

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	NOMINAL CPTY (TON)	CHECK VALVE	INLET SIZE (IN)	INLET FITTING TYPE	OUTLET SIZE (IN)	OUTLET FITTING TYPE	CAP TUBE LENGTH (IN)	EXT EQUILIZER CONNECTION (IN)
611006	RCVE-2-GA 3x4x2 ODF 30	2	Yes	3/8	Sweat ODF	1/2	Sweat ODF	30	1/4 Sweat ODF
611007	RCVE-3-GA 3x4x2 ODF 30	3	Yes	3/8	Sweat ODF	1/2	Sweat ODF	30	1/4 Sweat ODF
611008	RCVE-4-GA 4x4x2 ODF 30	4	Yes	1/2	Sweat ODF	1/2	Sweat ODF	30	1/4 Sweat ODF
611009	RCVE-5-GA 4x4x2 ODF 30	5	Yes	1/2	Sweat ODF	1/2	Sweat ODF	30	1/4 Sweat ODF
611010	RCVE-6-GA 4x4x2 ODF 30	6	Yes	1/2	Sweat ODF	1/2	Sweat ODF	30	1/4 Sweat ODF



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	NOMINAL CPTY (TON)	CHECK VALVE	INLET SIZE (IN)	INLET FITTING TYPE	OUTLET SIZE (IN)	OUTLET FITTING TYPE	CAP TUBE LENGTH (IN)	EXT EQUILIZER CONNECTION (IN)
611011	RCZE-2-GA 3x4x2 ODF 30	2	Yes	3/8	Sweat ODF	1/2	Sweat ODF	30	1/4 Sweat ODF
611012	RCZE-3-GA 3x4x2 ODF 30	3	Yes	3/8	Sweat ODF	1/2	Sweat ODF	30	1/4 Sweat ODF
611013	RCZE-4-GA 4x4x2 ODF 30	4	Yes	1/2	Sweat ODF	1/2	Sweat ODF	30	1/4 Sweat ODF
611014	RCZE-5-GA 4x5x2 ODF 30	5	Yes	1/2	Sweat ODF	5/8	Sweat ODF	30	1/4 Sweat ODF
611015	RCZE-6-GA 4x5x2 ODF 30	6	Yes	1/2	Sweat ODF	5/8	Sweat ODF	30	1/4 Sweat ODF



Superheat Adjustment Kits for OEM TXVs

- These kits allow OEM TXVs with factory set superheat to be field converted to adjustable superheat

PART NO	DESCRIPTION
KA-4	Adjustable Base – Sporlan BBI Series TXVs
KAI/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-VGA	Replacement Power Head – TXV
KT-45-ZCP160	Replacement Power Head – TXV
KT-45-ZGA	Replacement Power Head – TXV
KT-45-ZN	Replacement Power Head – TXV
KT-53-VGA	Replacement Power Head – TXV

SIGHT GLASSES



PROTECH Sight Glasses



PROTECH™ sight glasses provide a quick visual diagnosis of refrigerant and moisture levels within a system. The sight glass 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)
83-25156-01	Sweat ODF	1/4	4-5/8
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



Sporlan See-All Sight Glasses



- Painted steel body with copper fittings
- Includes protective cap for glass 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	OVERALL LENGTH
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-1MM2	Flare SAE (M/M)	1/4	3-1/8
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

SIGHT GLASSES



Emerson AMI Series Repairable Sight Glasses

- Allows disassembly to replace the moisture indicator and lens (Repair kit part number 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



PART NO	CONNECTION TYPE	CONNECTION SIZE	OVERALL LENGTH
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
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
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-1MU3	Flare SAE (M/F)	3/8	4-3/8
83-AMI-1FM4	Flare SAE (M/F)	1/2	3-7/32
83-AMI-1MU5	Flare SAE (M/F)	5/8	5-3/32
83-AMI-1UU5	Flare SAE (F/F)	5/8	6-1/64

FILTER DRIERS – LIQUID LINE

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
- Suitable for R-22 and R-410A, 680 psig maximum working pressure
- Solid copper fittings

PART NO	INDUSTRY CODE	CONNECT SIZE (IN)	CONNECTION TYPE	OVERALL LENGTH (IN)	BODY LENGTH (IN)	BODY DIA (IN)	CAPACITY (IN ³)	R-22 ARI FLOW CAPACITY @ 1 PSI DROP (TONS)	R-410A ARI FLOW CAPACITY @ 1 PSI DROP (TONS)
83-25151-04	032S	1/4	Sweat ODF	3-7/8	2-9/16	1-5/8	3	2.5	2.5
83-25151-03	033S	3/8	Sweat ODF	4-1/16	2-9/16	1-5/8	3	3.3	3.3
83-25151-09	052S	1/4	Sweat ODF	4-7/16	3	2-5/8	5	3.1	3.1
83-25151-10	053S	3/8	Sweat ODF	4-1/2	3	2-5/8	5	4.9	4.9
83-25151-11	054S	1/2	Sweat ODF	4-1/2	4-1/2	2-5/8	5	5.5	5.5
83-25151-15	082S	1/4	Sweat ODF	5-1/4	3-13/16	2-5/8	8	3.4	3.4
83-25151-16	083S	3/8	Sweat ODF	5-5/16	3-13/16	2-5/8	8	4.6	4.6
83-25151-17	084S	1/2	Sweat ODF	5-3/8	3-13/16	2-5/8	8	7.6	7.6
83-25151-22	162S	1/4	Sweat ODF	6-7/16	3-13/16	2-5/8	16	3.4	3.4
83-25151-23	163S	3/8	Sweat ODF	6-1/8	4-5/8	2-5/8	16	5.3	5.3
83-25151-24	164S	1/2	Sweat ODF	6-3/16	4-5/8	2-5/8	16	9.3	9.3
83-25151-25	165S	5/8	Sweat ODF	6-3/8	4-5/8	2-5/8	16	14.2	14.2
83-25151-26	166S	3/4	Sweat ODF	6-15/16	4-3/4	2-5/8	16	15.5	15.4
83-25151-27	167S	7/8	Sweat ODF	7-1/8	4-3/4	2-5/8	16	17.3	17.3
83-25151-31	303S	3/8	Sweat ODF	9	7-1/2	3-1/16	30	6.8	6.8
83-25151-32	304S	1/2	Sweat ODF	9-1/8	7-1/2	3-1/16	30	9.5	9.5
83-25151-33	305S	5/8	Sweat ODF	9-5/16	7-1/2	3-1/16	30	15.7	15.7
83-25151-34	306S	3/4	Sweat ODF	9-11/16	7-1/2	3-1/16	30	17.1	17.1
83-25151-35	307S	7/8	Sweat ODF	9-7/8	7-1/2	3-1/16	30	18.9	18.9
83-25151-36	309S	1-1/8	Sweat ODF	10-3/16	7-1/2	3-1/16	30	27.0	27.0
83-25151-38	415S	5/8	Sweat ODF	9-7/16	7-5/8	3-11/16	41	17.9	17.9
83-25151-02	033	3/8	Flare SAE (M/M)	4-11/16	2-9/16	1-5/8	3	2.9	2.9
83-25151-05	052	1/4	Flare SAE (M/M)	4-13/16	3	2-5/8	5	2.2	2.2
83-25151-06	053	3/8	Flare SAE (M/M)	5-1/8	3	2-5/8	5	4.0	4.0
83-25151-12	082	1/4	Flare SAE (M/M)	5-5/8	3-13/16	2-5/8	8	2.2	2.2
83-25151-13	083	3/8	Flare SAE (M/M)	5-15/16	3-13/16	2-5/8	8	4.7	4.7
83-25151-14	084	1/2	Flare SAE (M/M)	6-3/16	3-13/16	2-5/8	8	7.3	7.3
83-25151-18	162	1/4	Flare SAE (M/M)	6-7/16	4-5/8	2-5/8	16	2.2	2.2
83-25151-19	163	3/8	Flare SAE (M/M)	6-3/4	4-5/8	2-5/8	16	4.8	4.8
83-25151-20	164	1/2	Flare SAE (M/M)	6-15/16	4-5/8	2-5/8	16	9.0	9.0
83-25151-21	165	5/8	Flare SAE (M/M)	7-7/16	4-5/8	2-5/8	16	12.8	12.8
83-25151-28	303	3/8	Flare SAE (M/M)	9-5/8	7-1/2	3-1/16	30	5.1	5.1
83-25151-29	304	1/2	Flare SAE (M/M)	9-7/8	7-1/2	3-1/16	30	9.3	9.3
83-25151-30	305	5/8	Flare SAE (M/M)	10-5/16	7-1/2	3-1/16	30	15.0	15.0
83-25151-37	415	5/8	Flare SAE (M/M)	10-7/16	7-5/8	3-11/16	41	16.9	16.9
83-25151-07	052MF	1/4	Flare SAE (M/F)	4-1/2	3	2-5/8	5	2.3	2.3
83-25151-08	053MF	3/8	Flare SAE (M/F)	4-5/8	3	2-5/8	5	3.8	3.8

FILTER DRIERS – LIQUID LINE



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
- Suitable for R-22 and R-410A, 680 psig maximum working pressure
- Solid copper fittings

PART NO	INDUSTRY CODE	CONNECT SIZE (IN)	CONNECTION TYPE	OVERALL LENGTH (IN)	BODY LENGTH (IN)	BODY DIA (IN)	CAPACITY (IN ³)	R-22 ARI FLOW CAPACITY @ 1 PSI DROP (TONS)	R-410A ARI FLOW CAPACITY @ 1 PSI DROP (TONS)
83-25152-08	082S	1/4	Sweat ODF	5-1/4	3-13/16	2-5/8	8	—	—
83-25152-03	083S	3/8	Sweat ODF	5-5/16	3-13/16	2-5/8	8	4.0	4.1
83-25152-04	084S	1/2	Sweat ODF	5-3/8	3-13/16	2-5/8	8	5.0	5.1
83-25152-05	163S	3/8	Sweat ODF	6-1/16	4-5/8	3-1/8	16	4.5	4.6
83-25152-06	164S	1/2	Sweat ODF	6-3/16	4-5/8	3-3/16	16	5.2	5.3
83-25152-07	165S	5/8	Sweat ODF	6-3/8	4-5/8	3-3/16	16	6.0	6.1
83-25152-01	083	3/8	Flare SAE (M/M)	5-15/16	3-13/16	2-5/8	8	3.5	3.6
83-25152-02	084	1/2	Flare SAE (M/M)	6-3/16	3-13/16	2-5/8	8	4.5	4.6



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)	CONNECTION TYPE	OVERALL LENGTH (IN)	BODY LENGTH (IN)	BODY DIA (IN)	CAPACITY (IN ³)	R-22 ARI FLOW CAPACITY @ 1 PSI DROP (TONS)	R-410A ARI FLOW CAPACITY @ 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
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-082-S	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	4-3/8	2-5/8	8	5.2	5
83-25208-04	C-163-S	3/8	Sweat ODF	5-7/8	5	3	16	5.2	5
83-25208-05	C-164-S	1/2	Sweat ODF	6	5	3	16	11	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)	6-5/16	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 (except 83-41714-02 which also includes activated carbon)
- 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)	CONNECTION TYPE	OVERALL LENGTH (IN)	BODY LENGTH (IN)	BODY DIA (IN)	CAPACITY (IN ³)	R-22 ARI FLOW CAPACITY @ 1 PSI DROP (TONS)	R-410A ARI FLOW CAPACITY @ 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
83-41714-01	HPC-103-S	3/8	Sweat ODF	5-7/8	4-1/2	3	10	3.4	3.3
83-41714-04	HPC-104-S	1/2	Sweat ODF	5-5/16	4	3	10	4.5	4.4
83-41714-02	HPC-163-S-HH	3/8	Sweat ODF	6-15/16	5-5/8	3	16	3.7	3.6

FILTER DRIERS – LIQUID LINE



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, 680 psig maximum working pressure



PART NO	CONNECT SIZE (IN)	CONNECT TYPE	OVERALL LENGTH (IN)	BODY LENGTH (IN)	BODY DIA (IN)	CAPACITY (IN ³)	R-22 ARI FLOW CAPACITY @ 1 PSI DROP (TONS)	R-410A ARI FLOW CAPACITY @ 1 PSI DROP (TONS)
83-ADK-032S	1/4	Sweat ODF	3-7/8	2-9/16	1-5/8	3	2.5	2.5
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	5-1/4	3-3/16	2-5/8	8	3.4	3.4
83-ADK-083S	3/8	Sweat ODF	5-5/16	3-3/16	2-5/8	8	4.6	4.6
83-ADK-084S	1/2	Sweat ODF	5-3/8	3-3/16	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-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-303S	5/8	Sweat ODF	9	7-1/2	3-1/16	30	5.8	5.8
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-415S	5/8	Sweat ODF	9-7/16	7-5/8	3-11/16	41	17.9	17.9
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	1-5/8	3	2.1	2.1
83-ADK-033	3/8	Flare SAE (M/M)	4-11/16	2-9/16	1-5/8	3	2.9	2.9
83-ADK-033S	3/8	Flare SAE (M/M)	4-1/16	2-9/16	1-5/8	3	3.3	3.3
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	3-3/16	2-5/8	8	2.2	2.2
83-ADK-083	3/8	Flare SAE (M/M)	5-15/16	3-3/16	2-5/8	8	4.7	4.7
83-ADK-084	1/2	Flare SAE (M/M)	6-3/16	3-3/16	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-414	1/2	Flare SAE (M/M)	10	7-5/8	3-11/16	41	10.6	10.6
83-ADK-415	5/8	Flare SAE (M/M)	10-7/16	7-5/8	3-11/16	41	16.9	16.9

FILTER DRIERS – LIQUID LINE



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 DIA (IN)	CAPACITY (IN ³)	R-22 ARI FLOW CAPACITY @ 1 PSI DROP (TONS)	R-410A ARI FLOW CAPACITY @ 1 PSI DROP (TONS)
83-EK-032	1/4	Sweat ODF	4-3/8	2-9/16	1-5/8	3	2.2	2.2
83-EK-032SV	1/4	Sweat ODF	4-3/8	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
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-032S	1/4	Flare SAE (M/M)	3-7/8	2-9/16	1-5/8	3	2.9	2.9
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

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FILTER DRIERS – LIQUID LINE



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



- 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 DIA (IN)	CAPACITY (IN ³)	R-22 ARI FLOW CAPACITY @ 1 PSI DROP (TONS)	R-410A ARI FLOW CAPACITY @ 1 PSI DROP (TONS)
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-053MF	3/8	Flare SAE (M/F)	4-7/32	3	2-1/2	5	3.8	3.8
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-052FM	1/4	Flare SAE (F/M)	4-1/2	3	2-5/8	5	2.3	2.3
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



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 DIA (IN)	CAPACITY (IN ³)	R-22 ARI FLOW CAPACITY @ 1 PSI DROP (TONS)	R-410A ARI FLOW CAPACITY @ 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

FILTER DRIERS – LIQUID LINE



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 DIA (IN)	CAPACITY (IN ³)	R-22 ARI FLOW CAPACITY @ 1 PSI DROP (TONS)	R-410A ARI FLOW CAPACITY @ 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-082S	1/4	Sweat ODF	5-1/4	3-3/4	2-5/8	8	—	—
83-BFK-0825S	5/16	Sweat ODF	5	3-3/4	2-5/8	8	—	—
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
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	4.61	2-5/8	16	7.7	7.7
83-BFK-165	5/8	Flare SAE (M/M)	7-7/16	4.61	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	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

FILTER DRIERS – SUCTION LINE

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; solid copper fittings
- Premium product with activated alumina/activated carbon/molecular sieve desiccant
- Suitable for R-22 and R-410A, 500 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

PART NO	INDUSTRY CODE	CONNECT SIZE (IN)	CONNECTION TYPE	OVERALL LENGTH (IN)	BODY LENGTH (IN)	BODY DIA (IN)	CAPACITY (IN ³)	R-22 ARI FLOW CAPACITY @ 40F & 3 PSI DROP (TONS)	R-410A ARI FLOW CAPACITY @ 40F & 3 PSI DROP (TONS)
83-25153-05	164S	1/2	Sweat ODF	6-1/4	4-3/4	2-1/2	16	2.4	2.9
83-25153-06	165S	5/8	Sweat ODF	6-1/2	4-3/4	2-1/2	16	3.4	2.3
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
83-25153-09	305S	5/8	Sweat ODF	9-7/32	7-7/16	3	30	4.2	5.2
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
83-25153-13	419S	1-1/8	Sweat ODF	10	7-39/64	3/1/2	41	11.3	14.1



PROTECH Suction Line Filter Driers (Compact Shell)



- Solid core; solid copper fittings
- 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

PART NO	INDUSTRY CODE	CONNECT SIZE (IN)	CONNECTION TYPE	OVERALL LENGTH (IN)	BODY LENGTH (IN)	BODY DIA (IN)	CAPACITY (IN ³)	R-22 ARI FLOW CAPACITY @ 40F & 3 PSI DROP (TONS)	R-410A ARI FLOW CAPACITY @ 40F & 3 PSI DROP (TONS)
83-25154-02	14-6S	3/4	Sweat ODF	4-1/4	2-11/16	4-11/16	14	4.9	3.3
83-25154-03	14-7S	7/8	Sweat ODF	4-7/16	2-11/16	4-11/16	14	5.2	3.6



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



- Solid core; solid copper fittings
- 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

PART NO	VENDOR PART NO	CONNECT SIZE (IN)	CONNECTION TYPE	OVERALL LENGTH (IN)	BODY LENGTH (IN)	BODY DIA (IN)	CAPACITY (IN ³)	R-22 ARI FLOW CAPACITY @ 40F & 3 PSI DROP (TONS)	R-410A ARI FLOW CAPACITY @ 40F & 3 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
83-25209-0N	C-166-S-T-HH	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

FILTER DRIERS – SUCTION LINE



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

- Solid core; solid copper fittings
- Premium product with activated alumina/activated carbon/molecular sieve desiccant
- Suitable for R-22 and R-410A, 650 psig maximum working pressure
- Compact design for short lay-in applications
- 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



PART NO	VENDOR PART NO	CONNECT SIZE (IN)	CONNECTION TYPE	OVERALL LENGTH (IN)	BODY LENGTH (IN)	BODY DIA (IN)	CAPACITY (IN ³)	R-22 ARI FLOW CAPACITY @ 40F & 3 PSI DROP (TONS)	R-410A ARI FLOW CAPACITY @ 40F & 3 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; solid copper fittings
- 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



PART NO	CONNECT SIZE (IN)	CONNECT TYPE	OVERALL LENGTH (IN)	BODY LENGTH (IN)	BODY DIA (IN)	CAPACITY (IN ³)	R-22 ARI FLOW CAPACITY @ 40F & 3 PSI DROP (TONS)	R-410A ARI FLOW CAPACITY @ 40F & 3 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



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 DIA (IN)	CAPACITY (IN ³)	R-22 ARI FLOW CAPACITY @ 40F & 3 PSI DROP (TONS)	R-410A ARI FLOW CAPACITY @ 40F & 3 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	31
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-35F5W	5/8	Flare SAE (M/M)	7-1/2	4-3/4	3-1/2	35	4.7	3.2
83-ASF-45F3W	3/8	Flare SAE (M/M)	7-3/4	5-9/16	3-11/16	45	—	—

FILTER DRIERS – SUCTION LINE



Emerson ASK Series Suction Line Filter Driers (Standard Shell)

- Solid core; solid copper fittings
- Premium product with activated alumina/activated carbon/molecular sieve desiccant
- Suitable for R-22 and R-410A, 500 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



PART NO	CONNECT SIZE (IN)	CONNECT TYPE	OVERALL LENGTH (IN)	BODY LENGTH (IN)	BODY DIA (IN)	CAPACITY (IN ³)	R-22 ARI FLOW CAPACITY @ 40F & 3 PSI DROP (TONS)	R-410A ARI FLOW CAPACITY @ 40F & 3 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	7-1/2	Sweat ODF	1-1/8	10-3/16	3-1/8	30	6.5	4.4



Emerson CSFD Series Suction Line Filter Driers (Compact Shell)

- Solid core; solid copper fittings
- 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



PART NO	CONNECT SIZE (IN)	CONNECT TYPE	OVERALL LENGTH (IN)	BODY LENGTH (IN)	BODY DIA (IN)	CAPACITY (IN ³)	R-22 ARI FLOW CAPACITY @ 40F & 3 PSI DROP (TONS)	R-410A ARI FLOW CAPACITY @ 40F & 3 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



Emerson SFD Series Suction Line Filter Driers (Standard Shell)

- Beaded core; solid copper fittings
- 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



PART NO	CONNECT SIZE (IN)	CONNECT TYPE	OVERALL LENGTH (IN)	BODY LENGTH (IN)	BODY DIA (IN)	CAPACITY (IN ³)	R-22 ARI FLOW CAPACITY @ 40F & 3 PSI DROP (TONS)	R-410A ARI FLOW CAPACITY @ 40F & 3 PSI DROP (TONS)
83-SFD-08S3V	3/8	Sweat ODF	5-5/16	3-1/8	3-11/16	8	—	—
83-SFD-08S5V	5/8	Sweat ODF	3-15/16	3-1/8	3-11/16	8	—	—
83-SFD-08S6V	3/4	Sweat ODF	4-5/16	3-1/8	3-11/16	8	—	—
83-SFD-13S3V	3/8	Sweat ODF	4	3-11/16	3-11/16	13	2.2	1.5
83-SFD-13S4V	1/2	Sweat ODF	4-15/16	3-11/16	3-11/16	13	3.5	2.4
83-SFD-13S5V	5/8	Sweat ODF	3-15/16	3-11/16	3-11/16	13	4.9	3.3
83-SFD-13S6V	3/4	Sweat ODF	4	3-11/16	3-11/16	13	6.4	4.4
83-SFD-13S7V	7/8	Sweat ODF	4-1/4	3-11/16	3-11/16	13	7.2	4.9
83-SFD-27S6V	3/4	Sweat ODF	5-3/4	3-11/16	3-11/16	27	6.4	4.4
83-SFD-27S7V	7/8	Sweat ODF	6	3-11/16	3-11/16	27	7.5	5.1
83-SFD-27S9V	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-08F4V	1/2	Flare SAE (M/M)	5-3/4	3-1/8	3-11/16	8	—	—
83-SFD-13F3V	3/8	Flare SAE (M/M)	5-1/2	3-11/16	3-11/16	13	1.4	1.0
83-SFD-13F4V	1/2	Flare SAE (M/M)	3-15/16	3-11/16	3-11/16	13	2.4	1.6
83-SFD-13F5V	3-11/16	Flare SAE (M/M)	5/8	6-1/8	3-11/16	13	1.4	1.0

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 DIA (IN)	REFRIGERANT TYPE	MAX WORKING PRESSURE (PSIG)
PR25083-3-2C	1/4	Sweat ODF	4-5/16	3-5/16	2-1/2	HCFC-R-22, HFC-R-410A	500
PR25083-2-3C	3/8	Sweat ODF	3	1-7/8	2-1/2	HCFC-R-22, HFC-R-410A	500
PM25049-3-3C	3/8	Sweat ODF	4-3/8	3-3/8	2-1/2	HCFC-R-22, HFC-R-410A	500
PR25083-2-4C	1/2	Sweat ODF	3	2-5/8	2-1/2	HCFC-R-22, HFC-R-410A	500
PM25049-3-4C	1/2	Sweat ODF	4-1/2	3-1/4	2-1/2	HCFC-R-22, HFC-R-410A	500
PR3083-4-3C	1/2	Sweat ODF	5	4	3	HCFC-R-22, HFC-R-410A	500
83-21817-81	1/2	Sweat ODF	6	5	3	HCFC-R-22, HFC-R-410A	680
PR25083-3-4C	1/2	Sweat ODF	6	5-1/16	2-1/2	HCFC-R-22, HFC-R-410A	500
PM3083-5-4C	1/2	Sweat ODF	9-1/8	8-1/8	3	HCFC-R-22, HFC-R-410A	500
PR3083-8-6C	7/8	Sweat ODF	10-5/16	8-15/16	3	HCFC-R-22, HFC-R-410A	500
83-40288-08	1-1/8	Sweat ODF	9-3/4	7-7/8	3	HCFC-R-22, HFC-R-410A	650
PR35083-8-9C	1-1/8	Sweat ODF	10-7/8	8-7/16	3-1/2	HCFC-R-22, HFC-R-410A	500



Mufflers – Steel Shell (Suction Line)

PART NO	CONNECT SIZE (IN)	CONNECT TYPE	OVERALL LENGTH (IN)	SYSTEM CUTOUT LENGTH (IN)	BODY DIA (IN)	REFRIGERANT 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



Muffler – Spun Copper Shell

PART NO	CONNECT SIZE (IN)	CONNECT TYPE	OVERALL LENGTH (IN)	SYSTEM CUTOUT LENGTH (IN)	BODY DIA (IN)	REFRIGERANT TYPE	MAX WORKING PRESSURE (PSIG)
AE-57992-04	1/2	Sweat ODF	4-3/4	4-1/4	1-5/8	HCFC-R-22, HFC-R-410A	500



Muffler – Spun Copper Shell with Sensor Mounting Hole

PART NO	CONNECT SIZE (IN)	CONNECT TYPE	OVERALL LENGTH (IN)	SYSTEM CUTOUT LENGTH (IN)	BODY DIA (IN)	SENSOR MOUNT HOLE DIA (IN)	REFRIGERANT TYPE	MAX WORKING PRESSURE (PSIG)
AE-57099-04	1/2	Sweat ODF	4-3/4	4-1/4	1-5/8	1/8	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



Muffler – Spun Copper Shell with Check Valve

PART NO	CONNECT SIZE (IN)	CONNECT TYPE	OVERALL LENGTH (IN)	SYSTEM CUTOUT LENGTH (IN)	BODY DIA (IN)	REFRIGERANT 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



Accumulators – Parker PA Series



- 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 with 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
- Protective screen and orifice assembly protects against foreign particles and contaminants from affecting metering function
- Solid copper connections
- Powder paint coating exceeds ASTM 500 hour salt spray tests
- 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 OUTSIDE DIAMETER (IN)	R-22 HOLDING CAPACITY AT 40°F (OZ)	R-410A HOLDING CAPACITY AT 40°F (OZ)
PA3060-10-5	5/8	10-3/8	3	35	31
PA3060-10-4	1/2	10-3/8	3	35	31
PA3060-15-6	3/4	15	3	54	48
PA3060-15-5	5/8	15	3	55	49
PA4065-9-6C	3/4	9-5/8	4	58	52
PA4065-9-5C	5/8	9-5/8	4	60	53
PA5083-9-7C	7/8	9-5/8	5	86	77
PA5083-9-6C	3/4	9-5/8	5	89	79
PA5083-11-7C	7/8	11-5/16	5	108	96
PA5083-11-6C	3/4	11-5/16	5	111	99
PA5083-12-7C	7/8	12-7/8	5	125	111
PA5083-15-7C	7/8	15-3/4	5	156	139
PA5083-17-7C	7/8	17-1/4	5	179	159
PA6125-15-9C	1-1/8	15	6	211	188
PA6125-15-11C	1-3/8	15-1/3	6	214	190
PA6125-18-9C	1-1/8	18	6	264	235
PA6125-18-11C	1-3/8	18	6	267	238
PA6125-20-11C	1-3/8	20-1/4	6	302	269

Accumulator Kits with Fittings

- These kits are 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	PA5083-9-6C
83-22272-94	PA5083-11-7C
83-22272-95	PA5083-12-7C
83-22459-91	PA5083-17-7C
83-22537-73	PA3060-15-5

REVERSING VALVES



Reversing Valves with Coil

PART NO	NOM CAPACITY R-22 AND R-410A (TONS)	R-22 CAPACITY RANGE (TONS)	R-410 CAPACITY RANGE (TONS)	SUCTION LINE CONNECT SIZE - ID (IN)	DISCHARGE LINE CONNECT SIZE - ID (IN)	COIL INCLUDED?
61-102498-04	2	1.0 to 2.5	1.3 to 2.5	5/8	1/2	Yes – 24V
61-102498-06	6	1.0 to 5.5	1.3 to 6.7	7/8	1/2	Yes – 24V
61-102498-02	6	1.0 to 5.5	1.3 to 6.7	3/4	1/2	Yes – 24V
61-102498-08	10	4.5 to 9.5	5.7 to 11.7	1-1/8	7/8	Yes – 24V
61-102498-03	10	4.5 to 8.5	5.7 to 10.1	7/8	1/2	Yes – 24V



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

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)
 - Max fluid temperature: 250°F
 - Max working pressure: 500 psig
 - Max operating pressure differential: 300 psig
- Coils for Solenoid Valves sold separately

NOM LIQUID CPTY USING R-22 (TONS)	VALVE SERIES
1.3	61- 100RB2 xxxVLC
3.1	61- 200RB2 xxxVLC
4.8	61- 200RB3 xxxVLC
5.6	61- 200RB4 xxxVLC
8.2	61- 200RB5 xxxVLC
10.0	61- 200RB6 xxxVLS
15.6	61- 200RB7 xxxVLC or 240RA8 xxxVLC
23.3	61- 240RA9 xxxVLC (5/8 inch connection)
30.5	61- 200RB9 xxxVLC or 61-240RA9 xxxVLC (1-1/8 inch connection)
58.0	61- 240RA16 xxxVLC



Solenoid Valves – Emerson 100RB Series

- Direct-acting, normally closed
- Uni-directional only. Cannot be converted to bi-flow operation



PART NO	CONNECT SIZE (IN)	CONNECT TYPE	OVERALL LENGTH (IN)	VALVE BODY OPTION	CAPACITY R-22 (TONS)
61-100RB2S2VLC	1/4	Sweat ODF	4-5/8	Plain	1.27
61-100RB2S3VLC	3/8	Sweat ODF	4-5/8	Plain	1.27
61-100RB2S4VLC	1/2	Sweat ODF	4-5/8	Plain	1.27
61-100RB2F2VLC	1/4	Flare SAE	2-7/8	Plain	1.27
61-100RB2F3VLC	3/8	Flare SAE	3-1/4	Plain	1.27

SOLENOID VALVES



Solenoid Valves – Emerson 200RB Series

- 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
 - Mounting Stud (61-200RBxTxxxVLC and 61-200RBxMxxxVLC)



PART NO	CONNECT SIZE (IN)	CONNECT TYPE	OVERALL LENGTH (IN)	VALVE BODY OPTION	CAPACITY R-22 (TONS)
61-200RB4T3MVLC	3/8	Sweat ODF w/Ext Ends	4-5/8	Manual Stem	5.6
61-200RB4T3TVLC	3/8	Sweat ODF w/Ext Ends	4-5/8	Mounting Stud	5.6
61-200RB2T3VLC	3/8	Sweat ODF w/Ext Ends	4-5/8	Plain	3.1
61-200RB3T3VLC	3/8	Sweat ODF w/Ext Ends	4-5/8	Plain	4.8
61-200RB5T4MVLC	1/2	Sweat ODF w/Ext Ends	5	Manual Stem	8.2
61-200RB5T4TVLC	1/2	Sweat ODF w/Ext Ends	5	Mounting Stud	8.2
61-200RB6T4TVLC	1/2	Sweat ODF w/Ext Ends	5	Mounting Stud	10.0
61-200RB4T4TVLC	1/2	Sweat ODF w/Ext Ends	5	Mounting Stud	5.6
61-200RB3T4VLC	1/2	Sweat ODF w/Ext Ends	4-5/8	Plain	4.8
61-200RB4T4VLC	1/2	Sweat ODF w/Ext Ends	4	Plain	5.6
61-200RB5T5MVLC	5/8	Sweat ODF w/Ext Ends	6-1/2	Manual Stem	8.2
61-200RB6T5TVLC	5/8	Sweat ODF w/Ext Ends	6-1/2	Mounting Stud	10.0
61-200RB7T5TVLC	5/8	Sweat ODF w/Ext Ends	6-7/8	Mounting Stud	15.6
61-200RB5T5TVLC	5/8	Sweat ODF w/Ext Ends	6-1/2	Mounting Stud	8.2
61-200RB5S4TVLC	1/2	Sweat ODF	2-3/8	Mounting Stud	8.2
61-200RB5S5MVLC	5/8	Sweat ODF	2-3/8	Manual Stem	8.2
61-200RB6S5TVLC	5/8	Sweat ODF	2-3/8	Mounting Stud	10.0
61-200RB3F3TVLC	3/8	Flare SAE	3-1/8	Mounting Stud	4.8
61-200RB4F3TVLC	3/8	Flare SAE	2-15/16	Mounting Stud	5.6
61-200RB3F3VLC	3/8	Flare SAE	3-1/8	Plain	4.8
61-200RB5F4MVLC	1/2	Flare SAE	3-5/16	Manual Stem	8.2



Solenoid Valves – Emerson 240RA Series

- Pilot-operated, 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 (Mounting Stud (61-240RAxTxxxVLC)
 - Mounting Stud (61-240RAxMxxxVLC)



PART NO	CONNECT SIZE (IN)	CONNECT TYPE	OVERALL LENGTH (IN)	VALVE BODY OPTION	CAPACITY R-22 (TONS)
61-240RA9T5MVLC	5/8	Sweat ODF w/Ext Ends	6-7/8	Manual Stem	23.3
61-240RA8T5MVLC	5/8	Sweat ODF w/Ext Ends	6-7/8	Manual Stem	15.6
61-240RA8T5TVLC	5/8	Sweat ODF w/Ext Ends	6-7/8	Mounting Stud	15.6
61-240RA9T7MVLC	7/8	Sweat ODF w/Ext Ends	7-1/8	Manual Stem	30.5
61-240RA8T7MVLC	7/8	Sweat ODF w/Ext Ends	7-1/8	Manual Stem	15.6
61-240RA9T7TVLC	7/8	Sweat ODF w/Ext Ends	7-1/8	Mounting Stud	30.5
61-240RA9T9MVLC	1-3/8	Sweat ODF w/Ext Ends	8-1/2	Manual Stem	30.5
61-240RA16T11MVLC	1-3/8	Sweat ODF w/Ext Ends	11	Manual Stem	95.4



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



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

BALL VALVES



- Forged brass body with sweat fittings, 100% copper connections
- Reliable leak-free hermetic design
- Full internal ports up to 2-1/8 inches
- Suitable for R-22 and R-410A, 680 psig maximum working pressure
- Suitable for bi-flow operations
- Operating temperature range: -40°F to 300°F
- Optional access valve allows pressure measurement reading



PART NO	VENDOR PART NO	CONNECT SIZE (IN)	OVERALL LENGTH (IN)	PORT SIZE (IN)	ACCESS VALVE
83-ABV-2A	064384	1/4	5-1/2	1/2	Included
83-ABV-2	064383	1/4	5-1/2	1/2	Not Included
83-ABV-3A	ABV-3A	3/8	5-1/2	1/2	Included
83-ABV-3	ABV-3	3/8	5-1/2	1/2	Not Included
83-ABV-4A	ABV-4A	1/2	6-3/8	1/2	Included
83-ABV-4	ABV-4	1/2	6-3/8	1/2	Not Included
83-ABV-5A	ABV-5A	5/8	6-3/8	1/2	Included
83-ABV-5	ABV-5	5/8	6-3/8	1/2	Not Included
83-ABV-7A	ABV-7A	7/8	7-1/2	3/4	Included
83-ABV-7	ABV-7	7/8	7-1/2	3/4	Not Included
83-ABV-9A	ABV-9A	1-1/8	9-1/8	1	Included
83-ABV-9	ABV-9	1-1/8	9-1/8	1	Not Included
83-ABV-11A	ABV-11A	1-3/8	10	1-1/4	Included
83-ABV-11	ABV-11	1-3/8	10	1-1/4	Not Included
83-ABV-13A	ABV-13A	1-5/8	11	1-1/2	Included
83-ABV-13	ABV-13	1-5/8	11	1-1/2	Not Included
83-ABV-17A	ABV-17A	2-1/8	11-3/4	2	Included
83-ABV-17	ABV-17	2-1/8	11-3/4	2	Not Included
83-ABV-21A	ABV-21A	2-5/8	11-3/4	2	Included
83-ABV-21	ABV-21	2-5/8	11-3/4	2	Not Included
83-ABV-25A	ABV-25A	3-1/8	11-3/4	2	Included
83-ABV-25	ABV-25	3-1/8	11-3/4	2	Not Included

BRASS FITTINGS – HVAC SPECIFIC



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 for use with core wrench

PART NO	BODY	FITTING 1 SIZE (IN)	FITTING 1 TYPE	FITTING 2 SIZE (IN)	FITTING 2 TYPE	BRANCH FITTING SIZE (IN)	BRANCH FITTING TYPE	QTY PER PACKAGE
83-CC8414-2PK	Copper Tube	1/4	Sweat ODF	1/4	Sweat ODF	1/4	SAE Flare (M)	2
83-CC8416-2PK	Copper Tube	5/16	Sweat ODF	5/16	Sweat ODF	1/4	SAE Flare (M)	2
83-CC8438-2PK	Copper Tube	3/8	Sweat ODF	3/8	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
83-CC8434-2PK	Copper Tube	3/4	Sweat ODF	3/4	Sweat ODF	1/4	SAE Flare (M)	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 FITTING SIZE (IN)	BRANCH FITTING TYPE	QTY PER PACKAGE
83-CD9640-1PK	Copper Tube	1/4	SAE Flare (M)	1/4	SAE Flare (M)	1/4	SAE Flare (F)	1

BRASS FITTINGS – HVAC SPECIFIC



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 FITTING SIZE (IN)	BRANCH FITTING TYPE	DEPRESSOR TIP INCLUDED	DEPRESSOR TIP LOCATION	QTY PER PACKAGE
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
83-CD9603-2PK	Forged Brass	1/4	SAE Flare (M)	1/4	SAE Flare (M)	1/4	SAE Flare (F)	Yes	Branch	2



Straight Adapters/Couplers – Flare to Sweat

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



Straight Adapters/Couplers – Flare to NPT

PART NO	FITTING 1 SIZE (IN)	FITTING 1 TYPE	FITTING 2 SIZE (IN)	FITTING 2 TYPE	QTY PER PACKAGE
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



Straight Adapters/Couplers – Flare to Swivel Nut

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



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 SIZE - OD (IN)	QTY PER PACKAGE
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 SIZE - OD (IN)	QTY PER PACKAGE
83-CD2380-2PK	3/8	2



Core Container/Wrench

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

PART NO	QTY PER PACKAGE
83-CD3813-1PK	1

BRASS FITTINGS – HVAC SPECIFIC



Core Chaser/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 PER PACKAGE
83-CD3800-1PK	1



Valve Cores

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

- 83-CD4460-6PK – manufactured by Dill
- 83-CD4450-6PK – manufactured by Schrader/Bridgeport

PART NO	QTY PER PACKAGE
83-CD4450-6PK	6
83-CD4460-6PK	6



Oil Tap

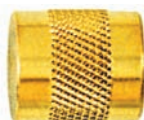
- Installed on a semi-hermetic compressor for changing of oil and testing procedures
- Internal pressure helps discharge oil from the crankcase and acid test can be made while the compressor is running
- Allows addition by vacuum or removal by pressure of oil while compressor is running
- Detects hazardous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

PART NO	QTY PER PACKAGE
83-CD1808-1PK	1



Protective Cap – Brass with Core Removal Tool

PART NO	QTY PER PACKAGE
83-CD2250-6PK	6



Protective Cap – Brass without Core Removal Tool

PART NO	QTY PER PACKAGE
83-CD2245-6PK	6



Protective Cap – Nylon

PART NO	QTY PER PACKAGE
83-CD2210-25PK	25



Service Valves – Saddle Mount

PART NO	FITS TUBING SIZE - OD (IN)	QTY PER PACKAGE
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

BRASS FITTINGS – HVAC SPECIFIC



Service Valves – Copper Tube (Premium)

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

PART NO	FITS TUBING SIZE - OD (IN)	QTY PER PACKAGE
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 SIZE - OD (IN)	QTY PER PACKAGE
83-CD1010-6PK	1/8	6
803001	1/8	6
803003	1/4	6
803004	5/16	3
803005	3/8	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 SIZE - OD (IN)	QTY PER PACKAGE
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

BRASS FITTINGS – HVAC AND GENERAL PURPOSE



Brass Straight Fittings – Internal Flare to External Flare

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



Brass Straight Fittings – Internal Flare to Internal Flare

PART NO	INLET FLARE SAE SIZE (IN)	OUTLET FLARE SAE SIZE (IN)	CASE QTY	CASE REQUIRED
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)	EXTENSION TUBE - ID (IN)	CASE QTY	CASE REQUIRED
82-A15725	1/4	1/4	25	Yes
82-A15726	3/8	3/8	25	Yes
82-A15727	1/2	1/2	25	Yes
82-A15728	5/8	5/8	10	Yes

BRASS FITTINGS – HVAC AND GENERAL PURPOSE



Brass Straight Fittings – External Flare to External Flare

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

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



Brass Straight Fittings – External Flare to External NPTFE

PART NO	FLARE SAE SIZE (IN)	NPTFE SIZE (IN)	CASE QTY	CASE REQUIRED
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



Brass Elbows – 90 Degree

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



Copper Gaskets

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



Brass Forged Flare Tube Nuts

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



Brass Sealing Cap – Serrated Head Flare Fitting

PART NO	FLARE SAE SIZE (IN)
82-A16447	1/4



Brass Sealing Caps – Hex Head Flare Fitting

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



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 REQUIRED
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)	NPTFE SIZE (IN)	CASE QTY	CASE REQUIRED
82-A06330	1/4	1/4	1/4	25	Yes

COPPER FITTINGS



Copper Bushings

PART NO	HVACR FITTING OUTLET - ID (IN)	HVACR FITTING INLET - OD (IN)	PUMBING FITTING OUTLET - ID (IN)	PLUMBING FITTING INLET - OD	CASE QTY	CASE REQUIRED
82-21801-08	3/8	1/2	1/4	3/8	100	No
82-21801-10	1/2	5/8	3/8	1/2	100	No
82-21801-12	5/8	3/4	1/2	5/8	50	No
82-21801-06	5/8	7/8	1/2	3/4	50	No
82-21801-14	3/4	7/8	5/8	3/4	50	No



Copper Couplings

PART NO	HVACR FITTING OUTLET - ID (IN)	HVACR FITTING INLET - OD (IN)	PUMBING FITTING OUTLET - ID (IN)	PLUMBING FITTING INLET - OD	CASE QTY	CASE REQUIRED
82-21803-06	3/8	3/8	1/4	1/4	50	No
82-21803-08	1/2	1/2	3/8	3/8	50	No
82-21803-10	5/8	5/8	1/2	1/2	100	No
82-21803-12	3/4	3/4	5/8	5/8	50	No
82-21803-14	7/8	7/8	3/4	3/4	50	No
82-21803-18	1-1/8	1-1/8	1	1	25	No
82-21803-22	1-3/8	1-3/8	1-1/4	1-1/4	25	No



Copper Reducer Couplings

PART NO	HVACR FITTING OUTLET - ID (IN)	HVACR FITTING INLET - OD (IN)	PUMBING FITTING OUTLET - ID (IN)	PLUMBING FITTING INLET - OD	CASE QTY	CASE REQUIRED
82-21804-08	3/8	1/2	1/4	3/8	50	No
82-21804-10	1/2	5/8	3/8	1/2	100	No
82-21804-12	5/8	3/4	1/2	5/8	100	No
82-21804-14	3/4	7/8	5/8	3/4	100	No
82-21804-22	7/8	1-3/8	3/4	1-1/4	10	No
82-21804-18	7/8	1-1/8	3/4	1	25	No
82-21804-32	1-1/8	1-3/8	1	1-1/4	10	No



Copper 90° Street Elbows (Short Radius)

PART NO	HVACR FITTING INLET ID (IN)	PLUMBING FITTING INLET ID (IN)	CASE QTY	CASE REQUIRED
82-21802-08	1/2	3/8	50	No
82-21802-10	5/8	1/2	50	No
82-21802-12	3/4	5/8	25	No
82-21802-14	7/8	3/4	25	No
82-21802-18	1-1/8	1	25	No
82-21802-22	1-3/8	1-1/4	25	No



Copper 45° Street Elbows (Short Radius)

PART NO	HVACR FITTING INLET ID (IN)	PLUMBING FITTING INLET ID (IN)	CASE QTY	CASE REQUIRED
82-21802-28	1/2	3/8	100	No
82-21802-30	5/8	1/2	50	No
82-21802-32	3/4	5/8	50	No
82-21802-34	7/8	3/4	25	No
82-21802-38	1-1/8	1	25	No
82-21802-42	1-3/8	1-1/4	10	No

SERVICE VALVES



- Frontseating valves; isolate sections of a system for servicing and provide 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

PART NO	CONNECT SIZE CHARGE PORT SIDE (IN)	CONNECT TYPE CHARGE PORT SIDE	CONNECT SIZE - OPP CHARGE PORT SIDE (IN)	CONNECT TYPE - OPP CHARGE PORT SIDE	OVERALL LENGTH (IN)	CHARGE PORT LOCATION
61-21368-05	3/8	Sweat ODF	3/8	Sweat ODF	4-5/8	Side
61-21368-01	3/8	Sweat ODF	3/8	Sweat ODM	4-5/8	Side
61-21368-12	1/2	Sweat ODF	1/2	Sweat ODF	5	Side
61-21368-06	5/8	Sweat ODF	5/8	Sweat ODF	5	Bottom
61-21368-09	5/8	Sweat ODF	5/8	Sweat ODM	5	Side
61-21368-14	5/8	Sweat ODF	5/8	Sweat ODF	5	Side
61-21368-23	3/4	Sweat ODF	5/8	Sweat ODF	5	Bottom
61-21368-17	3/4	Sweat ODF	5/8	Sweat ODF	5	Side
61-21368-07	3/4	Sweat ODF	3/4	Sweat ODF	5	Bottom
61-21368-15	3/4	Sweat ODF	3/4	Sweat ODF	5	Side
61-101160-21	3/4	Sweat ODF	7/8	Sweat ODF	5-1/8	Side
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
61-21368-16	7/8	Sweat ODF	7/8	Sweat ODF	5-1/8	Side

CAPILLARY TUBE ASSEMBLIES



Capillary Tube Assemblies – Formed Flat Distributor Type

PART NO	DISTRIBUTOR INLET SIZE - ID (IN)	CAPILLARY TUBE QTY	CAPILLARY TUBE LENGTH (IN)	CAPILLARY TUBE ID (IN)	CAPILLARY TUBE OD (IN)
AS-21821-71	3/8	2	28	0.042	0.093
AS-21821-50	3/8	2	44	0.049	0.999
AS-21821-32	3/8	2	32	0.054	0.106
AS-21821-31	3/8	2	40	0.059	0.112
AS-21821-04	3/8	2	45	0.064	0.125
AS-21821-38	3/8	2	50	0.064	0.125
AS-21821-39	3/8	3	20	0.042	0.093
AS-21821-41	3/8	3	18	0.049	0.999
AS-21821-70	3/8	3	30	0.049	0.999
AS-21821-34	3/8	3	36	0.049	0.999
AS-21821-48	3/8	3	40	0.049	0.999
AS-21821-09	3/8	3	32	0.054	0.106
AS-21821-33	3/8	3	30	0.064	0.125
AS-21821-11	3/8	3	50	0.064	0.125
AS-21821-06	3/8	3	45	0.075	0.125
AS-21821-42	3/8	4	20	0.049	0.999
AS-21821-44	3/8	4	26	0.049	0.999
AS-21821-21	3/8	4	27	0.049	0.999
AS-21821-27	3/8	4	30	0.049	0.999
AS-21821-20	3/8	4	30	0.049	0.999
AS-21821-66	3/8	4	36	0.049	0.999
AS-21821-01	3/8	4	36	0.049	0.999
AS-21821-43	3/8	4	44	0.049	0.999
AS-21821-05	3/8	4	30	0.054	0.106
AS-21821-36	3/8	4	32	0.054	0.106
AS-21821-19	3/8	5	30	0.049	0.999
AS-21821-60	3/8	6	20	0.042	0.093
AS-21821-53	3/8	6	20	0.049	0.999
AS-21821-29	3/8	6	30	0.049	0.999
AS-21821-03	3/8	6	40	0.049	0.999

(continued on next page)

CAPILLARY TUBE ASSEMBLIES

Capillary Tube Assemblies – Formed Flat Distributor Type CONTINUED



PART NO	DISTRIBUTOR INLET SIZE - ID (IN)	CAPILLARY TUBE QTY	CAPILLARY TUBE LENGTH (IN)	CAPILLARY TUBE ID (IN)	CAPILLARY TUBE OD (IN)
AS-21821-24	3/8	6	24	0.054	0.106
AS-21821-49	3/8	6	32	0.059	0.112
AS-21821-69	3/8 ID	6	40	0.059	0.112
AS-21821-72	7/8 ID	6	28, 25, 17, 13, 9, 7	0.311	0.375
AS-21821-65	3/8 ID	7	45	0.054	0.106
AS-21821-25	3/8 ID	8	24	0.049	0.999
AS-21821-02	3/8 ID	8	24	0.049	0.999
AS-21821-22	3/8 ID	8	30	0.049	0.999
AS-21821-47	3/8 ID	8	32	0.049	0.999
AS-21821-28	3/8 ID	8	36	0.049	0.999
AS-21821-63	3/8 ID	8	32	0.054	0.106
AS-21821-80	3/8 ID	8	40	0.054	0.106
AS-21821-59	3/8 ID	8	45	0.054	0.106
AS-21821-93	1/2 OD	8	30, 60	0.127	0.187
AS-21821-90	7/8 OD	8	21	0.194	0.250
AS-21821-78	3/8 ID	9	26	0.054	0.106
AS-21821-76	3/8 ID	9	40	0.059	0.112
AS-21821-84	3/8 ID	10	23	0.049	0.999
AS-21821-13	3/8 ID	10	24	0.049	0.999
AS-21821-57	3/8 ID	10	26	0.049	0.999
AS-21821-85	3/8 ID	10	28	0.049	0.999
AS-21821-52	3/8 ID	10	32	0.049	0.999
AS-21821-58	3/8 ID	10	36	0.049	0.999
AS-21821-86	3/8 ID	11	26	0.049	0.999
AS-21821-87	3/8 ID	11	28	0.049	0.999
AS-21821-88	3/8 ID	11	38	0.049	0.999
AS-21821-35	3/8 ID	11	40	0.049	0.999
AS-21821-89	3/8 ID	11	26	0.054	0.106
AS-21821-81	1/2 OD	12	40	0.054	0.106
AS-21821-62	7/8 OD	14	32	0.131	0.187
AS-21821-61	1-1/8 OD	18	24	0.127	0.187
AS-21821-37	1-1/8 OD	18	24	0.127	0.187
AS-21821-18	3/8 ID	20	24	0.049	0.999

Capillary Tube Assemblies – Machined Round Distributor Type



PART NO	DISTRIBUTOR INLET SIZE - ID (IN)	CAPILLARY TUBE QTY	CAPILLARY TUBE LENGTH (IN)	CAPILLARY TUBE ID (IN)	CAPILLARY TUBE OD (IN)
AS-21821-30	5/8	3	27	0.127	0.187
AS-21821-51	5/8	6	18	0.127	0.187
AS-21821-54	5/8	6	27	0.127	0.187
83-100632-15	3/8	6	24	0.049	0.094
83-100632-16	3/8	6	22	0.054	0.098
83-100632-17	3/8	6	24	0.054	0.098
83-100632-01	3/8	6	26	0.054	0.098
83-100632-09	3/8	6	34	0.054	0.098
83-100632-03	3/8	6	30	0.059	0.112
83-100632-19	3/8	6	34	0.064	0.125
AS-21821-92	5/8	8	18	0.127	0.187
AS-21821-79	5/8	8	27	0.127	0.187
83-100632-18	3/8	9	26	0.054	0.098
83-100632-02	3/8	9	34	0.054	0.098
83-100632-20	3/8	9	40	0.059	0.112
83-100632-11	3/8	10	20	0.042	0.088
83-100632-12	3/8	11	26	0.042	0.088
83-100632-22	3/8	11	28	0.049	0.094
83-100632-21	3/8	11	38	0.049	0.094

FLOWCHECK DISTRIBUTOR ASSEMBLIES



Flowcheck Distributor Assemblies with Bulb Strainer

- Includes bulb strainer (3/4 inch diameter x 3-1/2 inch length, with 3/8 inch inside diameter inlet opening)
- All capillary tubes are 0.125 inch outside diameter and 0.095 inch inside diameter.

PART NO	NO OF CAPILLARY TUBES	CAPILLARY TUBE LENGTH (IN)	PISTON BORE (IN)	PISTON PART NO
61-101302-39	2	17.810	0.0360	61-22613-36
61-101302-40	2	17.810	0.0400	61-22613-40
61-101302-41	2	17.810	0.0410	61-22613-41
61-26113-02	2	17.810	N/A	Not Included
61-26113-03	3	11.810	N/A	Not Included
61-101303-47	3	17.810	0.0469	61-22613-47
61-101303-49	3	17.810	0.0492	61-22613-49
61-101303-53	3	17.810	0.0531	61-22613-53
61-101303-55	3	17.810	0.0550	61-22613-55
61-101303-57	3	17.810	0.0571	61-22613-57
61-101303-09	3	17.810	0.0995	61-22613-09
61-26113-13	3	17.810	N/A	Not Included
61-26113-04	4	11.810	N/A	Not Included
61-101304-59	4	17.810	0.0591	61-22613-59
61-101304-70	4	17.810	0.0700	61-22613-70
61-101304-12	4	17.810	0.1200	61-22613-12
61-101304-14	4	17.810	0.1405	61-22613-14
61-26113-14	4	17.810	N/A	Not Included
61-26113-05	5	11.810	N/A	Not Included
61-26113-06	6	11.810	N/A	Not Included
61-101306-59	6	17.810	0.0591	61-22613-59
61-101306-73	6	17.810	0.0730	61-22613-73
61-26113-16	6	17.810	N/A	Not Included
61-26113-18	8	17.810	N/A	Not Included
61-26110-14	10	13.810	0.1405	61-22613-14
61-26110-15	10	13.810	0.1570	61-22613-15
61-26110-17	10	13.810	0.1719	61-22613-17
61-26113-10	10	13.810	N/A	Not Included
61-26113-20	10	17.810	N/A	Not Included
61-26113-33	10	23.810	N/A	Not Included
61-26113-34	12	23.810	N/A	Not Included



Flowcheck Distributor Assemblies without Bulb Strainer

- All capillary tubes are 0.125 inch outside diameter and 0.095 inch inside diameter.

PART NO	NO OF CAPILLARY TUBES	CAPILLARY TUBE LENGTH (IN)	PISTON BORE (IN)	PISTON PART NO
61-102103-12	3	11.810	0.1200	61-22613-12
61-102104-14	4	11.810	0.1405	61-22613-14
61-102106-12	6	15.810	0.1200	61-22613-12
61-102106-14	6	15.810	0.1405	61-22613-14
61-102108-14	8	15.810	0.1405	61-22613-14
61-102108-17	8	15.810	0.1719	61-22613-17

FLOWCHECK PISTONS



61-22119 Series

- Three ribs, 1/16 in. wide x 1/16 in. high, parallel to length, evenly spaced around piston outside diameter.

PART NO	ORIFICE DIAMETER (IN)	OVERALL LENGTH (IN)	PISTON OUTER DIAMETER (IN)
61-22119-57	0.0570	0.5000	0.4580
61-22119-65	0.0650	0.5000	0.4580
61-22119-68	0.0689	0.5000	0.4580
61-22119-73	0.0730	0.4820	0.4580
61-22119-76	0.0760	0.4820	0.4580



61-25414 Series

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

PART NO	ORIFICE DIAMETER (IN)	OVERALL LENGTH (IN)	PISTON OUTER DIAMETER (IN)
61-25414-39	0.0390	0.5000	0.4585
61-25414-40	0.0400	0.5000	0.4585
61-25414-41	0.0410	0.5000	0.4585
61-25414-42	0.0420	0.5000	0.4585
61-25414-43	0.0430	0.5000	0.4585
61-25414-47	0.0469	0.5000	0.4585
61-25414-49	0.0492	0.5000	0.4585
61-25414-51	0.0512	0.5000	0.4585
61-25414-53	0.0531	0.5000	0.4585
61-25414-55	0.0550	0.5000	0.4585
61-25414-57	0.0571	0.5000	0.4585
61-25414-59	0.0591	0.5000	0.4585
61-25414-61	0.0610	0.5000	0.4585
61-25414-62	0.0625	0.5000	0.4585
61-25414-63	0.0630	0.5000	0.4585
61-25414-65	0.0650	0.5000	0.4585
61-25414-67	0.0670	0.5000	0.4585
61-25414-68	0.0689	0.5000	0.4585
61-25414-70	0.0700	0.5000	0.4585
61-25414-71	0.0709	0.5000	0.4585
61-25414-73	0.0730	0.5000	0.4585
61-25414-74	0.0748	0.5000	0.4585
61-25414-76	0.0760	0.5000	0.4585
61-25414-78	0.0781	0.4800	0.4585
61-25414-80	0.0807	0.4800	0.4585
61-25414-82	0.0820	0.4800	0.4585
61-25414-84	0.0846	0.4800	0.4585
61-25414-86	0.0860	0.4800	0.4585
61-25414-88	0.0886	0.4800	0.4585
61-25414-89	0.0890	0.4800	0.4585
61-25414-90	0.0906	0.4800	0.4585
61-25414-93	0.0925	0.4800	0.4585
61-25414-94	0.0938	0.4800	0.4585
61-25414-09	0.0990	0.4800	0.4585
61-25414-11	0.1100	0.4800	0.4585
61-25414-12	0.1200	0.4550	0.4585
61-25414-14	0.1400	0.4550	0.4585
61-25414-15	0.1570	0.4550	0.4585
61-25414-17	0.1720	0.4550	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
83-41635-01	1/2	Sweat ODM	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

