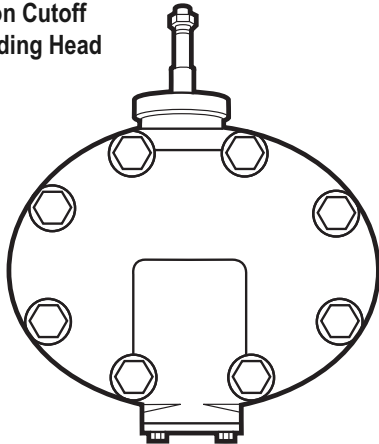


Compressors, Chillers & Condensers

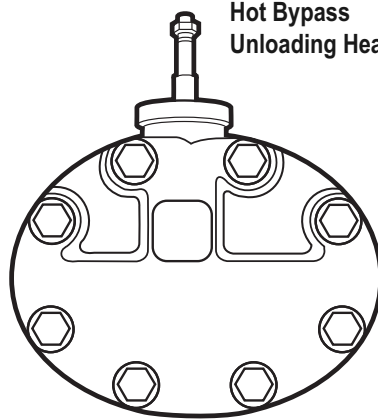
CARLYLE SEMI-HERMETIC COMPRESSORS/ACCESSORIES

SUCTION CUTOFF UNLOADING VS HOT GAS BYPASS UNLOADING

Suction Cutoff Unloading Head



Hot Bypass Unloading Head



Suction cutoff unloading is a more efficient unloading method for the 06D/06E compressors. There are substantial energy savings and improved compressor reliability when a hot gas bypass unloading system is replaced with suction cutoff unloading.

Since 1981 many of the Commercial Products Carrier produced with 06E compressors utilized "Suction Cutoff Unloading" in place of Hot Gas Bypass Unloading. It is easy to identify a suction cutoff unloading compressor from a hot gas bypass unloading compressor. This can be done in one of two ways:

- #1) The Finished Goods (new) compressor model number is different than the hot gas bypass model number.
- #2) The unloading heads themselves physically look different.

The parts used in Hot Gas Bypass are different from those used in Suction Cutoff Unloading. These differences are:

CENTER CYLINDER HEAD 06EA502074 STANDARD HEAD 06E502084 REVERSED HEAD

SUCTION CUTOFF		HOT GAS BYPASS	
06E	2	06E	B
COMPRESSOR FAMILY	COMPRESSOR SIZE	COMPRESSOR FAMILY	COMPRESSOR SIZE
	275		275
	660		660
	VOLTAGE		VOLTAGE
2	one electric unloader	B	one electric unloader
3	two electric unloaders	C	two electric unloaders
4	one pressure unloader	D	one pressure unloader
5	two pressure unloaders	E	two pressure unloaders
6	one electric unloader	J	one electric unloader
7	two electric unloaders	K	two electric unloaders
8	one pressure unloader	L	one pressure unloader
9	two pressure unloaders	N	two pressure unloaders
Reversed Center Head (6 cylinder)		Reversed Center Head (6 cylinder)	

HOT GAS BYPASS PART NO	SUCTION CUTOFF PART NO	CENTER CYLINDER HEAD	DESCRIPTION
06EA660105	--	06EA680137	Valve Plate Package
06EA503314	--	06EA503334 (stnd)	Cylinder Head Gasket
--	06EA660137	06EA660137	Valve Plate Package
--	06EA503334	06EA503314 (rev)	Cylinder Head Gasket
--	06EA503524	--	Cylinder Head

The valve plate gasket for both Hot Gas Bypass and Suction Cutoff is 06EA504884.

Both hot gas bypass and suction cutoff use the same Control Valve Packages:

Pressure Control Valve **P/N 06EA660100**

Electric Control Valve **P/N 06EA660135**

These control valves are similar to those you used in the past except that the bypass piston is now separate from the valve and the pressure control valve has had internal modifications that allow it to operate on suction cutoff applications

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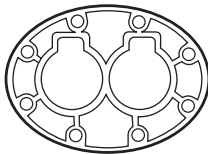
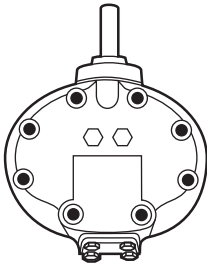
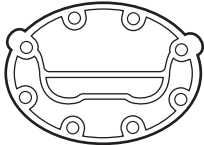
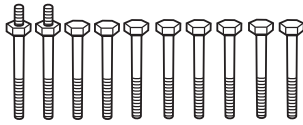
Accessories, Supplies
& Commodities

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CARLYLE SEMI-HERMETIC COMPRESSORS/ACCESSORIES 06D SUCTION CUTOFF UNLOADING KITS

ELECTRIC CAPACITY CONTROL Part No. 06DA660089



The capacity control valve in this package is actuated by an electric solenoid. The solenoid is either energized or de-energized by the action of an external controller. The solenoid coil is not supplied with this package.

This package can be used to (1) convert an 06D compressor with hot gas bypass unloading to electrically operated suction cutoff unloading, (2) add unloading or (3) add a second bank of unloading to an 06D compressor.

The kit consists of the following:

Cylinder Head **06DA504614** Assembly (incl. 06EA660135 capacity control valve)

Valve Plate Gasket **06DA500153**

Cylinder Head Gasket **05GA502223**

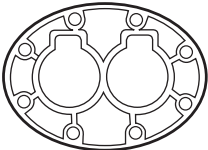
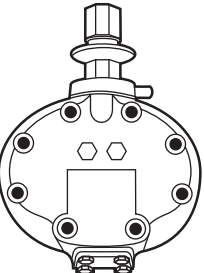
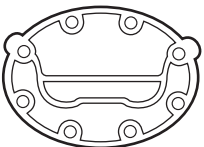
Cylinder Head Bolts **AA06GR239**

Instructions

Solenoid Coils for electric unloader valve: **(NOT INCLUDED)**

PART NO.	VOLTAGE
EF19ZE024	24
EF19ZE120	120
EF19ZE240	208-240

06D SUCTION CUTOFF UNLOADING KITS WITH PRESSURE CAPACITY CONTROL PACKAGE PART NUMBER: 06DA660090



NOT RECOMMENDED FOR REFRIGERATION APPLICATIONS

The capacity control valve in this package is controlled by suction pressure and actuated by discharge pressure. This package can be used to:

- (1) convert an 06D compressor with hot gas bypass unloading to suction cutoff unloading,
- (2) add unloading, or
- (3) add a second bank of unloading to an 06D compressor.

The kit consists of the following:

Cylinder Head Assembly **06DA504614**(incl.06EA660100 capacity control valve)

Valve Plate Gasket **06DA500153**

Cylinder Head Gasket **050A502223**

Cylinder Head Bolts **AA06GR239**

Instructions

Compressors, Chillers & Condensers

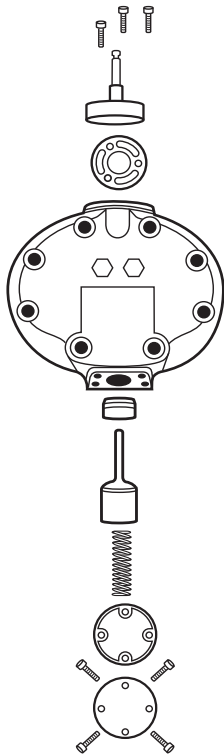
CARLYLE SEMI-HERMETIC COMPRESSORS/ACCESSORIES 06D SUCTION CUTOFF UNLOADER REPAIR KIT 06DA660111 SUCTION CUTOFF UNLOADING

This kit contains the parts used internally for the suction cutoff unloading head. It is used for both electric and pressure operated suction cutoff unloading applications. The kit **does not** contain the capacity control valve.

The kit contains the following:

Piston and Ring **06DA503072**
Valve Body **06DA502963**
Spring **06DA502953**
Capacity Control Valve Gasket **06EA501253**
Cover Gasket **06DA502983**
Strainer **6D75601**
Instructions

06E SUCTION CUTOFF UNLOADER REPAIR KIT ELECTRIC CAPACITY CONTROL MODIFICATION PACKAGE 06EA660138



The capacity control valve in this package is actuated by an electric solenoid. The solenoid is either energized or de-energized by the action of an external controller. The solenoid coil **is not** supplied with this package.

This package can be used to

- (1) convert an 06E compressor with hot gas bypass unloading to electrically operated suction cutoff unloading,
- (2) add unloading or
- (3) add a second bank of unloading to an 06D compressor.

The kit consists of the following:

Cylinder Head **06EA502094** Assembly (incl. **06EA660135** electric capacity control valve)
Valve Plate Gasket A/C **06EA506414** & Ref. **06EA501853**
Suction Valves **06EA660104**
Cylinder Head Gasket **06EA503334**
Capscrews **AB44AA168**
Washers **AU52YA171**
Instructions

Solenoid Coils for electric unloader valve: **(NOT INCLUDED)**

PART NO.	VOLTAGE
EF19ZE024	24
EF19ZE120	120
EF19ZE240	208-240

SUCTION CUTOFF UNLOADING REPAIR KIT 06EA660079

This kit contains the parts used internally for the suction cutoff unloading head. It is used for both electric and pressure operated suction cutoff unloading applications. The kit **does not** contain the capacity control valve.

The kit contains the following:

Piston **06EA505224**
Ring **06EA502023**
Valve Body **06DA408824**
Spring
Capacity Control Valve Gasket **06EA501253**
Cover Gasket **06EA501382**
Strainer **6D75601**
Instructions

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CARLYLE SEMI-HERMETIC COMPRESSORS/ACCESSORIES 06E SUCTION CUTOFF UNLOADING KIT

PRESSURE CAPACITY CONTROL MODIFICATION PACKAGE
PART NO. 06EA660139

NOT RECOMMENDED FOR REFRIGERATION APPLICATIONS

The capacity control valve in this package is controlled by suction pressure and actuated by discharge pressure. This package can be used to

- (1) convert an 06E compressor with hot gas bypass unloading to pressure operated suction cutoff unloading,
- (2) add unloading, or
- (3) add a second bank of unloading to an 06E compressor.

The kit contains the following:

Cylinder Head **06EA502094** (incl. **06EA660100** electric capacity control valve)
Valve Plate Gasket A/C **06EA506414**
Suction Valves **06EA660104**
Cylinder Head Gasket **06EA503334**
Capscrews **AB44AA168**
Washers **AU52YA171**
Instructions

SUCTION CUTOFF UNLOADING REPAIR KIT 06EA660079

This kit contains the parts used internally for the suction cutoff unloading head. It is used for both electric and pressure operated suction cutoff unloading applications.

The kit **does not** contain the capacity control valve.

The kit contains the following:

Piston **06EA505224**
Ring **06EA502023**
Valve Body **06DA408824**
Spring
Capacity Control Valve Gasket **06EA501253**
Cover Gasket **06EA501382**
Strainer **6D75601**
Instructions

CONTROL VALVE KITS

These kits contain the capacity control valve. The 06D and 06E compressors use the same capacity control valve. (The piston assembly is used with hot gas bypass unloading only.)

06EA660100 Pressure operated kit contains the following:

Pressure Operated Capacity Control Valve **06EA660100**
Capacity Control Valve Gasket **06EA501253**
Piston Assembly (for HGBP) **06EA505224**
Wrench **06EA680036**
Instructions

06EA660135 Electrically operated kit contains the following:

Electrically Operated Capacity Control Valve **06EA660135**
(Select appropriate solenoid coil: 24, 120, or 208-240V)
Capacity Control Valve Gasket **06EA501253**
Piston Assembly (for HGBP) **06EA505224**
Instructions

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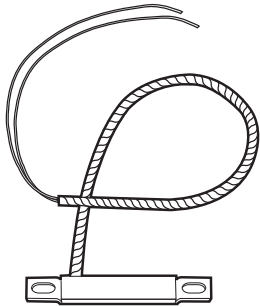
Accessories, Supplies
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Compressors, Chillers & Condensers

CARLYLE SEMI-HERMETIC COMPRESSORS/ACCESSORIES CRANKCASE HEATERS



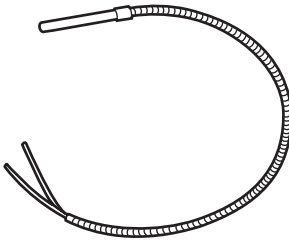
BAR/STRIP STYLE 06D, 2 CYL. AND 4 CYL. 8, 9, 13, 16 CFM MODELS

Dimensions: 7 1/2" Long, 1" Wide, 1/2" Thick

PART NO	WATTS	VOLTS	LEAD LENGTH (in)	CONDUIT LENGTH (in)
06DA660091	50	115	39	24
06DA660092	50	230	39	24

06D, 06E, 06CC, 06CY

- NEW STRAIGHT TUBE HEATER DESIGN
- KIT CONTAINS CRANKCASE HEATER, RETAINER CLIP AND ANTI-SHORT BUSHING, **HEAT CONDUCTING GREASE (P/N: 38AQ680001)**



CRANKCASE HEATER PACKAGE	HEATER NUMBER	WATTS	VOLTS	CONDUIT LENGTH (in)	WIRE LENGTH (in)
06EA660165	HT36DM132	180	115	19	24
06EA660167	HT36DM134	180	115	52	73
06EA660166	HT36DM432	180	230	19	24
06EA660168	HT36DM434	180	230	52	73
06DA660076	HT36DL480	125	480	NONE	24
06EA660107	HT36FL379	125	120	52	73
06EA660108	HT36FL479	125	240	52	73

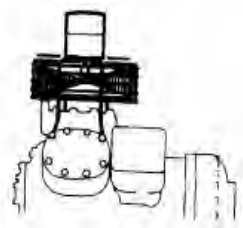
LIQUID INJECTION VALVES (For R-22 Low Temp. Apps)

06DR, 06EY, 06CY

PART NO.	VALVE SIZE	USAGE
EA11ZC011	1/2 Ton	All 06DR, 06CY16, 18, 24, 25, 28, 37
EA11ZC022	1 Ton	06EY750, 765, 775 — 06CY550, 665, 675
EA11ZC030	1 1/2 Ton	06EY799 — 06CY899

OPTIONAL ACCESSORIES

06D CYLINDER HEAD COOLING FAN PACKAGE



	P/N	
06DR	06DR660014	208/230-1-60/1550 RPM
06EY	06ER660011	208/230-1-60/1550 RPM

06D SIGHT GLASS REMOVAL TOOL
PART NO
T-133300B-1
06D TERMINAL LUG SOCKET TOOL
PART NO
P920-0009

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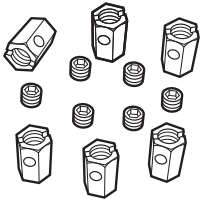
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Chemicals

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& Commodities

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CARLYLE SEMI-HERMETIC COMPRESSORS/ACCESSORIES OPTIONAL ACCESSORIES

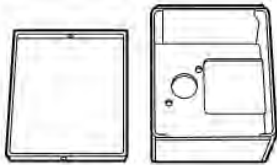


Part No.: 06DA660095

06D TERMINAL BOX KITS

This kit consists of the terminal box and cover plus all screws, washers, and terminals.

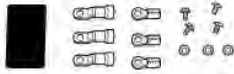
06DA660075 can be used in place of 06DA660078 Terminal Box and Cover Package if overloads are to be used with the compressor. However, it may be necessary to field fabricate a mounting box spacer to allow the 06DA660075 box to mount on the compressor body without interfering with the Compressor Terminal Insulator.



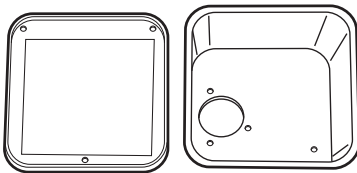
PART NO

06DA660075

P70

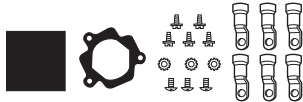


The 06DA660078 Terminal Box and Cover Package mounts directly to the Terminal Plate.



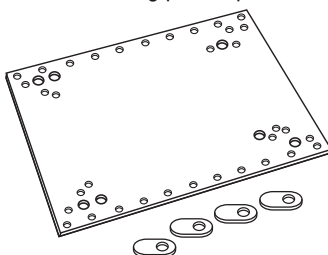
PART NO

06DA660078



06D, 06E COMPRESSOR MOUNTING PLATE KIT

This universal mounting plate kit will accommodate any size 06D or 06E compressor offered by RCD. The kit includes the predrilled mounting plate, spacers and template.



PART NO

06EA660096

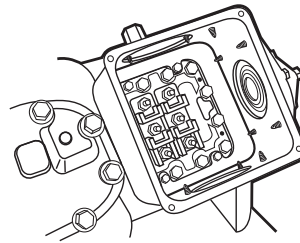
06E TERMINAL LUGS



FITS WIRE SIZE	PART NO.
#8 to #4	HY85TB008
#4 to #1	HY85TB004

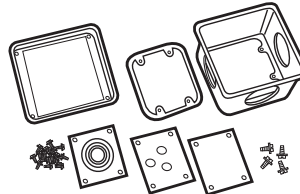
NOTE: For some 200/230 volt across the line installations, the connection of 3 power wires to the compressor may not be possible because the wire diameter may be too large to fit the below listed lugs. In these instances we recommend that 6 motor leads and 6 terminal lugs be used to connect to the compressor terminal plate. The use of 6 leads (instead of 3) allows for a wire sized reduction. Consult the National Electric Code or your local electric code for the appropriate wire sizing information.

06E TERMINAL BOX KITS



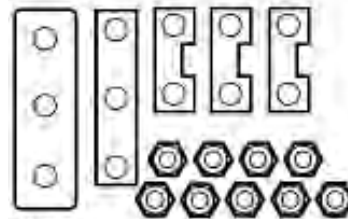
This kit consists of the terminal box, cover, gasket and 3 cover plates (one blank, one with 3 knock-outs, one with concentric knockouts). Screws are included.

Part No.: 06EA660095



06D TERMINAL PLATE KIT

Part No.: 06EA660141



P56

06D Replacement Terminal Plate Kit

Part No.: 06DA660-134

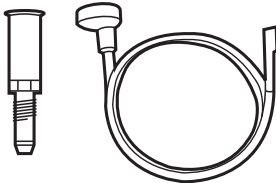
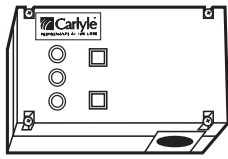
Replacement Gasket Only

Part No.: 6D401061

Compressors, Chillers & Condensers

CARLYLE SEMI-HERMETIC COMPRESSORS/ACCESSORIES OPTIONAL ACCESSORIES

06D, 06E ELECTRONIC LUBE OIL CONTROL



PART NO
06DA660115

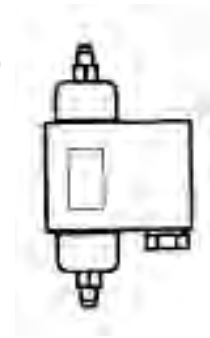
- Solid State
- LED'S continuously display status of the compressor lubrication system.
- When control is connected to 06E bearing head or 6D68-952A (new 06D bearing head) external tubing is eliminated.
- Timing is not cumulative as in controls using a thermal timing circuit. Each time a low oil pressure condition is sensed the time delay will be of full duration.
- Short cycle protection - select either 35, 65 or 100 second time delay periods to prevent rapid cycling (feature can also be bypassed)
- Manual Reset

SPECIAL GASKET FOR TRANSDUCER & BEARING HEAD CONNECTION

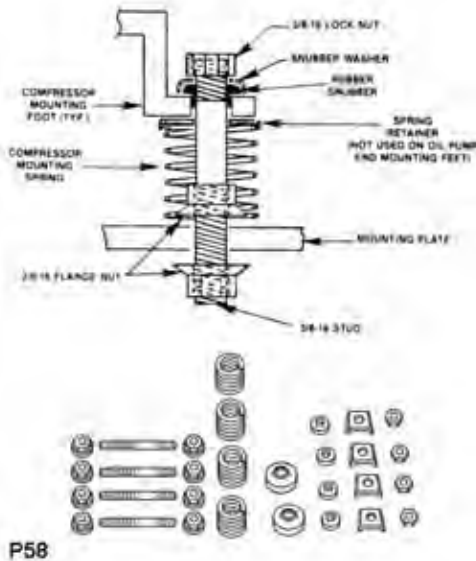
PART NO
06DA680-063

06D, 06E LUBE OIL CONTROL

PART NO
060B2008



06D, 06E SUSPENSION KIT



COMPRESSOR MODEL NO.	SUSPENSION KIT PART NO.	COMPRESSOR MODEL NO.	SUSPENSION KIT PART NO.
06ET150	06EA660089	06DR1096	06DA660058
250		136	06DA660056
265		3166	06DA660056
175		7186	06DA660056
275		8206	06DA660056
299	06EA660089	7246	06DA660057
06EX150		2286	06DA660057
250		3376	06DA660057
166		06DM8086	06DA660058
266		3136	06DA660056
265		3166	06DA660056
175		8186	06DA660056
275		3376	06DA660056
199		5376	06DA660057
299		7246	06DA660057
06EY150	06EA660089	8246	06DA660057
166		06CY016	06DA660057
175		18	06DA660057
099	06DA660056 06DA660057	124	06DA660057
06EZ150		228	06DA660057
266		337	06DA660057
175		550	06EA660089
199		665	06EA660089
06DX8186		675	06EA660089
7246		899	06EA660089
8246			
3286			
3376			
5376			

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CARLYLE SEMI-HERMETIC COMPRESSORS/ACCESSORIES OPTIONAL ACCESSORIES

06D COMPRESSOR OVERLOADS

COMPRESSOR SIZE	VOLTAGE	PART NO.	REMARKS
06DR109	208/230-1-60	HN69GZ025 HN69GZ032	Common Start
06DM808 06DR013	208/230-1-60	HN69GZ024 HN69GZ014	Common Start
06DM313 06DM316 06DR316 06DR718	208/230-1-60	HN69GZ106 HN69GZ037	Common Start
06DR109	208/230 460 575	HN69GZ007 HN69GZ015 HN69GZ011	2 Required
06DM808 06DR013	208/230 460 575	HN69GZ053 HN69GZ012 HN69GZ012	2 Required
06DM313 06DM316 06DR316 06DR718	208/230 460 575	HN69GZ024 HN69GZ014 HN69GZ032	2 Required
06DA818 06DR820 06DR724 (25)	208/230 460 575	HN69GZ214 HN69GZ038 HN69GZ037	2 Required
06DA824 (25) 06DR228	208/230 460 575	HN69GZ306 HN69GZ010 HN69GZ053	2 Required
06DA328 06DM337 06DR337	208/230 460 575	HN69GZ309 HN69GZ024 HN69GZ025	3 Required 2 Required 2 Required
06DA537 06DR541	208/230 460 575	HN69GZ214 HN69GZ106 or HN69GZ307 HN69GZ301	4 Required** 2 Required 2 Required

*Based on new High Efficiency (HE) extended voltage compressor models.
**Two overloads in parallel in legs 1 and 3.

NOTE: Most 06D compressors have internal thermostat installed in motor & wired across terminals 8 & 9 at the terminal block. It trips (opens) control circuit at 221°F (105°C) and resets at 181°F (83°C).

Compressors, Chillers & Condensers

SHIPPING PAD INFORMATION

MODEL	SUCTION VALVE BLANK OFF PAD	BOLTS	SUCTION VALVE PAD GASKET	DISCHARGE VALVE BLANK OFF PAD	BOLTS	DISCHARGE VALVE PAD GASKET
06DR						
109	06DA504283*	(2) AA06GR199	6D23-1421	06DA504283*	(2) AA06GR199	6D23-1421
013, 316	06DA504253*	(2) AA06GR202	6D40-1131	06DA504243*	(2) AA06GR202	6D23-1421
718, 820	06DA502573*	(4) AA06GR293	6D68-1131	06DA504243*	(2) AA06GR202	6D23-1421
724, 228, 337	06DA502573*	(4) AA06GR293	6D68-1131	06DA504253*	(2) AA06GR202	6D40-1131
06DM						
808	06DA504283*	(2) AA06GR199	6D23-1421	06DA504283*	(2) AA06GR199	6D23-1421
313, 316, 818	06DA504253*	(2) AA06GR202	6D40-1131	06DA504243*	(2) AA06GR202	6D23-1421
724, 824						
2 BOLT SUC. VAL.	06DA504253*	(2) AA06GR202	6D40-1131	06DA504243*	(2) AA06GR202	6D40-1421
4 BOLT SUC. VAL.	06EA502573*	(4) AA06GR293	6D68-1131	06DA504243*	(2) AA06GR202	6D40-1421
337, 537	06EA502573*	(4) AA06GR293	6D68-1131	06DA504253*	(2) AA06GR202	6D40-1421
06DX						
818	06DA504253*	(2) AA06GR202	6D40-1131	06DA504243*	(2) AA06GR202	6D23-1421
724, 824 W/:						
2 BOLT SUC. VAL.	06DA504253*	(2) AA06GR202	6D40-1131	06DA504243*	(2) AA06GR202	6D40-1131
4 BOLT SUC. VAL.	06EA502273*	(4) AA06GR293	6D68-1131	06DA504243*	(2) AA06GR202	6D40-1131
328, 337, 537	06EA502273*	(4) AA06GR293	6D68-1131	06DA504253*	(2) AA06GR202	6D40-1131
06DS						
313, 818	06DA504253*	(2) AA06GR202	6D40-1131	06DA504243*	(2) AA06GR202	6D23-1421
824	06EA502573*	(4) AA06GR293	6D68-1131	06DA504243*	(2) AA06GR202	6D40-1131
328, 537	06EA502573*	(4) AA06GR293	6D68-1131	06DA504253*	(2) AA06GR202	6D40-1131
06ET						
150, 250	06EA502573*	(4) AA06GR293	6D68-1131	06DA504253*	(2) AA06GR200	6D40-1131
265	06EA502573*	(4) AA06GR293	6D68-1131	06EA502573*	(4) AA06GR200	6D68-1131
175, 275, 199, 299	06EA402653*	(4) AA06GR323	06EA500181	06EA502573*	(4) AA06GR293	6D68-1131
06EX						
150, 250	06EA502573*	(4) AA06GR293	6D68-1131	06DA504253*	(2) AA06GR200	6D40-1131
265	06EA502573*	(4) AA06GR293	6D68-1131	06EA502573*	(4) AA06GR200	6D68-1131
166	06EA502573*	(4) AA06GR293	6D68-1131	06DA504253*	(2) AA06GR200	6D40-1131
175, 275, 199, 299	06EA402653*	(4) AA06GR323	06EA500181	06EA502573*	(4) AA06GR293	6D68-1131
06EY						
150, 165	06EA402653*	(4) AA06GR323	06EA500181	06DA504253*	(2) AA06GR200	6D40-1131
166, 175, 099	06EA402653*	(4) AA06GR323	06EA500181	06EA502573*	(4) AA06GR293	6D68-1131
06EZ						
150, 266	06EA402653*	(4) AA06GR323	06EA500181	06DA504253*	(2) AA06GR200	6D40-1131
175, 199	06EA402653*	(4) AA06GR323	06EA500181	06EA502573*	(4) AA06GR293	6D68-1131

*05GA501762 plug required.

Unloader valve blank off plate: 06DA501032 for both 06D and 06E models.

Compressors,
Chillers, Condensers

Motors

Electrical

Heating
Components

Indoor Air
Quality

Thermostats

Oils &
Chemicals

Accessories, Supplies
& Commodities

Tools &
Instruments

Refrigeration