

Fuel and Oil Quick Drain Valves

- Simple operation — spring load close
- FAA-PMA, FAA-TSO or MIL-SPEC approved

A clean, no-mess way to test and drain fuel or oil!

SAF-AIR Aviation Products

- Unique O-ring placement prevents leaks by eliminating areas where dirt can gather
- O-rings can be replaced instead of buying a new valve
- Seal kits available

Curtis Superior Valve Co. Inc.

- Corrosion resistant, stainless steel springs
- Special "cure dated" synthetic rubber seals to withstand many liquids and temperatures
- Unique wedge seal design prevents leakage



Thread: "UNF" (Fine Thread) type are straight, non-sealing threads that rely on an O-ring to provide a seal. "NPT" (Pipe Thread) type are tapered threads that seal as they are tightened. Measure the O.D. of the thread on the valve you are replacing and compare to the thread specifications table on page 192 to determine the correct thread size.

Locking: Indicated valves lock in the open position for easy draining.

Flush mounted: Indicated valves are designed to mount flush with aircraft skin.

Use Pin Type Cup: Pin type cups similar to P/N CCA-39680 or MCCA-39680 may be used with indicated valves for sampling fuel.

Open Action: "Spiral" valves require a push and turn action to open, "Push" valves require a push action to open.

Hose Adapter Size: A hose may be attached to the indicated valves for ease of draining fuel. The size indicated is the hose I.D.

Thread	Lock	Flush Mount	Use Pin Type Cup	Open Action	Hose Adapter Size	Material	Approval & Conformity Notes	Mfg	Part Number and Notes	Inx pg 193	Alternate P/Ns		
	•		•	Push	1/2"	360 Brass	FAA-TSO	SAF	C500	3	22	CCA-3400	
3/8 NPT	•			Spiral	1/2"	Brass, Unplated	FAA-TSO	9	Curt	CCA-3400	59	C500	
1/8 NPT						360 Brass	FAA-TSO	SAF	B187		21		
1/8 NPT				Push	1/4"	360 Brass	FAA-PMA	SAF	CAV-110H-4	1	24	BJ1000AH1, CCA-110-H4	
1/8 NPT				Push	1/4"	360 Brass	FAA-PMA	Curt	CCA-110-H4	1		CAV-110H-4	
1/8 NPT				Spiral		Brass, Cad Plate	FAA-TSO	3	Curt	CCA-36150	61	BJ1000AS1MY, CAV-110	
1/8 NPT			•	Push		360 Brass	FAA-PMA	SAF	CAV-110	1	23	BJ1000AS1MY, CCA-1250, CCA-1550, CCA-36150, CCA-7450, CCB-36700	
1/8 NPT			•	Push		Brass, Cad Plate	FAA-TSO	2	Curt	CCB-36700	90	BJ1000AS1MY, CAV-110	
1/8 NPT			•	Push		Brass, Unplated	FAA-TSO	8	Curt	CCA-1800	1	44	CAV-110, BJ1000AS1MY
1/8 NPT			•	Push		303 SS	Experimental	SAF	110SS		2		
1/8 NPT				Push		303 SS	FAA-TSO	Curt	CCA-110SS	1			
1/8 NPT			•	Push	1/4"	303 SS	Experimental	SAF	110HSS		1		
1/8 NPT		•	•	Push		360 Brass	FAA-TSO	SAF	SA18	14	113	491-806, CCA-2500, F391-18, S2106-3	
1/8 NPT		•	•	Push		360 Brass	FAA-TSO	SAF	SA187	14	114	491-806, CCA-250, F391-187, S2106-3	
1/8 NPT		•	•	Push		Brass, Unplated	FAA-TSO	Curt	CCA-2500	7	53	491-806, F391-187B, SA-187, F391-88, S2106-3, SA-18, 492-100, 492-022, CAV-110	
1/8 NPT	•			Push		Brass, Unplated	FAA-TSO	3	Curt	CCA-1550	40	BJ1000AS1MY, BJ1000A-1, 1250	
1/8 NPT	•		•	Push		360 Brass	FAA-TSO	SAF	1250	1	9	BJ1000A-1, CCA-1250, CCA-1550, CCA-7450	
1/8 NPT	•			Push	1/4"	360 Brass	FAA-TSO	SAF	1250H	1	10	BJ1000AH1	
1/8 NPT	•			Spiral		Anodized/Aluminum	Experimental	Curt	CCA-1100	12	33		
1/8 NPT	•			Spiral		Anodized/Aluminum	FAA-TSO	Curt	CCA-1150		34		
1/8 NPT	•			Spiral		Brass, Cad Plate	FAA-TSO	3	Curt	CCA-4850	70	1250, 492-100, 492-022, BJ1000A-1	
1/8 NPT	•			Spiral		Brass, Unplated	FAA-TSO	3	Curt	CCA-1250	36	1250, 492-100, 492-022, BJ1000A-1, BJ1000AS1MY, CAV-110	
1/8 NPT	•			Spiral		Stainless Steel	FAA-TSO	3	Curt	CCB-36750	7	91	1250, 492-100, 492-022, BJ1000A-1, BJ1000A-2
1/4 NPT				Push	1/4"	360 Brass	FAA-PMA	SAF	CAV-160H-4	1	26	BJ1000AH2	
1/4 NPT				Push	1/4"	360 Brass	Experimental	Curt	CCA-160-H4			BJ1000AH2, CAV-160H-4	
1/4 NPT			•	Push		303 SS	Experimental	SAF	160SS		4		
1/8 NPT	•			Spiral		Brass, Cad Plate	FAA-TSO	3	Curt	CCA-7450	6	78	BJ1000AS1MY, CAV-110, CCA-1250

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Thread	Lock	Flush Mount	Use Pin Type Cup	Open Action	Hose Adapter Size	Material	Approval Type and Conformity Notes	Mfg	Part Number and Notes	Fig on pg 193	Alternate P/Ns
1/8 NPT	•			Spiral		Brass, Cad Plate	FAA-TSO 3	Curt	CCA-9950 7	84	
1/4 NPT			•	Push	1/4"	303 SS	Experimental	SAF	160HSS	3	
1/4 NPT				Push		303 SS	FAA-TSO	Curt	CCA-160SS		
1/4 NPT			•	Push		360 Brass	FAA-PMA	SAF	CAV-160 1	25	BJ1000AS1MX, CCA-1300, CCA-1600, CCA-4900
1/4 NPT			•	Push		Brass, Unplated	FAA-TSO 8	Curt	CCA-1900 1	45	CAV-160, BJ1000AS1MX
1/4 NPT			•	Push		304 Stainless	FAA-TSO	SAF	SA-60S	119	
1/4 NPT		•	•	Push		360 Brass	FAA-TSO	SAF	SA14	112	CCA-2600, F391-14
1/4 NPT		•	•	Push		Brass, Unplated	FAA-TSO	Curt	CCA-2600 7	54	F391-14,SA-14
1/4 NPT	•		•	Push		360 Brass	FAA-TSO	SAF	2500 1	11	BJ1000A-2, CCA-1300, CCA-1600, CCA-4900
1/4 NPT	•			Push	1/4"	360 Brass	FAA-TSO	SAF	2500H 1	12	BJ1000AH2
1/4 NPT	•			Push		Brass, Cad Plate	FAA-TSO 4	Curt	CCA-4800 7	69	
1/4 NPT	•			Push		Brass, Unplated	FAA-TSO 4	Curt	CCA-1600	41	2500, BJ1000A-2
1/4 NPT	•			Spiral		Brass, Cad Plate	FAA-TSO 4	Curt	CCA-4900	71	2500, BJ1000A-2
1/4 NPT	•			Spiral		Brass, Unplated	FAA-TSO 4	Curt	CCA-1300	37	2500, BJ1000A-2
1/4 NPT	•			Spiral		Stainless Steel	FAA-TSO 4	Curt	CCA-39000	63	
3/8 NPT	•			Push		Brass, Unplated	FAA-TSO 5	Curt	CCA-1650	42	BJ1000A-3, P3750
3/8 NPT	•			Push		Anodized/Aluminum	None 12	Curt	CCA-7000	77	
3/8 NPT	•		•	Push		360 Brass	FAA-TSO	SAF	P3750 1	105	
3/8 NPT	•			Spiral		Brass, Cad Plate	FAA-TSO 5	Curt	CCA-4950	72	BJ1000A-3, P3750
3/8 NPT	•			Spiral		Brass, Unplated	FAA-TSO 5	Curt	CCA-1350	38	
3/8-24 UNF				Push		303 SS	FAA-TSO	Curt	CCA-170SS 1		
3/8-24 UNF			•	Push		303 SS	Experimental	SAF	180SS	8	
3/8-24 UNF			•	Push	1/4"	303 SS	Experimental	SAF	180HSS	7	
3/8-24 UNF			•	Push		360 Brass	FAA-PMA	SAF	CAV-180 1	29	1100B52Z
3/8-24 UNF				Push	1/4"	360 Brass	FAA-PMA	SAF	CAV-180H-4 1	30	
3/8-24 UNF				Push		360 Brass	Experimental	Curt	CCA-180-H4		CAV-180H-4
3/8-24 UNF			•	Push		Brass, Unplated	FAA-TSO 8	Curt	CCA-2000 1	46	CAV-180, 1100B52Z
3/8-24 UNF		•	•	Push		360 Brass	FAA-TSO	SAF	SA32	115	CCA-2700, F391-32, S2106-1
3/8-24 UNF		•	•	Push		Brass, Unplated	FAA-TSO	Curt	CCA-2700 7	55	F391-32, S2106-1, SA-32
3/8-24 UNF	•		•	Push		360 Brass	FAA-TSO	SAF	3750 1	13	
3/8-24 UNF	•			Push	1/4"	360 Brass	FAA-TSO	SAF	3750H 1	14	
1/2-20 UNF		•	•	Push		Aluminum Anodized	FAA-PMA	SAF	SA5020	116	3651-00
1/2-20 UNF		•	•	Push		360 Brass	FAA-TSO	SAF	SA82 15	60	C100360, CCA-2900, F391-82, S2020-1
1/2-20 UNF		•	•	Push		Brass, Unplated	FAA-TSO	Curt	CCA-2900 7	57	C100360, F391-82, SA-82, S2020-2
1/2 NPT	•			Push		Brass, Unplated	FAA-TSO 11	Curt	CCA-1700 7	43	
1/2 NPT	•			Push	3/8"	Brass, Unplated	FAA-PMA 9	Curt	CCB-37000 7	92	
1/2 NPT	•			Spiral		Brass, Unplated	FAA-TSO 11	Curt	CCA-1400 7	39	
5/8-18 UNF	•			Spiral		Brass, Unplated	FAA-TSO	Curt	CCA-39550 7	65	
5/8-18 UNF	•			Spiral	3/8"	Brass, Unplated	None 12	Curt	CCA-39560 7	66	
3/4-16 UNF		•	•	Push		Aluminum Anodized	FAA-TSO	Curt	CCA-75		F75
3/4-16 UNF		•	•	Push		Aluminum Anodized	FAA-TSO	SAF	F75 3	101	CCA-75
3/4-16 UNF		•		Push		Aluminum Anodized	Experimental	Curt	CCA-1200	35	SA5817-4C, 710C-4
3/4-16 UNF		•		Push		Aluminum Anodized	FAA-TSO	SAF	SA5817-4C 4	118	CCA-1200, 710C-4
3/4-16 UNF		•		Spiral		Aluminum Anodized	10	Curt	CCB-36350-1	87	971D, 971D-1, F75
3/4-16 UNF	•	•		Push		Alodine/Aluminum	FAA-TSO 12	Curt	CCB-36450	88	
3/4-16 UNF	•	•		Push		Aluminum Anodized	10	Curt	CCB-36450-5 13	89	
3/4-16 UNF	•	•		Push		Aluminum/Nylon	FAA-TSO 10	Curt	CCB-37500 13	93	
3/4-16 UNF	•	•		Spiral		Aluminum Anodized	10	Curt	CCA-7500 10 11	79	
3/4-16 UNF	•	•		Spiral		Aluminum Anodized	10	Curt	CCA-7500-1 10	80	
3/4-16 UNF	•	•		Spiral		Aluminum Anodized	10	Curt	CCA-7500-2 10 12	81	

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Fuel System

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Thread	Lock	Flush Mount	Use Pin Type Cup	Open Action	Hose Adapter Size	Material	Approval Type and Conformity Notes	Mfg	Part Number and Notes	Fig on pg 193	Alternate P/Ns
3/4-16 UNF	•	•		Spiral		Aluminum Anodized	None 12	Curt	CCA-7600 12	83	
3/4-16 UNF	•	•		Spiral		Aluminum Anodized		Curt	CCA-7500-5 10	82	
7/16-20 UNF				Push		Aluminum Anodized	FAA-TSO	SAF	4350-6L 2	15	
7/16-20 UNF				Push		Brass, Cad Plate	FAA-TSO 7	Curt	CCB-4320 8	95	110B52Z-G, CAV-170
7/16-20 UNF				Push		Brass, Cad Plate	FAA-TSO 7	Curt	CCA-5800-3 7	75	110B52Z-G, CAV-170
7/16-20 UNF				Spiral		Brass, Cad Plate	FAA-TSO 7	Curt	CCA-5800-1 7	74	110B52Z-G, CAV-170
7/16-20 UNF			•	Push		303 SS	Experimental	SAF	170SS	6	
7/16-20 UNF			•	Push	1/4"	303 SS	Experimental	SAF	170HSS	5	
7/16-20 UNF			•	Push		360 Brass	FAA-PMA	SAF	CAV-170 1	27	110B52ZG, CCA-4300, CCA-5800-1, CCA-5800-3, CCB-4320
7/16-20 UNF				Push	1/4"	360 Brass	FAA-PMA	SAF	CAV-170H-4 1	28	BJ1000AHS-1
7/16-20 UNF				Push		360 Brass	Experimental	Curt	CCA-170-H4		BJ1000AHS-1, CAV-170H-4
7/16-20 UNF				Push		303 SS	FAA-TSO	Curt	CCA-180SS 1		
7/16-20 UNF			•	Push		Brass, Unplated	FAA-TSO 8	Curt	CCA-2100 1	47	CAV-170, 110B52ZG
7/16-20 UNF		•	•	Push		360 Brass	FAA-TSO	SAF	SA53S 15	117	CCA-53, F391-53S
7/16-20 UNF		•	•	Push		Brass	FAA-TSOB	Curt	CCA-53	N/A	SA53S, F391-53S
7/16-20 UNF		•	•	Push		360 Brass	FAA-TSO	SAF	SA72	120	CCA-2800, F391-72, S2106-2
7/16-20 UNF		•	•	Push		Brass, Unplated	FAA-TSO	Curt	CCA-2800 7	56	F391-72, S2106-2, SA-72
7/16-20 UNF	•		•	Push		360 Brass	FAA-TSO	SAF	4375	1	71D-4, BJ1000AS1M, CCA-4300, CCA-5800-1
7/16-20 UNF	•			Push	1/4"	360 Brass	FAA-TSO	SAF	4375H 1	17	BJ1000AHS1, CCA-5400
7/16-20 UNF	•			Spiral		Brass, Cad Plate	FAA-TSO 7	Curt	CCA-4300 7	67	110B52Z-G, 4375, CCA-5800-1 BJ1000AS1M, CAV-170, 71D-4
7/16-20 UNF	•			Spiral	1/4"	Brass, Cad Plate	FAA-TSO 9	Curt	CCA-5400 7	73	4375H, BK1000AHS1
9/16-18 UNF				Push		Alum. Anodized	Experimental	SAF	A5625	19	
9/16-18 UNF				Push		Brass, Cad Plate	FAA-TSO 8	Curt	CCA-31300 7	58	
9/16-18 UNF				Push		Alum. Anodized Red	FAA-TSO 8	Curt	CCA-39500	64	
9/16-18 UNF				Spiral		Brass, Cad Plate	FAA-TSO 8	Curt	CCA-36400 7	62	
9/16-18 UNF	•			Spiral		Brass, Cad Plate	FAA-TSO 8	Curt	CCA-4350 9	68	
M16x1.5			•	Push		360 Brass	Experimental	SAF	CAV-2165	31	Soccata TB-20
M16x1.6			•	Push		360 Brass	Experimental	SAF	CAV-M165H5	32	

Notes:

- 1 Replacement O-rings: see tables on next page
- 2 Stem can be cut to length per the application
- 3 Used on bladder style wing tanks
- 4 Hose attaches to the valve with a 7/16-20 flare fitting
- 5 Can be used in highly corrosive applications such as salt water.
- 6 One arm stem with turn-to-lock action
- 7 Lock wire drilled
- 8 Button-style push action
- 9 With stem for turning action
- 10 With screwdriver slot
- 11 With screen over screwdriver slot and mounting hardware
- 12 With mounting hardware (washer & two nuts installed)
- 13 Meets lightning safety requirement Mil-C-38373, Paragraph 4.6.14
- 14 P/N SA18 has a hex size of 5/8". P/N SA187 has a hex size of 1/2".
- 15 Valve inlet is below the threads and O-ring seals against hex face. See figure 117 on page 193.



See page 193 for product images

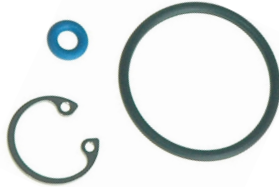
Conformity Notes:

- 1 Conforms to USAF Spec 28208
- 2 Conforms to USAF Spec 49F9798-49
- 3 Conforms to USAF Spec 28208 and 49F9798-49
- 4 Conforms to USAF Spec 28208 and 49F9798-50
- 5 Conforms to USAF Spec 28208 and 49F9798-51
- 6 Conforms to USAF Spec 28208, 49F9798-53 and MIL-V-25023
- 7 Conforms to USAF Spec 28208, 49F9798-52, MIL-V-25023 and MS29528-4
- 8 Conforms to USAF Spec 28208, 49F9798-53, MIL-V-25023 and MS29528-6
- 9 Conforms to USAF Spec 28208 and MIL-V-25023
- 10 Conforms to USAF Spec 28208, MIL-V-25023 and MS29571
- 11 Conforms to USAF Spec 49F9798-53 and MIL-V-25023
- 12 For non-certified aircraft only

Replacement Seals

SAF-AIR Seal Kits

- Add "K" or "-K" to the valve P/N to find the P/N for the applicable seal kit
- Seal kits only applicable for SAF-AIR valves with note 1 above
- All O-rings are made of Viton



Curtis Field Replaceable O-rings

Fuel Valve P/N

	MS29513-007 Stem Seal O-ring	MS29513-011 Mounting O-ring	MS29513-012 Mounting O-ring
CCA-1800	•		
CCA-1900	•		
CCA-2000	•	•	
CCA-2100	•		•

Flush Valve Fuel Plate

Supports when added stability is needed to mount a flush mount valve directly into a wet wing or fuel tank

- 2¾" overall diameter, 1½" from mounting surface to bottom hole diameter
- CCB-36450-5 flush mounted fuel drain valve is included



Manufactured by Curtis Superior Valve Co.

P/N	Description
PLT-275V	Flush Valve Fuel Plate without mounting holes. Includes CCB-36450-5 flush mounted drain valve. Non certified aircraft only.
PLT-275AV	Flush Valve Fuel Plate with mounting holes drilled. Includes CCB-36450-5 flush mounted drain valve. Non certified aircraft only.

Replacement Seals

FAA-PMA approved seals for Curtis Valves

Manufactured by PMA Products



Seal P/N	Valve P/N	Aircraft	Serial Number	ID (in)	OD (in)	Thickness (in)
CACCA1269	CCA-4850	B55	TC-1608 thru TC-2071	0.100	0.280 - 0.285	0.064 - 0.068
		E55	TE-938, TE-943 thru TE-1102			
		58	TH-1 thru TH-2124			
CACCA1319	CCA-3400	B55	TC-1608 and On	0.150	0.350	0.058
		E55	TE-938, TE-943 and On			
		58	TH-1 thru TH-2124			



Note: Use with autogas not recommended.

Installation Sockets

Used to torque valves to desired specifications and also prevents valve damage upon installation and removal.



P/N CST-916

P/N	For use with valve P/N
CST-78	Fits all 7/8 Hex Valves CCA-1400, CCA-1700, CCB-37000, CCA-39550, CCA-39560
CST-716	Fits all 7/16 Hex Valves CCA-1250, CCA-1550, CCA-4850, CCA-7450, CCA-9950, CA-36150, CCB-36750
CST-916	Fits all 9/16 Hex Valves CCA-1300, CCA-1600, CCA-4800, CCA-4900, CCA-39000
CST-1116	Fits all 11/16 Hex Valves CCA-1350, CCA-1650, CCA-2440, CCA-2450, CCA-2460, CCB-4320, CCA-4950, CCA-5400, CCA-5800-1
CST-36450	For removal of certain Curtis flush mounted valves CCB-36450, CCB-36450-5

Curtis Fuel Sampling Cup

P/N MCCCC-39680
Pin diameter: 1/8"

- Stainless steel pin and fuel-resistant clear plastic
- Convenient no-mess method of draining fuel to inspect for proper grade and contaminants
- Works with any quick drain valve designed for a pin type cup.



With our McFarlane logo!

Oil Drain Valve Adapters and Openers

Used with CCA-2450 and CCA-2460 oil drain valves to adapt to Rotax and Jabiru engines. Adapters are for non-certified aircraft only.



P/N RM12175



P/N CCA-2474



P/N F50-90



P/N F50-180



P/N CCA-2470
P/N CCA-2480

P/N	Thread	Material	Description
AN6-INV		2011 Aluminum	Christen inverted oil system
AN8-INV		2011 Aluminum	Christen inverted oil system
AN10-INV		2011 Aluminum	Christen inverted oil system
CCA-2470	12MM 1.75	Aluminum	Rotax 90-Degree adapter for CCA-2450 oil drain valve
CCA-2474	12MM 1.75	Aluminum	Rotax oil tank adapter for late models with CCA-2450 oil drain valve
CCA-2480	1/2-20 UNF	Aluminum	Jabiru 90-Degree adapter for CCA-2460 oil drain valve
F50-90			Opener - attaches at a 90 degree angle from valve.
F50-180			Opener - attaches straight out of the valve.
M1290B	1/2-20 UNF	2011 Aluminum	Banjo Bolt, Rotax for S5020J oil drain valve
M1490B	1/2-20 UNF	2011 Aluminum	Banjo Bolt, Volkswagen for S5020J oil drain valve
RM12175		2011 Aluminum	Rotax, Oil must be used on all new oil tanks being produced by Rotax as they changed the internal design on the tank requiring an adapter to use an oil drain valve.
S5090B	1/2-20 UNF	2011 Aluminum	Banjo Bolt, Jabiru for S5020J oil drain valve
S6290B	5/8-18 UNF	2011 Aluminum	Banjo Bolt, Continental for S6250 oil drain valve

Locking Oil Drain Valves

Features a detent to lock in the open position

Thread: "UNF" (Fine thread) type are straight, non-sealing threads that rely on an O-ring to seal. "NPT" (Pipe Thread) type are tapered threads that seal as they are tightened. Others are metric threads. Measure the O.D. of the thread on the valve you are replacing and compare to the thread specification table in maintenance tips to determine the correct thread size.

Open Action: Spiral valves require a push and turn action to open.

Hose Adapter: A hose adapter may be attached to the indicated valves for ease of draining. The size indicates the hose I.D.

P/N S6250



Thread	Open Action	Hose Adapter Size	Material	Approval	OEM	Part Number	See Figure on pg 193
1/2-14 NPT	Push	3/8"	Aluminum, Anodized	FAA-PMA	Curtis	CCB-5000 New!	121
1/2-14 NPT	Push	3/8"	2011 Aluminum, 302 Stainless	FAA-PMA	SAF-AIR	P5000 3	106
1/2-14 NPT	Push		Aluminum	FAA-PMA	Curtis	CCB-38000 8	94
1/2-14 NPT	Spiral	3/8"	360 Brass, 302 Stainless	FAA-PMA	SAF-AIR	F50 3 5	99
1/2-14 NPT	Push		Aluminum	None 6	Curtis	CCB-36000H New!	86
1/2-20 UNF		3/8"		None 6	SAF-AIR	A5020 3	18
1/2-20 UNF	Push	3/8"	2011 Aluminum, 302 Stainless	FAA-PMA	SAF-AIR	S5020J 3	109
1/2-20 UNF	Spiral	3/8"	Brass, Unplated	None 6	Curtis	CCA-2460	50
1/2-20 UNF	Spiral	3/8"	Brass, Unplated	None 6	Curtis	CCA-2485 2	52
3/4-14 NPT	Push	3/8"	2011 Aluminum, 302 Stainless	FAA-PMA	SAF-AIR	P7500 3	107
3/4-14 NPT	Spiral	3/8"	360 Brass, 302 Stainless	FAA-PMA	SAF-AIR	F175 3	98
3/4-16 UNF	Push	3/8"	2011 Aluminum, 302 Stainless	FAA-PMA	SAF-AIR	S7516 3	111
3/4-16 UNF	Spiral	3/8"	360 Brass, 302 Stainless	FAA-PMA	SAF-AIR	F167 3	97
5/8-18 UNF	Push	3/8"	Aluminum, Anodized	FAA-PMA	Curtis	CCB-6250 New!	122
5/8-18 UNF	Push	3/8"	2011 Aluminum, 302 Stainless	FAA-PMA	SAF-AIR	S6250 3	110
5/8-18 UNF		3/8"	2011 Aluminum, 302 Stainless	None 6	SAF-AIR	A62-INV 4	20
5/8-18 UNF	Spiral	3/8"	360 Brass, 302 Stainless	FAA-PMA	SAF-AIR	F62 3 5	100
5/8-18 UNF		3/8"	Aluminum	None 6	Curtis	CCB-32000 New!	76
5/8-18 UNF	Push	3/8"	Aluminum	None 6	Curtis	CCB-33000 New!	85
1"-18 UNF	Push	3/8"	2011 Aluminum, 302 Stainless	FAA-PMA	SAF-AIR	S1000 3	108
1"-18 UNF	Spiral	3/8"	360 Brass, 302 Stainless	FAA-PMA	SAF-AIR	F10 3 5	96
12MM 1.75	Push	3/8"	2011 Aluminum, 302 Stainless	FAA-PMA	SAF-AIR	M12175 3	102
12MM 1.75	Spiral	3/8"	Brass, Unplated	None 6	Curtis	CCA-2450	49
12MM 1.75	Spiral	3/8"	Brass, Unplated	None 6	Curtis	CCA-2475 1	51
14MM 1.50	Spiral	3/8"	Brass, Unplated	None 6	Curtis	CCA-2440	48
20MM 1.50	Push	3/8"	2011 Aluminum, 302 Stainless	FAA-PMA	SAF-AIR	M20150 3	104
		3/8"	2011 Aluminum, 302 Stainless	7	SAF-AIR	M14150 3	103

- 1** Includes P/N CCA-2450 valve and P/N CCA-2470 adapter
- 2** Includes P/N CCA-2460 valve and P/N CCA-2480 adapter
- 3** Replacement o-ring kits available. Add "K" or "-K" to valve part number.
- 4** Used with AN6, AN8 and AN10 adapters to replace a cap. The valve and adapter are sold together.
- 5** 2-piece, low profile. P/N F50-180 opener (attaches straight out of valve) included. P/N F50-90 opener available (attaches at 90° angle).
- 6** For non-certified aircraft only
- 7** For use on UL engines
- 8** Includes P/N CCB-38000 or CCB-32000 valve and P/N CCA-38001 activation tool.

Maintenance Tips:

Curtis Superior and SAF-AIR valves are designed for installation in a standard NPT port for NPT threaded valves or an AND-10050 style port for UNF threaded valves. Use a sealant on NPT threaded valves or a fuel resistant O-ring of the proper size for UNF threaded valves. Refer to aircraft manufacturer's torque specifications for the appropriate aircraft or to the torque specifications in the table below for Curtis valves.

Replace the rubber seals as per the aircraft manufacturer's recommendations or every 10 years when no guidance is given. McFarlane stocks replacement seals and seal kits for Curtis Superior and SAF-AIR. The new Curtis valves use a O-ring type seal instead of the flat seal that was previously used.

SAF-AIR valves are designed to disassemble and replace the O-rings. If the valve starts to leak over time, ensure the drain valve is tight. If the valve is tight, check the O-rings. All O-rings used are buna "n", MS29513 style, MIL-P-5315. SAF-AIR O-ring seal kits are available for most valves. Add "K" or "-K" suffix to the valve part number.

Never keep a hose attached to the oil drain valve in flight. Engine vibration and the additional mass can cause premature seal and valve wear, which could result in valve failure and a loss of engine oil.

Thread Specifications		
Thread O.D.	Thread	Curtis Torque Spec
0.375	3/8-24 UNF	80-85 In. Lbs
0.405	1/8-27 NPT	40-45 In. Lbs
0.438	7/16-20 UNF	80-85 In. Lbs
0.500	1/2-20 UNF	80-85 In. Lbs
0.540	1/4-18 NPT	80-85 In. Lbs
0.563	9/16-18 UNF	80-85 In. Lbs
0.625	5/8-18 UNF	100-115 In. Lbs
0.675	3/8-18 NPT	105-115 In. Lbs
0.750	3/4-16 UNF	80-85 In. Lbs
0.840	1/2-14 NPT	155-165 In. Lbs
Special Threads with Crush Washers		
Valve P/N	Thread	Curtis Torque Spec
CCA-2450	12MM 1.75	60-75 In. Lbs
CCA-2460	1/2-20	60-70 In. Lbs
CCA-2470	12MM 1.75	60-70 In. Lbs
CCA-2480	12-50	60-70 In. Lbs

Quick Drain Hoses





























































































































Designed to work with the Curtis Quick Drain Valves. In most cases, a simple push and twist action locks the Quick Drain Hose in place. Waste liquid flows through 5 feet of high grade vinyl tubing, preventing messy spills and making a safer, cleaner environment. Tubing will not harden in sub-freezing temperatures.

P/N	Connector Color	Used with Valve P/N
CCB-39600-1	Black	CCA-1400, CCA-1700, CCA-39550
CCB-39600-2	Blue	CCA-1350, CCA-2450, CCA-1650, CCA-4950
CCB-39600-3	Yellow	CCA-1300, CCA-1600, CCA-3400, CCA-4800, CCA-4900, CCA-39000
CCB-39600-4	Silver	CCA-4350, CCA-36400
CCB-39600-5	Brass	CCA-1250, CCA-1550, CCA-4300, CCA-7450, CCA-9950



P/N CCB-39600-5

Manufactured by Curtis Superior Drain Co., Inc.

 110HSS 1/8 NPT	 110SS 1/8 NPT	 160HSS 1/4 NPT	 160SS 1/4 NPT	 170HSS 7/16-20 UNF	 170SS 7/16-20 UNF	 180HSS 3/8-24 UNF	 180SS 3/8-24 UNF	 1250 1/8 NPT	 1250H 1/8 NPT	 2500 1/4 NPT	 2500H 1/4 NPT	 3750 3/8-24 UNF	 3750H 3/8-24 UNF	
 4350-6L 7/16-20 UNF	 4375 7/16-20 UNF	 4375H 7/16-20 UNF	 A5020 1/2-20 UNF	 A5625 9/16-18 UNF	 A62-INV 5/8-18 UNF	 B187 1/8 NPT	 C500	 CAV-110 1/8 NPT	 CAV-110H-4 1/8 NPT	 CAV-160 1/4 NPT	 CAV-160H-4 1/4 NPT	 CAV-170 7/16-20 UNF	 CAV-170H-4 7/16-20 UNF	
 CAV-180 3/8-24 UNF	 CAV-180H-4 3/8-24 UNF	 CAV-2165 M16x1.6	 CAV-M165H5 M16x1.6	 CCA-1100 1/8 NPT	 CCA-1150 1/8 NPT	 CCA-1200 3/4-16 UNF	 CCA-1250 1/2 NPT	 CCA-1300 1/4 NPT	 CCA-1350 3/8 NPT	 CCA-1400 1/2 NPT	 CCA-1550 3/8 NPT	 CCA-1600 1/4 NPT	 CCA-1650 3/8 NPT	
 CCA-1700 1/2 NPT	 CCA-1800 1/8 NPT	 CCA-1900 1/4 NPT	 CCA-2000 3/8-24 UNF	 CCA-2100 7/16-20 UNF	 CCA-2440 14MM 1.50	 CCA-2450 12MM 1.75	 CCA-2460 1/2-20 UNF	 CCA-2475 12MM 1.75	 CCA-2485 1/2-20 UNF	 CCA-2500 1/8 NPT	 CCA-2600 1/4 NPT	 CCA-2700 3/8-24 UNF	 CCA-2800 7/16-20 UNF	
 CCA-2900 1/2-20 UNF	 CCA-31300 9/16-18 UNF	 CCA-3400 3/8 NPT	 SA82 1/2-20 UNF	 CCA-36150 1/8 NPT	 CCA-36400 9/16-18 UNF	 CCA-39000 1/4 NPT	 CCA-39500 9/16-18 UNF	 CCA-39550 5/8-18 UNF	 CCA-39560 5/8-18 UNF	 CCA-4300 7/16-20 UNF	 CCA-4350 9/16-18 UNF	 CCA-4800 1/4 NPT	 CCA-4850 1/8 NPT	
 CCA-4900 1/4 NPT	 CCA-4950 3/8 NPT	 CCA-5400 7/16-20 UNF	 CCA-5800-1 7/16-20 UNF	 CCA-5800-3 7/16-20 UNF	 CCB-32000 5/8-18 UNF	 CCA-7000 3/8 NPT	 CCA-7450 1/8 NPT	 CCA-7500 3/4-16 UNF	 CCA-7500 3/4-16 UNF	 CCA-7500-1 3/4-16 UNF	 CCA-7500-2 3/4-16 UNF	 CCA-7500-5 3/4-16 UNF	 CCA-7600 3/4-16 UNF	 CCA-9950 1/8 NPT
 CCB-33000 5/8-18 UNF	 CCB-36000H 1/2-14 NPT	 CCB-36350-1 3/4-16 UNF	 CCB-36450 3/4-16 UNF	 CCB-36450-5 3/4-16 UNF	 CCB-36700 1/8 NPT	 CCB-36750 1/8 NPT	 CCB-37000 1/2 NPT	 CCB-37500 3/4-16 UNF	 CCB-38000 1/2 NPT	 CCB-4320 7/16-20 UNF	 F10 1"-18 UNF	 F167 3/4-16 UNF	 F175 3/4-14 NPT	
 F50 1/2-14 NPT	 F62 5/8-18 UNF	 F75 3/4-16 UNF	 M12175 12MM 1.75	 M14150 14MM 1.50	 M20150 20MM 1.50	 P3750 3/8 NPT	 P5000 1/2-14 NPT	 P7500 3/4-14 NPT	 S1000 1"-18 UNF	 S5020J 7/16-20 UNF	 S6250 5/8-18 UNF	 S7516 3/4-16 UNF	 SA14 1/4 NPT	
 SA18 1/8 NPT	 SA187 1/8 NPT	 SA32 3/8-24 UNF	 SA5020 1/2-20 UNF	 SA535 7/16-20 UNF	 SA5817-4C 3/4-16 UNF	 SA-60S 1/4 NPT	 SA72 7/16-20 UNF	 CCB-5000 1/2-14 NPT	 CCB-6250 5/8-15 UNF					

Photos are not to scale relative to each other