



ENGINEERING
TOMORROW



REFRIGERATION RESEARCH, INC.

Blue Diamond
Pumps Inc

Temprite

Westermeyer
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WATTS

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TXV



RS Series

R SERIES

- Small brass body
- Replaceable thermostatic element with gray epoxy coating
- Balanced port construction
- 100 mesh inlet strainer integral to fitting
- Option for 15% bleed port (Other bleed port rates available with OEM version only)

- Overall height: 3.53"

RS SERIES

- Connection: male flare 90° inlet x male flare out
- Refrigerant: R404A, R408A, R507



		Connection (In.)				
Part No.	Tons	Inlet	Outlet	Thermostatic Charge	Equalizer	Price
RS-1/4C*	1/4	1/4	1/2	C	Internal	\$180.74
RS-1/4ZP*	1/4	1/4	1/2	ZP	Internal	\$187.96
RS-1/2C*	1/2	3/8	1/2	C	Internal	\$187.96
RSE-1/2C*	1/2	3/8	1/2	C	1/4 SAE	\$206.74
RSE-1/2ZP*	1/2	1/4	1/2	ZP	1/4 SAE	\$198.78
RSE1C*	1	3/8	1/2	C	1/4 SAE	\$198.78
RSE1ZP*	1	3/8	1/2	ZP	1/4 SAE	\$198.78
RSE1-1/2C*	1 1/2	3/8	1/2	C	1/4 SAE	\$198.78
RSE1-1/2Z*	1 1/2	3/8	1/2	Z	1/4 SAE	\$198.78
RSE1-1/2ZP*	1 1/2	3/8	1/2	ZP	1/4 SAE	\$184.94
RSE2C*	2	3/8	1/2	C	1/4 SAE	\$198.78
RSE2ZP*	2	3/8	1/2	ZP	1/4 SAE	\$198.78

RV SERIES

- Connection: male flare 90° inlet x male flare out
- Refrigerant: R22, R407C, R422D



		Connection (In.)				
Part No.	Tons	Inlet	Outlet	Thermostatic Charge	Equalizer	Price
RVE-1/2C*	1/2	3/8	1/2	C	1/4 SAE	\$198.78
RVE1C*	1	1/4	1/2	C	1/4 SAE	\$198.78
RVE1-1/2C*	1 1/2	3/8	1/2	C	1/4 SAE	\$198.78
RVE2C*	2	3/8	1/2	C	1/4 SAE	\$198.78
RVE3C*	3	3/8	1/2	C	1/4 SAE	\$198.78



Air Conditioning, Heat Pump
GA, CP60, CP100

Refrigeration

C: +50°F to -10°F

Z, ZP, ZP40: 0°F to -40°F

X: -40°F to -100°F

L = Liquid

L2 = Desuperheating

"P" limits pressure at refrigerant standard or noted value for system protection

RJ SERIES

- Connection: male flare 90° inlet x male flare out
- Refrigerant: R134a, R401A, R409A



		Connection (In.)				
Part No.	Tons	Inlet	Outlet	Thermostatic Charge	Equalizer	Price
RJ-1/4C*	1/4	1/4	1/2	C	Internal	\$180.74
RJ-1/2C-1/4*	1/2	1/4	1/2	C	Internal	\$180.74
RJ1C*	1	3/8	1/2	C	Internal	\$180.74
RJE-1/4C*	1/4	1/4	1/2	C	1/4 SAE	\$206.74
RJE-1/2C*	1/2	3/8	1/2	C	1/4 SAE	\$198.78
RJE1C*	1	3/8	1/2	C	1/4 SAE	\$198.78
RJE1-1/2C*	1 1/2	3/8	1/2	C	1/4 SAE	\$187.96
RJE2C*	2	3/8	1/2	C	1/4 SAE	\$206.74



ERVE

ER SERIES

- Small brass body
- Replaceable thermostatic element with gray epoxy coating
- Inlet strainer available
- Option for 15% bleed port (other bleed port rates available with OEM version only)
- Overall height: 3.53"

ERSE SERIES

- Connection: ODF inlet x ODF outlet
- Refrigerant: R404A, R408A, R507



		Connection (In.)				
Part No.	Tons	Inlet	Outlet	Thermostatic Charge	Equalizer	Price
ERSE1/2C*	1/2	1/4	1/2	C	1/4 ODF	\$195.22

ERV SERIES

- Connection: ODF inlet x ODF outlet
- Refrigerant: R22, R407C, R422D



		Connection (In.)				
Part No.	Tons	Inlet	Outlet	Thermostatic Charge	Equalizer	Price
ERVE3C*	3	3/8	1/2	C	1/4 ODF	\$203.06
ERVE3GA*	3	3/8	1/2	GA	1/4 ODF	\$203.06
ERVE4C*	4	1/2	7/8	C	1/4 ODF	\$203.06
ERVE4GA*	4	1/2	7/8	GA	1/4 ODF	\$203.06
ERVE5C*	5	1/2	7/8	C	1/4 ODF	\$203.06
ERVE5CP100*	5	1/2	7/8	CP100	1/4 ODF	\$203.06
ERVE5GA*	5	1/2	7/8	GA	1/4 ODF	\$195.22
ERVE6GA*	6	1/2	5/8	GA	1/4 ODF	\$203.06
ERVE8C*	8	5/8	7/8	C	1/4 ODF	\$314.12
ERVE8CP100*	8	5/8	7/8	CP100	1/4 ODF	\$306.32
ERVE8GA*	8	5/8	7/8	GA	1/4 ODF	\$306.32

*WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov



SRSE-1/2C

SR SERIES

- Small brass body
- Replaceable thermostatic element with gray epoxy coating
- Externally adjustable
- Balanced port construction
- Internally and externally equalized versions available

- Available with extended ODF fitting
- 100 mesh removable strainer, can be cleaned or replaced without removing the valve from the system
- Option for 15% bleed port (Other bleed port rates available with OEM version only)
- Overall height: 3.53"

SRS SERIES

- Connection: ODF inlet x ODF outlet
- Refrigerant: R404A, R408A, R507



		Connection (In.)				
Part No.	Tons	Inlet	Outlet	Thermostatic Charge	Equalizer	Price
SRSE-1/2C*	1/2	3/8	1/2	C	1/4 ODF	\$259.10
SRSE1C*	1	3/8	1/2	C	1/4 ODF	\$259.10
SRSE1Z*	1	3/8	1/2	Z	1/4 ODF	\$259.10
SRSE1ZP*	1	3/8	1/2	ZP	1/4 ODF	\$259.10
SRSE1-1/2C*	1 1/2	3/8	1/2	C	1/4 ODF	\$259.10
SRSE1-1/2ZP*	1 1/2	3/8	1/2	ZP	1/4 ODF	\$269.46
SRSE2C*	2	3/8	1/2	C	1/4 ODF	\$259.10
SRSE2ZP*	2	3/8	1/2	ZP	1/4 ODF	\$269.46
SRSE3C*	3	3/8	1/2	C	1/4 ODF	\$259.10

SRV SERIES

- Connection: ODF inlet x ODF outlet
- Refrigerant: R22, R407C, R422D



		Connection (In.)				
Part No.	Tons	Inlet	Outlet	Thermostatic Charge	Equalizer	Price
SRVE1C*	1	3/8	1/2	C	1/4 ODF	\$259.10
SRVE2C*	2	3/8	1/2	C	1/4 ODF	\$259.10



Air Conditioning, Heat Pump
GA, CP60, CP100

Refrigeration

C: +50°F to -10°F

Z, ZP, ZP40: 0°F to -40°F

X: -40°F to -100°F

L = Liquid

L2 = Desuperheating

"P" limits pressure at refrigerant standard or noted value for system protection

SEE LIVE INVENTORY AT ALL OF OUR BRANCHES NATIONWIDE ON

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with the check stock feature

Find Out How

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TXV

F, EF SERIES

Sporlan type F with SAE flare and EF with ODF solder connections are small brass bar body valves with identical internal construction and replaceable thermostatic elements. These valves have a removable 100 mesh strainer as a standard feature. These valves are designed for small refrigeration systems such as refrigerated cases, coolers, and freezers where space is limited and an external adjustment is desired.

- Overall height: 3.76"
- Element size: 43
- Capillary length: 30"



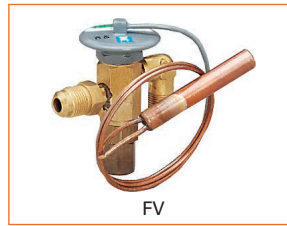
FJ-14C

FJ SERIES

- Connection: male flare 90° inlet x male flare outlet
- Use with refrigerants R134a, R401A, R409A, R12



		Connection (In.)		Thermostatic Charge	Equalizer	Price
Part No.	Tons	Inlet	Outlet			
FJ-1/8C*	1/8	1/4	1/2	C	Internal	\$232.90
FJ-1/8Z*	1/8	1/4	1/2	Z	Internal	\$465.80
FJ-1/8ZP*	1/8	1/4	1/2	ZP	Internal	\$465.80
FJ-1/4C*	1/4	1/4	1/2	C	Internal	\$211.74
FJ-1/4C-3/8*	1/4	1/4	3/8	C	Internal	\$211.74
FJ-1/4Z*	1/4	1/4	1/2	Z	Internal	\$232.90
FJ-1/4ZP*	1/4	1/4	1/2	ZP	Internal	\$232.90
FJ-1/2C*	1/2	3/8	1/2	C	Internal	\$232.90
FJ-1/2C-1/4*	1/2	1/4	1/2	C	Internal	\$211.74
FJ-1/2C-3/8*	1/2	3/8	1/2	C	Internal	\$211.74
FJ-1/2ZP*	1/2	3/8	1/2	ZP	Internal	\$232.90
FJ1C*	1	3/8	1/2	C	Internal	\$232.90
FJ1ZP*	1	3/8	1/2	ZP	Internal	\$465.80
FJE-1/8C*	1/8	1/4	1/2	C	1/4 SAE	\$512.40
FJE-1/8Z*	1/8	1/4	1/2	Z	1/4 SAE	\$512.40
FJE-1/4C*	1/4	1/4	1/2	C	1/4 SAE	\$256.20
FJE-1/4Z*	1/4	1/4	1/2	Z	1/4 SAE	\$512.40
FJE-1/2C*	1/2	1/4	1/2	C	1/4 SAE	\$512.40
FJE-1/2Z*	1/2	1/4	1/2	Z	1/4 SAE	\$512.40
FJE-1/2ZP*	1/2	1/4	1/2	ZP	1/4 SAE	\$256.20
FJE1/2C*	1/2	1/4	1/2	C	1/4 SAE	\$232.90
FJE1C*	1	3/8	1/2	C	1/4 SAE	\$232.90
FJE1Z*	1	3/8	1/2	Z	1/4 SAE	\$512.40
FJE1ZP*	1	3/8	1/2	ZP	1/4 SAE	\$256.20
FJE1-1/2C*	1 1/2	3/8	1/2	C	1/4 SAE	\$256.20
FJE1-1/2Z*	1 1/2	3/8	1/2	Z	1/4 SAE	\$512.40
FJE1-1/2ZP*	1 1/2	3/8	1/2	ZP	1/4 SAE	\$512.40
FJE2C*	2	3/8	1/2	C	1/4 SAE	\$512.40
FJE2Z*	2	3/8	1/2	Z	1/4 SAE	\$512.40
FJE2ZP*	2	3/8	1/2	ZP	1/4 SAE	\$512.40
FJE3C*	3	3/8	1/2	C	1/4 SAE	\$512.40



FV

FV SERIES

- Connection: male flare 90° inlet x male flare outlet
- Use with refrigerants R22, R407A, R407C



		Connection (In.)		Thermostatic Charge	Equalizer	Price
Part No.	Tons	Inlet	Outlet			
FV-1/4C*	1/4	1/4	1/2	C	Internal	\$211.74
FV-1/4ZP*	1/4	1/4	1/2	ZP	Internal	\$232.90
FV-1/4ZP40*	1/4	1/4	1/2	ZP40	Internal	\$232.90
FV-1/2C*	1/2	1/4	1/2	C	Internal	\$211.74
FV-1/2C-3/8*	1/2	3/8	1/2	C	Internal	\$232.90
FV-1/2Z*	1/2	1/4	1/2	Z	Internal	\$232.90
FV-1/2ZP40*	1/2	1/4	1/2	ZP40	Internal	\$232.90
FV1C*	1	1/4	1/2	C	Internal	\$232.90
FVE-1/4C*	1/4	1/4	1/2	C	1/4 SAE	\$256.20
FVE-1/2C*	1/2	3/8	1/2	C	1/4 SAE	\$232.90
FVE-1/2C-1/4*	1/2	1/4	1/2	C	1/4 SAE	\$232.90
FVE-1/2Z*	1/2	1/4	1/2	Z	1/4 SAE	\$256.20
FVE1C*	1	3/8	1/2	C	1/4 SAE	\$232.90
FVE1Z*	1	3/8	1/2	Z	1/4 SAE	\$256.20
FVE1-1/2C*	1 1/2	3/8	1/2	C	1/4 SAE	\$232.90
FVE1-1/2Z*	1 1/2	3/8	1/2	Z	1/4 SAE	\$256.20
FVE2C*	2	3/8	1/2	C	1/4 SAE	\$232.90
FVE2Z*	2	3/8	1/2	Z	1/4 SAE	\$256.20
FVE3C*	3	3/8	1/2	C	1/4 SAE	\$256.20
FVE3Z*	3	3/8	1/2	Z	1/4 SAE	\$256.20



FS-14C

FS SERIES

- Connection: male flare 90° inlet x male flare outlet
- Use with refrigerants R404A, R408A, R502



		Connection (In.)		Thermostatic Charge	Equalizer	Price
Part No.	Tons	Inlet	Outlet			
FS-1/8C*	1/8	1/4	1/2	C	Internal	\$232.90
FS-1/8ZP*	1/8	1/4	1/2	ZP	Internal	\$232.90
FS-1/4C*	1/4	1/4	1/2	C	Internal	\$211.74
FS-1/4Z*	1/4	1/4	1/2	Z	Internal	\$211.74
FS-1/4ZP*	1/4	1/4	1/2	ZP	Internal	\$211.74
FS-1/2C*	1/2	1/4	1/2	C	Internal	\$211.74
FS-1/2Z*	1/2	1/4	1/2	Z	Internal	\$211.74
FS-1/2ZP*	1/2	1/4	1/2	ZP	Internal	\$232.90
FS1C*	1	3/8	1/2	C	Internal	\$232.90
FS1Z*	1	3/8	1/2	Z	Internal	\$232.90
FS1ZP*	1	3/8	1/2	ZP	Internal	\$232.90
FSE-1/4ZP*	1/4	1/4	1/2	ZP	1/4 SAE	\$256.20
FSE-1/2C*	1/2	1/4	1/2	C	1/4 SAE	\$232.90

Continued...

*WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

FS SERIES (CONT'D.)



Part No.	Tons	Connection (In.)		Thermostatic Charge	Equalizer	Price
		Inlet	Outlet			
FSE-1/2Z*	1/2	1/4	1/2	Z	1/4 SAE	\$256.20
FSE-1/2ZP*	1/4	1/4	1/2	ZP	1/4 SAE	\$232.90
FSE1C*	1	3/8	1/2	C	1/4 SAE	\$232.90
FSE1Z*	1	3/8	1/2	Z	1/4 SAE	\$256.20
FSE1ZP*	1	3/8	1/2	ZP	1/4 SAE	\$232.90
FSE1-1/2C*	1 1/2	3/8	1/2	C	1/4 SAE	\$256.20
FSE1-1/2Z*	1 1/2	3/8	1/2	Z	1/4 SAE	\$256.20
FSE1-1/2ZP*	1 1/2	3/8	1/2	ZP	1/4 SAE	\$232.90
FSE2C*	2	3/8	1/2	C	1/4 SAE	\$256.20
FSE2Z*	2	3/8	1/2	Z	1/4 SAE	\$256.20
FSE2ZP*	2	3/8	1/2	ZP	1/4 SAE	\$232.90



EFJ14C

EFJ SERIES

- Connection: ODF inlet x ODF outlet
- Use with refrigerants R134a, R401A, R409A, R12



Part No.	Tons	Connection (In.)		Thermostatic Charge	Equalizer	Price
		Inlet	Outlet			
EFJ1/8C*	1/8	1/4	1/2	C	Internal	\$364.00
EFJ1/4C*	1/2	1/4	1/2	C	Internal	\$182.00
EFJ1/4ZP*	1/4	1/4	1/2	ZP	Internal	\$364.00
EFJ1/2C*	1/2	1/4	1/2	C	Internal	\$182.00
EFJ1C*	1	3/8	1/2	C	Internal	\$200.22
EFJ1CP60*	1	3/8	1/2	CP60	Internal	\$364.00
EFJE-1/8C*	1/8	1/4	1/2	C	1/4 ODF	\$248.30
EFJE1/4C*	1/4	1/4	1/2	C	1/4 ODF	\$220.26
EFJE1/2C*	1/2	1/4	1/2	C	1/4 ODF	\$200.26
EFJE1/2CP60*	1/2	1/4	1/2	CP60	1/4 ODF	\$496.60
EFJE1/2ZP*	1/2	1/4	1/2	ZP	1/4 ODF	\$496.60
EFJE1C*	1	3/8	1/2	C	1/4 ODF	\$200.26
EFJE1CP60*	1	3/8	1/2	CP60	1/4 ODF	\$496.60
EFJE1ZP*	1	3/8	1/2	ZP	1/4 ODF	\$496.60
EFJE1-1/2C*	1 1/2	3/8	1/2	C	1/4 ODF	\$220.26
EFJE1-1/2CP60*	1 1/2	3/8	1/2	CP60	1/4 ODF	\$496.60
EFJE1-1/2ZP*	1 1/2	3/8	1/2	ZP	1/4 ODF	\$496.60
EFJE2C*	2	3/8	1/2	C	1/4 ODF	\$496.60
EFJE2CP60*	2	3/8	1/2	CP60	1/4 ODF	\$496.60
EFJE2ZP*	2	3/8	1/2	ZP	1/4 ODF	\$496.60
EFJE3C*	3	3/8	1/2	C	1/4 ODF	\$496.60
EFJE3CP60*	3	3/8	1/2	CP60	1/4 ODF	\$496.60



EFV14C

EFV SERIES

- Connection: ODF inlet x ODF outlet
- Use with refrigerants R22, R407A, R407C



Part No.	Tons	Connection (In.)		Thermostatic Charge	Equalizer	Price
		Inlet	Outlet			
EFV1/5Z*	1/5	1/4	1/2	Z	Internal	\$200.22
EFV1/4C*	1/4	1/4	1/2	C	Internal	\$182.00
EFV1/4ZP*	1/4	1/4	1/2	ZP	Internal	\$200.22
EFV1/4ZP40*	1/4	1/4	1/2	ZP40	Internal	\$200.22
EFV1/2C-1/4*	1/2	1/4	1/2	C	Internal	\$182.00
EFV1/2C-3/8*	1/2	3/8	1/2	C	Internal	\$200.22
EFV1C*	1	1/4	1/2	C	Internal	\$200.22
EFVE1/5Z*	1/5	1/4	1/2	Z	External	\$220.26
EFVE1/4C*	1/4	1/4	3/8	C	1/4 ODF	\$220.26
EFVE1/4C1/2*	1/4	1/4	1/2	C	1/4 ODF	\$220.26
EFVE1/2C*	1/2	1/4	1/2	C	1/4 ODF	\$200.26
EFVE1/2C3/8*	1/2	3/8	1/2	C	1/4 ODF	\$200.26
EFVE1C*	1	1/4	1/2	C	1/4 ODF	\$200.26
EFVE1Z*	1	1/4	1/2	Z	1/4 ODF	\$220.26
EFVE1-1/2C*	1 1/2	3/8	1/2	C	1/4 ODF	\$200.26
EFVE11/2Z*	1 1/2	3/8	1/2	Z	1/4 ODF	\$220.26
EFVE1-1/2ZP*	1 1/2	3/8	1/2	ZP	1/4 ODF	\$220.26
EFVE2C*	2	3/8	1/2	C	1/4 ODF	\$200.26
EFVE3C*	3	3/8	1/2	C	1/4 ODF	\$220.26
EFVE3Z*	3	3/8	1/2	Z	1/4 ODF	\$220.26



Air Conditioning, Heat Pump

GA, CP60, CP100

Refrigeration

C: +50°F to -10°F

Z, ZP, ZP40: 0°F to -40°F

X: -40°F to -100°F

L = Liquid

L2 = Desuperheating

"P" limits pressure at refrigerant standard or noted value for system protection

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TXV

EFS SERIES

- Connection: ODF inlet x ODF outlet
- Use with refrigerants R404A, R408A, R502



EFS14C



		Connection (In.)		Thermostatic Charge	Equalizer	Price
Part No.	Tons	Inlet	Outlet			
EFS1/8C*	1/8	1/4	3/8	C	Internal	\$200.22
EFS-1/8ZP*	1/8	1/4	3/8	ZP	Internal	\$200.22
EFS1/4C*	1/4	1/4	1/2	C	Internal	\$182.00
EFS1/4Z*	1/4	1/4	1/2	Z	Internal	\$200.22
EFS1/4ZP*	1/4	1/4	1/2	ZP	Internal	\$200.22
EFS1/2C*	1/2	1/4	1/2	C	Internal	\$200.22
EFS1/2Z*	1/2	1/4	1/2	Z	Internal	\$200.22
EFS1/2ZP*	1/2	1/4	1/2	ZP	Internal	\$200.22
EFS1C*	1	3/8	1/2	C	Internal	\$200.22
EFS1Z*	1	3/8	1/2	Z	Internal	\$200.22
EFS1ZP*	1	3/8	1/2	ZP	Internal	\$200.22
EFSE1/4Z*	1/4	1/4	1/2	Z	1/4 ODF	\$220.26
EFSE1/4C*	1/4	1/4	1/2	C	1/4 ODF	\$200.26
EFSE1/4ZP*	1/4	1/4	1/2	ZP	1/4 ODF	\$220.26
EFSE1/2C*	1/2	1/4	1/2	C	1/4 ODF	\$200.26
EFSE1/2Z*	1/2	1/4	1/2	Z	1/4 ODF	\$220.26
EFSE1/2ZP*	1/2	1/4	1/2	ZP	1/4 ODF	\$200.26
EFSE1C*	1	3/8	1/2	C	1/4 ODF	\$220.26
EFSE1Z*	1	3/8	1/2	Z	1/4 ODF	\$220.26
EFSE1ZP*	1	3/8	1/2	ZP	1/4 ODF	\$200.26
EFSE1-1/2C*	1 1/2	3/8	1/2	C	1/4 ODF	\$220.26
EFSE1-1/2ZP*	1 1/2	3/8	1/2	ZP	1/4 ODF	\$220.26
EFSE2C*	2	3/8	1/2	C	1/4 ODF	\$220.26
EFSE2Z*	2	3/8	1/2	Z	1/4 ODF	\$220.26
EFSE2ZP*	2	3/8	1/2	ZP	1/4 ODF	\$220.26

TYPE "G"

Sporlan type G valves are forged brass body, externally adjustable valves with SAE flare connections. The thermostatic element is replaceable and the inlet connection has a removable 100 mesh strainer. This valve is designed for small refrigeration systems such as refrigerated cases, coolers, and freezers. In addition to refrigeration applications, the externally equalized type G valves may be used for small capacity air conditioning and heat pump units.

- Capillary length: 5'
- Overall height: 4.62" internal equalized, 4.74" external equalized
- Connection: male flare 90° inlet x male flare out
- Element size: 53



GJ-12C-38

GJ SERIES

- Use with refrigerants R134a, R401A, R409A, R12



		Connection (In.)		Thermostatic Charge	Equalizer	Price
Part No.	Tons	Inlet	Outlet			
GJ-1/8C*	1/8	3/8	1/2	C	Internal	\$916.00
GJ-1/4C*	1/4	1/4	1/2	C	Internal	\$916.00
GJ-1/2C-1/4*	1/2	1/4	1/2	C	Internal	\$458.00
GJ-1/2C-3/8*	1/2	3/8	1/2	C	Internal	\$458.00
GJ-1/2ZP*	1/2	3/8	1/2	ZP	Internal	\$916.00
GJ1C*	1	3/8	1/2	C	Internal	\$458.00
GJ1CP60*	1	3/8	1/2	CP60	Internal	\$916.00
GJ1Z*	1	3/8	1/2	Z	Internal	\$916.00
GJ1-1/2C*	1 1/2	3/8	1/2	C	Internal	\$916.00
GJ1-1/2Z*	1 1/2	3/8	1/2	Z	Internal	\$916.00
GJE-1/4C*	1/4	1/4	1/2	C	1/4 SAE	\$1,041.56
GJE-1/4Z*	1/4	1/4	1/2	Z	1/4 SAE	\$1,041.56
GJE-1/4ZP*	1/4	1/4	1/2	ZP	1/4 SAE	\$1,041.56
GJE-1/2C*	1/2	3/8	1/2	C	1/4 SAE	\$520.78
GJE-1/2CP60*	1/2	3/8	1/2	CP60	1/4 SAE	\$1,041.56
GJE-1/2Z*	1/2	3/8	1/2	Z	1/4 SAE	\$1,041.56
GJE-1/2ZP*	1/2	3/8	1/2	ZP	1/4 SAE	\$520.78
GJE1C*	1	3/8	1/2	C	1/4 SAE	\$520.78
GJE1CP60*	1	3/8	1/2	CP60	1/4 SAE	\$1,041.56
GJE1Z*	1	3/8	1/2	Z	1/4 SAE	\$1,041.56
GJE1-1/2C*	1 1/2	3/8	1/2	C	1/4 SAE	\$520.78
GJE1-1/2CP60*	1 1/2	3/8	1/2	CP60	1/4 SAE	\$1,041.56
GJE1-1/2Z*	1 1/2	3/8	1/2	Z	1/4 SAE	\$1,041.56
GJE2C*	2	3/8	1/2	C	1/4 SAE	\$520.78
GJE2CP60*	2	3/8	1/2	CP60	1/4 SAE	\$1,041.56
GJE2Z*	2	3/8	1/2	Z	1/4 SAE	\$1,041.56



Air Conditioning, Heat Pump

GA, CP60, CP100

Refrigeration

C: +50°F to -10°F

Z, ZP, ZP40: 0°F to -40°F

X: -40°F to -100°F

L = Liquid

L2 = Desuperheating

"P" limits pressure at refrigerant standard or noted value for system protection

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GVE3C

GV SERIES

- Use with refrigerants R22, R407A, R407C



GS-12Z

GS SERIES

- Use with refrigerants R404A, R408A, R502



Part No.	Tons	Connection (In.)		Thermostatic Charge	Equalizer	Price
		Inlet	Outlet			
GV-1/4C*	1/4	1/4	1/2	C	Internal	\$458.00
GV-1/2C*	1/2	3/8	1/2	C	Internal	\$458.00
GV-1/2Z*	1/2	3/8	1/2	Z	Internal	\$458.00
GV-1/2ZP*	1/2	3/8	1/2	ZP	Internal	\$458.00
GV1C*	1	3/8	1/2	C	Internal	\$458.00
GV1Z*	1	3/8	1/2	Z	Internal	\$458.00
GV1-1/2C*	1 1/2	3/8	1/2	C	Internal	\$458.00
GV1-1/2Z*	1 1/2	3/8	1/2	Z	Internal	\$458.00
GV1-1/2ZP*	1 1/2	3/8	1/2	ZP	Internal	\$458.00
GV1-1/2ZP40*	1 1/2	3/8	1/2	ZP40	Internal	\$457.98
GV-2-1/2C*	2 1/2	3/8	1/2	C	Internal	\$458.00
GVE-1/2C*	1/2	3/8	1/2	C	1/4 SAE	\$520.78
GVE-1/2Z*	1/2	3/8	1/2	Z	1/4 SAE	\$520.78
GVE-1/2ZP40*	1/2	3/8	1/2	ZP40	1/4 SAE	\$520.78
GVE1GA*	1	3/8	1/2	GA	1/4 SAE	\$520.78
GVE1CP100*	1	3/8	1/2	CP100	1/4 SAE	\$520.78
GVE1C*	1	3/8	1/2	C	1/4 SAE	\$520.78
GVE1Z*	1	3/8	1/2	Z	1/4 SAE	\$520.78
GVE1ZP*	1	3/8	1/2	ZP	1/4 SAE	\$520.78
GVE1ZP40*	1	3/8	1/2	ZP40	1/4 SAE	\$520.78
GVE1-1/2GA*	1 1/2	3/8	1/2	GA	1/4 SAE	\$520.78
GVE1-1/2C*	1 1/2	3/8	1/2	C	1/4 SAE	\$520.78
GVE1-1/2Z*	1 1/2	3/8	1/2	Z	1/4 SAE	\$520.78
GVE1-1/2ZP40*	1 1/2	3/8	1/2	ZP40	1/4 SAE	\$520.78
GVE2GA*	2	3/8	1/2	GA	1/4 SAE	\$520.78
GVE2CP100*	2	3/8	1/2	CP100	1/4 SAE	\$520.78
GVE2C*	2	3/8	1/2	C	1/4 SAE	\$520.78
GVE2Z*	2	3/8	1/2	Z	1/4 SAE	\$520.78
GVE2ZP40*	2	3/8	1/2	ZP40	1/4 SAE	\$520.78
GVE3GA*	3	3/8	1/2	GA	1/4 SAE	\$520.78
GVE3CP100*	3	3/8	1/2	CP100	1/4 SAE	\$520.78
GVE3C*	3	3/8	1/2	C	1/4 SAE	\$520.78
GVE3ZP*	3	3/8	1/2	ZP	1/4 SAE	\$520.78
GVE3ZP40*	3	3/8	1/2	ZP40	1/4 SAE	\$520.78

Part No.	Tons	Connection (In.)		Thermostatic Charge	Equalizer	Price
		Inlet	Outlet			
GS-1/4C*	1/4	1/4	1/2	C	Internal	\$458.00
GS-1/4Z*	1/4	1/4	1/2	Z	Internal	\$458.00
GS-1/4ZP*	1/4	1/4	1/2	ZP	Internal	\$458.00
GS-1/2C*	1/2	3/8	1/2	C	Internal	\$458.00
GS-1/2Z*	1/2	3/8	1/2	Z	Internal	\$458.00
GS-1/2ZP*	1/2	3/8	1/2	ZP	Internal	\$458.00
GS1C*	1	3/8	1/2	C	Internal	\$458.00
GS1Z*	1	3/8	1/2	Z	Internal	\$458.00
GS1ZP*	1	3/8	1/2	ZP	Internal	\$458.00
GSE-1/2C*	1/2	3/8	1/2	C	1/4 SAE	\$520.78
GSE-1/2Z*	1/2	3/8	1/2	Z	1/4 SAE	\$520.78
GSE-1/2ZP*	1/2	3/8	1/2	ZP	1/4 SAE	\$520.78
GSE1C*	1	3/8	1/2	C	1/4 SAE	\$520.78
GSE1Z*	1	3/8	1/2	Z	1/4 SAE	\$520.78
GSE1ZP*	1	3/8	1/2	ZP	1/4 SAE	\$520.78
GSE1-1/2C*	1 1/2	3/8	1/2	C	1/4 SAE	\$520.78
GSE1-1/2Z*	1 1/2	3/8	1/2	Z	1/4 SAE	\$520.78
GSE1-1/2ZP*	1 1/2	3/8	1/2	ZP	1/4 SAE	\$520.78
GSE2C*	2	3/8	1/2	C	1/4 SAE	\$520.78
GSE2Z*	2	3/8	1/2	Z	1/4 SAE	\$520.78



Air Conditioning, Heat Pump

GA, CP60, CP100

Refrigeration

C: +50°F to -10°F

Z, ZP, ZP40: 0°F to -40°F

X: -40°F to -100°F

L = Liquid

L2 = Desuperheating

"P" limits pressure at refrigerant standard or noted value for system protection

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VALVES

TXV

TYPE "C"

Sporlan type C valve is a forged brass body, externally adjustable valve with SAE flare connections. The thermostatic element is replaceable and the inlet connection has a removable 80 mesh strainer. This valve is designed for small refrigeration systems such as refrigerated cases, coolers, and freezers. In addition to refrigeration applications, the externally equalized type C valve may be used for small capacity air conditioning and heat pump units.

- Capillary length: 5'
- Overall height: 5.18"
- Element size: 83
- Connection: male flare 90° inlet x male flare out



CJE5C

CJ SERIES

- Use with refrigerants R134a, R401A, R409A, R12



		Connection (In.)				
Part No.	Tons	Inlet	Outlet	Thermostatic Charge	Equalizer	Price
CJ2C*	2	3/8	1/2	C	Internal	\$1,332.44
CJE1CP60*	1	3/8	1/2	CP60	1/4 SAE	\$1,332.44
CJE2-1/2C*	2 1/2	3/8	1/2	C	1/4 SAE	\$666.22
CJE2-1/2CP60*	2 1/2	3/8	1/2	CP60	1/4 SAE	\$1,332.44
CJE2-1/2Z*	2 1/2	3/8	1/2	Z	1/4 SAE	\$1,332.44
CJE2CP60*	2	3/8	1/2	CP60	1/4 SAE	\$1,332.44
CJE3C*	3	3/8	1/2	C	1/4 SAE	\$666.22
CJE3CP60*	3	3/8	1/2	CP60	1/4 SAE	\$1,332.44
CJE3Z*	3	3/8	1/2	Z	1/4 SAE	\$1,332.44
CJE3ZP*	3	3/8	1/2	ZP	1/4 SAE	\$1,332.44
CJE5C*	5	1/2	5/8	C	1/4 SAE	\$666.22
CJE5CP60*	5	1/2	5/8	CP60	1/4 SAE	\$1,332.44
CJE5Z*	5	1/2	5/8	Z	1/4 SAE	\$1,332.44
CJE5ZP*	5	1/2	5/8	ZP	1/4 SAE	\$1,332.44



CSE3Z

CS SERIES

- Use with refrigerants R404A, R408A, R502



		Connection (In.)				
Part No.	Tons	Inlet	Outlet	Thermostatic Charge	Equalizer	Price
CSE3ZP*	3	3/8	1/2	ZP	1/4 SAE	\$666.22
CSE4C*	4	3/8	1/2	C	1/4 SAE	\$666.22
CSE4ZP*	4	3/8	1/2	ZP	1/4 SAE	\$666.22
CSE6C*	6	1/2	5/8	C	1/4 SAE	\$666.22

TYPE "EG"

Sporlan type EG valve is a forged brass body, externally adjustable valve with ODF solder connections. The thermostatic element is replaceable and the inlet connection has a removable 100 mesh strainer which can be cleaned and/or replaced without removing the valve from the line. This valve is designed for small refrigeration systems such as refrigerated cases, coolers, and freezers. In addition to refrigeration applications, the externally equalized type EG valve may be used for small capacity air conditioning and heat pump units.

- Capillary length: 5'
- Overall height: 4.72"
- Connection: ODF 90° inlet x ODF outlet
- Element size: 53



EGJE1-12C

EGJ SERIES

- Use with refrigerants R134a, R401A, R409A, R12



		Connection (In.)				
Part No.	Tons	Inlet	Outlet	Thermostatic Charge	Equalizer	Price
EGJE-1/8C*	1/8	3/8	1/2	C	1/4 ODF	\$801.76
EGJE-1/4C*	1/4	3/8	1/2	C	1/4 ODF	\$801.76
EGJE-1/2C*	1/2	3/8	1/2	C	1/4 ODF	\$400.88
EGJE-1/2CP60*	1/2	3/8	1/2	CP60	1/4 ODF	\$801.76
EGJE-1/2ZP*	1/2	3/8	1/2	ZP	1/4 ODF	\$801.76
EGJE1C*	1	3/8	1/2	C	1/4 ODF	\$400.88
EGJE1CP60*	1	3/8	1/2	CP60	1/4 ODF	\$801.76
EGJE1Z*	1	3/8	1/2	Z	1/4 ODF	\$801.76
EGJE1-1/2C*	1 1/2	3/8	1/2	C	1/4 ODF	\$400.88
EGJE1-1/2CP60*	1 1/2	3/8	1/2	CP60	1/4 ODF	\$801.76
EGJE2C*	2	3/8	1/2	C	1/4 ODF	\$400.88
EGJE2ZP*	2	3/8	1/2	ZP	1/4 ODF	\$801.76
EGJ1/8C*	1/8	3/8	1/2	C	Internal	\$704.72
EGJ1/4C*	1/4	3/8	1/2	C	Internal	\$704.72
EGJ1/2C*	1/2	3/8	1/2	C	Internal	\$704.72
EGJ1-1/2C*	1 1/2	3/8	1/2	C	Internal	\$704.72



Air Conditioning, Heat Pump

GA, CP60, CP100

Refrigeration

C: +50°F to -10°F

Z, ZP, ZP40: 0°F to -40°F

X: -40°F to -100°F

L = Liquid

L2 = Desuperheating

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EGV1C

EGV SERIES

- Use with refrigerants R22, R407A, R407C



EGS-12C

EGS SERIES

- Use with refrigerants R404A, R408A, R502



Part No.	Tons	Connection (In.)		Thermostatic Charge	Equalizer	Price
		Inlet	Outlet			
EGV1/5C*	1/5	3/8	1/2	C	Internal	\$352.36
EGV-1/3Z*	1/3	3/8	1/2	Z	Internal	\$352.36
EGV-1/2C*	1/2	3/8	1/2	C	Internal	\$352.36
EGV-1/2Z*	1/2	3/8	1/2	Z	Internal	\$352.36
EGV-1/2ZP*	1/2	3/8	1/2	ZP	Internal	\$352.36
EGV-3/4Z*	3/4	3/8	1/2	Z	Internal	\$352.36
EGVE-1/5C*	1/5	3/8	1/2	C	1/4 ODF	\$400.88
EGVE-1/4C*	1/4	3/8	1/2	C	1/4 ODF	\$400.88
EGVE-1/3C*	1/3	3/8	1/2	C	1/4 ODF	\$400.88
EGVE-1/3ZP40*	1/3	3/8	1/2	ZP40	1/4 ODF	\$400.88
EGVE-1/2C*	1/2	3/8	1/2	C	1/4 ODF	\$298.36
EGVE-1/2Z*	1/2	3/8	1/2	Z	1/4 ODF	\$400.88
EGVE-1/2ZP*	1/2	3/8	1/2	ZP	1/4 ODF	\$400.88
EGVE-1/2ZP40*	1/2	3/8	1/2	ZP40	1/4 ODF	\$400.88
EGVE-3/4C*	3/4	3/8	1/2	C	1/4 ODF	\$298.36
EGVE-3/4Z*	3/4	3/8	1/2	Z	1/4 ODF	\$400.88
EGVE-3/4ZP*	3/4	3/8	1/2	ZP	1/4 ODF	\$400.88
EGVE-3/4ZP40*	3/4	3/8	1/2	ZP40	1/4 ODF	\$400.88
EGVE1C*	1	3/8	1/2	C	1/4 ODF	\$298.36
EGVE1Z*	1	3/8	1/2	Z	1/4 ODF	\$298.36
EGVE1ZP*	1	3/8	1/2	ZP	1/4 ODF	\$400.88
EGVE1ZP40*	1	3/8	1/2	ZP40	1/4 ODF	\$400.88
EGVE1-1/2C*	1 1/2	3/8	1/2	C	1/4 ODF	\$298.36
EGVE1-1/2Z*	1 1/2	3/8	1/2	Z	1/4 ODF	\$400.88
EGVE1-1/2ZP*	1 1/2	3/8	1/2	ZP	1/4 ODF	\$400.88
EGVE11/2ZP40*	1 1/2	3/8	1/2	ZP40	1/4 ODF	\$400.88
EGVE2C*	2	3/8	1/2	C	1/4 ODF	\$298.36
EGVE2Z*	2	3/8	1/2	Z	1/4 ODF	\$400.88
EGVE2ZP*	2	3/8	1/2	ZP	1/4 ODF	\$400.88
EGVE2ZP40*	2	3/8	1/2	ZP40	1/4 ODF	\$400.88
EGVE3C*	3	3/8	1/2	C	1/4 ODF	\$400.88
EGVE3ZP*	3	3/8	1/2	ZP	1/4 ODF	\$400.88

Part No.	Tons	Connection (In.)		Thermostatic Charge	Equalizer	Price
		Inlet	Outlet			
EGS-1/4C*	1/4	3/8	1/2	C	Internal	\$352.36
EGS-1/4Z*	1/4	3/8	1/2	Z	Internal	\$352.36
EGS-1/4ZP*	1/4	3/8	1/2	ZP	Internal	\$352.36
EGS-1/2C*	1/2	3/8	1/2	C	Internal	\$352.36
EGS-1/2Z*	1/2	3/8	1/2	Z	Internal	\$352.36
EGS-1/2ZP*	1/2	3/8	1/2	ZP	Internal	\$352.36
EGS1Z*	1	3/8	1/2	Z	Internal	\$352.36
EGSE-1/4C*	1/4	3/8	1/2	C	1/4 ODF	\$400.88
EGSE-1/4Z*	1/4	3/8	1/2	Z	1/4 ODF	\$400.88
EGSE-1/4ZP*	1/4	3/8	1/2	ZP	1/4 ODF	\$400.88
EGSE-1/2C*	1/2	3/8	1/2	C	1/4 ODF	\$298.36
EGSE-1/2Z*	1/2	3/8	1/2	Z	1/4 ODF	\$400.88
EGSE-1/2ZP*	1/2	3/8	1/2	ZP	1/4 ODF	\$298.36
EGSE1C*	1	3/8	1/2	C	1/4 ODF	\$298.36
EGSE1Z*	1	3/8	1/2	Z	1/4 ODF	\$298.36
EGSE1ZP*	1	3/8	1/2	ZP	1/4 ODF	\$298.36
EGSE1-1/2C*	1 1/2	3/8	1/2	C	1/4 ODF	\$298.36
EGSE1-1/2Z*	1 1/2	3/8	1/2	Z	1/4 ODF	\$400.88
EGSE1-1/2ZP*	1 1/2	3/8	1/2	ZP	1/4 ODF	\$298.36
EGSE2C*	2	3/8	1/2	C	1/4 ODF	\$298.36
EGSE2Z*	2	3/8	1/2	Z	1/4 ODF	\$400.88
EGSE2ZP*	2	3/8	1/2	ZP	1/4 ODF	\$400.88



Air Conditioning, Heat Pump

GA, CP60, CP100

Refrigeration

C: +50°F to -10°F

Z, ZP, ZP40: 0°F to -40°F

X: -40°F to -100°F

L = Liquid

L2 = Desuperheating

"P" limits pressure at refrigerant standard or noted value for system protection

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VALVES

TXV

TYPE "S"

Sporlan type S valve is a brass bar body, externally adjustable valve with ODF solder connections. The thermostatic element is replaceable and the inlet connection has a permanent 12 mesh strainer. This valve is designed for both air conditioning and refrigeration applications.

- Capillary length: 5'
- Connection: ODF inlet x ODF outlet
- Overall height: 5.19"
- Element size: 83



SJE2C

SJ SERIES

- Use with refrigerants R134a, R401A, R409A, R12



		Connection (In.)				
Part No.	Tons	Inlet	Outlet	Thermostatic Charge	Equalizer	Price
SJ1/2C*	1/2	1/2	5/8	C	Internal	\$848.96
SJ2C*	2	1/2	5/8	C	Internal	\$848.96
SJ3C*	3	1/2	7/8	C	Internal	\$848.96
SJE1/4C*	1/4	1/2	5/8	C	1/4 ODF	\$848.96
SJE1/2C*	1/2	3/8	1/2	C	1/4 ODF	\$848.96
SJE1/2Z*	1/2	3/8	1/2	Z	1/4 ODF	\$848.96
SJE1-1/2C*	1 1/2	1/2	5/8	C	1/4 ODF	\$848.96
SJE1-1/2CP60*	1 1/2	1/2	5/8	CP60	1/4 ODF	\$848.96
SJE1-1/2Z*	1 1/2	1/2	5/8	Z	1/4 ODF	\$848.96
SJE1C*	1	1/2	5/8	C	1/4 ODF	\$848.96
SJE1CP60*	2 1/2	1/2	5/8	CP60	1/4 ODF	\$848.96
SJE2-1/2C*	2 1/2	1/2	7/8	C	1/4 ODF	\$848.96
SJE2-1/2CP60*	2 1/2	1/2	7/8	CP60	1/4 ODF	\$848.96
SJE2-1/2Z*	2 1/2	1/2	7/8	Z	1/4 ODF	\$848.96
SJE2C*	2	1/2	5/8	C	1/4 ODF	\$424.48
SJE3C*	3	5/8	7/8	C	1/4 ODF	\$424.48
SJE3CP60*	3	5/8	7/8	CP60	1/4 ODF	\$424.48
SJE5C*	5	5/8	7/8	C	1/4 ODF	\$424.48
SJE5CP60*	5	5/8	7/8	CP60	1/4 ODF	\$424.48
SJE6C*	6	7/8	1 1/8	C	1/4 ODF	\$424.48
SJE6CP60*	6	5/8	7/8	CP60	1/4 ODF	\$848.96
SJE10C*	10	5/8	7/8	C	1/4 ODF	\$848.96
SJE10CP60*	10	5/8	7/8	CP60	1/4 ODF	\$848.96

SV SERIES

- Use with refrigerants R22, R407A, R407C



SVE2C



		Connection (In.)				
Part No.	Tons	Inlet	Outlet	Thermostatic Charge	Equalizer	Price
SV1C* ¹	1	1/2	5/8	C	Internal	\$381.04
SVE-1/2C* ¹	1/2	1/2	5/8	C	1/4 ODF	\$424.48
SVE1C* ¹	1	1/2	5/8	C	1/4 ODF	\$424.48
SVE1CP100* ¹	1	1/2	5/8	CP100	1/4 ODF	\$424.48
SVE1-1/2C* ¹	1 1/2	1/2	5/8	C	1/4 ODF	\$424.48
SVE2GA* ¹	2	1/2	5/8	GA	1/4 ODF	\$424.48
SVE2CP100* ¹	2	1/2	5/8	CP100	1/4 ODF	\$424.48
SVE2C* ¹	2	1/2	5/8	C	1/4 ODF	\$424.48
SVE3GA* ¹	3	1/2	5/8	GA	1/4 ODF	\$424.48
SVE3CP100* ¹	3	1/2	5/8	CP100	1/4 ODF	\$424.48
SVE3C* ¹	3	1/2	5/8	C	1/4 ODF	\$313.00
SVE4GA* ¹	4	1/2	7/8	GA	1/4 ODF	\$424.48
SVE4CP100* ¹	4	1/2	7/8	CP100	1/4 ODF	\$424.48
SVE4C* ¹	4	1/2	7/8	C	1/4 ODF	\$313.00
SVE4Z* ¹	4	1/2	7/8	Z	1/4 ODF	\$424.48
SVE5GA* ¹	5	1/2	7/8	GA	1/4 ODF	\$424.48
SVE5CP100* ¹	5	1/2	7/8	CP100	1/4 ODF	\$313.00
SVE5C* ¹	15	1/2	7/8	C	1/4 ODF	\$313.00
SVE8GA* ¹	8	5/8	7/8	GA	1/4 ODF	\$313.00
SVE8CP100* ¹	8	5/8	7/8	CP100	1/4 ODF	\$424.48
SVE8C* ¹	8	5/8	7/8	C	1/4 ODF	\$424.48
SVE8Z* ¹	8	5/8	7/8	Z	1/4 ODF	\$424.48
SVE10GA* ¹	10	5/8	7/8	GA	1/4 ODF	\$424.48
SVE10CP100* ¹	10	5/8	7/8	CP100	1/4 ODF	\$424.48
SVE10C* ¹	10	5/8	7/8	C	1/4 ODF	\$313.00

¹5/8 M flare inlet and outle



Air Conditioning, Heat Pump

GA, CP60, CP100

Refrigeration

C: +50°F to -10°F

Z, ZP, ZP40: 0°F to -40°F

X: -40°F to -100°F

L = Liquid

L2 = Desuperheating

"P" limits pressure at refrigerant standard or noted value for system protection



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SS VALVE

- Use with refrigerants R404A, R408A, R502



Part No.	Tons	Connection (In.)		Thermostatic Charge	Equalizer	Price
		Inlet	Outlet			
SSE-1/2Z*	1/2	1/2	5/8	Z	1/4 ODF	\$424.48
SSE-1/2ZP*	1/2	1/2	5/8	ZP	1/4 ODF	\$424.48
SSE1Z*	1	1/2	5/8	Z	1/4 ODF	\$424.48
SSE1ZP*	1	1/2	5/8	ZP	1/4 ODF	\$424.48
SSE2C*	2	1/2	5/8	C	1/4 ODF	\$424.48
SSE2Z*	2	1/2	5/8	Z	1/4 ODF	\$424.48
SSE2ZP*	2	1/2	5/8	ZP	1/4 ODF	\$424.48
SSE3C*	3	1/2	7/8	C	1/4 ODF	\$313.00
SSE3Z*	3	1/2	7/8	Z	1/4 ODF	\$424.48
SSE3ZP*	3	1/2	7/8	ZP	1/4 ODF	\$313.00
SSE4C*	4	1/2	7/8	C	1/4 ODF	\$313.00
SSE4Z*	4	1/2	7/8	Z	1/4 ODF	\$313.00
SSE4ZP*	4	1/2	7/8	ZP	1/4 ODF	\$313.00
SSE6C*	6	5/8	7/8	C	1/4 ODF	\$313.00
SSE6Z*	6	5/8	7/8	Z	1/4 ODF	\$424.48
SSE6ZP*	6	5/8	7/8	ZP	1/4 ODF	\$313.00
SSE7ZP*	7	5/8	7/8	ZP	1/4 ODF	\$424.48



HV SERIES

Sporlan type H valve is a brass bar body, externally adjustable valve available with ODF solder flange connections. The thermostatic element is replaceable and the inlet connection has a permanent 16 mesh strainer.

This valve type provides the smallest capacity TEVs with flang connections and is designed for both air conditioning and refrigeration applications.

- Capillary length: 5'
- Element size: 33
- Connection: ODF inlet x ODF outlet flange
- Overall height: 6.56"
- External equalizer: 1/4" SAE
- Use with refrigerants R22, R407A, R407C



Part No.	Tons	Connection (In.)		Thermostatic Charge	Equalizer	Price
		Inlet	Outlet			
HVE7CP100*	7	5/8	7/8	CP100	1/4 SAE	\$911.80
HVE11GA*	11	5/8	7/8	GA	1/4 SAE	\$911.80
HVE11CP100*	11	5/8	7/8	CP100	1/4 SAE	\$911.80
HVE16GA*	16	7/8	1 1/8	GA	1/4 SAE	\$911.80
HVE20GA*	20	7/8	1 1/8	GA	1/4 SAE	\$1,054.20
HVE20CP100*	20	7/8	1 1/8	CP100	1/4 SAE	\$1,054.20

TYPE "M"

Sporlan type M valve is a cast bronze body, externally adjustable valve available with ODF solder flange connections. The thermostatic element is replaceable and the inlet connection has a permanent 12 mesh strainer. This valve type provides capacities greater than type H and is designed for both air conditioning and refrigeration applications. Flanges for the type M valve are interchangeable with the type V.

- Capillary length: 5'
- Element size: 63 gasket joint
- Connection: ODF inlet x ODF outlet flange
- External equalizer: 1/4" SAE
- Overall height: 7.75"



MJ SERIES

- Use with refrigerants R134a, R401A, R409A, R12



Part No.	Tons	Connection (In.)		Thermostatic Charge	Equalizer	Price
		Inlet	Outlet			
MJE13C*	13	7/8	1 1/8	C	1/4 ODF	\$3,409.48
MJE13CP60*	13	7/8	1 1/8	CP60	1/4 ODF	\$3,409.48
MJE15C*	15	7/8	1 1/8	C	1/4 ODF	\$3,409.48
MJE15CP60*	15	7/8	1 1/8	CP60	1/4 ODF	\$1,704.74
MJE20C*	20	7/8	1 1/8	C	1/4 ODF	\$3,409.48
MJE20CP60*	20	7/8	1 1/8	CP60	1/4 ODF	\$3,409.48
MJE25C*	25	7/8	1 1/8	C	1/4 ODF	\$3,409.48
MJE25CP60*	25	7/8	1 1/8	CP60	1/4 ODF	\$1,704.74



MV SERIES

- Use with refrigerants R22, R407A, R407C



Part No.	Tons	Connection (In.)		Thermostatic Charge	Equalizer	Price
		Inlet	Outlet			
MVE18GA*	18	7/8	1 1/8	GA	1/4 SAE	\$1,704.74
MVE21C*	21	7/8	1 1/8	C	1/4 SAE	\$1,704.74
MVE21GA*	21	7/8	1 1/8	GA	1/4 SAE	\$1,704.74
MVE21CP100*	21	7/8	1 1/8	CP100	1/4 SAE	\$1,704.74
MVE26GA*	26	7/8	1 1/8	GA	1/4 SAE	\$1,704.74
MVE26CP100*	26	7/8	1 1/8	CP100	1/4 SAE	\$1,704.74
MVE26C*	26	7/8	1 1/8	C	1/4 SAE	\$1,704.74
MVE34GA*	34	7/8	1 1/8	GA	1/4 SAE	\$1,704.74
MVE34CP100*	34	7/8	1 1/8	CP100	1/4 SAE	\$1,704.74
MVE34C*	34	7/8	1 1/8	C	1/4 SAE	\$1,704.74
MVE34Z*	34	7/8	1 1/8	Z	1/4 SAE	\$1,704.74
MVE42GA*	42	1 1/8	1 1/8	GA	1/4 SAE	\$1,326.78
MVE42CP100*	42	1 1/8	1 1/8	CP100	1/4 SAE	\$1,704.74
MVE42C*	42	1 1/8	1 1/8	C	1/4 SAE	\$1,704.74

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TXV

VV SERIES



VVE100GA

Sporlan type V valve is a cast bronze body, externally adjustable valve available with ODF solder flange connections. The thermostatic element is replaceable and the inlet connection has a permanent 12 mesh strainer. This valve features a dual port

semi balanced design and it is designed for both air conditioning and refrigeration applications. A synthetic seating surface provides tight shut-off during system off periods. This valve provides greater capacities than the type M valve. Flanges for the type V valve are interchangeable with the type M.

- Capillary length: 5'
- Overall height: 9"
- Connection: ODF inlet x ODF outlet flange
- Element size: 63 gasket joint
- External equalizer: 1/4" SAE
- Use with refrigerants R22, R407A, R407C



		Connection (In.)				
Part No.	Tons	Inlet	Outlet	Thermostatic Charge	Equalizer	Price
VVE52GA*	52	1 3/8	1 3/8	GA	1/4 SAE	\$2,387.30
VVE52CP100*	52	1 3/8	1 3/8	CP100	1/4 SAE	\$2,387.30
VVE70GA*	70	1 3/8	1 3/8	GA	1/4 SAE	\$2,387.30
VVE100GA*	100	1 3/8	1 3/8	GA	1/4 SAE	\$2,387.30



DA2L

DA SERIES, AMMONIA

Sporlan type D valve is a gray cast bronze body, externally adjustable valve available with FPT flange connections. The thermostatic element is replaceable and all internal parts are replaceable. This valve provides the smallest capacity TEVs for ammonia service.

The nominal 1 and 2 ton type D valves are identical with the exception of their discharge tubes. These valves can be converted to the other by exchanging the discharge tubes. The same applies to the nominal 10 & 15 ton type D valves.

- Capillary length: 10'
- Overall height: 6.37"
- Element size: 23 gasket joint
- Connection: 1/2" FPT inlet x 1/2" FPT outlet flange
- Use with refrigerant R717 ammonia



		Connection (In.)				
Part No.	Tons	Inlet	Outlet	Thermostatic Charge	Equalizer	Price
DA1C*	1	1/2	1/2	C	Internal	\$1,322.60
DA2C*	2	1/2	1/2	C	Internal	\$1,322.60
DA2L*	2	1/2	1/2	Liquid	Internal	\$1,322.60
DA5C*	5	1/2	1/2	C	Internal	\$1,322.60
DA5L*	6	1/2	1/2	Liquid	Internal	\$1,322.60
DA10C*	10	1/2	1/2	C	Internal	\$1,322.60
DA10L*	10	1/2	1/2	Liquid	Internal	\$1,322.60
DA10Z*	10	1/2	1/2	Z	Internal	\$1,322.60
DAE1C*	1	1/2	1/2	C	1/8 FPT	\$1,322.60
DAE1L*	1	1/2	1/2	Liquid	1/8 FPT	\$1,322.60
DAE1Z*	1	1/2	1/2	Z	1/8 FPT	\$1,322.60
DAE2C*	2	1/2	1/2	C	1/8 FPT	\$1,322.60
DAE2L*	2	1/2	1/2	Liquid	1/8 FPT	\$1,322.60
DAE2Z*	2	1/2	1/2	Z	1/8 FPT	\$1,322.60
DAE5C*	5	1/2	1/2	C	1/8 FPT	\$1,322.60
DAE5L*	5	1/2	1/2	Liquid	1/8 FPT	\$1,322.60
DAE10C*	10	1/2	1/2	C	1/8 FPT	\$1,322.60
DAE10L*	10	1/2	1/2	Liquid	1/8 FPT	\$1,322.60
DAE15C*	15	1/2	1/2	C	1/8 FPT	\$1,322.60
DAE15L*	15	1/2	1/2	Liquid	1/8 FPT	\$1,322.60



Air Conditioning, Heat Pump

GA, CP60, CP100

Refrigeration

C: +50°F to -10°F

Z, ZP, ZP40: 0°F to -40°F

X: -40°F to -100°F

L = Liquid

L2 = Desuperheating

"P" limits pressure at refrigerant standard or noted value for system protection

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Y1037FV1190

TEMPERATURE RESPONSIVE

Modulates refrigerant flow in response to bulb temperature to help solve R22 discharge temperature problems.

- Extended solder ends
- Connection size: 3/8" inlet ODF x 3/8" outlet ODF
- Capillary length: 5'
- Overall width: 4.98"



Part No.	Nominal Tons	Temperature (°F)	Price
Y1037FV13190*	1/3	190	\$500.74
Y1037FV13230*	1/3	230	\$500.74
Y1037FV12180*	1/2	180	\$543.58
Y1037FV12190*	1/2	190	\$500.74
Y1037FV1220*	1	220	\$500.74
Y1037FV12210*	1/2	210	\$543.58
Y1037FV1222*	1/2	220	\$500.74
Y1037FV1223*	1/2	230	\$500.74
Y1037FV1224*	1/2	240	\$500.74
Y1037FV1180*	1	180	\$543.58
Y1037FV1190*	1	190	\$500.74
Y1037FV1230*	1	230	\$500.74
Y1037FV1240*	1	240	\$500.74
Y1037FV1250*	1	250	\$543.58
Y1037FV11222*	1 1/2	220	\$500.74
Y1037FV11223*	1 1/2	230	\$500.74
Y1037FV11224*	1 1/2	240	\$500.74
Y1037FV2220*	2	220	\$500.74
Y1037FV2230*	2	230	\$500.74
Y1037FV2240*	2	240	\$543.58
Y1037FV5190*	5	190	\$500.74



AFA

AFA SERIES

Alco's AFA Series Thermo® expansion valve is designed for air conditioning and commercial refrigeration applications.

- External superheat adjustment
- Replaceable inlet strainer
- Overall height: 3 19/32"
- Connection: M flare 90° inlet x M flare outlet

AFAF SERIES

- Use with refrigerants R409A, R134a, R401A, R12



		Connection (In.)				
Part No.	Tons	Inlet	Outlet	Thermostatic Charge	Equalizer	Price
AFA1/4FC*	1/4	1/4	1/2	C	Internal	\$132.14
AFA1/4FW15*	1/4	1/4	1/2	W15	Internal	\$130.30
AFA1/2FC*	1/2	1/4	1/2	C	Internal	\$126.10
AFA1/2FC3/8*	1/2	3/8	1/2	C	Internal	\$132.14
AFA1FC*	1	3/8	1/2	C	Internal	\$132.14
AFAE1/4FC*	1/4	1/4	1/2	C	1/4 SAE	\$147.18
AFAE1/2FC*	1/2	1/4	1/2	C	1/4 SAE	\$143.76

AFAH SERIES

- Use with refrigerants R22, R407A, R407C



		Connection (In.)				
Part No.	Tons	Inlet	Outlet	Thermostatic Charge	Equalizer	Price
AFA1/4HC*	1/4	1/4	1/2	C	Internal	\$128.00
AFA1/2HC*	1/2	1/4	1/2	C	Internal	\$128.00
AFAE1HC*	1	3/8	1/2	C	1/4 SAE	\$147.18

AFAF SERIES

- Use with refrigerants R404A, R408A, R502



		Connection (In.)				
Part No.	Tons	Inlet	Outlet	Thermostatic Charge	Equalizer	Price
AFA14RC*	1/4	1/4	1/2	C	Internal	\$132.14
AFA1/2RC*	1/2	1/4	1/2	C	Internal	\$132.14
AFAE1/2RC*	1/2	1/4	1/2	C	1/4 SAE	\$146.16



Key

C, CA, AA = -20°F to 50°F Medium Temperature
 Z = -50°F to 10°F Low Temperature
 W15 = -50°F to 0°F, 15 Lb. Limit
 W45 = -50°F to 0°F, 45 Lb. Limit
 W195 = -20°F to 50°F, 195 Lb. Limit, Air Conditioning



Air Conditioning, Heat Pump

GA, CP60, CP100

Refrigeration

C: +50°F to -10°F L = Liquid
 Z, ZP, ZP40: 0°F to -40°F L2 = Desuperheating
 X: -40°F to -100°F

"P" limits pressure at refrigerant standard or noted value for system protection

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VALVES

TXV



AA SERIES

- Stainless steel power element eliminates corrosion and prevents valve failure
- Hermetic, leak-free construction
- Compact size allows installation in limited spaces

- Mass spectrometer tested to ensure less than 0.10 oz/year external leakage rate
- Adjustable superheat, external equalizer
- Maximum working pressure: 700 psig
UL/CUL file number: SA 531

AA SERIES

- Without internal check valve
- Internal equalizer
- Thermostatic charge: C



		Connection Size (In.)				
Part No.	Tons	Inlet	Outlet	Type	Equalizer	Price
AA1/4HC-1/4X1/2*	1/4	1/4	1/2	ODF inlet x ODF outlet	Internal	\$120.44
AA1/2HC*	1/2	1/4	1/2	ODF inlet x ODF outlet	Internal	\$120.44

AACEH SERIES

- Use with refrigerants R22, R407A, R407C
- Internal check valve allows reverse flow for heat pump applications
- Connection: ODF inlet x ODF outlet



		Connection (In.)				
Part No.	Tons	Inlet	Outlet	Thermostatic Charge	Equalizer	Price
AACE212HAA*	2 1/2	3/8	1/2	AA	1/4 ODF	\$159.66
AACE5HAA*	5	3/8	1/2	AA	1/4 ODF	\$159.66

AACEZ SERIES

- Use with refrigerant R410A
- Internal check valve allows reverse flow for heat pump applications
- Connection: ODF inlet x ODF outlet



		Connection (In.)				
Part No.	Tons	Inlet	Outlet	Thermostatic Charge	Equalizer	Price
AACE3ZW195*	3	3/8	1/2	W195	1/4 ODF	\$166.68
AACE4ZW195*	4	3/8	1/2	W195	1/4 ODF	\$166.68
AACE5ZW195*	5	1/2	5/8	W195	1/4 ODF	\$166.68



Key
 C, CA, AA = -20°F to 50°F Medium Temperature
 Z = -50°F to 10°F Low Temperature
 W15 = -50°F to 0°F, 15 Lb. Limit
 W45 = -50°F to 0°F, 45 Lb. Limit
 W195 = -20°F to 50°F, 195 Lb. Limit, Air Conditioning

BALANCED PORT TXV



BF SERIES

Sporlan type BF valve is a small brass bar body valve with SAE flar connections and balanced port construction. This valve has the same exterior dimensions as the type F valve. The thermostatic element is replaceable, and the inlet connection

has a removable 100 mesh strainer. The balanced port construction makes this valve ideally suited for small capacity refrigeration applications which operate over widely varying operating conditions.

- Overall height: 3.76"
- Connection: M flare 90° inlet x M flare out

BFJ SERIES

- Use with refrigerants R134a, R401A, R409A, R12



		Connection (In.)				
Part No.	Tons	Inlet	Outlet	Thermostatic Charge	Equalizer	Price
BFJAAAC*	1/8 to 1/5	3/8	1/2	C	Internal	\$607.08
BFJAAAZ*	1/8 to 1/5	3/8	1/2	Z	Internal	\$607.08
BFJAAAZP*	1/8 to 1/5	1/4	1/2	ZP	Internal	\$607.08
BFJAAAC*	1/4 to 1/3	3/8	1/2	C	Internal	\$303.54
BFJAAZ*	1/4 to 1/3	3/8	1/2	Z	Internal	\$303.54
BFJAAZP*	1/4 to 1/3	3/8	1/2	ZP	Internal	\$303.54
BFJAC*	1/2 to 1	3/8	1/2	C	Internal	\$275.96
BFJAZ*	1/2 to 1	3/8	1/2	Z	Internal	\$607.08
BFJAZP*	1/2 to 1	3/8	1/2	ZP	Internal	\$303.54
BFJBC*	1 1/4 to 1 3/4	3/8	1/2	C	Internal	\$607.08
BFJBPC60*	1 1/4 to 1 3/4	3/8	1/2	CP60	Internal	\$607.08
BFJBZ*	1 1/4 to 1 3/4	3/8	1/2	Z	Internal	\$607.08
BFJC*	2 to 3	3/8	1/2	C	Internal	\$607.08
BFJCCP60*	2 to 3	3/8	1/2	CP60	Internal	\$607.08
BFJ CZ*	2 to 3	3/8	1/2	Z	Internal	\$607.08
BFJEAAAC*	1/8 to 1/5	1/4	1/2	C	1/4 SAE	\$607.08
BFJEAAAC*	1/4 to 1/3	1/4	1/2	C	1/4 SAE	\$304.90
BFJEAAZ*	1/4 to 1/3	1/4	1/2	Z	1/4 SAE	\$607.08
BFJEAAZP*	1/4 to 1/3	1/4	1/2	ZP	1/4 SAE	\$607.08
BFJEAC*	1/2 to 1	3/8	1/2	C	1/4 SAE	\$277.20
BFJEACP60*	1/2 to 1	3/8	1/2	CP60	1/4 SAE	\$607.08
BFJEAZ*	1/2 to 1	3/8	1/2	Z	1/4 SAE	\$304.90
BFJEAZP*	1/2 to 1	3/8	1/2	ZP	1/4 SAE	\$304.90
BFJEBC*	1 1/4 to 1 3/4	3/8	1/2	C	1/4 SAE	\$277.20
BFJEBPC60*	1 1/4 to 1 3/4	3/8	1/2	CP60	1/4 SAE	\$607.08
BFJEBZ*	1 1/4 to 1 3/4	3/8	1/2	Z	1/4 SAE	\$607.08
BFJEBZP*	1 1/4 to 1 3/4	3/8	1/2	ZP	1/4 SAE	\$607.08
BFJECC*	2 to 3	3/8	1/2	C	1/4 SAE	\$277.20
BFJECCP60*	2 to 3	3/8	1/2	CP60	1/4 SAE	\$607.08
BFJECZ*	2 to 3	3/8	1/2	Z	1/4 SAE	\$607.08
BFJECZP*	2 to 3	3/8	1/2	ZP	1/4 SAE	\$607.08

AWEF factors for TEVs guide pages 1444-1446

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BFS SERIES

- Use with refrigerants R404A, R408A, R502



Part No.	Tons	Connection (In.)		Thermostatic Charge	Equalizer	Price
		Inlet	Outlet			
BFSAAC-1/2*	1/8 to 1/3	1/4	1/2	C	Internal	\$303.54
BFSAAC-3/8*	1/8 to 1/3	1/4	3/8	C	Internal	\$303.54
BFSAAC*	1/4 to 1/3	1/4	1/2	C	Internal	\$275.96
BFSAAZ*	1/4 to 1/3	1/4	1/2	Z	Internal	\$303.54
BFSAAZP*	1/4 to 1/3	1/4	1/2	ZP	Internal	\$303.54
BFSAZ*	1/2 to 1	3/8	1/2	C	Internal	\$275.96
BFSAZP*	1/2 to 1	3/8	1/2	Z	Internal	\$303.54
BFSAZP*	1/2 to 1	3/8	1/2	ZP	Internal	\$303.54
BFSEAC*	1/4 to 1/3	1/4	1/2	C	1/4 SAE	\$304.90
BFSEAZ*	1/4 to 1/3	1/4	1/2	Z	1/4 SAE	\$304.90
BFSEAZP*	1/4 to 1/3	1/4	1/2	ZP	1/4 SAE	\$304.90
BFSEAC*	1/2 to 1	3/8	1/2	C	1/4 SAE	\$277.20
BFSEAZ*	1/2 to 1	3/8	1/2	Z	1/4 SAE	\$277.20
BFSEAZP*	1/2 to 1	3/8	1/2	ZP	1/4 SAE	\$277.20
BFSEBC*	1 1/4 to 2	3/8	1/2	C	1/4 SAE	\$277.20
BFSEBZ*	1 1/4 to 2	3/8	1/2	Z	1/4 SAE	\$277.20
BFSEBZP*	1 1/4 to 2	3/8	1/2	ZP	1/4 SAE	\$277.20
BFSECC*	2 1/4 to 3	3/8	1/2	C	1/4 SAE	\$304.90
BFSECZ*	2 1/4 to 3	3/8	1/2	Z	1/4 SAE	\$304.90
BFSECZP*	2 1/4 to 3	3/8	1/2	ZP	1/4 SAE	\$304.90

BFV SERIES

- Use with refrigerants R22, R407A, R407C



Part No.	Tons	Connection (In.)		Thermostatic Charge	Equal-izer	Price
		Inlet	Outlet			
BFVAAAC*	1/8 to 1/3	1/4	1/2	C	Internal	\$275.96
BFVAAAZ*	1/8 to 1/3	1/4	1/2	Z	Internal	\$303.54
BFVAAAC*	1/2 to 2/3	1/4	1/2	C	Internal	\$303.54
BFVAAAZ*	1/2 to 2/3	1/4	1/2	Z	Internal	\$271.26
BFVAAZP*	1/2 to 2/3	1/4	1/2	ZP	Internal	\$303.54
BFVAC*	3/4 to 1 1/2	3/8	1/2	C	Internal	\$275.96
BFVAZ*	3/4 to 1 1/2	3/8	1/2	Z	Internal	\$303.54
BFVAZP*	3/4 to 1 1/2	3/8	1/2	ZP	Internal	\$303.54
BFVBC*	1 3/4 to 3	3/8	1/2	C	Internal	\$303.54
BFVBZP*	1 3/4 to 3	3/8	1/2	ZP	Internal	\$303.54
BFVCC*	3 1/4 to 5 1/2	3/8	1/2	C	Internal	\$303.54
BFVCZ*	3 1/4 to 5 1/2	3/8	1/2	Z	Internal	\$303.54
BFVEAAC*	1/8 to 1/3	1/4	1/2	C	1/4 SAE	\$304.90
BFVEAAC*	1/2 to 2/3	3/8	1/2	C	1/4 SAE	\$277.20
BFVEAAC-1/4*	1/2 to 2/3	1/4	1/2	C	1/4 SAE	\$277.20
BFVEAAZ*	1/2 to 2/3	1/4	1/2	Z	1/4 SAE	\$304.90
BFVEAAZP*	1/2 to 2/3	3/8	1/2	ZP	1/4 SAE	\$304.90
BFVEAAZP40*	1/2 to 2/3	3/8	1/2	ZP40	1/4 SAE	\$304.90
BFVEAC*	3/4 to 1 1/2	3/8	1/2	C	1/4 SAE	\$277.20
BFVEAZ*	3/4 to 1 1/2	3/8	1/2	Z	1/4 SAE	\$304.90
BFVEAZP*	3/4 to 1 1/2	3/8	1/2	ZP	1/4 SAE	\$304.90
BFVEAZP40*	3/4 to 1 1/2	3/8	1/2	ZP40	1/4 SAE	\$304.90
BFVEBC*	1 3/4 to 3	3/8	1/2	C	1/4 SAE	\$277.20
BFVEBZ*	1 3/4 to 3	3/8	1/2	Z	1/4 SAE	\$304.90
BFVEBZP*	1 3/4 to 3	3/8	1/2	ZP	1/4 SAE	\$304.90
BFVEBZP40*	1 3/4 to 3	3/8	1/2	ZP40	1/4 SAE	\$304.90
BFVECC*	3 1/4 to 5 1/2	3/8	1/2	C	1/4 SAE	\$277.20
BFVECCZ*	3 1/4 to 5 1/2	3/8	1/2	Z	1/4 SAE	\$304.90
BFVECCZP*	3 1/4 to 5 1/2	3/8	1/2	ZP	1/4 SAE	\$304.90

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Air Conditioning, Heat Pump

GA, CP60, CP100

Refrigeration

C: +50°F to -10°F

Z, ZP, ZP40: 0°F to -40°F

X: -40°F to -100°F

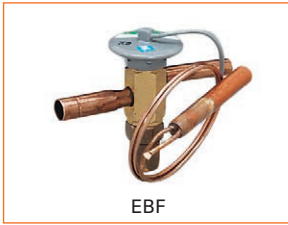
L = Liquid

L2 = Desuperheating

"P" limits pressure at refrigerant standard or noted value for system protection

*WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

BALANCED PORT TXV



EBF

EBF SERIES

Sporlan type EBF is a small brass bar body valve with extended ODF solder connections and the same balanced port construction as the type BF valve. The type EBF has a 100 mesh insert strainer. The balanced port construction makes this valve ideally suited for small

capacity refrigeration applications which operate over widely varying conditions.

- Element length: 30"
- Element size: 43
- Connection type: 3/8" ODF inlet x 1/2" ODF outlet extended
- Overall height: 3.76"
- Overall width: 5"

EBFJ SERIES

- Use with refrigerants R134a, R401A, R409A, R12



		Connection (In.)				
Part No.	Tons	Inlet	Out-let	Thermostatic Charge	Equal-izer	Price
EBFJAAAC*	1/8 to 1/5	3/8	1/2	C	Internal	\$271.74
EBFJAAAZ*	1/8 to 1/5	3/8	1/2	Z	Internal	\$543.48
EBFJAAAC*	1/4 to 1/3	3/8	1/2	C	Internal	\$247.06
EBFJAACP60*	1/4 to 1/3	3/8	1/2	CP60	Internal	\$543.48
EBFJAAZ*	1/4 to 1/3	3/8	1/2	Z	Internal	\$543.48
EBFJAC*	1/2 to 1	3/8	1/2	C	Internal	\$271.74
EBFJACP60*	1/2 to 1	3/8	1/2	CP60	Internal	\$271.74
EBFJAZ*	1/2 to 1	3/8	1/2	Z	Internal	\$543.48
EBFJBC*	1 1/4 to 1 3/4	3/8	1/2	C	Internal	\$543.48
EBFJBPC60*	1 1/4 to 1 3/4	3/8	1/2	CP60	Internal	\$271.74
EBFJC*	2 to 3	3/8	1/2	C	Internal	\$543.48
EBFJCPC60*	2 to 3	3/8	1/2	CP60	Internal	\$271.74
EBFJEAAAC*	1/8 to 1/5	3/8	1/2	C	1/4 ODF	\$543.56
EBFJEAAACP60*	1/8 to 1/5	3/8	1/2	CP60	1/4 ODF	\$543.56
EBFJEAAAC*	1/4 to 1/3	3/8	1/2	C	1/4 ODF	\$271.78
EBFJEAAZ*	1/4 to 1/3	3/8	1/2	Z	1/4 ODF	\$543.56
EBFJEAC*	1/2 to 1	3/8	1/2	C	1/4 ODF	\$271.78
EBFJEACP60*	1/2 to 1	3/8	1/2	CP60	1/4 ODF	\$543.56
EBFJEAZ*	1/2 to 1	3/8	1/2	Z	1/4 ODF	\$543.56
EBFJEBC*	1 1/4 to 1 3/4	3/8	1/2	C	1/4 ODF	\$298.96
EBFJEBCP60*	1 1/4 to 1 3/4	3/8	1/2	CP60	1/4 ODF	\$543.56
EBFJEBZ*	1 1/4 to 1 3/4	3/8	1/2	Z	1/4 ODF	\$543.56
EBFJECC*	2 to 3	3/8	1/2	C	1/4 ODF	\$298.96
EBFJECCP60*	2 to 3	3/8	1/2	CP60	1/4 ODF	\$543.56

EBFV SERIES

- Use with refrigerants R22, R407A, R407C



		Connection				
Part No.	Tons	In-let	Out-let	Thermostatic Charge	Equalizer	Price
EBFVAAAC*	1/2 to 2/3	3/8	1/2	C	Internal	\$247.06
EBFVAAAZ*	1/2 to 2/3	3/8	1/2	Z	Internal	\$271.74
EBFVAC*	3/4 to 1 1/2	3/8	1/2	C	Internal	\$271.74
EBFVAAAC*	1/8 to 1/3	3/8	1/2	C	Internal	\$247.06
EBFVAAAZ*	1/8 to 1/3	3/8	1/2	Z	Internal	\$271.74
EBFVEAAAC*	1/8 to 1/3	3/8	1/2	C	1/4 ODF	\$298.96
EBFVEAAC*	1/2 to 2/3	3/8	1/2	C	1/4 ODF	\$271.78
EBFVEAAZ*	1/2 to 2/3	3/8	1/2	Z	1/4 ODF	\$298.96
EBFVEAAZP*	1/2 to 2/3	3/8	1/2	ZP	1/4 ODF	\$298.96
EBFVEAC*	3/4 to 1 1/2	3/8	1/2	C	1/4 ODF	\$271.78
EBFVEAZ*	3/4 to 1 1/2	3/8	1/2	Z	1/4 ODF	\$298.96
EBFVEAZP*	3/4 to 1 1/2	3/8	1/2	ZP	1/4 ODF	\$298.96
EBFVEAZP40*	3/4 to 1 1/2	3/8	1/2	ZP40	1/4 ODF	\$298.96
EBFVEBC*	1 3/4 to 3	3/8	1/2	C	1/4 ODF	\$271.78
EBFVEBZ*	1 3/4 to 3	3/8	1/2	Z	1/4 ODF	\$298.96
EBFVEBZP*	1 3/4 to 3	3/8	1/2	ZP	1/4 ODF	\$298.96
EBFVECC*	3 1/4 to 5 1/2	3/8	1/2	C	1/4 ODF	\$271.78
EBFVECGA*	3 1/4 to 5 1/2	3/8	1/2	GA	1/4 ODF	\$298.96
EBFVECZ*	3 1/4 to 5 1/2	3/8	1/2	Z	1/4 ODF	\$298.96
EBFVECZP*	3 1/4 to 5 1/2	3/8	1/2	ZP	1/4 ODF	\$298.96
EBFVECZP40*	3 1/4 to 5 1/2	3/8	1/2	ZP40	1/4 ODF	\$298.96

EBFS SERIES

- Use with refrigerants R404A, R408A, R502



		Connection (In.)				
Part No.	Tons	Inlet	Out-let	Thermostatic Charge	Equalizer	Price
EBFSAAAC*	1/8 to 1/5	3/8	1/2	C	Internal	\$271.74
EBFSAAAC*	1/4 to 1/3	3/8	1/2	C	Internal	\$271.74
EBFSAAZ*	1/4 to 1/3	3/8	1/2	Z	Internal	\$271.74
EBFSAC*	1/2 to 1	3/8	1/2	C	Internal	\$247.06
EBFSAZ*	1/2 to 1	3/8	1/2	Z	Internal	\$271.74
EBFSEAAC*	1/4 to 1/3	3/8	1/2	C	1/4 ODF	\$298.96
EBFSEAAZ*	1/4 to 1/3	3/8	1/2	Z	1/4 ODF	\$298.96
EBFSEAC*	1/2 to 1	3/8	1/2	C	1/4 ODF	\$271.78
EBFSEAZ*	1/2 to 1	3/8	1/2	Z	1/4 ODF	\$271.78
EBFSEAZP*	1/2 to 1	3/8	1/2	ZP	1/4 ODF	\$271.78
EBFSEBC*	1 1/4 to 2	3/8	1/2	C	1/4 ODF	\$298.96
EBFSEBC-3X4*	1 1/4 to 2	3/8	1/2	C	1/4 ODF	\$298.96
EBFSEBZ*	1 1/4 to 2	3/8	1/2	Z	1/4 ODF	\$298.96
EBFSEBZP*	1 1/4 to 2	3/8	1/2	ZP	1/4 ODF	\$298.96
EBFSECC*	2 1/4 to 3	3/8	1/2	C	1/4 ODF	\$298.96
EBFSECZ*	2 1/4 to 3	3/8	1/2	Z	1/4 ODF	\$298.96
EBFSECZP*	2 1/4 to 3	3/8	1/2	ZP	1/4 ODF	\$298.96

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EBSVE8C

EBSV SERIES

Sporlan type EBS valve is a brass bar body valve having the same physical sizes as the type S valve except the type EBS features a balanced port construction and extended ODF connections. The thermostatic element is replaceable. The balanced port

construction makes this valve ideally suited for refrigeration and air conditioning applications which operate over widely varying conditions.

- Capillary length: 5'
- Overall height: 5.22"
- Overall width: 5.01"
- Element size: 83
- Connection: ODF inlet x ODF outlet
- External equalizer pointed toward bottom cap
- Use with refrigerants R22, R407A, R407C



		Connection (In.)				
Part No.	Tons	Inlet	Out-let	Thermostatic Charge	Equalizer	Price
EBSVE8GA*	8	5/8	7/8	GA	1/4 ODF	\$379.38
EBSVE8CP100*	8	5/8	7/8	CP100	1/4 ODF	\$379.38
EBSVE8C*	8	5/8	7/8	C	1/4 ODF	\$499.70
EBSVE11GA*	11	5/8	7/8	GA	1/4 ODF	\$379.38
EBSVE11CP100*	11	5/8	7/8	CP100	1/4 ODF	\$379.38
EBSVE11C*	11	5/8	7/8	C	1/4 ODF	\$379.38
EBSVE15C*	15	7/8	1 1/8	C	1/4 ODF	\$589.26
EBSVE15GA*	15	7/8	1 1/8	GA	1/4 ODF	\$447.36
EBSVE20C*	20	7/8	1 3/8	C	1/4 ODF	\$589.26



SBF

SBF SERIES

Type SBF is a small brass bar body valve with extended ODF solder connections and the same balanced port construction as the type BF valve. Both valves have replaceable thermostatic elements. The type SBF has a 100 mesh removable strainer

that can be cleaned and/or replaced while the valve is still soldered to the system tubing. The balanced port construction makes these valves ideally suited for small capacity refrigeration applications which operate over widely varying conditions.

- Element length: 30"
- Element size: 43
- Overall height: 3.76"
- Connection: 3/8" ODF 90° inlet x 1/2" ODF outlet

SBFJ SERIES

- Use with refrigerants R134a, R401A, R409A, R12



		Connection (In.)				
Part No.	Tons	In-let	Out-let	Thermostatic Charge	Equal-izer	Price
SBFJAAAC*	1/8 to 1/5	3/8	1/2	C	Internal	\$285.32
SBFJAAC*	1/4 to 1/3	3/8	1/2	C	Internal	\$259.38
SBFJAC*	1/2 to 1	3/8	1/2	C	Internal	\$285.32

Continued...

SBFJ SERIES (CONT'D.)

		Connection (In.)				
Part No.	Tons	In-let	Out-let	Thermostatic Charge	Equal-izer	Price
SBFJAZ*	1/2 to 1	3/8	1/2	Z	Internal	\$570.64
SBFJEAAAC*	1/8 to 1/5	3/8	1/2	C	1/4 ODF	\$627.68
SBFJEAAACP60*	1/8 to 1/5	3/8	1/2	CP60	1/4 ODF	\$627.68
SBFJEAAAZ*	1/8 to 1/5	3/8	1/2	Z	1/4 ODF	\$627.68
SBFJEAC*	1/4 to 1/3	3/8	1/2	C	1/4 ODF	\$313.84
SBFJEAC*	1/2 to 1	3/8	1/2	C	1/4 ODF	\$285.32
SBFJEAZ*	1/2 to 1	3/8	1/2	Z	1/4 ODF	\$627.68
SBFJEAZP*	1/2 to 1	3/8	1/2	ZP	1/4 ODF	\$313.84
SBFJEBC*	1 1/4 to 1 3/4	3/8	1/2	C	1/4 ODF	\$285.32
SBFJEBZ*	1 1/4 to 1 3/4	3/8	1/2	Z	1/4 ODF	\$627.68
SBFJECC*	2 to 3	3/8	1/2	C	1/4 ODF	\$313.84
SBFJECCP60*	2 to 3	3/8	1/2	CP60	1/4 ODF	\$627.68

SBFS SERIES

- Use with refrigerants R404A, R408A, R502



		Connection (In.)				
Part No.	Tons	Inlet	Out-let	Thermostatic Charge	Equalizer	Price
SBFSAAAC*	1/8 to 1/5	3/8	1/2	C	Internal	\$285.32
SBFSAAAC*	1/4 to 1/3	3/8	1/2	C	Internal	\$259.38
SBFSAAZP*	1/4 to 1/3	3/8	1/2	ZP	Internal	\$285.32
SBFSAC*	1/2 to 1	3/8	1/2	C	Internal	\$285.32
SBFSAZP*	1/2 to 1	3/8	1/2	ZP	Internal	\$285.32
SBFSEAAAC*	1/8 to 1/5	3/8	1/2	C	1/4 ODF	\$313.84
SBFSEAAAZ*	1/8 to 1/5	3/8	1/2	Z	1/4 ODF	\$313.84
SBFSEAAAZP*	1/8 to 1/5	3/8	1/2	ZP	1/4 ODF	\$313.84
SBFSEAAC*	1/4 to 1/3	3/8	1/2	C	1/4 ODF	\$285.32
SBFSEAAZP*	1/4 to 1/3	3/8	1/2	ZP	1/4 ODF	\$285.32
SBFSEAC*	1/2 to 1	3/8	1/2	C	1/4 ODF	\$285.32
SBFSEAZ*	1/2 to 1	3/8	1/2	Z	1/4 ODF	\$285.32
SBFSEAZP*	1/2 to 1	3/8	1/2	ZP	1/4 ODF	\$285.32
SBFSEBC*	1 1/4 to 2	3/8	1/2	C	1/4 ODF	\$285.32
SBFSEBZ*	1 1/4 to 2	3/8	1/2	Z	1/4 ODF	\$285.32
SBFSEBZP*	1 1/4 to 2	3/8	1/2	ZP	1/4 ODF	\$285.32
SBFSECC*	2 1/4 to 3	3/8	1/2	C	1/4 ODF	\$285.32
SBFSECZ*	2 1/4 to 3	3/8	1/2	Z	1/4 ODF	\$313.84
SBFSECZP*	2 1/4 to 3	3/8	1/2	ZP	1/4 ODF	\$285.32

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Air Conditioning, Heat Pump

GA, CP60, CP100

Refrigeration

C: +50°F to -10°F

Z, ZP, ZP40: 0°F to -40°F

X: -40°F to -100°F

L = Liquid

L2 = Desuperheating

"P" limits pressure at refrigerant standard or noted value for system protection



*WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

BALANCED PORT TXV

SBFV SERIES

- Use with refrigerants R22, R407A, R407C



		Connection (In.)				
Part No.	Tons	Inlet	Outlet	Thermostatic Charge	Equalizer	Price
SBFVAAAC*	1/8 to 1/3	3/8	1/2	C	Internal	\$259.38
SBFVAAC*	1/2 to 2/3	3/8	1/2	C	Internal	\$259.38
SBFVAAP40*	1/2 to 2/3	3/8	1/2	ZP40	Internal	\$285.32
SBFVAC*	3/4 to 1 1/2	3/8	1/2	C	Internal	\$285.32
SBFVBC*	1 3/4 to 3	3/8	1/2	C	Internal	\$285.32
SBFVEAAZP*	1/8 to 1/3	3/8	1/2	ZP	1/4 ODF	\$313.84
SBFVEAAC*	1/8 to 1/3	3/8	1/2	C	1/4 ODF	\$285.32
SBFVEAC*	1/2 to 2/3	3/8	1/2	C	1/4 ODF	\$285.32
SBFVEAZP*	1/2 to 2/3	3/8	1/2	ZP	1/4 ODF	\$313.84
SBFVEAZP40*	1/2 to 2/3	3/8	1/2	ZP40	1/4 ODF	\$313.84
SBFVEAC*	3/4 to 1 1/2	3/8	1/2	C	1/4 ODF	\$285.32
SBFVEAZ*	3/4 to 1 1/2	3/8	1/2	Z	1/4 ODF	\$285.32
SBFVEAZP*	3/4 to 1 1/2	3/8	1/2	ZP	1/4 ODF	\$313.84
SBFVEAZP40*	3/4 to 1 1/2	3/8	1/2	ZP40	1/4 ODF	\$313.84
SBFVEBC*	1 3/4 to 3	3/8	1/2	C	1/4 ODF	\$285.32
SBFVEBZP*	1 3/4 to 3	3/8	1/2	ZP	1/4 ODF	\$313.84
SBFVEBZ*	1 3/4 to 3	3/8	1/2	Z	1/4 ODF	\$313.84
SBFVECC*	3 1/4 to 5 1/2	3/8	1/2	C	1/4 ODF	\$285.32
SBFVECC*	3 1/4 to 5 1/2	3/8	1/2	Z	1/4 ODF	\$313.84



OSE6C

TYPE "O"

Sporlan type O valve is a brass bar body, externally adjustable valve with ODF solder connections. The thermostatic element is replaceable and the inlet connection has a permanent 12 mesh strainer. This valve type features a balanced port construction and is

designed for both air conditioning and refrigeration applications. A synthetic seating surface provides tight shut-off during system off periods. This valve has two body styles: a small body which provides capacities up to 30 tons R-22, and a large body which extends capacities to 70 tons R-22.

- Capillary length: 5'
- Connection: ODF inlet x ODF outlet
- External equalizer: 1/4" ODF

OJ SERIES

- Use with refrigerants R134a



		Connection (In.)				
Part No.	Tons	Inlet	Outlet	Thermostatic Charge	Equalizer	Price
OJE9CP60*	9	7/8	1 1/8	CP60	1/4 ODF	\$591.54
OJE12CP60*	12	7/8	1 1/8	CP60	1/4 ODF	\$591.54
OJE16CP60*	16	7/8	1 3/8	CP60	1/4 ODF	\$591.54
OJE23CP60*	23	7/8	1 3/8	CP60	1/4 ODF	\$1,067.94

OS SERIES

- Use with refrigerants R404A, R408A, R502



		Connection (In.)				
Part No.	Tons	Inlet	Outlet	Thermostatic Charge	Equalizer	Price
OSE6C*	6	7/8	1 1/8	C	1/4 ODF	\$591.54
OSE6ZP*	6	7/8	1 1/8	ZP	1/4 ODF	\$591.54
OSE9C*	9	7/8	1 1/8	C	1/4 ODF	\$449.00
OSE9CP115*	9	7/8	1 1/8	C	1/4 ODF	\$591.54
OSE9Z*	9	7/8	1 1/8	Z	1/4 ODF	\$591.54
OSE9ZP*	9	7/8	1 1/8	ZP	1/4 ODF	\$449.00
OSE12C*	12	7/8	1 3/8	C	1/4 ODF	\$449.00
OSE12Z*	12	7/8	1 3/8	Z	1/4 ODF	\$591.54
OSE12ZP*	12	7/8	1 3/8	ZP	1/4 ODF	\$449.00
OSE21C*	21	1 1/8	1 3/8	C	1/4 ODF	\$591.54
OSE21ZP*	21	1 1/8	1 3/8	ZP	1/4 ODF	\$591.54
OSE30Z*	30	1 1/8	1 5/8	Z	1/4 ODF	\$1,067.94
OSE35ZP*	35	1 1/8	1 3/8	ZP	1/4 ODF	\$1,067.94

OV SERIES

- Use with refrigerants R22, R407A, R407C



		Connection (In.)				
Part No.	Tons	Inlet	Outlet	Thermostatic Charge	Equalizer	Price
OVE10GA*	10	5/8	7/8	GA	1/4 ODF	\$591.54
OVE10CP100*	10	5/8	7/8	CP100	1/4 ODF	\$591.54
OVE10C*	10	5/8	7/8	C	1/4 ODF	\$591.54
OVE15GA*	15	7/8	1 1/8	GA	1/4 ODF	\$449.00
OVE15CP100*	15	7/8	1 1/8	CP100	1/4 ODF	\$449.00
OVE15C*	15	7/8	1 1/8	C	1/4 ODF	\$449.00
OVE20GA*	20	7/8	1 3/8	GA	1/4 ODF	\$449.00
OVE20CP100*	20	7/8	1 3/8	CP100	1/4 ODF	\$449.00
OVE20C*	20	7/8	1 3/8	C	1/4 ODF	\$449.00
OVE30GA*	30	1 1/8	1 3/8	GA	1/4 ODF	\$449.00
OVE30GA-10*	30	1 1/8	1 3/8	GA	1/4 ODF	\$731.26
OVE30CP100*	30	1 1/8	1 3/8	CP100	1/4 ODF	\$449.00
OVE40GA*	40	1 1/8	1 3/8	GA	1/4 ODF	\$810.62
OVE40CP100*	40	1 1/8	1 3/8	CP100	1/4 ODF	\$810.62
OVE40Z*	40	1 1/8	1 3/8	Z	1/4 ODF	\$1,067.94
OVE55GA*	55	1 1/8	1 3/8	GA	1/4 ODF	\$810.62
OVE55CP100*	55	1 1/8	1 3/8	CP100	1/4 ODF	\$1,067.94
OVE70GA*	70	1 1/8	1 3/8	GA	1/4 ODF	\$1,067.94
OVE70CP100*	70	1 1/8	1 3/8	CP100	1/4 ODF	\$1,067.94

*WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

OZ SERIES

- Use with refrigerant R410A



Part No.	Tons	Connection (In.)		Thermostatic Charge	Equalizer	Price
		Inlet	Outlet			
OZE20GA*	20	7/8	1 3/8	GA	1/4 ODF	\$653.38
OZE20GA-B15*	20	7/8	1 3/8	GA	1/4 ODF	\$727.04
OZE25GA*	25	1 1/8	1 3/8	GA	1/4 ODF	\$653.38
OZE35GA*	35	1 1/8	1 3/8	GA	1/4 ODF	\$653.38
OZE35GA-B15*	35	1 1/8	1 3/8	GA	1/4 ODF	\$727.04
OZE50GA*	50	1 1/8	1 3/8	GA	1/4 ODF	\$1,129.80
OZE60GA*	60	1 1/8	1 3/8	GA	1/4 ODF	\$1,129.80

RC SERIES

An externally adjustable balanced port with an internal check valve to allow reverse flow in heat pump applications. They are ideally suited for replacement of OEM types CBI, CBBI, I, RI, BI, and BBI valves as well as other heat pump or cooling only applications. They utilize the KT45 element design.

- External equalizer: 1/4" ODF
- Overall length: 3.66"
- Overall width: 3.45"



RCZE2GA

RC SERIES, R410A

- Use with refrigerant R410A
- KIT suffix: sweat kit that includes one chatleff and one aeroquip connector



Part No.	Tons	Connection (In.)		Type	Thermostatic Charge	Price
		Inlet	Outlet			
RCZE2GA*	2	3/8	1/2	ODF	GA	\$304.10
RCZE3GA*	3	3/8	1/2	ODF	GA	\$304.10
RCZE4GA*	4	1/2	1/2	ODF	GA	\$304.10
RCZE5GA*	5	1/2	5/8	ODF	GA	\$304.10
RCZE6GA*	6	1/2	5/8	ODF	GA	\$400.78
RCZE2GAKIT*	2	3/8	1/2	ODF	GA	\$432.90
RCZE3GAKIT*	3	3/8	1/2	ODF	GA	\$336.20
RCZE4GAKIT*	4	1/2	1/2	ODF	GA	\$336.20
RCZE5GAKIT*	5	1/2	5/8	ODF	GA	\$336.20
RCZE6GAKIT*	6	1/2	5/8	ODF	GA	\$432.90

AWEF factors for TEVs guide pages 1444-1446



Air Conditioning, Heat Pump

GA, CP60, CP100

Refrigeration

C: +50°F to -10°F

Z, ZP, ZP40: 0°F to -40°F

X: -40°F to -100°F

L = Liquid

L2 = Desuperheating

"P" limits pressure at refrigerant standard or noted value for system protection



RCVE2GAS

RC SERIES, R22

- Use with refrigerants R22, R407A, R407C
- KIT suffix: sweat kit that includes one chatleff and one aeroquip connector



Part No.	Tons	Connection (In.)		Type	Thermostatic Charge	Price
		Inlet	Outlet			
RCVE2GAS*	2	3/8	1/2	ODS	GA	\$248.54
RCVE2GAF*	2	3/8	1/2	Flare	GA	\$327.54
RCVE3GAS*	3	3/8	1/2	ODS	GA	\$248.54
RCVE3GAF*	3	3/8	1/2	Flare	GA	\$327.54
RCVE4GAS*	4	1/2	1/2	ODS	GA	\$248.54
RCVE4GAF*	4	1/2	1/2	Flare	GA	\$327.54
RCVE5GAS*	5	1/2	1/2	ODS	GA	\$248.54
RCVE5GAF*	5	1/2	1/2	Flare	GA	\$327.54
RCVE6GAS*	6	1/2	1/2	ODS	GA	\$327.54
RCVE6GAF*	6	1/2	1/2	Flare	GA	\$327.54
RCVE2GAKIT*	2	3/8	1/2	ODS	GA	\$280.62
RCVE3GAKIT*	3	3/8	1/2	ODS	GA	\$280.62
RCVE4GAKIT*	4	1/2	1/2	ODS	GA	\$280.62
RCVE5GAKIT*	5	1/2	1/2	ODS	GA	\$280.62



ERZE8GA

R SERIES, R410A

An externally adjustable balanced port valve. They are ideally suited for replacement of OEM types I, RI, BI, and BBI valves as well as other heat pump or cooling applications. They may be applied in bi-directional applications. They utilize the KT45 element design.

- External equalizer: 1/4" ODF
- Connection type: ODF
- Overall length: 3.53"
- CP180 charge is air conditioning with 180 pound pressure limit for system protection
- For heat pump use, an external check valve is necessary. The valve does not have an internal check.



Part No.	Tons	Connection (In.)		Thermostatic Charge	Price
		Inlet	Outlet		
ERZE2GA*	2	3/8	1/2	GA	\$249.48
ERZE3GA*	3	3/8	1/2	GA	\$249.48
ERZE4GA*	4	3/8	1/2	GA	\$249.48
ERZE5GA*	5	3/8	1/2	GA	\$244.88
ERZE6GA*	6	1/2	5/8	GA	\$244.88
ERZE8GA*	8	5/8	7/8	GA	\$353.90
ERZE8GA-B15*	8	5/8	7/8	GA	\$417.64
ERZE8CP180*	8	5/8	7/8	CP180	\$368.38
ERZE12-1/2GA*	12 1/2	5/8	7/8	GA	\$353.90
ERZE12-1/2GA-B15*	12 1/2	5/8	7/8	GA	\$417.64
ERZE12-1/2CP180*	12 1/2	5/8	7/8	CP180	\$368.38
ERZE15GA*	15	5/8	1 1/8	GA	\$353.90
ERZE15GA-B15*	15	5/8	1 1/8	GA	\$425.48

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VALVES

BALANCED PORT TXV

R SERIES, R410A (CONT'D.)



Part No.	Tons	Connection (In.)		Thermostatic Charge	Price
		Inlet	Outlet		
ERZE15CP180*	15	5/8	1 1/8	CP180	\$368.38
ERZE12-1/2GA 5X9*	12 1/2	5/8	1 1/8	GA	\$353.90



HXCAECHAT

UNIVERSAL TEV REPLACEMENT KIT

Sporlan's Universal TEV Replacement Kits come packaged with everything AC technicians need to complete the installation:

- TEV with ODF connections

- Adaptors that fit the most common evaporator inlets (Chatleff and Aero-style)
- Bulb strap
- Bulb insulation tape

Since most of today's residential equipment utilizes Chatleff connections on the indoor coil, Sporlan also offers a Chatleff TEV kit, saving the cost of the extra adaptors. Each valve comes with a 30" long capillary tube equalizer with flare nut. The single pushrod balanced port design ensures precise pin/port alignment, maintaining superior superheat control at wide load conditions.

- Replaces all major residential air conditioning OEM valves
- Single Pushrod Balanced Port construction works exceptionally well under wide load conditions
- Built-in check valve allows reverse flow on heat pump application
- Easily adjustable Superheat setting
- Long lasting, durable stainless steel diaphragm and weld design
- Simply retrofit existing low grade SEER or mismatched system



HXCAE, R410A

Part No.	Tons	Connection Size (In.)			Price
		Inlet	Outlet	Type	
HXCAE3KXCHAT*	1 1/2 to 3	Male	Female	Chatleff	\$168.42
HXCAE3KX*	1 1/2 to 3	3/8	1/2	ODF	\$200.26
HXCAE6KXCHAT*	3 1/2 to 5	Male	Female	Chatleff	\$168.42
HXCAE6KX*	3 1/2 to 5	3/8	1/2	ODF	\$200.26

HXCAE, R22

Part No.	Tons	Connection Size (In.)			Price
		Inlet	Outlet	Type	
HXCAE3VXCHAT*	1 1/2 to 3	Male	Female	Chatleff	\$168.42
HXCAE3VX*	1 1/2 to 3	3/8	1/2	ODF	\$200.26
HXCAE5VXCHAT*	3 1/2 to 5	Male	Female	Chatleff	\$168.42
HXCAE5VX*	3 1/2 to 5	3/8	1/2	ODF	\$200.26



HF12FC

HF SERIES

Super HF thermostatic valves feature a balanced port construction which provides stable and accurate superheat control over a wide range of operating conditions.

- External superheat adjustment
- Replaceable power element for added flexibility
- Overall height: 4 3/32"
- Connection Type: 3/8" M flare 90° inlet x 1/2" M flare out
- Bi-flow capability up to 5 1/2 tons R22 allows one valve to control the superheat in both cooling and heating modes for package unit heat pump applications
- Balanced port construction compensates for changes in operating pressures due to varying ambients, gas defrost, heat reclaim, or widely varying evaporator loads

HFF SERIES

- Use with refrigerants R409A, R134a, R401A, R12



Part No.	Tons	Connection (In.)		Thermostatic Charge	Equalizer	Price
		Inlet	Outlet			
HF1/2FC*	1/2	3/8	1/2	C	Internal	\$143.94
HF1/2FZ*	1	3/8	1/2	Z	Internal	\$143.94
HF1FC*	1/2	3/8	1/2	C	Internal	\$143.94
HF2FC*	2	3/8	1/2	C	Internal	\$143.94
HFE1/4FC*	1/4	3/8	1/2	C	1/4 SAE	\$156.88
HFE1/2FC*	1/2	3/8	1/2	C	1/4 SAE	\$156.88
HFE1FC*	1	3/8	1/2	C	1/4 SAE	\$156.88
HFE1-1/2FC*	1 1/2	3/8	1/2	C	1/4 SAE	\$156.88
HFE2FC*	2	3/8	1/2	C	1/4 SAE	\$156.88
HFE3-1/2FC*	3 1/2	3/8	1/2	C	1/4 SAE	\$160.60

HFH SERIES

- Use with refrigerants R22, R407A, R407C



Part No.	Tons	Connection (In.)		Thermostatic Charge	Equalizer	Price
		Inlet	Outlet			
HF1/4HC*	1/4	3/8	1/2	C	Internal	\$143.94
HF1/2HC*	1/2	3/8	1/2	C	Internal	\$143.94
HF1HC*	1	3/8	1/2	C	Internal	\$143.94
HF1-1/2HC*	1 1/2	3/8	1/2	C	Internal	\$143.94
HF2HC*	2	3/8	1/2	C	Internal	\$143.94
HF212HC*	2 1/2	3/8	1/2	C	Internal	\$136.44
HF3HC*	3	3/8	1/2	C	Internal	\$143.94
HFE1/4HC*	1/4	3/8	1/2	C	1/4 SAE	\$156.88
HFE1/2HC*	1/2	3/8	1/2	C	1/4 SAE	\$156.88
HFE1/2HZ*	1/2	3/8	1/2	Z	1/4 SAE	\$156.88
HFE1HC*	1	3/8	1/2	C	1/4 SAE	\$156.88
HFE1HZ*	1	3/8	1/2	Z	1/4 SAE	\$156.88
HFE1-1/2HC*	1 1/2	3/8	1/2	C	1/4 SAE	\$156.88

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AWEF factors for TEVs guide pages 1444-1446

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HFH SERIES (CONT'D.)



		Connection (In.)				
Part No.	Tons	Inlet	Outlet	Thermostatic Charge	Equalizer	Price
HFE1-1/2HZ*	1 1/2	3/8	1/2	Z	1/4 SAE	\$156.88
HFE2HC*	2	3/8	1/2	C	1/4 SAE	\$156.88
HFE2HZ*	2	3/8	1/2	Z	1/4 SAE	\$156.88
HFE2-1/2HC*	2 1/2	3/8	1/2	C	1/4 SAE	\$156.88
HFE3HC*	3	3/8	1/2	C	1/4 SAE	\$164.50
HFE3HZ*	3	3/8	1/2	Z	1/4 SAE	\$164.50
HFE5-1/2HC*	5 1/2	3/8	1/2	C	1/4 SAE	\$160.60



HF1-12RC

HFR SERIES

- Use with refrigerants R404A, R408A, R502



		Connection (In.)				
Part No.	Tons	Inlet	Outlet	Thermostatic Charge	Equalizer	Price
HF1/4RC*	1/4	3/8	1/2	C	Internal	\$143.94
HF1/4RZ*	1/4	3/8	1/2	Z	Internal	\$143.94
HF1/2RC*	1/2	3/8	1/2	C	Internal	\$143.94
HF1/2RZ*	1/2	3/8	1/2	Z	Internal	\$143.94
HF1RC*	1	3/8	1/2	C	Internal	\$143.94
HF1-1/2RC*	1 1/2	3/8	1/2	C	Internal	\$143.94
HF2RC*	2	3/8	1/2	C	Internal	\$143.94
HF3-1/2RC*	3 1/2	3/8	1/2	C	Internal	\$143.94
HFE1/4RC*	1/4	3/8	1/2	C	1/4 SAE	\$156.88
HFE1/2RC*	1/2	3/8	1/2	C	1/4 SAE	\$156.88
HFE1/2RZ*	1/2	3/8	1/2	Z	1/4 SAE	\$156.88
HFE1RC*	1	3/8	1/2	C	1/4 SAE	\$156.88
HFE1RW45*	1	3/8	1/2	W45	1/4 SAE	\$156.88
HFE1RZ*	1	3/8	1/2	Z	1/4 SAE	\$156.88
HFE1-1/2RC*	1 1/2	3/8	1/2	C	1/4 SAE	\$156.88
HFE1-1/2RZ*	1 1/2	3/8	1/2	Z	1/4 SAE	\$156.88
HFE2RC*	2	3/8	1/2	C	1/4 SAE	\$156.88
HFE2RZ*	2	3/8	1/2	Z	1/4 SAE	\$156.88
HFE3-1/2RC*	3 1/2	3/8	1/2	C	1/4 SAE	\$160.60
HFE3-1/2RZ*	3 1/2	3/8	1/2	Z	1/4 SAE	\$160.60



HFE1-12SZ

HFS SERIES

- Use with refrigerants R404A, R502



		Connection Size (In.)				
Part No.	Tons	Inlet	Outlet	Thermostatic Charge	Equalizer	Price
HFE1-1/2SZ*	1 1/2	3/8 MFL 90° inlet	1/2 MFL Outlet	Z	1/4 SAE	\$177.72
HFE2SC*	2	3/8 MFL 90° inlet	1/2 MFL Outlet	C	1/4 SAE	\$168.46



HFSE1_2FC

HFES SERIES

Super HF thermostatic expansion valves feature a balanced port construction which provides stable and accurate superheat control over a wide range of operating conditions.

- External superheat adjustment
- Replaceable power element for added flexibility
- Bi-flow capability up to 5 1/2 tons R22 allows one valve to control the superheat in both cooling and heating modes for package unit heat pump applications
- Balanced port construction compensates for changes in operating pressures due to varying ambients, gas defrost, heat reclaim, or widely varying evaporator loads
- Overall height: 4 1/32"
- Overall width: 5"
- Connection: 3/8" ODF inlet x 1/2" ODF outlet
- External equalizer: 1/4" ODF

HFESF SERIES

- Use with refrigerants R409A, R134a, R401A, R12



		Connection (In.)				
Part No.	Tons	Inlet	Outlet	Thermostatic Charge	Equalizer	Price
HFES1/2FC*	1/2	3/8	1/2	C	1/4 ODF	\$177.72
HFES1FC*	1	3/8	1/2	C	1/4 ODF	\$177.72

AWEF factors for TEVs guide pages 1444-1446



Key

C, CA, AA = -20°F to 50°F Medium Temperature
 Z = -50°F to 10°F Low Temperature
 W15 = -50°F to 0°F, 15 Lb. Limit
 W45 = -50°F to 0°F, 45 Lb. Limit
 W195 = -20°F to 50°F, 195 Lb. Limit, Air Conditioning

*WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

VALVES

BALANCED PORT TXV

HFESH SERIES

- Use with refrigerants R22, R407A, R407C



		Connection (In.)				
Part No.	Tons	Inlet	Outlet	Thermostatic Charge	Equalizer	Price
HFES1/4HC*	1/4	3/8	1/2	C	1/4 ODF	\$177.72
HFES1/2HC*	1/2	3/8	1/2	C	1/4 ODF	\$177.72
HFES1/2HZ*	1/2	3/8	1/2	Z	1/4 ODF	\$177.70
HFES1HC*	1	3/8	1/2	C	1/4 ODF	\$177.72
HFES1HZ*	1	3/8	1/2	Z	1/4 ODF	\$194.74
HFES1-1/2HC*	1 1/2	3/8	1/2	C	1/4 ODF	\$177.72
HFES2HC*	2	3/8	1/2	C	1/4 ODF	\$177.72
HFES2-1/2HC*	2 1/2	3/8	1/2	C	1/4 ODF	\$177.72
HFES5-1/2HC*	5 1/2	3/8	1/2	C	1/4 ODF	\$177.72
HFES5-1/2HCA*	5 1/2	3/8	1/2	CA	1/4 ODF	\$177.72
HFES10HC*	10	3/8	1/2	C	1/4 ODF	\$231.34

HFESR SERIES

- Use with refrigerants R404A, R408A, R502



		Connection (In.)				
Part No.	Tons	Inlet	Outlet	Thermostatic Charge	Equalizer	Price
HFES1/4RC*	1/4	3/8	1/2	C	1/4 ODF	\$177.72
HFES1/2RC*	1/2	3/8	1/2	C	1/4 ODF	\$177.72
HFES1/2RZ*	1/2	3/8	1/2	Z	1/4 ODF	\$177.72
HFES1RC*	1	3/8	1/2	C	1/4 ODF	\$177.72
HFES1RZ*	1	3/8	1/2	Z	1/4 ODF	\$177.72
HFES1-1/2RC*	1 1/2	3/8	1/2	C	1/4 ODF	\$177.72
HFES1-1/2RZ*	1 1/2	3/8	1/2	Z	1/4 ODF	\$177.72
HFES2RC*	2	3/8	1/2	C	1/4 ODF	\$177.72
HFES2RW45*	2	3/8	1/2	W45	1/4 ODF	\$175.28
HFES2RZ*	2	3/8	1/2	Z	1/4 ODF	\$177.72
HFES3-1/2RC*	3 1/2	3/8	1/2	C	1/4 ODF	\$177.72
HFES5RC*	5	3/8	1/2	C	1/4 ODF	\$177.72

HFESS SERIES

- Use with refrigerants R404A, R408A, R502



		Connection (In.)				
Part No.	Tons	Inlet	Outlet	Thermostatic Charge	Equalizer	Price
HFES1/2SZ*	1/2	3/8	1/2	Z	1/4 ODF	\$177.72
HFES1SC*	1	3/8	1/2	C	1/4 ODF	\$177.72
HFES1SZ*	1	3/8	1/2	Z	1/4 ODF	\$177.72
HFES1-1/2SZ*	1 1/2	3/8	1/2	C	1/4 ODF	\$177.72
HFES1-1/2SZ*	1 1/2	3/8	1/2	Z	1/4 ODF	\$177.72
HFES2SC*	2	3/8	1/2	C	1/4 ODF	\$177.72
HFES2SZ*	2	3/8	1/2	Z	1/4 ODF	\$177.72
HFES5SC*	5	5/8	7/8	C	1/4 ODF	\$177.72
HFES7SC*	7	5/8	7/8	C	1/4 ODF	\$177.72
HFES10SC*	10	5/8	7/8	C	1/4 ODF	\$177.72
HFES10SZ*	10	5/8	7/8	Z	1/4 ODF	\$231.34

HFESC SERIES

Super HF thermostatic expansion valves feature a balanced port construction which provides stable and accurate superheat control over a wide range of operating conditions.

- External superheat adjustment
- Replaceable power element for added flexibility
- Bi-flow capability up to 5 1/2 tons R22 allows one valve to control the superheat in both cooling and heating modes for package unit heat pump applications
- Balanced port construction compensates for changes in operating pressures due to varying ambients, gas defrost, heat reclaim, or widely varying evaporator loads
- Optional, removable, 100 mesh strainer allows cleaning without removing valve from line
- Overall height: 4 1/32"
- Connection: 3/8" ODF 90° inlet x 1/2" ODF outlet
- External equalizer: 1/4" ODF



HFESC

HFESCM SERIES

- Use with refrigerants R409A, R134a, R401A, R12



		Connection (In.)				
Part No.	Tons	Inlet	Outlet	Thermostatic Charge	Equalizer	Price
HFESC1-1/2MC*	1 1/2	3/8	1/2	C	1/4 ODF	\$211.70



Key

C, CA, AA = -20°F to 50°F Medium Temperature
 Z = -50°F to 10°F Low Temperature
 W15 = -50°F to 0°F, 15 Lb. Limit
 W45 = -50°F to 0°F, 45 Lb. Limit
 W195 = -20°F to 50°F, 195 Lb. Limit, Air Conditioning

*WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov



HFESC2-1/2HC

HFESCH SERIES

- Use with refrigerants R22, R407A, R407C



		Connection (In.)				
Part No.	Tons	Inlet	Outlet	Thermostatic Charge	Equalizer	Price
HFESC1/2HC*	1/2	3/8	1/2	C	1/4 ODF	\$211.70
HFESC1-1/2HC*	1 1/2	3/8	1/2	C	1/4 ODF	\$211.70
HFESC1-1/2HZ*	1 1/2	3/8	1/2	Z	1/4 ODF	\$211.70
HFESC2HC*	2	3/8	1/2	C	1/4 ODF	\$211.70
HFESC2HZ*	2	3/8	1/2	Z	1/4 ODF	\$211.70
HFESC2-1/2HC*	2 1/2	3/8	1/2	C	1/4 ODF	\$211.70
HFESC3HC*	3	3/8	1/2	C	1/4 ODF	\$211.70
HFESC5-1/2HC*	5 1/2	3/8	1/2	C	1/4 ODF	\$211.70



HFESC1RW45

HFESCR SERIES

- Use with refrigerants R404A, R408A, R502



		Connection (In.)				
Part No.	Tons	Inlet	Outlet	Thermostatic Charge	Equalizer	Price
HFESC1/2RZ*	1/2	3/8	1/2	Z	1/4 ODF	\$211.70
HFESC1RC*	1	3/8	1/2	C	1/4 ODF	\$211.70
HFESC1RW45*	1	3/8	1/2	W45	1/4 ODF	\$211.70
HFESC1RZ*	1	3/8	1/2	Z	1/4 ODF	\$211.70
HFESC112RW45*	1 1/2	3/8	1/2	W45	1/4 ODF	\$542.34
HFESC2RC*	2	3/8	1/2	C	1/4 ODF	\$211.70
HFESC2RZ*	2	3/8	1/2	Z	1/4 ODF	\$211.70
HFESC2RW45*	2	3/8	1/2	W45	1/4 ODF	\$210.18
HFESC312RW45*	3 1/2	3/8	1/2	W45	1/4 ODF	\$200.70



TRAE10HC

TRAE+ SERIES

The TRAE+ thermostatic expansion valve is a large capacity series designed for refrigeration and air conditioning applications. The new series introduces a new replaceable stainless steel power element, a fully interchangeable cage assembly and a square body. This valve type features double balanced port design which provides stable and accurate control over wide loads and evaporator temperature ranges.

- Removable power element and cage assembly for full serviceability
- Stainless steel power element for enhanced corrosion resistance
- Connection: ODF inlet x ODF outlet
- External equalizer: 1/4" ODF
- Thermostatic charge: HC for air conditioning applications or HCA optimized for heat pump applications
- Capillary length in feet
- Use with refrigerants R22, R407A, R407C



		Connection (In.)				
Part No.	Tons	Inlet	Outlet	Thermostatic Charge	Equalizer	Price
TRAE+10HC*	10	5/8	7/8	HC	1/4 ODF	\$359.96
TRAE+10HCA*	10	5/8	7/8	HCA	1/4 ODF	\$359.96
TRAE+15HC*	15	7/8	1 1/8	HC	1/4 ODF	\$359.96
TRAE+15HCA*	15	7/8	1 1/8	HCA	1/4 ODF	\$359.96
TRAE+20HC-7X9*	20	7/8	1 1/8	HC	1/4 ODF	\$428.44
TRAE+20HC*	20	7/8	1 3/8	HC	1/4 ODF	\$428.44
TRAE+20HCA*	20	7/8	1 1/8	HCA	1/4 ODF	\$428.44
TRAE+30HC*	30	1 1/8	1 3/8	HC	1/4 ODF	\$428.44



TRAE60HC

TRAE SERIES

The larger TRAE valves have a fixed stainless steel power assembly, a permanent cage assembly, and a balanced port design.

- Suitable for bi-flow application
- Connection: ODF inlet x ODF outlet
- External equalizer: 1/4" ODF
- Use with refrigerants R22, R407A, R407C



		Connection (In.)				
Part No.	Tons	Inlet	Outlet	Thermostatic Charge	Equalizer	Price
TRAE60HC*	60	1 1/8	1 3/8	HC	1/4 ODF	\$910.40
TRAE70HC*	70	1 1/8	1 3/8	HC	1/4 ODF	\$910.40



Key

C, CA, AA = -20°F to 50°F Medium Temperature
 Z = -50°F to 10°F Low Temperature
 W15 = -50°F to 0°F, 15 Lb. Limit
 W45 = -50°F to 0°F, 45 Lb. Limit
 W195 = -20°F to 50°F, 195 Lb. Limit, Air Conditioning

*WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

BALANCED PORT TXV



X26300HC1

POWER HEAD

- Replacement power element for HF(E) thermostatic expansion valve



Part No.	Refrigerant Class	Thermostatic Charge	Capillary Length	Price
X26300FC1*	R12/134a	C	5'	\$66.94
X26300FW351*	R12/134a	FW35	5'	\$66.94
X26300FZ1*	R12/134a	Z	5'	\$66.94
X26300HC1*	R22	C	5'	\$66.94
X26300HCA1*	R22	C	5'	\$66.94
X26300HW1001*	R22	W100	5'	\$66.94
X26300HZ1*	R22	Z	5'	\$66.94
X26300MC1*	R134a	C	5'	\$66.94
X26300SW451*	R404A	W45	5'	\$66.94
X26300SZ1*	R404A	Z	5'	\$66.94



067L5958

TR6 SERIES

The TR design incorporates a hot-pressed brass body with the entire power element, including the capillary tube and bulb, fabricated from stainless steel. These offer high corrosion resistance, high strength and vibration resistance fast

installation and good thermal contact and transmission.

All valves are designed with balanced port which reduces the influence from varying condensing pressures

Laser-welded power element: longer diaphragm life.

High pressure tolerance and working pressure.

The Danfoss TR6 thermostatic expansion valve helps OEMs meet energy challenges by enabling air-conditioning systems to match a cooling demand at any given time. In designs without a TXV, refrigerant flow is regulated by a fixed orifice. Because the size of the orifice remain constant, the flow of refrigerant remains the same regardless of the cooling demand on the system. The result: only average efficiency. The TR6 design includes a number of features to ensure a long life of efficient service. The sensing bulb charge is carefully optimized for residential air-conditioning. The power element, containing the sensitive valve diaphragm that operates the valve, is laser welded. Because there is much less heat input with laser welding than with traditional plasma welding, the integrity of the diaphragm is not compromised. Danfoss is a pioneer in the use of laser welding, which is also a much cleaner process.

- Includes Chatleff and Aeroquip adapters
- Flare connection converters included
- Compact, rugged design
- Available thermostatic charge: +50°F to +14°F



R22

Part No.	Tons	Connection Size (In.)			Equalizer	Price
		Inlet	Outlet	Type		
067L5856*	1 to 2	3/8	3/8	ODS	1/4 F Flare	\$185.52
067L5857*	2 1/2 to 3	3/8	3/8	ODS	1/4 F Flare	\$185.52
067L5858*	3 1/2 to 4	3/8	3/8	ODS	1/4 F Flare	\$185.52
067L5859*	5 to 6	3/8	3/8	ODS	1/4 F Flare	\$185.52

R410A

Part No.	Tons	Connection Size (In.)			Equalizer	Price
		Inlet	Outlet	Type		
067L5955*	3	3/8	3/8	ODS	1/4 F Flare	\$185.52
067L5956*	4	3/8	3/8	ODS	1/4 F Flare	\$185.50
067L5957*	5	3/8	3/8	ODS	1/4 F Flare	\$185.50

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Key

- C, CA, AA = -20°F to 50°F Medium Temperature
 Z = -50°F to 10°F Low Temperature
 W15 = -50°F to 0°F, 15 Lb. Limit
 W45 = -50°F to 0°F, 45 Lb. Limit
 W195 = -20°F to 50°F, 195 Lb. Limit, Air Conditioning

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CARTRIDGE STYLE TXV

"Q" BODY

The brass body type Q, EQ, BQ and SQ are replaceable cartridge style valves, whereby a cartridge can be selected to match the system capacity and installed in the valve body. All share identical internal construction and provide external adjustments. These valves are all designed for small refrigeration systems such as refrigerated cases, coolers, and freezers. The externally equalized versions of these valves may be used on air conditioning and heat pump systems, the EQ body is specifically targeted for this application. To use a Q body valve, select the appropriate body style, the cartridge that provides the appropriate capacity for the refrigerant and application you are using (QC* for standard port, BQC* for balanced port) and the KT43 (KT45 for R410A) power element.

- Overall height: 3.93" with powerhead
- Strainer at inlet



QBODY2X3F

FLARE BODY

- Connection: M flare 90° inlet x M flare outlet
- Uses QC cartridge



Part No.	Connection Size (In.)		Equalizer	Price
	Inlet	Outlet		
QBODY2X3F*	1/4	3/8	Internal	\$93.10
QBODY2X4F*	1/4	1/2	Internal	\$93.10
QBODY3X4F*	3/8	1/2	Internal	\$93.10
QEBODY2X3F*	1/4	3/8	1/4 SAE	\$157.52
QEBODY2X4F*	1/4	1/2	1/4 SAE	\$107.12
QEBODY3X4F*	3/8	1/2	1/4 SAE	\$107.12



BQBODY2X4F

FLARE BODY/BALANCED PORT

- Q body in a balanced port design
- Connection: M flare 90° inlet x M flare outlet
- Uses BQC cartridge



Part No.	Connection Size (In.)		Equalizer	Price
	Inlet	Outlet		
BQBODY2X4F*	1/4	1/2	Internal	\$90.38
BQBODY3X4F*	3/8	1/2	Internal	\$90.38
BQEBODY2X4F*	1/4	1/2	1/4 SAE	\$104.00
BQEBODY3X4F*	3/8	1/2	1/4 SAE	\$104.00



SBQBODY3X4

ODF BODY/BALANCED PORT

- SQ body in a balanced port design
- Connection: ODF 90° inlet x ODF outlet
- Uses BQC cartridge



Part No.	Connection Size (In.)		Equalizer	Price
	Inlet	Outlet		
SBQBODY3X4*	3/8	1/2	Internal	\$108.30
SBQEBODY3X4*	3/8	1/2	1/4 ODF	\$124.54



SQBODY3X4

ODF BODY

- Connection: ODF 90° inlet x ODF outlet
- Replaceable strainer at inlet
- Equalizer connection towards bottom cap
- Uses QC cartridge



Part No.	Connection Size (In.)		Equalizer	Price
	Inlet	Outlet		
SQBODY3X4*	3/8	1/2	Internal	\$111.54
SQEBODY2X4*	1/4	1/2	1/4 ODF	\$195.30
SQEBODY3X4*	3/8	1/2	1/4 ODF	\$128.30



EQBODY3X4S

ODF BODY, EXTENDED ENDS

- Connection: ODF inlet x ODF outlet extended ends
- 877 strainer
- Equalizer connection towards bottom cap
- Uses QC cartridge



Part No.	Connection Size (In.)		Equalizer	Overall W (In.)	Price
	Inlet	Outlet			
EQBODY2X3*	1/4	3/8	Internal	4.98	\$110.32
EQBODY2X4*	1/4	1/2	Internal	4.98	\$110.32
EQBODY3X4S*	3/8	1/2	Internal	4.98	\$110.32
EQBODY3X5S*	3/8	5/8	Internal	4.98	\$162.32
EQBODY4X5S*	1/2	5/8	Internal	4.9	\$162.32
EQEBODY2X3*	1/4	3/8	1/4 ODF	4.98	\$126.84
EQEBODY2X4*	1/4	1/2	1/4 ODF	4.98	\$126.84
EQEBODY3X4S*	3/8	1/2	1/4 ODF	4.98	\$126.84
EQEBODY3X5S*	3/8	5/8	1/4 ODF	4.98	\$186.54
EQEBODY4X5S*	1/2	5/8	1/4 ODF	4.9	\$126.84
EQEBODY4X7S*	1/2	7/8	1/4 ODF	4.81	\$126.84



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VALVES

CARTRIDGE STYLE TXV



EBQBODY3X4

ODF BODY, EXTENDED ENDS, BALANCED PORT

- EQ body in a balanced port design
- Connection: ODF 90 inlet x ODF outlet extended ends
- Uses BQC cartridge



Part No.	Connection Size (In.)			Price
	Inlet	Outlet	Equalizer	
EBQBODY2X3*	1/4	3/8	Internal	\$107.10
EBQBODY3X4*	3/8	1/2	Internal	\$107.10
EBQBODY3X5*	3/8	5/8	Internal	\$154.54
EBQBODY4X5*	1/2	5/8	Internal	\$154.54
EBQBODY2X3*	1/4	3/8	1/4 ODF	\$123.10
EBQBODY3X4*	3/8	1/2	1/4 ODF	\$123.10
EBQBODY4X7*	1/2	7/8	1/4 ODF	\$123.10



BQCB

ORIFICE CARTRIDGE

Insert into body for proper refrigerant capacity.

- Requires 4mm allen wrench
- 791001: replacement O-ring
- Use BQC cartridge for balanced port valve



Part No.	Color	Capacity (Tons)			Price
		R12, R134a, R401A, R409A	R22, R407A, R407C	R404A, R408A, R502	
QC0*	Red	1/6	1/3	1/6	\$16.68
QC1*	Yellow	1/4	1/2, 3/4	1/4	\$16.68
QC2*	Green	1/2	1	1/2	\$16.68
QC3*	Blue	1	1 1/2	1	\$16.68
QC4*	Pink	1 1/2	2, 2 1/2	1 1/2	\$16.68
QC5*	Black	2	3	2	\$16.68
QC6*	White	2 1/2	5	3	\$16.68
BQCAAA*	Red	1/8 to 1/5	1/8 to 1/3	1/8 to 1/5	\$39.54
BQCAA*	Yellow	1/4 to 1/3	1/2 to 2/3	1/4 to 1/3	\$39.54
BQCA*	Blue	1/2 to 1	3/4 to 1 1/2	1/2 to 1	\$39.54
BQCAA-BP15*	Yellow	1/4 to 1/3	1/2 to 2/3	1/4 to 1/3	\$50.84
BQCA-BP15*	Blue	1/2 to 1	3/4 to 1 1/2	1/2 to 1	\$50.84
BQCB*	Pink	1 1/4 to 1 3/4	1 3/4 to 3	1 1/4 to 2	\$39.54
BQCB-BP15*	Pink	1 1/4 to 1 3/4	1 3/4 to 3	1 1/4 to 2	\$50.84
BQCC*	White	2 to 3	3 1/4 to 5 1/2	2 1/4 to 3	\$39.54
BQCC-BP15*	White	2 to 3	3 1/4 to 5 1/2	2 1/4 to 3	\$50.84

ACCESSORIES



184000



Part No.	Description	Price
184000*	(1) 4mm Allen Wrench, (1) Bottle Oil	\$510.96
184007*	(1) BQ Cartridge Tool, (1) Bottle Oil	\$614.58
AW1*	Replacement 4mm Wrench	\$8.16
OB1*	Replacement Oil Bottle	\$13.06
QCASE*	Case Sized for 4 Valve Bodies, 6 Elements and Cartridge Service Kit	\$133.36
4444000*	BQ Cartridge Tool	\$8.16
180390*	KT43 Element Wrench	\$115.46
183367*	Adapter, 5/8" ODF x Aeroquip	\$40.26
183368*	Adapter, 1/2" ODF x Aeroquip	\$37.44
183369*	Adapter, 5/8" ODF x Chatleff	\$40.26
183370*	Adapter, 1/2" ODF x Chatleff	\$37.44
183371*	Adapter, 1/2" ODF x 3/8" SAE	\$34.40



068U4900

ICE MACHINE EXPANSION VALVE

The Danfoss universal ice machine expansion valve kit has all the valuable features of the TU valve paired with Danfoss ice machine expertise to make selection and installation easy.

- Includes stainless steel expansion valve, 3 orifices, a bulb strap, insulation tape, 2 elbow connections
- Replaceable orifice allows for capacity adaptations with a single valve, and enables access to the screen for cleaning
- Laser engraved product information for lasting identification of valve type
- Stainless steel capillary tube and bulb and laser welding for longest lasting valve in the industry
- Bimetal connections for fast and easy brazing with no wet wrap

ENGINEERING TOMORROW



Part No.	Connection (In.)		Description	Price
	Inlet	Outlet		
068U4900*	1/4	3/8	Orifice Sizes: 1, 3, 5 (Nameplates Lbs/24 Hrs per TXV Flaker/Nugger: 75 to 950, Cuber: 75 to 600)	\$204.90
068U4901*	3/8	1/2	Orifice Sizes: 5, 7, 8 (Nameplates Lbs/24 Hrs per TXV Flaker/Nugger: 501 to 950, Cuber: 351 to 1800)	\$204.90

*WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov



ODF BODY, STAINLESS STEEL, R404A

- Bimetal connections; no need for wet cloth
- Biflow function
- Compact design
- Stainless steel; high strength, suitable for foodservice and A/C applications
- Use with ORIFICE0-9



Part No.	Connection (In.)		Use with	Equalizer	Price
	Inlet	Outlet			
068U2235*	3/8	1/2	R22	Internal	\$123.44
068U2237*	3/8	1/2	R22	1/4 ODF	\$139.76
068U2284	1/4	1/2	R404A	Internal	☎
068U2285*	3/8	1/2	R404A	Internal	\$123.44
068U2286	1/4	1/2	R404A	1/4 ODF	☎
068U2287*	3/8	1/2	R404A	1/4 ODF	\$139.76
068U2205*	3/8	1/2	R134a	Internal	\$123.44
068U2207*	3/8	1/2	R134a	1/4 ODF	\$139.76



T*2 STYLE VALVES

- Compact design
- Stainless steel bulb
- Use with 0682000 series orifice
- Available thermostatic charge: -40°F to +50°F



Part No.	Connection Size (In.)		Equalizer	Price
	Inlet	Outlet		
068Z3346*	3/8	1/2	Internal	\$120.60
068Z3348*	3/8	1/2	External	\$157.40
068Z3414*	3/8	1/2	Internal	\$127.74
068Z3403*	3/8	1/2	Internal	\$157.40
068Z3415*	3/8	1/2	External	\$167.22
068Z3206*	3/8	1/2	Internal	\$120.60
068Z3209*	3/8	1/2	External	\$157.40



ORIFICE CARTRIDGE, TUA/TUAE SERIES

For TUA/TUAE cartridge style expansion valves
Insert into body for proper refrigerant capacity.
Capacities for normal range (-40°F to +50°F)

- Supplied with filter (068U0016 and gasket 068U0015)
- Gasket must be changed each time orifice is disassembled



Part No.	Capacity (Tons)			Price
	R12, R134a, R401A, R409A	R22, R407A, R407C	R404A, R408A, R502	
068U1030	0.13	0.17	0.13	\$43.82
068U1031	0.19	0.25	0.19	\$43.82
068U1032	0.28	0.36	0.28	\$43.82
068U1033	0.39	0.50	0.39	\$43.82
068U1034	0.59	0.75	0.60	\$43.82
068U1035	0.78	1.00	0.79	\$43.82
068U1036	1.20	1.50	1.20	\$43.82
068U1037	1.60	2.00	1.60	\$43.82
068U1038	2.30	3.00	2.40	\$43.82
068U1039	3.50	4.50	3.50	\$43.82
				\$3.66

Part No.	Description	Price
068U0016	Orifice Filter	\$6.20
068U0015	Orifice Gasket	\$1.22



ORIFICE CARTRIDGE, T*2/T*E2 SERIES

Insert into body for proper refrigerant capacity.
Capacities for normal range (-40°F to +50°F)

- For T*2/T*E2 cartridge style expansion valves
- Supplied with filter



Part No.	Capacity (Tons)					Price
	R134a	R404A	R22	R12	R502	
0682003*	0.25	0.21	0.3	0.2	0.2	\$21.24
0682010*	0.5	0.45	0.7	0.3	0.3	\$21.24
0682015*	0.8	0.6	1.0	0.5	0.5	\$21.24
0682006*	1.3	1.2	1.5	1.0	1.0	\$21.24
0682007*	1.9	1.7	2.3	1.5	1.5	\$21.24
0682008*	2.5	2.2	3.0	2.0	2.0	\$21.24
0682009*	3.0	2.6	4.5	3.0	3.0	\$21.24

☎ Please contact your local United Refrigeration Branch or our Customer Service Center for pricing.

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

VALVES

CARTRIDGE STYLE TXV



TXV KIT

Kits save space, inventory and cost while allowing easy replenishment of parts

068U7001

ENGINEERING
TOMORROW



Part No.	Description	Includes	Price
068U7001*	Maximizer Sweat and Flare kit	TUA/TUAE + T2/TE2	\$1,789.56

KT SERIES

To use this valve style, select the body that meets your requirements, the appropriate cage, and powerhead (X26300 style) that meets the refrigerant and capacity of your application.

- Pre-packaged service kits—Include a mix of bodies and power elements with a complete set of cages to serve the most applications with a minimum of parts
- Individual components—Bodies, cages, and power elements may be ordered separately and can be used to build personalized service kits or replenish pre-packaged kits
- All valves 4 1/32" high
- Cage kit includes cage, insertion tool and ID clips.



KT20298-1

FLARE, ANGLE BODY

Part No.	Connection Size (In.)		Equalizer	Overall L (In.)	Price
	Inlet	Outlet			
KT20298-1	1/4	1/2	Internal	3.09	\$77.28
KT20298-3*	1/4	1/2	1/4" SAE	3.09	\$77.24
KT20298-4*	3/8	1/2	1/4" SAE	3.09	\$77.24



KT20298-5

ODF, ANGLE, REMOVABLE STRAINER BODY

Part No.	Connection Size (In.)		Equalizer	Price
	Inlet	Outlet		
KT20298-5*	3/8	1/2	Internal	\$111.06
KT20298-6*	3/8	1/2	1/4" ODF	\$111.06



KT20298-8

ODF, STRAIGHT BODY

Part No.	Connection Size (In.)			Overall L (In.)	Price
	Inlet	Outlet	Equalizer		
KT20298-8*	3/8	5/8	Internal	5.00	\$61.52
KT20298-9*	1/2	5/8	Internal	5.00	\$61.52
KT20298-10*	1/2	7/8	Internal	5.00	\$61.52
KT20298-12*	3/8	5/8	1/4" ODF	5.00	\$77.22
KT20298-13*	1/2	5/8	1/4" ODF	5.00	\$77.22
KT20298-14*	1/2	7/8	1/4" ODF	5.00	\$77.22



KT20299-0

CAGE KIT

Part No.	Nominal Cap. (Tons)							Price
	R12	R22	R134a	R404A	R507	R502	R407C	
KT20299-0*	1/8	1/4	1/4	1/8	1/8	1/8	1/4	\$34.60
KT20299-1*	1/4	1/2	1/2	1/4	1/4	1/4	1/2	\$34.60
KT20299-2*	1/2	1	3/4	1/2	1/2	1/2	1	\$34.60
KT20299-3	1	1 1/2	1	1	1	1	1 1/2	\$34.60
KT20299-4*	1 1/4	2	1 1/2	1 1/4	1 1/4	1 1/4	2	\$34.60
KT20299-5*	1 1/2	2 1/2	1 3/4	1 1/2	1 1/2	1 1/2	2 1/2	\$34.60
KT20299-6*	2	3	2 1/2	2	2	2	3	\$34.60
KT20299-7*	3 1/2	5 1/2	4	3 1/2	3 1/2	3 1/2	5 1/2	\$34.60



*WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov



TCLE7-1/2HC

MODULAR "T" SERIES

Emerson take-a-part Series TEVs, with adjustable superheat and replaceable/interchangeable components, are ideal for original equipment and field replacements in air conditioning, heat pump, and refrigeration applications. Each

is equipped with a standard ALCO C charge which functions for evaporator temperatures from 50°F to -20°F.

- Interchangeable, replaceable cages for TEV versatility
- External superheat adjustment
- Interchangeable body flanges for any connection you need
- Bi-flo capability
- Overall height with flanges: $\leq 3 \frac{45}{64}$ " straight thru, $\leq 4 \frac{53}{64}$ " angl
- Stainless steel power assembly
- Capillary tube length: 5'
- External equalizer: 1/4" SAE
- Includes powerhead and cage assembly
- Select flange separately
- Use with C5000 Series angle, 97610 Series straight ODF, X66690 Series straight SAE flange

TCLEF SERIES

- Use with refrigerants R409A, R134a, R401A, R12



Part No.	Nominal Tons	Cage Included	Price
TCLE1FC*	1	X22440B3B	\$334.36
TCLE2FC*	2	X22440B4B	\$334.36
TCLE3FC*	3	X22440B5B	\$334.36
TCLE4FC*	4	X22440B6B	\$334.36
TCLE6-1/2FC*	6 1/2	X22440B7B	\$334.36
TCLE7-1/2FC*	7 1/2	X22440B8B	\$334.36

TCLEH SERIES

- Use with refrigerants R22, R407A, R407C



Part No.	Nominal Tons	Cage Included	Price
TCLE1HC*	1	X22440B2B	\$334.36
TCLE2HC*	2	X22440B3B	\$334.36
TCLE3HC*	3	X22440B4B	\$334.36
TCLE5HC*	5	X22440B5B	\$334.36
TCLE7-1/2HC*	7 1/2	X22440B6B	\$334.36
TCLE10HC*	10	X22440B7B	\$334.36
TCLE12HC*	12	X22440B8B	\$334.36

*HCA Charge For Air Conditioning



TJLE14HC

TJ SERIES

- Capillary length: 5'
- Use with refrigerants R22, R407A, R407C
- Overall height: $\leq 5 \frac{23}{64}$ " straight thru with flange, $\leq 5 \frac{1}{2}$ " angl
- Flanges not included



Part No.	Nominal Tons	Cage Included	Price
TJLE14HC*	14	XC724B5B	\$421.70
TJRE14HC*	14	X11873B4B	\$622.40
TJRE18HC*	18	X11873B5B	\$622.40



TER22HC

T*R SERIES

- Capillary length: 10'
- Use with refrigerants R22, R407A, R407C
- Overall height: $\leq 5 \frac{29}{64}$ " straight thru with flange, ≤ 6 " angl
- Flanges not included



Part No.	Nominal Tons	Cage Included	Price
TER22HC*	22	X9117B6B	\$828.22
TER26HC*	26	X9117B7B	\$828.22
TER35HC*	35	X9117B8B	\$828.22
TER45HC*	45	X9117B9B	\$828.22
THR75HC*	75	X9144B11B	\$1,255.62
TIR55HC*	55	X9166B10B	\$1,255.62



X22440B5B

CAGE ASSEMBLY

- Used with various take-a-part expansion valve assemblies and regulators
- B-suffix part numbers for external equalizer
- A-suffix part number for internal equalizer



- Nominal capacities in tons of refrigeration

Part No.	Use with	Nominal Cap. (Tons)			Price
		R134a	R22	R404A	
X22440B1B*	TCLE	1/4	1/2	1/4	\$70.44
X22440B2B*	TCLE	3/4	1	1/2	\$70.44
X22440B3B*	TCLE	1 1/2	2	1	\$70.44
X22440B4B*	TCLE	2 1/2	3	2	\$70.44
X22440B5B*	TCLE	3 1/2	5	3	\$70.44
X22440B6B*	TCLE	5 1/2	7 1/2	4 1/2	\$70.44
X22440B7B*	TCLE	7 1/2	10	7	\$70.44
X22440B8B*	TCLE	9	12	8	\$70.44
XC724B4B*	TJLE	9	11	7	\$122.10
XC724B5B*	TJLE	11	14	9	\$122.10
X11873B5B*	TJR	13	18	12	\$127.96
X9117B6B*	TER	16	22	14	\$349.98
X9117B7B*	TER	19	26	16	\$349.98
X9117B8B*	TER	25	35	21	\$349.98

Continued...

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VALVES

CARTRIDGE STYLE TXV

CAGE ASSEMBLY (CONT'D.)

Part No.	Use with	Nominal Cap. (Tons)			Price
		R134a	R22	R404A	
X9117B9B*	TER	31	45	27	\$349.98
X9166B10B*	TIR	45	55	37	\$695.16
X9144B11B*	THR	46	70	42	\$744.02
X9144B13B*	THR	56	85	51	\$744.02

Part No.	Description	Price
X134551	Gasket Strip, T, ZZ Series Valves	\$6.80

POWER ASSEMBLY

- Use XC726 power assembly on TER, TIR, THR, TMR expansion valves

Part No.	Refrigerant Class	Thermostatic Charge	Capillary Length	Price
XC726FC2B*	R12	C	10'	\$693.66
XC726HC2B*	R22	C	10'	\$693.66
XC726RC2B*	R502	C	10'	\$693.66
XC726SC2B*	R404A	C	10'	\$693.66



XB1019HC1B

POWER ASSEMBLY

- Use XB1019 and XB8019 power assembly on TCL, TCLE, TJLE, TJRE expansion valves

Part No.	Refrigerant Class	Thermostatic Charge	Capillary Length	Price
XB1019FC1B*	R12	C	5'	\$241.86
XB1019FC2B*	R12	C	10'	\$241.86
XB1019HC1B*	R22	C	5'	\$241.86
XB1019HZ2B*	R22	Z	10'	\$241.86
X8019HWS1B*	R22	-10°F to +50°F	5'	\$313.10
X8019HWS2B*	R22	-10°F to +50°F	10'	\$360.46
XB1019RC1B*	R502	C	5'	\$241.86
XB1019SC1B*	R502	C	5'	\$241.86
XB1019RW351B*	R502	-50°F to +5°F	5'	\$241.86



C5005

ANGLE FLANGE

- For take-a-part thermostatic expansion valves
- Available in SAE M flare and sweat ODF
- 7/8" ODF fitting machined for 1 1/8" ODM

Part No.	Use with	Connection Size (In.)			Price
		Inlet	Outlet	Type	
C5004*	TCL(E)	3/8	1/2	Flare	\$37.98
C5005*	TCL(E)	3/8	5/8	Flare	\$37.98
C5006*	TCL(E)	1/2	5/8	Flare	\$37.98
C5014*	TCL(E)	3/8	1/2	ODF	\$38.66
C5015*	TCL(E)	3/8	5/8	ODF	\$38.66
C5017*	TCL(E)	1/2	5/8	ODF	\$38.66
9149*	CPHE6, THR	1 1/8	1 1/8	ODM	\$114.52
9151FLG* ¹	CPHE5, TIR	7/8	7/8	ODF	\$117.38
9153FLG* ¹	CPHE4, TER	7/8	7/8	ODF	\$139.64

¹ 1 1/8 ODM



97613

STRAIGHT-THRU FLANGE

- Flanges are straight through configuration, offset for the larger size valves
- Available in SAE male flare and ODF solder
- 7/8" ODF fitting machined for 1 1/8" ODM

Part No.	Use with	Connection Size (In.)			Price
		Inlet	Outlet	Type	
X66694*	TCL(E)	3/8	1/2	Flare	\$46.76
X66691*	TCL(E)	3/8	5/8	Flare	\$47.84
X66695*	TCL(E)	1/2	1/2	Flare	\$47.84
X66692*	TCL(E)	1/2	5/8	Flare	\$46.76
97615*	TCL(E)	3/8	1/2	ODF	\$38.98
97613*	CPHE1, TCL(E)	3/8	5/8	ODF	\$38.98
97614*	CPHE2, TCL(E)	1/2	5/8	ODF	\$38.98
97612*	TCL(E)	1/2	7/8	ODF	\$38.98
X634616*	TCL(E)	5/8	5/8	ODF	\$38.98
X634617*	TCL(E)	5/8	7/8	ODF	\$38.98
X634618*	TCL(E)	5/8	1 1/8	ODF	\$38.98
X634634*	TCL(E)	7/8	1 1/8	ODF	\$38.98
X63472*	TJLE	5/8	1 1/8	ODF	\$132.76
X63476*	TJLE	7/8	1 1/8	ODF	\$132.76
X63477*	TJLE	7/8	1 3/8	ODF	\$132.76
9152FLG* ¹	CPHE4, TER	7/8	7/8	ODF	\$139.64
9150* ¹	CPHE5, TIR	7/8	7/8	ODF	\$117.38
9148*	CPHE6, THR	1 1/8	1 1/8	ODM	\$114.52

¹ 1 1/8 ODM

Flange Code

A = X6347 Straight, B504 Angle
C = 9152 FLG Straight, 9153 FLG Angle
E = 9150 FLG Straight, 9151 FLG Angle

B = 10332 Straight, 10331 Angle
D = 9148 FLG Straight, 9149 FLG Angle

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CHARGE ELEMENT



KT33NGA

KT33 SERIES

- Used on large capacity O Series and H Series valves



KT45

KT43 SERIES

- Used on N, RCVE, F, EF, Q Body, BF, SBF, EBF Series valves
- DSH application is desuperheating valve on bypass circuit
- KT45 fits 43 nut but is heavier construction for R410A service



Part No.	Refrigerant Class	Application	Pressure Limit (psig)	Capillary Length	Price
KT33JC*	R409A	H/T	—	5'	\$159.44
KT33JCP60*	R134a	A/C	60	5'	\$159.44
KT33FZ*	R409A	L/T	—	5'	\$159.44
KT33SC/PC*	R404A/ R507	H/T	—	5'	\$159.44
KT33SZ*	R404A	L/T	—	5'	\$159.44
KT33SZP*	R404A	L/T	45	5'	\$159.44
KT33VC*	R22	H/T	—	5'	\$159.44
KT33VCP100*	R22	A/C	100	5'	\$159.44
KT33NGA*	R407C	A/C	—	5'	\$159.44
KT33VGA10*	R22	A/C	—	10'	\$299.64
KT33VGA20*	R22	A/C	—	20'	\$299.64
KT33VN10*	R22	A/C	—	10'	\$299.64
KT33VZ*	R22	L/T	—	5'	\$159.44
KT33VZP*	R22	L/T	20	5'	\$159.44

VALVE APPLICATION	THERMOSTATIC ELEMENT		
	ITEM DESCRIPTION	ITEM NUMBER	
		30"	60"
R-134a, R-1234yf, R-513A, R-401A, R-409A, R-12			
Air Conditioning	KT-43-JCP60	180206	180312
Commercial Refrigeration	KT-43-JC	180314	180310
R-22, R-407A, R-407C, R-407F, R-448A, R-449A			
Air Conditioning	KT-43-VCP100	180270	180272
	KT-43-NGA	180292	179957
Commercial Refrigeration	KT-43-VC	180269	180319
Low Temperature Refrigeration	KT-43-VZ	180273	180323
	KT-43-VZP40	180326	180324
R-404A, R-502, R-507A, R-402A			
Air Conditioning	KT-43-SCP115	180372	180360
Commercial Refrigeration	KT-43-SC/PC	183387	183388
Low Temp. Refrigeration	KT-43-SZ	180228	180318
	KT-43-SZP	180230	180060
R-410A			
Air Conditioning	KT-45-ZGA	181209	181212
	KT-45-ZCP180	181355	181213

Part No.	Refrigerant Class	Application	Pressure Limit (psig)	Capillary Length	Price
KT43DC*	R448A	H/T	—	5'	\$84.84
KT43L1*	—	DSH	—	5'	\$149.14
KT43JC*	R134a	H/T	—	5'	\$84.84
KT43JCP60*	R134a	A/C	60	5'	\$84.84
KT43JC-30*	R134a	H/T	—	2.5'	\$79.40
KT43JZ*	R409A	L/T	—	5'	\$84.84
KT43JZP*	R134a	L/T	20	5'	\$84.84
KT43PZ*	R507	L/T	—	5'	\$84.84
KT43SC/PC*	R404A/ R507	H/T	—	5'	\$84.84
KT43SC/PC-30*	R404A/ R507	H/T	—	2.5'	\$79.40
KT43SZ*	R404A	L/T	—	5'	\$84.84
KT43SZ-30*	R404A	L/T	—	2.5'	\$79.40
KT43SZP*	R404A	L/T	45	5'	\$84.84
KT43VC*	R22	H/T	—	5'	\$84.84
KT43VC-30*	R22	H/T	—	2.5'	\$79.40
KT43VCP100*	R22	A/C	100	5'	\$84.84
KT43VCP85*	R22	A/C	85	5'	\$84.84
KT43NGA-30*	R407C	A/C	—	2.5'	\$79.40
KT43NGA*	R407C	A/C	—	5'	\$84.84
KT43VZ*	R22	L/T	—	5'	\$84.84
KT43VZ-10*	R22	L/T	—	10'	\$225.00
KT43VZP*	R22	L/T	20	5'	\$84.84
KT43VZP40*	R22	L/T	40	5'	\$84.84
KT45ZGA*	R410A	A/C	—	5'	\$177.14
KT45ZGA-30*	R410A	A/C	—	2.5'	\$152.76
KT45-5ZGA*	R410A	A/C	—	5'	\$206.26
KT45ZCP180*	R410A	A/C	180	5'	\$177.14
KT45-5VCP100*	R22	A/C	100	5'	\$206.26
KT45ZN*	R410A	Chiller	N/A	5'	\$177.14

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VALVES

CHARGE ELEMENT



KT53VC

KT53 SERIES

- Used on G, EG Series valves



KT63SC-PC

KT63 SERIES

- Used on M, V, W Series valves



Part No.	Refrigerant Class	Appli- cation	Pressure Limit (psig)	Capillary Length	Price
KT53FZP*	R409A	L/T	20	5'	\$120.06
KT53JC*	R134a	H/T	—	5'	\$120.06
KT53JCP60*	R134a	A/C	60	5'	\$120.06
KT53JZ*	R134a	L/T	—	5'	\$120.06
KT53SC/PC*	R404A/ R507	H/T	—	5'	\$120.06
KT53SZ*	R404A	L/T	—	5'	\$120.06
KT53SZP*	R404A	L/T	45	5'	\$120.06
KT53VC*	R22	H/T	—	5'	\$120.06
KT53VCP100*	R22	A/C	100	5'	\$120.06
KT53NGA*	R407C	A/C	—	5'	\$120.06
KT53VZ*	R22	L/T	—	5'	\$120.06
KT53VZP*	R22	L/T	20	5'	\$120.06
KT53VZP40*	R22	L/T	40	5'	\$120.06

Part No.	Refrigerant Class	Appli- cation	Pressure Limit (psig)	Capillary Length	Price
KT63FZ*	R409A	L/T	—	5'	\$290.94
KT63SC/PC*	R404A	H/T	—	5'	\$290.94
KT63SZ*	R404A	L/T	—	5'	\$290.94
KT63VC*	R22	H/T	—	5'	\$290.94
KT63VCP100*	R22	A/C	100	20'	\$431.14
KT63NGA*	R407C	A/C	—	10'	\$431.14

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KT83VCP100

KT83 SERIES

- Used on C, S, EBS, Small O Series valves



Part No.	Refrigerant Class	Application	Pressure Limit (psig)	Capillary Length	Price
KT83JC*	R134a	H/T	—	5'	\$130.74
KT83JCP60*	R409A	A/C	60	5'	\$130.74
KT83FZ*	R409A	L/T	—	5'	\$130.74
KT83L1*	—	dsh	—	5'	\$195.10
KT83SC/PC*	R404A/R507	H/T	—	5'	\$130.74
KT83SZ*	R404A	L/T	—	5'	\$130.74
KT83SZP*	R404A	L/T	45	5'	\$130.74
KT83VC*	R22	H/T	—	5'	\$130.74
KT83VCP100*	R22	A/C	100	5'	\$130.74
KT83VCP10010*	R22	A/C	100	10'	\$270.96
KT83VCP10020*	R22	A/C	100	20'	\$270.96
KT83NGA*	R407C	A/C	—	5'	\$130.74
KT83NGA10*	R407C	A/C	—	10'	\$270.96
KT83VGA10*	R22	A/C	—	10'	\$270.96
KT83VGA20*	R22	A/C	—	20'	\$270.96
KT83VN*	R22	Low Ambient	—	5'	\$130.74
KT83VZ*	R22	L/T	—	5'	\$130.74
KT83VZP*	R22	L/T	20	5'	\$130.74
KT83VZP40*	R22	L/T	40	5'	\$130.74
KT853ZGA*	R410A	A/C	—	5'	\$151.84
KT853ZN*	R410A	Chiller	N/A	5'	\$151.84
KT85ZGA*	R410A	A/C	—	5'	\$151.84



KT12AL

AMMONIA SERIES

- Used on "D" or "A" Series ammonia expansion valves



Part No.	Application	Capillary Length	Used on	Price
KT12AL*	H/T, L/T	10'	A	\$273.00

LEVEL MASTER ELEMENT



LMC115V25W

LEVEL MASTER HEATER



Part No.	Voltage	Watts	Price
LMC115V15W*	115	15	\$757.50
LMC230V15W*	230	15	\$690.00



LMC23AL

LEVEL MASTER ELEMENT



Part No.	Ref.	Refrigerant	Price
LMC12AL*	NH3	NH3	\$768.00
LMC23AL*	NH3	NH3	\$546.00

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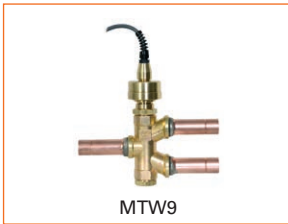
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VALVES

ELECTRONIC EXPANSION VALVE



MTW9

MODULATING 3-WAY VALVE

Allows control of refrigerant flow through two outlet ports. Two valve pistons are attached to a connecting rod and also to the stepper motor. As the MTW valve modulates one port opens and the other port closes. The movement of the valve pistons relative

to the two ports is inversely proportional.

- Improved performance from modulated control
- Reduction in number of modulation valves required per system
- Simplified system piping enables piping material cost reduction
- Reduced install time enables labor cost reduction
- Single actuator reduces control and wiring complexity
- Utilizes standard 42mm stepper motor
- 6,386 steps of resolution
- 75 Ω bipolar stepper motor
- 160 mA per winding
- Bi-sealing piston assembly
- Compatible with the Sporlan Kelvin II Series valve controllers



Part No.	Connection Size (In.)		Overall Height (In.)	Price
	Inlet	Outlet		
MTW95*	5/8	5/8	6.71	\$1,398.62
MTW97*	7/8	7/8	6.71	\$1,398.62
MTW99*	1 1/8	1 1/8	6.71	\$1,398.62
MTW1711*	1 3/8	1 3/8	8.25	\$1,815.22
MTW1713*	1 5/8	1 5/8	8.25	\$1,815.22
MTW1717*	2 1/8	2 1/8	8.25	\$1,834.94



034G4209

ELECTRONIC EXPANSION VALVE TYPE ETS 12.5 - ETS 100

ETS is a series of electric expansion valves for precise liquid injection in evaporators for A/C and refrigeration applications.

- Balanced design (ETS 50 – ETS 400) providing bi-flow operation as well as solenoid tight shut-off function in both flow directions
- ETS 50 and ETS 100 feature improved process and productivity due to waterless brazing i.e soldering without wet cloth for cooling.
- ETS 50 – ETS 400 are all designed with built-in sight glass with moisture indicator.
- Wide range for all common refrigerants: R410A, R407C, R404A, R507, R134a, R22, R1234ze
- Refrigerant temperature range: -40 to 149°F
- Maximum working pressure: 660 psig
- ODF connection
- Cable and connector assemblies as accessories.

ENGINEERING
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Part No.	Description	Connection (In.)		Price
		Inlet	Outlet	
034G4209	Type ETS 12.5, Straight	1/2	1/2	☎
034G4210*	Type ETS 12.5, Straight	5/8	5/8	\$569.72
034G4211*	Type ETS 12.5, Straight	7/8	7/8	\$569.70
034G4202	Type ETS 25, Straight	5/8	5/8	☎
034G4203	Type ETS 25, Straight	7/8	7/8	☎
034G1706*	Type ETS 50, w/ Sight Glass	1 1/8	1 1/8	\$742.98
034G0508	Type ETS 100, w/ Sight Glass	1 3/8	1 3/8	☎

Part No.	Description	Price
034G2330	Cable, M12 Female 2 Meter Length	\$69.44
034G2323	Cable, M12 Female 8 Meter Length	\$108.60

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AKV/AKVH EXPANSION VALVE

The AKV(H) valves are normally controlled by a controller from Danfoss' range of ADAP- KOOL® controllers.
The AKV valves are supplied as a component program, as follows:

- Separate valve
 - Separate coil with terminal box or cable
 - Spare parts in the form upper part, orifice and filter
- Valve capacity is indicated with a number forming part of the type designation.
The number represents the size of the orifice of the valve in question. A valve with orifice 3 will for example be designated AKV 10-3. The orifice assembly is replaceable



068F1210

ELECTRONIC EXPANSION VALVE AKV

- Refrigerants: R744, R22/R407C, R404A/R507, R410A, R134a, R407A, R23
- Tolerance of coil voltage: +10 / -15%
- Regulation range (Capacity range): 10 - 100%

- Evaporating temperature: -76 to 140°F.
- ODF Connection
- Maximum working pressure: 610 psig

ENGINEERING
TOMORROW



Part No.	Description	Connection (In.)		Price
		Inlet	Outlet	
068F5211*	AKV 10-1 Valve, Angle	1/2	3/8	\$529.38
068F5212*	AKV 10-2 Valve, Angle	1/2	3/8	\$238.84
068F5213*	AKV 10-3 Valve, Angle	1/2	3/8	\$238.84
068F5214*	AKV 10-4 Valve, Angle	1/2	3/8	\$238.84
068F5215*	AKV 10-5 Valve, Angle	1/2	3/8	\$238.84
068F5216*	AKV 10-6 Valve, Angle	1/2	3/8	\$238.84
068F5217*	AKV 10-7 Valve, Angle	1/2	5/8	\$238.84
068F5035*	AKV 15-1 Valve, Straight	3/4	3/4	\$403.82
068F5036*	AKV 15-2 Valve, Straight	3/4	3/4	\$377.40
068F5037*	AKV 15-3 Valve, Straight	7/8	7/8	\$377.40



068F4079

ELECTRONIC EXPANSION VALVE AKVH

- Designed for refrigerating plants using R744 refrigerant
- Normally closed, solenoid tight expansion valve
- Enables energy saving minimum stable superheat and adaptive defrost algorithms
- Provides excellent distribution and oil return due to turbulent flow
- The AKVH 10 valves cover a capacity range from 0.4 kW to 11 kW in refrigeration applications and 0.8 kW to 22 kW in freezing applications.
- ODF Connection
- Maximum working pressure: 1305 psig

ENGINEERING
TOMORROW



Part No.	Description	Connection (In.)		Price
		Inlet	Outlet	
068F4079	AKVH 10-1 Valve, Angle Way	3/8	1/2	☎
068F4080	AKVH 10-2 Valve, Angle Way	3/8	1/2	☎
068F4082	AKVH 10-4 Valve, Angle Way	3/8	1/2	☎
068F4083	AKVH 10-5 Valve, Angle Way	3/8	1/2	☎



068F5283

ORIFICE KIT, AKV/AKVH SERIES

Spare part kits for AKV/AKVH valves. Each kit contains items required for servicing of the valves, such as piston assemblies, springs, gaskets, orifice and filter

ENGINEERING
TOMORROW



Part No.	Description	Use with	Price
068F5283	Use with AKV/AKVH 10 - 0/1/2/3	AKV/AKVH 10 - 0/1/2/3	\$54.00
068F5284	Use with AKV/AKVH 10 - 4/5/6	AKV/AKVH 10 - 4/5/6	\$54.00
068F5285	Use with AKV/AKVH 10 - 7/8	AKV/AKVH 10 - 7/8	\$54.00

☎ Please contact your local United Refrigeration Branch or our Customer Service Center for pricing.

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

VALVES

REFRIGERANT FLOW CONTROL

CAPILLARY TUBING

Commercial tolerance $\pm .001"$. Plug-drawn, sealed and dehydrated soft copper tubing.



TC26



Part No.	ID (In.)	OD (In.)	Length (Ft.)	Price
TC26*	0.026	.072	100.0	\$69.98
TC26-16*	0.026	.072	16.0	\$25.50
TC31*	0.031	.083	100.0	\$82.68
TC31-12*	0.031	.083	12.0	\$24.86
TC3612*	0.036	.087	12.0	\$24.86
TC36*	0.036	.087	100.0	\$82.68
TC42*	0.042	.093	100.0	\$90.16
TC4212*	0.042	.093	12.0	\$25.68
TC44*	0.044	.109	100.0	\$110.00
TC49-11*	0.049	.099	11.0	\$29.84
TC49*	0.049	.099	100.0	\$93.60
TC50*	0.050	.114	100.0	\$115.84
TC54*	0.054	.106	100.0	\$98.88
TC55*	0.055	.125	100.0	\$131.38
TC59*	0.059	.112	100.0	\$106.10
TC64*	0.064	.125	100.0	\$119.64
TC7012*	0.070	.125	12.0	\$29.28
TC75-9*	0.075	.125	9.0	\$25.72
TC80*	0.080	.145	100.0	\$152.02
TC85-9*	0.085	.145	9.0	\$38.42

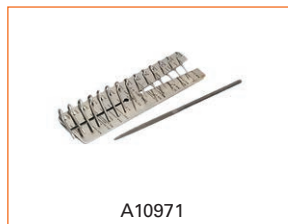
CAPILLARY TUBE



BC4



Part No.	ID (In.)	OD (In.)	Length (Ft.)	Price
BC5	0.028	0.071	10.0	\$15.84
BC5100	0.028	0.071	100.0	\$86.66
BC1	0.031	0.081	10.0	\$18.50
BC1100	0.031	0.081	100.0	\$95.00
BC2	0.040	0.093	12.0	\$24.84
BC2100	0.040	0.093	100.0	\$111.66
BC3	0.052	0.093	12.0	\$23.66
BC3100	0.052	0.093	100.0	\$115.00
BC4	0.064	0.125	12.0	\$26.66
BC4100	0.064	0.125	100.0	\$173.34



A10971

CAPTUBE TOOL

- Stainless steel with black etched numbers
- Stainless steel wire plugs
- 14 I.D. sizes from .026" - .090"
- 22 O.D. sizes from .072" - 7/16"; 5-12mm



Part No.	Description	Price
A10971*	Cap Tube Gauge with File	\$73.56
A10972*	Cap Tube File	\$18.58



CTP1

CAPTUBE CUTTER



Part No.	Description	Price
CTP1	Cap Tube Cutter, Wire Stripper	\$14.66

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*WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

REFRIGERANT DISTRIBUTOR



1620

ODM

- First 4 digits indicate distributor model
- Connection: OD male x OD female



Part No.	Available Nb. of Outlets	Outlet Size (In.)	Overall Length (In.)	Connection Size (In.)	Nozzle Type	Use with	Price
16202-1/4*	2	1/4	1.19	5/8	J	Valves (B)BI,EBF,E(B)Q,ER,FB,RC,RI,S,SBF,SR	\$68.40
16203-1/4*	3	1/4	1.19	5/8	J	Valves (B)BI,EBF,E(B)Q,ER,FB,RC,RI,S,SBF,SR	\$68.40
16204-3/16*	4	3/16	1.19	5/8	J	Valves (B)BI,EBF,E(B)Q,ER,FB,RC,RI,S,SBF,SR	\$72.20
D2622-5/16*	2	5/16	2.44	1/2	L	Valves (B)BI,EBF,E(B)Q,EF,EG,FB,RC,SBF,S(B)Q	\$100.46
D2623-5/16*	3	5/16	2.44	1/2	I	Valves (B)BI,EBF,E(B)Q,EF,EG,FB,RC,SBF,S(B)Q	\$97.54
D2624-5/16*	4	5/16	2.44	1/2	L	Valves (B)BI,EBF,E(B)Q,EF,EG,FB,RC,SBF,S(B)Q	\$97.54
D2625-1/4*	5	1/4	2.44	1/2	L	Valves (B)BI,EBF,E(B)Q,EF,EG,FB,RC,SBF,S(B)Q	\$97.54
D2626-1/4*	6	1/4	2.44	1/2	L	Valves (B)BI,EBF,E(B)Q,EF,EG,FB,RC,SBF,S(B)Q	\$97.54
16222-5/16*	2	5/16	1.62	5/8	J	Valves (B)BI,EBF,E(B)Q,ER,FB,RC,RI,S,SBF,SR	\$75.20
16223-5/16*	3	5/16	1.62	5/8	J	Valves (B)BI,EBF,E(B)Q,ER,FB,RC,RI,S,SBF,SR	\$75.20
16224-1/4*	4	1/4	1.62	5/8	J	Valves (B)BI,EBF,E(B)Q,ER,FB,RC,RI,S,SBF,SR	\$75.20
16224-5/16*	4	5/16	1.62	5/8	J	Valves (B)BI,EBF,E(B)Q,ER,FB,RC,RI,S,SBF,SR	\$75.20
16225-1/4*	5	1/4	1.62	5/8	J	Valves (B)BI,EBF,E(B)Q,ER,FB,RC,RI,S,SBF,SR	\$75.20
16226-1/4*	6	1/4	1.62	5/8	J	Valves (B)BI,EBF,E(B)Q,ER,FB,RC,RI,S,SBF,SR	\$75.20
11135-5/16*	5	5/16	1.78	7/8	G	Valves (B)BI,EBS,E(B)Q,ER,O,R,S	\$92.40
11136-5/16*	6	5/16	1.78	7/8	G	Valves (B)BI,EBS,E(B)Q,ER,O,R,S	\$89.70
11137-1/4*	7	1/4	1.78	7/8	G	Valves (B)BI,EBS,E(B)Q,ER,O,R,S	\$89.70
11138-1/4*	8	1/4	1.78	7/8	G	Valves (B)BI,EBS,E(B)Q,ER,O,R,S	\$89.70
11157-5/16*	7	5/16	2.44	1 1/8	E	Valves EBS,O,S	\$122.96
11158-5/16*	8	5/16	2.44	1 1/8	E	Valves EBS,O,S	\$119.40
11159-1/4*	9	1/4	2.44	1 1/8	E	Valves EBS,O,S	\$119.40
111510-1/4*	10	1/4	2.44	1 1/8	E	Valves EBS,O,S	\$119.40
111612-1/4*	12	1/4	2.44	1 1/8	E	Valves EBS,O,S	\$167.20
111614-1/4*	14	1/4	2.44	1 1/8	E	Valves EBS,O,S	\$167.20
11179-5/16*	9	5/16	2.56	1 3/8	C	Valves EBS,O	\$159.46
112610-3/8*	10	3/8	2.81	1 3/8	C	Valves EBS,O	\$239.20
112610-5/16*	10	5/16	2.81	1 3/8	C	Valves EBS,O	\$246.36
112612-5/16*	12	5/16	2.81	1 3/8	C	Valves EBS,O	\$239.20
112614-5/16*	14	5/16	2.81	1 3/8	C	Valves EBS,O	\$239.20
112616-1/4*	16	1/4	2.81	1 3/8	C	Valves EBS,O	\$239.20



16054-14

FEMALE FLARE

- First 4 digits indicate distributor model
- Connection type: female flar



Part No.	Available Nb. of Outlets	Outlet Size (In.)	Overall Length (In.)	Connection Size (In.)	Nozzle Type	Use with	Price
16052-1/4*	2	1/4	2.50	1/2	L	Valves G, C	\$91.16
16053-1/4*	3	1/4	2.50	1/2	L	Valves G, C	\$91.16
16054-1/4*	4	1/4	2.50	1/2	L	Valves G, C	\$91.16
16055-3/16*	5	3/16	2.50	1/2	L	Valves G, C	\$93.90
16082-5/16*	2	5/16	2.94	1/2	L	Valves G, C	\$109.40
16083-5/16*	3	5/16	2.94	1/2	L	Valves G, C	\$109.40
16084-5/16*	4	5/16	2.94	1/2	L	Valves G, C	\$112.66
16085-1/4*	5	1/4	2.94	1/2	L	Valves G, C	\$109.40
16086-1/4*	6	1/4	2.94	1/2	L	Valves G, C	\$109.40

*WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

REFRIGERANT DISTRIBUTOR

Connection Type	TEV Model¹	Distributor Model	Maximum No. of Circuits				Nozzle Size	Material
			3/16"	1/4"	5/16"	3/8"		
1/2 SAE	BC, C, F, G, NI, Q, RI, RC, BI, FB, I, X	1605	6	4	—	—	L	# 360 Brass
		1608	9	6	4	—		
5/8 SAE	C, BI, FB, I, X	1104	7	6	—	—	J	
		1147	9	7	5	—		
1/2 ODM	EBF, EF, EG, EQ, RC, RI, SBF, SQ, BI, FB, I, X	D260	6	4	—	—	L	
		D262	9	6	4	—		
5/8 ODM	EBF, EQ, RC, RI, S, SBF, BI, FB, I, X	1620	6	4	—	—	J	
		1622	9	7	4	—		
7/8 ODM	EBS, EQ, O, S, BI, I, X	1112	7	6	4	2	G	
		1113	12	8	6	4		
1 1/8 ODM	EBS, O, S, X	1115	15	10	9	6	E	
		1116	20	15	—	—		
1 3/8 ODM	EBS, O	1117	18	15	9	7	C	
		1126	24	18	15	12		
		1128	28	25	21	16		
1 5/8 ODM	O	1125	28	24	20	16	A	
		1127	37	30	26	20		
		1143	40	36	30	24		
Type H	H	1109	10	8	6	4	G	# 369 Brass
Valve		1124	30	23	18	15	E	
Flange		1192	11	10	6	6	G	
Type M/V	M/V	1121	34	24	20	16	C	# 360 Brass
Valve Flange		1193	26	21	18	16	6061-T6 Aluminum	
¹BI, FB, I, X are OEM valves								

¹BI, FB, I, X are OEM valves

SIDE CONNECTION TYPE DISTRIBUTORS

R Model distributors have an extended nozzle cone that transmits refrigerant from the TXV to the dispersion cone without influence from the discharge gas flow entering through the side connection. It produces a more equal refrigerant distribution.

Connection Type	TEV Model ¹	Distributor Model	Maximum No. of Circuits				Nozzle Size	Side Connection	Material
			3/16"	1/4"	5/16"	3/8"			
5/8 ODM	EBF, EQ, RC, RI, S, SBF, BI, FB, I, X	1651(R)	7	5	—	—	J(R)	3/8 or 1/2 ODF	#360 Brass
7/8 ODM	EBS, EQ, O, S, BI, I, X	1653(R)	12	9	6	4	G(R)	3/8 or 1/2 ODF	
1 1/8 ODM	EBS, O, S, X	1655(R)	20	12	10	7	E(R)	1/2 or 5/8 ODF	
1 3/8 ODM	EBS, O	1657(R)	26	18	14	11	C(R)	5/8 or 7/8 ODF	
1 5/8 ODM	O	1659(R)	32	24	18	14	A(R)	7/8 or 1 1/8 ODF	

¹BI, FB, I, X are OEM valves

AMMONIA DISTRIBUTORS

Connection Type	TEV Model ¹	Distributor Model	Maximum No. of Circuits				Nozzle Size	Material
			3/16"	1/4"	5/16"	3/8"		
Type D Valve Flange	D	1132	5	4	3	—	GS	C-1018 or C-1019 Steel
		1130	10	10	6	6		
		1133 ¹	10	8	6	6		6061-T6 Aluminum
		1180	8	6	—	—		
		1182	12	10	—	—		
Type A Valve Flange	A	1138	19	14	12	10	CS	8620 Steel
		1185	20	16	11	—		6061-T6 Aluminum

¹Side connection type distributor

 *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

REFRIGERANT DISTRIBUTOR



NOZZLEKITC4

- Retainer ring included

NOZZLE

For selected distributor or auxiliary side connector, choose based on type availability and capacity to select proper nozzle.

Replace (*) with bold orifice drilling for part number (i.e. NOZZLEKITL16 = 1/6 for 1605, 1608 distributors).

Rating Conditions

- R22: +40°F evaporator temperature
 - R404A: -20°F evaporator temperature
 - R409A: +20°F evaporator temperature
- All ratings based on 100°F liquid entering TXV, 10 psi ΔP across distributor tubes and 30" tube length.
- R409: 15 psi ΔP across nozzle
 - R22, R404A: 25 psi ΔP across nozzle



Part No.	Available Size Range	Nozzle Type	Orifice Siz	Use with Distributors	Price
NOZZLEKITA(*)*	3 to 50	A	10	1125, 1127, 1143, 1659	\$39.16
NOZZLEKITC(*)*	3 to 50	C	1	1117, 1119, 1121, 1126, 1128, 1657, 1193	\$39.16
NOZZLEKITE(*)*	2 to 30	E	1	1115, 1116, 1124, 1655	\$37.86
NOZZLEKITG(*)*	1/6 to 20	G	1	1109, 1110, 1112, 1113, 1653, 1192	\$36.04
NOZZLEKITJ(*)*	1/9 to 8	J	1/3	1104, 1105, 1147, 1620, 1622, 1651	\$35.26
NOZZLEKITL(*)*	1/9 to 8	L	1	1605, 1608	\$34.14
NOZZLEKITAR(*)*	3 to 30	AR	10	1659R	\$64.90
NOZZLEKITCR(*)*	3 to 35	CR	10	1657R	\$54.54
NOZZLEKITER(*)*	2 to 20	ER	1	1655R	\$50.54
NOZZLEKITGR(*)*	1/6 to 10	GR	1	1653R	\$45.34
NOZZLEKITJR(*)*	1/9 to 5	JR	1	1651R	\$43.84

NOZZLE CAPACITY (Refrigerant)

Size	Orifice	Capacity (Tons)		
		R22	R404A	R409A
J, JR, L	19 (1/9)	.14	.04	.06
G, GR, J, JR, L	16 (1/6)	.21	.07	.09
G, GR, J, JR, L	14 (1/4)	.34	.11	.14
G, GR, J, JR, L	13 (1/3)	.44	.14	.18
G, GR, J, JR, L	12 (1/2)	.61	.19	.25
G, GR, J, JR, L	34 (3/4)	.92	.29	.37
ER, G, GR, J, JR, L	1	1.23	.39	.50
ER, G, GR, J, JR, L	112 (1 1/2)	1.79	.57	.73
E, ER, G, GR, J, JR, L	2	2.46	.78	1.00
E, ER, G, GR, J, JR, L	212 (2 1/2)	3.07	.97	1.24
A, AR, C, CR, E, ER, G, GR, J, JR, L	3	3.68	1.17	1.49
A, AR, C, CR, E, ER, G, GR, J, JR, L	4	4.92	1.56	2.00
A, AR, C, CR, E, ER, G, GR, J, JR, L	5	6.07	1.93	2.46
A, AR, C, CR, E, ER, G, GR, J, L	6	7.28	2.31	2.95
A, AR, C, CR, E, ER, G, GR, J, L	8	8.77	2.79	3.55
A, AR, C, CR, E, ER, G	10	9.83	3.12	3.98
A, AR, C, CR, E, ER, G	12	12.1	3.86	4.92
A, AR, C, CR, E, ER, G	15	15.1	4.78	6.10
A, AR, C, CR, E, ER, G	17	16.8	5.35	6.82
A, AR, C, CR, E, ER, G	20	20.3	6.45	8.22
A, AR, C, CR, E, G	25	25.5	8.11	10.3
A, AR, C, CR, E, G	30	29.2	9.27	11.8
A, C, CR	35	35.1	11.1	14.2
A, C	40	39.3	12.5	15.9
A, C	50	51.0	16.2	20.7

*WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

VALVES

SOLENOID VALVE, SPORLAN

Compact solenoid valves with pilot operated disc construction (except B25, E25 and E34, E42) for refrigeration and air conditioning. These valves may be mounted horizontal, on side, or in a vertical line. They are suitable for suction line service because very low pressure differential is required for full opening.



A3F1

A3, E3, E5 SERIES

Hermetic direct acting solenoid valves for refrigeration and air conditioning applications. The flow rate of the E3 and A3 are identical, therefore, the E3 may be freely substituted for the A3. The A3 Series (dated 7/86 or later), and the E3 and E5 Series may be mounted horizontal, on its side, or in a vertical line.

- Safe working pressure: 500 psi
- Port size:
.101" A3, E3
.150" E5
- Liquid capacity: R22, 3 lb. ΔP, 40°F evaporator
1.6 tons A3, E3
2.8 tons E5
- MOPD: 300 psi AC, 175 psi DC
- Use MKC1 coil
- Overall Length is less coil.



Connection					
Part No.	Size (In.)	Type	Overall Length (In.)	Comments	Price
A3F1*	1/4	MFL	2.38	—	\$120.70
A3P1*	3/8	FPT	1.88	—	\$124.10
E3S120*	1/4	ODF	4.63	E	\$113.88
E3S130*	3/8	ODF	4.56	E	\$113.88
E3S140*	1/2	ODF		E	\$153.20
E5S140*	1/2	ODF		E	\$118.64



B6F1

B6, E6 SERIES

- Safe working pressure: 500 psi
- Port size: 3/16"
- Liquid capacity: R22, 3 lb. ΔP, 40°F evaporator, 4.9 tons
- MOPD: 300 psi AC, 175 psi DC
- Use MKC1 coil for normally closed valve



- Overall length is less coil

Connection					
Part No.	Size (In.)	Type	Overall Length (In.)	Comments	Price
B6F1*	3/8	MFL	2.50	—	\$148.78
B6P1*	3/8	FPT	1.94	—	\$152.96
MB6F1*	3/8	MFL	2.50	M	\$203.52

B9, E9 SERIES



E9S230

- Port size: 9/32"
- Safe working pressure: 500 psi
- Liquid capacity: R22, 3 lb. ΔP, 40°F evaporator, 8.0 tons
- MOPD: 300 psi AC, 250 psi DC, 275 psi N.O.

- Use MKC2 coil for normally closed valve; OMKC2 coil for normally open valve
- Overall length is less coil



Connection						
Part No.	Size (In.)	Type	Overall Length (In.)	Comments	Use Coil Model	Price
B9F2*	3/8	MFL	2.88	—	MKC2	\$198.42
B9P2*	3/8	FPT	2.06	—	MKC2	\$198.42
E9S230*	3/8	ODF	4.63	E	MKC2	\$192.78
MB9F2*	3/4	MFL	2.88	M	MKC2	\$322.10
ME9S250*	5/8	ODF	6.50	M, E	MKC2	\$240.10
OB9F2*	3/8	MFL	2.88	O	OMKC2	\$458.62
OE9S230*	3/8	ODF	4.63	O, E	OMKC2	\$331.74
OE9S240*	1/2	ODF	5.00	O, E	OMKC2	\$331.74
OE9S250*	5/8	ODF	6.50	O, E	OMKC2	\$345.64



MB10F2

B10, E10 SERIES

- Port size: 5/16"
- Liquid capacity: R22, 3 lb. ΔP, 40°F evaporator, 11.1 tons
- Safe working pressure: 500 psi
- MOPD: 300 psi AC, 250 psi DC, 275 psi N.O.

- Use MKC2 coil for normally closed valve; OMKC2 coil for normally open valve
- Overall length is less coil



Connection					
Part No.	Size (In.)	Type	Overall Length (In.)	Comments	Price
B10F2*	1/2	MFL	3.25	—	\$234.74
MB10F2*	1/2	MFL	3.25	M	\$366.32
OE10S240HP*	1/2	ODF	5.00	O, E	\$340.04

Comment Key

E = Extended Solder Ends
O = Normally Open

M = Manual Lift Stem
T = Mounting Bracket Adapter

*WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov



B14P2

B14, E14 SERIES

- Port size: 7/16"
- Liquid capacity: R22, 3 lb. ΔP, 40°F evaporator, 15.8 tons
- Safe working pressure: 500 psi
- MOPD: 300 psi AC, 250 psi DC, 275 psi N.O.

- Use MKC2 coil for normally closed valve; OMKC2 coil for normally open valve
- Overall length is less coil



Connection						
Part No.	Size (In.)	Type	Overall Length (In.)	Comments	Use Coil Model	Price
B14P2*	1/2	FPT	2.41	—	MKC2	\$242.90
MB14P2*	1/2	FPT	2.41	M	MKC2	\$392.38
OB14P2*	1/2	FPT	2.41	O	OMKC2	\$562.72
ME14S270*	7/8	ODF	N/A	M,E	MKC2	\$309.80



B19P2

B19, E19 SERIES

- Port size: 19/32"
- Liquid capacity: R22, 3 lb. ΔP, 40°F evap, 24.2 tons
- Safe working pressure: 500 psi
- MOPD: 300 psi AC, 250 psi DC, 275 psi N.O.

- Use MKC2 coil for normally closed valve; OMKC2 coil for normally open valve
- Overall length is less coil



Connection						
Part No.	Size (In.)	Type	Overall Length (In.)	Comments	Use Coil Model	Price
B19P2*	3/4	FPT	3.00	—	MKC2	\$406.96
OE19S270*	7/8	ODF	7.13	O, E	OMKC2	\$536.26



OB25S2

B25, E25 SERIES

- Port size: 25/32"
- Liquid capacity: R22, 3 lb. ΔP, 40°F evaporator, 41.4 tons
- Safe working pressure: 500 psi
- MOPD: 300 psi AC, 250 psi DC, 275 psi N.O.

- Use MKC2 coil for normally closed valve; OMKC2 coil for normally open valve
- Overall length is less coil



Connection						
Part No.	Size (In.)	Type	Overall Length (In.)	Comments	Use Coil Model	Price
B25P2*	1	FPT	3.50	—	MKC2	\$801.54
MB25P2*	1	FPT	3.50	M	MKC2	\$869.32
OB25S2*	1 1/8	ODF	4.88	O	OMKC2	\$1,012.62
OE25S270*	7/8	ODF	7.50	O, E	OMKC2	\$726.48
OE25S290*	1 1/8	ODF	8.50	O, E	OMKC2	\$705.36



E10S250HP

R410A SERVICE

Constructed for service allowing the higher working pressures of R410A. Also works with other low pressure refrigerants.

- Overall length is less coil



Connection						
Part No.	Size (In.)	Type	Overall Length (In.)	Comments	Use Coil Model	Price
E5S120HP*	1/4	ODF	4.56	E	MKC1	\$109.52
E2S130HP*	3/8	ODF	4.63	E	MKC1	\$109.52
E5S130HP*	3/8	ODF	4.56	E	MKC1	\$109.52
ME5S130HP*	3/8	ODF	4.56	M,E	MKC1	\$174.48
ME6S130HP*	3/8	ODF	4.63	M,E	MKC1	\$172.74
E6S130HP*	3/8	ODF	4.63	E	MKC1	\$129.88
ME6S140HP*	1/2	ODF	5.00	M,E	MKC1	\$172.74
E6S140HP*	1/2	ODF	5.00	E	MKC1	\$129.88
ME9S230HP*	3/8	ODF	4.63	M,E	MKC2	\$224.06
E9S230HP*	3/8	ODF	4.63	E	MKC2	\$178.20
ME9S240HP*	1/2	ODF	5.00	M,E	MKC2	\$224.06
E9S240HP*	1/2	ODF	5.00	E	MKC2	\$178.20
E10S240HP*	1/2	ODF	5.00	E	MKC2	\$210.90
ME10S240HP*	1/2	ODF	5.00	M,E	MKC2	\$255.04
E9S250HP*	5/8	ODF	6.50	E	MKC2	\$178.20
E10S250HP*	5/8	ODF	6.50	E	MKC2	\$210.90
ME10S250HP*	5/8	ODF	6.50	M,E	MKC2	\$255.04
ME14S250HP*	5/8	ODF	6.88	M,E	MKC2	\$257.70
E14S250HP*	5/8	ODF	6.88	E	MKC2	\$220.30
ME19S250HP*	5/8	ODF	N/A	M,E	MKC2	\$391.94
E19S250HP*	5/8	ODF	N/A	E	MKC2	\$348.16
ME14S270HP*	7/8	ODF	N/A	M,E	MKC2	\$278.20
E14S270HP*	7/8	ODF	N/A	E	MKC2	\$238.52
ME19S270HP*	7/8	ODF	7.13	M,E	MKC2	\$391.94
E19S270HP*	7/8	ODF	7.13	E	MKC2	\$348.16
ME25S270HP*	7/8	ODF	7.50	M,E	MKC2	\$549.20
E25S270HP*	7/8	ODF	7.50	E	MKC2	\$510.88
ME19S290HP*	1 1/8	ODF	N/A	M,E	MKC2	\$391.94
E19S290HP*	1 1/8	ODF	N/A	E	MKC2	\$348.16
ME25S290HP*	1 1/8	ODF	8.50	M,E	MKC2	\$549.20
E25S290HP*	1 1/8	ODF	8.50	E	MKC2	\$510.88
E35S1110HP*	1 3/8	ODF	11.06	E	MKC1	\$775.94
E43S1130HP*	1 5/8	ODF	11.06	E	MKC1	\$1,689.84

Comment Key

E = Extended Solder Ends
O = Normally Open

M = Manual Lift Stem
T = Mounting Bracket Adapter

*WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

VALVES

SOLENOID VALVE, SPORLAN



CME14S250

CHECK VALVE SOLENOID

- Designed to replace a liquid line solenoid in parallel with a reverse flow check valve
- Safe working pressure: 500 psi
- MOPD: 300 psi AC, 250 psi DC, 275 psi N.O.
- Use MKC2 coil for normally closed valve



		Connection				
Part No.	Port Size (In.)	Size (In.)	Type	Overall Length (In.)	Comments	Price
CME14S250*	7/16	5/8	ODF	6.88	M,E	\$489.90
CME10S250*	5/16	5/8	ODF	6.50	M,E	\$467.88
CME19S270*	19/32	7/8	ODF	7.13	M,E	\$690.12



E35S190HP

R410A SERVICE

Constructed for service allowing the higher working pressures of R410A. The E34/E35 Series may be mounted horizontal, on side, or in a vertical line.

- Liquid capacity: R410A, 3 lb. ΔP, 40°F evaporator, 100°F liquid

- Safe working pressure: 700 psi
- MOPD: 450 psi AC
- Use MKC2 coil for normally closed valve (M)E42 Series
- Use MKC1 coil for normally closed valve (M)E35 Series
- Port size: 1"



		Connection				
Part No.	Liquid Capacity (Tons)	Size (In.)	Type	Overall Length (In.)	Comments	Price
ME35S190HP*	66.8	1 1/8	ODF	10.06	M,E	\$786.38
E35S190HP*	66.8	1 1/8	ODF	10.06	E	\$756.96
ME35S1110HP*	66.8	1 3/8	ODF	11.06	M,E	\$821.78

Comment Key

E = Extended Solder Ends
O = Normally Open

M = Manual Lift Stem
T = Mounting Bracket Adapter



ME43S1130HP

LARGE CAPACITY

May be mounted horizontal, on side, or in a vertical line.

- Liquid capacity: R22, 3 lb. ΔP, 40°F evaporator
- Safe working pressure: 500 psi
- MOPD: 300 psi AC (E35, E42), 250 psi DC (E35), 275 psi DC (OE42)
- MOPD: 450 psi AC (E43-1130), 400 psi AC (E43-1170), 400 psi DC (E43)
- Use MKC2 normally closed valve/OMKC2 coil normally open valve for E34, E42 Series
- Use MKC1 normally closed valve/OMKC1 coil normally open valve for E35, E43 Series



Part No.	Port Size (In.)	Liquid Capacity (Tons)	Connection ODF (In.)	Overall Length (In.)	Comments	Price
OE35S190*	1	70.9	1 1/8	10.06	M,E	\$1,039.48
OE35S1110*	1	70.9	1 3/8	11.06	O, E	\$1,060.26
ME43S1130HP*	1 5/16	127	1 5/8	11.06	M,E	\$1,395.46
ME43S1170HP*	1 5/16	127	2 1/8	11.06	M,E	\$1,438.16
OE43S1130HP*	1 5/16	127	1 5/8	11.06	O, E	\$1,470.64
OE43S1170HP*	1 5/16	127	2 1/8	11.06	O,E	\$1,515.46



W14P2

INDUSTRIAL DISC

Use disc type valves for high temperature and steam applications up to 25 psig. In certain areas of the country, particularly hard water localities, the integral brass seats in the solenoid valves may deteriorate very rapidly. This problem is solved

by using a stainless steel seat insert in the brass body in place of the usual brass seat. Valves from the W6 Series through the W25 Series have this feature. These valves are also equipped with teflon seating materials for long life. The W14 Series through the W25 Series are also equipped with a spring on top of the disc to assist in valve closing.

- Connection: FPT x FPT



Part No.	Connection (In.)	Port Size (In.)	Seat Material	Use Coil Model	Price
W3P1*	1/4	0.109	Brass	MKC1	\$122.94
W6P1*	3/8	3/16	Stainless	MKC1	\$156.80
W14P2*	1/2	7/16	Stainless	MKC2	\$346.68
W19P2*	3/4	19/32	Stainless	MKC2	\$510.38
W25P2*	1	25/32	Stainless	MKC2	\$788.96

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R183P1

INDUSTRIAL DIAPHRAGM

Ideal for water, most refrigerant oils, air lines to chucking devices, steam lines, etc. These valves may be mounted horizontally, on their side, or on a vertical line. These valves are tight sealing in applications of normal differential pressure. Use teflon

diaphragm type valves for high temperature and steam applications over 5 psig but do not exceed 10 psig. For applications where differential pressures in the closed position are below 5 psi, it is recommended that a Buna-N diaphragm be used in the place of the standard teflon diaphragm. In certain areas of the country, particularly hard water localities, the integral brass seats in the solenoid valves may deteriorate very rapidly. This problem is solved by using a stainless steel seat insert in place of the usual brass seat.

- For air, water, steam, light oil
- Use MKC1 coil
- Connection: FPT x FPT



Part No.	Connection (In.)	Port Size (In.)	Diaphragm	Seat Material	Price
R183P1*	3/8	9/16	Teflon	Brass	\$260.68
KBR183P1*	3/8	9/16	Buna-N	Stainless	\$281.90
R184P1*	1/2	9/16	Teflon	Brass	\$260.68
KR184P1*	1/2	9/16	Teflon	Stainless	\$281.90
BR184P1*	1/2	9/16	Buna-N	Brass	\$260.68
KBR184P1*	1/2	9/16	Buna-N	Stainless	\$281.90
R246P1*	3/4	3/4	Teflon	Brass	\$315.90
KR246P1*	3/4	3/4	Teflon	Stainless	\$345.48
BR246P1*	3/4	3/4	Buna-N	Brass	\$315.90
KBR246P1*	3/4	3/4	Buna-N	Stainless	\$345.48

RAPID CYCLE

Sporlan rapid cycle solenoid valves are designed for applications that require a solenoid valve to cycle frequently in a short period to maintain very close temperatures. An environmental test chamber using a mechanical refrigeration system is the most

common application of rapid cycle solenoid valves.

- Normally closed valve
- Connection: ODF x ODF



Part No.	Connection Size (In.)	Modification Of	Use Coil Model	Comments	Price
XUP*	3/8	E6S130	OMKC1	E	\$279.78
XRN*	1/2	B9S2	OMKC2	—	\$490.46
XRN1*	3/8	E9S230	OMKC2	E	\$500.26
XRM*	5/8	B14S2	OMKC2	—	\$568.74
XRM1*	5/8	E14S250	OMKC2	E	\$568.74
XP03*	7/8	E19S270	OMKC2	E	\$798.20

Comment Key

E = Extended Solder Ends
O = Normally Open

M = Manual Lift Stem
T = Mounting Bracket Adapter



XSP

SECONDARY COOLANT CO2, XSP SERIES

- Direct Acting, Hermetic Valves
- No gaskets eliminate source for external leaks
- Tighter seating at lower pressure differentials

- Mount Horizontally (for best performance, it is recommended to mount valve with coil in vertical position or at 45° angle)
- Extended Solder Type Connections
- Can be installed using either low or no silver content brazing alloy
- MKC-1 Coil, Class F
- Sporlan Catch-All® Filter-Drier is Recommend Upstream
- Standard connections: ODF x ODF



Part No.	Flow (Cv)	MOPD (psi)	Connection (In.)	Port Size (In.)	Overall Length (In.)	Price
XSP2S130*	0.15	300	3/8	0.062	4.56	\$113.58
XSP3S140*	0.30	100	1/2	0.101	5	\$123.32
XSP5S140*	0.48	50	1/2	0.150	5	\$123.32



S12D11C

HEAT RECLAIM

- Capacity: R22, 2 lb. pressure drop, 0°F evaporator, 100°F condensing isotropic compression +50°F, 25°F superheat suction, de-energized mode, two condenser mode in SC models

- Use B type to eliminate N.O. solenoid to suction for systems requiring reclaim condenser pump out
- Use SC type for split condenser applications
- Use MKC1 coil
- B5D5B brass body replaces steel 5D5B



Part No.	Port Size (In.)	Connection ODF (In.)	Overall Length (In.)	Overall Height (In.)	Capacity Tons (R22)	Price
B5D5B*	5/8	5/8	6.44	9.31	4.38	\$657.88
S8D7B*	3/4	7/8	6.88	10.00	9.9	\$808.06
S8D7C*	3/4	7/8	6.88	10.00	9.9	\$939.58
S8D9B*	3/4	1 1/8	6.88	10.06	9.9	\$808.06
S8D9B-SC*	3/4	1 1/8	6.88	10.31	14.5	\$1,090.88
S12D11B*	1 1/4	1 3/8	8.38	13.57	28.5	\$1,284.42
S12D11B-SC*	1 1/4	1 3/8	8.38	13.84	31.1	\$1,605.54
S12D13B*	1 1/4	1 5/8	8.38	13.57	28.5	\$1,302.62
S12D13B-SC*	1 1/4	1 5/8	8.38	13.84	31.1	\$1,605.54
S16D17B*	2	2 1/8	10.94	17.47	68.7	\$2,416.36
S16D17B-SC*	2	2 1/8	10.94	17.71	87.1	\$2,948.00

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VALVES

SOLENOID VALVE, SPORLAN



S8D7B-HP

HEAT RECLAIM, R410A

- Capacity: R410A, 2 lb. pressure drop, 100°F condensing isotropic compression plus 50°F, 30°F evaporator plus 25°F superheat suction, de-energized mode

- Use B type to eliminate N.O. solenoid to suction for systems requiring reclaim condenser pump out
- MOPD: 400 psig
- Maximum rated pressure: 650 psig
- Use MKC1 coil



Part No.	Port Size (In.)	Connection ODF (In.)	Overall Length (In.)	Overall Height (In.)	Price
SB5D5C*	5/8	5/8	6.44	9.47	\$518.52
SB5D5B*	5/8	5/8	6.44	9.47	\$518.52
S8D7B-HP*	3/4	7/8	6.88	10.06	\$777.58
S8D9B-HP*	3/4	1 1/8	6.88	10.06	\$777.58
S8D9C-HP*	3/4	1 1/8	6.88	10.06	\$777.58
S12D11B-HP*	1 1/4	1 3/8	8.38	13.57	\$1,170.32
S12D11C-HP*	1 1/4	1 3/8	8.38	13.57	\$1,170.32
S12D13B-HP*	1 1/4	1 5/8	8.38	13.57	\$1,233.80



10G711C

HOT GAS DEFROST

These 3-way valves are used for gas defrost only. One or more compressors are used to provide refrigeration for a multiple of refrigerated cases, both medium and low temperature. The 3-way valves are used to control the flow of gas off a discharge header to

the various cases or suction gas from the cases to the suction header. The 3-way valve body is take-apart construction, as is the pilot valve, and both may be completely serviced in the field. Since the pilot valve is 2-way and normally closed, the main valve failure mode from electrical failure or coil failure will be in the refrigeration mode. It should be remembered when applying these valves that the flow of discharge gas is completely blocked off when the pilot valve is de-energized. Therefore these valves can only be applied off a discharge header and not in the main discharge line.

- Connection size: 7/8" discharge, 1 3/8" suction, evaporator
- MOPD: 300 psi
- Safe working pressure: 500 psi
- Use MKC1 coil



Part No.	Setup	Overall Length (In.)	Overall Height (In.)	Price
10G711B*	Suction Upper	9.9	9.79	\$1,792.30
10G711C*	Discharge Upper	9.9	10.62	\$1,892.48



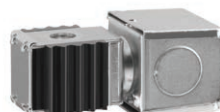
MKC2DUAL

MKC COIL

- MKC coils for normally closed solenoid valves



Part No.	Series	Voltage	Comments	Price
MKC124V*	MKC1	24 Vac	—	\$82.64
MKC112VDC*	MKC1	12 Vdc	—	\$133.42
MKC124VDC*	MKC1	24 Vdc	—	\$130.84
MKC1120V*	MKC1	120 Vac	—	\$82.64
MKC1120VCB*	MKC1	120 Vac	—	\$91.10
MKC1240V*	MKC1	208/240 Vac	—	\$82.64
MKC1DUAL*	MKC1	120/208-240 Vac	—	\$108.00
MKC224V*	MKC2	24 Vac	—	\$101.16
MKC224VCB*	MKC2	24 Vac	Conduit Boss	\$112.62
MKC212VDC*	MKC2	12 Vdc	—	\$160.10
MKC238VDC*	MKC2	38 Vdc	—	\$164.84
MKC264VDC*	MKC2	64 Vdc	—	\$164.84
MKC2120V*	MKC2	120 Vac	—	\$101.16
MKC2120VCB*	MKC2	120 Vac	Conduit Boss	\$106.22
MKC2240V*	MKC2	208/240 Vac	—	\$101.16
MKC2DUAL*	MKC2	120/208-240 Vac	—	\$129.58



OMKC1

OMKC COIL

- OMKC coils for normally open or rapid cycle solenoid valves



Part No.	Series	Voltage	Price
OMKC1120V*	OMKC1	120 Vac	\$95.70
OMKC1240V*	OMKC1	208/240 Vac	\$95.70
OMKC1240VCB*	OMKC1	208/240 Vac	\$92.04
OMKC1DUAL*	OMKC1	120/208-240 Vac	\$116.22
OMKC224V*	OMKC2	24 Vac	\$114.74
OMKC224VDC*	OMKC2	24 Vdc	\$166.42
OMKC212VDC*	OMKC2	12 Vdc	\$166.42
OMKC2120V*	OMKC2	120 Vac	\$113.62
OMKC2240V*	OMKC2	208/240 Vac	\$114.74
OMKC2DUAL*	OMKC2	120/208-240 Vac	\$143.58

*WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

SOLENOID VALVE, EMERSON



100RB2F2

100RB SERIES

Emerson 100RB Series solenoid valves are direct-acting, 2-way, normally closed valves. The 100RB is ideal for liquid or discharge gas refrigerant service.

- One coil fits all valve size
- Maximum differential pressure: 300 psig
- Maximum working pressure: 500 psig
- Port size: 1/8"
- Capacity: 1.27 tons, R22, liquid, 3 psi ΔP, 40°F evaporator
- Use AM, ASC2, DM coil

EMERSON

		Connection				
Part No.	Port Size (In.)	Size (In.)	Type	Overall Length (In.)	Comments	Price
100RB2F2*	1/8	1/4	MFL	2.88	—	\$80.30
100RB2F3*	1/8	3/8	MFL	3.25	—	\$80.30
100RB2S2*	1/8	1/4	ODF	4.63	E	\$80.30
100RB2S3*	1/8	3/8	ODF	4.63	E	\$80.30
100RB2S4*	1/8	1/2	ODF	4.63	E	\$80.30

200RB SERIES

Emerson 200RB Series solenoid valves are pilot-operated, 2-way, normally closed valves. The 200RB series is ideal for liquid or discharge gas refrigerant service.

To convert a directional flow 200RB solenoid valve to a 200RB bi-fl solenoid valve, the internal components must be replaced. All the required components are supplied in the conversion kit # KS30293.

- Maximum differential pressure: 300 psig
- Maximum working pressure: 500 psig
- Use AM, ASC2, DM coil



200RB2T2

200RB2 SERIES

- Port size: 1/8"
- Capacity: 3.1 tons R22, liquid, 3 psi ΔP, 40°F evaporator
- Coil not included

EMERSON

		Connection				
Part No.	Port Size (In.)	Size (In.)	Type	Overall Length (In.)	Comments	Price
200RB2T2*	1/8	1/4	ODF	4.63	E	\$92.96
200RB2T2T	1/8	1/4	ODF	4.63	E,T	\$94.76
200RB2T3*	3/16	3/8	ODF	4.63	E	\$92.96



200RB3F3T

200RB3 SERIES

- Port size: 3/16"
- Capacity: 4.8 tons R22, liquid, 3 psi ΔP, 40°F evaporator

EMERSON

		Connection				
Part No.	Port Size (In.)	Size (In.)	Type	Overall Length (In.)	Comments	Price
200RB3F3T*	3/16	3/8	MFL	2.94	M	\$113.00
200RB3F3*	3/16	3/8	MFL	2.94	—	\$113.00
200RB3T2*	3/16	1/4	ODF	4.63	E	\$110.84
200RB3T3*	3/16	3/8	ODF	4.63	E	\$110.84
200RB3T3T*	3/16	3/8	ODF	4.63	E,T	\$113.00
200RB3T4*	3/16	1/2	ODF	4.63	E	\$110.84
200RB3T4M*	3/16	1/2	ODF	4.63	E, M	\$151.68



200RB4F3T

200RB4 SERIES

- Port size: 1/4"
- Capacity: 5.6 tons, R22, liquid, 3 psi ΔP, 40°F evaporator
- Use AM, ASC2, DM coil

EMERSON

	Connection				
Part No.	Size (In.)	Type	Overall Length (In.)	Comments	Price
200RB4F3*	3/8	MFL	2.94	—	\$141.48
200RB4F3T*	3/8	MFL	2.94	T	\$144.26
200RB4P3T*	3/8	FPT	2.38	T	\$141.80
200RB4S3T*	3/8	ODF	2.38	T	\$144.26
200RB4S4*	1/2	ODF	2.38	—	\$141.48
200RB4S4T*	1/2	ODF	2.38	T	\$144.26
200RB4T3T*	3/8	ODF	4.63	E	\$144.26
200RB4T4*	1/2	ODF	5	E	\$141.48
200RB4T4T*	1/2	ODF	5	T, E	\$144.26
200RB4F3M*	3/8	MFL	2.94	M	\$183.12
200RB4S3M*	3/8	ODF	2.38	M	\$179.58
200RB4S4M*	1/2	ODF	2.38	M	\$179.58
200RB4T3M*	3/8	ODF	—	M,E	\$179.58
200RB4T4M*	1/2	ODF	5	M,E	\$179.58

Comment Key

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O = Normally Open

M = Manual Lift Stem
T = Mounting Bracket Adapter



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SOLENOID VALVE, EMERSON



200RB5S4T

200RB5 SERIES

- Port size: 5/16"
- Capacity: 8.2 tons, R22, liquid, 3 psi ΔP, 40°F evaporator
- Use AM, ASC2, DM coil



Connection		Overall Length (In.)	Comments	Price
Part No.	Type			
200RB5F4T*	MFL	3.31	T	\$179.94
200RB5F5T*	MFL	3.56	T	\$179.94
200RB5S4T*	ODF	2.38	T	\$179.94
200RB5S4*	ODF	2.38	—	\$176.50
200RB5S5T*	ODF	2.38	T	\$179.94
200RB5T3*	ODF	4.63	E	\$176.50
200RB5T4*	ODF	5	E	\$176.50
200RB5T4T*	ODF	5	T,E	\$179.94
200RB5T5*	ODF	6.50	E	\$176.50
200RB5T5T*	ODF	6.50	T, E	\$179.94
200RB5F4M*	MFL	3.31	M	\$219.70
200RB5S4M*	ODF	2.38	M	\$215.50
200RB5S5M*	ODF	2.38	M	\$215.50
200RB5T4M*	ODF	5	M,E	\$209.08
200RB5T5M*	ODF	6.50	M,E	\$219.58



200RB6S5M

200RB6 SERIES

- Port size: 3/8"
- Capacity: 10.0 tons, R22, liquid, 3 psi ΔP, 40°F evaporator
- Use AM, ASC2, DM coil



Connection		Overall Length (In.)	Comments	Price
Part No.	Type			
200RB6F4T*	MFL	3.31	T	\$179.94
200RB6S4T*	ODF	2.38	T	\$179.94
200RB6S5*	ODF	2.38	—	\$176.50
200RB6S5T*	ODF	2.38	T	\$179.94
200RB6T4T*	ODF	5.00	T, E	\$179.94
200RB6T5*	ODF	6.50	E	\$176.50
200RB6T5T*	ODF	6.50	T, E	\$179.94
200RB6F4M*	MFL	3.31	M	\$219.70
200RB6F5M*	MFL	3.56	M	\$219.70
200RB6S4M*	ODF	2.38	M	\$215.50
200RB6S5M*	ODF	2.38	M	\$215.50
200RB6T4M*	ODF	5.00	M,E	\$215.50
200RB6T5M*	ODF	6.50	M,E	\$215.50



200RB7T5M

200RB7 SERIES

- Port size: 7/16"
- Capacity: 15.6 tons, R22, liquid, 3 psi ΔP, 40°F evaporator
- Use AM, ASC2, DM coil



Connection		Overall Length (In.)	Comments	Price
Part No.	Type			
200RB7T5*	ODF	6.88	E	\$184.30
200RB7T5M*	ODF	6.88	E,M	\$221.96
200RB7T7T*	ODF	6.88	T,E	\$203.46



240RA12T9T

240RA SERIES

Emerson 240RA Series solenoid valves are 2-way, normally closed diaphragm valves.

- Can be brazed into the line without disassembly

- Reinforced teflon diaphragm with woven fiberglass for superior control
- Extended ends for easy installation (standard)
- Connection: ODF x ODF extended solder ends
- Capacities at R22 liquid: 3 psi ΔP, 40°F evaporator
- Maximum differential pressure: 300 psig
- Maximum working pressure: 500 psig
- Use AM, ASC2, DM coil



Part No.	Port Size (In.)	Capacity (Tons)	Connec- tion (In.)	Overall Length (In.)	Comments	Price
240RA8T5T*	1/2	15.6	5/8	6.88	T,E	\$188.46
240RA8T7T*	1/2	15.6	7/8	7.13	T,E	\$188.46
240RA9T5T*	9/16	23.3	5/8	6.88	T,E	\$283.40
240RA9T7T*	9/16	30.5	7/8	7.13	T,E	\$283.40
240RA9T9T*	9/16	30.5	1 1/8	6.88	T,E	\$283.40
240RA12T7T*	3/4	34.9	7/8	7.50	T,E	\$411.74
240RA12T9T*	3/4	34.9	1 1/8	8.50	T,E	\$411.74
240RA16T11T*	1	58.0	1 3/8	11.06	T,E	\$602.06
240RA16T9T*	1	58.0	1 1/8	9.06	T,E	\$574.82
240RA20T13T*	1 1/4	95.4	1 5/8	12.38	T,E	\$1,078.34
240RA8T5M*	1/2	15.6	5/8	6.88	M,E	\$209.56
240RA8T7M*	1/2	15.6	7/8	7.13	M,E	\$209.56
240RA9T5M*	9/16	23.3	5/8	7.13	M,E	\$318.98
240RA9T7M*	9/16	30.5	7/8	7.13	M,E	\$318.98
240RA9T9M*	9/16	30.5	1 1/8	8.50	M,E	\$318.98
240RA12T7M*	3/4	34.9	7/8	7.50	M,E	\$446.78
240RA12T9M*	3/4	34.9	1 1/8	8.50	M,E	\$446.78
240RA16T11M*	1	58.0	1 3/8	11.06	M,E	\$636.14
240RA20T13M*	1 1/4	95.4	1 5/8	12.38	M,E	\$1,127.12
240RA20T17M*	1 1/4	95.4	2 1/8	13.75	M, E	\$1,112.98

Comment Key

E = Extended Solder Ends
O = Normally Open

M = Manual Lift Stem
T = Mounting Bracket Adapter

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540RA9T7T

540RA SERIES, NORMALLY OPEN

Emerson 540RA Series solenoid valves are 2-way, normally open diaphragm valves.

- Capacity: R22 liquid line, 3 psi ΔP, 40°F evaporator

- Maximum differential pressure: 300 psig
- Use AM, ASC2, DM coil
- Connection type: ODS



Part No.	Port Size (In.)	Capacity (Tons)	Connec-tion(In.)	Overall Length (In.)	Price
540RA9T7T*	9/16	30.5	7/8	7.13	\$455.04
540RA12T7T*	3/4	34.9	7/8	7.50	\$608.60



AMG120V

COIL, JUNCTION BOX

- Standard coil
- Junction box
- 6-In. lead



Part No.	Coil Voltage	Price
AMG24V*	24 Vac	\$79.20
AMG24VDC*	24 VDC	\$101.52
AMG120V*	120	\$79.20
AMG240V*	240	\$79.20
AMGDUAL*	120/240	\$101.52
AMG480V*	480	\$101.52
AHG240* ¹	240	\$148.34

¹High Temperature Applications



AMC120V

COIL, CONDUIT

- Conduit boss coil
- 1/2-In. conduit
- 18-In. lead



Part No.	Coil Voltage	Price
AMC120V*	120	\$81.88
AMC240V*	240	\$99.90
AMCDUAL*	120/240	\$129.82



AMF240V

COIL, OPEN FRAME

- Open frame
- 18-In. lead



Part No.	Coil Voltage	Price
AMF24V*	24 Vac	\$73.44
AMF120V*	120	\$73.44
AMF240V*	240	\$73.44
AMF120/240V*	120/240	\$101.52

SOLENOID VALVE, DANFOSS



018F4102

COIL, CONDUIT BOSS

BJ and BX are a series of coils with UL approval. The coils are designed to be used with Danfoss electric expansion and solenoid valves.

- High reliability and long lifetime
- Easy mounting and dismounting

- UL approved coil range
- Covering standard voltage and frequency
- Two electrical connection versions

ENGINEERING
TOMORROW



Part No.	Voltage	Wire Size (In.)	Price
018F4102	24	18	\$73.70
018F4104	24	98	\$83.48
018F4112	110	18	\$73.70
018F4115	110-120	98	\$83.48
018F4122	208-240	18	\$73.70



018F4100

COIL, JUNCTION BOX

General Purpose coils for 13.5 mm armature, 17.5W ac, BTxxxCS Series

- Junction box
- Ambient temperature: Up to 120°F
- IP 32 / NEMA 2
- For UL listed valves

ENGINEERING
TOMORROW



Part No.	Voltage	Price
018F4100	24	\$73.70
018F4110	110	\$73.70
018F4120	208-240	\$73.70

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VALVES

SOLENOID VALVE, DANFOSS



018F7658

COIL, DIN SPADE

BYxxxCS, High performance UL recognised coils
Compact coil for valve range B, 13.5 mm armature, 14W ac

- Traditional fastening or clip-on system for fast, easy fitting and removal

- Ambient temperature: Up to +50°C / +120°F
- IP 65 / NEMA 4
- For UL recognised valves

ENGINEERING
TOMORROW



Part No.	Voltage	Price
018F7655	24	☎
018F7663	120	\$48.14
018F7658	208-240	\$47.16



EVR2-3

EVR SOLENOID

- MOPD assumes AC coil, 40 psi less for DC coil (110 psi less for DC EVR20, EVR22)
- 032F8100 series valves are normally open
- Capacity R22 liquid

ENGINEERING
TOMORROW



Part No.	Liquid Capacity (Tons)	Connection ODF (In.)	Overall Length (In.)	Comments	Price
032F1206*	1.66	1/4	3.98	—	\$96.58
032F1204*	1.66	3/8	4.62	—	\$96.58
032L7110*	4.18	3/8	4.61	—	\$122.10
032L7111*	4.18	3/8	4.61	—	\$131.44
032L7116*	5.47	3/8	4.37	M	\$217.30
032L1209*	5.47	1/2	5	—	\$117.12
032L7144*	5.47	1/2	5	M	\$217.36
032L7121*	6.52	1/2	5	—	\$127.94
032L7148*	6.52	1/2	5	M	\$255.40
032L1214*	11.5	5/8	6.42	—	\$136.60
032L7149*	11.5	5/8	6.42	M	\$246.38
032L1227*	17.71	5/8	6.85	M	\$294.02
032L1225*	17.71	7/8	6.85	—	\$211.76
032L1004*	23.18	7/8	7.05	M	\$324.74
032L7137*	41.93	1 1/8	8.74	M	\$569.08
032L1254	36.76	7/8	7 1/2	M	\$448.62
032F1176	36.4	7/8	7 1/2	—	☎
032F7145	43.7	1 1/8	10 1/16	—	☎
032F1193	72.8	1 3/8	11 1/16	—	☎
032L2207	60.19	1 3/8	11 1/16	M	\$721.80
032L2200	60.19	1 3/8	11 1/16	-	\$724.90
042H1179	116.5	1 5/8	N/A	M	☎
042H1178	116.5	1 5/8	N/A	—	☎

Comment Key

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T = Mounting Bracket Adapter

SOLENOID MAGNET



066019

MAGNET

The Solenoid Multi-Purpose Tool performs three distinct functions:

- It's a magnetic tool that operates the valve without having to energize the coil (up to 300 psi ΔP)
- It's a spanner wrench for a 3/8" ratchet drive that enables easier valve disassembly while protecting the enclosing tube (prongs align with collar recesses)
- It's an adjustment tool that quickly opens a valve with a manual stem.



Part No.	Description	Price
066019*	Magnetic Solenoid Opener	\$182.98



TLMKC18

MAGNET

Designed to manually open solenoid valves by magnetically lifting the stem assembly and plunger. Simply slide the TLMKC18 over the valve's enclosing tube and the industrial grade magnets incorporated inside the rugged ABS plastic housing do the rest. It is an

ideal tool for trouble-shooting / servicing both direct connected or pilot operated 2-way solenoid, 3-way reclaim or 4-way reversing valves.

- 3/4" opening fits all common manufactured valve



Part No.	Description	Price
TLMKC18	Magnetic Solenoid Opener	\$62.40



018FMAGNET

ENGINEERING
TOMORROW



MAGNETIC SOLENOID OPENER

Part No.	Description	Price
018F0091	Magnetic Solenoid Opener, Permanent Magnet	\$94.20

☎ Please contact your local United Refrigeration Branch or our Customer Service Center for pricing.

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

SOLENOID REPAIR KIT



SOLENOID

200RB repair kits include enclosing tube assembly, plunger spring, plunger assembly, gasket and piston assembly. 240A repair kits include enclosing tube assembly, spring, plunger spring, plunger enclosing tube gasket, hold down spring, diaphragm assembly and pilot gasket.



Part No.	Description	Applicable Valve	Price
KS30386*	Repair Kit	200RD2-200RD6	\$127.40
KS30387*	Bi-Flow Kit	200RD2-6	\$75.58
KS30321*	Repair Kit	240RA8	\$153.32
KS30322*	Repair Kit	240RA9	\$155.66
KS30323*	Repair Kit	240RA12	\$155.78
KS30324*	Repair Kit	240RA16	\$164.32
KS30325*	Repair Kit	240RA20	\$267.72
KS30066*	Manual Opener Kit	240RA9	\$96.92
KS30067*	Manual Opener Kit	240RA12	\$94.66
KS30068*	Manual Opener Kit	240RA16	\$96.92
KS30098*	Manual Opener Kit	240RA20	\$110.80



B, E SERIES, R410A

- Includes: stem and plunger assembly, disc assembly, enclosing tube gasket, kick off spring, enclosing tube
- For R410A solenoid valves



Part No.	Applicable Valve	Price
KSB6/E6HP*	(M)B6/(M)E6-HP	\$142.90
KSB9/E9HP*	(M)B9/(M)E9-HP	\$158.10
KSB10/E10HP*	(M)B10/(M)E10-HP	\$163.00
KSB14/E14HP*	(M)B14/(M)E14-HP	\$178.94
KSB19/E19HP*	(M)B19/(M)E19-HP	\$240.04
KSB25/E25HP*	(M)B25/(M)E25-HP	\$343.84



CHECK VALVE SOLENOIDS

- Includes: stem and plunger assembly, disc assembly, enclosing tube gasket, kick off spring, enclosing tube



Part No.	Applicable Valve	Price
KSCB9*	C(M)B9/C(M)E9	\$259.00
KSCB10*	C(M)B10/C(M)E10	\$266.36
KSCB14*	C(M)B14/C(M)E14	\$284.76
KSCB19*	C(M)B19/C(M)E19	\$348.80



LARGE PORT

- Includes: stem and plunger assembly, piston assembly, enclosing tube O-ring



Part No.	Applicable Valve	Comments	Price
KSE35HP*	(M)E35-HP	—	\$623.10
KSE42HP*	(M)E42-HP	Includes Closing Spring	\$961.76



INDUSTRIAL, DISC

- Includes: plunger assembly, enclosing tube O-ring, disc assembly, enclosing tube tetralseal, stem and plunger assembly (W14, W19, W25 only)



Part No.	Applicable Valve	Price
KSW3*	W3	\$90.32
KSW6*	W6	\$130.30
KSW14*	W14	\$199.10
KSW19*	W19	\$254.26
KSW25*	W25	\$364.50



INDUSTRIAL, DIAPHRAGM

- Includes: plunger assembly, diaphragm, enclosing tube tetralseal



Part No.	Applicable Valve	Price
KSR18*	R18/KR18	\$122.50
KSR24*	R24/KR24	\$129.66
KSBR18*	BR18/KBR18	\$122.50
KSBR24*	BR24/KBR24	\$129.66



RAPID CYCLE

- Includes: stem and plunger assembly, disc assembly, enclosing tube assembly, coil housing locknut, spacer ring and cup, tetralseal, nameplate



Part No.	Applicable Valve	Price
KSXUP*	XUP	\$186.86
KSXRM*	XRM	\$280.86
KSXRN*	XRN	\$288.96

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VALVES

SOLENOID REPAIR KIT



KSOE3420

LARGE PORT, NORMALLY OPEN

- Includes: upper valve assembly, piston assembly, closing spring, body flange tetriseal, spacer cup and ring, body flange gasket



Part No.	Applicable Valve	Price
KSOE35*	OE35	\$879.36
KSOE42*	OE42	\$1,024.16



KS12DB

HEAT RECLAIM

- KS kits include: enclosing tube tetriseal, stem and seat assembly, piston assembly, lower body O-ring
- KE enclosing tube kit includes: enclosing tube assembly, enclosing tube gasket, coil housing screw, body screws



Part No.	Applicable Valve	Price
KS8DB*	8D7B/8D9B	\$385.14
KS12DB*	12D11B/12D13B	\$581.20
KS16DB*	16D17B	\$918.10
KE8D/12D*	8D/12D	\$101.44



032F0181

EVR REPAIR KITS

Includes diaphragm assembly, armature assembly, rubber gasket, screws, torx key, snap fastener, nut



Part No.	Applicable Valve	Price
032F0181	EVR2, EVR3	\$114.26
032F8166	EVR6	\$98.94
032F0185	EVR10	\$112.60

EVR GASKET KITS



Part No.	Applicable Valve	Price
032F0222	EVR10 (NO,NC)	
032F0223	EVR15 (NO,NC), EVR18	
032F0224	EVR20, EVR22	

DISCHARGE BYPASS

Discharge bypass valves open on decrease in suction pressure to maintain a minimum evaporation pressure. The flow to the bypass valve is controlled by a solenoid valve. Discharge valves are preferably piped from the compressor discharge to the evaporator inlet using an auxiliary side connector but can also be piped to the suction line.



ADRS2

1/4" PORT, ADJUSTABLE

- Adjustable model
- Overall height: 6.44"
- Valve capacity:
0/80 26°F evaporator, 100°F condensing—3.45 tons,
0/30 -20°F evaporator, 100°F condensing—3.63 tons



- Capacity based on 6°F evaporator temperature change, 25°F superheat, 0°F subcooling, R22

Part No.	Connection		Pressure Range (psi)			Price
	Size (In.)	Type		Equalizer		
ADRS2*	3/8	ODF	0 to 80	Internal		\$442.38
ADRS20/80*	1/2	ODF	0 to 80	Internal		\$442.38
ADRSE238*	3/8	ODF	0 to 80	1/4 ODF		\$377.96
ADRSE258*	5/8	ODF	0 to 80	1/4 ODF		\$415.38
ADRSE2*	1/2	ODF	0 to 80	1/4 ODF		\$377.96
ADRSE20/30*	1/2	ODF	0 to 30	1/4 ODF		\$470.94



ADRPE3

3/8" PORT, ADJUSTABLE

- Adjustable model
- Overall height: 6.94"
- Connection: ODF
- Valve capacity:
0/80 26°F evaporator, 100°F condensing—6.06 tons
0/30 -20°F evaporator, 100°F condensing—7.23 tons



- Capacity based on 6°F evaporator temperature change, 25°F superheat, 0°F subcooling, R22

Part No.	Connection		Pressure Range (psi)			Price
	Size (In.)	Type		Equalizer		
ADRPE3*	5/8	ODF	0 to 80	1/4 ODF		\$428.96
ADRPE30/30*	5/8	ODF	0 to 30	1/4 ODF		\$544.94

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3/4" PORT, ADJUSTABLE

- Adjustable model
- Overall height: 7.06", width 9.24"
- Valve capacity:
0/80 26°F evaporator, 100°F condensing-9.58 tons
0/30 -20°F evaporator, 100°F condensing-13.7 tons

- Capacity based on 6°F evaporator temperature change, 25°F superheat, 0°F subcooling, R22



Connection					
Part No.	Size (In.)	Type	Pressure Range (psi)	Equalizer	Price
ADRHE658*	5/8	ODF	0 to 80	1/4 ODF	\$866.36
ADRHE6*	7/8	ODF	0 to 80	1/4 ODF	\$866.36
ADRHE60/30*	7/8	ODF	0 to 30	1/4 ODF	\$998.20
ADRHE6118*	1 1/8	ODF	0 to 80	1/4 ODF	\$998.20



REMOTE BULB, ADJUSTABLE, 3/4" PORT

- Adjustable remote bulb model
- Overall height: 4.88", width 9.24"
- External equalizer: 1/4" ODF
- Connection: ODF
- Valve capacity: 55/70 26°F evaporator, 100°F condensing-16.4 tons

- Capacity based on 6°F evaporator temperature change, 25°F superheat, 0°F subcooling, R22



Connection					
Part No.	Size (In.)	Type	Pressure Range (psi)	Equalizer	Price
DRHE6AR5855*	5/8	ODF	55 to 70	1/4 ODF	\$1,076.74
DRHE625/35AR*	7/8	ODF	25 to 35	1/4 ODF	\$1,076.74
DRHE655/70AR*	7/8	ODF	55 to 70	1/4 ODF	\$1,076.74
DRHE6AR125*	1 1/8	ODF	25 to 35	1/4 ODF	\$1,076.74
DRHE6AR155*	1 1/8	ODF	55 to 70	1/4 ODF	\$1,076.74



R410A, ADJUSTABLE

- Adjustable model
- External equalizer: 1/4 ODF
- Connection: ODF
- Capacities are valve capacity based on 6°F evaporator temperature change, discharge temperatures 50°F above isentropic compression, 25°F superheat, 10°F subcooling, R410A

compression, 25°F superheat, 10°F subcooling, R410A



Connection					
Part No.	Adjustment Range (psi)	Size (In.)	Type	Equalizer	Price
HGBE5-3/8*	95 - 115	3/8	ODF	1/4 ODF	\$445.52
HGBE5-1/2*	95 - 115	1/2	ODF	1/4 ODF	\$445.52
HGBE5-5/8*	95 - 115	5/8	ODF	1/4 ODF	\$445.52
HGBE6-95/115*	95 - 115	7/8	ODF	1/4 ODF	\$608.20
HGBE8-7/8*	75 - 150	7/8	ODF	1/4 ODF	\$924.16
HGBE8-1-1/8*	75 - 150	1 1/8	ODF	1/4 ODF	\$1,086.68

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REFRIGERATION & AIR CONDITIONING ACCESSORIES



BYPASS VALVE ELEMENT

- Used to replace defective element or change application on existing valve



Part No.	Fits Valve	Adjustment Range (psi)	Price
A30/30*	ADRP/ADRH	0 - 30	\$266.66
A30/80*	ADRP/ADRH	0 - 80	\$266.66
A80/30*	ADRS	0 - 30	\$258.04
A80/80*	ADRS	0 - 80	\$258.04



BYPASS VALVE ELEMENT

- Used to replace defective element or change application on existing valve



Part No.	Fits Valve	Adjustment Range (psi)	Price
B3H25/35AR*	DRH	25 - 35	\$428.14
B3H55/70AR*	DRH	55 - 70	\$428.14
B3P55/70AR*	DRP	55 - 70	\$428.14



ADJUSTABLE

- Superior control accuracy
- Provides protection against too low an evaporator temperature
- Direct connection to system suction line
- For use with CFC, HCFC and HFC refrigerants

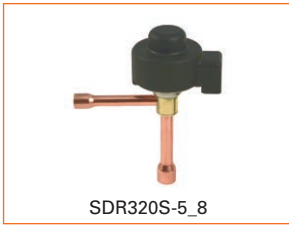
- Regulation range: 0 to 85 psig
- Factory setting: 5.8 psig
- Maximum working pressure MWP : 400 psig
- Maximum differential pressure: 260 psig
- Maximum test pressure: 450 psig
- Maximum media temperature: 285°F
- Minimum media temperature:-50°F
- 1/4" flare pilot connectio
- Rated capacity R407C, minimum suction temperature: 15°F, condensing temperature: 100°F, expansion valve superheat: 7°F
- Approvals: UL listed, file SA7200 ; CSA approved



			Connection		
Part No.	Adjustment Range (psi)	Capacity (Tons)	Size (In.)	Type	Price
034N0081*	0 to 85	6.7	1/2	MFL	\$433.66
034N0082*	0 to 85	6.7	1/2	ODF	\$419.22
034N0083*	0 to 85	9.9	5/8	ODF	\$419.22
034N0084	0 to 85	13.2	7/8	ODF	

VALVES

DISCHARGE BYPASS



SDR320S-5_8

ELECTRONIC

Performs bypass/capacity control function of traditional valves with proven step motor technology.

- ODF connections



Part No.	Connection		Price
	Size (In.)		
SDR320S-3/8*	3/8		\$900.32
SDR320S-1/2*	1/2		\$900.32
SDR320S-5/8*	5/8		\$900.32
SDR420S-7/8*	7/8		\$1,246.48
SDR420S-1-1/8*	1 1/8		\$1,246.48

DISTRIBUTOR ACCESSORIES



ASC95

SIDE CONNECTOR

Auxiliary side connectors permit the conversion of conventional Sporlan refrigerant distributors to hot gas bypass, hot gas defrost or reverse cycle (heat pump) service.

- Connection: ODM inlet x ODF outlet x ODF auxiliary



Part No.	Nozzle Type	Overall Length (In.)	Connection (In.)			Price
			Inlet	Outlet	Auxiliary	
ASC54*	J	1.88	5/8	5/8	1/2	\$138.68
ASC74*	G	2.25	7/8	7/8	1/2	\$191.04
ASC95*	E	2.81	1 1/8	1 1/8	5/8	\$194.64
ASC117*	C	3.53	1 3/8	1 3/8	7/8	\$256.30
ASC139*	A	3.72	1 5/8	1 5/8	1 1/8	\$357.58

PRESSURE REGULATOR



ORI678HP

CONDENSER FLOOD CONTROL

- Adjustable
- Used with ORD4 differential valve to flood condenser for low ambient control
- Pressure range: 65-225psi
- Connection: ODF inlet x ODF outlet 90°



- Capacity at 2 lbs. ΔP R22 liquid flo
- Opens on rise of inlet pressure

Part No.	Port Size (In.)	Capacity (Tons)	Connection (In.)	Length (In.)	Price
ORI658HP*	3/4	12.0	5/8	9.85	\$405.74
ORI678HP*	3/4	12.0	7/8	9.85	\$418.06
ORI6118HP*	3/4	12.0	1 1/8	9.85	\$418.06
ORI10118HP*	1 1/4	24.0	1 1/8	11.04	\$738.70
ORI10138HP*	1 1/4	24.0	1 3/8	11.04	\$738.70



ORD420

DIFFERENTIAL PRESSURE

- Used to maintain receiver pressure during operation of ORIHP valve
- Pressure drop is maximum design between compressor and receiver
- Overall length: 6.56"
- Connection size: 5/8" ODF



Part No.	Pressure Drop (psi)	Valve Setting (psi)	Price
ORD420*	<14	20	\$153.58
ORD425*	15 - 19	25	\$156.64
ORD430*	20 - 24	30	\$156.64
ORD435*	25 - 29	35	\$156.64

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OROAB558180

HEAD PRESSURE

- Nonadjustable
- Receiver pressure must be specific
- Pressure drop is maximum design between compressor and receiver
- Discharge size: 5/8" ODF
- Condenser/Receiver size: 5/8 or 7/8" ODF

- Connection: ODF discharge (inlet) x condenser (inlet) x receiver (outlet)
- Capacity: 2 lbs. ΔP, R22 14.5 tons liquid flow
- Use 100 psi for R12, 180 psi for R22
- Condenser fans should not be cycled when using this type of control. The sudden changes in high side pressure will result in erratic TXV performance and shorten the life of the head pressure control



Part No.	Pressure Drop (psi)	Receiver Pressure (psi)	Connection (In.)	Overall Length (In.)	Price
OROAB558180*	<14	180	5/8 x 5/8 x 5/8	5.94	\$446.06
OROAB578210*	<14	210	5/8 x 7/8 x 7/8	6.19	\$539.62
OROAB558100*	15 - 19	100	5/8 x 5/8 x 5/8	5.94	\$539.62
OROAB558180*	15 - 19	180	5/8 x 5/8 x 5/8	5.94	\$446.06
OROAB578100*	15 - 19	100	5/8 x 7/8 x 7/8	6.19	\$539.62
OROAB578180*	15 - 19	180	5/8 x 7/8 x 7/8	6.19	\$539.62
OROAB578210*	15 - 19	210	5/8 x 7/8 x 7/8	6.19	\$539.62



LAC4180

HEAD PRESSURE

- Small capacity flooded head pressure control
- Connection: ODF discharge (inlet) x condenser (inlet) x receiver (outlet)
- Connection sizes available: 1/4", 3/8" and 1/2" (LAC4100 and 4215)

- Use 100 psi for R12, 180 psi for R22, 210-215 psi for R404A



Part No.	Receiver Pressure (psi)	Connection (In.)	Price
LAC4100*	100	3/8	\$267.06
LAC4148-3/8*	148	3/8	\$323.10
LAC4180-3/8*	180	3/8	\$267.06
LAC4180*	180	1/2	\$267.06
LAC4210-3/8*	210	3/8	\$323.10
LAC4215*	215	3/8	\$267.06
LAC-4-220*	220	3/8	\$323.10



LAC10295HP-11X9

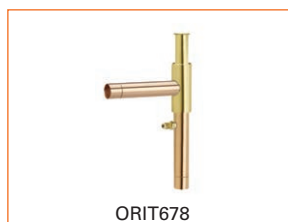
HEAD PRESSURE

- Small capacity flooded head pressure control
- Capacity winter rated: 2 lbs. ΔP, 0°F evaporator, 94°F condenser, 10°F subcooled liquid, 0°F ambient, R410A

- Connection: ODF discharge (inlet) x condenser (inlet) x receiver (outlet)



Part No.	Capacity (Tons)	Receiver Pressure (psi)	Connection (In.)	Price
LAC4295HP*	2.65	295	1/2	\$332.42
LAC5295HP*	4.71	295	5/8	\$557.38
LAC10295HP-11X7*	8.79	295	1 3/8 x 7/8 x 7/8	\$971.22
LAC10295HP-11X9*	8.79	295	1 3/8 x 1 1/8 x 1 1/8	\$971.22



ORIT678

EVAPORATOR

The primary function of this type of valve is to prevent the evaporator pressure from falling below a predetermined value at which the valve has been set. The 0-50 range is suitable for most applications while the 30-100 range is necessary for those R502 (404A)

applications with evaporator temperature >20°F.

- Capacity: R502, 5 psi valve ΔP, 0°F evaporator, 100°F condensing, 10°F superheat; 8 psi evap ΔP-0/50, 1.05 tons; 12 psi evap ΔP-30/100, 2.50 tons
- Opens on rise of inlet pressure
- All units have an access valve connection on inlet side
- Connection: M Flare SAE or ODF, 90°



Part No.	Connection		Operating Range (psi)	Overall Length (In.)	Price
	Size (In.)	Type			
ORIT612S*	1/2	ODF	0 - 50	6.41	\$526.36
ORIT612*	1/2	SAE	0 - 50	6.41	\$526.36
ORIT61230*	1/2	SAE	30 - 100	6.41	\$526.36
ORIT658S*	5/8	ODF	0 - 50	9.75	\$426.68
ORIT658FL*	5/8	SAE	0 - 50	6.38	\$526.36
ORIT65830*	5/8	ODF	30 - 100	6.38	\$426.68
ORIT678*	7/8	ODF	0 - 50	9.75	\$526.36
ORIT67830*	7/8	ODF	30 - 100	9.75	\$426.68
ORIT6118*	1 1/8	ODF	0 - 50	9.75	\$526.36
ORIT611830*	1 1/8	ODF	30 - 100	9.75	\$526.36
ORIT1078*	7/8	ODF	0 - 50	11.19	\$743.58
ORIT107830*	7/8	ODF	30 - 100	11.19	\$743.58
ORIT10118*	1 1/8	ODF	0 - 50	11.19	\$743.58
ORIT1011830*	1 1/8	ODF	30 - 100	11.19	\$743.58
ORIT10138*	1 3/8	ODF	0 - 50	11.19	\$743.58
ORIT1013830*	1 3/8	ODF	30 - 100	11.19	\$743.58



*WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

VALVES

PRESSURE REGULATOR

CPR VALVE

Crankcase pressure regulating valves are designed to prevent overloading of the compressor motor by limiting the crankcase pressure during and after a defrost cycle or after a normal shutdown period.



CRO412S0_50

CRANKCASE

- Adjustable crankcase pressure regulator, closes on rise of outlet pressure
- Overall height: 4.90"
- Capacity approximately .5 tons



Connection		Type	Adjustment Range (psi)	Price
Part No.	Size (In.)			
CRO412S0/20*	1/2	ODF	0 - 20	\$309.94
CRO412S0/50*	1/2	ODF	0 - 50	\$374.84
CRO438S0/50*	3/8	ODF	0 - 50	\$374.84



CRO612FL

CRANKCASE

The function of the crankcase pressure regulating valve is similar to the practice of manually throttling the compressor suction service valve until the machine can handle the load.

- Closes on rise of outlet pressure

- Connection: M Flare SAE or ODF, 90°
- Capacity: R22, 100°F condensing, 10°F superheat, 0°F subcooling, -10°F evaporator, CRO6—0.66 tons, CRO10—2.23 tons

- Valve set at 30 psi, 1 lb. Δ P

CAUTION

Do not use with pressure limit expansion valves as similar pressure settings may greatly extend pulldown time.



	Connection					
Part No.	Size (In.)	Type	Capacity (Tons)	Overall Length (In.)	Adjustment Range (psi)	Price
CRO612FL*	1/2	SAE	0.66	6.19	0 - 60	\$430.88
CRO658FL*	5/8	SAE	0.66	6.37	0 - 60	\$430.88
CRO658S*	5/8	ODF	0.66	9.82	0 - 60	\$430.88
CRO658S30*	5/8	ODF	0.66	9.82	30 - 110	\$430.88
CRO678*	7/8	ODF	0.66	9.82	0 - 60	\$430.88
CRO67830*	7/8	ODF	0.66	9.82	30 - 110	\$430.88
CRO1078*	7/8	ODF	2.23	11.01	0 - 60	\$624.74
CRO10138*	1 3/8	ODF	2.23	11.01	0 - 60	\$624.74



CROT658FL

CRANKCASE, ACCESS

Same characteristics as CRO valve
T indicates 1/4 SAE access fitting on inlet side of valve



Connection		Type	Overall Length (In.)	Adjustment Range (psi)	Price
Part No.	Size (In.)				
CROT612FL*	1/2	SAE	6.19	0 - 60	\$424.78
CROT612S*	1/2	ODF	9.82	0 - 60	\$386.54
CROT658FL*	5/8	SAE	6.37	0 - 60	\$424.78
CROT658S*	5/8	ODF	9.82	0 - 60	\$386.54
CROT658S30*	5/8	ODF	9.82	30 - 110	\$386.54
CROT678*	7/8	ODF	9.82	0 - 60	\$386.54
CROT6118*	1 1/8	ODF	9.82	0 - 60	\$424.78
CROT1078*	7/8	ODF	11.01	0 - 60	\$542.26
CROT107830*	7/8	ODF	11.01	0 - 60	\$542.26
CROT10118*	1 1/8	ODF	11.01	0 - 60	\$542.26
CROT1011830*	1 1/8	ODF	11.01	30 - 110	\$595.84
CROT10138*	1 3/8	ODF	11.01	0 - 60	\$542.26



SHGBE15

DISCHARGE BYPASS

The SHGB(E) valves are adjustable, pilot operated, discharge bypass valves that Sporlan developed for use on larger capacity systems such as chillers and large air handling units that require system capacity control.

The S-valve opens on a decrease in

suction pressure and can be set to automatically maintain a desired minimum evaporating pressure regardless of the decrease in evaporator load. The solenoid stop feature on this valve allows it to be closed for system pumpdown with no need for an additional hot gas solenoid valve.

- Connection: ODF inlet x ODF outlet
- External equalizer: 1/4 SAE
- Valve capacity: discharge 50°F above isentropic compression, 10°F subcooling, fully open R22, 26°F minimum evaporation at reduced load, 100°F condensing, SHGBE—15.9 tons, SHGBE15—65.0 tons



Part No.	Connection (In.)	Overall Length (In.)	Price
SHGBE8*	1 1/8	9.32	\$1,047.58
SHGBE15*	1 3/8	11.00	\$1,611.52
SHGBE15118*	1 1/8	11.00	\$1,611.52

*WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

(S)ORIT

This control is a nonelectric regulator which uses high-side system pressure as a source of operating power for evaporator pressure regulation. The use of highside pressure, regulated by a pilot valve, allows operation of the primary port at previously unattainable low pressure drops. These low pressure differentials are directly related to energy savings. The pilot automatic regulator allows convenient adjustability of the evaporator pressure.

- Opens on rise of inlet pressure
- Use the S ORIT solenoid stop feature for hot gas defrost applications to allow full open operation after defrost for fast pulldown
- Capacities based on 60° saturated liquid, 0°F superheat at evaporator, 25°F superheated return gas, R404A, 0°F evaporator temperature, 2 psi ΔP
- Pressure range: 0-100 psi



ORIT12

EVAPORATOR

Part No.	Connection		Capacity (Tons)	Dimensions (In)		Price
	Size (In.)	Type		L	H	
ORIT12*	1 1/8	ODF	2.52	8.50	5.71	\$1,203.52
ORIT15*	1 3/8	ODF	3.77	11.06	5.79	\$1,581.52
ORIT20*	1 5/8	ODF	9.09	11.06	7.1	\$1,980.30



SORIT12

EVAPORATOR, SOLENOID STOP

- Use MKC1 coil, not provided

Part No.	Connection		Capacity (Tons)	Dimensions (In)		Price
	Size (In.)	Type		L	H	
SORIT12*	1 1/8	ODF	2.52	8.50	7.22	\$1,334.42
SORIT15*	1 3/8	ODF	3.77	11.06	7.3	\$1,750.06
SORIT20*	1 5/8	ODF	9.09	11.06	8.6	\$2,129.30



ORITPI

EVAPORATOR

Internally piloted valve without the solenoid stop feature. Use for evaporator pressure regulation when reverse cycle hot gas defrost is not needed or handled in some other manner.

Same capacity basis as SORIT.



Part No.	Connection		Capacity (Tons)	Price
	Size (In.)	Type		
ORITPI37*	7/8	ODF		\$1,659.48
ORITPI29E*	1 1/8	ODF	1.88	\$1,888.68
ORITPI211*	1 3/8	ODF	1.88	\$1,794.48
ORITPI313*	1 5/8	ODF	3.75	\$2,078.90
ORITPI411*	1 3/8	ODF	4.78	\$1,794.48
ORITPI413*	1 5/8	ODF	4.78	\$2,078.90
ORITPI513*	1 5/8	ODF	9.13	\$2,594.64
ORITPI517*	2 1/8	ODF	9.13	\$2,753.84



SORITPI27S

EVAPORATOR, SOLENOID STOP

- Piloted internally-no high side pressure needed to operate valve
- Equipped with solenoid stop feature for hot gas defrost applications-uses MKC1 coil
- Pressure range: 0-100 psi

- Capacities based on 60°F saturated liquid, 0°F superheat at evaporator, 25°F superheated return gas, R404A, 0°F evaporator
- Overall height: 8.02"
- Use Y1228 models for smaller loads (usually less than 10,000 BTUH). External pilot is added



Part No.	Connection		Capacity (Tons)	Dimensions (In)		Price
	Size (In.)	Type		L	H	
SORITPI25S*	5/8	ODF	1.88	8.50	8.02	\$1,569.46
SORITPI27S*	7/8	ODF	1.88	8.50	8.02	\$1,569.46
SORITPI29S*	1 1/8	ODF	1.88	8.50	8.02	\$1,569.46
SORITPI29SE* ¹	1 1/8	ODF	1.88	8.50	8.02	\$1,900.36
SORITPI211S*	1 3/8	ODF	1.88	10.80	8.02	\$1,684.52
SORITPI37S*	7/8	ODF	3.75	8.50	8.02	\$1,569.46
SORITPI39S*	1 1/8	ODF	3.75	8.50	8.02	\$1,569.46
SORITPI311S*	1 3/8	ODF	3.75	10.80	8.02	\$1,684.52
SORITPI311SE*	1 3/8	ODF	3.75	10.80	8.02	\$2,026.38
SORITPI313S*	1 5/8	ODF	3.75	10.80	8.02	\$2,043.54
SORITPI49S*	1 1/8	ODF	4.78	8.50	8.02	\$1,569.46
SORITPI411S*	1 3/8	ODF	4.78	10.80	8.02	\$1,684.52
SORITPI413S*	1 5/8	ODF	4.78	10.80	8.02	\$2,043.54
SORITPI417S*	2 1/8	ODF	4.78	-	8.02	\$2,063.32
SORITPI511S*	1 3/8	ODF	9.13	10.80	8.02	\$2,379.32
SORITPI513S*	1 5/8	ODF	9.13	10.80	8.02	\$2,512.88
SORITPI513SE* ¹	1 5/8	ODF	9.13	10.80	8.02	\$2,763.62
SORITPI517S*	2 1/8	ODF	9.13	-	8.02	\$2,657.90
SORITPI517SE* ¹	2 1/8	ODF	9.13	-	8.02	\$2,912.68

¹Electric Open Feature



*WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

VALVES

PRESSURE REGULATOR



DIFFERENTIAL

These valves maintain a differential pressure between the defrost and the liquid headers (receiver) in supermarket systems to allow reverse flows during the defrost cycle.

- Differential valve and solenoid in one component

- Adjustment range: 0-50 psid
- Capacity at 40°F evaporator temperature, 100°F condensing, 25°F superheated return, R404A 2 psi ΔP
- OLDR operation: fully open when de-energized, differential mode when energized
- LDR, XTM, XTO operation: differential mode when de-energized, fully open when energized



Part No.	Connection (In.)	Capacity (Tons)	Overall Height (In.)	Use Coil Model	Price
LDR16*	1 5/8 ODF	31.1	6.44	OMKC1	\$2,321.22
OLDR16*	1 3/8 ODF	31.1	6.44	MKC1	\$1,965.06
OLDR16118*	1 1/8 ODF	31.1	6.44	MKC1	\$2,063.32
LDR21*	2 1/8 ODF	68.7	7.19	OMKC2	\$2,636.16
OLDR21*	2 1/8 ODF	48.6	7.24	MKC1	\$2,330.52
DDR20* ¹	1 5/8 ODF	18.7	8.56	MKC2	\$2,791.64

¹For regulating differential pressure between discharge gas line and receiver



EVAPORATOR STEP

Electronically operated step motor evaporator pressure regulating valve. When properly applied, the CDS valves and controllers can replace standard mechanical evaporator pressure regulator (EPR) valves, suction stop solenoid valves, and conventional thermostats.

- Maximum rated pressure: 680 psig
- Operating temperature: -50°F to 140°F
- Capacity at -10°F evaporator, 60°F liquid, 25°F superheated vapor, 2 psi ΔP, R404A
- T models have pressure tap



Part No.	Connection		Capacity (Tons)	Price
	Size (In.)	Type		
CDST212*	1/2	ODF	0.55	\$905.10
CDST258*	5/8	ODF	0.55	\$905.10
CDST278*	7/8	ODF	0.55	\$905.10
CDST412*	1/2	ODF	1.15	\$905.10
CDST458*	5/8	ODF	1.15	\$905.10
CDST478*	7/8	ODF	1.15	\$905.10
CDST778*	7/8	ODF	3.21	\$905.10
CDST7118*	1 1/8	ODF	3.21	\$905.10
CDST7138*	1 3/8	ODF	3.21	\$924.70
CDST958*	5/8	ODF	3.8	\$986.12
CDST9*	7/8	ODF	3.8	\$986.12
CDST9118*	1 1/8	ODF	3.8	\$986.12
CDST9138*	1 3/8	ODF	3.8	\$1,007.52
CDST17138*	1 3/8	ODF	8.6	\$1,283.32
CDST17158*	1 5/8	ODF	8.6	\$1,283.32
CDST17218*	2 1/8	ODF	8.6	\$1,297.30

*WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

REGULATOR REPAIR KIT



(S)ORIT VALVE

- Includes: adapter, pilot body T seal, piston assembly, bottom spring



Part No.	Applicable Valve	Price
KSORI12*	(S)ORIT12	\$503.00
KSORI/CDA15*	(S)ORIT15/CDA15	\$414.16
KSORI/CDA20*	(S)ORIT20/CDA20	\$516.04



(S)ORIT PILOT

- Kit includes: pilot assembly, (2) tetraseal gaskets ((S)ORIT12,15), (1) composition gasket ((S)ORIT20), copper flare gasket, 1/2 SAE bottom cap, (8) hex bolts



Part No.	Applicable Valve	Price
KY1010*	ORIT12, ORIT15, ORIT20	\$407.70
KY1005*	SORIT12, SORIT15, SORIT20	\$554.54



(S)ORIT TO CDS CONVERSION

Conventional evaporator pressure regulator to CDS electronically operated EPR conversion kit.

- Includes: Motor, adaptor, gasket and instructions



Part No.	Applicable Valve	Description	Price
901656*	(S)ORIT12	(S)ORIT12 to CDS	\$801.54
901654*	(S)ORIT15	(S)ORIT15 to CDS	\$826.88
901655*	(S)ORIT20	(S)ORIT20 to CDS	\$826.88



(S)ORIT PI

- RKS kits include: pilot assembly, piston sleeve, piston spring, (2) body O-ring, (2) guide pin O-ring, (2) guide pin, strainer
- Gasket kit and electric open assembly apply to all variations



Part No.	Applicable Valve	Price
RKSORITPI2*	(S)ORITPI2	\$829.24
RKSORITPI3*	(S)ORITPI3	\$829.24
RKSORITPI4*	(S)ORITPI4	\$887.30
RKSORITPI5*	(S)ORITPI5	\$924.00

Part No.	Description	Price
KGSORITPI	O-Ring Kit: (2) Body, (2) Guide Pin	\$39.40
KPIE	Electric Open Assembly	\$217.64

10G



KS10G



Part No.	Applicable Valve	Price
KS10G*	All 10G7	\$229.04

HOT GAS



KSHGBE8



Part No.	Use with	Description	Price
KSHGBE8*	SHGB(E)8	Pilot Assembly, SHGB(E)8	\$610.54
KSSHGB15*	SHGBE15	Repair Kit, SHGBE15	\$489.74

DIFFERENTIAL VALVE



KSDDR20



Part No.	Use with	Price
KSOLDR16*	OLDR16	\$591.50
KSOLDR20*	OLDR20	\$982.14
KSDDR20*	DDR20	\$598.16
KSXTM*	XTM	\$614.66
KSXTO*	XTO	\$990.26

GASKET BOOK



GB10

Array of 36 different gaskets replaces most common gaskets used today in expansion and solenoid valves and pumps. This fine gasket material Garlock replaces old gaskets on Sporlan, Penn, Alco, Jackes/Evans, Parker, Mueller,



ENERGY SAVING PRODUCTS

Hamilton Pax, Henry and Primore.

Part No.	Description	Price
GB10	Finn's Gasket Book	\$36.46

REFRIGERANT/AMMONIA SOLENOID



S6A

MODULAR PILOT SOLENOID

- Adds electric shut off (S) or electric wide opening (B) or dual pressure capability (D - using A2D modular pilot) to A4A(Z) or valves fitted with Moduadaptor®
- Supplied less coil



Part No.	Description	Price
S6A*	Modular Solenoid Pilot	\$312.20



S8F-1/2

SMALL PORT SOLENOID

- Heavy duty plated ductile iron solenoid suitable for ammonia and other common refrigerants
- S6N is ideal for pilot solenoid operation
- Supplied less coil

- Liquid capacity: R22 100°F condensing, 40°F evaporator, 2 psi ΔP
- Suction capacity: R22, 100°F liquid, 10°F superheat, 1 psi ΔP



Part No.	Port Size (In.)	Connection		Capacity (Tons)		Comments	Price
		Size (In.)	Type	Liquid	Suction		
S6N-3/16* ¹	3/16	—	FPT	2.6	.22	Direct Acting	\$282.80
S8F-1/2* ²	1/2	1/2	FPT	12	.99	Pilot Operated	\$387.80

¹Flanges not included; accepts FK13 size ²Flanges Included



S7A1

MEDIUM PORT SOLENOID

- Medium port, flange
- Semi steel body suitable for ammonia and other common refrigerants
- Supplied less coil
- Pilot operated, positive lift

- Order flange kits corresponding to mm port size
- Liquid capacity: R22, 100°F condensing, 40°F evaporator, 2 psi ΔP
- Suction capacity: R22, 100°F liquid, 10°F superheat, 1 psi ΔP



Part No.	Port Size (In.)	Capacity (Tons)		Height (In.)	Price
		Liquid	Suction		
S7A-3/4*	3/4	35	2.9	11.1	\$519.40
S7A1*	1	43	3.7	11.1	\$854.00

*WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

VALVES

REFRIGERANT/AMMONIA SOLENOID



S5A2

LARGE PORT SOLENOID

- Large port solenoid
- Pilot operated, flanged semi-steel body
- Order flange kits corresponding to mm port size
- Valve suitable for ammonia and other common refrigerants

- Supplied less coil
- Most commonly recommended for suction line use
- Liquid capacity: R22, 100°F condensing, 40°F evaporator, 2 psi ΔP
- Suction capacity: R22, 100°F liquid, 10°F superheat, 1 psi ΔP



Part No.	Port Size (In.)	Capacity (Tons)		Height (In.)	Price
		Liquid	Suction		
S5A1-1/4*	1 1/4	82	7	13.7	\$1,265.60
S5A1-5/8*	1 1/2	160	14	16.2	\$1,855.00
S5A2*	2	220	19	16.2	\$2,080.40



S4A1

LARGE PORT SOLENOID

- Flanged, pilot operated, spring closing, large port
- Order flange kits corresponding to mm port size
- Solenoid valve: semi-steel body suitable for use with ammonia and other common refrigerants

- Most commonly used for conventional warm high pressure liquid, above -50°F and hot gas defrost below 220°F
- Liquid capacity: R22, 100°F condensing, 40°F evaporator, 2 psi ΔP
- Reclaim capacity: Condenser heat of rejection, 110°F condensing, 3.5 psi ΔP
- Supplied less coil



Part No.	Port Size (In.)	Capacity (Tons)		Height (In.)	Price
		Liquid	Suction		
S4A-3/4* ¹	3/4	44		14.8	\$732.20
S4A1* ¹	1	61		14.8	\$1,050.00
S4A1-1/4* ¹	1/4	110		15.5	\$1,327.20
S4A1-5/8*	1 5/8	140		17.4	\$1,855.00
S4A2*	2	210		17.4	\$2,133.60
S4A2-1/2*	2 1/2	300		18.4	\$2,891.00

¹Liquid Capacity at 4.0 psi ΔP

REFRIGERANT/AMMONIA REGULATOR



A4A-158

INLET PRESSURE

- Pilot operated characterized modulating plug for precise control
- Many control variations are possible with the use of a few modules and kits
- Stainless steel diaphragm

- Chrome plated pilot seat
- Manual opening stem
- Opens on rise of inlet pressure
- Available as differential pressure regulator and remote pilot regulator (special order)
- Standard connections correspond to port size but are not included
- Capacities rated suction: R22, 40°F evaporator, 2 psi ΔP 100°F liquid, 10°F superheat
- Standard setpoint range: 0-150 psig
- Working pressure: 300 psig



Part No.	Port Size (In.)	Port Size (mm)	Capacity (Tons)	Price
A4A34*	3/4	20	4.6	\$756.00
A4A158*	1 5/8	40	21.0	\$1,878.80
A4A2*	2	50	32.0	\$2,207.80



A4AZ-1

ADAPTOMODE

A variation of the standard A4A inlet pressure with a module adapter enabling electric shut off (S) or wide opening (B), dual pressure (D), conversion to outlet regulator (O), pressure compensation(P) or temperature operation (T, OT).

- Capacities rated suction: R22, 40°F evaporator, 2 psi ΔP, 100°F liquid, 10°F superheat
- Standard connections correspond to port size but are not included
- Standard pressure range: 0-150 psig
- Maximum pressure: 300 psig
- Adapting modules sold separately



Part No.	Port Size (In.)	Port Size (mm)	Capacity (Tons)	Price
A4AZ-3/4*	3/4	20	4.6	\$957.60
A4AZ-1*	1	25	6.4	\$1,212.40
A4AZ-1-1/4*	1 1/4	32	11.0	\$1,605.80
A4AZ-1-5/8*	1 5/8	40	21.0	\$2,080.40
A4AZ-2*	2	50	32.0	\$2,409.40
A4AZ-2-1/2*	2 1/2	65	45.0	\$3,066.00
A4AZ-3*	3	75	64.0	\$4,261.60
A4AZ-4*	4	100	86.0	\$6,137.60

*WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov



A4A

INLET REGULATOR

These are the most commonly used variations to the A4A inlet regulator . Use the A4AS to regulate when electrically energized, closed when de-energized, the A4AB to regulate when de-energized and open wide when energized, the A4AD to regulate

at a lower pressure when energized and a higher pressure when de-energized, and the A4AK as a reseating relief regulator.

- Capacities similar to A4A
- Flanges not included
- Standard range: 0-150 psig



Part No.	Port Size (In.)	Port Size (mm)	Use with	Price
A4AB34* ¹	3/4	20	Electric Wide Opening	\$1,283.80
A4AS-1* ¹	1	25	Electric Shut Off	\$1,538.60
A4AD34* ¹	1	20	Dual Pressure Regulator	\$1,911.00
A4AD1* ¹	3/4	25	Dual Pressure Regulator	\$2,165.80
A4AK-3/4* ²	1	20	Reseating Relief Regulator	\$879.20

¹Specify coil voltage ²Set at 70 psig



A4AO-3/4

OUTLET PRESSURE

- Capacities similar to A4A
- Standard range: 20" Hg to 120 psig
- Flanges not included



Part No.	Port Size (In.)	Port Size (mm)	Price
A4AO-3/4*	3/4	20	\$1,328.60



A2B

INLET PRESSURE

Use A2B2, A2A as inlet pressure regulators for small systems. Use the A2B2 as a remote pilot regulator in conjunction with S6N pilot solenoid on an A4AR valve (to 2" port) to create the remote equivalent of an A4AS. Use A2BK-3/8 as a reseating relief regulator.

- Standard range: 0-150 psig
- Use FK13 flanges (not included)
- Capacities R22, +40°F evaporator, 2 psi ΔP, 86°F liquid



Part No.	Capacity (Tons)	Use with	Price
A2B2*	0.32	Inlet Pressure Pilot, 3/4 to 2" A4AR	\$520.80
A2A*	0.96	Inlet Pressure Pilot, 3/4 to 2" A4AR	\$777.00
A2B*	0.32	Inlet Pressure, 2 1/2 to 4" A4AR	\$533.40



CK2A-1-5/8

GAS POWERED SUCTION STOP

These are piston type, pressure powered, normally open, heavy duty spring return, cast iron valves normally used on low temperature applications to positively close suction lines and both liquid legs and gas returns on flooded evaporators. Nominal pressure drop

on suction lines. Power close can overcome low temperature sticking caused by viscous oil.

- Suction capacity: -10°F evaporator, -10°F liquid, R22, .25 psi ΔP, 7.2 Tons
- Gravity flood capacity: accepted industry practice concerning surge drum height and evaporator geometry: Liquid and Return, 1.3 Tons
- Use with S6N pilot solenoid
- Width includes flange
- Flanges not included



Part No.	Port Size		Capacity (Tons)		Overall Height (In.)	Price
	Inches	mm	Suction	Liquid		
CK2A-1-5/8*	1 5/8	40	7.2	1.3	14.17	\$1,538.60



RSF-1/2

STRAINER

These industrial type, semi-steel bodied refrigerant strainers with stainless steel screen are designed especially for the protection of R/S control valves from foreign materials present in refrigeration systems. The strainers may be close coupled to R/S valves having the same flange gasket size

- Flanges not included, adapter ring not included
- Use with female adapter ring on outlet and FK flang



Part No.	Port Size (In.)	Use with Valve Port Size (In.)	Width (In.)	Price
RSF-1/2*	1/2	5, 13	5.56	\$151.20
RSF*	3/4	20, 25	7.63	\$389.20
RSF1-1/4*	1 1/4	32	11.28	\$427.00
RSF1-5/8*	2	40, 50	14.62	\$845.60
RSF2-1/2*	2 1/2	65	17.76	\$1,225.00
RSF3*	3	75	18.5	\$1,435.00



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VALVES

REFRIGERANT/AMMONIA REGULATOR



CK3-3_4

CHECK VALVE

- Piston type spring loaded in line check valve
- Typically used on multibranched hot gas lines and liquid lines
- Temperature range: -25 to 220°F
- Maximum working pressure: 300 psig

- Connection: FPT inlet x FPT outlet



Part No.	Flow (Cv)	Connection Size (In.)	Price
CK3-1/2*	9.5	1/2	\$372.40
CK3-3/4*	10.5	3/4	\$383.60
CK3-1*	11.5	1	\$452.20



CK4A8

CHECK VALVE

- A flanged in-line light spring loaded check valve typically used for liquid lines, high speed compressor discharge
- Applications: liquid flood back, maintain receiver pressure

- Liquid capacity: 110°F liquid, 20°F evaporator, R22, 3/4 psi ΔP
- Hot gas capacity: 90°F condensing, 20°F evaporator, R22, 3/4 psi ΔP
- Suction capacity: 110°F liquid, -15°F evaporator, R22, 3/4 psi P
- Flanges not included; use kit corresponding to port size
- Length with FPT or SW flange



Part No.	Port Size		Flow (Cv)	Capacity (Tons)			Price
	Inches	mm		Suction	Hot Gas Discharge	Liquid	
CK4A2*	1/2	13	3.4	.73	1.7	8.4	\$210.00
CK4A3*	3/4	20	7.1	1.5	3.5	18.0	\$222.60
CK4A4*	1	25	13.0	2.8	6.4	32.0	\$296.80
CK4A6*	1 1/4	32	19.0	4.1	9.4	47.0	\$466.20
CK4A8*	2	50	46.0	9.8	23.0	114.0	\$750.40
CK4A9*	2 1/2	65	70.0	15.0	34.0	170.0	\$946.40
CK4A0*	3	75	112.0	24.0	55.0	280.0	\$1,257.20



CK1-3/4

CHECK VALVE

- A flanged piston type, gravity closing check valve typically used for slow speed compressor discharge lines, liquid lines, suction lines to -25°F and side port applications on screw compressors

- Liquid capacity: 110°F liquid, 20°F evaporator, R22, .5 psi ΔP
- Hot gas capacity: 90°F condensing, 20°F evaporator, R22, .5 psi ΔP
- Suction capacity: -10°F liquid, -10°F evaporator, R22, .5 psi ΔP
- Horizontal only
- Width with FPT or SW flange



Part No.	Port Size		Flow (Cv)	Suction	Capacity (Tons)			Dimensions (In.)		Price
	(In.)	mm			Hot Gas Discharge	Liquid		L	H	
CK1-3/4*	3/4	20	9.5	—	4.6	19		8.5	7.5	\$621.60
CK1-1*	1	25	10.0	—	4.8	20		8.5	7.5	\$658.00
CK1-1-1/4*	1 1/4	32	19.0	5.2	9.2	39		10.1	8.6	\$998.20
CK1-3*	3	75	120.0	33.0	58.0	240		15.3	15.1	\$2,434.60



MAR25

ADAPTER RING

- Use female adapter ring in flange unions and at the outlet of RSF
- Strainer installed separately with FK flange kit
- Use male adapter ring to close couple CK4A or CK1 check valves to the outlet of R/S control valves

- Each are furnished with (2) matching flange gaskets



	Port Size		
Part No.	mm	Gender	Price
FAR13*	5, 13	F	\$43.40
FAR25*	20, 25	F	\$53.20
FAR32*	32	F	\$79.80
FAR50*	40, 50	F	\$81.20
FAR65*	65	F	\$138.60
FAR75*	75	F	\$109.20
FAR100*	100	F	\$180.60
MAR13*	5, 13	M	\$39.20
MAR25*	20, 25	M	\$43.40
MAR32*	32	M	\$64.40
MAR50*	40, 50	M	\$79.80
MAR65*	65	M	\$81.20
MAR75*	75	M	\$85.40
MAR100*	100	M	\$156.80

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H2100

RELIEF VALVE

- High capacity safety relief valve
- Should be used to protect each refrigeration system pressure vessel that can be isolated by valves
- With mounting flang

- Used with M Series manifolds

**FLO-CON REGULATOR**

A81-1-1/8

INLET PRESSURE

- Used typically as an evaporator pressure regulator, discharge pressure regulator, liquid drain regulator, or defrost relief regulator
- Opens on rise of inlet pressure
- Range: 10" to 400 psig

- Liquid drain capacity: 95°F condensing, 0°F evaporator, 3 psi ΔP, R404A
- Discharge capacity: 95°F condensing, 0°F evaporator, 180°F discharge, 3 psi ΔP, R404A
- Suction capacity: 0°F evaporator, 3 psi ΔP, R404A, 100°F liquid, 10°F superheat



	Connection (In.)					
Part No.	Inlet	Outlet	Pressure Setting (psig)	Capacity (Lb/Min) Air	Overall Height (In.)	Price
H2100*	3/4	1	100	41	7.59	\$1,034.60
H2250*	3/4	1	250	96	7.59	\$1,034.60
H2-300*	3/4	1	300	114	7.59	\$1,034.60
H3250*	1	1 1/4	50	158	9.03	\$1,604.40
H5300*	1 1/4	2	300	469	11.65	\$2,818.20



M2-3/4

DUAL VALVE MANIFOLD

Used with dual safety relief valves to protect vessel when servicing valve or offering double valve protection.



Part No.	Connection Inlet (In.)	Use with	Ship Wgt (Lbs.)	Price
M2-3/4*	3/4	Valve H2	12.4	\$1,324.40



OR50

ADAPTOMODE® MODULE

- Used to convert A4A valve to other variations



Part No.	Description	Price
MD25*	Moduadapter for 3/4" 1" Port, A4A	\$357.00
MD50*	Moduadapter for 1 5/8" 2" Port, A4A	\$431.20
MP*	Blankoff or Pilot Crossover (S,B Variations)	\$84.00
OR200*	Outlet Regulator Conversion, 3/4" to 2" Port, A4A	\$520.80
OR50*	Outlet Regulator Conversion, 2 1/2" to 8" Port, A4A	\$515.20



A810E-1-3/8

OUTLET PRESSURE

- Opens on fall of outlet pressure
- Typically used as a crankcase pressure regulator, hot gas bypass regulator or receiver pressure regulator
- Range: 10" to 400 psig

- Condenser bypass capacity: 95°F condensing, 0°F evaporator, 180°F discharge, 10 psi ΔP R404A
- Hot gas bypass capacity: 110°F condensing, 180°F discharge R404A



Capacity (Tons)		Connection (In.)	Hot Gas Bypass	Condenser Bypass	Price
Part No.	Port Size (In.)				
A810E-1-1/8*	5/8	1 1/8	—	—	\$1,222.08
A810E-1-3/8*	1 3/8	1 3/8	77.8	66.0	\$1,384.72
A810E-1-5/8*	1 3/8	1 5/8	77.8	66.0	\$1,454.64
A820E-1-5/8*	1 5/8	1 5/8	120.1	98.5	\$2,042.88
A820E-2-1/8*	2 1/8	2 1/8	203.4	173.2	\$2,407.68
A820E-2-5/8*	2 5/8	2 5/8	—	—	\$2,564.24



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FLO-CON REGULATOR



a81BL-1-1/8

DIFFERENTIAL PRESSURE

- Open when the pressure difference across the regulator is greater than the setpoint
- Typically used as a discharge pressure regulator or liquid feed regulator

- With electric wide opening feature
- Discharge capacity: 95°F condensing, 0°F evaporator, 180°F discharge, 3psi ΔP, R404A
- Range: 10" to 400 psig
- Supplied less coil



Part No.	Connection Size (In.)	Discharge Capacity (Tons)	Price
A81BL-1-1/8*	1 1/8	6.2	\$1,776.88
A81BL-1-3/8*	1 3/8	11.0	\$1,896.96
A82BL-1-5/8*	1 5/8	16.4	\$2,609.84
A82BL-2-1/8*	2 1/8	28.9	\$2,959.44



A9E

OUTLET PRESSURE

- Range: 10" to 120 psig
- Opens on fall of outlet pressure
- Typically used as hot gas bypass regulators
- Externally equalized

- Condenser bypass capacity: 95°F condensing, 0°F evaporator, 180°F discharge, 10 psi ΔP, R404A
- Hot gas bypass capacity: 110°F condensing, 180°F discharge
- A9SE electric shut off feature, supplied less coil



Part No.	Port Size (In.)	Hot Gas Size (In.)	Capacity (Tons)		Price
			Hot Gas Bypass	Condenser Bypass	
A9E-5/8*	5/8	5/8	5.7	5.5	\$709.84
A9E-7/8*	7/8	7/8	16.4	15.5	\$975.84
A9E-1-1/8*	1 1/8	1 1/8	26.5	21.9	\$1,246.40
A9SE-5/8*	5/8	5/8	5.7	5.5	\$1,098.96
A9SE-7/8*	7/8	7/8	16.4	15.5	\$1,366.48
A9SE-1-1/8*	1 1/8	1 1/8	26.5	21.9	\$1,634.00



SPORTII57

EVAPORATOR PRESSURE

- Designed specifically for evaporator pressure regulation
- Opens on rise of inlet pressure
- Suction capacity: 0°F evaporator, 1psi ΔP, R404A, 100°F liquid, 10°F superheat

- Range: 10" HG to 120 psi
- Coil voltage: 208/240/1/60 Vac
- "II" suffix features corrosion-resistant aluminum bronze bodies
- "LC" suffix: Less Coil
- "S" prefix features electric shut off



Part No.	Port Size (In.)	ODS (In.)	Suction (Tons)	Price
SPORTII37*	3/8	7/8	.34	\$1,380.16
SPORTII37/LC*	3/8	7/8	.34	\$1,238.80
SPORTII39*	3/8	1 1/8	.34	\$1,380.16
SPORTII39/LC*	3/8	1 1/8	.34	\$1,238.80
SPORTII311*	3/8	1 3/8	.34	\$1,456.16
SPORTII311/LC*	3/8	1 3/8	.34	\$1,314.80
SPORTII57*	5/8	7/8	.87	\$1,380.16
SPORTII57/LC*	5/8	7/8	.87	\$1,238.80
SPORTII59*	5/8	1 1/8	.87	\$1,380.16
SPORTII59/LC*	5/8	1 1/8	.87	\$1,238.80
SPORTII511*	5/8	1 3/8	.87	\$1,456.16
SPORTII511/LC*	5/8	1 3/8	.87	\$1,314.80
SPORTII77*	7/8	7/8	1.23	\$1,380.16
SPORTII77/LC*	7/8	7/8	1.23	\$1,238.80
SPORTII79*	7/8	1 1/8	1.23	\$1,380.16
SPORTII79/LC*	7/8	1 1/8	1.23	\$1,238.80
SPORTII711*	7/8	1 3/8	1.23	\$1,456.16
SPORTII711/LC*	7/8	1 3/8	1.23	\$1,314.80
SPORTII713*	7/8	1 5/8	1.23	\$1,602.08
SPORTII713/LC*	7/8	1 5/8	1.23	\$1,460.72
SPORTII97*	1 1/8	7/8	1.57	\$1,380.16
SPORTII97/LC*	1 1/8	7/8	1.57	\$1,238.80
SPORTII99*	1 1/8	1 1/8	1.57	\$1,380.16
SPORTII99/LC*	1 1/8	1 1/8	1.57	\$1,238.80
SPORTII911*	1 1/8	1 3/8	1.57	\$1,456.16
SPORTII911/LC*	1 1/8	1 3/8	1.57	\$1,314.80
SPORTII119*	1 3/8	1 1/8	2.78	\$1,238.80
SPORTII119/LC*	1 3/8	1 1/8	2.78	\$1,238.80
SPORTII1111*	1 3/8	1 3/8	2.78	\$1,456.16
SPORTII1111/LC*	1 3/8	1 3/8	2.78	\$1,314.80
SPORTII1113*	1 3/8	1 5/8	2.78	\$1,602.08
SPORTII1113/LC*	1 3/8	1 5/8	2.78	\$1,460.72
SPORT37*	3/8	7/8	.34	\$1,074.64
SPORT57*	5/8	7/8	.87	\$1,074.64
SPORT59*	5/8	1 1/8	.87	\$1,074.64
SPORT511*	5/8	1 3/8	.87	\$1,001.68
SPORT77*	7/8	7/8	1.23	\$1,074.64
SPORT79*	7/8	1 1/8	1.23	\$1,074.64
SPORT99*	1 1/8	1 1/8	1.57	\$1,074.64
SPORT911*	1 1/8	1 3/8	1.57	\$1,143.04
SPORT1111*	1 3/8	1 3/8	2.78	\$1,143.04
SPORT1113*	1 3/8	1 5/8	2.78	\$1,296.52
SPORT1313*	1 5/8	1 5/8	4.14	\$2,053.52
SPORT1317*	1 5/8	2 1/8	4.14	\$2,251.12

Continued...

EVAPORATOR PRESSURE (CONT'D.)



Part No.	Port Size (In.)	ODS (In.)	Suction (Tons)	Price
SPORT1713*	2 1/8	1 5/8	7.28	\$2,115.84
SPORT1717*	2 1/8	2 1/8	7.28	\$2,392.48
PORTII37*	3/8	7/8	.34	\$1,141.52
PORTII39*	3/8	1 1/8	.34	\$1,141.52
PORTII57*	5/8	7/8	.87	\$1,141.52
PORTII59*	5/8	1 1/8	.87	\$1,141.52
PORTII1113*	1 3/8	1 5/8	2.78	\$1,466.80
PORT1717*	2 1/8	2 1/8	7.28	\$2,039.84
PORT2121*	2 5/8	2 5/8	9.32	\$2,193.36



NORMALLY OPEN



			Connection			
Part No.	Flow (Cv)	MOPD (psi)	Size (In.)	Type	Overall Length (In.)	Price
10E2302-R1021E*	4.0	0 - 150	5/8	ODS	6.50	\$581.54
14E2302-R1021E*	5.0	0 - 150	7/8	ODS	8.75	\$581.54
18E2302-R1021E*	5.0	0 - 150	1 1/8	ODS	10.31	\$581.54
34E2402-R1021E*	22.5	5 - 125	2 1/8	ODS	11.06	\$1,560.84

SECONDARY COOLANT SOLENOID

Parker Hannifin, a pioneer in supermarket refrigeration control, introduces a new line of solenoid valves to control secondary coolants. These fluids include propylene glycol, ethylene glycol, Pecosol 50, Dynalene HC-40, and others. Parker's valve is the only valve designed to meet the requirements of both medium and low temperature applications encountered in supermarket applications. In a secondary coolant, or secondary loop system, a chilled solution, such as propylene glycol, is circulated throughout the system rather than liquid refrigerant. Secondary coolant systems are advantageous because they can eliminate liquid refrigerant and suction gas lines running through a store. This reduces installation costs and labor, and eliminates costly refrigerant leaks.

Also, PVC tubing can be used, rather than the heavier, more expensive copper tubing normally used in traditional systems. Again, this reduces installation costs and labor, and eliminates costly refrigerant leaks. Another benefit is more efficient defrost cycles with less potential product damage.

Coil not included; order separately.



COIL



Part No.	Voltage	Wire Length (In.)	Price
CF4C01-R1021*	24	18	\$198.16
CF5C05R1021*	120	18	\$212.14
CF5C10-R1021*	208	18	\$218.48
CF5C15-R1021*	240	18	\$218.48
CF4E05-R1021*	120	36	\$120.92
CF4E10-R1021*	208	36	\$120.92



NORMALLY CLOSED



			Connection			
Part No.	Flow (Cv)	MOPD (psi)	Size (In.)	Type	Overall Length (In.)	Price
10E23C2-R1021E*	4.0	0 - 150	5/8	ODS	6.50	\$393.70
14E23C2-R1021E*	5.0	0 - 150	7/8	ODS	8.75	\$382.24
18E23C2-R1021E*	5.0	0 - 150	1 1/8	ODS	10.31	\$393.70
22EH5C2-R1021E*	12.2	0 - 50	1 3/8	ODS	9.38	\$856.02
26EH5C2-R1021E*	12.2	0 - 50	1 5/8	ODS	9.38	\$881.70
34E24C2-R1021E*	22.5	5 - 125	2 1/8	ODS	11.06	\$1,224.24

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SECONDARY COOLANT SOLENOID



SECONDARY FLUID VALVE AND CONTROLLER

Optimize your system performance year-round by responding to changing system and ambient conditions automatically. Save Energy in your pump and chiller, and relieve stress on system components (e.g.

compressors, pumps) with flat line control. With the Sporlan SFV and controller, just set your case temperature and walk away. The Sporlan Secondary Fluid Control is an innovative solution for managing heat exchangers on medium temperature secondary fluid applications. The controller is designed for use with Sporlan SFV series electric valves and eliminates the need for case mounted balancing valves and pulse width (on/off) solenoid controls. It provides unique algorithms to optimize heat exchanger efficiency during start up, after defrosts and steady state conditions. It displays actual liquid entering, liquid leaving and discharge air temperatures. It also allows manual control of the valve position and a commissioning feature to help reduce start up time.

Controller Features:

- AUTO PID with self optimizing control logic
- Multi-level fault analysis for alarming
- Built in commissioning tool
- One dial for setting discharge air temperature
- Single Valve control (Sporlan Type SFV)
- 4-digit LED display
- Controller networking via MODBUS RS-485
- One digital input
- Three temperature inputs (Sporlan Type 3k)

Valve Specifications

- Bipolar Hybrid Stepper Motor
- 2500 Steps, 200 Steps/Second
- Voltage: 12VDC (-5% +10%)
- Current: 185 mA / winding
- MRP: 300 psig
- Removable M12 Cable
- 20 Ft Standard, 10 Ft Available
- Approved for Propylene Glycol and Water
- Flow Coefficient: 12 C



Part No.	Description	Price
SFV9-5/8*	Valve, 5/8" ODF	\$1,190.74
SFV9-7/8*	Valve, 7/8" ODF	\$1,190.74
SFV9-1-1/8*	Valve, 1 1/8" ODF	\$1,190.74
SFV9-1-3/8*	Valve, 1 3/8" ODF	\$1,216.90

ACCESSORIES



FK32-1-3_8OD

FLANGE KIT, SWEAT

- Fits valve with appropriate port size
- Includes pair of flanges onl
- Do not use with ammonia, copper stub



Part No.	Port Size	Connection		Price
	mm	Size (In.)	Type	
FK13-5/8OD*	5, 13	5/8	ODS	\$89.60
FK25-7/8OD*	20, 25	7/8	ODS	\$123.20



KF32-1-1/4FT

FLANGE KIT, FPT

- Fits valve with appropriate port size
- Includes pair of flanges onl



Part No.	Port Size	Connection		Price
	mm	Size (In.)	Type	
FK13-1/4FPT*	5, 13	1/4	FPT	\$89.60
FK13-3/8FPT*	5, 13	3/8	FPT	\$89.60
FK13-1/2FPT*	5, 13	1/2	FPT	\$89.60
FK13-3/4FPT*	5, 13	3/4	FPT	\$89.60
FK25-3/4FPT*	20, 25	3/4	FPT	\$123.20
FK25-1FPT*	20, 25	1	FPT	\$123.20
FK25-1 1/4FPT*	20, 25	1 1/4	FPT	\$123.20
FK32-1-1/4FT*	32	1 1/4	FPT	\$123.20
FK32-1-1/2FT*	32	1 1/2	FPT	\$123.20
FK50-1-1/2FT*	40, 50	1 1/2	FPT	\$184.80
FK50-2FPT*	40, 50	2	FPT	\$184.80



FK25-1-1_4SW

FLANGE KIT, SOCKET WELD

- Fits valve with appropriate port size
- Includes pair of flanges onl



Part No.	Port Size	Connection		Price
	mm	Size (In.)	Type	
FK13-3/8SW*	5, 13	3/8	Socket Weld	\$89.60
FK13-1/2SW*	5, 13	1/2	Socket Weld	\$89.60
FK13-3/4SW*	5, 13	3/4	Socket Weld	\$89.60
FK251SW*	20, 25	1	Socket Weld	\$123.20
FK25-1-1/4SW*	20, 25	1 1/4	Socket Weld	\$123.20
FK32-1-1/4SW*	32	1 1/4	Socket Weld	\$123.20
FK32-1-1/2SW*	32	1 1/2	Socket Weld	\$123.20
FK50-1-1/2SW*	40, 50	1 1/2	Socket Weld	\$184.80
FK65-2-1/2SW*	65	2 1/2	Socket Weld	\$322.00
FK75-3SW*	75	3	Socket Weld	\$361.20

*WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov



SOLENOID COIL



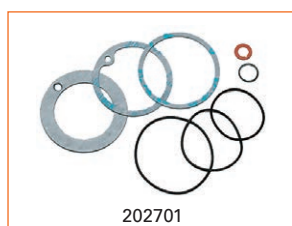
Part No.	Voltage	Use with	Price
202944*	24	Flocon, A8, A9	\$139.84
202940*	120	Flocon, A8, A9	\$136.80
202942*	208	Flocon, A8, A9	\$136.80
202941*	240	Flocon, A8, A9	\$136.80
206004*	120	SPORT, SPORTII	\$141.36
206005*	208/240	SPORT, SPORTII	\$141.36
206007*	24	SPORT, SPORTII	\$147.44



VALVE REPAIR KIT



Part No.	Description	Use with	Price
202041*	Regulator Repair Kit	A4A 3/4	\$715.50
202044*	Regulator Repair Kit	A4A 1	\$781.50
202047*	Regulator Repair Kit	A4A 1 1/4	\$885.00
202064*	Solenoid Repair Kit	S4A 3/4	\$727.50
202065*	Solenoid Repair Kit	S4A 1	\$945.00
202066*	Solenoid Repair Kit	S4A 1 1/4	\$945.00
202067*	Solenoid Repair Kit	S4A 1 5/8	\$1,125.00
202072*	Solenoid Repair Kit	S8F 1/2	\$340.50
202073*	Solenoid Repair Kit	S5A 1 1/4	\$817.50
202074*	Solenoid Repair Kit	S5A 1 5/8	\$945.00



GASKET KIT



Part No.	Use with	Price
202701*	A8A, A81, SPORT 3 to 11	\$111.00
202420*	A9	\$31.50
202286*	S7	\$22.50
201632*	S6N	\$13.50
202113*	A4, S4	\$69.00
202290*	S9	\$82.50



CARTRIDGE KIT



Part No.	Use with	Price
202712*	SPORT, A8, 3/8" Port	\$580.50
202711*	SPORT, A8, 5/8" Port	\$580.50
202710*	SPORT, A8, 7/8" Port	\$604.50
202709*	SPORT, A8, 1 1/8" Port	\$717.00
202708*	SPORT, A8, 1 3/8" Port	\$777.00



FLANGE GASKET

Replacement gaskets for valve flanges
flange kit (FK) sizes correspond to valve
port size



Part No.	Flange Size (In.)	Use with	Price
202078*	1/2	FK-13	\$31.50
202079*	3/4, 1	FK-25	\$57.00
202080*	1 1/4	FK-32	\$64.50
202081*	1 5/8, 2	FK-50	\$69.00
202082*	2 1/2	FK-65	\$100.50
202083*	3	FK-75	\$132.00
202084*	4	FK-100	\$180.00



A8/SPORT TO CDS VALVE CONVERSION KIT

- Converts a mechanical A8 or SPORT valve to a stepper motor driven modulating valve
- Eliminates the need for brazing, because the existing A8 or SPORT valve body stays in the system piping
- Economical system upgrade opportunity, with a typical 30 minute valve installation
- Reduces the external seal surface area
- Improves performance and system efficiency
- Tight seating for defrost and pumpdown applications
- No pressure drop required for operation



Part No.	Description	Price
183903*	A81 (5/8") to SDR-5	\$692.10
183904*	A81 (7/8 - 1 3/8") to CDS-17	\$692.10
183905*	A82 (1 5/8 - 2 1/8") to CDS-17	\$804.74

*WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

VALVES

REFRIGERANT BALL VALVE



12BV

LESS ACCESS PORT

- Full refrigeration service temperature range of -40°F to +300°F
- Design working pressure: 700 psig
- Robust brass body and cap design



Connection							
Part No.	Size (In.)	Type	Port Size (In.)	Overall Length (In.)	Flow (Cv)	Ship Wgt (Lbs.)	Price
14BV*	1/4	ODS	0.50	5.50	2.2	0.92	\$52.26
38BV*	3/8	ODS	0.50	5.50	4.4	0.93	\$52.58
12BV*	1/2	ODS	0.50	6.33	7.2	0.96	\$53.32
58BV*	5/8	ODS	0.50	6.33	14.3	0.96	\$54.54
34BV*	3/4	ODS	0.75	7.32	20.6	1.69	\$75.80
78BV*	7/8	ODS	0.75	7.32	29.7	1.69	\$77.52
118BV*	1 1/8	ODS	1	9.1	60.0	2.48	\$118.62
138BV*	1 3/8	ODS	1 1/4	9.66	83.5	3.61	\$178.38
158BV*	1 5/8	ODS	1 1/2	11.0	206.0	5.43	\$206.24
218BV*	2 1/8	ODS	2	11.75	279.0	10.9	\$339.10
258BV*	2 5/8	ODS	2	11.75	292.6	11.35	\$513.84
318BV*	3 1/8	ODS	2 1/2	14.68	316.0	20.51	\$542.78



78BVT

WITH ACCESS PORT

- Full refrigeration service temperature range of -40°F to +300°F
- Design working pressure: 700 psig
- Robust brass body and cap design
- 1/4" M flare access fitting



Connection							
Part No.	Size (In.)	Type	Port Size (In.)	Overall Length (In.)	Flow (Cv)	Ship Wgt (Lbs.)	Price
14BVT*	1/4	ODS	0.50	5.5	2.2	0.92	\$64.98
38BVT*	3/8	ODS	0.50	5.5	4.4	0.93	\$65.38
12BVT*	1/2	ODS	0.50	6.33	7.2	0.95	\$66.74
58BVT*	5/8	ODS	0.50	6.33	14.3	0.96	\$67.42
34BVT*	3/4	ODS	0.75	7.32	20.6	0.96	\$89.74
78BVT*	7/8	ODS	0.75	7.32	29.7	1.69	\$92.70
118BVT*	1 1/8	ODS	1	9.1	60.0	2.48	\$132.80
138BVT*	1 3/8	ODS	1 1/4	9.66	83.5	3.61	\$194.52
158BVT*	1 5/8	ODS	1 1/2	11.0	206.0	5.43	\$223.10
218BVT*	2 1/8	ODS	2	11.75	279.0	10.9	\$357.74
258BVT*	2 5/8	ODS	2	11.75	292.6	11.36	\$534.08



218-318BVRK

RETROFIT KIT

Retrofit Cap w/ Teflon Gasket. Designed to replace existing caps on installed BV and BVT refrigerant ball valves

Part No.	Fits Valve	Ship Wgt (Lbs.)	Price
14-58BVRK	1/4" to 5/8"	0.5	\$11.78
34-118BVRK	3/4" to 1 1/8"	0.5	\$15.28
138-158BVRK	1 3/8" to 1 5/8"	0.5	\$19.92
218-318BVRK	2 1/8" to 3 1/8"	0.5	\$34.36



EBVTPR

BALL VALVE WITH INTEGRAL PRESSURE RELIEF

- Allows for positive shut-off in one direction and flow in the other direction whenever pressure differential is present. (The integrated pressure relief feature is one direction only.)
- Protects system from pressure spikes when servicing equipment.
- Welded body joint. Factory tested to ensure positive, leak-free performance. Forged brass body construction with extended copper fittings and optional access fitting
- Full size ports for unrestricted flow on most sizes, 3/8" through 1-1/8".
- Dual Teflon seals surround the polished, brass ball to prevent leakage. Stem seal and stem washer provide the primary stem seal. Bottom load stem for safety.
- Stainless steel stop plate ensures fully open to fully closed with a 1/4 turn.
- All EBV(T)-PR ball valves may be installed in any position.
- Full refrigeration service temperature range: -40°F to +325°F
- Design working pressure: 1015 psig
- For refrigeration or air conditioning systems
- Connection ODF
- Suitable for use with the following refrigerants: R22, R123, R125, R134a, R236fa, R402A, R402B, R404A, R407A, R407C, R407F, R410A, R422D, R448A, R449A, R450A, R452A, R507, R513A, R744



Part No.	Con- nection (In.)	Port Size (In.)	Overall Length (In.)	Overall Height (In.)	Flow (Cv)	Ship Wgt (Lbs.)	Price
EBVTPR1030	3/8	0.50	6.50	3.08	4.3	0.89	\$169.44
EBVTPR1040	1/2	0.50	6.50	3.08	7.0	0.87	\$171.26
EBVTPR1050	5/8	0.50	6.50	3.08	13.9	0.85	\$172.68
EBVTPR1060	3/4	0.75	7.25	3.59	21.0	1.50	\$209.82
EBVTPR1070	7/8	0.75	7.25	3.59	30.3	1.52	\$213.46
EBVTPR1090	7/8	1	8.50	4.11	61.3	2.27	\$264.76

*WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov



586WA6ST

LESS ACCESS PORT

- Full refrigeration service temperature range of -40°F to +325°F
- Forged brass body and seal cap
- No synthetic O ring seals. Double seal protection provides a superior stem design

- Design working pressure: 700 psig
- Full flow ports in all sizes through 2 1/8"; 595WA25ST and 596WA31ST are also full port



Part No.	Connection		Overall Length (In.)	Flow (Cv)	Ship Wgt (Lbs.)	Price
	Size (In.)	Type				
586WA6ST	3/8	ODS	6.50	3.6	0.8	\$62.08
586WA8ST	1/2	ODS	6.50	7.4	0.6	\$62.08
586WA10ST	5/8	ODS	16.50	14.6	0.6	\$62.08
587WA12ST	3/4	ODS	6.56	22.3	0.1	\$87.86
587WA14ST	7/8	ODS	6.56	30.0	0.9	\$87.86
591WA11ST	1 1/8	ODS	7.69	62.0	2.35	\$141.26
592WA13ST	1 3/8	ODS	8.88	110.0	4.15	\$224.82
593WA15ST	1 5/8	ODS	9.13	135.0	4.2	\$247.64
594WA21ST	2 1/8	ODS	9.88	270.0	7.95	\$458.16
594WA25ST	2 5/8	ODS	12.88	250.0	1.45	\$673.24
595WA25ST	2 5/8	ODS	12.92	340.0	16.2	\$1,252.06
594WA31ST	3 1/8	ODS	13.75	240.0	11	\$684.56
596WA31ST	3 1/8	ODS	16.31	480.0	26.25	\$1,953.58
596WA35ST	3 5/8	ODS	16.03	455.0	25	\$2,121.24
596WA41ST	4 1/8	ODS	16.03	430.0	27	\$2,218.90



586WAS6ST

WITH ACCESS PORT

- Full refrigeration service temperature range of -40°F to +325°F
- Forged brass body and seal cap
- No synthetic O ring seals. Double seal protection provides a superior stem design

- Design working pressure: 700 psig
- 1/4" M flare access fitti



Part No.	Connection		Overall Length (In.)	Flow (Cv)	Ship Wgt (Lbs.)	Price
	Size (In.)	Type				
586WAS6ST	3/8	ODS	6.50	3.6	0.7	\$76.20
586WAS8ST	1/2	ODS	6.50	7.4	0.65	\$76.20
586WAS10ST	5/8	ODS	6.50	14.6	0.85	\$76.20
587WAS14ST	7/8	ODS	6.56	30.0	1.15	\$105.58
591WAS11ST	1 1/8	ODS	7.69	62.0	2.3	\$154.60
592WAS13ST	1 3/8	ODS	8.88	110.0	4.2	\$240.44
593WAS15ST	1 5/8	ODS	9.13	135.0	4.25	\$267.26
594WAS21ST	2 1/8	ODS	9.88	270.0	8.05	\$473.20
595WAS25ST	2 5/8	ODS	12.92	340.0	15.8	\$1,287.18
596WAS31ST	3 1/8	ODS	16.31	480.0	26	\$1,993.72



586WBS4SW

VRF BALL VALVES

Superior's VRF Ball V alves are designed to provide a complete ball valve package for VRF ductless air conditioning systems.

- Features flare and ODS connections for fast, leak-tight service

- Exclusive uni-body design eliminates leak points
- Full port design
- Design Working Pressure: Now UL Approved for 800 PSIG
- Factory tested under pressure to ensure leak tightness
- Uses a forged brass body and seal cap
- PTFE ball seals and gaskets ensure tight leak-free valve
- Dual PTFE seals in stem prevent leaks
- Seal cap design allows valve operation without removal of seal cap
- Temperature Rating of -40°F to +325°F
- Compatible with these refrigerants R-11, R-22, R-123, R-125, R-134A, R-236FA, R-402B, R-404A, R-407C, R-410A, R-500, R502, R-507



Part No.	Connection		Overall Length (In.)	Ship Wgt (Lbs.)	Price
	Size (In.)	Type			
586WBS4SW	1/4	ODS	6.50	0.82	\$107.98
586WBS6SW	3/8	ODS	6.50	0.82	\$109.78
586WBS8SW	1/2	ODS	6.50	1	\$111.72
586WBS10SW	5/8	ODS	6.50	1	\$113.62
586WBS4FL	1/4	MFL x FFL	6.19	1	\$107.46
586WBS6FL	3/8	MFL x FFL	6.30	0.91	\$109.42
586WBS10FL	5/8	MFL x FFL	6.64	1.01	\$113.32



009G

WITH ACCESS PORT

- Seal cap with retaining strap
- Burst proof spindle design prevents liquid from being trapped internally
- Rotation stops and position indicator
- Access port with schrader valve saves money if service of the system is necessary

- Valve seat of teflon to secure maximum tightness and a long lifetime
- Full flow with minimum pressure dro
- Slim-line design ensures easy operational handling
- Maximum working pressure: 650 psig



Part No.	Connection		Flow (Cv)	Ship Wgt (Lbs.)	Price
	Size (In.)	Type			
009G8050	1/4	ODS	2.27	0.52	☎
009G8051	3/8	ODS	6.57	0.52	☎
009G8053	5/8	ODS	16.31	0.54	☎
009G8054	3/4	ODS	23.61	0.86	☎
009G8065	7/8	ODS	32.56	0.94	☎
009G8066	1 1/8	ODS	60.05	1.96	☎
009G8067	1 3/8	ODS	93.51	3.09	☎
009G8068	1 5/8	ODS	139.96	4.91	☎
009G8059	2 1/8	ODS	260.05	9.32	☎
009G8069	2 5/8	ODS	358.36	12.46	☎

Please contact your local United Refrigeration Branch or our Customer Service Center for pricing.

VALVES

REFRIGERANT BALL VALVE



18PCFXF

PETCOCK

For use with water
No flammable liquids and no gase

Part No.	Connection		Price
	Size (In.)	Type	
18PCFXF	1/8	FPT x FPT	\$29.56
18PCFXM	1/8	FPT x MPT	\$24.80
14PCFXF	1/4	FPT x FPT	\$31.80
14PCFXM	1/4	FPT x MPT	\$33.76

SEAL CAP KIT

Includes Seal Cap, Seal Cap Gasket,
Anti-Friction Ring, Cap Nut



A17842

Part No.	Fits Valve	Ship Wgt (Lbs.)	Price
A17842	1/4", 3/8", 1/2", 5/8"	0.5	☎
A17843	3/4", 7/8"	1	☎
A17844	1 1/8"	1	☎
A17845	1 5/8" to 3 1/8"	2	☎
A17846	2 5/8" to 3 1/8"	2	☎

DIAPHRAGM PACKLESS VALVE

Forged brass body with full size openings for maximum flow and minima pressure drop

Operable in wide temperature ranges

Two stainless steel diaphragms and one phosphor bronze diaphragm for positive isolation.

Thermally stable hand wheel for operation in wide temperature ranges

Valves are UL/cUL recognized and CE certifie

Compatible with all CFC, HCFC and HFC refrigerants and oils

Operating temperature ranges from -40°F to 300°F

Max. work pressure of 700 psig



A14833

CONNECTION SAE X SAE

- M flare connectio

Part No.	Connection Size (In.)	Overall Height (In.)	Overall Length (In.)	Price
A14833	1/4	2.70	2.70	☎
A14835	3/8	2.70	2.78	☎
A14836	1/2	3.46	3.48	☎
A14837	5/8	3.46	3.63	☎



A14838

CONNECTION ODS X ODS

Part No.	Connection Size (In.)	Overall Height (In.)	Price
A14838	1/4	2.70	☎
A14840	3/8	2.70	☎
A14841	1/2	3.49	☎
A14842	5/8	3.49	☎



A14848

CONNECTION ODS X ODS, EXTENDED

- With copper tube extensions

Part No.	Connection Size (In.)	Overall Height (In.)	Price
A14848	1/4	2.70	☎
A14850	3/8	2.70	☎
A14851	1/2	3.49	☎
A14852	5/8	3.49	☎





A15541

CONNECTION ODS X ODS, ANGLE



Part No.	Connection Size (In.)	Overall Height (In.)	Price
A15541	1/2	3.70	



5163

CONNECTION ODS X ODS

- Recommended for applications and service pressures up to 500 psi
- Temperature rating: -20°F to 275°F
- Cored brass forging
- Golden bantam®
- Foot mounting plate



Part No.	Connection Size (In.)	Overall Length (In.)	Price
5163	3/8	3.50	\$177.74



6265N

CONNECTION ODS X ODS

Valves are nondirectional up to 350 psi. For higher pressures up to 500 psi, direction of flow must be with the inlet under the valve seat.

- Forged brass body
- Maximum temperature rating: 275°F
- Foot mounting plate



Part No.	Connection Size (In.)	Overall Length (In.)	Price
6261N	1/4	2.63	\$282.44
6263N	3/8	2.63	\$294.04
6264N	1/2	3.13	\$312.40
6265N	5/8	3.50	\$320.10
6266N	3/4	4.38	\$376.40
6267N	7/8	4.81	\$400.84
6268N	1 1/8	6.00	\$787.32



6473N

CONNECTION ODS X ODS, ANGLE

Valves are nondirectional up to 350 psi. For higher pressures up to 500 psi, direction of flow must be with the inlet under the valve seat.

- Forged brass body
- Maximum temperature rating: 275°F



Part No.	Connection Size (In.)	Overall Height (In.)	Price
6471N	1/4	3.44	\$248.92
6473N	3/8	3.44	\$257.50
6474N	1/2	3.50	\$308.70
6475N	5/8	3.81	\$311.92
6477N	7/8	5.38	\$444.02
6478N	1 1/8	6.50	\$657.78



6295N

CONNECTION ODS X ODS

- Hand expansion valve
- Maximum temperature rating: 275°F
- Maximum working pressure: 500 psi



Part No.	Connection Size (In.)	Overall Height (In.)	Overall Length (In.)	Price
6293N	3/8	3.38	2.63	\$338.32
6294N	1/2	3.38	2.63	\$345.40
6295N	5/8	3.56	3.38	\$373.16



6232N

CONNECTION ODS X SAE

- Charge and purge valve
- Straight, hand wheel
- With protective outlet cover, backseating
- M flare outle



Part No.	Connection Size (In.)	Price
6231N	1/4	\$282.88
6232N	3/8	\$306.12
6233N	1/2	\$432.92

Please contact your local United Refrigeration Branch or our Customer Service Center for pricing.

VALVES

PACKED GLOBE VALVE



2030A

CONNECTION ODS X ODS

The C Series with special nonmetallic bonnet gaskets and Teflon seat inserts permit the use of these valves in service temperatures as high as 400°F. Bolted bonnets permit easy disassembly for soldering.

A metal-to-metal back seat, when valve is fully open, permits repacking under pressure.

The LPD (low pressure drop) angle valves are forged brass construction, seats are Teflon, and parts are interchangeable with comparable sizes of LPD globe line valves.

- Any Superior/Sherwood packed globe valve marked 500 psi has been approved for R410A applications and 700 psi working pressure
- Maximum temperature: 400°F
- Minimum temperature: -40°F
- Cast bronze construction
- Seal cap globe valve
- Maximum working pressure: 500 psi
- Maximum temperature rating: 325°F



Part No.	Connection Size (In.)	Overall Height (In.)	Overall Length (In.)	Price
2030A	7/8	6.12	4.25	\$465.62
2030BA	1 1/8	6.54	4.88	\$468.22
2031	1 3/8	8.75	5.38	\$755.12
2032	1 5/8	9.94	6.50	\$775.56
2033	2 1/8	10.63	8.50	\$1,568.64
2034	2 5/8	11.94	11.00	\$2,283.82
2035	3 1/8	13.25	12.00	\$2,704.42

PACKED ANGLE VALVE

Maximum abnormal pressure: 700 psig

Continuous operating temperature: -40° to 300°F

Compatible with all CFC, HCFC and HFC refrigerants and oils

UL/cUL Recognized, Conforms to Pressure Equipment Directive 97/23/EC

Forged brass body

Corrosion resistant steel stem suitable for refrigerants and other industrial fluid



A16472

CONNECTION MPT X SAE, NON-BACKSEATING

Part No.	Connection Size (In.)		Overall Height (In.)	Price
	Bottom Inlet	Side Outlet		
A16472	1/4	1/4	3.04	☎
A13613	3/8	1/4	3.14	☎
A11030	1/4	3/8	3.10	☎
A13503	3/8	3/8	3.15	☎
A11042	3/8	1/2	3.77	☎
A19023	1/2	3/8	N/A	☎



A13220

CONNECTION MPT X SAE, BACKSEATING

Part No.	Connection Size (In.)		Overall Height (In.)	Price
	Bottom Inlet	Side Outlet		
A13220	1/2	1/2	4.11	☎
A13183	1/2	5/8	4.64	☎



A13978

CONNECTION MPT X ODS, BACKSEATING

Part No.	Connection Size (In.)		Overall Height (In.)	Price
	Bottom Inlet	Side Outlet		
A13978	1/2	5/8	4.70	☎



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A17506

CONNECTION ODS X SAE

These charging and purging valves are designed to be installed on the branch or run of a solder-type tee.



Part No.	Connection Size (In.)		Overall Height (In.)	Price
	Bottom Inlet	Side Outlet		
A17502	1/4	1/4	2.75	
A17913	3/8	1/4	2.72	
A17503	3/8	3/8	2.72	
A19022	1/2	1/4	2.67	
A19021	1/2	3/8	2.67	



A17429

INTERNAL SWIVEL, MFL X FFL



Part No.	Connection Size (In.)		Overall Height (In.)	Price
	Bottom Inlet	Side Outlet		
A17429	1/4	1/4	3.49	
A17474	3/8	3/8	3.55	



9272

CONNECTION ODM/ODS X SAE

Packed angle line valve

- Charge and purge valve
- Non-backseating with protective outlet cover
- M flare side connectio



Part No.	Connection Size (In.)		Overall Height (In.)	Price
	Bottom Inlet	Side Outlet		
9270	1/4	1/4	3.66	\$57.10
9271	3/8	1/4	3.66	\$58.96
9272	3/8	3/8	3.66	\$88.06
9273	1/2	1/4	3.66	\$92.90
9274	1/2	3/8	3.66	\$86.90

PACKED ANGLE RECEIVER VALVE



7767B

CONNECTION MPT X SAE

- Forged brass body
- Maximum temperature rating: 300°F
- Maximum working pressure: 500 psi
- Non-backseating
- M flare outle



Part No.	Connection Size (In.)		Overall Height (In.)	Price
	Bottom Inlet	Side Outlet		
7761B	1/4	1/4	3.50	\$57.34
7763B	1/4	3/8	3.66	\$58.18
7764B	3/8	1/4	3.66	\$58.64
7767B	3/8	1/2	3.81	\$81.90
7768B	1/2	5/8	4.56	\$166.12



7771B

CONNECTION MPT X FPT

- Forged brass body
- Maximum temperature rating: 300°F
- Maximum working pressure: 500 psi



Part No.	Connection Size (In.)		Overall Height (In.)	Price
	Bottom Inlet	Side Outlet		
7771B	1/4	1/4	3.66	\$74.24



7834

CONNECTION ODS X ODS

- Forged brass body
- Maximum temperature rating: 300°F
- Maximum working pressure: 500 psi
- Angle, seal cap
- Connection: ODS x ODS
- Backseating



- 1/4 M flare access port above backsea

Part No.	Connection Size (In.)	Overall Height (In.)	Price
7831	1/2	4.47	\$224.90
7832	5/8	4.58	\$232.00
7833	7/8	5.44	\$232.00
7834	1 1/8	7.10	\$236.74
7835	1 3/8	7.42	\$343.28
7836	1 5/8	9.14	\$437.98

Please contact your local United Refrigeration Branch or our Customer Service Center for pricing.

VALVES

PACKED SEAL CAP VALVE



9261

CONNECTION ODS X ODS

- Forged brass body
- Maximum temperature rating: -20°F to 300°F
- Maximum working pressure: 500 psi
- Foot mounting plate



Part No.	Connection Size (In.)	Overall Height (In.)	Overall Length (In.)	Price
9261	1/4	4.35	2.69	\$245.34
9263	3/8	4.35	3.00	\$248.66
9264	1/2	4.35	3.19	\$263.28
9265	5/8	4.35	3.38	\$268.88

SWIVEL ANGLE VALVE



9240

CONNECTION SAE X SAE

- Swivel valve
- Connection: M flare x F fla



Part No.	Connection Size (In.)	Overall Height (In.)	Price
9240	1/4	4.13	\$76.58
9241	3/8	4.13	\$79.84

PRESSURE RELIEF VALVE

These valves have been designed, constructed and rated in accordance with ANSI/ASHRAE 15 Standard Safety Code for Mechanical Refrigeration and the Canadian Standards Association. Each valve is stamped U.V./N.B. to indicate national board certifications as to capacities. These A Series pressure relief valves are all Teflon seated, permitting their use in applications of either high or low temperatures.

- Brass body, Teflon sea
- Minimum temperature: -40°F
- Stainless steel spring
- Maximum temperature: 325°F

IMPORTANT

A pressure relief valve is installed in a refrigeration system primarily to protect the receiver. Since it is not intended to be an overload or high pressure cutout, we recommend that the pressure relief valve be set at the working pressure marked on the receiver.



3020450

CONNECTION MPT X SAE



Part No.	Connection		Pressure Setting (psig)	Length (In.)	Port Size (In.)	Price
	Inlet	Outlet				
3012250	1/4	3/8	250	2.98	3/16	\$124.68
3012300	1/4	3/8	300	2.98	3/16	\$124.68
3012350	1/4	3/8	350	2.98	3/16	\$124.68
3012400	1/4	3/8	400	2.98	3/16	\$124.68
3012425	1/4	3/8	425	2.98	3/16	\$124.68
3012450	1/4	3/8	450	2.98	3/16	\$124.68
3014200	3/8	3/8	200	2.98	3/16	\$109.10
3014235	3/8	3/8	235	2.98	3/16	\$124.68
3014300	3/8	3/8	300	2.98	3/16	\$124.68
3014350	3/8	3/8	350	2.98	3/16	\$124.68
3014400	3/8	3/8	400	2.98	3/16	\$124.68
3014425	3/8	3/8	425	2.98	3/16	\$124.68
3014450	3/8	3/8	450	2.98	3/16	\$124.68
3015235	3/8	1/2	235	3.11	3/16	\$146.80
3015300	3/8	1/2	300	3.11	3/16	\$146.80
3015350	3/8	1/2	350	3.11	3/16	\$146.80
3015400	3/8	1/2	400	3.11	3/16	\$146.80
3015425	3/8	1/2	425	3.11	3/16	\$146.80
3016425	3/8	1/2	425	3.28	9/32	\$136.66
3020235	1/2	5/8	235	3.50	9/32	\$150.80
3020300	1/2	5/8	300	3.50	9/32	\$150.80
3020325	1/2	5/8	325	3.50	9/32	\$150.80
3020350	1/2	5/8	350	3.50	9/32	\$150.80
3020400	1/2	5/8	400	3.50	9/32	\$150.80
3020425	1/2	5/8	425	3.50	9/32	\$150.80
3020450	1/2	5/8	450	3.50	9/32	\$150.80
3020500	1/2	5/8	500	3.50	9/32	\$150.80

Continued...

CONNECTION MPT X SAE (CONT.D)



	Connection					
Part No.	Inlet	Outlet	Pressure Setting (psig)	Length (In.)	Port Size (In.)	Price
R410A						
3014C650	3/8	3/8	650	3.35	3/16	\$189.18
3020C600	1/2	5/8	600	4.45	9/32	\$222.18
3015C650	3/8	1/2	650	3.47	3/16	\$206.86
3016C650	3/8	1/2	650	4.13	9/32	\$206.86
3020C650	1/2	5/8	650	4.45	9/32	\$228.58



CONNECTION MPT X SAE, 90°



	Connection					
Part No.	Inlet	Outlet	Pressure Setting (psig)	Overall Length (In.)	Port Size (In.)	Price
3212235 ¹	1/4	3/8	235	2.92	3/16	\$123.16
3212300 ¹	1/4	3/8	300	2.92	3/16	\$140.74
3212350 ¹	1/4	3/8	350	2.92	3/16	\$140.74
3214235 ¹	3/8	3/8	235	2.92	3/16	\$140.74
3214300 ¹	3/8	3/8	300	2.92	3/16	\$140.74
3214350 ¹	3/8	3/8	350	2.92	3/16	\$140.74
3214400 ¹	3/8	3/8	400	2.92	3/16	\$140.74
3214425 ¹	3/8	3/8	425	2.92	3/16	\$140.74
3214450 ¹	3/8	3/8	450	2.92	3/16	\$140.74
3220300 ¹	1/2	5/8	300	2.84	9/32	\$160.86
3220350 ¹	1/2	5/8	350	2.84	9/32	\$160.86
3220400 ¹	1/2	5/8	400	2.84	9/32	\$160.86
3220425 ¹	1/2	5/8	425	2.84	9/32	\$160.86
3220450 ¹	1/2	5/8	450	2.84	9/32	\$160.86

¹To center of flare fitting

CONNECTION MPT

- To atmosphere



Part No.	Connection Size (In.)	Pressure Setting (psig)	Overall Length (In.)	Price
3000300	1/8	300	2.17	\$90.48
3001300	1/4	300	2.30	\$90.48
3001350	1/4	350	2.30	\$90.48
3001425	1/4	425	2.30	\$90.48
3002300	3/8	300	2.30	\$90.48
3002400	3/8	400	2.30	\$90.48
3002425	3/8	425	2.30	\$90.48
3002450	3/8	450	2.30	\$90.48
3002500	3/8	500	2.30	\$90.48
R410A				
3002C650	3/8	650	2.55	\$139.82



CONNECTION MPT X FPT



	Connection				
Part No.	Inlet	Outlet	Pressure Setting (psig)	Overall Length (In.)	Price
3045300	3/4	3/4	300	4	\$261.70
3045350	3/4	3/4	350	4	\$261.70
3045400	3/4	3/4	400	4	\$261.70
3045425	3/4	3/4	425	4	\$261.70
3045450	3/4	3/4	450	4	\$261.70

Please contact your local United Refrigeration Branch or our Customer Service Center for pricing.

VALVES

PRESSURE RELIEF VALVE

Valves are stamped with A.S.M.E. UV symbol and NB to indicate national board certification as to capacities. Code provides for a relief valve setting not to exceed the design working pressure of the vessel on which the relief valve is installed. Whenever conditions permit, it is advisable to have the relief valve pressure setting (which must not exceed the design working pressure for the vessel) at least 25% higher than the normal maximum operating pressure for the refrigerant used.

- Brass construction
- Temperature rating: -40°F to 225°F



5231235

CONNECTION MPT X SAE

- Straight through valve



Part No.	Connection		Pressure Setting (psig)	Overall Length (In.)	Price
	Inlet	Outlet			
5230235	1/4	3/8	235	3.16	\$248.96
5230150	1/4	3/8	150	3.16	\$248.96
5230375	1/4	3/8	375	3.16	\$248.96
5231235	3/8	3/8	235	3.16	\$248.96



52441235

CONNECTION MPT X FPT

- Straight through valve



Part No.	Connection		Pressure Setting (psig)	Overall Length (In.)	Price
	Inlet	Outlet			
52441235	1	1	235	4.16	\$298.70

DUAL SHUT OFF



927

CONNECTION FPT

For dual relief valves and drier bypass installations or applications requiring simultaneous opening of one line and closing of another.

- Maximum working pressure: 450 psi

- Temperature rating: -20°F to 300°F



Part No.	Connection (In.)	Length (In.)	Ship Wgt (Lbs.)	Price
925	1/2	6.26	0.6	\$284.10
927	3/4	6.48	0.75	\$284.10



3155W

CONNECTION FPT

For dual relief valves and drier bypass installations or applications requiring simultaneous opening of one line and closing of another.

- Maximum working pressure: 700 psi

- Temperature rating: -40°F to 325°F



Part No.	Connection (In.)	Length (In.)	Ship Wgt (Lbs.)	Price
3155WE	3/4	6.31	3.25	\$465.02
3155WF	1	7.26	6.9	\$763.82

RUPTURE DISC ASSEMBLY



5526450

CONNECTION MPT X FPT

- Use in conjunction with relief valves
- Usage in accordance with ASME code, section VIII, div. 1
- Pressure setting at 72°F



Part No.	Connection Size (In.)	Pressure Setting (psig)	Overall Length (In.)	Construction	Price
5525350	3/8	350	2.86	Brass	\$474.18
5525400	3/8	400	2.86	Brass	\$474.18
5525450	3/8	450	2.86	Brass	\$474.18
5526235	1/2	235	3.25	Brass	\$478.80
5526300	1/2	300	3.25	Brass	\$478.80
5627300	3/4	300	3.19	Stainless Steel	\$756.70
5627350	3/4	350	3.19	Stainless Steel	\$756.70
5627400	3/4	400	3.19	Stainless Steel	\$756.70
5627450	3/4	450	3.19	Stainless Steel	\$756.70
5628250	1	250	3.67	Stainless Steel	\$1,337.50
5628300	1	300	3.67	Stainless Steel	\$1,337.50
5629300	1 1/4	300	3.75	Stainless Steel	\$1,550.08



AG17971

CONNECTION MPT X FPT

Rupture Disc assemblies are designed to burst open and relieve an over pressure or vacuum condition at a predetermined differential pressure, and specific temperature. A rupture disc indicates which pressure relief valve has discharged. A rupture disc remains

open after bursting, but when combined with a pressure gauge or high pressure switch, a visual or electronic indication of the burst is revealed.



Part No.	Connection Size (In.)	Pressure Setting (psig)	Overall Length (In.)	Construction	Price
AG17971	1/2	350	3.25	Brass	☎
AH17971	1/2	400	3.25	Brass	☎
AJ17971	1/2	450	3.25	Brass	☎

CHECK VALVE

Y CHECK VALVE

This Y type of valve has been the most popular design in the refrigeration industry for years. The internal parts can easily be removed and reassembled after soldering. This basic Ytype design reduces pressure drop to a very low level.

All Superior check valves have Teflon seats. These valves may be installed in any position except upside down.

- Brass body, Teflon seat
- Minimum temperature: -40°F
- Maximum temperature: 400°F
- Any Superior/Sherwood "Y" check valve marked 500 psi has been approved for R410A applications and 700 psi working pressure



802B6

CONNECTION SAE X SAE

- M flare connection



Part No.	Connection Size (In.)	Overall Length (In.)	Price
802B4	1/4	3.00	\$97.70
802B6	3/8	3.00	\$97.70
802B8	1/2	3.00	\$94.84



802B8S

CONNECTION ODS X ODS



Part No.	Connection Size (In.)	Overall Length (In.)	Price
802B4S	1/4	3.00	\$68.40
802B6S	3/8	3.00	\$68.40
802B8S	1/2	2.56	\$68.40
803B10S	5/8	3.31	\$74.26
804A14S	7/8	3.75	\$97.70



803B10ST

CONNECTION ODS X ODS, EXTENDED

- Extended tube



Part No.	Connection Size (In.)	Overall Length (In.)	Price
802B6ST	3/8	6.13	\$97.84
802B8ST	1/2	6.35	\$117.46
803B10ST	5/8	6.81	\$146.84



B34235

CONNECTION ODS X ODS

- Maximum abnormal pressure (MAP): 700 psig
- Continuous operating temperature (COT): -40° to 300°F
- Compatible with all CFC, HCFC and HFC refrigerants and oils

- UL/cUL Recognized, Conforms to Pressure Equipment Directive 97/23/EC
- 100% tested
- Design features easy removal and reassembly of internal components
- Forged brass body exceeds the most stringent quality standards in the industry
- Horizontal or vertical installation (not to be installed with bonnet facing down)
- Y type design provides minimal pressure drop and increased flow capacity



Part No.	Connection Size (In.)	Overall Length (In.)	Price
B34235	7/8	3.68	☎
B34236	1 1/8	3.68	☎
B34237	1 3/8	4.75	☎
B34238	1 5/8	4.75	☎
B34239	2 1/8	6.37	☎
B34240	2 5/8	8.88	☎

☎ Please contact your local United Refrigeration Branch or our Customer Service Center for pricing.

VALVES

CHECK VALVE



CONNECTION ODS X ODS, "Y"

- Can be installed in any position, except bonnet down
- Overall length: 2.94"
- Maximum working pressure: 500 psi
- Maximum temperature rating: 300°F



Part No.	Connection Size (In.)	Overall Length (In.)	Price
116004	1/2	2.94"	\$181.26
116005	5/8	2.94"	\$194.98



CONNECTION SAE X SAE, INLINE

- Brass construction
- Synthetic rubber seat
- Can be installed in any position
- M flare connectio
- Maximum working pressure: 500 psi
- Maximum temperature rating: 200°F



Part No.	Connection Size (In.)	Overall Length (In.)	Price
11914	1/4	2.26	\$132.00
11938	3/8	2.51	\$133.66



CONNECTION ODS X ODS, EXTENDED INLINE

- Brass construction
- Synthetic rubber seat
- Can be installed in any position
- Maximum working pressure: 500 psi
- Maximum temperature rating: 200°F



Part No.	Connection Size (In.)	Overall Length (In.)	Price
12038	3/8	5.25	\$132.66
12058	5/8	6.28	\$191.56
12078	7/8	6.44	\$262.08



MAGNETIC CHECK VALVE

Designed to prevent undesirable reverse flow. Can be installed in any position without affecting performance.

- Near zero leak rate
- Can be installed with hard or soft solder

- Capacity: R22, suction 40°F evaporator, 1 psi ΔP
- Built in stainless steel strainer
- Spun copper style
- Connection: ODS x ODS



Part No.	Connection Size (In.)	Diameter (In.)	Overall Length (In.)	Capacity (Tons)	Price
A17934	1/4	7/8	4.00	0.4	☎
A17935	3/8	7/8	4.00	0.6	☎
A17936	1/2	1.12	5.12	1.2	☎
A17937	5/8	1.12	5.12	1.6	☎
A17939	7/8	1.62	7.00	3.8	☎
A17940	1 1/8	2.12	8.37	6.0	☎
A17941	1 3/8	2.62	9.37	9.5	☎
A17942	1 5/8	3.12	10.50	17.0	☎
A17943	2 1/8	3.62	12.00	30.0	☎
A17944	2 5/8	4.12	13.00	50.0	☎



CONNECTION ODS X ODS

- Hermetically sealed spun copper body.
- 30 mesh screen to protect seat surface from debris.
- Magnetic Actuation.
- Lapped" stainless steel disc and "lapped" brass seat assembly.

- Arrow indicates direction of flow.
- Minimal Pressure Drop.
- Capacity: R22, 40°F, 1 psi ΔP
- U.L. and C-U.L. Recognized, File No. SA2989(N)



Part No.	Connection Size (In.)	Diameter (In.)	Overall Length (In.)	Suction Capacity (Tons)	Price
900MA-6S	3/8	0.875	4.00	0.6	\$36.24
900MA-8S	1/2	1.125	5.00	1.2	\$36.24

☎ Please contact your local United Refrigeration Branch or our Customer Service Center for pricing.



NRV-NRVH

TYPES NRV AND NRVH VERSION 2

NRV and NRVH piston type check valves are designed for installation in commercial refrigerating systems and in residential or industrial air conditioning plants. They are used to control the unidirectional flow of refrigerant so as to prevent backflow.

- Ensure correct flow direction
- Available in both straightway and angleway versions
- Hermetic tight design for solder versions
- Built-in damping piston that makes the valves suitable for installation in lines where pulsation can occur, e.g. in the discharge line from the compressor
- NRVH type check valve is with stronger spring and is recommended to use for compressors in parallel (i.e. power packs) where higher level of pulsation and vibration are expected
- Max operating pressure: 710 psig



Part No.	Connection Size (In.)	Overall Length (In.)	Capacity (Tons)	Price
020B1010	1/4	3.62	0.2	\$47.20
020B1057	3/8	3.62	0.2	\$106.68
020B1011	3/8	4.29	0.8	\$50.62
020B1070	1/2	4.29	0.1	\$70.14
020B1012	1/2	5.16	1.42	\$55.70
020B1052	5/8	5.16	1.42	\$75.68
020B1039	1/2	5.16	2.1	\$124.94
020B1018	5/8	5.47	2.25	\$64.12
020B1047	5/8	5.47	2.25	\$67.46
020B1019	3/4	6.5	3.68	\$114.64
020B1054	7/8	6.5	3.68	\$116.90

AMMONIA/REFRIGERANT SHUTOFF

PIPE THREAD SHUTOFF VALVE

Suitable for NH₃, refrigerants and other industrial fluids noncorrosive to steel and cast iron.

- Valve bodies: ductile iron
- Valve bonnets: flanged design, ductile iron, will accept seal caps on handwheel valves
- Stems: stainless steel
- Backseating: can be repacked under pressure
- Temperature rating: -20°F to +325°F
- Maximum cold working pressure: 400 psi
- Connection: FPT x FPT



330G

GLOBE/HANDWHEEL/FPT



Part No.	Connection (In.)	Length (In.)	Valve Open Height (In.)	Ship Wgt (Lbs.)	Price
310G	3/8	3.63	5.44	2	\$319.88
320G	1/2	3.63	5.44	2	\$319.88
330G	3/4	3.63	5.44	2	\$330.76
340G	1	4.13	5.75	3	\$332.88



380G

ANGLE/HANDWHEEL/FPT



Part No.	Connection (In.)	Valve Open Height (In.)	Ship Wgt (Lbs.)	Price
370G	1/2	6.0	2	\$309.96
380G	3/4	6.0	2	\$330.76
390G	1	6.13	3	\$342.86



C340G

GLOBE/SEALCAP/FPT



Part No.	Connection (In.)	Length (In.)	Valve Open Height (In.)	Ship Wgt (Lbs.)	Price
C320G	1/2	3.63	5.44	2	\$309.96
C330G	3/4	3.63	5.44	2	\$330.76
C340G	1	4.13	5.75	3	\$343.50

VALVES

AMMONIA/REFRIGERANT SHUTOFF



C380G

ANGLE/SEALCAP/FPT



Part No.	Connection (In.)	Valve Open Height (In.)	Ship Wgt (Lbs.)	Price
C380G	3/4	6.0	2	\$367.52



330F-E

HAND EXPANSION

- Valve body: ductile iron
- Temperature rating: -20°F to +325°F
- Maximum cold working pressure: 400 psi
- Connection: FPT x FPT



Part No.	Connection (In.)	Width (In.)	Valve Open Height (In.)	Ship Wgt (Lbs.)	Price
320F-E	1/2	3.63	6.13	2.5	\$390.62
330F-E	3/4	3.63	6.13	2.5	\$390.62



7771

PURGE/OIL/GAUGE

- Valve body: forged steel
- Seal cap, angle
- Non-backseating valves
- Maximum working pressure: 1000 psi



- Temperature rating: -20°F to +300°F

Part No.	Connection (In.)	Ship Wgt (Lbs.)	Price
7761	1/4	0.5	\$161.72
7771	1/4	0.33	\$142.50
7773	3/8	1.2	\$166.54



8021A

3 WAY DUAL SHUT OFF

- Maximum cold working pressure: 450 psi
- Temperature rating: -20°F to +300°F
- Connection: FPT x FPT x FPT



Part No.	Connection (In.)	Overall Length (In.)	Ship Wgt (Lbs.)	Price
8021A	1/2	8.57	3.31	\$328.32
8022A	3/4	8.57	2	\$332.42
8024	1	11.78	7.87	\$460.92
8025	1 1/4	11.78	8.24	\$884.80

AMMONIA/REFRIGERANT RELIEF



5601250

RELIEF ANGLE

- Temperature rating: -20°F to +275°F
- Cast iron body
- Stainless steel seat inserts, seat discs, main guides
- Connection: FPT x FPT



Part No.	Connection Size (In.)		Pressure Setting (psi)	Overall Height (In.)	Overall Length (In.)	Price
	Bottom Inlet	Side Outlet				
5601250	1/2	1	250	4.97	3.00	\$345.22
5602150	3/4	1	150	4.97	3.00	\$352.54
5602250	3/4	1	250	4.97	3.00	\$352.54
5603350	1	1 1/4	350	5.53	N/A	\$547.06

AMMONIA/REFRIGERANT FLANGE

UNION VALVE FLANGE

When ordering flanges for bare valves, the required bolts and nuts will be included with the valve.

- Forged steel
- Shipped as a pair-male/female with gaskets
- Maximum working pressure: sizes 1/2" thru 2" -1,500 psi sizes 2 1/2" thru 4" -500 psi
- Temperature rating: -20°F to +325°F



S20D218K

SQUARE/4 BOLT/SOLDER



Part No.	Connection (In.)	Valve Size (In.)	Ship Wgt (Lbs.)	Price
S20D138K	1 3/8	1 1/4	5.75	\$378.78
S20D2158K	1 5/8	2	9.75	\$580.02
S20D218K	2 1/8	2	8.75	\$485.32
S20D258K	2 5/8	2 1/2	15	\$698.36
S20D318K	3 1/8	3	18.5	\$864.08



S2SW2X112K

SQUARE/4 BOLT/SOCKET WELD



Part No.	Connection (In.)	Valve Size (In.)	Ship Wgt (Lbs.)	Price
S2SW114K	1 1/4	1 1/4	5.25	\$182.78
S2SW2X112K	1 1/2	2	8.75	\$285.70
S2SW2K	2	2	7.5	\$242.22
S2SW212K	2 1/2	2 1/2	13.25	\$256.38
S2SW3K	3	3	15.75	\$378.24
S2SW4K	4	4	22	\$458.52



S2PT114K

SQUARE/4 BOLT/FPT



Part No.	Connection (In.)	Valve Size (In.)	Ship Wgt (Lbs.)	Price
S2PT114X1K	1	1 1/4	5.25	\$213.06
S2PT114K	1 1/4	1 1/4	5.25	\$213.06
S2PT2K	2	2	7.75	\$295.92



02PT1

OVAL/2 BOLT/FPT



Part No.	Connection (In.)	Valve Size (In.)	Ship Wgt (Lbs.)	Price
02PT1X12	1/2	1	3.75	\$165.72
02PT34	3/4	1	4	\$177.56
02PT1	1	1	4.07	\$146.78



02SW34K

OVAL/2 BOLT/SOCKET WELD



Part No.	Connection (In.)	Valve Size (In.)	Ship Wgt (Lbs.)	Price
02SW12K	1/2	1	3.75	\$165.72
02SW34K	3/4	1	4	\$177.56
02SW1K	1	1	3.75	\$146.78

SEALED



C083S

DRIER, ODS

- Standard drier, sweat connections



Part No.	Connection (In.)	Dessicant Volume (Cu. In.)	Overall Length (In.)	Price
C032S*	1/4	3.0	3.81	\$26.98
C033S*	3/8	3.0	3.88	\$27.86
C052S*	1/4	5.0	4.19	\$31.46
C0525S*	5/16	5.0	4.38	\$38.36
C053S*	3/8	5.0	4.31	\$31.46
C082S*	1/4	8.0	5.12	\$40.94
C0825S*	5/16	8.0	5.31	\$46.58
C083S*	3/8	8.0	5.25	\$38.70
C084S*	1/2	8.0	5.44	\$41.38
C162S*	1/4	16.0	5.75	\$54.98
C1625S*	5/16	16.0	5.94	\$56.00
C163S*	3/8	16.0	5.88	\$49.64
C164S*	1/2	16.0	6.00	\$54.18
C165S*	5/8	16.0	6.31	\$57.46
C167S*	7/8	16.0	6.93	\$66.72
C303S*	3/8	30.0	8.88	\$92.10
C304S*	1/2	30.0	9.00	\$88.70
C305S*	5/8	30.0	9.25	\$88.70
C306S*	3/4	30.0	9.65	\$109.42
C307S*	7/8	30.0	9.80	\$99.38
C309S*	1 1/8	30.0	9.75	\$116.98
C414S*	1/2	41.0	9.05	\$132.04
C415S*	5/8	41.0	9.35	\$130.76
C417S*	7/8	41.0	9.81	\$128.80
C419S*	1 1/8	41.0	9.75	\$151.02
C607S*	7/8	60.0	16.00	\$196.00
C609S*	1 1/8	60.0	16.00	\$203.70



C032CAP

DRIER, ODS

- C032CAP driers allow you to pinch down copper ends to capillary tubing size
- C032CAPT has an access port on the inlet side

- C052CAPTTHH has access port on both sides and high acid removal for cleanup after burnouts



Part No.	Connection (In.)	Dessicant Volume (Cu. In.)	Overall Length (In.)	Price
C032CAP*	1/4	3.0	5.81	\$35.60
C032CAPT*	1/4	3.0	5.81	\$42.88
C052CAPTTHH*	1/4	5.0	—	\$68.22



*WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

LIQUID LINE QUICK SELECTION RECOMMENDATIONS

SYSTEM SIZE		FIELD REPLACEMENT			
TONS	LINE SIZE Inches OD	AIR CONDITIONING		REFRIGERATION	
		R-134a & R-513A (A2L)	R-22, R-407C & R-410A*	R-134a, R-404A, & R-507	R-22, R-448A & R-449A
SEALED TYPES - SPECIFY FLARE OR SOLDER					
1/4 - 1/3	CAP TUBE 1/4	C-032-CAP C-032(-S)	C-032-CAP C-032(-S)	C-032-CAP C-032(-S)	C-032-CAP C-032(-S)
1/2 - 1	1/4	C-052(-S)	C-052(-S)	C-082(-S)	C-082(-S)
	5/16	C-0525-S	C-0525-S	C-0825(-S)	C-0825-S
	3/8	C-053(-S)	C-053(-S)	C-083(-S)	C-083(-S)
1-1/2 - 2-1/2	5/16	C-0825-S	C-0825-S	C-1625-S	C-1625-S
	3/8	C-083(-S)	C-083(-S)	C-163(-S)	C-163(-S)
	1/2	C-084(-S)	C-084(-S)	C-164(-S)	C-164(-S)
3 - 6	5/16	C-1625-S	C-1625-S	—	—
	3/8	C-163(-S)	C-163(-S)	C-303(-S)	C-303(-S)
	1/2	C-164(-S)	C-164(-S)	C-304(-S)	C-304(-S)
	5/8	C-165(-S)	C-165(-S)	C-305(-S)	C-305(-S)
7 - 9	1/2	C-304(-S)	C-304(-S)	C-414(-S)	C-414(-S)
	5/8	C-305(-S)	C-305(-S)	C-415(-S)	C-415(-S)
	7/8	C-307-S	C-307-S	C-417-S	C-417-S
10 - 12	1/2	—	C-414(-S)	—	C-414(-S)
	5/8	C-415(-S)	C-415(-S)	C-415(-S)	C-415(-S)
	7/8	C-417-S	C-417-S	C-417-S	C-417-S
	1-1/8	C-419S	C-419S	C-419-S	C-419-S
13 - 18	5/8	—	C-415(-S)	—	C-415(-S)
	7/8	C-607-S	C-607-S	C-607-S	C-607-S
	1-1/8	C-609-S	C-609-S	C-609-S	C-609-S
REVERSIBLE HEAT PUMP FILTER-DRIER					
1-5	3/8 1/2 5/8	—	HPC-103-S / HPC-163-S-HH HPC-104-S / HPC-164-S-HH HPC-165-S-HH	—	—
5-16	3/8 1/2 5/8 7/8	—	HPC-303-S-HH / HPC-304-S-HH HPC-305-S-HH / HPC-307-S-HH	—	—
REPLACEABLE CORE TYPES					
4 - 9	5/8 7/8	C-485-G C-487-G	C-485-G C-487-G	C-485-G C-487-G	C-485-G C-487-G
10 - 15	5/8	—	C-485-G	—	C-485-G
	7/8	C-487-G	C-487-G	C-487-G	C-487-G
	1-1/8	C-489-G	C-489-G	C-489-G	C-489-G
16 - 29	7/8	C-967-G	C-967-G	C-967-G	C-967-G
	1-1/8	C-969-G	C-969-G	C-969-G	C-969-G
	1-3/8	C-9611-G	C-9611-G	C-9611-G	C-9611-G
30 - 39	7/8	—	C-967-G	—	C-967-G
	1-1/8	C-1449-G	C-969-G	C-1449-G	C-969-G
	1-3/8	C-14411-G	C-9611-G	C-14411-G	C-9611-G
40 - 59	1-1/8	C-1449-G	C-1449-G	—	C-1449-G
	1-3/8	C-19211-G	C-14411-G	C-19211-G	C-14411-G
	1-5/8	C-19213-G	C-14413-G	C-19213-G	C-14413-G
60 - 75	1-1/8	—	C-1449-G	—	—
	1-3/8	C-19211-G	C-19211-G	C-19211-G	C-19211-G
	1-5/8	C-19213-G	C-19213-G	C-19213-G	C-19213-G
76 - 99	1-3/8	—	C-19211-G	—	C-19211-G
	1-5/8	C-30013-G	C-19213-G	C-30013-G	C-19213-G
	2-1/8	C-40017-G	C-19217-G	C-40017-G	C-19217-G
100 - 130	1-5/8	—	C-30013-G	—	C-30013-G
	2-1/8	C-40017-G	C-40017-G	C-40017-G	C-40017-G
131 - 150	2-1/8	(2) C-30017-G	C-40017-G	(2) C-30017-G	C-40017-G
CATCH-ALL SIZE		NO. OF CORES	SECONDARY FILTER	CORE TYPE	
C-R420 Series Shell		1	—	RCW-42	
C-480 Series Shell		1	FS-480	RCW-48, RCA-48, or RC-4864-HH	
C-960 Series Shell		2	FS-960		
C-14400 Series Shell		3	FS-1440		
C-19200 Series Shell		4	FS-19200	RCW-100, RCA-100, or RC-10098-HH	
C-30000 Series Shell		3	—		
C-40000 Series Shell		4	—		

*C-30000 and C-40000 Series shells are not approved for R-410A.



SEALED

DRIER, FLARE

- Connection: M flare x M fla



C082



Part No.	Connection (In.)	Dessicant Volume (Cu. In.)	Overall Length (In.)	Price
C032*	1/4	3.0	4.19	\$26.98
C033*	3/8	3.0	4.69	\$32.90
C052*	1/4	5.0	4.75	\$31.74
C053*	3/8	5.0	5.19	\$32.30
C082*	1/4	8.0	5.62	\$39.68
C083*	3/8	8.0	6.06	\$38.70
C084*	1/2	8.0	6.31	\$44.30
C162*	1/4	16.0	6.25	\$51.64
C163*	3/8	16.0	6.75	\$49.64
C164*	1/2	16.0	6.94	\$54.18
C165*	5/8	16.0	7.25	\$58.00
C303*	3/8	30.0	9.69	\$90.90
C304*	1/2	30.0	9.88	\$88.70
C305*	5/8	30.0	10.19	\$88.70
C413*	3/8	41.0	9.56	\$136.50
C414*	1/2	41.0	9.94	\$132.04
C415*	5/8	41.0	10.25	\$130.76

DRIER, FLARE

- F: connection Male flare inlet x Female flare outle
- FM: connection Female flare inlet x Male flare outle



C032FM



Part No.	Connection (In.)	Dessicant Volume (Cu. In.)	Overall Length (In.)	Price
C032F*	1/4	3.0	3.81	\$31.46
C052F*	1/4	5.0	4.75	\$35.16
C053F*	3/8	5.0	5.19	\$43.34
C032FM*	1/4	3.0	3.81	\$37.78

SEALED DRIER



C30E5



Part No.	Connection		Dessicant Volume (Cu. In.)	Price
	Size (In.)	Type		
C30E5*	7/8	Rotolock	30.0	\$197.30



CSG083S

DRIER-SIGHTGLASS, ODS

- Drier sightglass combination for installation convenience



Part No.	Connection (In.)	Dessicant Volume (Cu. In.)	Price
CSG083S*	3/8	8.0	\$100.84
CSG084S*	1/2	8.0	\$115.74
CSG163S*	3/8	16.0	\$114.58
CSG164S*	1/2	16.0	\$131.92
CSG165S*	5/8	16.0	\$138.22
CSG304S*	1/2	30.0	\$175.34
CSG305S*	5/8	30.0	\$177.56
HPCSG103S*	3/8	10.0	\$137.90
HPCSG163S*	3/8	16.0	\$178.32

EK SERIES

- Filtration first for more effective use of surface area of desiccant
- Cushioned flow for nonturbulent performance
- Process controlled fiberglass filter network for premium filtrat
- Desiccant blend-75% molecular sieve and 25% activated alumina
- Bead type desiccant
- Ratings are suggested nominal tons, field replacement, R22, air conditioning
- The EK filter -drier is UL listed for 680 psig maximum working pressure for all sizes through 75 cubic inches. All sizes suitable for use with R410A.

LIQUID DRIER, FLARE

- Ideal for use with recovery systems
- FM: F flare inlet x M flare outlet
- MF: M flare inlet x F flare outl



EK082MF



Part No.	Connection (In.)	Dessicant Volume (Cu. In.)	Overall Length (In.)	Suggested Nominal Tons	Price
EK032FM*	1/4	3.0	3.50	1/2	\$22.12
EK032MF*	1/4	3.0	3.50	1/2	\$22.12
EK052MF*	1/4	5.0	4.50	3/4	\$27.64

*WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

DRIERS

SEALED



EK083

LIQUID DRIER, FLARE

- Connection: M flare inlet x M flare outlet



Part No.	Connection (In.)	Dessicant Volume (Cu. In.)	Overall Length (In.)	Suggested Nominal Tons	Price
EK032*	1/4	3.0	4.38	3/4	\$22.12
EK033*	3/8	3.0	4.69	3/4	\$23.76
EK052*	1/4	5.0	4.81	1	\$27.64
EK053*	3/8	5.0	5.13	1	\$27.64
EK082*	1/4	8.0	5.63	1 1/2	\$34.36
EK083*	3/8	8.0	5.94	3	\$34.36
EK084*	1/2	8.0	6.19	5	\$35.92
EK162*	1/4	16.0	6.56	2	\$44.06
EK163*	3/8	16.0	6.88	6	\$44.06
EK164*	1/2	16.0	7.06	6	\$47.16
EK165*	5/8	16.0	7.50	7 1/2	\$49.88
EK303*	3/8	30.0	9.63	4 1/2	\$79.24
EK304*	1/2	30.0	9.88	7 1/2	\$79.24
EK305*	5/8	30.0	10.31	10	\$79.24
EK413*	3/8	41.0	9.75	4	\$112.86
EK414*	1/2	41.0	10.00	10	\$112.86
EK415*	5/8	41.0	10.44	12 1/2	\$112.86



EK052S

LIQUID DRIER, ODS

- Connection: ODF inlet x ODF outlet



Part No.	Connection (In.)	Dessicant Volume (Cu. In.)	Overall Length (In.)	Suggested Nominal Tons	Price
EK032S*	1/4	3.0	3.88	3/4	\$22.12
EK032SV*	1/4	3.0	3.88	3/4	\$36.34
EK033S*	3/8	3.0	4.06	3/4	\$23.76
EK052S*	1/4	5.0	4.44	1	\$27.64
EK053S*	3/8	5.0	4.50	1	\$27.64
EK082S*	1/4	8.0	5.25	1 1/2	\$34.36
EK083S*	3/8	8.0	5.31	3	\$34.36
EK084S*	1/2	8.0	5.38	5	\$35.92
EK162S*	1/4	16.0	6.19	2	\$44.06
EK163S	3/8	16.0	6.25	6	\$44.06
EK164S*	1/2	16.0	6.31	6	\$47.16
EK165S*	5/8	16.0	6.56	7 1/2	\$49.88
EK167S*	7/8	16.0	7.50	7 1/2	\$52.40
EK303S*	3/8	30.0	9.00	4 1/2	\$79.24
EK304S*	1/2	30.0	9.13	7 1/2	\$79.24

Continued...

LIQUID DRIER, ODS (CONT'D.)



Part No.	Connection (In.)	Dessicant Volume (Cu. In.)	Overall Length (In.)	Suggested Nominal Tons	Price
EK305S*	5/8	30.0	9.31	10	\$79.24
EK306S*	3/4	30.0	9.69	12 1/2	\$83.22
EK307S*	7/8	30.0	9.88	12 1/2	\$86.54
EK309S*	1 1/8	30.0	10.25	12 1/2	\$96.18
EK414S*	1/2	41.0	9.25	10	\$112.86
EK415S*	5/8	41.0	9.44	12 1/2	\$112.86
EK417S*	7/8	41.0	10.00	15	\$112.86
EK419S*	1 1/8	41.0	10.31	15	\$122.30
EK757S*	7/8	75.0	15.44	20	\$164.14
EK759S*	1 1/8	75.0	15.75	25	\$170.02

ADK SERIES

Emerson ADK filter driers are specifically designed to protect t refrigerant system from liquid and solid contaminants. They incorporate a desiccant specially blended and molded in block form.

- Ratings are suggested nominal tonnage field replacement, R22, air conditioning



ADK083S

LIQUID DRIER, ODS

- Connection: ODF inlet x ODF outlet



Part No.	Connection (In.)	Dessicant Volume (Cu. In.)	Overall Length (In.)	Suggested Nominal Tons	Price
ADK032S*	1/4	3.0	3.88	3/4	\$19.88
ADK052S*	1/4	5.0	4.44	1	\$26.58
ADK053S*	3/8	5.0	4.50	1	\$26.58
ADK082S*	1/4	8.0	5.25	1 1/2	\$32.84
ADK163S*	3/8	16.0	6.25	6	\$42.28
ADK164S*	1/2	16.0	6.31	6	\$46.10
ADK304S*	1/2	30.0	9.13	7 1/2	\$71.36
ADK305S*	5/8	30.0	9.31	10	\$71.36
ADK307S	7/8	30.0	9.88	12 1/2	\$70.68
ADK415S	5/8	41.0	9.44	12 1/2	\$101.10
ADK417S*	7/8	41.0	10.00	15	\$103.68
ADK419S	1 1/8	41.0	10.31	15	\$130.62
ADK757S*	7/8	75.0	15.44	20	\$150.72
ADK759S*	1 1/8	75.0	15.75	25	\$156.92

*WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov



ADK162

LIQUID DRIER, FLARE

- Connection: M flare inlet x M flare outlet



Part No.	Connection (In.)	Dessicant Volume (Cu. In.)	Overall Length (In.)	Suggested Nominal Tons	Price
ADK032*	1/4	3.0	4.38	3/4	\$19.88
ADK052*	1/4	5.0	4.81	1	\$26.58
ADK053	3/8	5.0	5.13	1	\$26.58
ADK082	1/4	8.0	5.63	1 1/2	\$32.84
ADK083*	3/8	8.0	5.94	3	\$32.84
ADK162	1/4	16.0	6.56	2	\$42.28
ADK163*	3/8	16.0	6.88	6	\$42.28
ADK164*	1/2	16.0	7.06	6	\$46.10
ADK303	3/8	30.0	9.63	4 1/2	\$73.16
ADK304	1/2	30.0	9.88	7 1/2	\$71.36
ADK305*	5/8	30.0	10.31	10	\$71.36
ADK414*	1/2	41.0	10.00	10	\$103.68
ADK415	5/8	41.0	10.44	12 1/2	\$101.10



ALF034S

LIQUID LINE FILTER

The ALF is a liquid line refrigerant filter for recovery, recycle and reclaim usage. Also used for protecting solenoid and expansion valve parts from debris.

- Filtering media that maximizes removal of finer particle

- Corrosion resistant epoxy powder paint finish
- Filtration: 40 microns
- Maximum working pressure: 680 psig
- Recovery, Recycle and Reclaim Refrigerant Flow Capacity (lbs./min. liquid):
 - R-134a/R-450A/R-513A: 7.6
 - R-22/R-410A/ R-448A/R-449A: 8.0
 - R-404A/R-507: 8.0



Part No.	Connection (In.)	Overall Length (In.)	Price
ALF033S	3/8	4.00	\$24.02
ALF034S	1/2	4.3	\$24.02

ELIMINATOR® LIQUID LINE FILTER DRIERS

- Optimized for HFC and HCFC refrigerants and mineral or alkyl benzene oils
- DML Driers: 100% Molecular Sieve, designed for applications requiring the highest moisture capacity.
- DCL Driers: 80% Molecular Sieve with 20% activated alumina, perfect for systems operating at high condensing temperatures and requiring high drying capacity
- Corrosion resistant shell with copper stubs is UL approved; maximum working pressure up to 610 PSIG
- Temperature range: -40°F to 160°F



023Z5013

THE ELIMINATOR®, LIQUID DRIER, ODS

- Connection: ODF inlet x ODF outlet



Part No.	Connection (In.)	Dessicant Volume (Cu. In.)	Overall Length (In.)	Price
023Z5013	1/4	3.0	3.88	\$25.64
023Z5018	1/4	5.0	4.2	\$29.56
023Z5019	3/8	5.0	4.5	\$29.56
023Z5023	3/8	8.0	5.47	\$36.36
023Z5029	3/8	16.0	5.83	\$47.68
023Z5032	1/2	16.0	5.98	\$48.24
023Z0036	7/8	60.0	14.7	



023Z5004

THE ELIMINATOR®, LIQUID DRIER, FLARE

- Connection: M flare inlet x M flare outlet



Part No.	Connection (In.)	Dessicant Volume (Cu. In.)	Overall Length (In.)	Price
023Z5002	1/4	5.0	4.69	\$29.56
023Z5004	1/4	8.0	5.71	\$36.36
023Z5040	3/8	8.0	5.7	\$37.64
023Z5008	3/8	16.0	6.57	\$47.68

Please contact your local United Refrigeration Branch or our Customer Service Center for pricing.

*WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

SEALED



023Z8261

THE ELIMINATOR®, LIQUID DRIER, WITH SCHRADER VALVE

The Danfoss capillary tube filter driers include a Schrader valve, making servicing the system easy and convenient, and convertible outlet for fitting on capillary tube or 1/4 inc system connection. Thanks to the solid

core, Danfoss ELIMINATOR® filter driers offer exceptional drying capacity to protect the system against harmful acids and moisture.

- Inlet: 1/4" solder and 1/4" service port
- DCL with Schrader Port

ENGINEERING
TOMORROW



Connection				
Part No.	Size (In.)	Type	Dessicant Volume (Cu. In.)	Price
023Z8261	1/4	Solder, ODF	1.5	\$17.14
023Z5174	1/4	Solder, ODF	3.0	\$21.86



C163SHH

CHARCOAL CORE DRIER, ODS

Charcoal style core for wax removal and cleanup after hermetic motor burnout.



Part No.	Connection (In.)	Dessicant Volume (Cu. In.)	Overall Length (In.)	Price
C052SHH*	1/4	5.0	4.26	\$42.36
C053SHH*	3/8	5.0	4.31	\$42.36
C082SHH*	1/4	8.0	5.12	\$48.14
C083SHH*	3/8	8.0	5.25	\$47.64
C162SHH*	1/4	16.0	5.75	\$62.80
C163SHH*	3/8	16.0	5.88	\$57.60
C164SHH*	1/2	16.0	6.00	\$65.38
C165SHH*	5/8	16.0	6.31	\$69.34
C303SHH*	3/8	30.0	8.88	\$122.50
C304SHH*	1/2	30.0	9.00	\$116.80
C305SHH*	5/8	30.0	9.25	\$115.64
C417SHH*	7/8	41.0	9.81	\$163.50



C163HH

CHARCOAL DRIER, FLARE

- Charcoal style core for wax removal and cleanup after hermetic motor burnout
- Will remove wax, resins and oil breakdown products that normal desiccants will not remove



Part No.	Connection (In.)	Dessicant Volume (Cu. In.)	Overall Length (In.)	Price
C052HH*	1/4	5.0	4.75	\$44.50
C053HH*	3/8	5.0	5.19	\$44.50
C082HH*	1/4	8.0	5.62	\$50.48
C083HH*	3/8	8.0	6.06	\$50.48
C162HH*	1/4	16.0	6.25	\$62.80
C163HH*	3/8	16.0	6.75	\$59.06
C164HH*	1/2	16.0	6.94	\$69.34
C165HH*	5/8	16.0	7.25	\$69.34
C303HH*	3/8	30.0	9.69	\$122.50
C304HH*	1/2	30.0	9.88	\$115.64
C305HH*	5/8	30.0	10.19	\$115.64
C414HH*	1/2	41.0	9.94	\$163.50
C415HH*	5/8	41.0	10.25	\$163.50



HPC305HH

REVERSIBLE HEAT PUMP DRIER

These driers are designed for installation in the reversing liquid line. The smaller HPC100 Series, using the standard catch-all core, is designed specifically for new installations and for use on OEM equipment. The HPC160 and HPC300 Series

incorporate the largest core size available in the industry per filter-drier type. A larger molded core provides superior performance, and is especially advantageous for R-410A/POE lubricant systems. While intended for use in the reversing liquid line, these driers can be used in the reversing gas line, providing the system size does not exceed one ton.

- Drier operates in either flow direction with low pressure dro
- Proven metal check valves used in construction—no synthetic materials
- Recommended tonnage:
HPC100 series: 1-5 tons
HPC160 series: 1-8 tons
HPC300 series: 8-20 tons



Connection						
Part No.	Size (In.)	Type	Dessicant Volume (Cu. In.)	Overall Length (In.)	Suggested Nominal Tons	Price
HPC103*	3/8	Flare	10.0	6.75	1-5	\$74.58
HPC104*	1/2	Flare	10.0	6.94	1-5	\$77.38
HPC163HH*	3/8	Flare	14.0	7.78	1-8	\$102.84
HPC164HH*	1/2	Flare	14.0	7.95	1-8	\$111.24
HPC165HH*	5/8	Flare	14.0	8.28	1-8	\$115.02
HPC103S*	3/8	ODF	10.0	5.88	1-5	\$69.02
HPC305HH*	5/8	Flare	30.0	11.38	8-20	\$169.92

Continued...

*WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

REVERSIBLE HEAT PUMP DRIER (CONT'D.)



Part No.	Connection		Dessicant Volume (Cu. In.)	Overall Length (In.)	Suggested Nominal Tons	Price
	Size (In.)	Type				
HPC104S*	1/2	ODF	10.0	6.00	1-5	\$72.32
HPC163S*	3/8	ODF	16.0	6.92	1-8	\$99.82
HPC305S*	5/8	ODF	30.0	10.42	8-20	\$161.28
HPC163SHH*	3/8	ODF	14.0	6.92	1-8	\$101.34
HPC307S*	7/8	ODF	30.0	11.02	8-20	\$169.38
HPC164SHH*	1/2	ODF	14.0	7.07	1-8	\$103.02
HPC165SHH*	5/8	ODF	14.0	7.35	1-8	\$107.50
HPC304SHH*	1/2	ODF	30.0	10.18	8-20	\$158.36
HPC305SHH*	5/8	ODF	30.0	10.42	8-20	\$158.80
HPC307SHH*	7/8	ODF	30.0	11.02	8-20	\$162.00



BFK164

HEAT PUMP DRIER

Internal check valves allow flow and filtration in either direction. The BFK filter-drier is UL listed for 680 psig maximum working pressure for all sizes through 30 cubic inches. These sizes are suitable for use with R410A.

- Desiccant blend-75% molecular sieve and 25% activated alumina
- Ratings are flow capacity R22, 1 psi Δ, 86°F liquid temperature, 5°F saturated vapor temperature, 2.9 lb./min./tons of refrigeration (ARI Standard 710-86)



Part No.	Connection		Dessicant Volume (Cu. In.)	Overall Length (In.)	Flow (Tons)	Price
	Size (In.)	Type				
BFK052*	1/4	MFL	5.0	4.82	1.6	\$49.60
BFK083*	3/8	MFL	8.0	6.06	4.5	\$57.54
BFK084*	1/2	MFL	8.0	6.25	6.4	\$58.74
BFK163*	3/8	MFL	16.0	6.75	4.6	\$84.68
BFK164*	1/2	MFL	16.0	6.94	7.7	\$86.02
BFK165*	5/8	MFL	16.0	7.44	8.3	\$88.06
BFK304*	1/2	MFL	30.0	9.89	7.6	\$117.16
BFK083S*	3/8	ODF	8.0	5.44	5.1	\$57.54
BFK053S*	3/8	ODF	5.0	4.49	4.0	\$49.60
BFK084S*	1/2	ODF	8.0	5.50	6.7	\$58.74
BFK163S	3/8	ODF	16.0	6.13	5.2	\$84.68
BFK164S*	1/2	ODF	16.0	6.19	8.1	\$86.02
BFK165S*	5/8	ODF	16.0	6.38	8.7	\$88.06
BFK306S*	3/4	ODF	30.0	9.74	16	\$138.92



023Z1433

HEAT PUMP DRIER, BI-FLOW

Bi-flow filter driers, type DCB, are for use in liquid lines on heat pumps. Bi-flow filter driers have built-in check valves which ensure that refrigerant liquid always flows through the filter driers from the outer side of the filter core towards the center. Thus all dirt

particles are retained irrespective of flow direction

- Used in heat pumps with HCFC refrigerants and mineral oil, and HFC refrigerants and polyolester oil
- 80% Molecular Sieve with 20% activated alumina
- Connection: ODF inlet x ODF outlet
- Maximum working pressure up to 667 PSIG
- Effective dirt removal to 25 μm
- Temperature range: -40°F to 160°F

ENGINEERING TOMORROW



Part No.	Connection		Dessicant Volume (Cu. In.)	Overall Length (In.)	Price
	Size (In.)	Type			
023Z1433	3/8	ODS	8.0	5.6	\$57.58
023Z1437	3/8	ODS	16.0	5.9	\$84.42
023Z1436	1/2	ODS	16.0	6.1	\$84.42
023Z1435	5/8	ODS	16.0	6.3	\$84.42



C307STHH

SUCTION LINE FILTER DRIER

Basically the same construction as the liquid line drier but with an activated charcoal core for acid clean up and an access tap for checking pressure drop and charging the system.



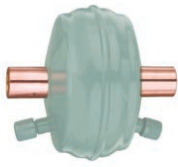
Part No.	Connection		Dessicant Volume (Cu. In.)	Overall Length (In.)	Recommended HP	Price
	Size (In.)	Type				
C083STHH*	3/8	ODF	8.0	5.25	0.75	\$61.28
C084STHH*	1/2	ODF	8.0	5.44	1.0	\$61.28
C164STHH*	1/2	ODF	16.0	6.00	2.0	\$82.44
C165STHH*	5/8	ODF	16.0	6.31	2.0	\$84.14
C166STHH*	3/4	ODF	16.0	6.75	2.0	\$89.02
C167STHH*	7/8	ODF	16.0	6.93	3.0	\$88.14
C305STHH*	5/8	ODF	30.0	9.25	3.0	\$144.32
C306STHH*	3/4	ODF	30.0	9.65	3.0	\$139.68
C307STHH*	7/8	ODF	30.0	9.80	5.0	\$136.26
C309STHH*	1 1/8	ODF	30.0	9.75	5.0	\$149.30
C417STHH*	7/8	ODF	41.0	9.81	5.0	\$182.58
C419STHH*	1 1/8	ODF	41.0	9.75	7.5	\$190.62
C437STHH*	7/8	ODF	48.0	10.34	7.5	\$317.50
C439STHH*	1 1/8	ODF	48.0	10.74	7.5	\$301.42
C4311STHH*	1 3/8	ODF	48.0	10.94	10.0	\$304.32
C4313STHH*	1 5/8	ODF	48.0	10.94	10.0	\$318.30
C607STHH*	7/8	ODF	60.0	16.00	5.0	\$269.56
C609STHH*	1 1/8	ODF	60.0	16.00	5.0	\$277.06



*WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

DRIERS

SEALED



C146STHH

COMPACT SUCTION FILTER DRIER

- Short overall length, suitable for cramped piping situations-shorter than other similar type filter-driers
- Permits easy installation, even on systems with restricted space

- Has two access valves for measuring the pressure drop across the filter-drier core during the cleanup process



Part No.	Connection		Dessicant Volume (Cu. In.)	Overall Length (In.)	Recommended HP	Price
	Size (In.)	Type				
C145STHH*	5/8	ODF	14.0	4.38	3.0	\$105.28
C146STHH*	3/4	ODF	14.0	4.83	3.0	\$103.60
C147STHH*	7/8	ODF	14.0	4.97	5.0	\$105.02
C149STHH*	1 1/8	ODF	14.0	4.93	5.0	\$122.36



ASD28F3

SUCTION DRIER

Emerson's ASD suction line filter-driers incorporate the protective filter plus a desiccant specially blended for maximum moisture and acid removal.

- Desiccant is bead type
- Low pressure drop-full flow fitting

- Dual access valves
- Solid copper fitting
- Ratings are maximum flow capacity at 40°F evaporator, R22, 3 psi ΔP tons of refrigeration (ARI standard 780-36)
- Connections: ODF inlet and outlet
- Maximum working pressure: 500 psig



Part No.	Connection (In.)	Dessicant Volume (Cu. In.)	Overall Length (In.)	Flow (Tons)	Price
ASD28F3* ¹	3/8	28.0	5.59	—	\$60.04
ASD28S3VV*	3/8	28.0	5.59	2.3	\$99.58
ASD28S4VV*	1/2	28.0	5.69	3.8	\$99.58
ASD35S5VV*	5/8	35.0	7.56	5.8	\$124.08
ASD45S6VV*	3/4	45.0	6.53	7	\$141.86
ASD45S7VV*	7/8	45.0	7.94	9.2	\$141.86
ASD50S9VV*	1 1/8	50.0	8.84	13.2	\$168.80
ASD75S11VV*	1 3/8	75.0	12.25	16.2	\$233.62
ASD75S13VV*	1 5/8	75.0	12.16	17.3	\$233.62

¹Connections are M. Flare for oil line usage



ASKHH

SUCTION FILTER DRIER

The ASK utilizes a solid core with an activated carbon blend to maximize acid, moisture and wax removal. It is for use with CFC, HCFC and HFC refrigerant

- Dual access valves for easy pressure readings

- Connection: ODF inlet and outlet
- Maximum working pressure: 500 psig
- Ratings are maximum flow capacity at 40°F evaporator, R410A, 3 psi ΔP tons of refrigeration



Part No.	Connection (In.)	Dessicant Volume (Cu. In.)	Overall Length (In.)	Flow (Tons)	Price
ASK165SVVHH*	5/8	16.0	6.38	4.1	\$72.86
ASK166SVVHH*	3/4	16.0	6.75	5.1	\$78.38
ASK167SVVHH*	7/8	16.0	6.94	5.6	\$78.38
ASK306SVVHH*	3/4	30.0	9.69	6.7	\$116.80
ASK307SVVHH*	7/8	30.0	9.88	7.4	\$116.80
ASK309SVVHH*	1 1/8	30.0	10.19	7.9	\$119.02



SFD13S7VV

SUCTION DRIER

- Smaller profile than AS
- Desiccant is bead type
- Maximum working pressure: 400 psig
- Dual access valves

- Ratings are maximum flow capacity at 40°F evaporator, R22, 3psi ΔP tons of refrigeration (ARI Standard 730-36)



Part No.	Connection		Dessicant Volume (Cu. In.)	Overall Length (In.)	Flow (Tons)	Price
	Size (In.)	Type				
SFD08F3VV*	3/8	MFL	8.0	N/A	N/A	\$79.34
SFD08S4VV*	1/2	ODF	8.0	4.94	N/A	\$69.00
SFD13F3VV*	3/8	MFL	13.0	5.50	1.4	\$77.14
SFD13S3VV*	3/8	ODF	13.0	4.84	2.2	\$75.32
SFD13F4VV*	1/2	MFL	13.0	5.75	2.4	\$77.72
SFD13S4VV*	1/2	ODF	13.0	4.94	3.5	\$75.92
SFD13F5VV*	5/8	MFL	13.0	6.13	3.7	\$80.70
SFD13S5VV*	5/8	ODF	13.0	5.16	4.9	\$78.74
SFD13S6VV*	3/4	ODF	13.0	5.25	6.4	\$80.32
SFD13S7VV*	7/8	ODF	13.0	5.75	7.2	\$82.08
SFD27S6VV*	3/4	ODF	27.0	7.00	6.4	\$115.66
SFD27S7VV*	7/8	ODF	27.0	7.50	7.5	\$112.92
SFD27S9VV*	1 1/8	ODF	27.0	7.63	8.5	\$120.66
SFD54S11VV*	1 3/8	ODF	54.0	12.25	7.3	\$183.36
SFD54S13VV*	1 5/8	ODF	54.0	12.16	7.4	\$183.82

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SF6417T

SUCTION FILTER/SINGLE DIRECTION

- For suction line filtering only
- T suffix models have access ta



	Connection					
Part No.	Size (In.)	Type	Filter Area (Sq In)	Overall Length (In.)	Recommended HP	Price
SF6417T*	2 1/8	ODF	388	10.94	55.0	\$453.56
SF6421T*	2 5/8	ODF	388	10.94	60.0	\$504.62



SF283F

SUCTION FILTER/BI-DIRECTIONAL

When flow is in one direction, the bypass relief feature is active. If the pressure drop across the element becomes excessive, the bypass relief will open slightly to maintain sufficient gas flow and assure proper cooling

of the hermetic motor. When the suction filter is installed with flow i the opposite direction, the bypass relief feature is inactive and will never open, regardless of the increase in pressure drop. The T suffix in the part number indicates that these models are equipped with an access valve to permit pressure drop readings. The access valve will be operational provided the suction filters are installed with the bypass feature inactive.

- SF283F is also used as an oil filter



	Connection					
Part No.	Size (In.)	Type	Filter Area (Sq In)	Overall Length (In.)	Recommended HP	Price
SF283F*	3/8	MFL	28	8.78	1.0	\$95.38
SF285FT*	5/8	MFL	28	8.34	4.0	\$110.94
SF285T*	5/8	ODF	28	8.34	4.0	\$110.94
SF286T*	3/4	ODF	28	8.79	5.0	\$118.14
SF287T*	7/8	ODF	28	8.93	7.5	\$115.86
SF289T*	1 1/8	ODF	28	9.51	7.5	\$125.02
SF489T*	1 1/8	ODF	48	12.42	10.0	\$186.98
SF4811T*	1 3/8	ODF	48	13.10	12.0	\$181.52
SF4813T*	1 5/8	ODF	48	13.44	15.0	\$198.94



CSFD14S6VV

SUCTION FILTER

- The CSFD has a compact 14 cubic inch, solid block desiccant core, design that is perfect for short lay-ins
- For use with CFC, HCFC and HFC refrigerants

- Dual access valves
- High acid removal
- Connection: ODF Inlet and Outlet
- Body length: 2 3/4"
- Diameter: 4 5/8"
- Flow capacity R22, 40°F Evaporator, 3 lb ΔP



Part No.	Connection (In.)	Overall Length (In.)	Flow (Tons)	Price
CSFD14S4VV*	1/2	4.25	2	\$80.88
CSFD14S5VV*	5/8	4.50	3.6	\$82.54
CSFD14S6VV*	3/4	4.38	4.9	\$86.88
CSFD14S7VV*	7/8	4.56	5.2	\$89.34
CSFD14S9VV*	1 1/8	4.88	7	\$95.84



ASF45S6VV

SUCTION FILTER

Emerson's ASF suction line filters ar specifically designed to protect the compressor from dirt and all solid contaminants.

- Connection: ODF inlet and outlet
- Dual access valves

- Ratings are maximum flow capacity at 40°F evaporator, R22, 3 psi ΔP tons of refrigeration (ARI Standard 730-36)



Part No.	Connection (In.)	Overall Length (In.)	Desiccant Volume (Cu. In.)	Price
ASF28S3VV*	3/8	5.59	28.0	\$91.82
ASF28S4VV*	1/2	5.69	28.0	\$91.82
ASF28S7VV*	7/8	7.41	28.0	\$81.50
ASF35S5VV*	5/8	7.56	35.0	\$107.44
ASF45S6VV*	3/4	6.53	45.0	\$96.48
ASF45S7VV*	7/8	7.94	45.0	\$94.00
ASF50S9VV*	1 1/8	8.84	50.0	\$102.16
ASF64S17V*	2 1/8	11.75	64.0	\$162.72
ASF75S11VV*	1 3/8	12.25	75.0	\$160.34
ASF75S13VV*	1 5/8	12.16	75.0	\$160.34

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SHELL



023Z1010

BURN-OUT FILTER

- Hermetic burn-out filter drier for fluorinated refrigerants.
- 70% activated alumina and 30% Molecular Sieve for adsorption of acid and moisture

- 2 Schrader access valves to measure pressure drop across the drier
- Max. working pressure: 500 PSIG
- 120 mesh wire mesh for solid particle retention.
- Temperature range: -40°F to 160°F
- Connection: ODF inlet x ODF outlet

ENGINEERING
TOMORROW



Part No.	Connection		Dessicant Volume (Cu. In.)	Overall Length (In.)	Price
	Size (In.)	Type			
023Z1010	5/8	ODS	16.0	6.2	\$74.82
023Z1011	3/4	ODS	16.0	6.7	\$74.82
023Z1012	7/8	ODS	16.0	6.8	\$74.82
023Z1015	7/8	ODS	30.0	9.8	\$109.34

SHELL

The bolt and nut attachment of the end plate allows for simple trouble-free installation. The nuts lock against the side of the shell for ease in tightening. The internal tie-rod construction permits assembling of the cores to the end plate and then inserting the entire assembly.

- Copper fittings for fast easy solderin
- All internal parts are plated steel-no plastic parts



C485G

DRIER SHELL, ODF

- Suggested tonnage is for field replacement in air conditioning systems, R22, liquid line
- Permanent strainer screen



Part No.	Connec- tion (In.)	Nb. of Elements	Overall Length (In.)	Nomi- nal ID (In.)	Suggested Tonnage R22	Price
C485G*	5/8	1	9.15	4.75	10	\$507.34
C487G*	7/8	1	9.30	4.75	15	\$517.52
C489G*	1 1/8	1	9.50	4.75	20	\$543.16
C4811G*	1 3/8	1	9.60	4.75	—	\$560.90
C4813G*	1 5/8	1	9.60	4.75	—	\$594.62
C967G*	7/8	2	14.84	4.75	25	\$585.60
C969G*	1 1/8	2	15.04	4.75	35	\$585.60
C9611G*	1 3/8	2	15.14	4.75	—	\$631.42
C9613G*	1 5/8	2	15.14	4.75	—	\$664.40
C1449G*	1 1/8	3	20.58	4.75	40	\$735.92
C14411G*	1 3/8	3	20.68	4.75	50	\$735.92

Continued...



DRIER SHELL, ODF (CONT'D.)

Part No.	Connec- tion (In.)	Nb. of Elements	Overall Length (In.)	Nomi- nal ID (In.)	Suggested Tonnage R22	Price
C14413G*	1 5/8	3	20.68	4.75	—	\$799.50
C19211G*	1 3/8	4	26.22	4.75	70	\$840.36
C19213G*	1 5/8	4	26.22	4.75	80	\$941.20
C19217G*	2 1/8	4	26.22	4.75	85	\$1,220.70
C30013G*	1 5/8	3	27.94	6.00	100	\$1,963.60
C30017G*	2 1/8	3	28.06	6.00	—	\$2,184.72
C40017G*	2 1/8	4	34.56	6.00	130	\$2,010.90
C40021G*	2 5/8	4	34.75	6.00	—	\$2,755.30
C40025G*	3 1/8	4	34.44	6.00	—	\$3,006.70
C40029G*	3 5/8	4	34.81	6.00	—	\$3,282.94
C40033G*	4 1/8	4	35.12	6.00	—	\$3,495.10



RSF487T

SUCTION SHELL, ODF

- Use with R48 cores; capacity is for R22, air conditioning, 3 lb. pressure drop with cores used temporarily and replaced with filte
- Bidirectional if drier cores are not used but not in same application



Part No.	Connection (In.)	Nb. of Elements	Overall Length (In.)	Suggested Tonnage R22	Price
RSF487T*	7/8	1	9.30	20	\$487.78
RSF489T*	1 1/8	1	9.37	20	\$485.34
RSF4811T*	1 3/8	1	9.60	25	\$503.68
RSF4813T*	1 5/8	1	9.60	25	\$530.32
RSF4817T*	2 1/8	1	9.37	30	\$596.32
RSF4821T*	2 5/8	1	9.75	30	\$844.70
RSF9611T*	1 3/8	2	<14.96	—	\$702.18
RSF9613T*	1 5/8	2	<14.96	—	\$726.08
RSF9617T*	2 1/8	2	14.96	40	\$745.16
RSF9621T*	2 5/8	2	15.43	50	\$858.00
RSF9625T*	3 1/8	2	15.12	50	\$1,037.02

*WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

STAS SERIES

Emerson's STAS filter -drier for liquid and suction line service offers the flexibility of using either replaceable filter cores as protection against solid contaminants, or replaceable filter -drier blocks for protection against acid, moisture and solids.

- Full flow fittings for low pressure dr
- Corrosion-resistant epoxy powder paint finis
- Sturdy steel shells for long life durability
- Nominal core size: 4 3/4"
- Connection: ODF inlet and outlet



STAS487T

LIQUID

- Capacity ratings are suggested tonnage, field replacement, R22 air conditioning



Part No.	Connection (In.)	Nb. of Elements	Overall Length (In.)	Suggested Tonnage R22	Price
STAS485T*	5/8	1	9.47	10	\$405.04
STAS487T*	7/8	1	9.69	12.5	\$405.04
STAS489T*	1 1/8	1	9.75	15	\$405.04
STAS4811T*	1 3/8	1	9.84	20	\$435.56
STAS4813T*	1 5/8	1	9.88	—	\$428.28
STAS967T*	7/8	2	15.19	25	\$471.36
STAS969T*	1 1/8	2	15.22	30	\$471.36
STAS9611T*	1 3/8	2	15.31	35	\$506.32
STAS9613T*	1 5/8	2	15.38	40	\$521.22
STAS9617T*	2 1/8	2	15.56	—	\$617.44
STAS1449T*	1 1/8	3	21.25	40	\$592.22
STAS14411T*	1 3/8	3	21.34	50	\$592.22
STAS14413T*	1 5/8	3	21.38	55	\$645.54
STAS19211T*	1 3/8	4	26.91	70	\$693.14
STAS19213T*	1 5/8	4	26.94	80	\$693.24
STAS19217T*	2 1/8	4	27.13	85	\$806.00

SUCTION

- Ratings are maximum flow capacity in tons at 40° evaporato , R22, 3 psi ΔP with drier cartridges
- Connection: ODF inlet and outlet
- Modified for suction line servic



Part No.	Connection (In.)	Nb. of Elements	Overall Length (In.)	Flow Capacity	Price
STAS4811SV*	1 3/8	1	9.84	15	\$449.34
STAS4813SV*	1 5/8	1	9.88	18	\$457.14
STAS4817SV*	2 1/8	1	10.17	31	\$492.12
STAS4821SV*	2 5/8	1	10.44	40	\$570.90
STAS9617SV*	2 1/8	2	15.56	33	\$617.44
STAS9621SV*	2 5/8	2	15.94	47	\$673.84
STAS9625SV*	3 1/8	2	15.69	64	\$767.84



ADKS30013T

LARGE VOLUME

- Nominal inside size: 6"
- Ratings are suggested tonnage, field replacement, R22 air conditioning



Part No.	Connection (In.)	Nb. of Elements	Overall Length (In.)	Suggested Tonnage R22	Price
ADKS30013T*	1 5/8	3	25.50	100	\$1,563.06
ADKS30017T*	2 1/8	3	25.59	115	\$1,622.10
ADKS40017T*	2 1/8	4	32.09	130	\$2,000.80
ADKS40021T*	2 5/8	4	33.13	150	\$2,178.36



CR424G

SMALL DIAMETER

- Use with RC4267 core
- Capacity is for R22, air conditioning, 3 lb. pressure drop, field replacement
- Nominal inside diameter: 3.5"



	Connection						
Part No.	Size (In.)	Type	Nb. of Elements	Overall Length (In.)	Nominal ID (In.)	Suggested Tonnage R22	Price
CR425G*	5/8	ODF	1	9.06	3.5"	10	\$460.70
CR427*	7/8	ODF	1	9.44	3.5"	10	\$506.44



BTAS313SV

BRASS SHELL

The Emerson BTAS for suction line service is ideal for commercial refrigeration applications. It is corrosion- and rust- resistant with stainless steel bolts and has the flexibility of using either filter driers or filter cartridges

- Ratings are maximum flow capacity at 40° evaporato , R22, 3 psi ΔP with drier cartridges in tons of refrigeration (ARI Standard 730-86)
- Full flow fittings for low pressure dr
- Corrosion free brass body
- Connection: ODF inlet and outlet



Part No.	Connection (In.)	Overall Length (In.)	Flow Capacity	Price
BTAS39SV*	1 1/8	10.31	13.6	\$477.76
BTAS311SV*	1 3/8	11.06	19.5	\$485.98
BTAS313SV*	1 5/8	11.25	23.0	\$515.94
BTAS317SV*	2 1/8	11.50	28.0	\$535.56
BTAS411SV*	1 3/8	11.41	N/A	\$734.80
BTAS413SV*	1 5/8	12.03	29.0	\$719.08
BTAS417SV*	2 1/8	12.28	43.0	\$744.88
BTAS421SV*	2 5/8	12.41	44.0	\$793.40
BTAS521SV*	2 5/8	13.56	61.0	\$1,098.28
BTAS525SV*	3 1/8	13.25	72.0	\$1,145.00

*WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

DRIERS

SHELL



3CFA26S

FILTER SHELL

- First digit: nominal shell diameter (")
- Brass one-piece shell, no rust or corrosion
- AG3 - flange gasket, 3C A
- AG4 - flange gasket, 4C A
- AG5 - flange gasket, 5C A

- Capacity at R22, +40°F evaporator, acid core, temporary, 3 psi ΔP, suction line



Part No.	Connection (In.)	Overall Length (In.)	Price
2CFA14S	7/8	8.50	\$514.78
3CFA10S	5/8	9.31	\$338.20
3CFA14S	7/8	9.31	\$629.84
3CFA18S	1 1/8	9.63	\$648.74
3CFA22S	1 3/8	9.75	\$648.74
3CFA26S	1 5/8	10.00	\$648.74
3CFA34S	2 1/8	10.19	\$655.98
4CFA14S	7/8	10.53	\$713.34
4CFA18S	1 1/8	10.53	\$841.14
4CFA22S	1 3/8	10.88	\$841.14
4CFA26S	1 5/8	11.19	\$929.94
4CFA34S	2 1/8	11.38	\$929.94
4CFA42S	2 5/8	11.53	\$929.94
5CFA34S	2 1/8	12.50	\$1,388.22
5CFA42S	2 5/8	12.69	\$1,467.04
5CFA50S	3 1/8	12.38	\$1,467.04



C966P

DRIER SHELL, FPT

- Pipe thread connections
- Use with R48 cores
- Designed for ammonia systems
- Do not use RPE core for ammonia
- Nominal inside diameter: 4.75"



Part No.	Connection (In.)	Nb. of Elements	Overall Length (In.)	Nominal ID (In.)	Price
C484P*	1/2	1	9.08	4.75"	\$695.70
C966P*	3/4	2	14.67	4.75"	\$779.68
C1448P*	1	3	20.42	4.75"	\$962.88
C19212P*	1 1/2	4	25.85	4.75"	\$1,159.28

STRAINER



89638PT

"Y" STRAINER

- Maximum working pressure: 500 psi
- Temperature rating: -20°F to +200°F
- Cleanable



Part No.	Connection		Length (In.)	Price
	Size (In.)	Type		
89638PT	3/8	FPT	2.19	\$87.76
896A-1/2S	1/2	ODS	3.38	\$169.84



6022

"Y" STRAINER

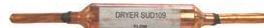
Designed for either liquid or suction line applications. They provide free flow with negligible pressure drop and can be used for a variety of liquids. All cleanable strainers have access for easy removal of screen assembly without breaking line connections.

- Suitable for refrigerants, brine, water
- Brass body, stainless steel screen



Part No.	Connection		Length (In.)	Height (In.)	Price
	Size (In.)	Type			
6022*	1/4	FPT	2.25	2.06	\$172.40
6023*	3/8	FPT	2.25	2.06	\$172.40
6034*	1/2	FPT	2.5	2.5	\$186.88
6056*	3/4	FPT	3.25	3.13	\$432.18
6088*	1	FPT	4.13	3.88	\$540.90

SPUN COPPER



SUD109

STRAINER

- Stainless steel strainer
- Tonnage: R22 125°F
- ODS connection



Part No.	Connection		Suggested Tonnage R22	Price
	Size (In.)	Type		
SUD103*	1/4	ODS	1/2	\$7.44
SUD109* ¹	1/4	ODS	1/2	\$4.94
SUD115* ²	1/4	ODS	1/2	\$8.40
SUD114*	1/4	ODS	1	\$5.78
SUD111* ²	1/4	ODS	1	\$11.34
SUD113*	1/4	ODS	1	\$8.62
SUD116*	1/4, Stepped	ODS	1	\$9.28

¹Bi-directional ²With Access Port

*WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

STRAINER



S216



Part No.	Connection		Nb. of Outlets	Length (In.)	Price
	Inlet	Outlet			
S210	1/4	0.098	1	2 3/4	\$9.96
S211	1/4	1/8	1	2 3/4	\$9.96
S212	1/4	1/4	1	2 3/4	\$9.96
S216	3/8	3/8	1	4 1/2	\$9.96
S218	3/8	1/8	1	4 1/2	\$9.96
S219	3/8	0.146	4	5	\$9.96

FILTER DRIER



CU620

Recommended for use in original equipment or replacement residential, air-conditioning or refrigeration equipment.

- All copper construction for extreme corrosion resistance

- 100% molecular sieve solid core drier
- For use with CFC, HCFC and HFC refrigerants
- Maximum working pressure: 500 psig
- Filtration: 100 microns
- Ratings are maximum flow capacity at 86°F liquid refrigerant temperature, R22, 1 psi ΔP



Part No.	Drier Volume (Cu. In.)	Connection		Nb. of Outlets	Length (In.)	Price
		Inlet	Outlet			
CU620*	2.0	5/8	Cap	1	9.5	\$21.18

FILTER DRIER, HIGH EFFICIENCY



CU163S

High capacity spun copper solid core filter drier ideal for superior corrosion resistance in ocean going vessels and coastal applications.

- All copper construction for extreme corrosion resistance

- 100% molecular sieve solid core drier
- For use with CFC, HCFC and HFC refrigerants
- Maximum working pressure: 500 psig
- Filtration: 40 microns
- Ratings are maximum flow capacity at 86°F liquid refrigerant temperature, R22, 1 psi ΔP



Part No.	Drier Volume (Cu. In.)	Connection		Nb. of Outlets	Length (In.)	Price
		Inlet	Outlet			
CU163S*	4.3	3/8	3/8	1	6.63	\$54.50



CULLD

SPUN COPPER

Parker's solid-core copper filter-driers adsorb system contaminants and provide physical filtration to system between 1/2 and 5 tons (1.8 to 17.5 kW).

- One-piece copper shells in 1-3/16 to 2" (30.2 to 50.8 mm) outside diameter, along with spun ODF solder fittings in a variety of sizes, provides easy installation
- 100% molecular sieve molded core for maximum water capacity
- Copper construction offers excellent corrosion resistance in harsh environments



Part No.	Connection		Price
	Size (In.)	Type	
CULLD83S*	3/8	ODS	\$80.90
CULLD163S*	3/8	ODS	\$92.64

ACCESSORIES



RCW42

CORE, 3 1/2" SHELL

- Standard activated core for CR42 Series shells



Part No.	Description	Diameter (In.)	Length (In.)	Price
RCW42*	Standard 3.5" Core	3.18	6.00	\$64.74



RC4864

CORE, 4 3/4" SHELL

- Cores fit many 48 cubic in. (or multiples thereof) shells
- Fit C48G—C192G, RSF48—RSF96 shells
- 61715: 100 mesh screen for cores in RSF shells



Part No.	Description	Diameter (In.)	Length (In.)	Price
RC4864*	Standard Activated Core	3.74	5.5	\$55.54
RC4864HH*	Charcoal, Wax Removal, Acid Core	3.74	5.5	\$87.10
RCW48G*	High Moisture, POE Oil Core	3.74	5.5	\$93.10
RPE48BD*	Filter Element, Suction Line	3.74	5.5	\$67.30

*WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

DRIERS

ACCESSORIES



RC10098

CORE, 6" SHELL

- Fits C300—C400 Series shells



Part No.	Description	Diameter (In.)	Length (In.)	Price
RC10098*	Standard Activated Core	4.80	6.47	\$155.14
RC10098HH*	Charcoal, Wax Removal, Acid Core	4.80	6.47	\$194.04
RCW100G*	High Moisture, POE Oil Core	4.80	6.47	\$213.20
RPE100*	Filter Element, Suction Line	4.80	6.47	\$137.86



W48

DRIER CORE

Alco's suction filter cores and desiccant blocks fit interchangeably in type ADKS and STAS filter-drier shells and all competitive shell type filter-driers. These filter-drier blocks protect the compressor from soluble and solid contaminants. To insure efficient

clean-up results, they feature exceptional acid and wax removal capacities, plus superior moisture pickup.

CORE, 4 3/4" SHELL

- Fits STAS48 — STAS196 4 3/4" shells
- Typical water capacity R22, 75°F
- D48: 363 drops H48: 597 drops UK48: 1,181 drops



Part No.	Description	Price
D48*	Standard Moisture Capacity Drier Core	\$47.40
H48*	High Moisture Capacity Drier Core	\$41.60
UK48*	Ultra High Moisture Capacity Core	\$62.10
W48*	Charcoal Core; Wax, Acid Removal	\$68.96
RH48*	Recovery Unit Core	\$85.96
F48R*	Suction Line Felt Filter Element, Reverse Flow	\$51.30

CORE, 6" SHELL

- Fits ADKS300, 400 Series 6" shells



Part No.	Description	Price
H100*	High Moisture Capacity Drier Core	\$132.98
W100*	Charcoal Core; Wax, Acid Removal	\$160.04



F35A

CORE

- Acid fighter - maximum acid reduction
- Charcoal filter fights wax build



Part No.	Description	Fits Shell Model	Primary System Usage	Price
CD35	Charcoal	3CFA	Liquid	\$149.20
CD45	Charcoal	4CFA	Liquid	\$218.92
CD55	Charcoal	5CFA	Liquid	\$228.26
DF25A	Drier/Filter	2CFA	Suction	\$132.08
DF35A	Drier/Filter	3CFA	Suction	\$147.46
DF45A	Drier/Filter	4CFA	Suction	\$199.30
DF55A	Drier/Filter	5CFA	Suction	\$255.96
F25A	Filter	2CFA	Suction	\$91.46
F35A	Filter	3CFA	Suction	\$87.52
F45A	Filter	4CFA	Suction	\$128.18
F55A	Filter	5CFA	Suction	\$166.48

CORE, 6" SHELL

- Fits Henry and most competitive rod-type assembly shells.
- 100 series shells and multiples



Part No.	Shell Volume (In. ³)	Price
810CM	100	\$71.36



876NMS

REPLACEABLE DRIER CORE

- For discontinued brass shells



Part No.	Shell Volume (In. ³)	Fits Shell Diameter (In.)	Length (In.)	Price
872NMS	10	2	5.0	\$110.74
873NMS	45	3	9.0	\$208.62
876NMS	109	4 1/4	10.5	\$257.56
875NMS	50	5	5.0	\$355.42

*WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov



FS480

SOCK FILTER

The new catch-all shell design accommodates an optional secondary filter for use in the liquid line. The filter within-a-filter concept allows the molded cores to remove the larger sized particles, while the secondary filter removes microscopic particles in circulation.

- Installed over the outlet plate assembly screen and inside the core(s)



Part No.	Use with	Price
FS480*	Shell Series C48	\$55.86
FS960*	Shell Series C96	\$61.34
FS1440*	Shell Series C144	\$87.26
FS1920*	Shell Series C192	\$98.10



A685

MOUNTING BRACKET

- For replaceable core type shell driers



Part No.	Diameter (In.)	Fits	Price
A1751*	3.5	CR42 Series Shell	\$51.22
A685*	4.75	C48 - C192, RSF48 - RSF96	\$50.20
A1752*	6	C300 - C400 Series	\$205.90



A5F

BTAS CARTRIDGE



Part No.	Description	Fits Shell Model	Price
A2F*	Filter Cartridge	BTAS2	\$52.20
A3F*	Filter Cartridge	BTAS3	\$76.14
A4F*	Filter Cartridge	BTAS4	\$110.04
A5F*	Filter Cartridge	BTAS5	\$141.54
A2FD*	Filter Drier Cartridge	BTAS2	\$74.22
A3FD*	Filter Drier Cartridge	BTAS3	\$110.34
A4FD*	Filter Drier Cartridge	BTAS4	\$152.00
A5FD*	Filter Drier Cartridge	BTAS5	\$184.80



023U1391

CORE, 4 3/4" SHELL

- 48-DM core is 100% molecular sieve formulation ideal for high moisture absorption at low and high condensing temperatures; for all refrigerants but most effective with HFCs

- 48-DC core is 80% molecular sieve and 20% for standard moisture and acid removal in all temperature ranges
- 48-DA core is 30% molecular sieve and 70% activated alumina. Solid core for acid adsorption after burnout.

ENGINEERING
TOMORROW



Part No.	Description	Type	Price
023U1391	High Moisture Capacity Drier Core	48-DM	\$34.72
023U4380	Standard Capacity Drier Core	48-DC	\$55.60
023U5381	Solid Core for Acid Absorption after Burnout	48-DA	

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MOISTURE INDICATORS

MOISTURE INDICATORS



SA12

FLARE

- KSA4: replacement cylinder/indicator for current SA indicators



Connection				
Part No.	Size (In.)	Type	Overall Length (In.)	Price
SA12*	1/4	MFL x MFL	2.87	\$44.10
SA13*	3/8	MFL x MFL	3.37	\$43.20
SA14*	1/2	MFL x MFL	3.81	\$53.30
SA15*	5/8	MFL x MFL	4.13	\$55.12
SA12FM*	1/4	FFL x MFL	2.56	\$43.46
SA13FM*	3/8	FFL x MFL	2.97	\$44.04
SA14FM*	1/2	FFL x MFL	3.44	\$52.98



SA14UU

FLARE SWIVEL

- KSA4: replacement cylinder/indicator for current SA indicators



Connection				
Part No.	Size (In.)	Type	Overall Length (In.)	Price
SA13UU*	3/8	F Swivel x F Swivel	3.95	\$66.08
SA14UU*	1/2	F Swivel x F Swivel	4.50	\$79.74
SA15UU*	5/8	F Swivel x F Swivel	4.75	\$88.44
SA13FU*	3/8	F Swivel x FFL	3.19	\$63.70
SA14FU*	1/2	F Swivel x FFL	3.75	\$76.26
SA13U*	3/8	F Swivel x MFL	3.64	\$60.08
SA14U*	1/2	F Swivel x MFL	4.13	\$74.04
SA15U*	5/8	F Swivel x MFL	4.44	\$72.32
SA13SU*	3/8	F Swivel x ODF	4.19	\$63.70
SA14SU*	1/2	F Swivel x ODF	4.62	\$76.26
SA15SU*	5/8	F Swivel x ODF	4.89	\$76.62



HMI1MM3

FLARE

- Fully hermetic design
- 3% R.H. indication
- Maximum working pressure: 680psig
- All brass body
- Solid copper fitting



Connection			
Part No.	Size (In.)	Type	Price
HMI1MM2*	1/4	MFL x MFL	\$32.88
HMI1MM3*	3/8	MFL x MFL	\$33.10
HMI1MM4*	1/2	MFL x MFL	\$42.10
HMI1MM5*	5/8	MFL x MFL	\$43.54
HMI1FM2*	1/4	FFL x MFL	\$34.32
HMI1FM3*	3/8	FFL x MFL	\$34.98
HMI1FM4*	1/2	FFL x MFL	\$42.10



AMI1MU3

FLARE

- Replaceable lens assembly
- Maximum working pressure: 600 psig



Connection				
Part No.	Size (In.)	Type	Overall Length (In.)	Price
AMI1UU5*	5/8	F Swivel x F Swivel	6.02	\$114.96
AMI1FU4*	1/2	F Swivel x FFL	4.31	\$62.30
AMI1MM4*	1/2	MFL x MFL	3.63	\$44.32
AMI1MM5*	5/8	MFL x MFL	3.88	\$46.62
AMI1FM4*	1/2	FFL x MFL	3.22	\$44.32



014L0171

FLARE

- For HCFC, HFC, HC and R744 refrigerants
- Pressure range: 0-754 psig
- Temperature Range: -58 to 175°F
- Indicates too high moisture content in the refrigeration system, lack of subcooling and refrigerant deficiency
- Equipped with sensitive indicators that reflects a color, depending on the moisture content in the refrigerant



Connection			
Part No.	Size (In.)	Type	Price
014L0171	1/4	FFL x MFL	☎
014L0172	3/8	FFL x MFL	☎
014L0173	1/2	FFL x MFL	☎

☎ Please contact your local United Refrigeration Branch or our Customer Service Center for pricing.

⚠ *WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov



SA14S

ODS

- Combination sight glass moisture indicator with extended solder ends
- AC20: replacement cartridge for SA2 glasses
- KSA4: replacement cylinder/indicator for current SA indicators



Part No.	Connection		Overall Length (In.)	Price
	Size (In.)	Type		
SA12S*	1/4	ODF x ODF	4.62	\$42.04
SA13S*	3/8	ODF x ODF	4.62	\$42.72
SA14S*	1/2	ODF x ODF	4.87	\$52.26
SA15S*	5/8	ODF x ODF	4.87	\$54.00
SA17S*	7/8	ODF x ODF	6.31	\$79.74
SA19S*	1 1/8	ODF x ODF	6.31	\$86.62
SA211*	1 3/8	ODF x ODF	8.00	\$170.88
SA213*	1 5/8	ODF x ODF	8.00	\$206.30
SA217*	2 1/8	ODF x ODF	8.00	\$247.10



HMI1TT3

ODS, TUBE

- Fully hermetic design
- 3% R.H. indication
- Maximum working pressure: 680 psig
- All brass body
- Solid copper fitting



- Connection: OD female tube

Part No.	Connection		Price
	Size (In.)	Type	
HMI1TT2*	1/4	ODF	\$34.32
HMI1TT3*	3/8	ODF	\$34.98
HMI1TT4*	1/2	ODF	\$42.10
HMI1TT5*	5/8	ODF	\$43.54
HMI1TT7*	7/8	ODF	\$64.24
HMI1TT9*	1 1/8	ODF	\$69.48



014L0181

ODS, TUBE

- For HCFC, HFC, HC and R744 refrigerants
- Pressure range: 0-754 psig
- Temperature Range: -58 to 175°F
- Indicates too high moisture content in the refrigeration system, lack of subcooling and refrigerant deficiency

- Equipped with sensitive indicators that reflects a color, depending on the moisture content in the refrigerant



Part No.	Connection		Price
	Size (In.)	Type	
014L0181	1/4	ODF x ODF	☎
014L0182*	3/8	ODF x ODF	\$43.00
014L0183*	1/2	ODF x ODF	\$50.48
014L0185	3/4	ODF x ODF	☎
014L0186	7/8	ODF x ODF	☎



AMI1SS2

ODS, STUB

- Replaceable lens assembly
- Maximum working pressure: 600 psig



Part No.	Connection		Overall Length (In.)	Price
	Size (In.)	Type		
AMI1SS2*	1/4	ODF x ODF	2.25	\$46.62
AMI1SS3*	3/8	ODF x ODF	2.25	\$45.48
AMI1SS4*	1/2	ODF x ODF	2.63	\$49.60
AMI1SS5*	5/8	ODF x ODF	2.63	\$53.08
AMI1SS7*	7/8	ODF x ODF	3.13	\$78.24
AMI1SS9*	1 1/8	ODF x ODF	3.38	\$83.82



AMI2S11

BUSHING, ODM

- Replaceable lens assembly
- Bushing style
- Maximum working pressure: 600 psig
- Solder into tee



Part No.	Connection		Overall Length (In.)	Price
	Size (In.)	Type		
AMI2S11*	1 3/8	ODM	1.56	\$53.42
AMI2S13*	1 5/8	ODM	1.69	\$62.36
AMI2S17*	2 1/8	ODM	1.94	\$77.36



014L0006

SOCKET, NPT

- For HCFC, HFC, HC and R744 refrigerants
- Pressure range: 0-754 psig
- Temperature Range: -58 to 175°F
- Indicates too high moisture content in the refrigeration system, lack of subcooling and refrigerant deficiency



Part No.	Connection		Price
	Size (In.)	Type	
014L0006	1/2	NPT	☎



SG118R

ALLIN™ MOISTURE REACTOR, SWEAT

- Flow indication and moisture sensing



Part No.	Connection		Overall Length (In.)	Price
	Size (In.)	Type		
SG118R*	1/4	Sweat Extended Ends	7.25	\$50.16

*WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

MOISTURE INDICATORS

MOISTURE INDICATORS



ALLIN™ MOISTURE REACTOR, FLARE

- Flow indication and moisture sensing

SG205R



Part No.	Connection		Overall Length (In.)	Price
	Size (In.)	Type		
SG114R*	1/4	MFL x FFL	3.06	\$50.50
SG115R*	3/8	MFL x FFL	3.25	\$56.50
SG204R*	1/2	MFL x MFL	3.94	\$66.66
SG205R	5/8	MFL x MFL	4.13	\$70.84

SIGHT GLASS



ALLIN™ LIQUID EYE, SWEAT

- Solid brass body
- Shock-resistant glass
- Flow indication only

SG119



Part No.	Connection		Overall Length (In.)	Price
	Size (In.)	Type		
SG118*	1/4	Sweat Extended Ends	7.25	\$50.16
SG119*	3/8	Sweat Extended Ends	7.75	\$53.16
SG208*	1/2	Sweat Extended Ends	7.75	\$62.84



ALLIN™ LIQUID EYE, FLARE

- Solid brass body
- Shock-resistant glass
- Flow indicator only

SG205R



Part No.	Connection		Overall Length (In.)	Price
	Size (In.)	Type		
SG110*	1/4	MFL x MFL	3.13	\$50.16
SG111*	3/8	MFL x MFL	3.38	\$56.50
SG205*	5/8	MFL x MFL	4.13	\$65.16
SG114*	1/4	MFL x FFL	3.06	\$50.16
SG115*	3/8	MFL x FFL	3.25	\$56.50



DPSG3MF

FLARE

Feature forged brass body and fittings for corrosion resistance. Leak-proof design is compact and short in length to easily fit within a unit and provide accuracy in performance.



Part No.	Connection		Price
	Size (In.)	Type	
DPSG4MF	1/2	MFL x FFL	\$47.72

ACID TEST



TA-1

ONE SHOT

The Test-All acid test kit consists of three bottles-two neutralizer and one indicator solution. The neutralizer solutions are labeled for specific oils. The solutions in the kit are stable, but are sensitive to light and heat.

CAUTION

This kit should not be used on systems which have used an oil additive leak detector. The additives can interfere with the color change point of the acid test kit.



Part No.	Description	Price
TA-1*	All Oil Test Kit	\$35.10



4320W8

PHASE III® REFRIGERATION OIL ACID TEST KIT

Formulated for use on POE's as well as mineral oils and alkylbenzene. A disposable test kit that provides proof-positive that acid level in refrigeration oil is safe or unsafe. Phase separation makes it easy to see change in color of acid indicator (even if a leak detection dye has been added to the oil). Just two bottles to work with. It is a simple, safe, accurate and small enough so you can carry several in your tool box.



Part No.	Description	Price
4320W8*	Phase III® Refrigeration Oil Acid Test Kit	\$38.80

*WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov



NQT2000

**QWIKCHECK®/
QWIKINJECTOR™**
QwikCheck®

Perform a QWIK acid test on operating systems. Ideal for preventative maintenance checks or for verifying proper acid clean-up after a compressor burn-out change-out.

- Tests to ARI-700 limit of 1 PPM in 5 seconds, meets EPA venting rules
- Works with all refrigerants and Oils
- Throw-Away Design
- Available in 1/2 or 4 oz vessels.
- Tested & Approved for R410A.

QwikInjector™

- Used to inject QwikShot or any other liquid additive into operating systems with a standard gauge set



Part No.	Description	Price
NQT2000	QwikCheck® Acid Test	\$15.20
NQT2510	QwikInjector™	\$59.46

OIL CONTROL



RG4

FLOAT REGULATOR

The RG-4 is capable of mounting directly to both Copeland and Bitzer compressors with a universal flange, eliminating the need for adapter kits and reducing installation cost. For other compressor configurations, adapter kits can be used to convert

the universal mounting to non-standard compressor mountings. The oil feed connection is a standard 3/8" SAE flare. A 1/4" SAE flar oil equalization connection is also provided. It is placed at the 1/2 glass range.

- Maximum Working Pressure - 450 psig
- Overall height: 4.5:

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Industries Inc.

Part No.	Connection		Operating Differential	Ship Wgt (Lbs.)	Price
	Size (In.)	Type			
RG4F	3/8	FL 90 Degree	5 - 30 psig	5	\$255.32
RG4FC	3/8	FL Straight	5 - 30 psig	5	\$255.10



OL60XH

FLOAT REGULATOR

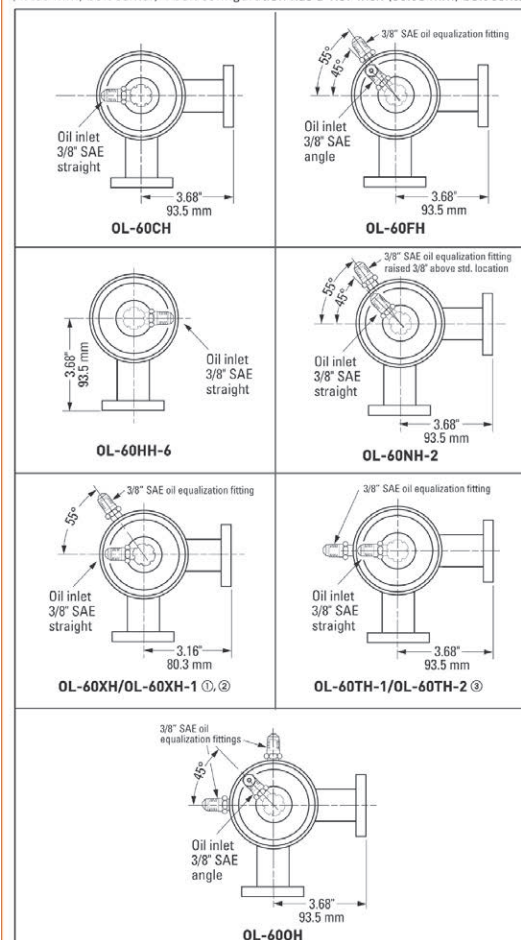
- To regulate oil level in multi compressor parallel systems
- Adjustable between 1/4 and 1/2 sightglass at pressure differentials noted below
- Overall height: 5.75" (6.16" for FH models)

- AOLA: adapter for Copeland <5 Hp
- AOLR: adapter Bitzer, 6E, 6D; Bock F; Carrier EA, ER; Copeland >5 Hp, 2D, 4D, 6D; D/B Big4; Trane M, R 1 7/8 B.C.; York GC, GS, JS (included)
- Max differential pressure: 0-90



Part No.	Overall Height (In.)	Equalizer	Ship Wgt (Lbs.)	Price
OL60CH*	5.75	None	4	\$506.48
OL60FH*	5.75	3/8" SAE	4.18	\$538.52
OL60AR*	5.75	3/8" SAE	4	\$538.52
OL60HH6*	5.75	None	3.5	\$534.00
OL60NH2*	5.75	3/8" SAE	4.12	\$600.42
OL60XH*	5.96	3/8" SAE	3.9	\$538.52
OL60TH1*	5.75	3/8" SAE	4.08	\$606.46
OL60TH2*	5.75	3/8" SAE	4.12	\$609.38

All controls have 7 bolt universal flanges; 3 bolt configuration has a 1.867 inch (47.60 mm) bolt center, 4 bolt configuration has a 1.97 inch (50.03 mm) bolt center.



- ① OL-60XH supplied with an oil equalization fitting. OL-60XH-1 supplied less an oil equalization fitting.
- ② The OL-60XH/OL-60XH-1 controls have shorter arms than the other controls.
- ③ OL-60TH-1 oil inlet and equalization fittings are at the 9 o'clock position. OL-60TH-2 oil inlet and equalization fittings are at the 12 o'clock position.
- Internally all Sporlan OL-60 controls are identical. Different models exist because of installation requirements, space constraints (short arm versions), or the desirability/location of the oil equalization fitting. For oil level controls not shown above, contact Parker Hannifin, Sporlan Division.

OIL CONTROL

OIL CONTROL



OCV20

DIFFERENTIAL CHECK VALVE

- Ensures oil flow to oil level control
- Installs at reservoir inlet



Part No.	Differential Pressure	Ship Wgt (Lbs.)	Price
OCV5*	5	0.3	\$95.44
OCV10*	10	0.32	\$93.68
OCV20*	20	0.32	\$92.24
OCV30*	30	0.32	\$92.36



POR-2

RESERVOIR

- Sight glasses with floating ball indicators; (2)-2 gallon model
- 3/8" flare rotolock valves on top and bottom
- Maximum working pressure: 500 psig

- Diameter: 6"
- Connection: 3/8" M flare rotolock valves, 3/8" M flare vent port



Part No.	Capacity (Gal.)	Length (In.)	Price
POR-2*	2	18	\$847.38
POR-4*	4	36	\$1,118.54



AOR2

OIL RESERVOIR

- Sight glasses with floating ball indicators; (2)-2 gallon model, (3)-4 gallon model
- 3/8" flare rotolock valves on top and bottom
- Mounting stud: 1/2" x 14 TPI
- Maximum working pressure: 450 psig

- Diameter: 6"
- Connection: 3/8" M flare rotolock valve



Part No.	Capacity (Gal.)	Length (In.)	Price
AOR2*	2	20	\$612.82
AOR4*	4	38	\$919.18



OR6-4

OIL RESERVOIR

The reservoir is supplied with two 3/8" flare swivel valves. All models are manufactured with sight glasses for oil level viewing.

- Welded and brazed design for higher strength

- Nitrogen tested for cleanliness
- 450 psig maximum working pressure
- 3/4" -16 spud connection for 3/8" flare swivel valves
- 3/8" flare connection for pressure vent valve



Part No.	Capacity (Gal.)	Length (In.)	Price
OR6-4	4	33.5	\$487.02
OR62	2	15.5	\$336.86



Y1236C

PRESSURE DIFFERENTIAL VALVE, ADJUSTABLE

The Sporlan Y1236-C pressure differential valve is designed for use on high pressure oil return systems or others applications where a differential pressure regulator is required. The valve permits the oil

level control mounted at the compressor to feed at any specified level because the pressurized oil at the control is slightly greater than crankcase pressure. Without the Y1236-C, excessive pressure drop across the mechanical oil level control would cause the control to overfeed the compressor. This occurs because more force is required on the float ball, thereby a higher oil level, to overcome the pressure drop through the port to close the oil level control. The Y1236-C reduces the inlet pressure by controlling a differential across the valve outlet and the force supplied to the valve's element. With high pressure oil return systems, suction pressure is supplied to the element when located between the oil separator/reservoir and the oil level control.

The Y1236-C includes a removable 100 mesh inlet strainer to protect the valve from circulating contaminants.

- The valve is adjustable from a 10 to 25 psi differential.
- Factory setting 17 psi.



Part No.	Connection		Overall Height (In.)	Ship Wgt (Lbs.)	Price
	Size (In.)	Type			
Y1236C*	3/8	MFL	6.10	1.25	\$240.80

*WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

**OIL EXCHANGE**

- Performs the recommended 5 oil flushes in minutes without allowing POE oil to absorb moisture
- Designed to remove maximum amount of oil from crankcase
- Fully ported to ensure fast removal and charging up to 6 times faster than access port valve

- Pressure gauge connection provided, with Schrader valve
- Designed to be left in system for future service
- Connection: MPT overtube x M flar



Part No.	Connection (In.)		Overall Length w/ Tube (In.)	Price
	Bottom Inlet (In.)	Side Outlet (In.)		
9297H	1/8	1/4	12.36	\$109.52
9298H	1/4	1/4	13.66	\$112.32

**OIL FILTER**

Unlike mineral and alkylbenzene oils, POE oil has solvent-like tendencies. POE oil has the ability to suspend and recirculate small, solid contaminants left from system installation or retrofit. The OF Series oil filters are designed to be 99% efficient in removing 3

micron sized particles and yet have sufficient flow capacity at a low pressure drop. The Sporlan OF Series oil filters were designed to virtually eliminate the need for oil changes resulting from suspended solid contaminants in circulation. Typically, an OF Series oil filter would be installed in the oil line between the oil reservoir and the oil header of a refrigeration rack with a low pressure oil system. If the OF-303-BP is used on a low pressure oil system, it should be installed between the oil separator and oil reservoir. On a high pressure oil system, an OF Series oil filter would be installed between the oil reservoir and the oil header.



- Pressure tap included with T suffix filter

Part No.	Connection		Overall Length (In.)	Comments	Price
	Size (In.)	Type			
OF303T*	3/8	MFL	9.69	Sealed	\$329.78
OF303BP*	3/8	MFL	10.63	Sealed, 30 Lb. ΔP Bypass	\$335.96
ROF413T*	3/8	MFL	8.12	Shell, Element Not Included	\$356.08

Part No.	Description	Price
OFE1	Oil Filter Elementy with Gasket	\$196.98

**OIL FILTER-DRIER**

Emerson's AOFD is designed specifically for refrigerant systems that use POE oil. POE oil is hygroscopic in nature, which means that it attracts and absorbs water. Moisture in a closed system can produce acid and will harm the compressor.

- Designed to clean and dry POE oil
- 3/8" male flare connections for easy replacement
- Pressure tap both ends
- Large filter surface area to provide maximum filtration
- Contains 100% molecular sieve XH-9 Desiccant for moisture removal
- Designed to operate at a very low pressure drop
- 10 micron filtration for optimum oil cleaning



Part No.	Description	Overall Length (In.)	Price
AOFD553*	Oil Filter Drier	9.63	\$179.46

HIGH EFFICIENCY OIL FILTER

- Specifically designed to protect the compressor from all solid contaminants including metallic magnetic particles
- Corrosion resistant epoxy powder paint finish
- 3/8" connections for easy installation
- 98% efficient to 4 micron particle
- Compatible with all oils
- Maximum working pressure: 500 Psig



Part No.	Description	Overall Length (In.)	Price
AOF303*	High Efficiency Oil Filter	9.63	\$235.60

**LOW PRESSURE OIL FILTER, SEALED**

- Welded and brazed design for higher strength
- Nitrogen tested for cleanliness
- Maximum working pressure: 450 psig

- 4 micron retention
- 99.5% efficient at removing 4 micron particles and large
- 330 square inches of filtering surface area
- 8 cubic inches of XH-9 desiccant (models F3-01 and F3-02 only)
- Suitable for halocarbon refrigerants and all oil types
- Replace at 15 psig pressure drop



Part No.	Connection (In.)	Overall Length (In.)	Diameter (In.)	Price
F301	3/8 Flare	7.5	3	\$156.88
F302	3/4" - 16 Spud	7	3	\$157.92
F401	3/8 Flare	7	4	\$126.24
F402	3/4" - 16 Spud	7	4	\$123.16

*WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

OIL CONTROL

OIL CONTROL



F402S

LOW PRESSURE OIL FILTER, SERVICEABLE

- Serviceable filter element
- Tapped and slotted flange for ease of assembly and removal
- Can be mounted vertically or horizontally
- Steel construction

- 4 micron retention
- 99.5% efficient at removing 4 micron particles and large
- 330 Square inches of filtering surface area
- Suitable for halocarbon refrigerants and all oil types
- Replace at 15 psig pressure drop

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Part No.	Connection (In.)	Overall Length (In.)	Diameter (In.)	Price
F402S	3/4" ODS	8.61	4	\$261.74
F402L	3/4" - 16 Spud	8.3	4	\$260.64



S4004

OIL FILTER

HENRY
TECHNOLOGIES

Part No.	Connection (In.)	Application	Price
S4004	3/8	Filter, 10 Micron	\$191.54
S4005	3/8	Filter and Drier, POE Oil	\$216.24



OMBM01

OIL LEVEL MONITOR

The Emerson Oil Watch is designed to monitor a compressor's oil level and signal an alarm if the oil level is not adequate. It can be used to shut-down the compressor in addition to its alarm capability.

Adapter for small Copeland ZF, ZS, ZB 3/4"-14 MPT includes sightglass, 2 o-rings and 3 bolts.

- Self contained unit
- SPDT alarm output
- Installs directly over compressor sight glass
- Junction box standard
- UL recognized

EMERSON

Part No.	Description	Price
OMBM01*	Oil Watch, Angle	\$912.40
KS303681*	Repair Kit	\$18.02
KS30376*	Adapter for OMBJB1, scroll (ZF, ZS, ZB), includes sightglass, 2 O-rings, 3 bolts	\$107.28
OMBACG*	Rotalock Adapter, 1 1/4" x 12 UNF-2BTHD	\$152.56



SG1206

OIL LEVEL GLASS

- Clear lens with floating ball
- Maximum temperature: 300°F
- Maximum working pressure: 500 psi

HENRY
TECHNOLOGIES

Part No.	Thread Size (In.)	Depth (In.)	Ship Wgt (Lbs.)	Price
SG1204	1/2	0.98	0.1	\$36.06
SG1206	3/4	1.07	0.15	\$39.56
SG1208	1	1.34	0.3	\$43.08



S9106H

ISOLATION VALVE

The valves allow each oil level regulator to be isolated if service is required on a compressor, oil level regulator, oil line filter -drier or strainer.

- Connection: 3/8" F. flare x 3/8" M. flar

HENRY
TECHNOLOGIES

Part No.	Type	Ship Wgt (Lbs.)	Price
S9106H	Horizontal	0.45	\$85.26
S9106V	Vertical	0.25	\$106.54



S9104

DIFFERENTIAL PRESSURE VALVE

Reservoir pressure valve maintains a positive pressure differential in the oil reservoir over the crankcase pressure. This positive pressure will insure an adequate oil supply to the oil level regulators.

HENRY
TECHNOLOGIES

Part No.	Pressure Setting (Lbs.)	Ship Wgt (Lbs.)	Price
S9104	5	0.1	\$120.30
S9104H ¹	20	0.4	\$117.44

¹Satellite Compressors

*WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov



S9400

LEVEL SENSOR

The switch consists of a sturdy nickel plated steel body with a built-in fused glass prism. This allows liquid to be optically detected by a solid state optoelectronic module. The solid state module is encapsulated in silicon. It can be easily replaced without disturbing the system.

- For oil, refrigerants, any noncorrosive, nonhazardous fluid
- Fluid temperature rating: -40°F to 210°F
- Working pressure: 1200 psi, 6000 psi burst
- Requires 3.5 mA AC, 5.5 mA DC
- Minimum load: 2 mA (without bleed resistor)
- Connection MPT



Part No.	Connection (In.)	Voltage	Switch State (No Liquid)	Current Rating (Resistive/ Inductive)	Price
S9400	1/2	120	Normally Open	0.5/36 VA	\$246.24
S9420	1/2	240	Normally Open	0.25/36 VA	\$239.80
S9420A	1/2	240	Normally Closed	0.25/36 VA	\$238.86
S9424A	1/2	24	Normally Closed	0.5/36 VA	\$236.46
S9424A1	1	24	Normally Open	0.5/36 VA	\$258.06



3033201

ADAPTER KIT

- 3033201 included with all regulators for Dunham Bush (Big 4), Trane, York, Carrier (EA, ER, 06E, 06CE), Copeland (over 5 ton)



Part No.	Application	Ship Wgt (Lbs.)	Price
3033201	Standard	0.26	\$17.14

OIL SEPARATOR

The Temprite 900/920 Series is the standard in ultra low temperature applications by virtue of its extreme performance range. They employ a matrix type borosilicate coalescent filter to do the work impingement screens formerly did. These exceptionally pure, extremely fine glass fiber matrices excite the oil molecules to collide into one another, thus agglomerating until they are forced to the outer drain layer of the filter. These droplets fall to the bottom of the separator reservoir and the oil is then returned to the compressor. The filter will pick up any and all effluent and dirt circulating in the system down to 0.3 microns. Temprite coalescent separators are not velocity dependant. The most accurate way to size a 900/920 Series oil separator for your application is to determine the actual cubic feet per minute that your compressor will be pumping.



T924

ACCESSIBLE COALESCENT

- Top Accessible cannister
- Capacity Rated: R404a, -40°F evaporator
- Maximum working pressure: 650 PSI
- Compatible with all traditional refrigerants including HC's, ammonia (NH3)*, and subcritical CO2

*To order ammonia-compatible models, please contact your local United Branch.

Temprite

Part No.	Connection Size (In.)	Dia. (In.)	Overall L. (In.)	Capacity (Tons)	CFM	Price
T922 ¹	5/8	4	17 1/4	1.4	16.94	\$586.64
T923 ¹	7/8	4	17 1/4	2.0	23.56	\$599.96
T924 ¹	1 1/8	4	21 5/8	3.5	42.4	\$873.28
T925 ¹	1 3/8	4	21 5/8	5.4	64.27	\$923.28
T926 ¹	1 5/8	6	35	9.2	110.4	\$1,619.90
T927 ¹	2 1/8	6	35	12.5	150.42	\$1,649.90

¹Length includes mounting leg



900

HERMETIC COALESCENT

- Oil Connector: 1/4" ODS
- Capacity Rated: R404a, -40°F evaporator
- Maximum working pressure: 650 PSI
- Compatible with HC's and subcritical CO2

Temprite

Part No.	Connection Size (In.)	Dia. (In.)	Overall L. (In.)	Capacity (Tons)	CFM	Price
900 ¹	3/8	4	8 1/4	0.5	6.33	\$356.64
T904 ²	1 1/8	4	18 3/8	3.5	42.4	\$636.62
T901 ¹	1/2	4	8 3/8	1.0	11.78	\$383.30
T905T ²	1 3/8	4	18 3/8	5.4	64.47	\$666.62
T902 ¹	5/8	4	10 9/16	1.4	16.94	\$479.98
T903 ¹	7/8	4	10 7/8	2.0	23.56	\$516.64

¹Length does not include mounting stud: 3/4 x 3/8" -16MPT

²Length includes mounting leg

OIL CONTROL

OIL SEPARATOR

COMPRESSOR PROTECTION

The helical oil separator features a centrifugal flow path achieving approximately 99% efficiency of oil separation with low pressure drop. The selecting of an oil separator should be first done by comparing the system tonnage or load to the rated capacities of the oil separator. The ultimate deciding factor should be the maximum discharge CFM with care taken to not select below 33% of the maximum rating.



S5180

OIL SEPARATOR/HELICAL

- Welded construction
- Capacity rated: R404A, -40°F evaporator, Maximum

CAUTION

Oversizing is not acceptable



Part No.	Connection Size (In.)	Dia. (In.)	Overall H. (In.)	Capacity (Tons)	Discharge CFM	Price
S5180	1/4	2.5	6.38	0.75	0.5	\$287.06
S5181	3/8	2.5	7.5	1.0	1.1	\$290.06



S5292

OIL SEPARATOR/HELICAL/FLANGED

- 2023001: replacement flange gaske
- A190030: replacement float assembly
- Capacity rated: R404A, -40°F evaporator, Maximum



Part No.	Connection Size (In.)	Dia. (In.)	Overall H. (In.)	Capacity (Tons)	Discharge CFM	Price
S5290 ¹	1 3/8	6	20(15)	13.6	15.5	\$816.56
S5292 ¹	1 5/8	6	22(17)	18.6	21.4	\$853.74
S5202	2 1/8	8	24	34.0	39.2	\$1,235.12
S5203	2 5/8	10	27	58.0	66.6	\$1,633.12
S5204	3 1/8	12	30	85.0	97.6	\$2,638.12

¹S529 Series separators have 5" removable legs



S5588

OIL SEPARATOR/CONVENTIONAL

- Capacity rated: R404A, -40°F evaporator, Maximum



Part No.	Connection Size (In.)	Dia. (In.)	Overall H. (In.)	Capacity (Tons)	Price
S5582	1/2	4	10.25	1.5	\$237.10
S5585	5/8	4	14.25	4.0	\$249.94
S5587	7/8	4	17.75	6.5	\$276.66
S5588	1 1/8	4	21	8.5	\$306.28



AW55855

OIL SEPARATOR/CONVENTIONAL

- Hermetic welded or accessible bolted flange construction
- Solid copper connection
- Maximum working pressure: 450 psig

- Capacity: R404A, -40°F evaporator Use on
- Multiple compressor racks for supermarkets and air conditioning
- Systems with long refrigerant lines
- Systems with inherent oil return problems
- Ultra-low temperature systems



Part No.	Connection Size (In.)	Dia. (In.)	Overall H. (In.)	Capacity (Tons)	Price
AW55824*	1/2	4	10.75	1.5	\$307.90
AW55855*	5/8	4	14.25	4.0	\$318.86
AW55877*	7/8	4	17.75	6.5	\$357.34
AW55889*	1 1/8	4	21	8.5	\$371.18
AW559011*	1 3/8	4	21.25	10.5	\$403.02
AW569213*	1 5/8	6	19	17.5	\$603.48



AF579213

OIL SEPARATOR, FLANGED

- Capacity R404A, -40°F evaporator



Part No.	Connection Size (In.)	Dia. (In.)	Height (In.)	Capacity (Tons)	Price
AF58855	5/8	5.5	14.25	1.5	\$441.16
AF58889*	1 1/8	5.5	21	8.5	\$522.36
AF589011*	1 3/8	5.5	21.25	10.5	\$543.60
AF579213*	1 5/8	4.25	20.25	17.5	\$948.24
AF579417*	2 1/8	4.5	20.31	26.0	\$1,013.02

*WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov



W1903C

LOW PRESSURE COALESCING OIL SEPARATOR

All coalescing oil separators use a borosilicate glass filter element, which is designed to remove small oil particles and system contaminants. Therefore, it is important to monitor pressure drop for new installations. Once the pressure

differential exceeds 15 psig, it is recommended to replace the filter.

COALESCING OIL SEPARATOR, LOW PRESSURE, SERVICEABLE

The filter is removable through the top flange assembly. The flange cover plate arrangement is easy to remove, eliminating the need for additional clearance during installation.

- Maximum working pressure: 450 Psig

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Part No.	Connection Size (In.)	Dia. (In.)	Height (In.)	Discharge CFM	Pre-Charge Amount (Oz.)	Price
COS405F	5/8	4	16.25	1 - 10	16.0	\$817.88
COS407F	7/8	4	16.25	1 - 10	16.0	\$660.14
COS411F	1 1/8	4	20.63	2.5 - 25	16.0	\$980.96
COS413F	1 3/8	4	20.63	2.5 - 25	16.0	\$984.46
OS613FC	1 3/8	6	29	1.4 - 30	16.0	\$1,156.88
OS6-15FC	1 5/8	6	29	1.4 - 30	16.0	\$1,163.58
OS621FC	2 1/8	3	26	1.4 - 30	25.0	\$1,175.08
W1902C	2 1/8	8	32	2.1 - 30	25.0	\$1,752.96
W1903CA	2 5/8	10	38	4 - 40	25.0	\$3,041.98
OS1231C	3 1/8	12.75	49	7 - 70	25.0	\$5,013.38
OS1431C	3 1/8	14	56	10 - 100	25.0	\$7,120.70

COALESCING OIL SEPARATOR, LOW PRESSURE, SEALED

- Maximum working pressure: 450 Psig

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Part No.	Connection Size (In.)	Dia. (In.)	Height (In.)	Discharge CFM	Pre-Charge Amount (Oz.)	Price
COS403	3/8	4	8.25	0.6 - 6	15.0	\$496.48
COS40301 ¹	3/8	4	8.25	0.6 - 6	15.0	\$533.82
COS404	1/2	4	8.38	0.6 - 6	15.0	\$450.58
COS405	5/8	4	10.56	1 - 10	15.0	\$483.84
COS407	7/8	4	10.88	1 - 10	15.0	\$528.18
COS411	1 1/8	4	17.38	2.5 - 25	15.0	\$609.06
COS413	1 3/8	4	17.38	2.5 - 25	15.0	\$672.00

¹For angled connection

COALESCING OIL SEPARATOR/RESERVOIR

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Industries Inc.

Part No.	Connection Size (In.)	Dia. (In.)	Height (In.)	Discharge CFM	Oil Capacity	Price
COS405FR ¹	5/8	4	19.5	1 - 10	0.6 Gal.	\$801.14
COS407FR ¹	7/8	4	19.5	1 - 10	0.6 Gal.	\$822.74
COS411FR ¹	1 1/8	4	28.63	2.5 - 25	0.85 Gal.	\$1,160.30
COS413FR ¹	1 3/8	4	28.63	2.5 - 25	0.85 Gal.	\$1,162.88
OS615FCR ¹	1 5/8	6	34	1.4 - 30	2 Gal.	\$1,440.06
OS621FCR ¹	2 1/8	6	34	1.4 - 30	2 Gal.	\$1,447.06
W1902CR ¹	2 1/8	8	30	2.1 - 30	2 Gal.	\$1,878.30
W1903CRA ¹	2 5/8	10	41	4 - 40	3.5 Gal.	\$3,182.96
OS1231CR ¹	3 1/8	12.75	41	7 - 70	5 Gal.	\$5,335.68
OS1431CR ¹	3 1/8	14	46	10 - 100	5 Gal.	\$7,136.52

¹With reservoir

CONVENTIONAL OIL SEPARATOR

Our standard screen style separators remove oil from refrigerant gas using three methods: velocity reduction, filtering through screens and baffling. All separated oil is then returned to the compressor crankcase or reservoir by an internal oil float valve



OS403

OIL SEPARATOR, CONVENTIONAL, LOW PRESSURE

- Capacity R404A, -40°F evaporator
- Maximum working pressure: 450 psig

Westermeyer
Industries Inc.

Part No.	Connection Size (In.)	Dia. (In.)	Overall H. (In.)	Capacity (Tons)	Discharge CFM	Pre-Charge Amount (Oz.)	Price
OS402 ¹	1/4	4	8.25	0.75	0.20 - 0.60	15.0	\$234.36
OS403 ¹	3/8	4	8.25	1.0	0.26 - 0.80	15.0	\$227.54
OS404 ¹	1/2	4	10.25	1.5	0.50 - 1.50	15.0	\$236.10
OS405 ¹	5/8	4	14.25	4.0	1.50 - 5.00	15.0	\$240.98
OS407 ¹	7/8	4	17.75	6.5	2.25 - 7.50	15.0	\$245.94
OS411 ¹	1 1/8	4	21	8.5	3.00 - 10.00	15.0	\$375.98
OS413 ¹	1 3/8	4	21	10.5	3.90 - 13.00	15.0	\$366.40
OS611 ¹	1 1/8	6	15.38	8.5	3.00 - 10.00	40.0	\$367.64
OS613 ¹	1 3/8	6	15.38	10.5	3.90 - 13.00	40.0	\$369.72
OS615 ¹	1 5/8	6	18.63	15.0	5.10 - 17.00	40.0	\$389.60
OS621 ¹	2 1/8	6	18.63	29.0	6.00 - 20.00	40.0	\$514.48
W1901 ²	1 5/8	8	21.00	21.0	5.10 - 17.00	25.0	\$1,018.74
W1902 ²	2 1/8	8	21.00	34.0	8.10 - 27.00	25.0	\$1,037.36

¹Sealed

²Serviceable



OSH405

OIL SEPARATOR, CONVENTIONAL, HIGH PRESSURE

- Maximum Working Pressure: 675 psig
- Welded design for higher strength
- Nitrogen tested for cleanliness
- All capacities shown for R-410A are based on 100°F condensing temperature

Westermeyer
Industries Inc.

Part No.	Connection Size (In.)	Dia. (In.)	Overall H. (In.)	Capacity (Tons)	Pre-Charge Amount (Oz.)	Price
OSH402	1/4	4	8.25	2.5	15.0	\$307.72
OSH403	3/8	4	8.25	2.5	15.0	\$299.82
OSH404	1/2	4	10.25	3.0	15.0	\$306.28
OSH405	5/8	4	14.25	10.0	15.0	\$309.42
OSH407	7/8	4	17.75	16.0	15.0	\$307.60
OSH411	1 1/8	4	21	21.0	15.0	\$379.44
OSH413	1 3/8	4	21	23.0	15.0	\$430.14
OSH611	1 1/8	6	15.38	25.0	40.0	\$510.78
OSH613	1 3/8	6	15.38	27.0	40.0	\$518.86
OSH615	1 5/8	6	18.63	35.0	40.0	\$535.22

OIL SEPARATOR

CENTRIFUGAL OIL SEPARATOR

Centrifugal oil separators are designed to remove large quantities of oil at a wide range of operating capacities. Field tests have shown these oil separators are up to 99% effective - even in high oil loading conditions.



OS615F

CENTRIFUGAL OIL SEPARATOR, LOW PRESSURE

- All Sealed Units come with a 3/8 Flare for the oil outlet
- Maximum working pressure: 450 psig

Westermeyer Industries Inc.

Part No.	Connection Size (In.)	Dia. (In.)	Height (In.)	Discharge CFM	Pre-Charge Amount (Oz.)	Price
OS404C ¹	1/2	4	13	1.5	15.0	\$347.38
OS405C ¹	5/8	4	15	5	15.0	\$354.46
OS407C ¹	7/8	4	17	7.5	15.0	\$378.72
OS411C ¹	1 1/8	4	19	10	15.0	\$402.64
OS613C ¹	1 3/8	6	15	13	40.0	\$528.34
OS615C ¹	1 5/8	6	17	17	40.0	\$531.56
OS613F ²	1 3/8	6	22	12	25.0	\$757.10
OS615F ²	1 5/8	6	22	17	25.0	\$765.74
OS621F ²	2 1/8	6	22.38	27	25.0	\$810.46
OS821 ²	2 1/8	8	24	38	25.0	\$1,140.00
OS825 ²	2 5/8	8	23.5	55	25.0	\$1,168.26
OS1025 ²	2 5/8	10	27	76	25.0	\$1,371.54
OS1231 ²	3 1/8	12.8	30	118	25.0	\$1,946.12

¹Sealed ²Serviceable



OSH405C

CENTRIFUGAL OIL SEPARATOR, HIGH PRESSURE

- Maximum working pressure: 675 psig
- Comes with a 3/8 Flare for the oil outlet
- Welded design for higher strength

- Nitrogen tested for cleanliness

For screw compressor applications, a high pressure oil separator/reservoir without internal float valve must be used

Westermeyer Industries Inc.

Part No.	Con-nection Size (In.)	Dia. (In.)	Height (In.)	Capacity (Tons)	Dis-charge CFM	Pre-Charge Amount (Oz.)	Price
OSH404C	1/2	4	13	3.0	1.5	15.0	\$398.96
OSH405C	5/8	4	15	10.0	5	15.0	\$420.52
OSH407C	7/8	4	17	16.0	7.5	15.0	\$432.74
OSH411C	1 1/8	4	19	21.0	10	15.0	\$470.50
OSH613C	1 3/8	6	15	27.0	13	40.0	\$575.56
OSH615C	1 5/8	6	17	35.0	17	40.0	\$605.26



OS621RES

CENTRIFUGAL OIL SEPARATOR/RESERVOIR, LOW PRESSURE

The oil separator portion is divided from the reservoir by an internal baffle, which protects the oil in the reservoir from the turbulent action of the oil separator. Two sight glasses provide visual indication of the oil

level. It is best to maintain the oil level between the two glasses. A 3/8" flare Rotolock valve is included for installation on the oil return port. This separator/reservoir is particularly effective for use with screw compressor systems.

Westermeyer Industries Inc.

Part No.	Connection Size (In.)	Dia. (In.)	Height (In.)	Discharge CFM	Oil Capacity	Price
OS407RES	7/8	4	33	7.5	2	\$646.42
OS411RES	1 1/8	4	33	10	2	\$656.88
OS613RES	1 3/8	6	33.5	12	1.5	\$673.86
OS615RES	1 5/8	6	33.5	17	1.5	\$688.06
OS621RES	2 1/8	6	33.5	27	1.5	\$700.06
OS821RES	2 1/8	8	25.5	38	2	\$1,243.54
OS825RES	2 1/8	8	25.5	55	2.5	\$1,435.52
OS1025RES	2 5/8	10	30	76	2.5	\$1,492.72
OS1031RES	3 1/8	10	30	90	2.5	\$1,658.14
OS1231RES	3 1/8	12.75	30	118	4	\$1,997.68



DP01

DIFFERENTIAL PRESSURE GAUGE

Used to indicate both visually and electronically when the filter element in a coalescing oil separator is contaminated and need replaced.

A contaminated filter affects both performance and efficiency of the oil separator itself, and the overall efficiency of the entire system.

- 24V AC/DC, 3A max. 60W max switch rating
- 12 psid switch setting
- Two 22 gauge wire leads, 12" long to connect to board
- Multi colored gauge face for easy visual inspection
- Supplied with two 6-32 mounting screws
- Aluminum body, stainless steel fittings & ceramic internals

Westermeyer Industries Inc.

Part No.	Connection Size (In.)	Description	Price
DP01	1/4	Pressure differential gauge, 1/4" MFL, 24 V AC/DC	\$245.38

REPAIR PARTS

FLOAT ASSEMBLY



51200000

Temprite

Part No.	Model Usage	Description	Price
51100000	501 - 505, 922 - 925	Seat Assembly	\$110.00
51200000	506 - 507	Seat Assembly	\$110.00
52200000	506 - 507	Needle, Seat Assembly	\$366.64
52300000	508 - 510, 928, 930	Needle, Seat Assembly	\$369.98
55000010	501 - 510, 922 - 925, 930	Bottom Plate Gasket	\$6.00

SCREEN



60002000

Temprite

Part No.	Model Usage	Pkg Qty	Price
60002000	502	2	\$70.00
60003000	503	2	\$76.66
60004000	504	2	\$80.00

FILTER KIT



62028000

Temprite

Part No.	Model Usage	Price
62034000	922 - 923	\$103.32
62037000	924 - 925	\$169.98
62028000	926 - 927	\$276.64

FLOAT ASSEMBLY

Includes float and gaske



A190030

HENRY
TECHNOLOGIES

Part No.	Description	Use with	Price
A190030	Float Assembly	S5200, S1900 series	\$365.56
A570030	Float Assembly	S5700 series	\$337.14
2023001	Gasket	All float assembly flange	\$5.78



W430038F

FLOAT ASSEMBLY WITH GASKET

This removable oil float is designed to assist in effectively meter the oil separated in the oil separator back to the compressors.

Westermeyer
Industries Inc.

Part No.	Description	Price
W430038F	Float Assembly with Gasket	\$250.08

SUCTION ACCUMULATOR



AAS3105

SUCTION ACCUMULATOR

- Designed to operate from +40°F to -40°F evaporator temperature
- Fusible plug on 4" diameter and larger units
- Solid copper fitting
- Mounting: 3/8"-16 UNC thread

- Working pressure: 300 psig
- System Capacity: tons R22, 40°F evaporator, equivalent 1°F ΔP
- Holding Capacity: Lbs R22, 40°F liquid, 50% full

EMERSON

Part No.	Conne- ction Size (In.)	Dia. (In.)	H (In.)	System Capaci- ty (Tons)	Holding Capaci- ty (Lbs.)	Ship Wgt (Lbs.)	Price
AAS384*	1/2	3	8	2	1.5	2	\$92.32
AAS3105*	5/8	3	10	3	2.0	1.1	\$97.94
AAS3125*	5/8	3	12	3	3.0	3.6	\$99.12
AAS3126*	3/4	3	12	4	3.0	1.3	\$99.12
AAS3145*	5/8	3	14	3	3.5	2.85	\$100.16
AAS3146*	3/4	3	14	4	3.5	1.5	\$100.16
AAS464*	1/2	4	6	2	2.5	1.36	\$102.20
AAS465*	5/8	4	6	3	2.5	2.2	\$102.66
AAS4105*	5/8	4	10	3	4.0	4.6	\$102.92
AAS4106*	3/4	4	10	4	4.0	4.6	\$102.92
AAS596*	3/4	5	9	4	6.0	2.55	\$109.70
AAS597*	7/8	5	9	7.3	6.0	4	\$111.02
AAS5126*	3/4	5	12	4	8.0	6.8	\$115.28
AAS5137*	7/8	5	13	7.3	8.5	7.95	\$119.62
AAS5139*	1 1/8	5	13	11.8	8.5	7.85	\$121.72
AAS6117*	7/8	6	11	7.3	10.0	10	\$187.86
AAS6139*	1 1/8	6	13	11.8	12.0	14.45	\$203.90
AAS61411*	1 3/8	6	14	18.8	14.05	16.6	\$206.30
AAS62013*	1 5/8	6	20	28.5	20.62	18.1	\$275.02
AAS62513*	1 5/8	6	25	28.5	25.0	27	\$300.36

⚠ WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

REFRIGERANT CONTROL

SUCTION ACCUMULATOR



3670

SUCTION ACCUMULATOR

Applications requiring intermittent operation of the refrigeration compressor may trap or hold quantities of liquid in the suction line which are suddenly dumped into the compressor as it starts up. Proper installation of the suction accumulator, just before

the compressor, eliminates damage. Liquid is temporarily held in the suction accumulator and metered back to the compressor along with any oil, at a controlled rate, through the metering orifice

- VERTICAL models 6" diameter and smaller (also ASME 3648) rated for R410A
- All Refrigeration Research suction accumulators of 4" through 6" diameter have fusible plugs included and installed to comply with latest UL and cUL requirements
- All models are listed or meet code
- Holding capacity and recommended tonnage: R404A, -20°F evaporator
- Minimum recommended tonnage based on oil return through accumulator.
- 3826, 3836, 3839, 3840, 3841 accumulators are horizontal orientation

REFRIGERATION RESEARCH, INC.

Part No.	Connection Size (In.)	Dia. (In.)	L (In.)	Holding Capacity (Lbs.)	Suggested Tonnage	Ship Wgt (Lbs.)	Price
Vertical							
3680	1/2	3	8.1	1.3	.06 to .25	2.6	\$84.14
3816	1/2	4	6.5	1.9	.06 to .25	3	\$84.24
3817	1/2	4	10.5	3.7	.06 to .25	4.35	\$101.44
3821	5/8	3	11.78	2.1	.08 to .45	3.0	\$112.06
3670	7/8	4	11	3.5	.33 to 1.3	5.69	\$113.06
3710	7/8	5	18	8.8	.33 to 1.3	11	\$162.90
3827	7/8	6	13	9.8	.33 to 1.3	11.3	\$175.86
3832	1 1/8	6	11	7.5	.47 to 2.5	10.98	\$172.34
3706	1 3/8	6	20.25	15.4	1.3 to 4.5	17.82	\$238.68
3648	1 5/8	8 5/8	20.0	27.2	1.3 to 7.0	44	\$1,089.26
3639	2 1/8	8.6	20	27.2	3.7 to 16	41.1	\$1,037.42
3641	2 5/8	10.8	20	44.7	6 to 25	53.75	\$1,235.10
3640	3 1/8	10.8	26	63.9	9.3 to 40	75	\$1,834.86
Horizontal							
3825	7/8	6	10.0	8.4	.33 to 1.3	8.9	\$172.66
3826	7/8	6	13.5	11.6	.33 to 1.3	12	\$176.64
3836	1 3/8	6	22.5	15.1	1.3 to 4.5	17.1	\$311.44
3839	2 1/8	6	48	36.4	3.7 to 16	44.12	\$778.52
3841	2 5/8	8.6	24	39.3	6 to 25	48	\$1,244.84
3838	2 1/8	6	36	27.2	3.7 to 16	28	\$688.68
3840	3 1/8	10.8	24	62.0	9.3 to 40	58.70	\$1,884.98



HP3701

SUCTION ACCUMULATOR, HEAT PUMP

- Accumulator with smaller orifice and protective strainers specifically for heat pump applications. Must be installed between the compressor and reversing valve

- Holding capacity and recommended tonnage: R22, +40°F evaporator

REFRIGERATION RESEARCH, INC.

Part No.	Connection Size (In.)	Dia. (In.)	Length (In.)	Holding Capacity (Lbs.)	Suggested Tonnage	Ship Wgt (Lbs.)	Price
HP3701	5/8	4	6.63	2.1	.18 to 2	3	\$90.22
HP3702	5/8	4	10.63	4.1	.18 to 2	4.4	\$169.66
HP3703	3/4	4	10.63	4.0	.22 to 3	4.85	\$108.78
HP3738	7/8	5	13.0	7.9	.53 to 4	10.05	\$140.76
HP3700	1 1/8	6	15	12.9	.76 to 9	13	\$185.82
HP3706	1 3/8	6	20.25	17.5	2 to 17	17.95	\$246.30
HP3704	1 5/8	6	24.75	20.5	2 to 28	27	\$342.26



HX3738

ACCUMULATOR HEAT EXCHANGER

- Combines the functions of a suction accumulator with the convenience of a heat exchanger coil
- All heat exchanger-suction accumulators are complete with Leek Pruf fusible plugs installed

complying with latest UL and cUL requirements, except those built to ASME code.

- Holding and recommended tonnage: R404A, -20°F evaporator
- Vertical orientation

REFRIGERATION RESEARCH, INC.

Part No.	Connection Size (In.)	Dia. (In.)	L (In.)	Holding Capacity (Lbs.)	Suggested Tonnage	Ship Wgt (Lbs.)	Price
HX3701	5/8	4	6.63	1.9	.08 to .45	3	\$143.14
HX3702	5/8	4	10.63	3.6	.08 to .45	4.85	\$169.68
HX3738	7/8	5	13	6.9	.33 to 1.3	10.68	\$217.68
HX3700	1 1/8	6	15	11.4	.47 to 2.5	15.25	\$280.82
HX3706	1 3/8	6	20.25	15.4	1.3 to 4.5	20.55	\$397.06
HX3704	1 5/8	6	24.75	19.9	1.3 to 7	27	\$492.50
HX3639	2 1/8	8.6	20	27.2	3.7 to 16	50	\$2,024.28
HX3641	2 5/8	10.8	20	44.7	6 to 25	65	\$2,203.18
HX3640	3 1/8	10.8	26	63.9	9.3 to 40	75	\$2,854.86



A507

LOW PRESSURE SUCTION ACCUMULATOR, UL LISTED

Suction line accumulators are designed to act as a temporary holding vessel between the outlet of the evaporator and the inlet of the compressor. During flood back conditions, the accumulator traps the liquid charge and allows it to

be evaporated and fed to the compressor at a controlled rate. The internal U-tube includes an orifice, which ensures proper metering of the oil back to the compressor.

- Welded and brazed design for higher strength
- Nitrogen tested for cleanliness
- Nickel plated connections
- Screened orifice for proper oil return
- UL version include fusible plug - rated to 430°F
- Maximum working pressure: 450 psig
- Holding Capacity R22 rated

Westermeyer Industries Inc.

Part No.	Connection Size (In.)	Dia. (In.)	L (In.)	Holding Capacity (Lbs.)	Ship Wgt (Lbs.)	Price
A507	7/8	5	10	4.0	9	\$219.24
A611	1 1/8	6	18.75	13.0	20	\$252.24
A613	1 3/8	6	23	15.5	24	\$302.12
A615	1 5/8	6	23	14.5	25	\$308.78



A1031

LOW PRESSURE SUCTION ACCUMULATOR, ASME

ASME accumulators are used to prevent liquid slugging of the compressor during a flood-back condition. If liquid enters the compressor cylinder, costly damage can occur. These accumulators

capture excess liquid leaving the evaporator, allowing the system to vaporize it during normal operation, returning only refrigerant vapor to the compressor. A weep hole is included in the internal tube to facilitate proper oil return from the accumulator to the operating system.

- Low pressure drop
- Positive oil return
- Maximum working pressure: 450 psig
- Holding Capacity R22 rated

Westermeyer Industries Inc.

Part No.	Connection Size (In.)	Dia. (In.)	L (In.)	Holding Capacity (Lbs.)	Ship Wgt (Lbs.)	Price
A8-15	1 5/8	8 5/8	22	28.0	30	\$695.12
A821	2 1/8	8 5/8	22	23.0	41	\$925.60
A1025	2 5/8	10 3/4	22	32.0	61	\$1,041.48
A1031	3 1/8	10 3/4	25	25.0	67	\$1,166.34

REFRIGERANT RECEIVER

Holding capacity: 90% full 90°F for R22, R134A and R502; for R12 multiply by 1.1; for R404A and R402B multiply by 0.9

Working pressure: 500 psi



1911

VERTICAL

- Permanent fusible plug
- Connection: inlet male flare fitting outlet male flare valve (except 9021RR: inlet IDS fitting x outlet IDS valve)

REFRIGERATION RESEARCH INC.

Part No.	Dimensions (In.)		Holding Cap. (Lbs.)	Connection		Ship Wgt (Lbs.)	Price
	Dia.	L		Size (In.)	Type		
1920	3.5	7.5	2.0	1/4	SAE	3.4	\$97.66
1917	3.5	10.0	3.0	1/4	SAE	1.75	\$101.22
1921	4	10.0	4.0	1/4	SAE	4.5	\$118.00
9021RR	4	10.0	4.0	1/4	IDS	4.5	\$117.58
1918	5	10.0	6.0	1/4	SAE	7.05	\$130.94
5315	5	10.0	6.0	3/8	SAE	3.6	\$130.94
1911	6	12.0	10.0	3/8	SAE	12.34	\$174.90
3212	6	18.0	16.0	1/2	SAE	16.35	\$230.82



2030

VERTICAL

- ID sweat connections
- Fusible plug not installed

REFRIGERATION RESEARCH INC.

Part No.	Dimensions (In.)		Holding Cap. (Lbs.)	Connection		Ship Wgt (Lbs.)	Price
	Dia.	L		Size (In.)	Type		
2030	3	10	2.0	1/4	IDS	2.4	\$83.68



1919

HORIZONTAL

- Fusible plug, removable
- Vertical valve assembly, outlet
- Connection: flare outlet x IDS inle

REFRIGERATION RESEARCH INC.

Part No.	Dimensions (In.)		Holding Cap. (Lbs.)	Connection		Ship Wgt (Lbs.)	Price
	Dia.	L		Size (In.)	Type		
1919	5	28	19.0	3/8		16.6	\$250.50
1923	5	23	15.0	1/2		15	\$246.48

REFRIGERANT CONTROL

REFRIGERANT RECEIVER



1947

HORIZONTAL

- Fusible plug, removable
- Horizontal valve assembly, outlet
- Connection: flare outlet x IDS inle

REFRIGERATION RESEARCH, INC.

Part No.	Dimensions (In.)		Holding Cap. (Lbs.)	Connection (In.)		Ship Wgt (Lbs.)	Price
	Dia.	L					
1947	3.5	9	3.0	3/8		3.3	\$108.40



3310RR

VERTICAL, HIGH PRESSURE, BULL DOG

Designed specifically for higher pressure requirements for use in R-410A systems.

- Holding capacity: 90% 90°F
- Working pressure: 675 psi

- Rotolock connections
- Leek Pruf® fusible plug installed

REFRIGERATION RESEARCH, INC.

Part No.	Dimensions (In.)		Holding Cap. (Lbs.)	Connection		Ship Wgt (Lbs.)	Price
	Dia.	L		Size (In.)	Type		
3310RR	6	12	9.0	1	RL	13	\$239.12



HR306

HORIZONTAL

- Due to the high working pressures of R410A, any receiver must be customized to conform to ASME construction. Please contact branch/customer service for more information

- Working pressure: 450 psi
- Sweat connections
- Receiver only; mounting arrangements (add-on-brackets) are optional
- Pumpdown calculated for R22, 80% volume, 90°F liquid
For other refrigerants multiply listed value by factor below
R12 x 1.10
R134a x 1.01
R404A x 0.89
R507 x 0.88

Standard
Refrigeration LLC

Part No.	Dimensions (In.)		Pumpdown (Lbs.)	Connection		Ship Wgt (Lbs.)	Price
	Dia.	L		Inlet	Outlet		
HR306	6	30	25.0	5/8 S	5/8 S	28.87	\$618.00
HR4885	8 5/8	48	84.0	1 1/8 S	1 1/8 S	77	\$1,092.30
HR6085	8 5/8	60	106.0	1 1/8 S	1 1/8 S	108	\$1,135.38
HR48105	10 3/4	48	128.0	1 3/8 S	1 3/8 S	115	\$1,236.92
HR60105	10 3/4	60	162.0	1 3/8 S	1 3/8 S	166	\$1,338.46

NOISE ABATEMENT



S6311

DISCHARGE LINE MUFFLER

Mufflers have internal baffles designed for minimum pressure drop. These baffles change the velocity of the discharge gasses passing through the muffler. This results in a dampening effect on high frequency sound waves on high speed compressors. Pulsating waves are also muffled in both low speed and high speed compressors.

HENRY
TECHNOLOGIES

Part No.	Connection Size (In.)	Diameter (In.)	Length (In.)	Ship Wgt (Lbs.)	Price
S6304	1/2	3	7.75	1.2	\$100.34
S6305	5/8	3	7.75	2	\$105.10
S6405	5/8	4	6.75	3	\$117.10
S6307	7/8	3	9.69	1.1	\$113.78
S6407	7/8	4	7	3.5	\$119.96
S6311	1 1/8	3	9.69	2.5	\$115.10
S6413	1 3/8	4	13.75	2.5	\$160.56
S6415	1 5/8	4	18.75	7	\$203.04
S6621	2 1/8	6	21	18	\$391.90
S6625	2 5/8	6	21	20	\$414.14



AM5

DISCHARGE LINE MUFFLER ADJUSTABLE

- Provided with a stem that can be turned to tune the muffler to the individual characteristics of the system
- Fusible plug installed

REFRIGERATION RESEARCH, INC.

Part No.	Connection Size (In.)	Diameter (In.)	Length (In.)	Suggested Tonnage	Ship Wgt (Lbs.)	Price
AM5	5/8	4	10	2 to 5	5.5	\$219.60



MH10

DISCHARGE LINE MUFFLER, HIGH PRESSURE

Designed for the higher pressure requirements for systems using R410A. The tough requirements needed for these special models are made to the approved Underwriters Laboratory requirements necessary to meet the 675 psig working pressure.

REFRIGERATION RESEARCH, INC.

Part No.	Connection Size (In.)	Diameter (In.)	Length (In.)	Suggested Tonnage	Ship Wgt (Lbs.)	Price
MH3	1/2	2	7.44	3	1	\$55.26
MH10	7/8	3	9	7 1/2 to 10	3.05	\$88.16



DISCHARGE LINE MUFFLER

- Discharge mufflers to smooth out gas pulsations and reduce vibration and noise
- Removable fusible plug installed models M30, M60, M80

M10

REFRIGERATION RESEARCH, INC.

Part No.	Connection Size (In.)	Diameter (In.)	Length (In.)	Suggested Tonnage	Ship Wgt (Lbs.)	Price
M2	3/8	2	7.44	2	3.4	\$46.54
M3	1/2	2	7.44	3	1	\$50.70
M5	5/8	2	7.44	5	302	\$63.70
M10	7/8	3	9	7.5 to 10	2.6	\$80.92
M15	1 1/8	3	9.25	10 to 15	2.8	\$100.50
M20	1 3/8	3	13.75	15 to 25	3.3	\$116.70
M30	1 5/8	4	16	25 to 50	6.5	\$152.72
M60	2 1/8	6	26.5	50 to 75	26	\$461.68
M80	2 5/8	6	28	75 to 100	27	\$476.70

FLOAT VALVE

Pipe-threaded for pipe connections and locknut (male inlet)
 Machined flange for support against tank wall
 All bronze bodies
 Serrated arms for quick and easy adjustment of water level
 High tensile manganese bronze long and short arms
 Maximum pressure: 165 psi
 Maximum temperature: 180°F



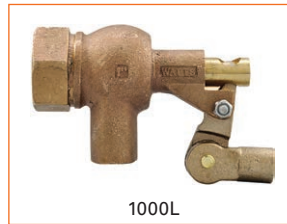
375L

MPT INLET

- Non-threaded outlet

WATTS®

	Connection					
Part No.	Size (In.)	Type	Stem Fitting	Length (In.)	Wgt (Lbs.)	Price
375L	3/8	MPT	1/4 - 20	3	0.51	\$140.24
500L	1/2	MPT	1/4 - 20	3 1/2	0.706	\$123.54
750L	3/4	MPT	1/4 - 20	4	1.14	\$158.60



1000L

FPT INLET

- Non-threaded outlet

WATTS®

	Connection					
Part No.	Size (In.)	Type	Stem Fitting	Length (In.)	Wgt (Lbs.)	Price
1000L	1	FPT	5/16 - 18	3	1.81	\$275.30
1250L	1 1/4	FPT	3/8 - 16	5 1/2	3.16	\$492.46
1500L	1 1/2	FPT	3/8 - 16	5 1/2	3.0	\$493.34
2000	2	FPT	3/8 - 16	6	3.35	\$506.16



11

STEM

- Brass with threads both ends

WATTS®

Part No.	Thread Ends 1	Thread Ends 2	Length (In.)	Diameter (In.)	Wgt (Lbs.)	Price
11	1/4 - 20	1/4 - 20	10	1/4	0.14	\$34.94
115	1/4 - 20	5/16 - 18	12	5/16	0.27	\$47.04
12L	5/16 - 18	5/16 - 18	12	5/16	0.27	\$46.16
125	5/16 - 18	3/8 - 16	12	3/8	0.39	\$46.16
13L	3/8 - 16	3/8 - 16	12	3/8	0.39	\$45.74



AD10

STEM ADAPTER

WATTS®

Part No.	Male Float Thread (In.)	Female Stem Thread (In.)	Price
AD10	1/4-20	5/16-18	\$74.80
AD11	1/4-20	3/8-16	\$74.80

WATER VALVES

FLOAT VALVE



PLASTIC FLOAT

- Nonelectrolytic, highly corrosion resistant
- Unaffected by salts, caustic fluid
- All injection molded polyethylene
- Resistant to sunlight deterioration
- Maximum temperature: 140°F



EVAPORATIVE COOLER FLOAT

- Bronze body
- Machined in-seat
- Buna N Seals
- Adjustable brass arms
- Polyethylene float
- Copper tube compression inlet connection

- Maximum pressure: 100 psi
- Maximum temperature: 140°F
- 100 psi capacity: 3 GPM
- Length: 12", 5 3/4" stem



Part No.	Diameter (In.)	Thread Female	Wgt (Lbs.)	Price
PX	4 x 5	1/4 - 20	0.14	\$48.74
P6	6	1/4 - 20	0.46	\$55.56
P-8	8	3/8 - 16	0.79	\$67.96

Part No.	Connection Size (In.)	Wgt (Lbs.)	Price
C1/4TF	1/4	0.375	\$48.74
C3/8TF	3/8	0.375	\$53.86



COPPER FLOAT

- High grade copper construction
- Firmly bonded overlapping joints (lead-free solder)
- Maximum temperature: 200°F



Part No.	Diameter (In.)	Thread Female	Wgt (Lbs.)	Price
C4L	4	1/4 - 20	0.27	\$120.56
C5L	5	1/4 - 20	0.41	\$150.46
C6L	6	1/4 - 20	0.52	\$174.44
C67	6	5/16 - 18	0.52	\$174.44
C63	6	3/8 - 16	0.52	\$174.44
C7L	7	5/16 - 18	0.96	\$303.54
C8L	8	3/8 - 16	1.25	\$469.40
C10L	10	3/8 - 16	2.75	\$904.60

RECOMMENDED SIZES

Valve Size (Inches)	Inlet Pressure (psi)							
	20	40	60	80	100	120	140	160
3/8	4" Dia. Float and #11 Stem		4" x 5" Float and #11 Stem	5" Dia. Float and #11 Stem	6" Dia. Float and #11 Stem			
1/2	4" Dia. Float and #11 Stem	4" x 5" Float and #11 Stem	5" Dia. Float and #11 Stem	6" Dia. Float and #11 Stem			8" Dia. Float	
3/4	4" Dia. Float and #11 Stem	4" x 5" Float and #11 Stem	5" Dia. Float and #11 Stem	6" Dia. Float (C67) and #11.5 Stem	7" Dia. Float and #11.5 Stem			
1	7" Dia. Float and #12L Stem	8" Dia. Float and #13L Stem		10" Dia. Float and #12.5 Stem		12" Dia. Float and #12.5 Stem		
1 1/4 to 2	8" Dia. Float and #13L Stem		10" Dia. Float and #13L Stem		12" Dia. Float and #13L Stem	P16 Float and #13L Stem		

This chart is used to select the proper float and stem for the selected valve size at a given inlet pressure. Do not exceed the maximum pressure of the selected valve. Example: Valve inlet—3/4", inlet pressure—85 psi, use a 6" diameter float and a #11.5 stem.

AUTOMATIC CONDENSATE PUMP



CP22115

CONDENSATE PUMP

- Audible Alarm (80 db), alerts when reservoir is full
- Overflow safety switch: N/C contacts open when reservoir is full or power is lost
- Metal hanging tabs
- 4 condensate inlets
- Anti-vibration rubber feet
- Check valve (can be opened to drain condensate into reservoir)



Part No.	Voltage	Amps	Watts	Tank Capacity (Gal.)	HP	Max. Lift (Ft.)	Price
CP22115	115/1/60	1.5	80	1.0	1/10	22.0	\$79.88



ASPMWUNI

MINI WHITE

Designed to be fitted below the indoor unit, the Mini White offers an extremely easy to install mini pump for all wall and ceiling suspended indoor units. Snap-on snap-off cover allows for easy filter maintenance.

- Fits any mini-split up to 30,000 Btu/h
- Self-priming, automatically operates on water rise
- External mount allows for easy cleaning of filter cartridge
- Quiet, only 21 db(A)
- Kit includes: monobloc pump assembly, 39" power cable, inline fuse, installation manual, wall anchors, screws, hose clamp



Part No.	Voltage	Cutoff		Dimensions (In.)			Price
		GPH	Head (Ft.)	H	W	L	
ASPMWUNI	100-250	2.8 0'	33	4 1/2	2	7 1/8	\$372.90



SI302

PISTON PUMP

- Quiet in operation
- The size of the air-conditioning unit and volume of condensates to be removed does not affect the operational sound level of the pump
- New mounting bracket: allows the pump to be wall mounted or hung from ceilings and pipework
- Piston pump
- Anti-vibration mounting bracket
- Plug in power cable with 2 safety switch wires (5ft)
- 6 tie wraps, 1/10" x 4"
- Detection unit SI2958, with 5 ft cable
- Rubber elbow
- Vent tube
- Mounting rail
- Adhesive

- Improved performance and high flow rate reduce operation time and energy consumption
- Kit includes:



Part No.	Voltage	Cutoff		Use with	Price
		GPH	Head (Ft.)		
SI301	120/1/60	2.6	20	AC units up to 5.6 tons	\$198.90
SI302	230/1/60	2.6	20	AC units up to 5.6 tons	\$198.90
SI331	120/1/60	N/A	N/A	AC Units 5.6 tons to 8.4 tons	\$285.60
SI332	230/1/60	N/A	N/A	AC Units 5.6 tons to 8.4 tons	\$285.60



3004045

AUTOMATIC CONDENSATE PUMP, GOBI II

The Gobi II has a massive flow range allowing its use from 6,000 Btu/H (1.75kW) up to 120,000 Btu/H (35 kW). Its digital water sensor, universal voltage and user configurable flow ensure it is the strongest, quietest under A/C mounted condensate pump on the market today.

- Integrated replaceable 10 A fuse
- Diagnostic LED: ensures correct initial installation and assists in diagnostics
- USB connection View operational pump history
- Max flow rate: 11 GP
- Max suction: 10' self priming
- Max head: 65.60 ft



	Cutoff				Dimensions (In.)				
Part No.	Head (Ft.)	Voltage	Amps	Watts	H	W	L	Check Valve	Price
3004045	65.60	100-240	10	8	2.1	2.1	11.3	Included	\$331.20

AUTOMATIC CONDENSATE PUMP



ARCTIKBLUE® PUMP ASSEMBLY

The ARCTIKBLUE® incorporates the MEGABLU® pump in a tough steel tray. Eliminating stuck float switches the use of the BLUEDIAMOND® thermistor technology quickly and efficiently removes all the condensate from the dairy pan, reducing the

conditions that allow organic growth to build up and block drains.

- Thanks to a strong steel casing, it can withstand far rougher treatment than many other cabinet pumps on the market
- Unique capability of being able to pump sludge that commonly builds up in refrigeration units

- Low profile
- Easy to install
- Fault free sensing

Also available is the ARCTIKBLUE® swap out kit. Designed for use in multideck and dairy cabinet condensate removal, it incorporates the ultra-reliable Rotary Diaphragm technology. Removing up to 13.2 Gallons of water per hour at a maximum working head of 66 feet, the ARCTIKBLUE® is able to run dry or self-prime, meaning it can be sited above any pipe work and away from hazardous areas.

Blue Diamond
Pumps Inc

Part No.	Voltage	Cutoff		Dimensions (In.)			Price
		GPH	Head (Ft.)	H	W	L	
X87839*	110/230	13.2	66	3.4	12.0	16.9	\$1,257.02
X87841 ¹	110/230			3.4	12.0	16.9	\$556.94

¹ARCTIKBLUE® swap out kit



MICROBLUE®

With no additional silencing accessories required, not only is the MicroBlue® a silent running pump but it can also be mounted in any orientation whilst operating both wet and dry continuously. The MicroBlue® is a dual voltage pump which uses proven thermistor level sensing technology to remove the risk of stuck or sunken float switches

- Can be mounted in any orientation up to 6ft away from the air conditioning unit.
- 3 year warranty

Blue Diamond
Pumps Inc

Part No.	Voltage	Cutoff		Dimensions (In.)			Price
		GPH	Head (Ft.)	H	W	L	
X85003*	110/230	1.3	16	1.57	1.46	5.9	\$335.78



MEGABLU® WITH RESERVOIR

MegaBlue™ has the performance to overcome all installation difficulties, just plug and play, fit and forget. The revolutionary pump operating principle makes it inherently reliable and is backed by a 3-year warranty.

- Dry suction lift 23 ft (self priming)
 - Very quiet (22 dB) and low vibration
 - Slimline/lightweight 2.2 lbs
 - Thermally protected pump
 - Integral failsafe alarm
 - Includes reservoir sensing with alarm contacts
- You can limit service calls to stalled or clogged mini pumps.

Blue Diamond
Pumps Inc

Part No.	Voltage	Cutoff		Dimensions (In.)			Price
		GPH	Head (Ft.)	H	W	L	
X87835*	110/230	13.2	66.5	2.66	2.28	9.83	\$553.90

*WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov



MAXIBLUE™ WITH RESERVOIR

Designed for high humidity environments MaxiBlue™ benefits from being a small powerful pump that is controlled by Blue Diamond's patented sensing technology (only senses when water is present offering an energy efficient drainage solution)

- Dry suction lift 16.5 ft (self priming)
- Very quiet (21 dB) and no vibrations
- Thermally protected
- Proven rotary diaphragm technology
- Energy efficient
- Integral failsafe alarm
- Can be mounted in any orientation
- Includes reservoir sensing with alarm contacts

MaxiBlue™ is ideally suited for mid range air conditioning systems. Its exceptional reliability is backed by a 3-year warranty and class leading performance/suction lift has led it to be installed in environments that are both demanding and expensive to access for maintenance.

Blue Diamond
Pumps Inc

Part No.	Voltage	Cutoff		Dimensions (In.)			Price
		GPH	Head (Ft.)	H	W	L	
X87711*	110	3.7	23	2.65	2.28	6.2	\$405.34
X87721*	208-230	3.7	23	2.65	2.28	6.2	\$405.34



BLUE DIAMOND PUMP ACCESSORIES

Blue Diamond
Pumps Inc

Part No.	Description	Price
C13103*	5m Extension Cable	\$78.80
C13192*	Alarm Extension Cable	\$65.64
C21014*	MultiTank Kit Reservoir	\$178.72
F10011*	Mounting Feet	\$39.36
T18016*	Fascia Kit (Fits X85003)	\$73.86
T18007*	Ducting Kit for MicroBlue Pump: conceals pump, reservoir, line-set and 14/4 wire between indoor unit and ceiling	\$78.70



VCC-20 SERIES

- Low profile for limited space
- Vertical centrifugal pump design
- Automatic start, stop and high level water detection (safety overflow switch)
- 3/8" OD barbed discharge adapter with built-in check valve (installed on the pump)
- Two inlet openings (one 1.0" and one 1-1/8" diameter)
- Safety overflow float activated switch
- Two 5" safety overflow switch lead wire
- Thermally protected, fan cooled motor
- Built-in wall mount tabs
- Intermittent liquid temperature up to 120°F
- 20' shut-off head
- 6 ft, 3-conductor cable with grounded 3-prong plug (115 V and 230 V models)

- 1/4" OD barbed discharge adapter (included in the box)

Little GIANT

Part No.	Voltage	Amps	Watts	HP	Dimensions (In.)			GPH at				Shut-Off		Price
					H	W	L	1 ft	5 ft	10 ft	20 ft	Ft	Psi	
VCC20ULS115	115	1.5	93	1/30	5	5	11.44	80	70	45	0	20.0	8.6	\$146.58
VCC20ULS230	230	0.60	75	1/30	5	5	11.44	80	70	45	0	17.0	7.4	\$160.18

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WATER PUMPS

AUTOMATIC CONDENSATE PUMP



VCMA

VCMA-15 SERIES

- 1/2 gallon collection tank
- Vertical centrifugal pump design
- Automatic start and stop operation
- 3/8" OD barbed discharge adapter with built-in check valve
- Three 1-1/8" diameter inlet openings (two fitted with removable cap plug)
- Thermally protected, fan cooled motor
- Removable pump float locking tab for safety during transportation (remove at time of installation)
- Maximum water temperature: 140°F
- 6 ft, 3-conductor cable with grounded 3-prong plug

Little **GIANT**

Part No.	Voltage	Amps	Watts	Tank Capacity (Gal.)	HP	Dimensions (In.)			GPH at				Shut-Off		Price
						H	W	L	1 ft	5 ft	10 ft	20 ft	Ft	Psi	
VCMA15ULS115	115	1	60	1	1/50	7.03	5	11	65	50	25	0	15.0	6.5	\$98.44
VCMA20ULS	115	1.5	93	1	1/30	7.03	5	10.3	80	70	48	0	20.0	8.7	\$115.46



VCMX

VCMX SERIES

- External test/run lever
 - Slim footprint
 - Vertical centrifugal pump design
 - Automatic start and stop operation
 - Galvanized steel "quick install" wall mount bracket
 - Rubber feet for vibration/noise dampening
 - "Anti-sweat" tank sleeve included on select models and available separately for all others
 - (3) 1-1/8" diameter inlet openings, two fitted with removable cap plug (3 + 1 inlet openings for models without safety overflow switch)
 - Recessed tank sump
 - Oil resistant tank and check valve
 - Thermally protected, fan cooled motor
 - Maximum water temperature: 140°F
 - 6', 3-conductor cable with grounded 3-prong plug
- Equipped with external, float activated switch for automatic high level water detection (safety overflow switch)
- Models equipped with safety overflow switch include two 5" switch lead wires
- 3/8" OD barbed -turn quick release, locking discharge adapter with built-in check valve

Little **GIANT**

Part No.	Voltage	Amps	Watts	Dimensions (In.)			GPH at				Shut-Off		Price
				H	W	L	1 ft	5 ft	10 ft	20 ft	Ft	Psi	
VCMX20ULS115	115	1.5	93	6.5	4.8	10.2	84	75	60	10	21.0	9.1	\$119.40
VCMX20ULS230	230	0.6/0.5	75	6.5	4.8	10.2	78	67	51	0	19.0	9.1	\$128.26



CP-22

AUTOMATIC

Suitable for use with condensate from high efficiency condensing furnaces and boilers which produce acidic condensate. Features include vibration dampening feet and motor mounts, metal hang tabs, four inlet holes, a clear indicator

- Suitable for use with condensate up to 160°F.
- 22" of standard lift
- Dimension: 11.8"L x 5.9"W x 6.7"H
- 1/4" quick connect terminals
- Pan pill dispenser
- Indicator lights for power applied, pump running and high level alarm

display, a float switch and check valve, built in overflow switch. 3 terminals are provided allowing flexibility to connect air-handler shut-down and optional alarm as needed.

DIVERSITECH

Part No.	Voltage	Amps	Dimensions (In.)			Safety Switch	Check Valve	GPH at				Shut-Off (Ft)	Price
			H	W	L			1 ft	5 ft	10 ft	15 ft		
CP-22*	115	1.9	6.7	5.9	11.8	Yes	Included	120	115	87	59	22.0	\$103.90
CP-22-230*	208-230	1	6.7	5.9	11.8	Yes	Included	120	115	87	59	22.0	\$116.12

*WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov



IQP120

CLEARVUE™

With the Floatless Sensor™ technology, ClearVue™ eliminates the float switch - one of the most common problems with conventional condensate pumps. ClearVue™ uses patent pending water sensing technology to detect condensate so that there are no more

stuck floats. ClearVue™ also features a see-through tank to give the user a clear view of water blockage, and buildup in the tank.

- Maximum condensate temperatures:
Continuous duty: 140°F
Max. inlet temperature: 160°F
Not suitable for contact with steam or gasses that exceeds 160°F

iQ Technology™:

- Variable Lift: assures that the pump impeller is spinning only as fast as is needed to lift the
- condensate water to the height needed.
- Self Cleaning: By monitoring pumping conditions, ClearVue™ is able to detect when a drain line is partially or fully clogged. ClearVue™ increases the pressure in the drain line to attempt to clear the clog.
- Floatless Sensor™: DiversiTech's patent pending Floatless Sensor™ eliminates many of the mechanical problems associated with conventional condensate pumps.



Part No.	Voltage	Amps	Tank Capacity (Gal.)	Dimensions (In.)			Shut-Off Ft	Price
				H	W	L		
IQP120*	120	1.9	120 Vac	1.0	6.7	5.9	11.8	\$150.10



CB15-20

CB SERIES, AUTOMATIC

- All black flame retardant plastic
- Larger high impact ABS tank
- Stronger motor
- Can mount from either side
- New improved duck-bill check valve design
- Three intake holes
- Reliable micro switch float mechanism
- Heavy gauge steel motor mount
- Capable of handling mild acids
- Stainless steel shaft
- Thermal overload protection
- Tank capacity: 2 U.S. quarts
- 3/8" barbed outlet with check valve

- Dimension: 11 1/8" L x 5" W x 6 1/4" H



Part No.	Voltage	Amps	Watts	HP	Dimensions (In.)			Safety Switch	Check Valve	GPH at				Shut-Off Ft	Price
					H	W	L			1 ft	5 ft	10 ft	15 ft		
CB151LSUL	115	1.7	60	1/50	6 1/4	5	11 1/8	No	Included	85	70	39	—	15.0	\$76.68
CB151UL	115	1.7	60	1/50	6 1/4	5	11 1/8	Yes	Included	85	70	39	—	15.0	\$81.66
CB201LSUL	115	2.2	85	1/30	6 1/4	5	11 1/8	No	Included	105	95	75	36	20.0	\$80.70
CB201UL	115	2.2	85	1/30	6 1/4	5	11 1/8	Yes	Included	105	95	75	36	20.0	\$90.50
CB202UL	230	1.2	77	1/30	6 1/4	5	11 1/8	Yes	Included	105	95	75	36	20.0	\$94.16



CB22UL

CB SERIES, AUTOMATIC

- Molded plastic design for more efficient and quieter operation
- Conduit connection
- Flame retardant motor cover
- Built-in safety switch
- Replaceable check valve, 3/8" OD outlet
- One gallon tank capacity
- All units 6" Wide, 12" Long;
- CB22 series 9 1/4" High,
- CB25 series 10" High
- CB50 series 10 1/8" High
- HT models: High temperature tank rated at 190°F
- HTS models: High temperature tank rated at 212°F



Part No.	Voltage	Amps	Watts	HP	Dimensions (In.)			Safety Switch	Check Valve	GPH at					Shut-Off Ft	Price
					H	W	L			1 ft	5 ft	10 ft	15 ft	20 ft		
CB221UL	115	1.5	120	1/25	9.25	6	12	Yes	Included	108	90	67	45	—	22.0	\$130.00
CB251UL	115	1.3	150	1/20	10.125	6	12	Yes	Included	122	104	82	60	37	25.0	\$392.38
CB251ULHT	115	1.3	150	1/20	10.125	6	12	Yes	Included	122	104	82	60	37	25.0	\$329.32
CB252UL	230	0.90	150	1/20	10.125	6	12	Yes	Included	122	104	82	60	37	25.0	\$385.44
CB252ULHT	230	0.90	150	1/20	10.125	6	12	Yes	Included	122	104	82	60	37	25.0	\$349.40
CB501UL	115	4.0	360	1/5	10.125	6	12	Yes	Included	486	—	412	—	337	50.0	\$584.38
CB501ULHTS	115	4.0	360	1/5	10.125	6	12	Yes	Included	486	—	412	—	337	50.0	\$704.94
CB502UL	230	1.9	360	1/5	10.125	6	12	Yes	Included	486	—	412	—	337	50.0	\$621.34
CB502ULHTS	230	1.9	360	1/5	10.125	6	12	Yes	Included	486	—	412	—	337	50.0	\$739.30
CB504UL	460	0.80	360	1/5	10.125	6	12	Yes	Included	486	—	412	—	337	50.0	\$579.68
CB504ULHTS	460	0.80	360	1/5	10.125	6	12	Yes	Included	486	—	412	—	337	50.0	\$686.50

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WATER PUMPS

AUTOMATIC CONDENSATE PUMP



CL20

LOW PROFILE

This high efficiency furnace model is compact and has a low profile so that it can be used in applications where space is limited. This unit is capable of handling high acidity condensation. Tank capacity .85 U.S. quarts.



Part No.	Voltage	Amps	Watts	HP	Dimensions (In.)			Safety Switch	Check Valve	GPH at				Shut-Off Ft.	Price
					H	W	L			1 ft	5 ft	10 ft	15 ft		
CL201UL	115	1.95	90	1/30	4.75	5	11.125	Yes	Included	115	92	62	33	20.0	\$99.40
CL202UL	230	1.02	90	1/30	4.75	5	11.125	Yes	Included	115	92	62	33	20.0	\$113.18



G325A

SUBMERSIBLE PUMP

The Versa Series submersible pumps offer a top of the line epoxy encapsulated design to meet all your continuous duty requirements. They are environmentally safe, energy-efficient and can be used in a variety of industrial applications. Each pump features a

heavy duty sleeve bearing motor for maximum output and reliability. **Applications:**

- Continuous duty operation
- Low maintenance
- Underwater use only
- Environmentally safe
- Not oil-filled



Part No.	Voltage	Amps	Watts	HP	Dimensions (In.)			Max. Lift (Ft.)	GPH at		Price
					H	W	L		1 ft	10 ft	
G325A	115	0.80	50	1/40	3 3/4	4	5	12.2	340	135	\$108.46

TRANSFER PUMP



UPSP5

NON-SUBMERSIBLE, SELF-PRIMING TRANSFER PUMP, UPSP SERIES

Ideal for flooded basements, watering lawns and draining water heaters. Glycol transfer pump to fill/empty Glyco systems or chillers

- Non-submersible, in-line, portable utility transfer pump with rugged one-piece cast iron housing and integral carrying handle
- Self-priming to 15' when priming chamber is filled
- Can also be used to boost water pressure for washing vehicles, sidewalks and more
- Convenient 3/4" brass garden hose adapters on intake and discharge
- cCSAus listed



Part No.	Voltage	Amps	HP	GPH at					Shut-Off (Ft.)	Wgt (Lbs.)	Price
				20 ft	40 ft	60 ft	80 ft	100 ft			
UPSP5	115	9.0	1/2	1152	912	648	372	90	5.0	17.8	\$587.16



360115V

NON-SUBMERSIBLE, SELF-PRIMING TRANSFER PUMP, PONY PUMP SERIES

This lightweight 115 volt AC pump can be used to empty water beds, drain water heaters or aquariums, transfer water to an RV, and other applications where water needs to be transferred.

- Self-priming for instant delivery or de-watering up to 6'
- Rugged metallic handle for easy portability
- Dual threaded intake and discharge with both 3/4" male garden hose thread and 3/8" FNPT



Part No.	Voltage	Amps	HP	GPH at					Shut-Off (Ft.)	Wgt (Lbs.)	Price
				1 ft	5 ft	10 ft	15 ft	20 ft			
360115V	115	1.6	1/10	360	342	300	285	270	48.3	3.5	\$278.26

PUMP ACCESSORIES



J100

SAFETY SWITCH

A water-level sensing device that is designed to shut down the air conditioning or refrigeration unit in the event of a high water level in the pan or reservoir.

The switch may be wired in a normally open or a normally closed position. The kit comes complete with 72" leads and installation instructions.



Part No.	Description	Price
J100*	Safety Switch	\$20.70



DT26

MINI-SPLIT CONDENSATE DRAIN HOSE

- UV Protected
- Poly Ethylene
- Anti-Microbial



Part No.	Description	Price
DT26	5/8" Drain Hose, Non-Insulated, 26' Roll, single use	\$15.18
DT164	5/8" Drain Hose, Non-Insulated, 164' Roll	\$95.66



83012

MINI-SPLIT CONDENSATE DRAIN HOSE

- Corrugated construction provides maximum flexibility, eliminates crimping; interior use only.
- Smooth Bore, resists clogging, reduces resistance and maximizes condensate flow, less flexible than standard hose.
- UV Resistant, resists deterioration from sunlight, suitable for exterior applications.



Part No.	Description	Price
83012	3/4" Drain Hose, Insulated, 65' Roll	\$436.96
DHJ16	5/8" Hose Coupler for DH-16	\$7.34

DRAIN PAN ACCESSORIES



AG-3150E

ELECTRONIC WATER SENSING SYSTEM

Mounted directly in the secondary drain port of the primary pan. It is a high-amperage, solid-state switch with no moving parts to break down or become clogged and the low profile

design makes it easy to install and does not interfere with drain lines coming from the HVAC unit.

- 5 amp high-capacity sensor designed for secondary drains.
- Eliminates false shut-offs caused by trapped condensation.
- 2 in 1 secondary drain + secondary pan sensor.
- Moisture detection LED alerts you to problems.



Part No.	Description	Price
AG-3150E	Electronic Water Sensing System for Secondary Drains	\$55.56

*WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

DRAIN PAN ACCESSORIES



1502UR

SAFETY CONTROL SWITCH

The switch may be wired directly to the system to turn off the air conditioner or furnace equipment, or it can be wired to sound an alarm if the water level becomes too high. Rated 125V, 5A, 1/10 HP. Wired normally closed.

- Single pole, double throw, single break snap action switches
- Prewired—leads 17" + 1/2"
- Safe for either AC or DC (low voltage) applications



Part No.	Description	Price
1502SS	Safety Control Switch	\$15.26



AG3180E

PLENUM RATED MICRO PAN SENSOR

The AquaGuard AG-3180E micro-electronic condensate sensor is mounted directly in the primary drain pan, which makes it the ideal solution for commercial package units. The bonus secondary sensor features water detection LED and easily

installs in the metal or plastic secondary drain pan.

Both sensors continuously monitor any condensate overflow in the primary and secondary drain pans and automatically shut off the system and activate an alarm if any overflow is detected in as little as 1/16 inch of water in either drain pan.

- Perfect Solution for Commercial or Self-Contained Package Units, Metal/Plastic Secondary Drain Pans & Primary Pan with Time Delay
- Meets International Building Codes & Primary Pan Code Requirements
- Time Delay: Up to 60 Seconds On
- 6 Feet of Both Plenum Rated Probe and Sensor Wire
- 5 Amp, 24 Volts AC Solid State Sensor with Patent Pending Smart Sensor Technology
- Switch Can Be Normally Open or Normally Closed
- Normally Open 4th Wire for Optional External Alarm, Digital Controller or Energy Management Systems
- Compact Waterproof Design



Part No.	Description	Price
AG3180E	Plenum Rated Micro Pan Sensor Plus Bonus Secondary Sensor	\$61.76



AG-1200+

DRAIN PAN FLOAT SWITCH

The AquaGuard is incredibly easy to install and can be mounted to the drain pan in just a few seconds. Installation does not require a hole in the pan. The AquaGuard switch incorporates a protective cover to keep out insulation and debris that could prevent the float from rising.

- AG+ come with 5 amp high-capacity sensor designed for metal pans

- Activates at 3 tbsps of water
 - Plastic switch is pest-resistant
 - High-sensitivity switch
 - 6 foot lead is rustproof and waterproof
 - Same switch is used to deploy air bags in U.S. automobiles
 - The AG4100 is designed for Goliath drain pans
- The AG-1200+ has all of the features of the 1100+ plus an innovative two-piece clamp design which allows it to be mounted to a metal drain pan (without a lip) or lower-end non-AquaGuard plastic drain pan (with a lip).

Part No.	Description	Price
AG4100-G18	Drain Pan Float Switch (for Goliath Drain Pans)	\$45.54
AG-1100+	Drain Pan Float Switch (for Metal Drain Pans)	\$27.40
AG-1200+	Drain Pan Float Switch (for Metal or Plastic Drain Pans)	\$31.26



CU7

CHECK VALVE



Part No.	Connection Size (In.)	Price
CU7	3/8 Copper x 3/8 Copper	\$21.46
CU8	1/4 MNPT x 3/8 Copper	\$27.60

HEAVY DUTY AUTOMATIC PUMP



SC1A

STEAM CONDENSATE RETURN

Designed expressly for automatically returning condensate to a collection point where radiation has been added to existing systems below the returns. Rated for 2,000 EDR; 480,000 BTU.

- Vapor sealed, 4 gallon cast aluminum reservoir
- 1/2 hp, 3,400 rpm motor
- Dimension: 12"L x 12"W x 18"H



Part No.	Reservoir Size (Gal.)	Max. Head (Ft.)	Max. Temp. (°F)	Connection Size (In.)		Voltage	Amps	Dimensions (In.)			Safety Switch	Ship Wgt (Lbs.)	Price
				Inlet	Outlet			H	W	L			
SC1A*	4	45	212	1 1/2	3/4	115	7.46	18	12	12	No	45	\$2,148.76



A2SA115V

GENERAL PURPOSE

Models A2/A4: For applications where heads of 20' to 40' and high flow rates are needed.

- 1 gallon heavy duty aluminum reservoir
- Snap action switch
- 3,000 rpm motor with s.s shaft and thermal overload protection

- 6' cord and plug
 - Dimension: 9"L x 6"W x 10"H
- Model AL2: For applications involving high surges of water. Particularly suited for ice making machines in handling the high volumes of water produced during flushing
- 2 gallon cast aluminum reservoir
 - Dimension: 12"L x 9"W x 10"H



Part No.	Reservoir Size (Gal.)	Max. Head (Ft.)	Max. Temp. (°F)	Connection Size (In.)		Voltage	Amps	Dimensions (In.)			Safety Switch	Ship Wgt (Lbs.)	Price
				Inlet	Outlet			H	W	L			
A2115V*	1	22	150	1 3/8	3/8	115	3.1	10	6.0	9.0	No	12	\$982.16
A2X115V*	1	22	150	1 3/8	3/8	115	3.1	10	6.0	9.0	Yes	12	\$1,098.42
A2SA115V*	1	22	212	1 3/8	3/8	115	3.1	10	6.0	9.0	No	12	\$688.94
AL2115V*	2	22	150	1 3/8	3/8	115	3.1	10	9.0	12.0	No	17	\$662.62
A2230V*	1	22	150	1 3/8	3/8	230	1.5	10	6.0	9.0	No	12	\$986.86
A2X230V*	1	22	150	1 3/8	3/8	230	1.5	10	6.0	9.0	Yes	12	\$1,112.48
A2SA230V*	1	22	212	1 3/8	3/8	230	1.5	10	6.0	9.0	No	12	\$1,063.72
AL2230V*	2	22	150	1 3/8	3/8	230	3.1	10	9.0	12.0	No	17	\$704.34
A2X1965*	1	22	150	1 3/8	3/8	115/230	3.1/1.5	10	6.0	9.0	Yes	14	\$575.38

SUBMERSIBLE PUMP



IPC13A

IN PAN CONDENSATE

The Beckett IPC13A is a totally submersible pump with a built-in, hermetically sealed, pressure activated switch. The pump operates automatically when the water level reaches approximately 1.2 inches and turns off at .75 inch. Because it is totally submersible, this pump may be used in virtually any application where automatic control and dependability are required. The compact size, along with high lift and quiet operation of the IPC13A are well suited to a wide range of consumer and O.E.M. requirements, including condensation removal.



Part No.	Voltage	Amps	Watts	HP	Dimensions (In.)			Safety Switch	Check Valve	GPH at			Shut-Off Ft	Price
					H	W	L			1 ft	5 ft	10 ft		
IPC13A	115	0.90	55	1/50	3 3/4	3 3/4	8	No	Included	80	70	45	12.0	\$179.84

*WARNING: This item may contain chemicals known to cause cancer and/or reproductive harm in the state of California. For more information go to www.P65Warnings.ca.gov

MISCELLANEOUS

DRAIN PAN



DP2748L

SECONDARY, PLASTIC

- Rolled edges for durability
- Ribbed bottoms for rigidity
- Reinforced corners for strength
- 3/4" PVC fittings attached to each pan
- No seams, no rust, no leakage
- Depth 2"; Overall dimension + 2"



- "S" suffix = Drain line outlets in short sid
- "L" suffix = Drain line outlets in long sid

Part No.	Width (In.)	Length (In.)	Price
DP1838S	20	40	\$43.54
DP2424L	26	26	\$42.04
DP2748L	29	50	\$54.74
DP2763L	29	65	\$68.44
DP3030L	32	32	\$40.52
DP3060L	32	62	\$72.46
DP3263L	34	65	\$73.76
DP3050L	32	52	\$68.84
DP3660L	38	62	\$95.84



SECONDARY, PLASTIC

- Includes drain fittin
- Rolled edges for durability
- Ribbed bottoms for rigidity
- Reinforced corners for strength
- 3/4" PVC fittings attached to each pan

- No seams—no rust—no leakage
- Depth 2"; Overall dimension + 2"

Part No.	Width (In.)	Length (In.)	Price
DP24X48	24	48	☎
DP27X48	27	48	☎
DP27X64	27	64	☎
DP30X60	30	60	☎



302-2424

SECONDARY, METAL

Galvanized auxiliary drain pans with adapter fittin

Part No.	Width (In.)	Length (In.)	Price
302-2424	24	24	☎
302-2448	24	48	☎
302-2626	26	26	☎
302-2748	27	48	☎
302-2763	27	63	☎
302-3030	30	30	☎
302-3060	30	60	☎
302-3162	31	62	☎
302-3636	36	36	☎



AGG30X60

SECONDARY, PLASTIC

- Reinforced walls with gussets to resist buckling and add support
- Rubber mounts to reduce vibration
- Built in structural support
- Extreme temperature resistance

RECTORSEAL

Part No.	Width (In.)	Length (In.)	Price
AGG27X64	27	64	\$232.86
AGG30X50	30	50	\$176.56
AGG30X60	30	60	\$205.50

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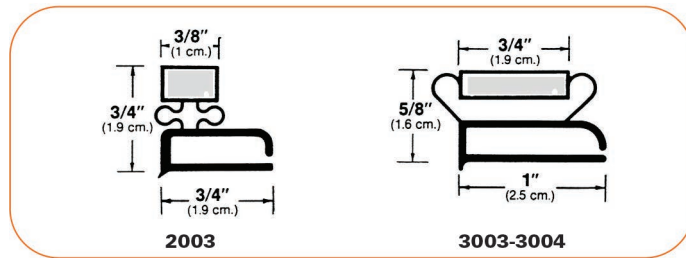
JOB LISTS

Find Out How

☎ Please contact your local United Refrigeration Branch or our Customer Service Center for pricing.

GASKETS

MAGNETIC, PREFORMED

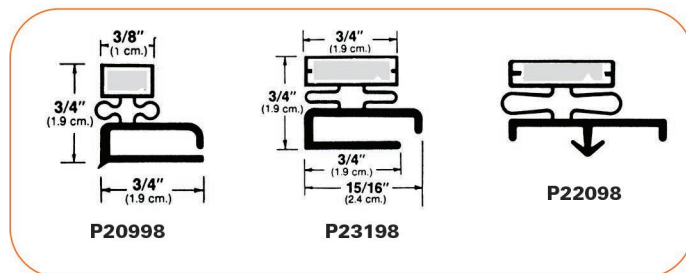


In choosing a replacement gasket, select one with the same general magnet width as the original. If the gasket is for a new application, the wide magnets are generally used on heavy duty applications, while the narrow magnets are generally used on lighter duty applications.



Part No.	Width (In.)	Max. Frame Size (In.)	Price
2003	3/8	32 x 56	\$54.16
3003	3/4	32 x 56	\$128.84
3004	3/4	37 x 87	\$202.50

MAGNETIC, LENGTH

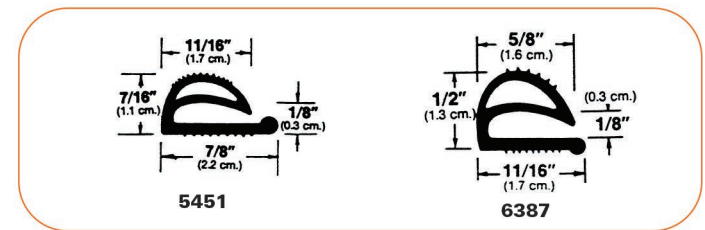


Shipped in 8' lengths.



Part No.	Width (In.)	Price
P20998	3/8	\$71.00
P22098	1/2	\$71.00
P23198	3/4	\$91.24

COMPRESSION



Widely used where an airtight seal is needed to keep warm and cold temperatures separate, as on domestic and commercial refrigerator doors, vending units, dispensers, reach-ins, food containers, etc. When determining the cushion height for your application, the gasket cushion should be compressed a minimum of 1/8" to a maximum of 3/16" to obtain the most efficient seal



Part No.	Cross Section (In.)		Roll Length (Ft.)	Price
	W	H		
5451	7/8	7/16	100	\$1.56
6387	11/16	1/2	100	\$2.12

V-LINE

Tough, flexible vinyl cover and flange, combined with the resilient of sponge rubber. Highly grease-resistant—resists oils, greases, fats, detergents, water, etc. Used on walk-in coolers, weather-exposed freezer doors, refrigerated truck bodies, and railroad cars.

- Roll length: 100'



Part No.	Cushion Diameter (In.)	Flange Width (In.)	Flange Type	Price
V1212	1/2	1/2	Regular	\$2.96
V1234	1/2	3/4	Offset	\$2.86
V5858	5/8	5/8	Regular	\$4.00

RECTANGULAR STRIP

- Rectangular extruded closed cell sealing strip.



Part No.	Thickness (In.)	Width (In.)	Price
3810	3/8	1	\$3.10