

LINESETS



Linesets – Copper



- Designed specifically for the HVAC market for quick, cost efficient field installation of split system air conditioners and heat pumps.
- Purged with dry nitrogen and capped to ensure a clean and non-oxidized tube prior to installation.
- Tested in accordance with ASTM E243

PART NO	LIQUID LINE OD (IN)	SUCTION LINE OD (IN)	LINESET LENGTH (FT)	LIQUID LINE INSULATION THICK (IN)	SUCTION LINE INSULATION THICK (IN)	TYPE	CASE QTY	CASE REQ
PD619058	1/4	3/8	30	None	1/2	ACR	8	Yes
PD619055	1/4	3/8	50	None	1/2	ACR	6	Yes
PD619060	1/4	1/2	30	None	1/2	ACR	9	Yes
PD619057	1/4	1/2	50	None	1/2	ACR	6	Yes
PD610007	3/8	5/8	30	None	3/8	ACR	11	Yes
PD619059	3/8	5/8	30	None	1/2	ACR	11	Yes
PD619056	3/8	5/8	50	None	1/2	ACR	7	Yes
612825	3/8	3/4	25	None	3/8	ACR	13	Yes
PD610008	3/8	3/4	30	None	3/8	ACR	11	Yes
612835	3/8	3/4	35	None	3/8	ACR	11	Yes
PD610012	3/8	3/4	35	None	3/4	ACR	11	Yes
PD610010	3/8	3/4	50	None	3/4	ACR	6	Yes
612850	3/8	3/4	50	None	3/8	ACR	7	Yes
614825	3/8	7/8	25	None	3/8	ACR	11	Yes
PD610009	3/8	7/8	30	None	3/8	ACR	11	Yes
614835	3/8	7/8	35	None	3/8	ACR	8	Yes
PD610013	3/8	7/8	35	None	3/4	ACR	11	Yes
614850	3/8	7/8	50	None	3/8	ACR	6	Yes
PD610011	3/8	7/8	50	None	3/4	ACR	6	Yes

REFRIGERANT LINE CONNECTORS



NoKink Flexible Mini-Split Refrigerant Line Connectors



- Ideal for connecting mini-split evaporator units
- Allows for easy installation of the refrigerant lines coming out of the wall to the evaporator
- Prevents refrigerant line from kinking
- Easier installation saving time and labor costs
- Includes 3" long copper ends for easy flaring

PART NO	DESCRIPTION
66731	NoKink Flexible Mini-Split Refrigerant Line Connector (1/4 in. x 3 ft.)
66733	NoKink Flexible Mini-Split Refrigerant Line Connector (3/8 in. x 3 ft.)

THERMAL EXPANSION VALVES (TXVS)



Sporlan Adjustable TXVs (RCVE Series – R-22)



- R-22 TXVs with adjustable superheat
- Similar to the fixed superheat valves used by many OEMs in residential HVAC applications

PART NO	VENDOR PART NO	CHECK VALVE	INLET SIZE (IN)	INLET FITTING TYPE	OUTLET SIZE (IN)	OUTLET FITTING TYPE	EXTERNAL EQUALIZER CONNECTION (IN)
611006	RCVE-2-GA 3X4X2 ODF 30	Yes	3/8	Sweat O.D.	1/2	Sweat O.D.	1/4 Sweat O.D.
611007	RCVE-3-GA 3X4X2 ODF 30	Yes	3/8	Sweat O.D.	1/2	Sweat O.D.	1/4 Sweat O.D.
611008	RCVE-4-GA 4X4X2 ODF 30	Yes	1/2	Sweat O.D.	1/2	Sweat O.D.	1/4 Sweat O.D.
611009	RCVE-5-GA 4X4X2 ODF 30	Yes	1/2	Sweat O.D.	1/2	Sweat O.D.	1/4 Sweat O.D.
611010	RCVE-6-GA 4X4X2 ODF 30	Yes	1/2	Sweat O.D.	1/2	Sweat O.D.	1/4 Sweat O.D.

THERMAL EXPANSION VALVES (TXVs)



Sporlan Adjustable TXVs (RCZE Series – R-410A)



- R-410A TXVs with adjustable superheat
- Similar to the fixed superheat valves used by many OEMs in residential HVAC applications

PART NO	VENDOR PART NO	CHECK VALVE	INLET SIZE (IN)	INLET FITTING TYPE	OUTLET SIZE (IN)	OUTLET FITTING TYPE
611011	RCZE-2-GA 3X4X2 ODF 30	Yes	3/8	Sweat O.D.	1/2	Sweat O.D.
611012	RCZE-3-GA 3X4X2 ODF 30	Yes	3/8	Sweat O.D.	1/2	Sweat O.D.
611013	RCZE-4-GA 4X4X2 ODF 30	Yes	1/2	Sweat O.D.	1/2	Sweat O.D.
611014	RCZE-5-GA 4X5X2 ODF 30	Yes	1/2	Sweat O.D.	5/8	Sweat O.D.
611015	RCZE-6-GA 4X5X2 ODF 30	Yes	1/2	Sweat O.D.	5/8	Sweat O.D.



Superheat Adjustment Kits for OEM TXVs

Allows OEM TXVs with factory set superheat to be field converted to adjustable superheat.

PART NO	DESCRIPTION
KA-4	Adjustable Base - Sporlan BBI Series TXVs
KA/BI	Adjustable Base - Sporlan BI Series TXVs
KA-Y1132	Adjustable Base - Sporlan CBI and CBBI Series TXVs
KT-20297	Adjustable Base - Emerson/Alco ANCE, ANE, and ANCEB Series TXVs



Replacement Power Heads for Sporlan TXVs



- For Sporlan TXVs with serviceable power heads, allows replacement of power head only in cases where only this component has failed
- Selection cross reference available on www.rheemparts.com or www.ruudparts.com for OEM TXVs

PART NO	DESCRIPTION
KT-43-NGA	Replacement Power Head - TXV (R-22)
KT-45-ZCP160	Replacement Power Head - TXV (R-410A)
KT-45-ZGA	Replacement Power Head - TXV (R-410A)
KT-45-ZN	Replacement Power Head - TXV (R-410A)
KT-53-VGA	Replacement Power Head - TXV (R-22)



TXV Bulb Mounting Kit

- Universal TXV bulb strap mounting kit; for use with all TXV bulbs
- Strap and mounting hardware are corrosion resistant

PART NO	DESCRIPTION
64-21106-02	TXV Bulb Strap Mounting Kit

REFRIGERANT SIGHT GLASSES



PROTECH Sight Glasses



PROTECH™ sight glasses provide a quick visual diagnosis of refrigerant and moisture levels within a system. It indicates if the system has the proper refrigerant level, a restricted drier or excessive pressure drop and provides early warning that a potential failure exists that could result in corrosion, chemical damage, restricted flow, or even compressor failure.

- Hermetic design minimizes possibility of

refrigerant leakage

- Premium patented 3% high accuracy moisture indicator (compare to 10% on most competitive models) with accurate color calibration at low ppm levels
- All brass corrosion resistant body and solid copper fittings
- Suitable for R-22 and R-410A, 680 psig maximum working pressure

PART NO	CONNECTION TYPE	CONNECTION SIZE (IN)	OVERALL LENGTH (IN)
83-25156-02	Sweat ODF	3/8	4-5/8
83-25156-04	Sweat ODF	1/2	4-7/8
83-25156-05	Sweat ODF	5/8	4-7/8
83-25156-03	Flare SAE (M/F)	3/8	3



REFRIGERANT SIGHT GLASSES



Sporlan See-All Sight Glasses

- Painted steel body with copper fittings
- Includes protective cap for viewing window
- Suitable for R-22 and R-410A, 650 psig maximum working pressure

PART NO	VENDOR PART NO	CONNECTION TYPE	CONNECTION SIZE (IN)	OVERALL LENGTH (IN)
83-25211-01	SA-12S	Sweat ODF	1/4	4-5/8
83-25211-02	SA-13S	Sweat ODF	3/8	4-5/8
83-25211-04	SA-14S	Sweat ODF	1/2	4-7/8
83-25211-05	SA-15S	Sweat ODF	5/8	4-7/8
83-25211-03	SA-13FM	Flare SAE (M/F)	3/8	3
SA-14FM	SA-14FM	Flare SAE (M/F)	1/2	3-7/16



Emerson HMI Series Hermetic Sight Glasses

- Hermetic design minimizes possibility of refrigerant leakage
- Premium patented 3% high accuracy moisture indicator (compare to 10% on most competitive models) with accurate color calibration at low ppm levels
- All brass corrosion resistant body and solid copper fittings
- Suitable for R-22 and R-410A, 680 psig maximum working pressure



PART NO	CONNECTION TYPE	CONNECTION SIZE (IN)	OVERALL LENGTH (IN)
83-HMI-1TT2	Sweat ODF	1/4	5-9/16
83-HMI-1TT3	Sweat ODF	3/8	5-5/8
83-HMI-1TT4	Sweat ODF	1/2	5-7/8
83-HMI-1TT5	Sweat ODF	5/8	5-7/8
83-HMI-1TT6	Sweat ODF	3/4	6-9/16
83-HMI-1TT7	Sweat ODF	7/8	6-5/16
83-HMI-1TT9	Sweat ODF	1-1/8	6-19/32
83-HMI-1MM3	Flare SAE (M/M)	3/8	3-3/8
83-HMI-1MM4	Flare SAE (M/M)	1/2	3-5/8
83-HMI-1MM5	Flare SAE (M/M)	5/8	3-7/8
83-HMI-1MM6	Flare SAE (M/M)	3/4	5
83-HMI-1FM2	Flare SAE (M/F)	1/4	2-3/4
83-HMI-1MU2	Flare SAE (M/F)	1/4	3-29/32
83-HMI-1MU3	Flare SAE (M/F)	3/8	4-3/8
83-HMI-1FM3	Flare SAE (M/F)	3/8	3
83-HMI-1FM4	Flare SAE (M/F)	1/2	3-7/32

EMERSON AMI SERIES REPAIRABLE SIGHT GLASSES

- Allows disassembly to replace the moisture indicator and lens (Repair kit #83-X12978-1)
- Premium patented 3% high accuracy moisture indicator (compare to 10% on most competitive models) with accurate color calibration at low ppm levels
- All brass corrosion resistant body and solid copper fittings
- Suitable for R-22 and R-410A, 680 psig maximum working pressure



Emerson AMI Series Repairable Sight Glasses



PART NO	CONNECTION TYPE	CONNECTION SIZE (IN)	OVERALL LENGTH (IN)
83-AMI-1TT2	Sweat ODF	1/4	4-57/64
83-AMI-1SS2	Sweat ODF	1/4	2-1/4
83-AMI-1TT3	Sweat ODF	3/8	4-57/64
83-AMI-1SS3	Sweat ODF	3/8	2-1/4
83-AMI-1SS4	Sweat ODF	1/2	2-5/8
83-AMI-1TT4	Sweat ODF	1/2	4-59/64
83-AMI-1TT5	Sweat ODF	5/8	4-29/32
83-AMI-1SS5	Sweat ODF	5/8	2-5/8
83-AMI-1TT7	Sweat ODF	7/8	6-23/64

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REFRIGERANT SIGHT GLASSES



Emerson AMI Series Repairable Sight Glasses – CONTINUED



PART NO	CONNECTION TYPE	CONNECTION SIZE (IN)	OVERALL LENGTH (IN)
83-AMI-1SS7	Sweat ODF	7/8	3-1/8
83-AMI-1TT9	Sweat ODF	1-1/8	6-19/64
83-AMI-1SS9	Sweat ODF	1-1/8	3-3/8
83-AMI-1TT11	Sweat ODF	1-3/8	6-15/16
83-AMI-1MM3	Flare SAE (M/M)	3/8	3-3/8
83-AMI-1MM4	Flare SAE (M/M)	1/2	3-5/8
83-AMI-1MM5	Flare SAE (M/M)	5/8	3-7/8
83-AMI-1FM2	Flare SAE (M/F)	1/4	2-3/4
83-AMI-1FM3	Flare SAE (M/F)	3/8	3
83-AMI-1FM4	Flare SAE (M/F)	1/2	3-7/32



Emerson AMI Series Repairable Sight Glasses – Bushing Type

PART NO	CONNECTION TYPE	CONNECTION SIZE (IN)	OVERALL LENGTH (IN)
83-AMI-2S11	Sweat ODM	1-3/8	1-9/16
83-AMI-2S13	Sweat ODM	1-5/8	1-11/16
83-AMI-2S17	Sweat ODM	2-1/8	1-15/16

FILTER DRIERS

LIQUID LINE FILTER DRIERS

The purpose of a liquid line filter-drier is to capture and contain harmful contaminants in order to prevent damage to system components and prolong equipment life. Harmful contaminants removed by filter-driers include moisture, acid, wax and particulate matter.

General information regarding desiccant blends:

- Activated alumina: removes acid
- Activated carbon: removes wax, sludge and varnish
- Molecular sieve: removes moisture



PROTECH Liquid Line Filter Driers (Uni-Directional)



- Solid core, activated alumina with molecular sieve
- Corrosion resistant epoxy powder paint finish
- Solid copper fittings
- Suitable for R-22 and R-410A, 650 psig maximum working pressure

PART NO	INDUSTRY CODE	CONNECT SIZE (IN)	CONNECT TYPE	OVERALL LENGTH (IN)	BODY LENGTH (IN)	BODY DIAMETER (IN)	CAPACITY (CUBIC IN)	R-22 AHRI FLOW CAP @1 PSI DROP (TONS)	R-410A AHRI FLOW CAP @1 PSI DROP (TONS)
83-25151-40	053S	3/8	Sweat ODF	4-1/2	3	2-5/8	5	5.9	5.9
83-25151-41	083S	3/8	Sweat ODF	5-5/16	3-7/8	2-5/8	8	6.3	6.3
83-25151-42	163S	3/8	Sweat ODF	6-1/8	4-5/8	2-5/8	16	6.2	6.3
83-25151-43	164S	1/2	Sweat ODF	6-1/2	4-5/8	2-5/8	16	8.2	8.2



PROTECH Liquid Line Filter Driers (Bi-Directional)



- Solid core, activated alumina with molecular sieve
- Includes internal check valve for heat pump applications
- Removes moisture, scale, acid, dirt and all types of foreign particulate material
- Corrosion resistant epoxy powder paint finish
- Solid copper fittings
- Suitable for R-22 and R-410A, 650 psig maximum working pressure

PART NO	INDUSTRY CODE	CONNECT SIZE (IN)	CONNECT TYPE	OVERALL LENGTH (IN)	BODY LENGTH (IN)	BODY DIAMETER (IN)	CAPACITY (CUBIC IN)	R-22 AHRI FLOW CAP @1 PSI DROP (TONS)	R-410A AHRI FLOW CAP @1 PSI DROP (TONS)
83-25152-09	083S	3/8	Sweat ODF	5-5/16	3-7/8	2-5/8	8	3.9	3.9
83-25152-10	163S	3/8	Sweat ODF	6-1/8	4-5/8	3-1/8	16	6.6	6.6

FILTER DRIERS



Danfoss DCL Series Liquid Line Filter Driers (Uni-Directional)



- Solid core, 20% activated alumina with 80% molecular sieve
- Corrosion resistant epoxy powder paint finish
- Solid copper fittings
- Suitable for R-22 and R-410A, 650 psig maximum working pressure

PART NO	INDUSTRY CODE	CONNECT SIZE (IN)	CONNECT TYPE	OVERALL LENGTH (IN)	BODY LENGTH (IN)	BODY DIAMETER (IN)	CAPACITY (CUBIC IN)	R-22 FLOW CAP @1 PSI DROP (TONS)	R-410A FLOW CAP @1 PSI DROP (TONS)
023Z5019	3/8	Sweat ODF	4-7/16	3	2-1/4	5	—	—	
023Z5023	3/8	Sweat ODF	5-1/2	4	2-1/8	8	4.56	4.65	
023Z5029	3/8	Sweat ODF	5-7/8	4-5/16	3	16	4.95	4.67	



Danfoss DCB Series Liquid Line Filter Driers (Bi-Directional)



- Solid core, 20% activated alumina with 80% molecular sieve
- Corrosion resistant epoxy powder paint finish
- Includes internal check valve for heat pump applications
- Solid copper fittings
- Suitable for R-22 and R-410A, 650 psig maximum working pressure

PART NO	INDUSTRY CODE	CONNECT SIZE (IN)	CONNECT TYPE	OVERALL LENGTH (IN)	BODY LENGTH (IN)	BODY DIAMETER (IN)	CAPACITY (CUBIC IN)	R-22 FLOW CAP @1 PSI DROP (TONS)	R-410A FLOW CAP @1 PSI DROP (TONS)
023Z1433	—	3/8	Sweat ODF	5-5/8	4-1/8	2-5/16	8	3.70	3.62
023Z1437	—	3/8	Sweat ODF	5-15/16	4-3/8	3-1/8	16	4.77	4.71



Sporlan Catch-All Liquid Line Filter Driers (Uni-Directional)



- Solid core, activated alumina with molecular sieve
- Corrosion resistant epoxy powder paint finish
- Suitable for R-22 and R-410A, 650 psig maximum working pressure

PART NO	VENDOR PART NO	CONNECT SIZE (IN)	CONNECT TYPE	OVERALL LENGTH (IN)	BODY LENGTH (IN)	BODY DIAMETER (IN)	CAPACITY (CUBIC IN)	R-22 AHRI FLOW CAP @1 PSI DROP (TONS)	R-410A AHRI FLOW CAP @1 PSI DROP (TONS)
83-25208-01	C-052-S	1/4	Sweat ODF	4-3/16	3-7/16	2-7/16	5	2.1	2.0
83-25208-02	C-053-S	3/8	Sweat ODF	4-5/16	3-7/16	2-7/16	5	4.7	4.5
83-25208-09	C-0825S	5/16	Sweat ODF	5-5/16	4-7/16	2-5/8	8	3.7	3.5
83-25208-03	C-083-S	3/8	Sweat ODF	5-1/4	4	2-5/8	8	5.2	5.0
83-25208-04	C-163-S	3/8	Sweat ODF	5-7/8	5	3	16	5.2	5.0
83-25208-05	C-164-S	1/2	Sweat ODF	6	5	3	16	11.0	10.7
83-25208-06	C-165-S	5/8	Sweat ODF	6-5/16	5-1/16	3	16	15.9	15.5
83-25208-07	C-305-S	5/8	Sweat ODF	9-1/4	8-1/16	3	30	16.9	16.4
C-164	C-164	1/2	Flare SAE (M/M)	6-15/16	4-5/8	3	16	10.1	9.8



Sporlan Catch-All Liquid Line Filter Driers (Bi-Directional)



- Solid core, activated alumina with molecular sieve
- Short overall length for easy removal
- Includes internal check valve for heat pump applications
- Corrosion resistant epoxy powder paint finish
- Suitable for R-22 and R-410A, 650 psig maximum working pressure

PART NO	VENDOR PART NO	CONNECT SIZE (IN)	CONNECT TYPE	OVERALL LENGTH (IN)	BODY LENGTH (IN)	BODY DIAMETER (IN)	CAPACITY (CUBIC IN)	R-22 AHRI FLOW CAP @1 PSI DROP (TONS)	R-410A AHRI FLOW CAP @1 PSI DROP (TONS)
83-41714-03	HPC-083-S	3/8	Sweat ODF	5-1/2	4-1/8	3	8	3.7	3.6
83-41714-04	HPC-104-S	1/2	Sweat ODF	5-5/16	4	3	10	8.9	8.7
83-41714-02	HPC-163-S	3/8	Sweat ODF	6-15/16	5-5/8	3	16	5.5	5.4
83-41714-07	HPC-164-S	1/2	Sweat ODF	7-1/16	5-1/2	3	16	8.9	8.7

FILTER DRIERS



Emerson ADK Series Liquid Line Filter Driers (Uni-Directional)



- Solid core, activated alumina with molecular sieve
- Corrosion resistant epoxy powder paint finish
- Suitable for R-22 and R-410A, 650 psig maximum working pressure

PART NO	CONNECT SIZE (IN)	CONNECT TYPE	OVERALL LENGTH (IN)	BODY LENGTH (IN)	BODY DIAMETER (IN)	CAPACITY (CUBIC IN)	R-22 AHRI FLOW CAP @1 PSI DROP (TONS)	R-410A AHRI FLOW CAP @1 PSI DROP (TONS)
83-ADK-032S	1/4	Sweat ODF	3-7/8	2-9/16	1-3/4	3	2.5	2.5
83-ADK-033S	3/8	Sweat ODF	4-1/16	2-9/16	1-3/4	3	3.3	3.3
83-ADK-052S	1/4	Sweat ODF	4-7/16	3	2-5/8	5	3.1	3.1
83-ADK-053S	3/8	Sweat ODF	4-1/2	3	2-5/8	5	4.9	4.9
83-ADK-082S	1/4	Sweat ODF	5	3-13/16	2-5/8	8	3.4	3.4
83-ADK-083S	3/8	Sweat ODF	5-3/8	3-13/16	2-5/8	8	4.6	4.6
83-ADK-084S	1/2	Sweat ODF	5-3/8	3-13/16	2-5/8	8	7.6	7.6
83-ADK-163S	3/8	Sweat ODF	6-1/8	4-5/8	2-5/8	16	5.3	5.3
83-ADK-164S	1/2	Sweat ODF	6-3/16	4-5/8	2-5/8	16	9.3	9.3
83-ADK-165S	5/8	Sweat ODF	6-3/8	4-5/8	2-5/8	16	14.2	14.2
83-ADK-303S	3/8	Sweat ODF	9	7-1/2	3-1/16	30	5.8	5.8
83-ADK-304S	1/2	Sweat ODF	9-1/8	7-1/2	3-1/16	30	9.5	9.5
83-ADK-305S	5/8	Sweat ODF	9-5/16	7-1/2	3-1/16	30	15.7	15.7
83-ADK-307S	7/8	Sweat ODF	9-7/8	7-1/2	3-1/16	30	18.9	18.9
83-ADK-309S	1-1/8	Sweat ODF	10-3/16	7-1/2	3-1/16	30	27.0	27.0
83-ADK-414S	1/2	Sweat ODF	9-1/4	7-5/8	3-11/16	41	11.6	11.6
83-ADK-417S	7/8	Sweat ODF	10	7-5/8	3-11/16	41	22.0	22.0
83-ADK-419S	1-1/8	Sweat ODF	10-5/16	7-5/8	3-11/16	41	27.3	27.3
83-ADK-757S	7/8	Sweat ODF	15-7/16	13-1/16	3-11/16	75	37.1	37.1
83-ADK-759S	1-1/8	Sweat ODF	15-3/4	13-1/16	3-11/16	75	40.4	40.4
83-ADK-032	1/4	Flare SAE (M/M)	4-3/8	2-9/16	1-3/4	3	2.1	2.1
83-ADK-033	3/8	Flare SAE (M/M)	4-11/16	2-9/16	1-3/4	3	2.9	2.9
83-ADK-052	1/4	Flare SAE (M/M)	4-13/16	3	2-5/8	5	2.2	2.2
83-ADK-053	3/8	Flare SAE (M/M)	5-1/8	3	2-5/8	5	4.0	4.0
83-ADK-082	1/4	Flare SAE (M/M)	5-5/8	3-13/16	2-5/8	8	2.2	2.2
83-ADK-083	3/8	Flare SAE (M/M)	5-15/16	3-13/16	2-5/8	8	4.7	4.7
83-ADK-084	1/2	Flare SAE (M/M)	6-3/16	3-13/16	2-5/8	8	7.3	7.3
83-ADK-162	1/4	Flare SAE (M/M)	6-7/16	4-5/8	2-5/8	16	2.2	2.2
83-ADK-163	3/8	Flare SAE (M/M)	6-3/4	4-5/8	2-5/8	16	4.8	4.8
83-ADK-164	1/2	Flare SAE (M/M)	6-15/16	4-5/8	2-5/8	16	9.0	9.0
83-ADK-165	5/8	Flare SAE (M/M)	7-7/16	4-5/8	2-5/8	16	12.8	12.8
83-ADK-303	3/8	Flare SAE (M/M)	9-5/8	7-1/2	3-1/16	30	5.1	5.1
83-ADK-304	1/2	Flare SAE (M/M)	9-7/8	7-1/2	3-1/16	30	9.3	9.3
83-ADK-305	5/8	Flare SAE (M/M)	10-5/16	7-1/2	3-1/16	30	15.0	15.0
83-ADK-413	3/8	Flare SAE (M/M)	9-3/4	7-5/8	3-11/16	41	5.1	5.1
83-ADK-415	5/8	Flare SAE (M/M)	10-7/16	7-5/8	3-11/16	41	16.9	16.9



Emerson EK Series Liquid Line Filter Driers (Uni-Directional)



- Beaded core, activated alumina with molecular sieve
- Corrosion resistant epoxy powder paint finish
- Suitable for R-22 and R-410A, 680 psig maximum working pressure

PART NO	CONNECT SIZE (IN)	CONNECT TYPE	OVERALL LENGTH (IN)	BODY LENGTH (IN)	BODY DIAMETER (IN)	CAPACITY (CUBIC IN)	R-22 AHRI FLOW CAP @1 PSI DROP (TONS)	R-410A AHRI FLOW CAP @1 PSI DROP (TONS)
83-EK-032S	1/4	Sweat ODF	3-7/8	2-9/16	1-5/8	3	2.9	2.9
83-EK-033S	3/8	Sweat ODF	4-1/16	2-9/16	1-5/8	3	3.3	3.3
83-EK-052S	1/4	Sweat ODF	4-7/16	3	2-5/8	5	3.6	3.6
83-EK-0525S	5/16	Sweat ODF	4-7/32	3	2-1/2	5	3.6	3.6

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FILTER DRIERS



Emerson EK Series Liquid Line Filter Driers (Uni-Directional) – CONTINUED



PART NO	CONNECT SIZE (IN)	CONNECT TYPE	OVERALL LENGTH (IN)	BODY LENGTH (IN)	BODY DIAMETER (IN)	CAPACITY (CUBIC IN)	R-22 AHRI FLOW CAP @1 PSI DROP (TONS)	R-410A AHRI FLOW CAP @1 PSI DROP (TONS)
83-EK-053S	3/8	Sweat ODF	4-1/2	3	2-5/8	5	4.8	4.8
83-EK-082S	1/4	Sweat ODF	5-1/4	3-13/16	2-5/8	8	3.4	3.4
83-EK-0825S	5/16	Sweat ODF	5-3/8	3-13/16	2-5/8	8	3.8	3.8
83-EK-083S	3/8	Sweat ODF	5-5/16	3-13/16	2-5/8	8	4.9	4.9
83-EK-084S	1/2	Sweat ODF	5-3/8	3-13/16	2-5/8	8	7.7	7.7
83-EK-162S	1/4	Sweat ODF	6-3/16	4-3/4	2-5/8	16	3.4	3.4
83-EK-1625S	5/16	Sweat ODF	5-15/16	4-3/4	2-5/8	16	3.4	3.4
83-EK-163S	3/8	Sweat ODF	6-1/4	4-3/4	2-5/8	16	4.8	4.8
83-EK-164S	1/2	Sweat ODF	6-5-16	4-3/4	2-5/8	16	9.2	9.2
83-EK-165S	5/8	Sweat ODF	6-9/16	4-3/4	2-5/8	16	10.9	10.9
83-EK-167S	7/8	Sweat ODF	7-1/2	4-3/4	2-5/8	16	16.8	16.8
83-EK-303S	3/8	Sweat ODF	9	7-1/2	3-1/16	30	6.8	6.8
83-EK-304S	1/2	Sweat ODF	9-1/8	7-1/2	3-1/16	30	10.8	10.8
83-EK-305S	5/8	Sweat ODF	9-5/16	7-1/2	3-1/16	30	16.0	16.0
83-EK-306S	3/4	Sweat ODF	9-11/16	7-1/2	3-1/16	30	16.0	16.0
83-EK-307S	7/8	Sweat ODF	9-7/8	7-1/2	3-1/16	30	18.2	18.2
83-EK-309S	1-1/8	Sweat ODF	10-1/4	7-1/2	3-1/16	30	21.2	21.2
83-EK-414S	1/2	Sweat ODF	9-1/4	7-5/8	3-11/16	41	11.7	11.7
83-EK-415S	5/8	Sweat ODF	9-7/16	7-5/8	3-11/16	41	11.4	11.4
83-EK-417S	7/8	Sweat ODF	10	7-5/8	3-11/16	41	22.0	22.0
83-EK-419S	1-1/8	Sweat ODF	10-5/16	7-5/8	3-11/16	41	30.0	30.0
83-EK-757S	7/8	Sweat ODF	15-7/16	13-1/16	3-11/16	75	24.1	24.1
83-EK-759S	1-1/8	Sweat ODF	15-3/4	13-1/16	3-11/16	75	35.4	35.4
83-EK-032	1/4	Flare SAE (M/M)	4-3/8	2-9/16	1-5/8	3	2.2	2.2
83-EK-033	3/8	Flare SAE (M/M)	4-11/16	2-9/16	1-5/8	3	3.3	3.3
83-EK-052	1/4	Flare SAE (M/M)	4-13/16	3	2-5/8	5	2.3	2.3
83-EK-053	3/8	Flare SAE (M/M)	5-1/8	3	2-5/8	5	3.8	3.8
83-EK-082	1/4	Flare SAE (M/M)	5-5/8	3-13/16	2-5/8	8	2.5	2.5
83-EK-083	3/8	Flare SAE (M/M)	5-15/16	3-13/16	2-5/8	8	4.3	4.3
83-EK-084	1/2	Flare SAE (M/M)	6-3/16	3-13/16	2-5/8	8	7.3	7.3
83-EK-162	1/4	Flare SAE (M/M)	6-9/16	4-3/4	2-5/8	16	2.5	2.5
83-EK-163	3/8	Flare SAE (M/M)	6-7/8	4-3/4	2-5/8	16	4.2	4.2
83-EK-164	1/2	Flare SAE (M/M)	7-1/16	4-3/4	2-5/8	16	8.0	8.0
83-EK-165	5/8	Flare SAE (M/M)	7-1/2	4-3/4	2-5/8	16	10.5	10.5
83-EK-303	3/8	Flare SAE (M/M)	9-5/8	7-1/2	3-1/16	30	4.7	4.7
83-EK-304	1/2	Flare SAE (M/M)	9-7/8	7-1/2	3-1/16	30	8.8	8.8
83-EK-305	5/8	Flare SAE (M/M)	10-5/16	7-1/2	3-1/16	30	11.5	11.5
83-EK-306	3/4	Flare SAE (M/M)	10-5/8	7-7/16	3	30	11.5	11.5
83-EK-413	3/8	Flare SAE (M/M)	9-3/4	7-5/8	3-11/16	41	4.7	4.7
83-EK-414	1/2	Flare SAE (M/M)	10	7-5/8	3-11/16	41	11.3	11.3
83-EK-415	5/8	Flare SAE (M/M)	10-7/16	7-5/8	3-11/16	41	13.0	13.0
83-EK-032MF	1/4	Flare SAE (M/F)	3-1/2	2-9/16	1-5/8	3	2.2	2.2
83-EK-052MF	1/4	Flare SAE (M/F)	4-1/2	3	2-5/8	5	2.3	2.3
83-EK-082MF	1/4	Flare SAE (M/F)	5-5/32	3-13/16	2-1/2	8	2.5	2.5
83-EK-083MF	3/8	Flare SAE (M/F)	5-15/16	3-13/16	2-5/8	8	4.3	4.3
83-EK-162MF	1/4	Flare SAE (M/F)	6-1/8	4-1/8	2-1/2	16	2.5	2.5
83-EK-032FM	1/4	Flare SAE (F/M)	3-1/2	2-9/16	1-5/8	3	2.2	2.2
83-EK-082FM	1/4	Flare SAE (F/M)	5-5/32	3-13/16	2-1/2	8	2.5	2.5
83-EK-162FM	1/4	Flare SAE (F/M)	6-1/8	4-1/8	2-1/2	16	2.5	2.5

FILTER DRIERS



Emerson BOK Series Burn-Out Liquid Line Filter Driers (Uni-Directional)



- Solid core, desiccant includes activated carbon blend, for soluble contaminant and wax removal, in addition to activated alumina with molecular sieve
- For burnout clean-up and wax removal
- Corrosion resistant epoxy powder paint finish
- Suitable for R-22 and R-410A, 680 psig maximum working pressure

PART NO	CONNECT SIZE (IN)	CONNECT TYPE	OVERALL LENGTH (IN)	BODY LENGTH (IN)	BODY DIAMETER (IN)	CAPACITY (CUBIC IN)	R-22 AHRI FLOW CAP @1 PSI DROP (TONS)	R-410A AHRI FLOW CAP @1 PSI DROP (TONS)
83-BOK-163S	3/8	Sweat ODF	6-1/8	4-5/8	2-7/8	16	6.3	6.3
83-BOK-164S	1/2	Sweat ODF	6-3/16	4-5/8	2-7/8	16	11.1	11.1
83-BOK-165S	5/8	Sweat ODF	6-3/8	7-1/2	3-1/16	16	13.9	13.9
83-BOK-304S	1/2	Sweat ODF	9-1/8	7-1/2	3-1/16	30	11.7	11.7
83-BOK-305S	5/8	Sweat ODF	9-5/16	7-1/2	3-1/16	30	15.8	15.8
83-BOK-417S	7/8	Sweat ODF	10-7/16	7-5/8	3-11/16	41	21.5	21.5
83-BOK-082	1/4	Flare SAE (M/M)	5-5/8	3-15/16	2-15/16	8	1.6	1.6
83-BOK-083	3/8	Flare SAE (M/M)	5-15/16	3-15/16	2-15/16	8	4.2	4.2
83-BOK-162	1/4	Flare SAE (M/M)	6-7/16	3-15/16	2-15/16	16	1.6	1.6
83-BOK-163	3/8	Flare SAE (M/M)	6-3/4	3-15/16	2-15/16	16	4.7	4.7
83-BOK-164	1/2	Flare SAE (M/M)	6-15/16	4-5/8	2-7/8	16	9.3	9.3
83-BOK-165	5/8	Flare SAE (M/M)	7-7/16	4-5/8	2-7/8	16	13.9	13.9
83-BOK-303	3/8	Flare SAE (M/M)	9-5/8	7-1/2	3-1/16	30	4.7	4.7
83-BOK-304	1/2	Flare SAE (M/M)	9-7/8	7-1/2	3-1/16	30	10.7	10.7
83-BOK-305	5/8	Flare SAE (M/M)	10-5/16	7-1/2	3-1/16	30	14.6	14.6
83-BOK-414	1/2	Flare SAE (M/M)	10	7-1/2	3-1/16	41	11.1	11.1
83-BOK-415	5/8	Flare SAE (M/M)	9-1/4	7-5/8	3-11/16	41	11.7	11.7



Emerson BFK Series Liquid Line Filter Driers (Bi-Directional)



- Solid core, activated alumina with molecular sieve
- Includes internal check valve for heat pump applications
- Corrosion resistant epoxy powder paint finish
- Suitable for R-22 and R-410A, 680 psig maximum working pressure

PART NO	CONNECT SIZE (IN)	CONNECT TYPE	OVERALL LENGTH (IN)	BODY LENGTH (IN)	BODY DIAMETER (IN)	CAPACITY (CUBIC IN)	R-22 AHRI FLOW CAP @1 PSI DROP (TONS)	R-410A AHRI FLOW CAP @1 PSI DROP (TONS)
83-BFK-052S	1/4	Sweat ODF	4-7/16	3	2-5/8	5	2.2	2.2
83-BFK-053S	3/8	Sweat ODF	4-1/2	3	2-5/8	5	4.0	4.0
83-BFK-083S	3/8	Sweat ODF	5-5/16	3-13/16	2-5/8	8	5.1	5.1
83-BFK-084S	1/2	Sweat ODF	5-3/8	3-13/16	2-5/8	8	6.7	6.7
83-BFK-085S	5/8	Sweat ODF	5-5/8	3-13/16	2-5/8	8	8.1	8.1
83-BFK-163S	3/8	Sweat ODF	6-1/16	4-5/8	2-5/8	16	5.2	5.2
83-BFK-164S	1/2	Sweat ODF	6-3/16	4-5/8	3-1/8	16	8.1	8.1
83-BFK-165S	5/8	Sweat ODF	6-3/8	4-5/8	3-1/8	16	8.7	8.7
83-BFK-167S	7/8	Sweat ODF	7	7-1/2	3-1/8	16	—	—
83-BFK-303S	3/8	Sweat ODF	9	7-1/2	3-1/8	30	5.8	5.8
83-BFK-304S	1/2	Sweat ODF	9	7-1/2	3-1/8	30	9.7	9.7
83-BFK-305S	5/8	Sweat ODF	9-5/16	7-1/2	3-1/8	30	14.2	14.2
83-BFK-306S	3/4	Sweat ODF	9-3/4	7-1/2	3-1/8	30	16.0	16.0
83-BFK-307S	7/8	Sweat ODF	9-15/16	7-1/2	3-1/8	30	16.7	16.7
83-BFK-309S	1-1/8	Sweat ODF	10-1/4	7-1/2	3-1/8	30	—	—
83-BFK-052	1/4	Flare SAE (M/M)	4-13/16	3	2-5/8	5	1.6	1.6
83-BFK-053	3/8	Flare SAE (M/M)	5-1/8	3	2-5/8	5	3.5	3.5
83-BFK-083	3/8	Flare SAE (M/M)	5-15/16	3-13/16	2-5/8	8	4.5	4.5
83-BFK-084	1/2	Flare SAE (M/M)	6-3/16	3-13/16	2-5/8	8	6.4	6.4

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FILTER DRIERS



Emerson BFK Series Liquid Line Filter Driers (Bi-Directional) – CONTINUED



PART NO	CONNECT SIZE (IN)	CONNECT TYPE	OVERALL LENGTH (IN)	BODY LENGTH (IN)	BODY DIAMETER (IN)	CAPACITY (CUBIC IN)	R-22 AHRI FLOW CAP @1 PSI DROP (TONS)	R-410A AHRI FLOW CAP @1 PSI DROP (TONS)
83-BFK-085	5/8	Flare SAE (M/M)	6-5/8	3-13/16	2-5/8	8	7.1	7.1
83-BFK-163	3/8	Flare SAE (M/M)	6-3/4	4-5/8	2-5/8	16	4.6	4.6
83-BFK-164	1/2	Flare SAE (M/M)	7	4-5/8	2-5/8	16	7.7	7.7
83-BFK-165	5/8	Flare SAE (M/M)	7-7/16	4-5/8	3-1/8	16	8.3	8.3
83-BFK-303	3/8	Flare SAE (M/M)	9-5/8	7-1/2	3-1/8	30	5.08	5.08
83-BFK-304	1/2	Flare SAE (M/M)	9-13/16	7-1/2	3-1/8	30	7.6	7.6
83-BFK-305	5/8	Flare SAE (M/M)	10-5/16	7-1/2	3-1/8	30	10.3	10.3
83-BFK-306	3/4	Flare SAE (M/M)	10-5/8	7-1/2	3-1/8	30	13.3	13.3

SUCTION LINE FILTER DRIERS

The purpose of the suction line filter-drier is to capture and contain harmful contaminants in order to prevent damage to system components and prolong equipment life. The types of harmful contaminants removed by filter-driers are moisture, acid, wax and particulate matter.

General information regarding desiccant blends:

- Activated alumina: removes acid
- Activated carbon: removes wax, sludge and varnish
- Molecular sieve: removes moisture



PROTECH Suction Line Filter Driers (Standard Shell)



- Solid core
- Premium product with activated alumina/activated carbon/molecular sieve desiccant
- Suitable for R-22 and R-410A, 650 psig maximum working pressure
- For use after a burnout or when major system work has been performed
- Two pressure taps; one each at the inlet and outlet ends
- Corrosion resistant epoxy powder paint finish
- Solid copper fittings

PART NO	INDUSTRY CODE	CONNECT SIZE (IN)	CONNECT TYPE	OVERALL LENGTH (IN)	BODY LENGTH (IN)	BODY DIAMETER (IN)	CAPACITY (CUBIC IN)	R-22 AHRI FLOW CAP @1 PSI DROP (TONS)	R-410A AHRI FLOW CAP @1 PSI DROP (TONS)
83-25153-07	166S	3/4	Sweat ODF	6-15/16	4-3/4	2-1/2	16	4.2	2.9
83-25153-08	167S	7/8	Sweat ODF	7-1/8	4-3/4	2-1/2	16	4.6	3.1
83-25153-10	306S	3/4	Sweat ODF	9-5/8	7-7/16	3	30	5.5	3.8
83-25153-11	307S	7/8	Sweat ODF	9-13/16	7-7/16	3	30	6.1	4.2



Danfoss DAS Series Suction Line Filter Driers (Standard Shell)



- Solid core; solid copper fittings
- 70% activated alumina and 30% molecular sieve
- Suitable for R-22 and R-410A, 500 psig maximum working pressure
- For use after a compressor motor burnout or when major system work has been performed
- Two pressure taps; one each at the inlet and outlet ends
- Corrosion resistant powder-painted finish

PART NO	VENDOR PART NO	CONNECT SIZE (IN)	CONNECT TYPE	OVERALL LENGTH (IN)	BODY LENGTH (IN)	BODY DIAMETER (IN)	CAPACITY (CUBIC IN)	R-22 FLOW CAP @ 40°F & 3 PSI DROP (TONS)	R-410A FLOW CAP @ 40°F & 3 PSI DROP (TONS)
023Z1010	023Z1010	5/8	Sweat ODF	6-3/16	4-5/16	3	16	4.3	4.3
023Z1011	023Z1011	3/4	Sweat ODF	6-11/16	4-5/16	3	16	5.7	5.7
023Z1012	023Z1012	7/8	Sweat ODF	6-13/16	4-5/16	3	16	6.3	6.3
023Z1013	023Z1013	5/8	Sweat ODF	9-3/16	7-5/16	3	30	5.1	5.1
023Z1014	023Z1014	3/4	Sweat ODF	9-11/16	7-5/16	3	30	6.3	6.3
023Z1015	023Z1015	7/8	Sweat ODF	9-13/16	7-5/16	3	30	7.4	7.4
023Z1016	023Z1016	1-1/8	Sweat ODF	9-13/16	7-5/16	3	30	8.9	8.9

FILTER DRIERS



Sporlan Catch-All Suction Line Filter Driers (Standard Shell)



- Solid core
- Premium product with activated alumina/activated carbon/molecular sieve desiccant
- Suitable for R-22 and R-410A, 650 psig maximum working pressure
- For use after a burnout or when major system work has been performed
- One pressure tap at the inlet end
- Corrosion resistant epoxy powder paint finish
- Solid copper fittings

PART NO	VENDOR PART NO	CONNECT SIZE (IN)	CONNECT TYPE	OVERALL LENGTH (IN)	BODY LENGTH (IN)	BODY DIAMETER (IN)	CAPACITY (CUBIC IN)	R-22 AHRI FLOW CAP @1 PSI DROP (TONS)	R-410A AHRI FLOW CAP @1 PSI DROP (TONS)
83-25209-01	C-165-S-T-HH	5/8	Sweat ODF	6-5/16	4-9/16	3	16	3.3	4.2
83-25209-02	401030-013	3/4	Sweat ODF	6-3/4	5	3	16	4.1	5.2
83-25209-03	C-167-S-T-HH	7/8	Sweat ODF	6-5/16	4-9/16	3	16	4.6	5.9
83-25209-04	C-306-S-T-HH	3/4	Sweat ODF	9-5/8	7-7/8	3	30	4.5	5.8
83-25209-05	C-307-S-T-HH	7/8	Sweat ODF	9-3/4	8	3	30	5.4	7.0
83-25209-06	C-309-S-T-HH	1-1/8	Sweat ODF	9-3/4	8	3	30	6.0	7.7



Sporlan Catch-All Suction Line Filter Driers (Compact Shell)



- Solid core
- Premium product with activated alumina/activated carbon/molecular sieve desiccant
- Suitable for R-22 and R-410A, 650 psig maximum working pressure
- For use after a burnout or when major system work has been performed
- One pressure tap at the inlet end
- Corrosion resistant epoxy powder paint finish
- Solid copper fittings

PART NO	VENDOR PART NO	CONNECT SIZE (IN)	CONNECT TYPE	OVERALL LENGTH (IN)	BODY LENGTH (IN)	BODY DIAMETER (IN)	CAPACITY (CUBIC IN)	R-22 AHRI FLOW CAP @1 PSI DROP (TONS)	R-410A AHRI FLOW CAP @1 PSI DROP (TONS)
83-25210-01	C-145-S-TT-HH	5/8	Sweat ODF	4-3/8	2-5/8	4-7/16	14	3.6	4.6
83-25210-02	C-146-S-TT-HH	3/4	Sweat ODF	4-7/8	3-1/8	4-7/16	14	4.9	6.2
83-25210-03	C-147-S-TT-HH	7/8	Sweat ODF	5	3-1/4	4-7/16	14	5.4	6.8



Emerson ASD Series Suction Line Filter Driers (Standard Shell)



- Beaded core
- Activated alumina with molecular sieve desiccant
- Suitable for R-22 and R-410A, 500 psig maximum working pressure
- Corrosion resistant epoxy powder paint finish
- Two pressure taps; one each at the inlet and outlet ends
- Solid copper fittings

PART NO	CONNECT SIZE (IN)	CONNECT TYPE	OVERALL LENGTH (IN)	BODY LENGTH (IN)	BODY DIAMETER (IN)	CAPACITY (CUBIC IN)	R-22 AHRI FLOW CAP @1 PSI DROP (TONS)	R-410A AHRI FLOW CAP @1 PSI DROP (TONS)
83-ASD-28S3W	3/8	Sweat ODF	5-9/16	4-1/8	3-11/16	28	2.3	1.6
83-ASD-28S4W	1/2	Sweat ODF	5-11/16	4-1/8	3-11/16	28	3.8	2.6
83-ASD-35S5W	5/8	Sweat ODF	6-1/4	4-3/4	3-11/16	35	5.8	4.0
83-ASD-45S6W	3/4	Sweat ODF	7-3/4	5-9/16	3-11/16	45	7.0	4.8
83-ASD-45S7W	7/8	Sweat ODF	7-15/16	5-9/16	3-11/16	45	9.2	6.3
83-ASD-50S9W	1-1/8	Sweat ODF	8-7/8	6-1/8	3-11/16	50	13.2	9.0
83-ASD-75S11W	1-3/8	Sweat ODF	12-1/4	8-1/4	3-11/16	75	16.2	11.0
83-ASD-75S13W	1-5/8	Sweat ODF	12-3/16	8-1/4	3-11/16	75	17.3	12.0
83-ASD-28F3	3/8	Flare SAE (M/M)	5-9/16	4-1/8	3-11/16	28	—	—
83-ASD-35F5W	5/8	Flare SAE (M/M)	7-9/16	4-3/4	3-11/16	35	4.4	3.0

FILTER DRIERS



Emerson ASF Series Suction Line Filters (Standard Shell)

- Filter only; no desiccant. Primary use is for solid contaminant filtering.
- Suitable for R-22 and R-410A, 500 psig maximum working pressure
- Corrosion resistant epoxy powder paint finish
- Two pressure taps; one each at the inlet and outlet ends
- Solid copper fittings



PART NO	CONNECT SIZE (IN)	CONNECT TYPE	OVERALL LENGTH (IN)	BODY LENGTH (IN)	BODY DIAMETER (IN)	CAPACITY (CUBIC IN)	R-22 AHRI FLOW CAP @1 PSI DROP (TONS)	R-410A AHRI FLOW CAP @1 PSI DROP (TONS)
83-ASF-11S4	1/2	Sweat ODF	4-3/8	2-7/8	2-5/8	11	2.6	1.8
83-ASF-11S5	5/8	Sweat ODF	4-5/8	2-7/8	2-5/8	11	4.2	2.9
83-ASF-28S3W	3/8	Sweat ODF	5-9/16	4-1/8	2-5/8	28	2.4	1.6
83-ASF-28S4W	1/2	Sweat ODF	5-11/16	4-1/8	2-5/8	28	4.1	2.8
83-ASF-28S7W	7/8	Sweat ODF	6-1/2	4-1/8	2-5/8	28	—	—
83-ASF-28S9W	1-1/8	Sweat ODF	7-7/16	4-1/8	2-5/8	28	—	—
83-ASF-35S5W	5/8	Sweat ODF	6-1/2	4-3/4	3-11/16	35	6.6	4.5
83-ASF-45S6W	3/4	Sweat ODF	7-3/4	5-9/16	3-11/16	45	9.8	6.7
83-ASF-45S7W	7/8	Sweat ODF	7-15/16	5-9/16	3-11/16	45	12.0	8.2
83-ASF-50S9W	1-1/8	Sweat ODF	8-7/8	6-1/8	5	50	19.0	13.0
83-ASF-64S17V	2-1/8	Sweat ODF	11-3/4	7-5/8	5	64	41.0	28.0
83-ASF-64S21V	2-5/8	Sweat ODF	13	7-7/8	5	64	46.0	31.0
83-ASF-75S11W	1-3/8	Sweat ODF	12-1/4	8-1/4	5	75	24.0	16.0
83-ASF-75S13W	1-5/8	Sweat ODF	12-3/16	8-1/4	5	75	15.0	10.0
83-ASF-35F5V	5/8	Flare SAE (M/M)	7-1/2	4-3/4	3-1/2	35	4.7	3.2
83-ASF-45F3V	3/8	Flare SAE (M/M)	7-3/4	5-9/16	3-11/16	45	—	—



Emerson ASK Series Suction Line Filter Driers (Standard Shell)

- Solid core
- Suitable for R-22 and R-410A, 500 psig maximum working pressure
- Premium product with activated alumina/activated carbon/molecular sieve desiccant
- For use after a burnout or when major system work has been performed
- Two pressure taps; one each at the inlet and outlet ends
- Corrosion resistant epoxy powder paint finish
- Solid copper fittings



PART NO	CONNECT SIZE (IN)	CONNECT TYPE	OVERALL LENGTH (IN)	BODY LENGTH (IN)	BODY DIAMETER (IN)	CAPACITY (CUBIC IN)	R-22 AHRI FLOW CAP @1 PSI DROP (TONS)	R-410A AHRI FLOW CAP @1 PSI DROP (TONS)
83-ASK-165SW	5/8	Sweat ODF	6-3/8	4-5/8	3-1/8	16	3.4	2.3
83-ASK-166SW	3/4	Sweat ODF	6-3/4	4-5/8	3-1/8	16	4.2	2.9
83-ASK-167SW	7/8	Sweat ODF	6-15/16	4-5/8	3-1/8	16	4.6	3.1
83-ASK-306SW	3/4	Sweat ODF	9-11/16	7-1/2	3-1/8	30	5.5	3.8
83-ASK-307SW	7/8	Sweat ODF	9-7/8	7-1/2	3-1/8	30	6.1	4.2
83-ASK-309SW	1-1/8	Sweat ODF	10-3/16	7-1/2	3-1/8	30	6.5	4.4

FILTER DRIERS



Emerson SFD Series Suction Line Filter Driers (Standard Shell)



- Beaded core
- Activated alumina with molecular sieve desiccant
- Suitable for R-22 and R-410A, 500 psig maximum working pressure
- Two pressure taps; one each at the inlet and outlet ends
- Corrosion resistant epoxy powder paint finish
- Solid copper fittings

PART NO	CONNECT SIZE (IN)	CONNECT TYPE	OVERALL LENGTH (IN)	BODY LENGTH (IN)	BODY DIAMETER (IN)	CAPACITY (CUBIC IN)	R-22 AHRI FLOW CAP @1 PSI DROP (TONS)	R-410A AHRI FLOW CAP @1 PSI DROP (TONS)
83-SFD-08S3W	3/8	Sweat ODF	5-5/16	3-1/8	3-11/16	8	—	—
83-SFD-08S5W	5/8	Sweat ODF	3-15/16	3-1/8	3-11/16	8	—	—
83-SFD-08S6W	3/4	Sweat ODF	4-5/16	3-1/8	3-11/16	8	—	—
83-SFD-13S3W	3/8	Sweat ODF	4	3-11/16	3-11/16	13	2.2	1.5
83-SFD-13S4W	1/2	Sweat ODF	4-15/16	3-11/16	3-11/16	13	3.5	2.4
83-SFD-13S5W	5/8	Sweat ODF	3-15/16	3-11/16	3-11/16	13	4.9	3.3
83-SFD-13S6W	3/4	Sweat ODF	4	3-11/16	3-11/16	13	6.4	4.4
83-SFD-13S7W	7/8	Sweat ODF	4-1/4	3-11/16	3-11/16	13	7.2	4.9
83-SFD-27S6W	3/4	Sweat ODF	5-3/4	3-11/16	3-11/16	27	6.4	4.4
83-SFD-27S7W	7/8	Sweat ODF	6	3-11/16	3-11/16	27	7.5	5.1
83-SFD-27S9W	1-1/8	Sweat ODF	5-13/16	3-11/16	3-11/16	27	8.5	5.8
83-SFD-54S11W	1-3/8	Sweat ODF	10-5/16	3-11/16	3-11/16	54	7.3	5.0
83-SFD-54S13W	1-5/8	Sweat ODF	9-15/16	3-11/16	3-11/16	54	7.4	5.1
83-SFD-08F4W	1/2	Flare SAE (M/M)	5-5/16	3-1/8	3-11/16	8	—	—
83-SFD-13F3W	3/8	Flare SAE (M/M)	4-5/16	3-11/16	3-11/16	13	1.4	1.0
83-SFD-13F4W	1/2	Flare SAE (M/M)	3-15/16	3-11/16	3-11/16	13	2.4	1.6
83-SFD-13F5W	5/8	Flare SAE (M/M)	6-1/8	3-11/16	3-11/16	13	1.4	1.0



Emerson CSFD Series Suction Line Filter Driers (Compact Shell)



- Solid core
- Activated alumina with molecular sieve desiccant
- Suitable for R-22 and R-410A, 400 psig maximum working pressure
- Compact design for short lay-in applications
- Two pressure taps; one each at the inlet and outlet ends
- Corrosion resistant epoxy powder paint finish
- Solid copper fittings

PART NO	CONNECT SIZE (IN)	CONNECT TYPE	OVERALL LENGTH (IN)	BODY LENGTH (IN)	BODY DIAMETER (IN)	CAPACITY (CUBIC IN)	R-22 AHRI FLOW CAP @1 PSI DROP (TONS)	R-410A AHRI FLOW CAP @1 PSI DROP (TONS)
83-CSFD-14S4W	1/2	Sweat ODF	4-1/4	2-3/4	4-5/8	14	2.0	1.4
83-CSFD-14S5W	5/8	Sweat ODF	4-1/2	2-3/4	4-5/8	14	3.6	2.5
83-CSFD-14S6W	3/4	Sweat ODF	4-3/8	2-3/4	4-5/8	14	4.9	3.3
83-CSFD-14S7W	7/8	Sweat ODF	4-9/16	2-3/4	4-5/8	14	5.2	3.6
83-CSFD-14S9W	1-1/8	Sweat ODF	4-7/8	2-3/4	4-5/8	14	7.0	4.8

LIQUID LINE FILTER DRIERS WITH SIGHT GLASS

Sporlan See-All Catch-All Liquid Line Filter Driers with Sight Glass



- Combines the system protection capability of “Catch-All” Filter Driers and monitoring effectiveness of “See All” Sight Glasses into a single easy to install assembly
- Replaces two field-brazed joints
- Reduces installation time and cost
- Minimizes the potential for refrigerant leaks

PART NO	VENDOR PART NO	CONNECT SIZE (IN)	CONNECT TYPE	OVERALL LENGTH (IN)	BODY LENGTH (IN)	BODY DIAMETER (IN)	CAPACITY (CUBIC IN)	R-22 AHRI FLOW CAP @1 PSI DROP (TONS)	R-410A AHRI FLOW CAP @1 PSI DROP (TONS)
CSG-083-S	CSG-083-S	3/8	Sweat ODF	7-3/4	4	2-5/8	8	5.2	5
CSG-163-S	CSG-163-S	3/8	Sweat ODF	9-5/8	5-7/8	2-5/8	16	5.2	5

MUFFLERS

- Mufflers are used to mitigate noise, compressor pulsation, and vibration through refrigerant piping
- Suggested mounting position is vertical for efficient oil movement
- Available options include shell type (steel or spun copper), check valve, and holes for sensor mounting



Mufflers – Steel Shell

PART NO	CONNECT SIZE (IN)	CONNECT TYPE	OVERALL LENGTH (IN)	SYSTEM CUTOUT LENGTH (IN)	BODY DIAMETER (IN)	REFRIG TYPE	MAX WORKING PRESSURE (PSIG)
83-40288-08	1-1/8	Sweat ODF	9-3/4	7-7/8	3	HCFC - R-22,HFC - R-410A	650
83-21817-81	3/8 and 1/2	Sweat ODF	6	5	3	HCFC - R-22,HFC - R-410A	680



Mufflers – Steel Shell (Suction Line)

PART NO	CONNECT SIZE (IN)	CONNECT TYPE	OVERALL LENGTH (IN)	SYSTEM CUTOUT LENGTH (IN)	BODY DIAMETER (IN)	REFRIG TYPE	MAX WORKING PRESSURE (PSIG)
83-25017-02	1-1/8	Sweat ODF	6-1/8	4-3/16	3	HCFC - R-22	250
83-25017-03	1-3/8	Sweat ODF	6-1/8	4-1/8	3	HCFC - R-22	250
83-25017-01	1-1/8 x 1-3/8	Sweat ODF	6-1/8	4-1/16	3	HCFC - R-22	250



Mufflers – Spun Copper Shell w/Sensor Mounting Hole

PART NO	CONNECT SIZE (IN)	CONNECT TYPE	OVERALL LENGTH (IN)	SYSTEM CUTOUT LENGTH (IN)	BODY DIAMETER (IN)	SENSOR MOUNTING HOLE DIA (IN)	REFRIG TYPE	MAX WORKING PRES (PSIG)
83-101471-05	3/8	Sweat ODF	4-3/4	4-1/4	1-5/8	1/4	HCFC - R-22,HFC - R-410A	500
83-101471-04	1/2	Sweat ODF	4-3/4	4-1/4	1-5/8	1/4	HCFC - R-22,HFC - R-410A	500
83-101472-04	1/2	Sweat ODF	4-3/4	3-3/4	1-5/8	1/8	HCFC - R-22,HFC - R-410A	500



Mufflers – Spun Copper Shell w/Check Valve

PART NO	CONNECT SIZE (IN)	CONNECT TYPE	OVERALL LENGTH (IN)	SYSTEM CUTOUT LENGTH (IN)	BODY DIAMETER (IN)	REFRIG TYPE	MAX WORKING PRESSURE (PSIG)
83-101828-01	1/2	Sweat ODF	7-7/8	7-5/8	1-5/8	HCFC - R-22,HFC - R-410A	500

ACCUMULATORS



- U-tube design allows for maximum flow of refrigerant with minimum pressure drop and oil entrapment
- Inlet flow deflector guides refrigerant toward accumulator wall for smooth flow and gradual expansion
- Accumulators should normally be sized to be capable of holding 50% of the refrigerant charge in TXV systems, and 70% in fixed orifice systems. Proper sizing ensures optimum liquid refrigerant and oil flow back to the compressor
- Powder paint coating exceeds ASTM 500 hour salt spray tests

- Solid copper connections
- Protective screen and orifice assembly protects against foreign particles and contaminants from affecting metering function
- Integral 430°F fuse plug is included as a safety feature for releasing internal system pressure in the event the accumulator is exposed to excessively high temperatures.
- Suitable for R-22 and R-410A, 355 psig design pressure



PART NO	SOLDER FITTING SIZE (IN)	BODY LENGTH (IN)	BODY OD (IN)	R-22 HOLDING CAPACITY @ 40°F (OZ)	R-410A HOLDING CAPACITY @ 40°F (OZ)
VA-31-5S	5/8	9-3/8	3	40	36
VA-31-4S	1/2	9-3/8	3	40	36
VA-35-5S	5/8	13-3/4	3	56	51
VA-35-6S	3/4	13-3/4	3	56	51
PA4065-9-5C	5/8	9-5/8	4	60	53
VPA-589-6SRD	3/4	9-5/8	5	94	86
VPA-589-7SRD	7/8	8-1/8	5	96	87
VPA-5811-6SRD	3/4	10	5	112	102
VPA-5811-7SRD	7/8	11-5/16	5	112	102
VPA-5812-7SRD	7/8	11-3/8	5	128	116
VPA-5815-7SRD	7/8	13-13/16	5	158	144
VPA-5817-7SRD	7/8	15-3/4	5	181	164
VPA-610-9SRD	1-1/8	12-5/8	6	192	175
VA-611-9SRD	1-1/8	13-3/4	6	199	181
VA-611-11SRD	1-3/8	13-3/4	6	208	189
VA-615-11SRD	1-1/8	18	6	288	262



Accumulator Kits w/Fittings

The same accumulators as shown above, but include various copper fittings which may be needed by the installing technician.

PART NO	ACCUMULATOR USED IN THIS KIT
83-22272-93	VPA-589-6SRD
83-22272-94	VPA-5811-7SRD
83-22272-95	VPA-5812-7SRD
83-22459-91	VPA-5817-7SRD
83-22537-73	VA-35-5S

REVERSING VALVES



Reversing Valves w/Coil

PART NO	NOM CAPACITY R-22 AND R-410A (TONS)	R-22 CAPACITY RANGE (TONS)	R-410A CAPACITY RANGE (TONS)	SUCTION LINE CONNECT SIZE ID (IN)	DISCHARGE LINE CONNECT SIZE ID (IN)	COIL INCLUDED
61-101684-01	1	1.0 to 2.5	1.3 to 2.5	5/8	3/8	Yes - 24V
61-102498-04	2	1.0 to 1.9	1.2 to 2.3	5/8	1/2	Yes - 24V
61-102498-09	4	2.0 min	2.35 min	3/4	1/2	Yes - 24V
61-101684-07	5	4.5 to 8.5	5.7 to 10.1	7/8	1/2	Yes - 24V
61-102498-02	6	2.7 to 5.5	3.3 to 6.6	3/4	1/2	Yes - 24V
61-102498-06	6	2.7 to 5.5	3.3 to 6.6	7/8	1/2	Yes - 24V
61-102498-03	10	4.9 to 9.7	5.9 to 11.7	7/8	1/2	Yes - 24V
61-102498-08	10	4.9 to 9.7	5.9 to 11.7	1-1/8	7/8	Yes - 24V

REVERSING VALVES



Solenoid Coil – Universal 24V OEM Kit

Kit includes three designs of 24V solenoid reversing valves, one for each manufacturer of reversing valves used on Rheem, Ruud, and WeatherKing equipment since 2005.

PART NO	DESCRIPTION
61-101713-92	Kit - Reversing Valve Coils (24V)

SOLENOID VALVES

SOLENOID VALVES (R-22) – EMERSON 100RB, 200RB AND 240RA SERIES

100RB, 200RB, 240RA Solenoid Valve Selection Process:

Always use a valve rated at the lowest end of the capacity range closest to the rated tonnage of the unit into which it will be installed. For example, if the unit is rated 5 ton, use a 61-200RB3 series valve, which is rated at 4.8 ton.

- Can be used in liquid and suction line applications
- Specifications:
 - Refrigerant: R-22 (Not suitable for R-410A)
 - Maxi fluid temperature: 250°F
 - Maxi working pressure: 500 psig
 - Maxi operating pressure differential: 300 psig
- Coils for Solenoid Valves sold separately



Solenoid Valves – Emerson 100RB Series (R-22)

- Direct-acting, 2-way, normally closed
- Uni-directional only; cannot be converted to bi-flow operation



PART NO	CONNECTION SIZE (IN)	CONNECTION TYPE	VALVE BODY OPTION	OVERALL LENGTH (IN)	CAPACITY R-22 (TONS)
61-100RB2S2VLC	1/4	Sweat ODF	Plain	4-5/8	1.3
61-100RB2S3VLC	3/8	Sweat ODF	Plain	4-5/8	1.3
61-100RB2S4VLC	1/2	Sweat ODF	Plain	4-5/8	1.3
61-100RB2F2VLC	1/4	Flare SAE	Plain	3-1/8	1.3
61-100RB2F3VLC	3/8	Flare SAE	Plain	3-1/2	1.3



Solenoid Valves – Emerson 200RB Series (R-22)

- Pilot-operated, 2-way, normally closed
- Can be converted to bi-flow operation using kit 61-KS-30293 (Note: 61-200RB7xxxVLC & 61-200RB9xxxVLC cannot be converted to bi-flow operation)
- Available with optional features as follows:
 - Manual stem for stopping product flow (61-200RBxxxMVLV)
 - Mounting stud (61-200RBxxxTVLC)



PART NO	CONNECTION SIZE (IN)	CONNECTION TYPE	VALVE BODY OPTION	OVERALL LENGTH (IN)	CAPACITY R-22 (TONS)
61-200RB4T3MVLV	3/8	Sweat ODF w/Extended Ends	Manual Stem	4-5/8	5.6
61-200RB4T3TVLC	3/8	Sweat ODF w/Extended Ends	Mounting Stud	4-5/8	5.6
61-200RB2T3VLC	3/8	Sweat ODF w/Extended Ends	Plain	4-5/8	3.1
61-200RB3T3VLC	3/8	Sweat ODF w/Extended Ends	Plain	4-5/8	4.8
61-200RB5T4MVLV	1/2	Sweat ODF w/Extended Ends	Manual Stem	5	8.2
61-200RB5T4TVLC	1/2	Sweat ODF w/Extended Ends	Mounting Stud	5	8.2
61-200RB6T4TVLC	1/2	Sweat ODF w/Extended Ends	Mounting Stud	5	10.0
61-200RB4T4TVLC	1/2	Sweat ODF w/Extended Ends	Mounting Stud	5	5.6
61-200RB3T4VLC	1/2	Sweat ODF w/Extended Ends	Plain	4-5/8	4.8
61-200RB4T4VLC	1/2	Sweat ODF w/Extended Ends	Plain	5	5.6
61-200RB5T5MVLV	5/8	Sweat ODF w/Extended Ends	Manual Stem	6-1/2	8.2
61-200RB6T5TVLC	5/8	Sweat ODF w/Extended Ends	Mounting Stud	6-1/2	10.0
61-200RB7T5TVLC	5/8	Sweat ODF w/Extended Ends	Mounting Stud	6-7/8	15.6
61-200RB5T5TVLC	5/8	Sweat ODF w/Extended Ends	Mounting Stud	6-1/2	8.2
61-200RB5S4TVLC	1/2	Sweat ODF	Mounting Stud	2-3/8	8.2
61-200RB5S5MVLV	5/8	Sweat ODF	Manual Stem	2-3/8	8.2
61-200RB6S5TVLC	5/8	Sweat ODF	Mounting Stud	2-3/8	10.0

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SOLENOID VALVES

Solenoid Valves – Emerson 200RB Series (R-22) – CONTINUED



PART NO	CONNECTION SIZE (IN)	CONNECTION TYPE	VALVE BODY OPTION	OVERALL LENGTH (IN)	CAPACITY R-22 (TONS)
61-200RB3F3TVLC	3/8	Flare SAE	Mounting Stud	3-1/8	4.8
61-200RB4F3TVLC	3/8	Flare SAE	Mounting Stud	3-1/8	5.6
61-200RB3F3VLC	3/8	Flare SAE	Plain	3-1/8	4.8
61-200RB5F4M VLC	1/2	Flare SAE	Manual Stem	3-1/2	8.2

Solenoid Valves – Emerson 240RA Series (R-22)



- Pilot-operated, 2-way, normally closed diaphragm valve
- Uni-directional only. Cannot be converted to bi-flow operation
- Reinforced PTFE diaphragm with woven fiberglass for high temperature applications

- Available with optional features as follows:
 - Manual stem for stopping product flow (61-240RAxxxM VLC)
 - Mounting stud (61-240RAxxxTVLC)

PART NO	CONNECTION SIZE (IN)	CONNECTION TYPE	VALVE BODY OPTION	OVERALL LENGTH (IN)	CAPACITY R-22 (TONS)
61-240RA9T5M VLC	5/8	Sweat ODF w/Extended Ends	Manual Stem	6-7/8	23.3
61-240RA8T5M VLC	5/8	Sweat ODF w/Extended Ends	Manual Stem	6-7/8	15.6
61-240RA8T5TVLC	5/8	Sweat ODF w/Extended Ends	Mounting Stud	6-7/8	15.6
61-240RA9T7M VLC	7/8	Sweat ODF w/Extended Ends	Manual Stem	7-1/8	30.5
61-240RA8T7M VLC	7/8	Sweat ODF w/Extended Ends	Manual Stem	7-1/8	15.6
61-240RA9T7TVLC	7/8	Sweat ODF w/Extended Ends	Mounting Stud	7-1/8	30.5
61-240RA9T9M VLC	1-1/8	Sweat ODF w/Extended Ends	Manual Stem	8-1/2	30.5
61-240RA16T11M VLC	1-3/8	Sweat ODF w/Extended Ends	Manual Stem	11	58.0

SOLENOID VALVES (R-410A & R-22) – EMERSON 200RD SERIES

200RD Solenoid Valve Selection Process:

Always use a valve rated at the lowest end of the capacity range closest to the rated tonnage of the unit into which it will be installed. For example, if the unit is rated 5 ton, use a 200RD3T series valve, which is rated at 4.5 ton.

- Can be used in liquid and suction line

applications

- Specifications:
 - Refrigerant: R-22 and R-410A
 - Maximum fluid temperature: 250°F
 - Maximum working pressure: 680 psig
 - Maximum operating pressure differential: 300 psig
- Coils for Solenoid Valves sold separately

Solenoid Valves – Emerson 200RD Series (R-410A & R-22)



- Pilot-operated, 2-way, normally closed
- Can be converted to bi-flow operation using kit KS30387 (Note: 200RD7xxxVLC, 200RD9xxxVLC and 200RD12xxxVLC cannot be converted to bi-flow operation)

- Available with optional features as follows:
 - Manual stem for stopping product flow (200RDxxxM VLC)
 - Mounting stud (200RDxxxTVLC)

PART NO	CONNECTION SIZE (IN)	CONNECTION TYPE	VALVE BODY OPTION	OVERALL LENGTH (IN)	CAPACITY R-22 (TONS)	CAPACITY R-410A (TONS)
200RD2T3TVLC	3/8	Sweat ODF w/Extended Ends	Mounting Stud	4-5/8	3.6	3.4
200RD3T3M VLC	3/8	Sweat ODF w/Extended Ends	Manual Stem	4-5/8	4.8	4.5
200RD3T3TVLC	3/8	Sweat ODF w/Extended Ends	Mounting Stud	4-5/8	4.8	4.5
200RD3T4M VLC	1/2	Sweat ODF w/Extended Ends	Manual Stem	4-5/8	4.8	4.5
200RD3T4TVLC	1/2	Sweat ODF w/Extended Ends	Mounting Stud	4-5/8	4.8	4.5
200RD4T3M VLC	3/8	Sweat ODF w/Extended Ends	Manual Stem	4-5/8	8.0	7.5
200RD4T3TVLC	3/8	Sweat ODF w/Extended Ends	Mounting Stud	4-5/8	8.0	7.5
200RD4T4M VLC	1/2	Sweat ODF w/Extended Ends	Manual Stem	5	8.0	7.5
200RD4T4TVLC	1/2	Sweat ODF w/Extended Ends	Mounting Stud	5	8.0	7.5
200RD4T5M VLC	5/8	Sweat ODF w/Extended Ends	Manual Stem	6-1/2	8.0	7.5

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SOLENOID VALVES

Solenoid Valves – Emerson 200RD Series (R-410A & R-22) – CONTINUED



PART NO	CONNECTION SIZE (IN)	CONNECTION TYPE	VALVE BODY OPTION	OVERALL LENGTH (IN)	CAPACITY R-22 (TONS)	CAPACITY R-410A (TONS)
200RD4T5TVLC	5/8	Sweat ODF w/Extended Ends	Mounting Stud	6-1/2	8.0	7.5
200RD5T3M VLC	3/8	Sweat ODF w/Extended Ends	Manual Stem	4-5/8	8.2	7.7
200RD5T3TVLC	3/8	Sweat ODF w/Extended Ends	Mounting Stud	4-5/8	8.2	7.7
200RD5T4M VLC	1/2	Sweat ODF w/Extended Ends	Manual Stem	5	8.2	7.7
200RD5T4TVLC	1/2	Sweat ODF w/Extended Ends	Mounting Stud	5	8.2	7.7
200RD5T5M VLC	5/8	Sweat ODF w/Extended Ends	Manual Stem	6-1/2	8.2	7.7
200RD5T5TVLC	5/8	Sweat ODF w/Extended Ends	Mounting Stud	6-1/2	8.2	7.7
200RD6T4M VLC	1/2	Sweat ODF w/Extended Ends	Manual Stem	5	9.5	8.9
200RD6T4TVLC	1/2	Sweat ODF w/Extended Ends	Mounting Stud	5	9.5	8.9
200RD6T5M VLC	5/8	Sweat ODF w/Extended Ends	Manual Stem	6-1/2	9.5	8.9
200RD6T5TVLC	5/8	Sweat ODF w/Extended Ends	Mounting Stud	6-1/2	9.5	8.9



Solenoid Coils – Emerson 100RB, 200RB, 240RA and 200RD Solenoid Valves

PART NO	DESCRIPTION
61-AMG120/240V	Solenoid Coil – 120/240VAC, 50/60 Hz
61-AMG120/50-60	Solenoid Coil – 120VAC, 50/60 Hz
61-AMG208/240V	Solenoid Coil – 208V-240VAC, 60Hz; 220VAC, 50 Hz
61-AMG24V	Solenoid Coil – 24VAC, 50/60 Hz

REFRIGERANT BALL VALVES



- Forged brass body with sweat fittings, 100% copper connections
- Reliable leak-free hermetic design
- Suitable for R-22 and R-410A, 650 psig maximum working pressure
- Full internal ports up to 2-1/8 inches
- Suitable for bi-flow operations
- Operating temperature range: -40°F to 250°F
- Optional access valve allows pressure measurement reading

PART NO	VENDOR PART NO	CONNECTION SIZE (IN)	OVERALL LENGTH (IN)	ACCESS VALVE	PORT SIZE
BVS-014	BVS-014	1/4	4-3/4	Included	Full
BVE-014	BVE-014	1/4	4-3/4	Not Included	Full
BVS-038	BVS-038	3/8	4-3/4	Included	Full
BVE-038	BVE-038	3/8	4-5/8	Not Included	Full
BVS-012	BVS-012	1/2	5	Included	Full
BVE-012	BVE-012	1/2	5	Not Included	Full
BVS-058	BVS-058	5/8	5	Included	Full
BVE-058	BVE-058	5/8	5	Not Included	Full
BVS-078	BVS-078	7/8	6-3/16	Included	Full
BVE-078	BVE-078	7/8	6-3/16	Not Included	Full
BVS-118	BVS-118	1-1/8	6-11/16	Included	Full
BVE-118	BVE-118	1-1/8	6-11/16	Not Included	Full
BVS-138	BVS-138	1-3/8	9-1/8	Included	Full
BVE-138	BVE-138	1-3/8	9-1/8	Not Included	Full
BVS-158	BVS-158	1-5/8	10-15/16	Included	Full
BVE-158	BVE-158	1-5/8	10-15/16	Not Included	Full
BVS-218	806764	2-1/8	11-11/16	Included	2 in.
BVE-218	806744	2-1/8	11-11/16	Not Included	2 in.
BVS-258	806765	2-5/8	11-11/16	Included	2 in.
BVE-258	806745	2-5/8	11-11/16	Not Included	2 in.

BRASS FITTINGS

BRASS STRAIGHT FITTINGS

Brass Straight Fittings – External Flare to External Flare



PART NO	INLET FLARE SAE SIZE (IN)	OUTLET FLARE SAE SIZE (IN)	CASE QTY	CASE REQ
82-A00325	1/4	1/4	25	Yes
82-A00327	3/8	3/8	25	Yes

Straight Adapters/Couplers – Flare to Sweat



PART NO	FITS TUBING SIZES (IN OD)	QTY/PKG
83-CD3338-6PK	1/4, 3/8	6
83-CD8400-6PK	3/16, 1/4, 5/16	6

Brass Straight Fittings – External Flare to External NPTFE



PART NO	FLARE SAE SIZE (IN)	NPTFE SIZE (IN)	CASE QTY	CASE REQ
82-A00330	1/4	1/8	25	Yes
82-A04585	1/4	1/4	25	Yes
82-A01199	3/8	3/8	25	Yes
82-A04993	3/8	1/2	25	Yes
82-A04780	1/2	1/2	10	Yes
82-A04540	5/8	1/2	10	Yes

Straight Adapters/Couplers – Flare to NPT



PART NO	FITTING 1 SIZE (IN.)	FITTING 1 TYPE	FITTING 2 SIZE (IN.)	FITTING 2 TYPE	QTY/PKG
83-CC1414-2PK	1/4	NPT (M)	1/4	SAE Flare (M)	2
83-CC1818-6PK	1/8	NPT (M)	1/4	SAE Flare (M)	6

Brass Straight Fittings – Internal Flare to External Flare



PART NO	INLET FLARE SAE SIZE (IN)	OUTLET FLARE SAE SIZE (IN)	CASE QTY	CASE REQ
82-A00479	3/8	1/4	15	Yes
82-A00481	1/2	3/8	15	Yes

Straight Adapters/Couplers – Flare to Swivel Nut



PART NO	FITTING 1 SIZE (IN.)	FITTING 1 TYPE	FITTING 2 SIZE (IN.)	FITTING 2 TYPE	QTY/PKG
83-CD1454-2PK	1/4	SAE Flare (F)	1/4	SAE Flare (M)	2

Brass Straight Fittings – Internal Flare to Internal Flare Straight Fitting



PART NO	INLET FLARE SAE SIZE (IN)	OUTLET FLARE SAE SIZE (IN)	CASE QTY	CASE REQ
82-A13563	1/4	1/4	15	Yes
82-A13565	3/8	3/8	15	Yes

Brass Straight Fittings – Internal Flare to Tube Extension Solder



PART NO	FLARE SAE SIZE (IN)	CASE QTY	CASE REQ
82-A15727	1/2	25	Yes
82-A15728	5/8	10	Yes
82-A15725	1/4	25	Yes
82-A15726	3/8	25	Yes

BRASS FITTINGS

BRASS TEES

Access Tees – Sweat

- One valve core included for each tee
- All male flare fittings are internally threaded to accept installation of valve core
- Includes brass cap



PART NO	BODY	FITTING 1 SIZE (IN)	FITTING 1 TYPE	FITTING 2 SIZE (IN)	FITTING 2 TYPE	BRANCH FIT SIZE (IN)	BRANCH FIT TYPE	QTY/PKG
83-CC8416-2PK	Copper Tube	5/16	Sweat ODF	5/16	Sweat ODF	1/4	SAE Flare (M)	2
83-CC8412-2PK	Copper Tube	1/2	Sweat ODF	1/2	Sweat ODF	1/4	SAE Flare (M)	2
83-CC8458-2PK	Copper Tube	5/8	Sweat ODF	5/8	Sweat ODF	1/4	SAE Flare (M)	2

Access Tees – Threaded

- One valve core included for each tee
- All male flare fittings are internally threaded to accept installation of valve core



PART NO	BODY	FITTING 1 SIZE (IN)	FITTING 1 TYPE	FITTING 2 SIZE (IN)	FITTING 2 TYPE	BRANCH FIT SIZE (IN)	BRANCH FIT TYPE	DEPRESSOR TIP INCL	DEPRESSOR TIP LOC	QTY/PKG
CD9627	Brass	1/4	SAE Flare (F)	1/4	SAE Flare (M)	1/4	SAE Flare (F)	Yes	None	2
83-CD9603-2PK	Brass	1/4	SAE Flare (M)	1/4	SAE Flare (M)	1/4	SAE Flare (F)	Yes	Branch	2
83-CD9601-2PK	Copper Tube	1/4	SAE Flare (F)	1/4	SAE Flare (M)	1/4	SAE Flare (M)	Yes	Fitting	2
83-CD9602-2PK	Copper Tube	1/4	SAE Flare (M)	1/4	SAE Flare (M)	1/4	SAE Flare (F)	Yes	Branch	2
83-CD9611-2PK	Forged Brass	1/4	SAE Flare (F)	1/4	SAE Flare (M)	1/4	SAE Flare (M)	Yes	Fitting	2

Access Tees – Threaded (U-shaped)

- One valve core included for each tee
- All male flare fittings are internally threaded to accept installation of valve core



PART NO	BODY	FITTING 1 SIZE (IN)	FITTING 1 TYPE	FITTING 2 SIZE (IN)	FITTING 2 TYPE	BRANCH FIT SIZE (IN)	BRANCH FIT TYPE	DEPRESSOR TIP INCL	DEPRESSOR TIP LOC	QTY/PKG
83-CD9640-1PK	Copper Tube	1/4	SAE Flare (M)	1/4	SAE Flare (M)	1/4	SAE Flare (F)	Yes	Branch	1

Brass Tee – Three Way (Internal Branch)



PART NO	INLET FLARE SAE SIZE (IN)	OUTLET FLARE SAE SIZE (IN)	BRANCH FLARE SIZE (IN)	CASE QTY	CASE REQ
82-A06330	1/4	1/4	1/4	25	Yes

Brass Tee – Two Way (External Branch)



PART NO	INLET FLARE SAE SIZE (IN)	OUTLET FLARE SAE SIZE (IN)	BRANCH FLARE SIZE (IN)	CASE QTY	CASE REQ
82-A00345	1/4	1/4	1/8	25	Yes

BRASS ELBOWS

Brass Elbows – 90 Degree



PART NO	FLARE SAE SIZE (IN)	NPTFE SIZE (IN)	CASE QTY	CASE REQ
82-A00335	1/4	1/8	25	Yes
82-A04890	1/4	1/4	25	Yes

BRASS FITTINGS

SERVICE VALVES



Service Valves – Saddle Mount

PART NO	FITS TUBING SIZES (IN OD)	QTY/PKG
83-CD5514-6PK	1/4	6
83-CD5516-6PK	5/16	6
83-CD5538-6PK	3/8	6
83-CD5512-4PK	1/2	4
83-CD2812-4PK	1/2	4
83-CD5558-3PK	5/8	3
83-CD5534-2PK	3/4	2



Service Valves – Copper Tube (Premium)

- Includes brass cap with core wrench
- Includes 1/8 in. pipe thread below the hex

PART NO	FITS TUBING SIZES (IN OD)	QTY/PKG
83-CD3608-6PK	1/8	6
83-CD3602-6PK	1/4	6
83-CD3604-6PK	1/4	6



Service Valves – Copper Tube (Standard)

- Includes brass cap with core wrench
- Does not include pipe thread below the hex

PART NO	FITS TUBING SIZES (IN OD)	QTY/PKG
83-CD1010-6PK	1/8	6
803001	1/8	6
803003	1/4	6
803004	5/16	3
803002	3/8	6



Service Valves - Copper Tube (Economy)

- Includes brass cap
- Does not include pipe thread below the hex

PART NO	FITS TUBING SIZES (IN OD)	QTY/PKG
83-CD8408-6PK	1/8	6
83-CD8403-6PK	3/16	6
83-CD8404-6PK	1/4	6
83-CD8405-6PK	5/16	6
83-CD8406-6PK	3/8	6



Clamp-on Service Line Tap Valves (Standard)

These line tap valves pierce with a needle which automatically retracts and back seats when work is complete. The refrigerant line remains free of any restriction. No special installation tools are needed because socket head screws and hex wrench are included with every valve. These dependable and field-proven valves are easy to install and suitable with all refrigerants.

PART NO	FITS TUBING SIZES (IN OD)	QTY/PKG
83-CD4338-1PK	1/4, 5/16, 3/8	1
83-CD4358-1PK	1/2, 5/8	1



Clamp-on Service Line Tap Valves (B-Series)

- Easy to use, no special tools required
- Compatible with all refrigerants

PART NO	FITS TUBING SIZES (IN OD)	QTY/PKG
83-CD2380-2PK	3/8	2

BRASS FITTINGS

PROTECTIVE CAPS

Novent Caps

NOVENT

- Resist tampering with refrigerant service ports and refrigerant tanks by children and unauthorized personnel
- Corrosion-resistant color-coded caps to identify type of refrigerant and prevent mixing
- O-ring seal provides positive backup for leaking service valves
- Patented design



PART NO	DESCRIPTION
NV-MULTIKEY	Multi Key (Fits All Novent Caps)
NG-R22-10PK	Novent 1/4 in. Cap for R-22 – Green (Pack of 10)
NG-R22-2PK	Novent 1/4 in. Cap for R-22 – Green (Pack of 2)
NG-R22-50PK	Novent 1/4 in. Cap for R-22 – Green (Pack of 50)
NP-R410-10PK	Novent 1/4 in. Cap for R-40A – Pink (Pack of 10)
NP-R410-2PK	Novent 1/4 in. Cap for R-410A – Pink (Pack of 2)
NP-R410-50PK	Novent 1/4 in. Cap for R-410A – Pink (Pack of 50)
NS-UNI-10PK	Novent 1/4 in. Universal Cap – Silver (Pack of 10)
NS-UNI-2PK	Novent 1/4 in. Universal Cap – Silver (Pack of 2)
NS-UNI-50PK	Novent 1/4 in. Universal Cap – Silver (Pack of 50)
86690	Novent 1/4 in. Universal Starter Pack (6 Silver Caps, 1 Multi Key)
NPE-R410-10PK	Novent 5/16 in. EuroCap for R-410A – Pink (Pack of 10)
NG-R22-SDT	Novent Screwdriver Key for R-22 and Universal Cap
NG-R410-SDT	Novent Screwdriver Key for R-410A and R-410A Euro Cap

Protective Cap – Nylon



PART NO	FLARE SAE SIZE (IN)	QTY/PKG
83-CD2210-25PK	1/4	25

Protective Cap – Brass w/Core Removal Tool



PART NO	FLARE SAE SIZE (IN)	QTY/PKG
83-CD2250-6PK	1/4	6

Protective Cap – Brass Serrated Body



PART NO	FLARE SAE SIZE (IN)	QTY/PKG
83-CD2245-6PK	1/4	6

Brass Sealing Caps – Hex Head Flare Fitting



PART NO	FLARE SAE SIZE (IN)	CASE QTY	CASE REQ
82-A04544	1/4	50	Yes
82-A04545	3/8	25	Yes

BRASS FORGED FLARE TUBE NUTS

Brass Forged Flare Tube Nuts



PART NO	TUBE OD (IN)	CASE QTY	CASE REQ
82-A5051	1/4	50	Yes
82-A5052	3/8	25	Yes
82-A5053	1/2	15	Yes
82-A5157	5/8	10	Yes

VALVE CORES & WRENCHES



Valve Cores

Standard HVAC/refrigeration valve core (0.206 in. diameter x 36 UNS)

PART NO	QTY/PKG
83-CD4460-6PK	6



Core Container/Wrench

- All brass with knurl for easy handling
- Compact design holds three valve cores (included)

PART NO	QTY/PKG
83-CD3813-1PK	1



Core Container/Wrench

- Includes two tools: 1) core wrench and 2) thread chaser
- Also includes a bottle for storing cores and six valve cores

PART NO	QTY/PKG
83-CD3800-1PK	1

OIL TAP



- Installed on a semi-hermetic compressor for changing of oil and testing procedures
- Internal pressure helps discharge oil from the crankcase and acid test can be made while the compressor is running
- Allows addition by vacuum or removal by pressure of oil while compressor is running
- Detects hazardous refrigerant pooling in crankcase before start-up and controls the removal using a compound gauge
- Can be permanently installed

PART NO	FITS TUBING SIZES (IN OD)	QTY/PKG
83-CD1808-1PK		1

COPPER FITTINGS



Copper Bushings

PART NO	HVACR FITTING INLET ID (IN)	HVACR FITTING OUTLET OD (IN)	PLUMBING FITTING INLET ID (IN)	PLUMBING FITTING OUTLET OD (IN)	CASE QTY	CASE REQ
82-21801-08	3/8	1/2	1/4	3/8	100	—
82-21801-12	5/8	3/4	1/2	5/8	50	—
82-21801-06	5/8	7/8	1/2	3/4	50	—
82-21801-14	3/4	7/8	5/8	3/4	50	—

COPPER FITTINGS



Copper Couplings

PART NO	HVACR FITTING SIZE ID (IN)	PLUMBING FITTING SIZE ID (IN)	CASE QTY	CASE REQ
82-21803-06	3/8	1/4	50	—
82-21803-08	1/2	3/8	50	—
82-21803-10	5/8	1/2	100	—
82-21803-12	3/4	5/8	50	—
82-21803-14	7/8	3/4	50	—
82-21803-18	1-1/8	1	25	—



Copper Reducer Couplings

PART NO	HVACR FITTING INLET ID (IN)	HVACR FITTING OUTLET ID (IN)	PLUMBING FITTING INLET ID (IN)	PLUMBING FITTING OUTLET ID (IN)	CASE QTY	CASE REQ
82-21804-08	1/2	3/8	3/8	1/4	50	—
82-21804-10	5/8	1/2	1/2	3/8	100	—
82-21804-12	3/4	5/8	5/8	1/2	100	—
82-21804-14	7/8	3/4	3/4	5/8	100	—
82-21804-22	1-3/8	7/8	1-1/4	3/4	10	—



Copper 90 Degree Street Elbows (Short Radius)

PART NO	HVACR FITTING SIZE (IN)	PLUMBING FITTING SIZE (IN)	CASE QTY	CASE REQ
82-21802-08	1/2	3/8	50	—
82-21802-10	5/8	1/2	50	—
82-21802-12	3/4	5/8	25	—
82-21802-14	7/8	3/4	25	—



Copper 45 Degree Street Elbows (Short Radius)

PART NO	HVACR FITTING SIZE (IN)	PLUMBING FITTING SIZE (IN)	CASE QTY	CASE REQ
82-21802-30	5/8	1/2	50	—
82-21802-32	3/4	5/8	50	—
82-21802-34	7/8	3/4	25	—
82-21802-38	1-1/8	1	25	—



Copper Gaskets

PART NO	FLARE SAE SIZE (IN)	CASE QTY	CASE REQ
82-A00401	1/4	100	Yes
82-A00402	3/8	100	Yes

SERVICE VALVES

- Frontseating valves; isolate sections of a system for servicing and a means for refrigerant charging
- All brass corrosion resistant body and solid copper fittings
- Includes 1/4 Flare SAE charge port; communicates with lower fitting when in closed position
- Suitable for R-22 and R-410A, 600 psig maximum working pressure

Service Valves – Side Charge Port



PART NO	CONNECTION SIZE - CHARGE PORT SIDE (IN)	CONNECTION TYPE - CHARGE PORT SIDE	CONNECTION SIZE OPPOSITE CHARGE PORT SIDE (IN)	CONNECTION TYPE OPPOSITE CHARGE PORT SIDE	OVERALL LENGTH (IN)	CHARGE PORT LOCATION
61-104914-03	3/4	Sweat ODF	3/4	Sweat ODF	5	Side
61-104914-04	7/8	Sweat ODF	7/8	Sweat ODF	5	Side

SERVICE VALVES



Service Valves – Bottom Charge Port

PART NO	CONNECTION SIZE - CHARGE PORT SIDE (IN)	CONNECTION TYPE - CHARGE PORT SIDE	CONNECTION SIZE OPPOSITE CHARGE PORT SIDE (IN)	CONNECTION TYPE OPPOSITE CHARGE PORT SIDE	OVERALL LENGTH (IN)	CHARGE PORT LOCATION
61-21368-25	3/8	Sweat ODF	3/8	Sweat ODF	4-5/8	Bottom
61-21368-06	5/8	Sweat ODF	5/8	Sweat ODF	5	Bottom
61-21368-23	3/4	Sweat ODF	5/8	Sweat ODF	5	Bottom
61-21368-07	3/4	Sweat ODF	3/4	Sweat ODF	5	Bottom
61-21368-22	7/8	Sweat ODF	3/4	Sweat ODF	5-1/8	Bottom
61-21368-08	7/8	Sweat ODF	7/8	Sweat ODF	5-1/8	Bottom



Service Valves – Front Charge Port

PART NO	CONNECTION SIZE - CHARGE PORT SIDE (IN)	CONNECTION TYPE - CHARGE PORT SIDE	CONNECTION SIZE OPPOSITE CHARGE PORT SIDE (IN)	CONNECTION TYPE OPPOSITE CHARGE PORT SIDE	OVERALL LENGTH (IN)	CHARGE PORT LOCATION
61-101160-13	3/8	Sweat ODF	3/8	Sweat ODF	4-5/8	Front
61-104025-12	1/2	Sweat ODF	1/2	Sweat ODF	5	Front
61-21368-14	5/8	Sweat ODF	5/8	Sweat ODF	5	Front
61-21368-17	3/4	Sweat ODF	5/8	Sweat ODF	5	Front
61-104025-15	3/4	Sweat ODF	3/4	Sweat ODF	5	Front
61-101160-21	3/4	Sweat ODF	7/8	Sweat ODF	5-1/8	Front
61-21368-24	7/8	Sweat ODF	3/4	Sweat ODF	5-1/8	Front
61-21368-16	7/8	Sweat ODF	7/8	Sweat ODF	5-1/8	Front

CAPILLARY TUBE & FLOWCHECK DISTRIBUTOR ASSEMBLIES, PISTONS

CAPILLARY TUBE ASSEMBLIES

Capillary Tube Assemblies – Formed Flat Distributor Type



PART NO	DISTRIBUTOR INLET SIZE (IN)	CAPILLARY TUBE QTY	CAPILLARY TUBE LENGTH (IN)	CAPILLARY TUBE ID (IN)	CAPILLARY TUBE OD (IN)
AS-21821-71	3/8 I.D.	2	28	0.042	0.093
AS-21821-50	3/8 I.D.	2	44	0.049	0.100
AS-21821-32	3/8 I.D.	2	32	0.054	0.106
AS-21821-31	3/8 I.D.	2	40	0.059	0.112
AS-21821-04	3/8 I.D.	2	45	0.064	0.125
AS-21821-38	3/8 I.D.	2	50	0.064	0.125
AS-21821-39	3/8 I.D.	3	20	0.042	0.093
AS-21821-41	3/8 I.D.	3	18	0.049	0.100
AS-21821-70	3/8 I.D.	3	30	0.049	0.100
AS-21821-34	3/8 I.D.	3	36	0.049	0.100
AS-21821-48	3/8 I.D.	3	40	0.049	0.100
AS-21821-09	3/8 I.D.	3	32	0.054	0.106
AS-21821-33	3/8 I.D.	3	30	0.064	0.125
AS-21821-11	3/8 I.D.	3	50	0.064	0.125
AS-21821-42	3/8 I.D.	4	20	0.049	0.100
AS-21821-44	3/8 I.D.	4	26	0.049	0.100
AS-21821-21	3/8 I.D.	4	27	0.049	0.100
AS-21821-27	3/8 I.D.	4	30	0.049	0.100
AS-21821-20	3/8 I.D.	4	30	0.049	0.100
AS-21821-66	3/8 I.D.	4	36	0.049	0.100
AS-21821-01	3/8 I.D.	4	36	0.049	0.100
AS-21821-43	3/8 I.D.	4	44	0.049	0.100
AS-21821-05	3/8 I.D.	4	30	0.054	0.106

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CAPILLARY TUBE & FLOWCHECK DISTRIBUTOR ASSEMBLIES, PISTONS



Capillary Tube Assemblies – Formed Flat Distributor Type – CONTINUED

PART NO	DISTRIBUTOR INLET SIZE (IN)	CAPILLARY TUBE QTY	CAPILLARY TUBE LENGTH (IN)	CAPILLARY TUBE ID (IN)	CAPILLARY TUBE OD (IN)
AS-21821-36	3/8 I.D.	4	32	0.054	0.106
AS-21821-19	3/8 I.D.	5	30	0.049	0.100
AS-21821-60	3/8 I.D.	6	20	0.042	0.093
AS-21821-29	3/8 I.D.	6	30	0.049	0.100
AS-21821-03	3/8 I.D.	6	40	0.049	0.100
AS-21821-49	3/8 I.D.	6	32	0.059	0.112
AS-21821-69	3/8 I.D.	6	40	0.059	0.112
AS-21821-72	7/8 I.D.	6	28, 25, 17, 13, 9, 7	0.311	0.375
AS-21821-65	3/8 I.D.	7	45	0.054	0.106
AS-21821-02	3/8 I.D.	8	24	0.049	0.100
AS-21821-47	3/8 I.D.	8	32	0.049	0.100
AS-21821-28	3/8 I.D.	8	36	0.049	0.100
AS-21821-80	3/8 I.D.	8	40	0.054	0.106
AS-21821-59	3/8 I.D.	8	45	0.054	0.106
AS-21821-93	1/2 O.D.	8	30, 60	0.127	0.187
AS-21821-90	7/8 O.D.	8	21	0.194	0.250
AS-21821-84	3/8 I.D.	10	23	0.049	0.100
AS-21821-13	3/8 I.D.	10	24	0.049	0.100
AS-21821-57	3/8 I.D.	10	26	0.049	0.100
AS-21821-52	3/8 I.D.	10	32	0.049	0.100
AS-21821-58	3/8 I.D.	10	36	0.049	0.100
AS-21821-87	3/8 I.D.	11	28	0.049	0.100
AS-21821-35	3/8 I.D.	11	40	0.049	0.100
AS-21821-81	1/2 O.D.	12	40	0.054	0.106
AS-21821-62	7/8 O.D.	14	32	0.131	0.187
AS-21821-61	1-1/8 O.D.	18	24	0.127	0.187
AS-21821-37	1-1/8 O.D.	18	24	0.127	0.187
AS-21821-18	3/8 I.D.	20	24	0.049	0.100



Capillary Tube Assemblies – Machined Round Distributor Type

PART NO	DISTRIBUTOR INLET SIZE (IN)	CAPILLARY TUBE QTY	CAPILLARY TUBE LENGTH (IN)	CAPILLARY TUBE ID (IN)	CAPILLARY TUBE OD (IN)
AS-21821-30	5/8 I.D.	3	27	0.127	0.187
83-100632-15	3/8 I.D.	6	24	0.049	0.094
83-100632-16	3/8 I.D.	6	22	0.054	0.098
83-100632-17	3/8 I.D.	6	24	0.054	0.098
83-100632-01	3/8 I.D.	6	26	0.054	0.098
83-100632-09	3/8 I.D.	6	34	0.054	0.098
83-100632-03	3/8 I.D.	6	30	0.059	0.112
83-100632-19	3/8 I.D.	6	34	0.064	0.125
AS-21821-54	5/8 I.D.	6	27	0.127	0.187
83-100632-06	3/8 I.D.	8	32	0.054	0.098
AS-21821-92	5/8 I.D.	8	18	0.127	0.187
AS-21821-79	5/8 I.D.	8	27	0.127	0.187
83-100632-18	3/8 I.D.	9	26	0.054	0.098
83-100632-02	3/8 I.D.	9	34	0.054	0.098
83-100632-20	3/8 I.D.	9	40	0.059	0.112
83-100632-14	3/8 I.D.	10	20	0.049	0.094
83-100632-22	3/8 I.D.	10	28	0.049	0.094
83-100632-12	3/8 I.D.	11	26	0.042	0.088
83-100632-13	3/8 I.D.	11	26	0.049	0.094
83-100632-21	3/8 I.D.	11	38	0.049	0.094

CAPILLARY TUBE & FLOWCHECK DISTRIBUTOR ASSEMBLIES, PISTONS

FLOWCHECK DISTRIBUTOR ASSEMBLIES

Flowcheck Distributor Assemblies w/out Bulb Strainer

All capillary tubes are 0.144 inch O.D. with 0.028 inch wall thickness



PART NO	NO OF CAPILLARY TUBES	CAPILLARY TUBE LENGTH (IN)	PISTON BORE (IN)	PISTON PART NO
61-102103-12	3	11.810	.1200	61-25414-12
61-102104-14	4	11.810	.1405	61-25414-14
61-102106-12	6	15.810	.1200	61-25414-12
61-102106-14	6	15.810	.1405	61-25414-14
61-102108-17	8	15.810	.1719	61-25414-17

Flowcheck Distributor Assemblies w/Bulb Strainer

- Includes bulb strainer (3/4 inch diameter x 3-1/2 inch length, with 3/8 inch I.D. inlet opening)
- All capillary tubes are 0.144 inch O.D. with 0.028 inch wall thickness



PART NO	NO OF CAPILLARY TUBES	CAPILLARY TUBE LENGTH (IN)	PISTON BORE (IN)	PISTON PART NO
61-101302-41	2	17.810	.0410	61-25414-41
61-104236-02	2	18.000	N/A	Not included
61-104236-03	3	12.000	N/A	Not included
61-101303-49	3	17.810	.0492	61-25414-49
61-101303-53	3	17.810	.0531	61-25414-53
61-101303-57	3	17.810	.0571	61-25414-57
61-104236-13	3	18.000	N/A	Not included
61-104236-23	3	20.000	N/A	Not included
61-104236-04	4	12.000	N/A	Not included
61-101304-59	4	17.810	.0591	61-25414-59
61-101304-14	4	17.810	.1405	61-25414-14
61-104236-14	4	18.000	N/A	Not included
61-26113-05	5	11.810	N/A	Not included
61-104236-27	5	12.000	N/A	Not included
61-104236-28	5	24.000	N/A	Not included
61-104236-06	6	12.000	N/A	Not included
61-101306-59	6	17.810	.0591	61-25414-59
61-101306-73	6	17.810	.0730	61-25414-73
61-104236-16	6	18.000	N/A	Not included
61-104236-21	6	20.000	N/A	Not included
61-104236-29	6	24.000	N/A	Not included
61-104236-08	8	12.000	N/A	Not included
61-104236-18	8	18.000	N/A	Not included
61-104236-31	8	24.000	N/A	Not included
61-104236-35	9	30.000	N/A	Not included
61-26110-14	10	13.81	.1405	61-25414-14
61-26110-15	10	13.81	.1570	61-25414-15
61-26113-10	10	13.810	N/A	Not included
61-104236-10	10	14.000	N/A	Not included
61-26113-20	10	17.810	N/A	Not included
61-104236-20	10	18.000	N/A	Not included
61-26113-33	10	23.810	N/A	Not included
61-104236-33	10	24.000	N/A	Not included
61-26113-34	12	23.810	N/A	Not included
61-104236-34	12	24.000	N/A	Not included

CAPILLARY TUBE & FLOWCHECK DISTRIBUTOR ASSEMBLIES, PISTONS

FLOWCHECK PISTONS



61-22119 Series Flowcheck Pistons

- Three ribs, 1/16 inch wide x 1/16 inch high, parallel to length, evenly spaced around piston O.D.

PART NO	ORIFICE DIAMETER (IN)	OVERALL LENGTH (IN)	PISTON OUTER OD (IN)
61-22119-68	0.0689	0.5	0.4580
61-22119-73	0.0730	0.4820	0.4580



61-25414 Series Flowcheck Pistons

- Five grooves, 1/16 inch wide x 1/16 inch deep, parallel to length, evenly spaced around piston O.D.
- Includes Teflon O-Ring



PART NO	ORIFICE DIAMETER (IN)	OVERALL LENGTH (IN)	PISTON OUTER OD (IN)
61-25414-39	0.0390	0.500	0.4585
61-25414-40	0.0400	0.500	0.4585
61-25414-41	0.0410	0.500	0.4585
61-25414-42	0.0420	0.500	0.4585
61-25414-43	0.0430	0.500	0.4585
61-25414-47	0.0469	0.500	0.4585
61-25414-49	0.0492	0.500	0.4585
61-25414-51	0.0512	0.500	0.4585
61-25414-53	0.0531	0.500	0.4585
61-25414-55	0.0550	0.500	0.4585
61-25414-57	0.0571	0.500	0.4585
61-25414-59	0.0591	0.500	0.4585
61-25414-61	0.0610	0.500	0.4585
61-25414-62	0.0625	0.500	0.4585
61-25414-65	0.0650	0.500	0.4585
61-25414-67	0.0670	0.500	0.4585
61-25414-68	0.0689	0.500	0.4585
61-25414-70	0.0700	0.500	0.4585
61-25414-71	0.0709	0.500	0.4585
61-25414-73	0.0730	0.500	0.4585
61-25414-74	0.0748	0.500	0.4585
61-25414-76	0.0760	0.500	0.4585
61-25414-77	0.0770	0.48	0.4585
61-25414-78	0.0781	0.480	0.4585
61-25414-80	0.0807	0.480	0.4585
61-25414-82	0.0820	0.480	0.4585
61-25414-84	0.0846	0.480	0.4585
61-25414-86	0.0860	0.480	0.4585
61-25414-88	0.0886	0.480	0.4585
61-25414-89	0.0890	0.480	0.4585
61-25414-90	0.0906	0.480	0.4585
61-25414-93	0.0925	0.480	0.4585
61-25414-94	0.0938	0.480	0.4585
61-25414-09	0.1000	0.480	0.4585
61-25414-11	0.1100	0.480	0.4585
61-25414-12	0.1200	0.455	0.4585
61-25414-14	0.1400	0.455	0.4585
61-25414-15	0.1570	0.455	0.4585
61-25414-17	0.1720	0.455	0.4585
61-25414-79	0.79	0.48	0.4585

STRAINERS

Strainers – Bulb Type

PART NO	INLET SIZE (IN)	INLET TYPE	LENGTH (IN)	OUTLET SIZE (IN)	OUTLET TYPE
83-26020-81	3/8	Sweat ODF	3-1/4		Chatleff w/Piston Retainer
83-26020-05	3/8	Sweat ODF	2-3/4	3/8	Sweat ODF
83-26020-02	3/8	Sweat ODF	2-3/4	3/8	Sweat ODM
83-26020-07	3/8	Sweat ODF	2-3/4	1/2	Sweat ODF
83-26020-03	3/8	Sweat ODM	2-3/4	1/2	Sweat ODM

Strainers – Inline Type

PART NO	INLET SIZE (IN)	INLET TYPE	LENGTH (IN)	OUTLET SIZE (IN)	OUTLET TYPE
83-41419-02	5/8	Sweat ODM	4	5/8	Sweat ODM

Strainers – Insert Type

PART NO	FITS TUBE SIZE (IN)	LENGTH (IN)
83-25316-02	3/8	1-1/2
61-X-24779-6	1/2	1
83-25316-01	1/2	1-1/2

