

# Component Procedures: High Pressure Safety Valve HVAC

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# Component Procedures: High Pressure Safety Valve HVAC

## Parts and Labor (itype\_189)

### Labor

Operation	Qualifier Path	Skill	Std Hrs	Wty Hrs
Replace	Pressure Relief Valve	B	0.4	0.2

## High Pressure Relief Valve (Article 2026618)

### SYSTEM OPERATION

#### High Pressure Relief Valve

A high

pressure relief valve

is located on the

compressor

cylinder head, which is at the rear of the compressor. This mechanical valve is designed to

vent

refrigerant

from the system to protect against damage to the compressor and other system components, caused by condenser

air flow restriction or an overcharge of refrigerant.

The high pressure relief valve vents the system when a discharge pressure of

3445 to 4135 kPa (500 to 600 psi)

or above is reached. The valve closes with a minimum discharge pressure of

2756 kPa (400 psi)

is reached.

The high pressure relief valve vents only enough refrigerant to reduce the system pressure, and then re-seats

itself. The majority of the refrigerant is conserved in the system. If the valve vents refrigerant, it does

not mean the valve is faulty.

The high pressure relief valve is a factory-calibrated unit. The valve cannot be adjusted or repaired, and

must not be removed or otherwise disturbed. The valve is only serviced as a part of the compressor assembly.

## Components (itype\_32)

A

high pressure relief valve

is located on the

compressor

cylinder head, which is at the rear of the compressor.