K07	39-94176-K07	31-98176-K07	39-98176-K07
208 V	2P+G	31-94232-K16	39-94232-K16	31-98232-K16	39-98232-K16
208 V	3P+G	31-94233-K16	39-94233-K16	31-98233-K16	39-98233-K16
250 V	2P+G	31-94172-K07	39-94172-K07	31-98172-K07	39-98172-K07
250 V	3P+G	31-94173-K07	39-94173-K07	31-98173-K07	39-98173-K07
277 V	1P+N+G	31-94245-K04	39-94245-K04	31-98245-K04	39-98245-K04
277 480 V	3P+N+G	31-94247-K04	39-94247-K04	31-98247-K04	39-98247-K04
347 600 V	3P+N+G	31-94187-K14	39-94187-K14	31-98187-K14	39-98187-K14
480 V	2P+G	31-94242-K04	39-94242-K04	31-98242-K04	39-98242-K04
480 V	3P+G	31-94243-K04	39-94243-K04	31-98243-K04	39-98243-K04
600 V	2P+G	31-94182-K14	39-94182-K14	31-98182-K14	39-98182-K14
600 V	3P+G	31-94183-K14	39-94183-K14	31-98183-K14	39-98183-K14

For international configurations and ratings (IEC, CE) visit [meltric.com/international-catalog](http://meltric.com/international-catalog) or contact Customer Service at 800-433-7642.

## Main Options



## RECEPTACLE OPTIONS

RECEPTACLE OPTIONS	SUFFIX #
With 2 Auxiliary/Pilot Contacts	Recept # -262
With 4 Auxiliary/Pilot Contacts	Recept # -264
With 6 Auxiliary/Pilot Contacts	Recept # -976
Mushroom Pawl	Recept # -375
Padlock Pawl	Recept # -843
Screw-Type Locking Pawl	Recept # -845
Metal Pawl (on poly receptacle)	Recept # -824
Closed Lid Configuration	Recept # -NC
With Microswitch	Recept # -270+

## INLET OPTIONS



INLET OPTIONS	SUFFIX #
With 2 Auxiliary/Pilot Contacts	Inlet # -262
With 4 Auxiliary/Pilot Contacts	Inlet # -264
With 6 Auxiliary/Pilot Contacts	Inlet # -976
With No Lockout Hole	Inlet # -A155
For Microswitch	Inlet # -270+

**Notes:** + Not UL/CSA listed. Not available for 3P+N+G configurations.


**!** See pages 231-238 for detailed information on these options


**Order Example: 480 V DR150 + 2 auxiliary contacts**  
DR150 Poly inlet 3P+G = 31-98243-K04-972

# INSTALLATION ACCESSORIES – SIZE 5


HANDLES	HANDLE WITH NPT		
	PART # POLY	PART # METAL	
	3/4"	515P0N07	595P0N07
	1"	515P0N10	595P0N10
	1 1/4"	515P0N12	595P0N12
	1 1/2"	515P0N15	595P0N15
	2"	515P0N20	595P0N20

For available cord grips, see pg 159.

POLY HANDLE WITH CORD GRIP	CABLE RANGE	PART #
	.980-1.260"	715P0EP4
	1.260-1.560"	715P0FP1
	1.520-1.860"	715P0GP2

METAL HANDLE WITH CORD GRIP	CABLE RANGE	PART #
	1.250-1.375"	795P0FS1
	1.438-1.562"	795P0FS2*
	1.562-1.688"	795P0FS3*
	1.688-1.812"	795P0GS1


\*May require stripping of cable jacket.

METAL OVERSIZED HANDLE WITH NPT	CABLE RANGE	PART #
	3/4"	795P0N07
	1"	795P0N10
	1 1/4"	795P0N12
	1 1/2"	795P0N15
	2"	795P0N20
	2 1/2"	795P0N25


For available cord grips, see pg 159.

SANTOPRENE HANDLE	CABLE RANGE	PART #
	.708-.984"	555P0D25
	.984-1.377"	555P0D35
	1.377-1.771"	555P0D45

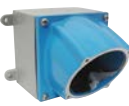
IP66/IP67

ANGLES	POLY ANGLE	
	ANGLE	PART #
	30°	515M3

ANGLES	METAL ANGLE	
	ANGLE	PART #
	0°	595M0
	30°	595M3
Oversized 30°	795M3	Mounts on oversize metal box only. Order with 7T6F0N25XL. See pg 100.
70°	595M7	

BOXES	POLY ANGLE WITH METAL BOX WITH NPT			PART #
		30°	1 1/4"	715C3N12
		30°	1 1/2"	715C3N15
		30°	2"	715C3N20
		* 108.7 in <sup>3</sup>	30°	2 1/2"

\* Interior volume with receptacle installed.

METAL ANGLE WITH METAL BOX WITH NPT				
	30°	1 1/4"	795C3N12	
	30°	1 1/2"	795C3N15	
	30°	2"	795C3N20	
	* 111.8 in <sup>3</sup>	30°	2 1/2"	795C3N25

\* Interior volume with receptacle installed.


METAL BOX WITH NPT			
	0°	1 1/4"	7T5F0N12
	0°	1 1/2"	7T5F0N15
	0°	2"	7T5F0N20
	0°	2 1/2"	7T5F0N25


NPT on top or bottom (if rotated). For other configurations, contact Customer Service.

PROTECTIVE INLET/PLUG CAP		
	31-9A426	For Inlets/Plugs Only. Covers lockout hole for watertight seal on inlet. Consult Customer Service for availability.

PADLOCKABLE INLET/PLUG CAP		
	DS9MC	Aluminum – For Inlets/Plugs Only. -A155 suffix required on inlet part # to retain water ingress protection.

CORD GRIP WITH OPTIONS		
	see pg 159	

EASY RETROFIT ADAPTER PLATES		
	see pg 232	Mount to existing boxes.

RECEPTACLE LOCKING PIN		
	LP-843	Requires Padlockable Pawl option (-843) on receptacle.

# DR250 Standard Duty - 250 A

## UL/CSA Ratings

- **Max Amperage & Voltage**  
250 A, 600 VAC
- **Current Interruption Capability**  
Not for current interrupting  
For Switch-Rated devices, see DS & DSN sections.
- **Short Circuit Rating**  
10 kA  
Testing was performed with RK1 current limiting fuses sized at at least 100% of the device's ampacity rating.
- **Environmental Ratings**  
Type 4X/IP69/IP69K\*  
\*Also meets IP66/IP67 requirements
- **Temperature Range**  
Min -40°F/Max 140°F  
See pg 252 for temperatures outside of this range.
- **Wiring Capacity**  
Min 4 AWG Max 4/0 AWG  
Aux Contacts - Max 14 AWG  
\* Based on THHN wire sizes
- **Certifications**  
UL 1682, CSA 182.1, NOM

## Receptacle (female)



## Inlet (male)



**!** Don't forget to add installation accessories to your order

## North American UL/CSA Configurations

VOLTAGE	POLARITY	PART # METAL	PART # METAL
120 V	1P+N+G	39-24235-K16	39-28235-K16
120 208 V	3P+N+G	39-24237-K16	39-28237-K16
125 V	1P+N+G	39-24035-K07	39-28035-K07
125 250 V	2P+N+G	39-24036-K07	39-28036-K07
208 V	2P+G	39-24232-K16	39-28232-K16
208 V	3P+G	39-24233-K16	39-28233-K16
250 V	2P+G	39-24032-K07	39-28032-K07
250 V	3P+G	39-24033-K07	39-28033-K07
277 V	1P+N+G	39-24245-K04	39-28245-K04
277 480 V	3P+N+G	39-24247-K04	39-28247-K04
347 600 V	3P+N+G	39-24027-K14	39-28027-K14
480 V	2P+G	39-24242-K04	39-28242-K04
480 V	3P+G	39-24243-K04	39-28243-K04
600 V	2P+G	39-24022-K14	39-28022-K14
600 V	3P+G	39-24023-K14	39-28023-K14

For international configurations and ratings (IEC,CE) visit [meltric.com/international-catalog](http://meltric.com/international-catalog) or contact Customer Service at 800-433-7642.

## Main Options



**Auxiliary/Pilot Contacts**



**Mushroom Pawl**



**Padlock Pawl**



**Closed Lid Configuration**  
Recommended for cord applications to keep lid tucked in to avoid damage.

## RECEPTACLE OPTIONS

## SUFFIX #

## INLET OPTIONS

## SUFFIX #

With 2 Auxiliary/Pilot Contacts	<b>Recept # -972*</b>	With 2 Auxiliary/Pilot Contacts	<b>Inlet # -972*</b>
With 4 Auxiliary/Pilot Contacts	<b>Recept # -174+</b>	With 4 Auxiliary/Pilot Contacts	<b>Inlet # -174+</b>
With 6 Auxiliary/Pilot Contacts	<b>Recept # -976+</b>	With 6 Auxiliary/Pilot Contacts	<b>Inlet # -976+</b>
Mushroom Pawl	<b>Recept # -375</b>	For Microswitch	<b>Inlet # -270++</b>
Padlock Pawl	<b>Recept # -843</b>	With No Lockout Hole	<b>Inlet # -A155</b>
Screw-Type Locking Pawl	<b>Recept # -845</b>		
Closed Lid Configuration	<b>Recept # -NC</b>		
With Microswitch	<b>Recept # -270++</b>		

### Notes:

\* Customers needing to maintain compatibility with old style -172 auxiliary contacts should use a -172 suffix.



+ This option not available with N contact.

++ Not UL/CSA listed. Not available for 3P+N+G configurations.


**!** See pages 231-238 for detailed information on these options

**Order Example: 480 V DR250 + 2 auxiliary contacts**  
DR250 Metal inlet 3P+G = 39-28243-K04-972


# INSTALLATION ACCESSORIES – SIZE 6

HANDLES	HANDLE WITH NPT		PART # POLY	PART # METAL
		1"		516P0N10
1 1/4"			516P0N12	596P0N12
	1 1/2"		516P0N15	596P0N15
	2"		516P0N20	596P0N20
	2 1/2"		516P0N25	596P0N25
	3"		-	596P0N30



For available cord grips, see pg 159.


POLY HANDLE WITH CORD GRIP	CABLE RANGE	PART #
	1.520-1.860"	716P0GP2
	1.850-2.190"	716P0GP3*

\*May require stripping of cable jacket.

METAL HANDLE WITH CORD GRIP	CABLE RANGE	PART #
	1.688-1.812"	796P0GS1
	1.812-1.938"	796P0GS2*
	1.938-2.062"	796P0JS1
	2.062-2.188"	796P0JS2
	2.188-2.312"	796P0JS3
	2.312-2.438"	796P0JS4*
	2.437-2.625"	796P0KS1
	2.625-2.812"	796P0KS2

\*May require stripping of cable jacket.


STRAIGHT HANDLE	CABLE RANGE	PART #	NPT	PART #
	1.57-1.97"	5K6P0D50	1 1/2"	5K6P0N15L
	2.01-2.36"	5K6P0D60	2"	5K6P0N20L
	2.40-2.76"	5K6P0D70	2 1/2"	5K6P0N25L
	2.79-3.15"	5K6P0D80	3"	5K6P0N30L

METAL OVERSIZED HANDLE WITH NPT	CABLE RANGE	PART #
	1 1/4"	796P0N12
	1 1/2"	796P0N15*
	2"	796P0N20
	2 1/2"	796P0N25
	3"	796P0N30

For available cord grips, see pg. 159.

SANTOPRENE HANDLE	CABLE RANGE	PART #
	.984-1.377"	556P0D35
	1.377-1.771"	556P0D45
	1.771-1.929"	556P0D49

ANGLES	METAL ANGLE	PART #	Notes
	0°	596M0	
	45°	796M4	Mounts on oversize metal box only.
	60°	596M6	
	60° EXTENDED	597M6	





BOXES	METAL ANGLE WITH METAL BOX WITH NPT	PART #	Notes
	60° 1 1/2"	796C6N15	* Interior volume with receptacle installed.
	60° 2"	796C6N20	
	60° 2 1/2"	796C6N25	

\* 248.4 in<sup>3</sup>

METAL BOX WITH NPT	CABLE RANGE	PART #
	0° 1 1/2"	7T6F0N15
	0° 2"	7T6F0N20
	0° 2 1/2"	7T6F0N25

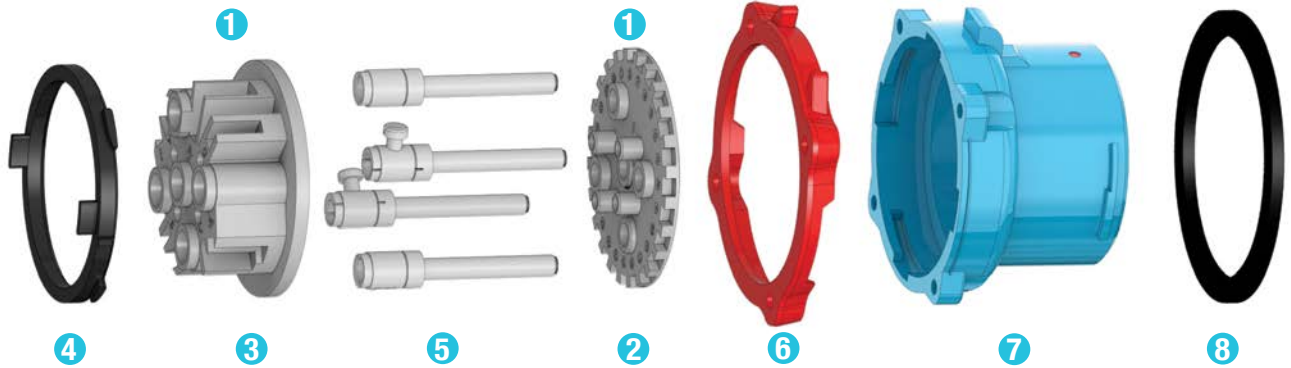
METAL OVERSIZED BOX WITH NPT	CABLE RANGE	PART #
	0° 2"	7T6F0N20XL
	0° 2 1/2"	7T6F0N25XL
	0° 3"	7T6F0N30XL






NPT on top or bottom (if rotated). For other configurations, contact Customer Service.

MISCELLANEOUS ACCESSORIES	Part #	Description
	39-2A426	Covers lockout hole for watertight seal on inlet. Consult Customer Service for availability. For Inlets/Plugs Only.
	DS2MC	Aluminum – For Inlets/Plugs Only. -A155 suffix required on inlet part # to retain water ingress protection.
	see pg 159	
	LP-843	Requires Padlockable Pawl option (-843) on receptacle.

# DR Spare Parts

## Male Configuration

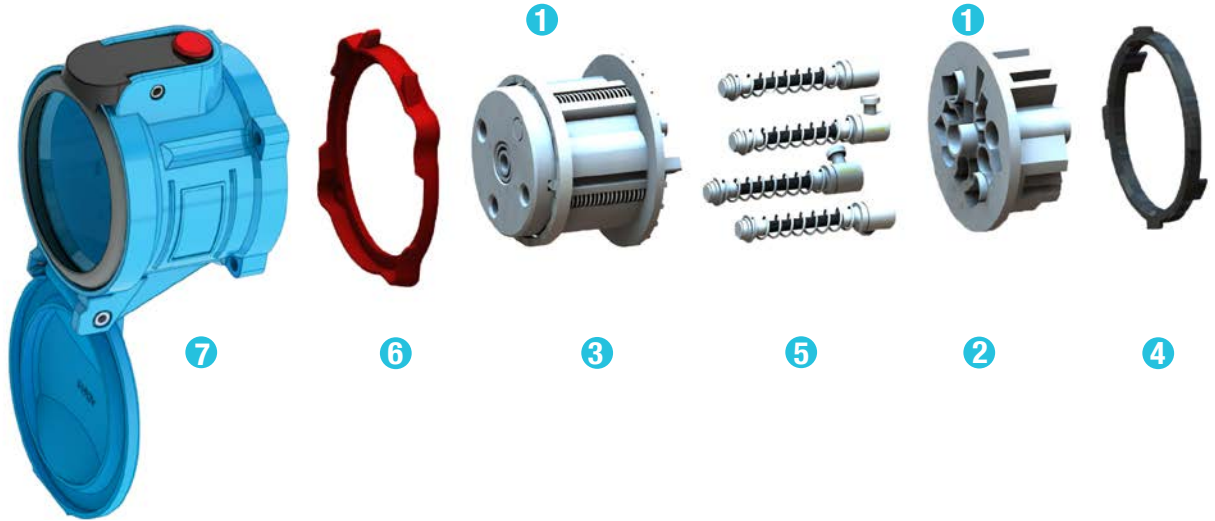


		DR30 POLY	DR50 POLY	DR100 POLY	DR100 METAL	DR150 POLY	DR150 METAL	DR250 METAL
1	Plug Insulator	31-1A010*	31-3A010*	31-6A010*	39-6A010*	31-9A010*	39-9A010*	39-2A010*
2	Insulator Bottom	31-1A010-B	31-3A010-B	31-6A010-B	39-6A010-B	31-9A010-B	39-6A010-B	39-2A010-B
3	Insulator Top	31-1A010-T*	31-3A010-T*	31-6A010-T*	39-6A010-T	31-9A010-T*	39-9A010-T*	39-2A010-T*
4	Locking Ring	31-1A583	31-3A583	31-6A583	39-6A583	31-9A583	39-9A583	39-2A583
5	Plug Phase Contact	31-1A011	31-3A011	31-6A011	39-6A011	31-9A011	39-9A011	39-2A011
5	Plug Pilot Contact	31-1A011-972	31-3A011-972	31-6A011-972	39-6A011-972	31-9A011-972	39-9A011-972	39-2A011-972
5	Plug Ground Contact	31-1A019	31-3A019	31-6A019	39-6A019	61-9A019	39-9A019	39-2A019
6	Color-Coded Voltage Gasket	 31-1AJ26	31-3AJ26	31-6AJ26	39-6AJ26	31-9AJ26	39-9AJ26	39-2AJ26
		 31-1AC26	31-3AC26	31-6AC26	39-6AC26	31-9AC26	39-9AC26	39-2AC26
		 31-1AB26	31-3AB26	31-6AB26	39-6AB26	31-9AB26	39-9AB26	39-2AB26
		 31-1AR26	31-3AR26	31-6AR26	39-6AR26	31-9AR26	39-9AR26	39-2AR26
		 31-1AN26	31-3AN26	31-6AN26	39-6AN26	31-9AN26	39-9AN26	39-2AN26
7	Plug Casing	31-1A014*	31-3A014*	31-6A014*	39-6A014*	31-9A014*	39-9A014*	39-2A014*
8	Type 4X Gasket	31-1A056	31-3A056	-	-	-	-	-

\* Please provide full part number for accurate part alignment

Part numbers in catalog are for current revisions, others may be available upon request

# Female Configuration



	DR30 POLY	DR50 POLY	DR100 POLY	DR100 METAL	DR150 POLY	DR150 METAL	DR250 METAL
1 Receptacle Insulator	31-1A020*	31-3A020*	31-6A020*	39-6A020*	31-9A020*	39-9A020*	39-2A020*
2 Insulator Bottom	31-1A020-B	31-3A320	31-6A020-B	39-6A020-B	31-9A020-B	39-9A020-B	39-2A020-B
3 Insulator Top	31-1A020-T*	31-3A020-T*	31-6A020-T*	39-6A020-T*	31-9A020-T*	39-9A020-T*	39-2A020-T*
4 Locking Ring	31-1A583	31-3A583	31-6A583	39-6A583	31-9A583	39-9A583	39-2A583
5 Receptacle Phase Contact	31-1A021	31-3A021	31-6A021	39-6A021	31-9A021	39-9A021	39-2A021
5 Receptacle Pilot Contact	31-1A021-972	31-3A021-972	31-6A021-972	39-6A021-972	31-9A021-972	39-9A021-972	39-2A021-972
5 Receptacle Ground Contact	31-1A029	31-3A029	31-6A029	39-6A029	31-9A029	39-9A029	39-2A029
6 Color-Coded Voltage Gasket	 31-1AJ26	31-3AJ26	31-6AJ26	39-6AJ26	31-9AJ26	39-9AJ26	39-2AJ26
	 31-1AC26	31-3AC26	31-6AC26	39-6AC26	31-9AC26	39-9AC26	39-2AC26
	 31-1AB26	31-3AB26	31-6AB26	39-6AB26	31-9AB26	39-9AB26	39-2AB26
	 31-1AR26	31-3AR26	31-6AR26	39-6AR26	31-9AR26	39-9AR26	39-2AR26
	 31-1AN26	31-3AN26	31-6AN26	39-6AN26	31-9AN26	39-9AN26	39-2AN26
7 Receptacle Casing	31-1A024*	31-3A024*	31-6A024*	39-6A024*	31-9A024*	39-9A024*	39-2A024*
Lid Replacement Kit	31-1A125	31-3A125	31-6A125	39-6A925	31-9A125	39-9A925	39-2A925
Pawl Replacement Kit Polyester	31-1A824	31-3A824	31-6A824	-	31-9A824	-	-
Pawl Replacement Kit Metal	31-1A924	31-3A924	31-6A924	39-6A924	31-9A924	39-9A924	39-2A924
Drawbar Replacement Kit	-	-	-	-	31-9A726	39-9A726	39-2A726

\* Please provide full part number for accurate part alignment

Part numbers in catalog are for current revisions, others may be available upon request

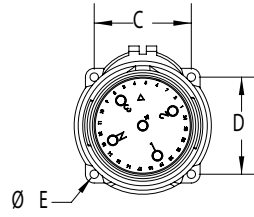
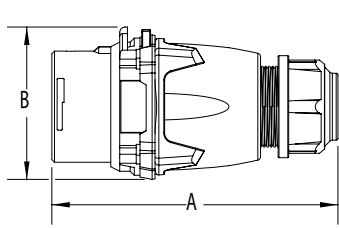
# DR DIMENSIONS – Provided in Inches

SCAN  
ME >>

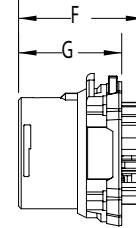


Dimensions are for reference only and may change depending on accessories used. For precise dimensions contact MELTRIC Engineering.

## Plug

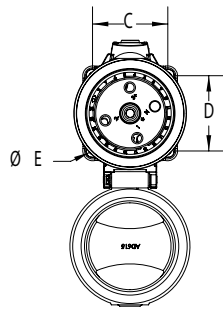
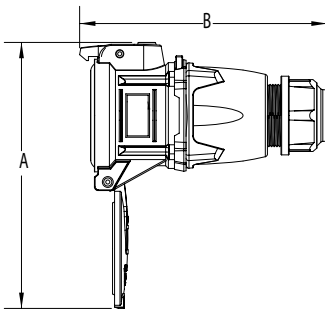


## Inlet

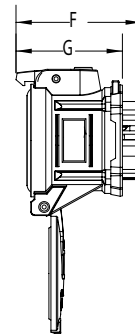


PRODUCT	A	B	C	D	øE	F	G
DR30	5.72	2.79	1.89	1.89	0.20	2.28	1.86
DR50	6.15	3.23	2.17	2.17	0.20	2.93	2.07
DR100/DR7c	6.70	3.77	2.59	2.59	0.24	3.42	2.38
DR150	8.33	4.59	3.20	3.20	0.24	4.14	3.04
DR250	10.30	5.67	3.86	3.86	0.26	4.66	3.20

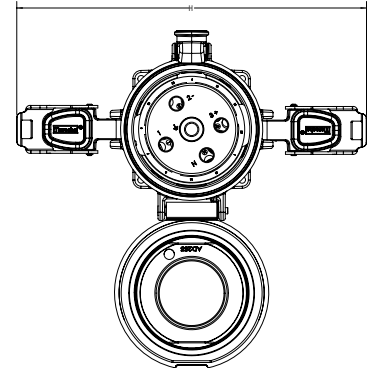
## Connector



## Receptacle

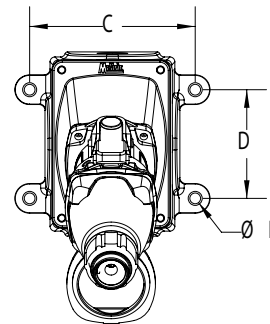
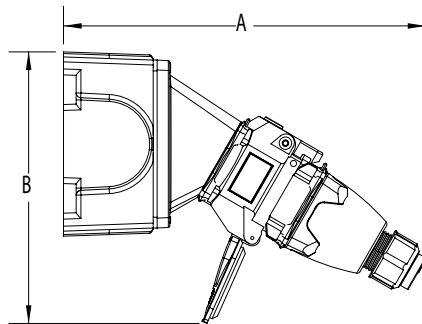


## Extended Draw bars



PRODUCT	A	B	C	D	øE	F	G	H
DR30	6.32	6.38	1.89	1.89	0.20	3.30	2.6	N/A
DR50	7.16	6.93	2.17	2.17	0.20	3.73	2.87	N/A
DR100/DR7c	8.46	7.90	2.59	2.59	0.22	4.53	3.37	N/A
DR150	11.04	10.02	3.20	3.20	0.23	5.71	4.74	11.25
DR250	12.70	10.87	3.86	3.86	0.26	6.21	4.75	12.07

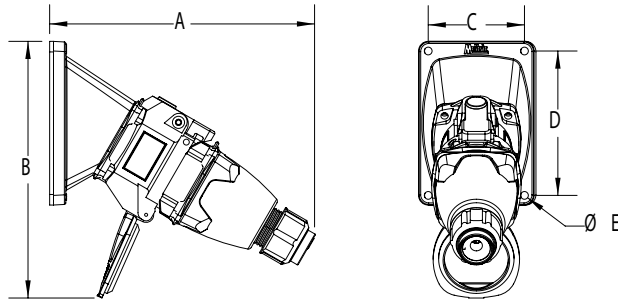
## Box/30° Angle/ Receptacle/Plug



PRODUCT	A	B	C	D	øE
DR30	9.85	7.60	4.19	2.75	0.27
DR50	10.48	8.20	4.19	2.75	0.27
DR100/DR7c	11.87	10.74	5.00	3.81	0.33
DR150	16.06	10.33	6.75	4.25	0.31
DR250	15.76	12.70	8.13	6.38	0.31

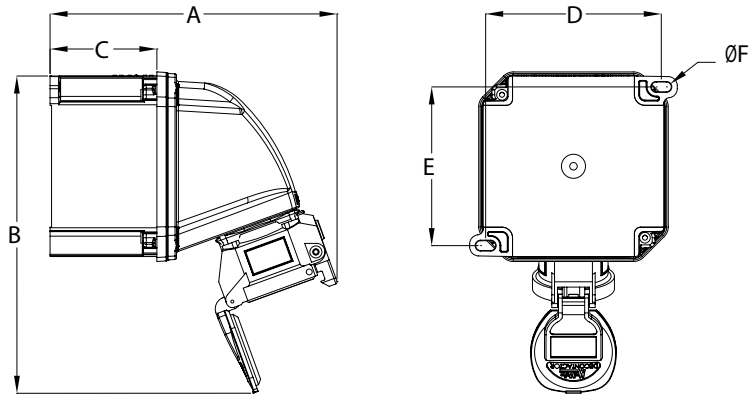


30° Angle/Receptacle/Plug



PRODUCT	A	B	C	D	øE
DR30	7.60	7.87	2.50	3.75	0.22
DR50	8.19	8.44	2.50	3.75	0.22
DR100/DR7c	9.17	10.45	3.43	4.83	0.26
DR150	14.09	12.05	4.83	4.83	0.28
DR250	11.61	16.20	6.50	6.50	0.25

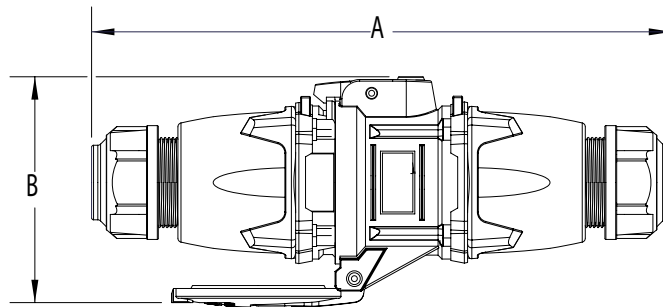
70° Wall Box/Receptacle



PRODUCT	A	B	C	D	E	øF
DR30	7.51	8.30	2.80	4.60	4.15	0.26
DR50	7.93	9.51	2.80	4.60	4.15	0.26
DR100/DR7c*	9.07	12.70	2.80	6.17	5.73	0.26

\* Box has 4 mounting feet

Plug/Connector



PRODUCT	A	B
DR30	10.20	4.61
DR50	10.91	5.71
DR100/DR7c	12.17	6.57
DR150	19.53	8.03
DR250	23.15	8.00

