



CHECK VALVES

CRISSAIR Inc, is a world class, leading manufacturer of all styles of Check Valves.

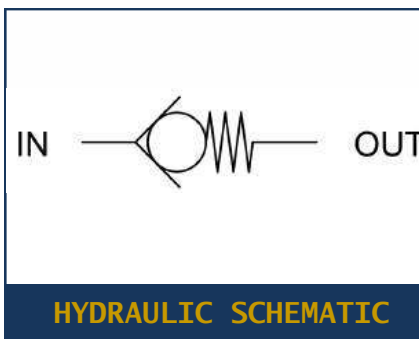
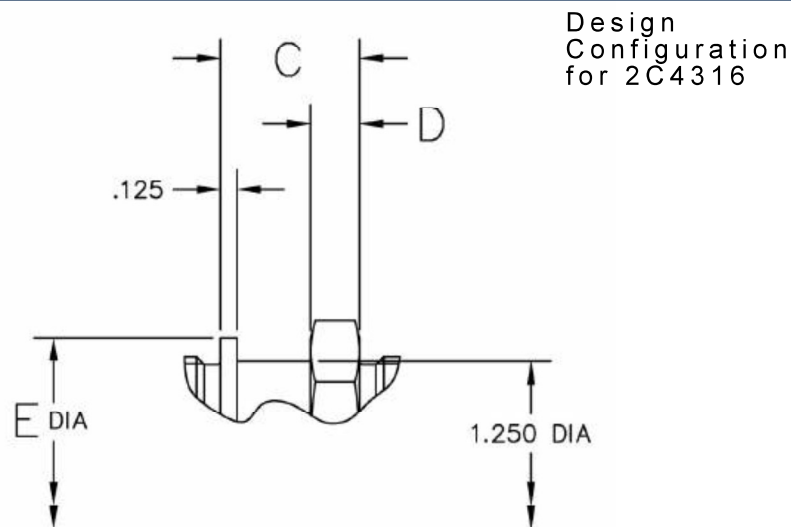
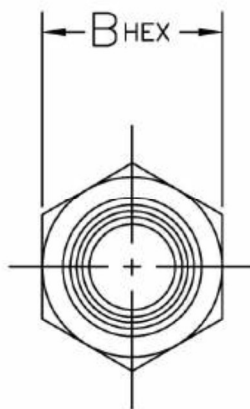
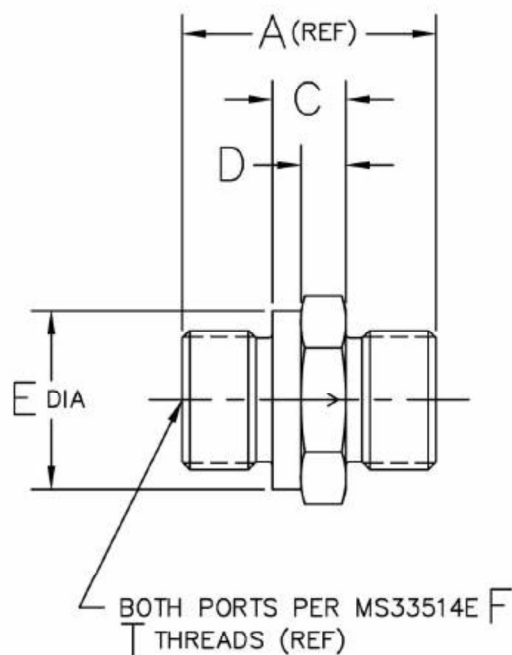
- **Inline Check Valves:** Crissair's line of inline check valves generally utilize a design containing a poppet and one-piece body. This unique design offers excellent performance and unmatched reliability for hydraulic, lubrication, and pneumatic systems. Many of Crissair's designs are qualified to MIL-V-19069 and MIL-V-25675, and can be found on the Qualified Products List QPL-25675.
- **Cartridge Check Valves:** The cartridge style check valves generally utilize the same internal components and design architecture as the inline check valves, but are specially designed to thread or insert into next level manifold assemblies.
- **Zero Leak designs** generally incorporate elastomeric poppets and/or seats.
- **Fuel Swing Check Valves:** Crissair's line of swing check valves are used in fuel or pneumatic system applications where low pressure drops and low leakage rates are of the essence. Many of Crissair's designs are qualified to MIL-V-7899 and can be found on the Qualified Products List QPL-7899.
- **Split Flapper Check Valves** are used within bleed air and environmental control systems (ECS). Some designs utilize materials capable of withstanding extremely high temperatures.

This catalog contains a small sample of drawings. Please contact Crissair for additional drawings and/or configurations.





PART NUMBER: 2C4300 CHECK VALVE, SERIES, FLARELESS



PERFORMANCE SPECIFICATIONS:

QUALIFIED PER: MIL-V-19069

FLUIDS: ALL AIRCRAFT HYDRAULIC FLUIDS

MATERIAL: BODY 17-4PH CRES

BODY 431 CRES AVAILABLE WITH 2C5300 SERIES

POPPET 440C CRES

TEMPERATURE RANGE: -65°F TO 450°F

OPERATING PRESSURE: 3000 PSIG

PROOF PRESSURE: 4500 PSIG

CRACKING PRESSURE: 2 TO 8 PSID

FLOW: SEE TABLE AT 15 PSID MAX

INTERNAL LEAKAGE (CHECKED DIRECTION):

1 DPM MAX AT 5 PSID

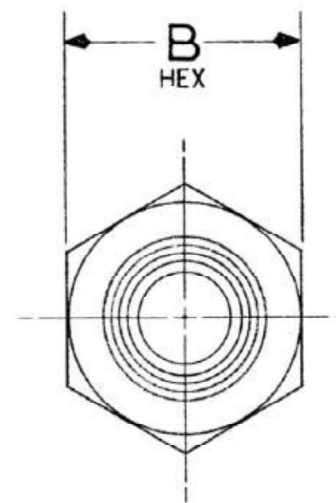
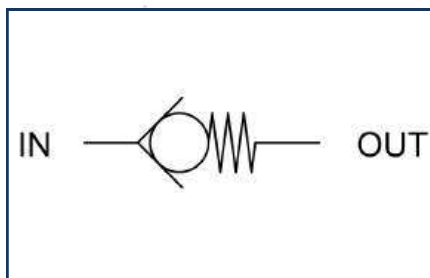
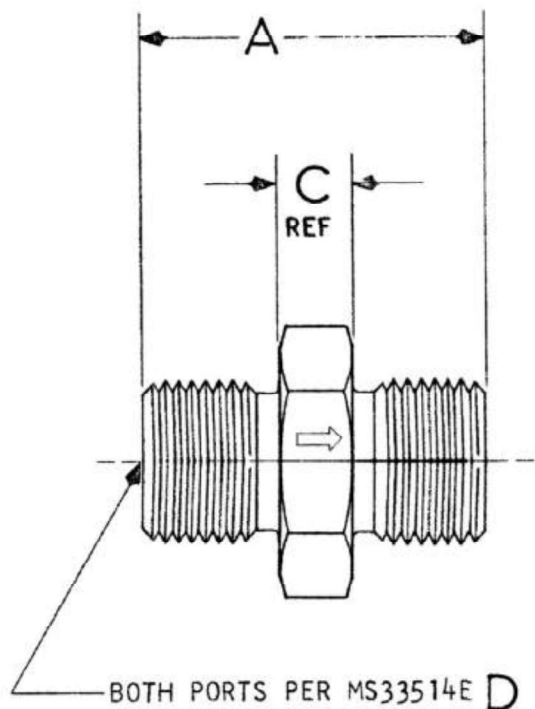
NONE AT 1000 TO 3000 PSID

MS24423-16	2C4316	1	1.312-12UNJF-3A	16	2.438	1.625	1.062	.375	1.615	29.0	.515
MS24423-12	2C4312	3/4	1.062-12UNJF-3A	12	1.938	1.375	.562	.343	1.365	16.0	.336
MS24423-10	2C4310	5/8	.8750-14UNJF-3A	10	1.781	1.125	.531	.312	1.115	10.5	.207
MS24423-8	2C4380	1/2	.7500-16UNJF-3A	8	1.624	1.000	.500	.281	.990	6.0	.162
MS24423-6	2C4360	3/8	.5625-18UNJF-3A	6	1.407	.813	.469	.250	.803	3.5	.092
—	2C4350	5/16	.5000-20UNJF-3A	5	1.344	.750	.438	.219	.740	2.3	.069
MS24423-4	2C4340	1/4	.4375-20UNF-3A	4	1.344	.688	.438	.219	.678	1.2	.062
MS PART NO	CRISSAIR PART NO	TUBE OD	T THREAD	F	A REF	B HEX	C	D	E DIA	RATED FLOW (GPM)	MAX WT (LBS)

CATEGORY 1: CHECK VALVES, INLINE



PART NUMBER: 2C1700 CHECK VALVE, SERIES, FLARELESS



PERFORMANCE SPECIFICATIONS:

FLUIDS: ALL AIRCRAFT HYDRAULIC FLUIDS

MATERIAL: BODY 17-4PH CRES

POPPET 440C CRES

TEMPERATURE RANGE: -65°F TO 275°F

OPERATING PRESSURE: 3000 PSIG

PROOF PRESSURE: 4500 PSIG

CRACKING PRESSURE: 2 TO 8 PSID

FLOW: SEE TABLE AT 10 PSID MAX

INTERNAL LEAKAGE (CHECKED DIRECTION):

1 DPM MAX AT 5 PSID

NONE AT 1000 TO 3000 PSID

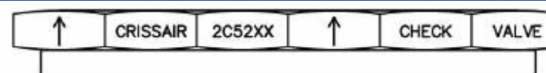
HYDRAULIC SCHEMATIC

2C1716	1	16	2.437	1.625	1.062	29.0	.424
2C1712	3/4	12	1.875	1.375	.500	16.0	.275
2C1710	5/8	10	1.625	1.125	.375	10.5	.184
2C1780	1/2	8	1.440	1.000	.316	6.0	.120
2C1760	3/8	6	1.250	.813	.312	3.5	.073
2C1750	5/16	5	1.125	.750	.219	2.3	.051
2C1740	1/4	4	1.125	.688	.219	1.2	.043
CRISSAIR PART NO	TUBE OD	D	A	B HEX	C REF	RATED FLOW (GPM)	MAX WT (LBS)

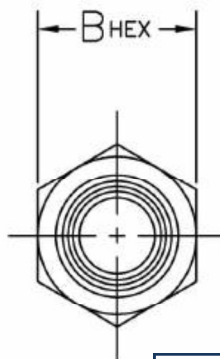
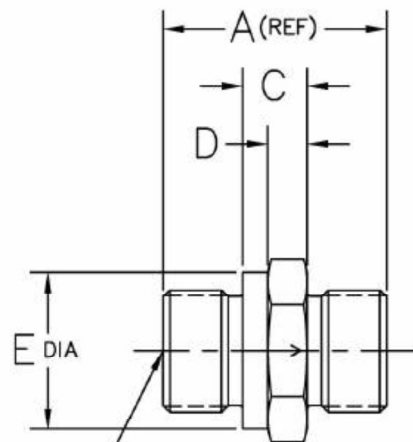
CATEGORY 1: CHECK VALVES, INLINE



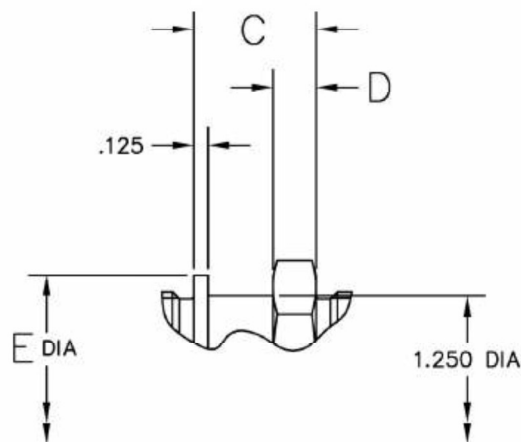
PART NUMBER: 2C5200 CHECK VALVE, SERIES, FLARELESS



MARKING DETAIL



BOTH PORT PER MS33514E (SIZE PER COLUMN F)
EXCEPT FOR HOLE SIZE A ON MS33514E



CONFIGURATION OF SIZE 16 ONLY



HYDRAULIC SCHEMATIC

PERFORMANCE SPECIFICATIONS:

QUALIFIED PER: MIL-V-19069

FLUIDS: ALL AIRCRAFT HYDRAULIC FLUIDS

MATERIAL: BODY 2024-T351 AL

POPPET 440C CRES

TEMPERATURE RANGE:-65°F TO 275°F

OPERATING PRESSURE: 3000 PSIG

PROOF PRESSURE: 4500 PSIG

CRACKING PRESSURE: 2 TO 8 PSID

FLOW: SEE TABLE AT 15 PSID MAX

INTERNAL LEAKAGE (CHECKED DIRECTION):

1 DPM MAX AT 5 PSID

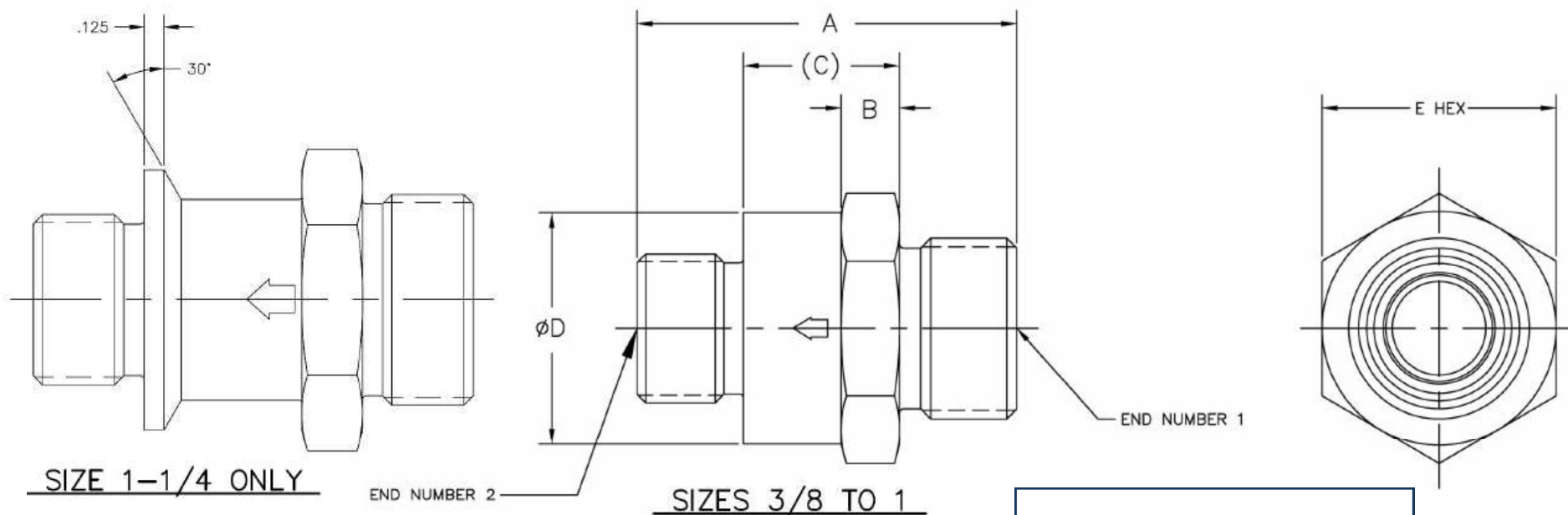
NONE AT 1000 TO 3000 PSID

2C5216	1	1 5/16-12UNJF-3A	16	2.438	1.625	1.062	.375	1.615	29.0	.273
2C5212	3/4	1 1/16-12UNJF-3A	12	1.938	1.375	.562	.343	1.365	16.0	.162
2C5210	5/8	7/8-14UNJF-3A	10	1.781	1.125	.531	.312	1.115	10.5	.099
2C5280	1/2	3/4-16UNJF-3A	8	1.624	1.000	.500	.281	.990	6.0	.077
2C5260	3/8	9/16-18UNJF-3A	6	1.407	.813	.469	.250	.803	3.5	.039
2C5250	5/16	1/2-20UNJF-3A	5	1.344	.750	.438	.219	.740	2.3	.030
2C5240	1/4	7/16-20UNJF-3A	4	1.344	.688	.438	.219	.678	1.2	.026
CRISSAIR PART NO	TUBE OD	TUBE THREAD (REF)	F	A REF	B HEX	C	D	E DIA	RATED FLOW (GPM)	MAX WT (LBS)

CATEGORY 1: CHECK VALVES, INLINE



CHECK VALVE, SERIES, FLARELESS



HYDRAULIC SCHEMATIC

PERFORMANCE SPECIFICATIONS:

FLUIDS: ALL AIRCRAFT HYDRAULIC FLUIDS

MATERIAL: BODY 17-4PH CRES

POPPET 440C CRES

TEMPERATURE RANGE: -65°F TO 275°F

OPERATING PRESSURE: 4000 PSIG

PROOF PRESSURE: 6000 PSIG

CRACKING PRESSURE: 2 TO 8 PSID

FLOW: SEE TABLE

INTERNAL LEAKAGE (CHECKED DIRECTION):

1 DPM MAX AT 5 PSID

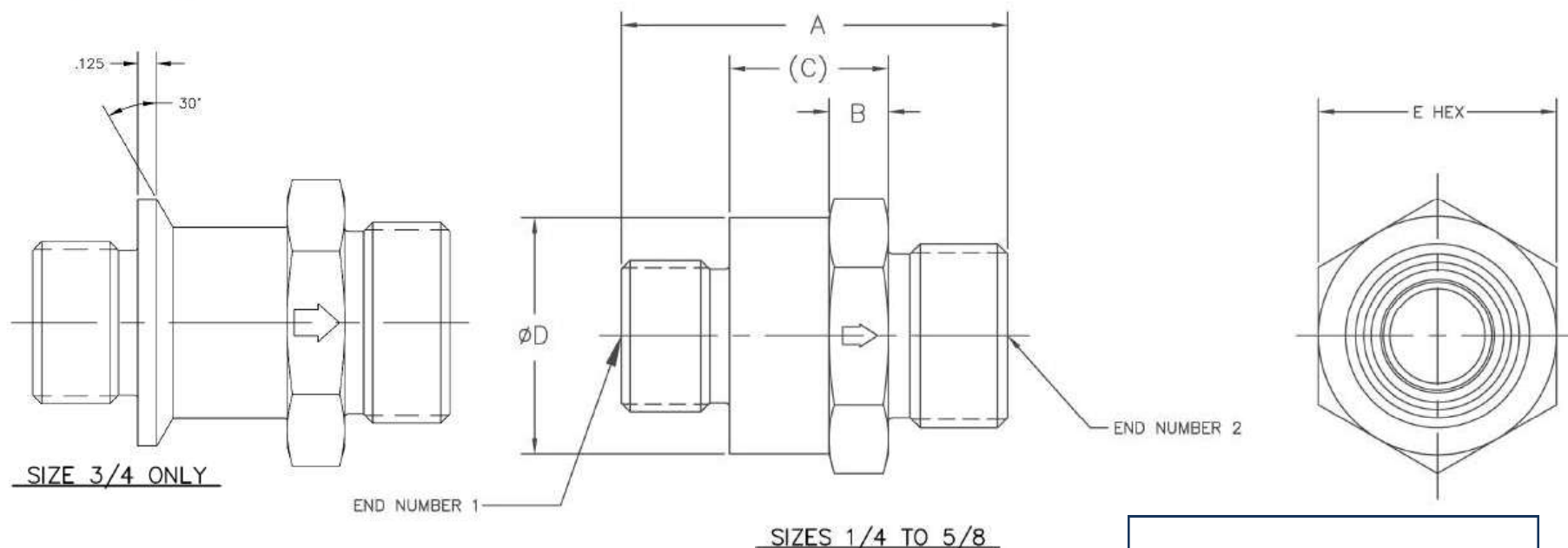
NONE AT 1000 TO 4000 PSID

7C6016-2	1 1/4	29.0	14	MS33514E20	MS33514E16	2.460	.375	1.084	1.865	1.875	.95
7C6012-2	1	16.0	12	MS33514E16	MS33514E12	2.030	.343	.654	1.615	1.625	.70
7C6010-2	3/4	10.5	12	MS33514E12	MS33514E10	1.850	.312	.537	1.365	1.375	.36
7C6008-2	5/8	6.0	14	MS33514E10	MS33514E8	1.670	.281	.483	1.115	1.125	.22
7C6006-2	1/2	3.5	12	MS33514E8	MS33514E6	1.480	.250	.449	.990	1.000	.15
7C6004	3/8	1.2	10	MS33514E6	MS33514E4	1.380	.219	.458	.803	.813	.10
CRISSAIR PART NO	TUBE SIZE	FLOW (GPM)	ΔP (PSID)	FITTING END ^{NO} 1 (FLARELESS TUBE)	FITTING END ^{NO} 2 (FLARELESS TUBE)	A ±.015	B ±.015	C (REF)	D ±.015	E ±.015	MAX WT (LBS)

CATEGORY 1: CHECK VALVES, INLINE



CHECK VALVE, SERIES, FLARELESS



HYDRAULIC SCHEMATIC

PERFORMANCE SPECIFICATIONS:

FLUIDS: ALL AIRCRAFT HYDRAULIC FLUIDS

MATERIAL: BODY 17-4PH CRES

POPPET 440C CRES

TEMPERATURE RANGE: -65°F TO 275°F

OPERATING PRESSURE: 4000 PSIG

PROOF PRESSURE: 6000 PSIG

CRACKING PRESSURE: 2 TO 8 PSID

FLOW: SEE TABLE

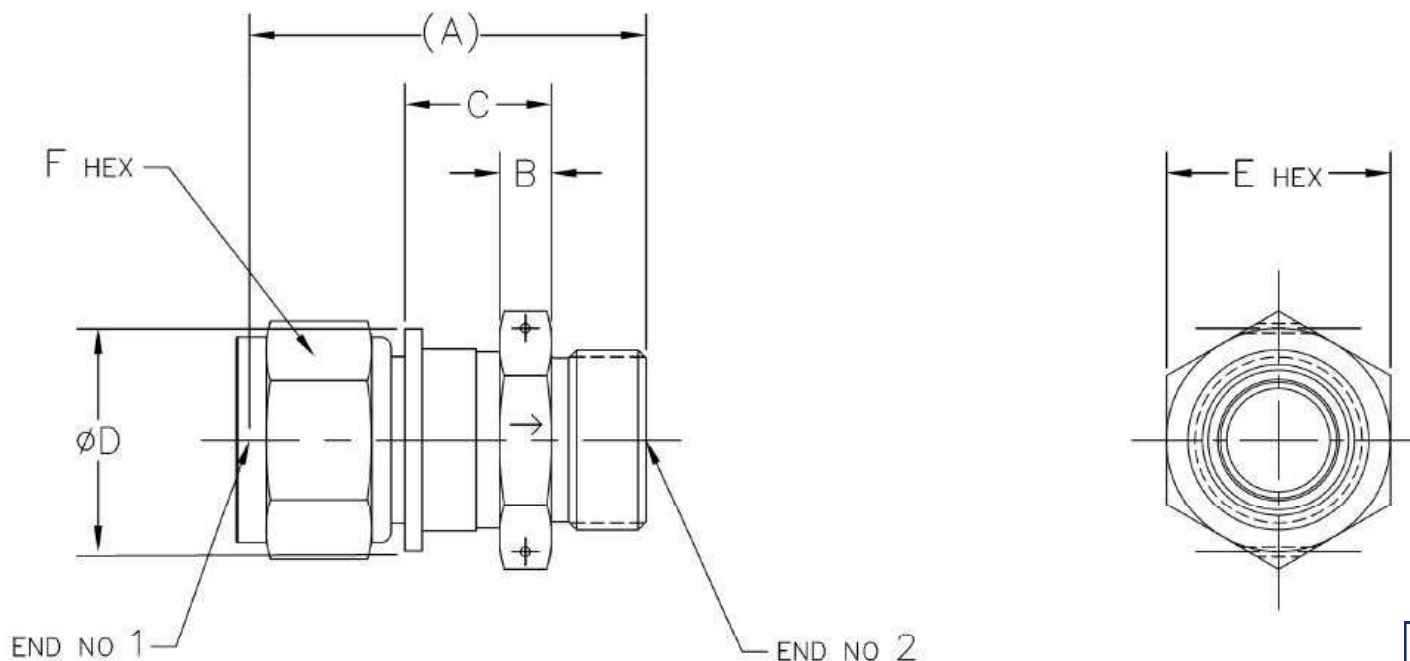
INTERNAL LEAKAGE (CHECKED DIRECTION):
1 DPM MAX AT 5 PSID
NONE AT 1000 TO 4000 PSID

7C6016-1	3/4	29.0	12	MS33514E12	MS33514E16	2.730	.375	1.354	1.615	1.625	.60
7C6012-1	5/8	16.0	10	MS33514E10	MS33514E12	2.230	.343	.917	1.365	1.375	.47
7C6010-1	1/2	10.5	10	MS33514E8	MS33514E10	2.020	.312	.833	1.115	1.125	.29
7C6008-1	3/8	6.0	12	MS33514E6	MS33514E8	1.800	.281	.769	.990	1.000	.21
7C6006-1	1/4	3.5	25	MS33514E4	MS33514E6	1.630	.250	.708	.803	.813	.13
CRISSAIR PART NO	TUBE SIZE	FLOW (GPM)	ΔP (PSID)	FITTING END ^{NO} 1 (FLARELESS TUBE)	FITTING END ^{NO} 2 (FLARELESS TUBE)	A ±.015	B ±.015	C (REF)	D ±.015	E ±.015	MAX WT (LBS)

CATEGORY 1: CHECK VALVES, INLINE



CHECK VALVE, SERIES, B-NUT/FLARELESS



PERFORMANCE SPECIFICATIONS:

FLUIDS: ALL AIRCRAFT HYDRAULIC FLUIDS

MATERIAL: BODY 15-5PH CRES

POPPET 440C CRES

SWIVEL NUT 304 CRES

TEMPERATURE RANGE: -65°F TO 275°F

OPERATING PRESSURE: 3000 PSIG

4000 PSIG FOR 1C3200 SERIES

PROOF PRESSURE: 4500 PSIG

6000 PSIG FOR 1C3200 SERIES

CRACKING PRESSURE: 2 TO 8 PSID

FLOW: SEE TABLE AT 15 PSID MAX

INTERNAL LEAKAGE (CHECKED DIRECTION):

1 DPM MAX AT 0 TO 1000 PSID

NONE AT 1000 TO 3000 PSID

ALSO AVAILABLE WITH BODY
IN AL ALLOY AND TITANIUM



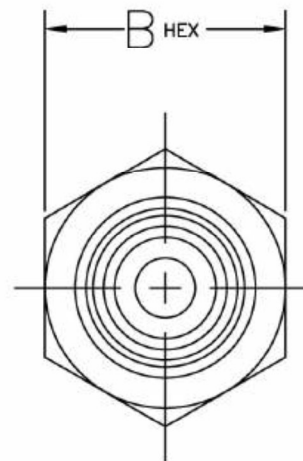
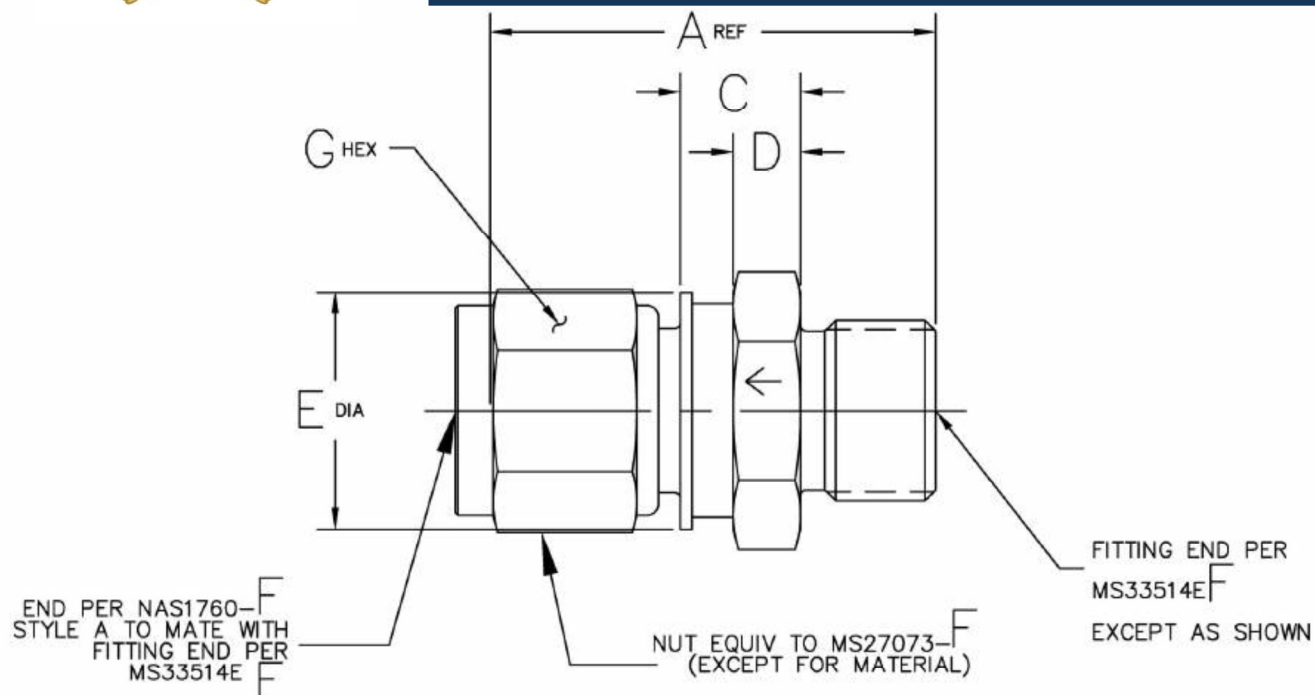
HYDRAULIC SCHEMATIC

1C6216	1	29.0	NAS1760A16	MS33514E16	2.876	.375	1.062	1.615	1.625	1.500
1C6212	3/4	16.0	NAS1760A12	MS33514E12	2.201	.343	.562	1.365	1.375	1.250
1C6210	5/8	10.5	NAS1760A10	MS33514E10	2.056	.312	.531	1.115	1.125	1.000
1C6208	1/2	6.0	NAS1760A8	MS33514E8	1.853	.281	.500	.990	1.000	.875
1C6206	3/8	3.5	NAS1760A6	MS33514E6	1.621	.250	.469	.803	.812	.688
1C6204	1/4	1.2	NAS1760A4	MS33514E4	1.491	.219	.438	.678	.688	.562
CRISSAIR PART NO	TUBE SIZE	FLOW (GPM)	FITTING END NO 1 (FLARELESS B-NUT)	FITTING END NO 2 (FLARELESS TUBE)	A (REF)	B ±.015	C ±.015	D ±.015	E ±.015	F ±.010

CATEGORY 1: CHECK VALVES, INLINE



CHECK VALVE, SERIES, B-NUT/FLARELESS



HYDRAULIC SCHEMATIC

PERFORMANCE SPECIFICATIONS:

FLUIDS: ALL AIRCRAFT HYDRAULIC FLUIDS

MATERIAL: BODY 17-4PH CRES

POPPET 440C CRES

SWIVEL NUT 6AL-4V TITANIUM

TEMPERATURE RANGE:-65°F TO 275°F

OPERATING PRESSURE: 4000 PSIG

PROOF PRESSURE: 6000 PSIG

CRACKING PRESSURE: 2 TO 8 PSID

FLOW: SEE TABLE AT 15 PSID MAX

INTERNAL LEAKAGE (CHECKED DIRECTION):

1 DPM MAX AT 5 PSID TO 1000 PSID

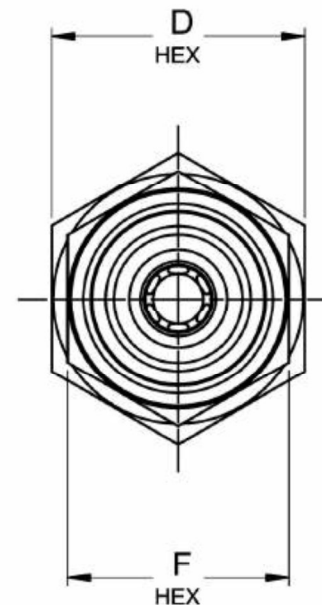
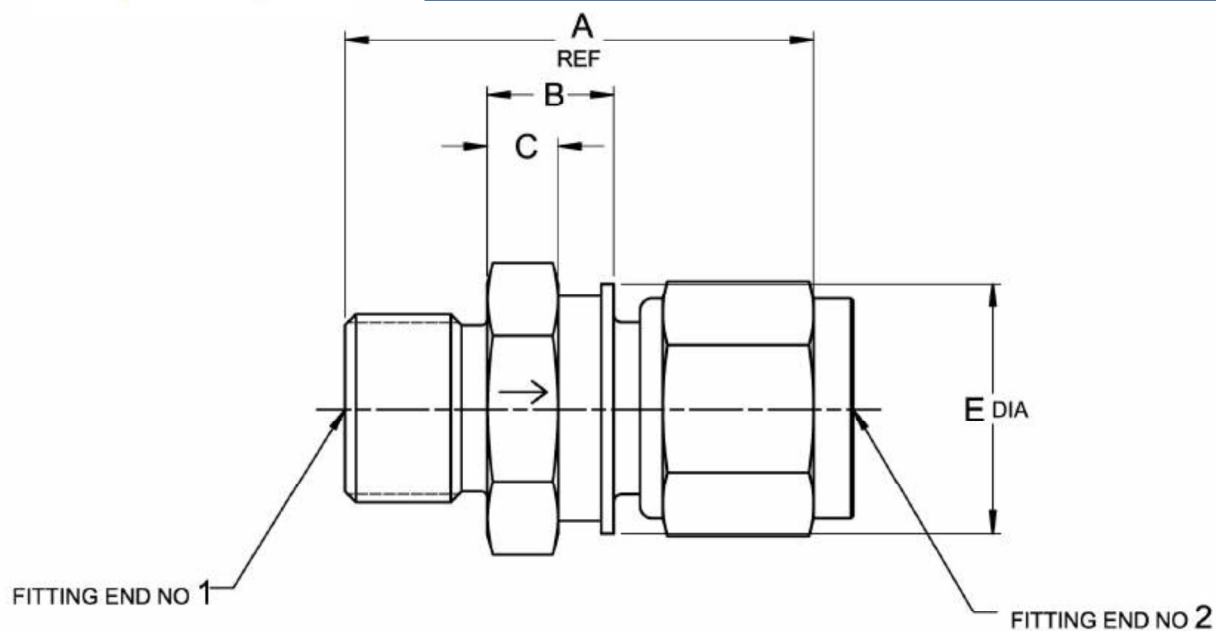
NONE AT 1000 TO 4000 PSID

7C2616	16	2.876	1.625	1.062	.375	1.615	1.496	20.0	.957
7C2614	14	2.600	1.500	.812	.360	1.490	(1.371)	16.0	.888
7C2612	12	2.201	1.375	.562	.343	1.365	1.246	10.5	.795
7C2610	10	2.056	1.125	.531	.312	1.115	.996	6.0	.362
7C2608	8	1.853	1.000	.500	.281	.990	.871	3.5	.270
7C2606	6	1.621	.813	.469	.250	.803	.684	1.2	.150
7C2604	4	1.491	.688	.438	.219	.678	.559	0.4	.104
CRISSAIR PART NO	F	A REF	B HEX	C	D	E DIA	G HEX	RATED FLOW (GPM)	MAX WT (LBS)

CATEGORY 1: CHECK VALVES, INLINE



CHECK VALVE, SERIES, B-NUT/FLARELESS



PERFORMANCE SPECIFICATIONS:

FLUIDS: ALL AIRCRAFT HYDRAULIC FLUIDS

MATERIAL: BODY 2024-T351 AL

POPPET 440C CRES

SWIVEL NUT 2024-T6 OR T851 AL

TEMPERATURE RANGE:-65°F TO 275°F

OPERATING PRESSURE: 3000 PSIG

PROOF PRESSURE: 4500 PSIG

CRACKING PRESSURE: 2 TO 8 PSID

FLOW: SEE TABLE AT 15 PSID MAX

INTERNAL LEAKAGE (CHECKED DIRECTION):

1 DPM MAX AT 5 PSID

NONE AT 1000 TO 3000 PSID



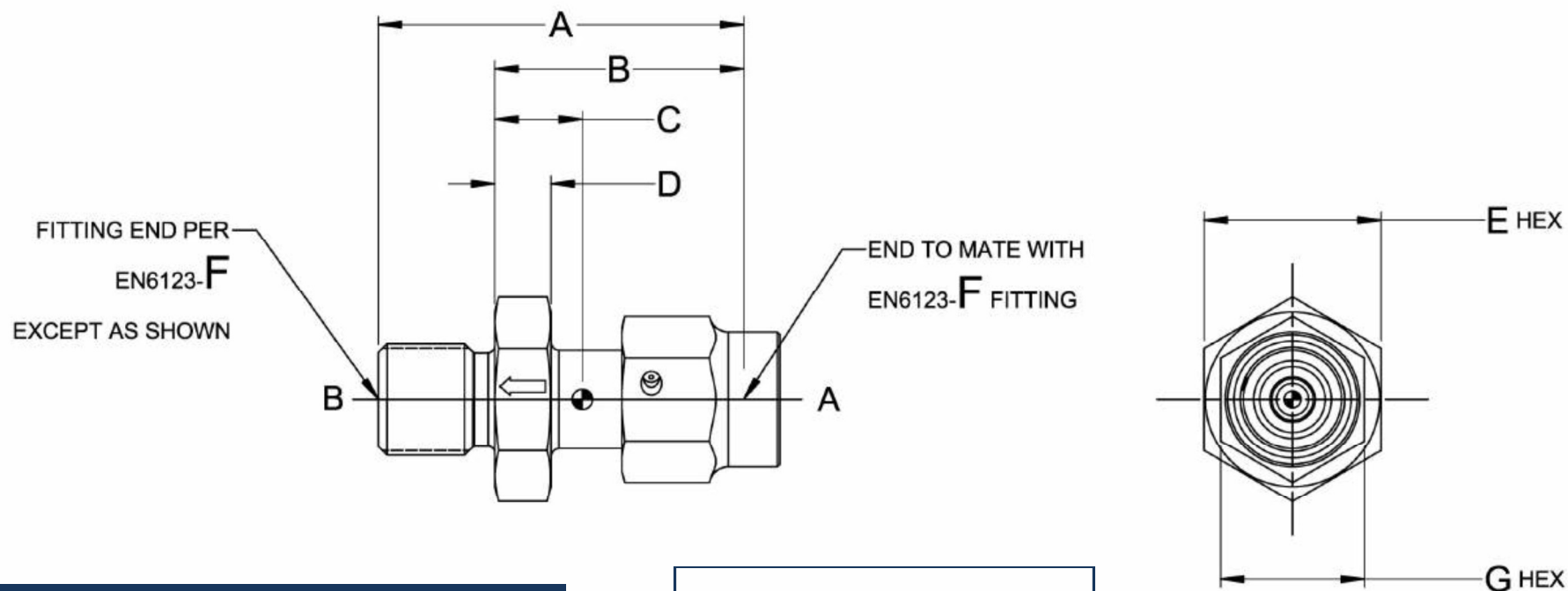
HYDRAULIC SCHEMATIC

7C2008	MS33514E8 (.7500-16 UNJF-3A)	NAS1760-8 (.7500-16 UNJF-3B)	1.853	.500	.281	1.000	.990	.875	3.5	.102
7C2006	MS33514E6 (.5625-18 UNJF-3A)	NAS1760-6 (.5625-18 UNJF-3B)	1.621	.469	.250	.813	.803	.687	1.2	.059
7C2004	MS33514E4 (.4375-20 UNJF-3A)	NAS1760-4 (.4375-20 UNJF-3B)	1.491	.438	.219	.688	.678	.562	0.4	.037
CRISSAIR PART NO	FITTING END NO. 1	FITTING END NO. 2	A REF	B	C	D HEX	E DIA	F HEX	RATED FLOW (GPM)	MAX WT (LBS)

CATEGORY 1: CHECK VALVES, INLINE



CHECK VALVE, SERIES, B-NUT/FLARELESS



PERFORMANCE SPECIFICATIONS:

FLUIDS: ALL AIRCRAFT HYDRAULIC FLUIDS

MATERIAL: BODY 15-5PH CRES

POPPET PH13-8MO CRES

SWIVEL 15-5PH CRES

TEMPERATURE RANGE: -65°F TO 275°F

OPERATING PRESSURE: 5075 PSIG

PROOF PRESSURE: 7612 PSIG

CRACKING PRESSURE: 2 TO 7.25 PSID

FLOW: 1C5554: 5.28 GPM AT 160 PSID

1C5556: 7.9 GPM AT 29 PSID

13.2 GPM AT 43.5 PSID

INTERNAL LEAKAGE (CHECKED DIRECTION):
2 DPM MAX AT 3 TO 73 PSID
NONE AT 73 TO 7612 PSID



HYDRAULIC SCHEMATIC

1C6218	4	1.422	.984 .954	.341	.234 .204	.691 .678	.565 .552
1C6220	8	1.866	1.319 1.289	.451	.266 .236	1.003 .990	.878 .865
CRISSAIR PART NO	F	A	B	C	D	E HEX	G HEX

CATEGORY 1: CHECK VALVES, INLINE

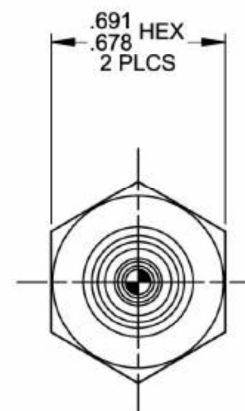
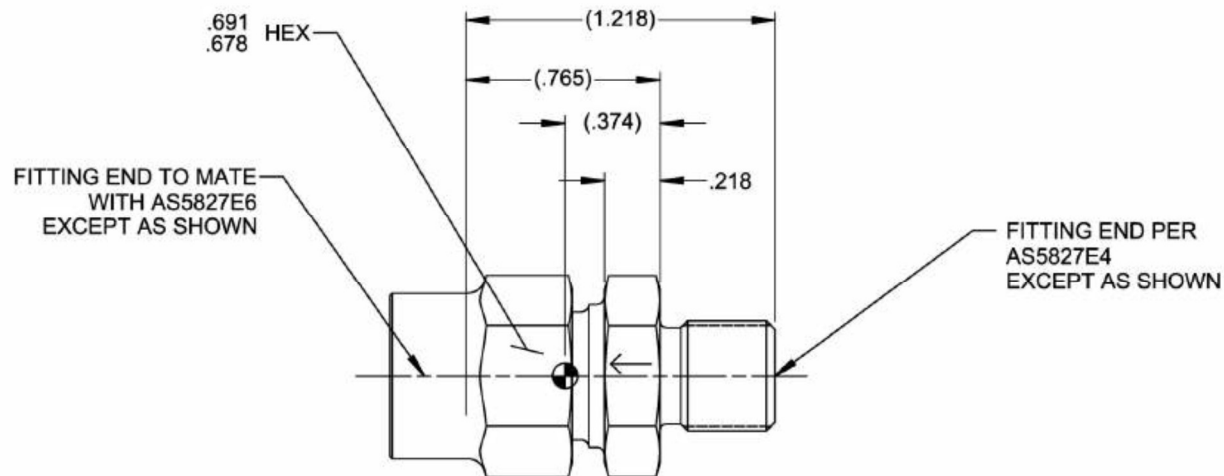


PART NUMBER: 1C6214

B-NUT/FLARELESS



ISOMETRIC VIEW
FOR REFERENCE ONLY



PERFORMANCE SPECIFICATIONS:

FLUIDS: ALL AIRCRAFT HYDRAULIC FLUIDS

MATERIAL: BODY 15-5PH CRES

POPPET PH13-8MO CRES

SWIVEL 15-5PH CRES

TEMPERATURE RANGE: -65°F TO 275°F

OPERATING PRESSURE: 6000 PSIG

PROOF PRESSURE: 9000 PSIG

CRACKING PRESSURE: 2 TO 8 PSID

FLOW: 2 GPM AT 29 PSID MAX

INTERNAL LEAKAGE (CHECKED DIRECTION):

5 DPM MAX AT 0 TO 1000 PSID

1 DPM MAX AT 1001 TO 6000 PSID

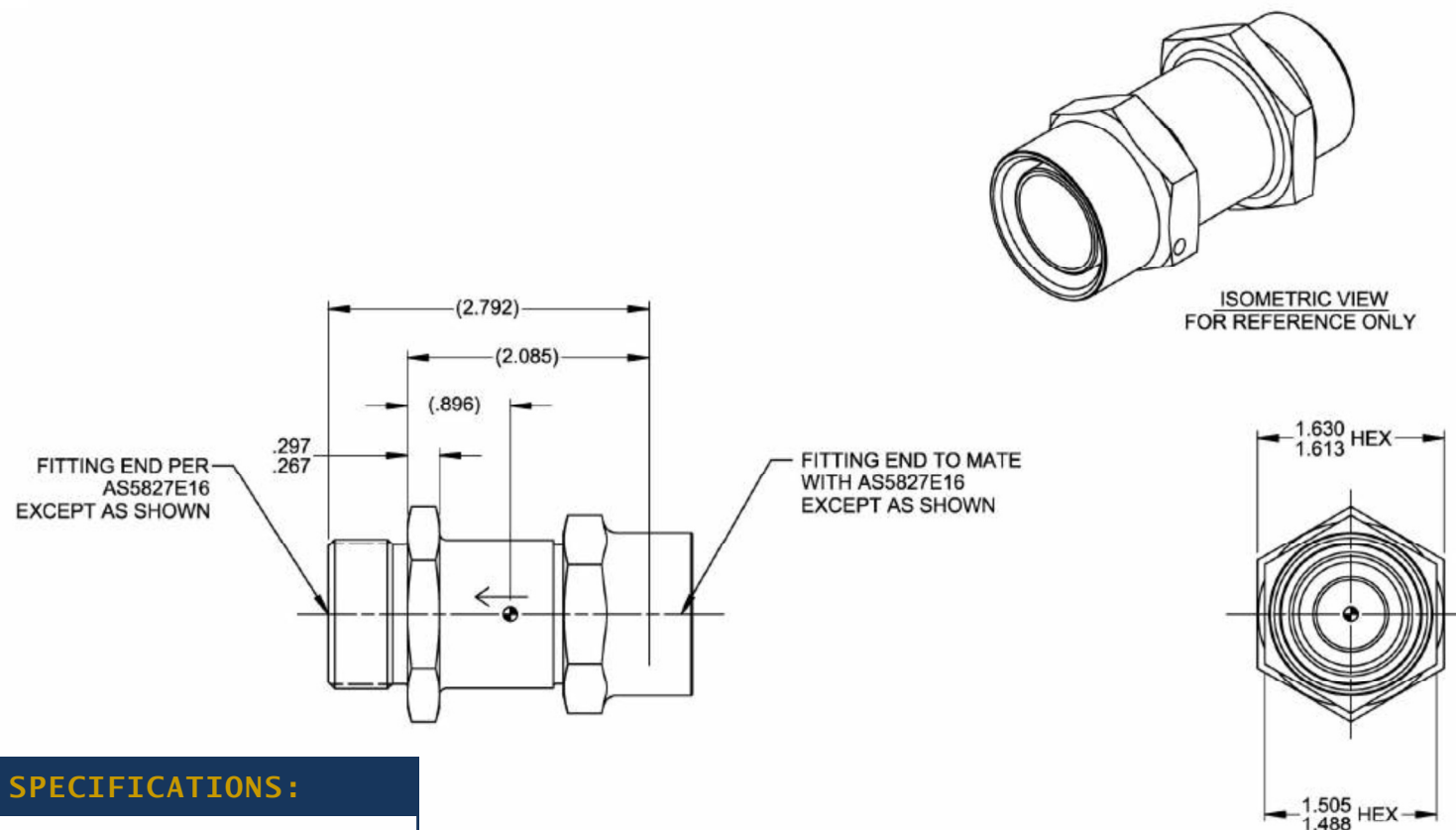


HYDRAULIC SCHEMATIC

CATEGORY 1: CHECK VALVES, INLINE



PART NUMBER: 1C6202, B-NUT/FLARELESS



PERFORMANCE SPECIFICATIONS:

FLUIDS: ALL AIRCRAFT HYDRAULIC FLUIDS

MATERIAL: BODY 15-5PH CRES

POPPET PH13-8MO CRES

SWIVEL 15-5PH CRES

TEMPERATURE RANGE: -65°F TO 275°F

OPERATING PRESSURE: 5000 PSIG

PROOF PRESSURE: 7500 PSIG

CRACKING PRESSURE: 2 TO 8 PSID

FLOW: 40 GPM AT 36 PSID MAX

INTERNAL LEAKAGE (CHECKED DIRECTION):
5 DPM MAX AT 0 TO 5000 PSID

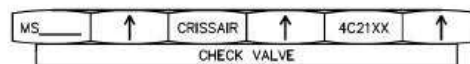


HYDRAULIC SCHEMATIC

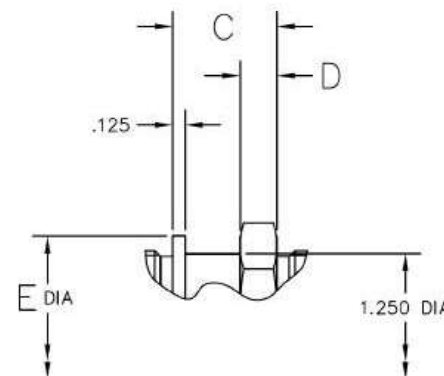
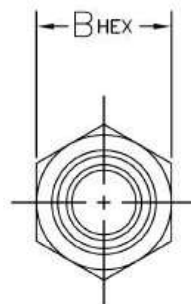
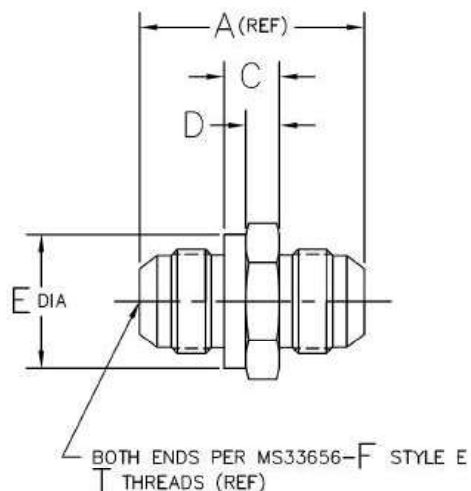
CATEGORY 1: CHECK VALVES, INLINE



PART NUMBER: 4C2100 CHECK VALVE, SERIES, FLARED



MARKING DETAIL



CONFIGURATION OF SIZE 16 ONLY



HYDRAULIC SCHEMATIC

PERFORMANCE SPECIFICATIONS:

FLUIDS: ALL AIRCRAFT HYDRAULIC FLUIDS

MATERIAL: BODY 17-4PH CRES

BODY 431 CRES AVAILABLE FOR 2C6500 SERIES

BODY 303 CRES AVAILABLE FOR 2C5100 SERIES

POPPET 440C CRES

TEMPERATURE RANGE: -65°F TO 450°F

OPERATING PRESSURE: 3000 PSIG

PROOF PRESSURE: 4500 PSIG

CRACKING PRESSURE: 2 TO 8 PSID

FLOW: SEE TABLE AT 15 PSID MAX

INTERNAL LEAKAGE (CHECKED DIRECTION):

1 DPM MAX AT 5 PSID

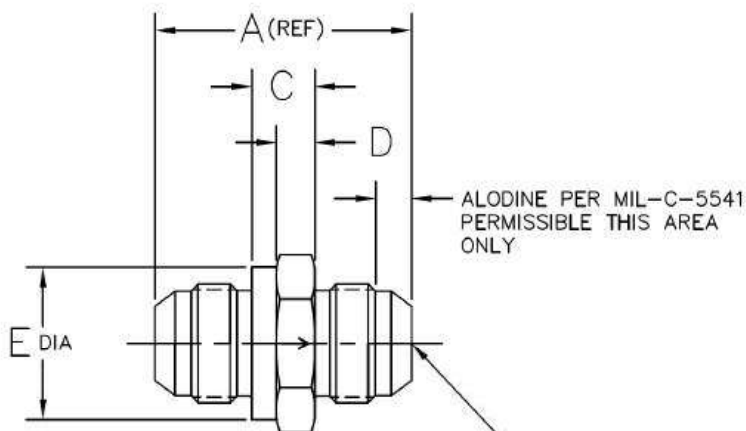
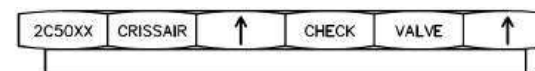
NONE AT 1000 TO 3000 PSID

MS24593-16	4C2116	1	1 5/16-12UNJ-3A	16	2.884	1.625	1.062	.375	1.615	29.0	.648
MS24593-12	4C2112	3/4	1 1/16-12UNJ-3A	12	2.290	1.375	.562	.343	1.365	16.0	.405
MS24593-10	4C2110	5/8	7/8-14UNJF-3A	10	2.047	1.125	.531	.312	1.115	10.5	.250
MS24593-8	4C2180	1/2	3/4-16UNJF-3A	8	1.814	1.00	.500	.281	.990	6.0	.189
MS24593-6	4C2160	3/8	9/16-18UNJF-3A	6	1.581	.813	.469	.250	.803	3.5	.104
MS24593-5	4C2150	5/16	1/2-20UNJF-3A	5	1.538	.750	.438	.219	.740	2.3	.078
MS24593-4	4C2140	1/4	7/16-20UNJF-3A	4	1.538	.688	.438	.219	.678	1.2	.070
MS P/N	CRISSAIR PART NO	TUBE OD	T THREAD	F	A REF	B HEX	C	D	E DIA	RATED FLOW (GPM)	MAX WT (LBS)

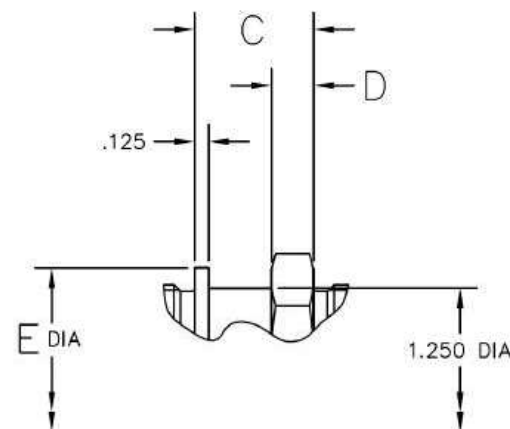
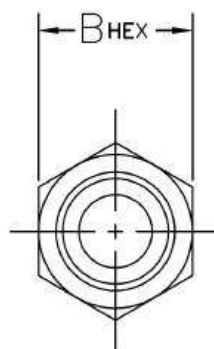
CATEGORY 1: CHECK VALVES, INLINE



PART NUMBER: 2C5000 CHECK VALVE, SERIES, FLARED



BOTH PORTS PER MS33656-F STYLE E



CONFIGURATION OF 2C5016 ONLY



PERFORMANCE SPECIFICATIONS:

FLUIDS: ALL AIRCRAFT HYDRAULIC FLUIDS

MATERIAL: BODY 2024-T351 AL

POPPET 440C CRES

TEMPERATURE RANGE: -65°F TO 300°F

OPERATING PRESSURE: 3000 PSIG

PROOF PRESSURE: 4500 PSIG

CRACKING PRESSURE: 2 TO 8 PSID

FLOW: SEE TABLE AT 10 PSID MAX

INTERNAL LEAKAGE (CHECKED DIRECTION):

1 DPM MAX AT 5 PSID

NONE AT 1000 TO 3000 PSID

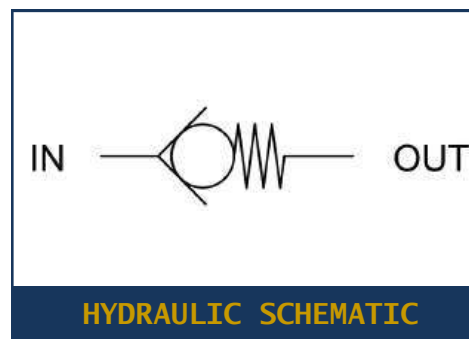
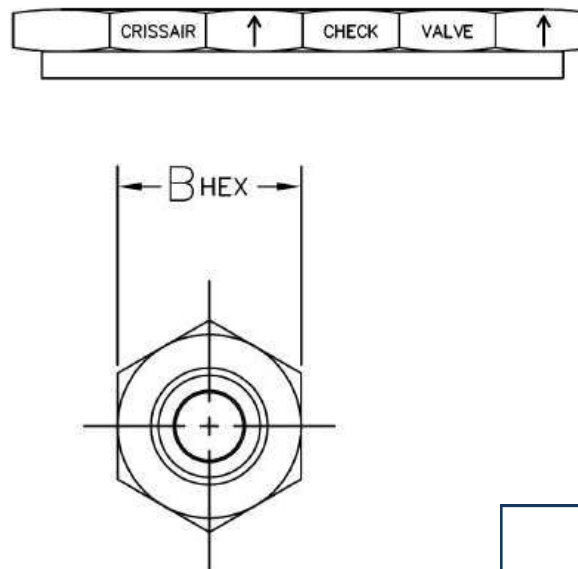
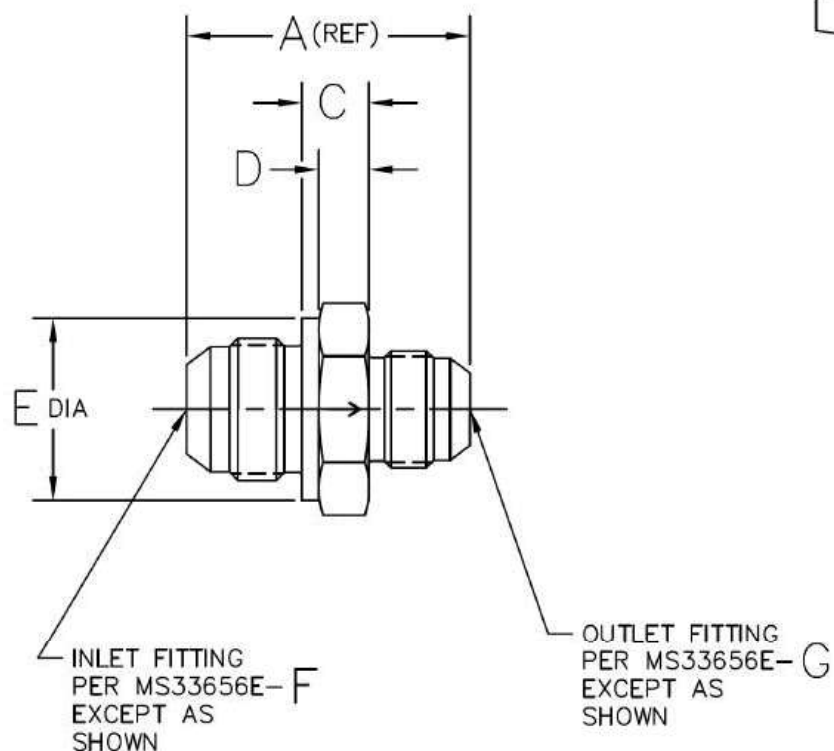
HYDRAULIC SCHEMATIC

2C5016	.273	1	16	2.884	1.625	1.062	.375	1.615	29.0	2C5017
2C5012	.162	3/4	12	2.290	1.375	.562	.343	1.365	16.0	2C5013
2C5010	.099	5/8	10	2.047	1.125	.531	.312	1.115	10.5	2C5011
2C5080	.077	1/2	8	1.814	1.000	.500	.281	.990	6.0	2C5081
2C5060	.039	3/8	6	1.581	.813	.469	.250	.803	3.5	2C5061
2C5050	.030	5/16	5	1.538	.750	.438	.219	.740	2.3	2C5051
2C5040	.026	1/4	4	1.538	.688	.438	.219	.678	1.2	2C5041
CRISSAIR PART NO	MAX WT (LBS)	TUBE OD	F	A REF	B HEX	C	D	E DIA	RATED FLOW (GPM)	APPLICABLE ASSY DWG NO

CATEGORY 1: CHECK VALVES, INLINE



PART NUMBER: 7C2100 CHECK VALVE, SERIES, FLARED



PERFORMANCE SPECIFICATIONS:

FLUIDS: ALL AIRCRAFT HYDRAULIC FLUIDS

MATERIAL: BODY 303 CRES

POPPET 440C CRES

TEMPERATURE RANGE: -65°F TO 275°F

OPERATING PRESSURE: 3000 PSIG

PROOF PRESSURE: 4500 PSIG

CRACKING PRESSURE: 2 TO 8 PSID

FLOW: SEE TABLE FOR FLOW OF MIL-H-83282 AT 100° ± 5°F

INTERNAL LEAKAGE (CHECKED DIRECTION):

1 DPM MAX AT 5 PSID

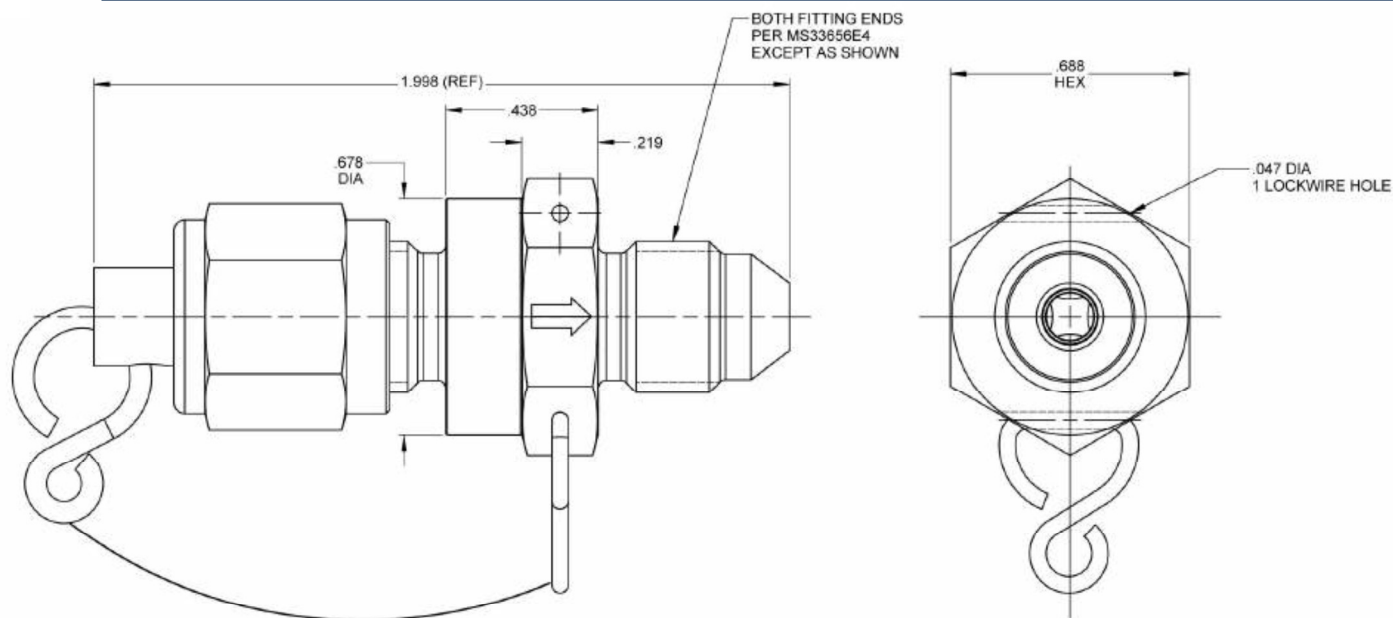
NONE AT 1000 TO 3000 PSID

7C2160	.120	6	5	1.575	.813	.469	.250	.803	2.3	15
7C2150	.100	5	4	1.569	.750	.469	.250	.740	1.2	15
7C2112	.600	16	12	2.275	1.625	.500	.375	1.615	16.0	15
7C2110	.405	12	10	2.125	1.375	.503	.375	1.365	10.5	15
7C2108	.250	10	8	1.946	1.125	.531	.312	1.115	6.0	15
7C2106	.189	8	6	1.713	1.000	.500	.250	.990	3.5	15
7C2104	.104	6	4	1.575	.813	.469	.250	.803	1.2	15
CRISSAIR PART NO	MAX WT (LBS)	INLET F FITTING	OUTLET G FITTING	A REF	B HEX	C	D	E DIA	RATED FLOW (GPM)	MAX ΔP PSID

CATEGORY 1: CHECK VALVES, INLINE



PART NUMBER: 1C2224 CHECK VALVE, FLARED



PERFORMANCE SPECIFICATIONS:

FLUIDS: ALL AIRCRAFT HYDRAULIC FLUIDS

MATERIAL: BODY 17-4PH CRES

BODY 303 CRES AVAILABLE FOR 1C1010

POPPET 440C CRES

TEMPERATURE RANGE: -65°F TO 275°F

OPERATING PRESSURE: 5600 PSIG

3000 PSIG FOR 1C1010

PROOF PRESSURE: 8400 PSIG

4500 PSIG FOR 1C1010

CRACKING PRESSURE: 2 TO 8 PSID

FLOW: 1.2 GPM AT 10 PSID MAX

INTERNAL LEAKAGE (CHECKED DIRECTION):

1 DPM MAX AT 5 PSID

NONE AT 1000 TO 3000 PSID

WEIGHT: .123 LBS MAX

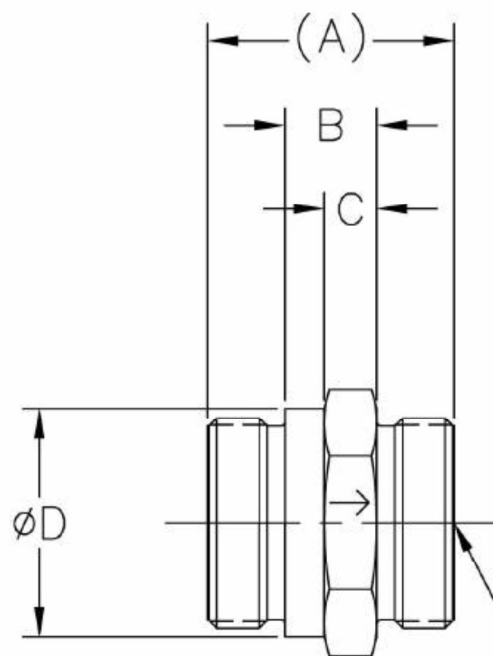


HYDRAULIC SCHEMATIC

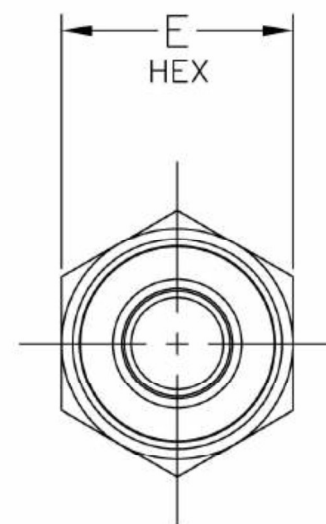
CATEGORY 1: CHECK VALVES, INLINE



PART NUMBER: 7C1550 CHECK VALVE, SERIES, BEAM SEAL



BOTH FITTING ENDS
PER AS85720/1-F
EXCEPT AS SHOWN



PERFORMANCE SPECIFICATIONS:

FLUIDS: ALL AIRCRAFT HYDRAULIC FLUIDS

MATERIAL: BODY 17-4PH CRES

POPPET 440C CRES

TEMPERATURE RANGE: -65°F TO 275°F

OPERATING PRESSURE: 5000 PSIG

PROOF PRESSURE: 7500 PSIG

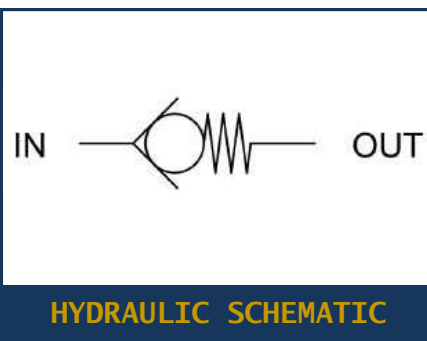
CRACKING PRESSURE: 2 TO 8 PSID

FLOW: SEE TABLE AT 15 PSID MAX

INTERNAL LEAKAGE (CHECKED DIRECTION):

1 DPM MAX AT 5 PSID

NONE AT 1000 TO 5000 PSID

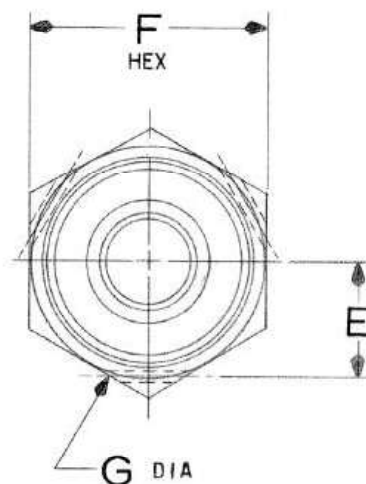
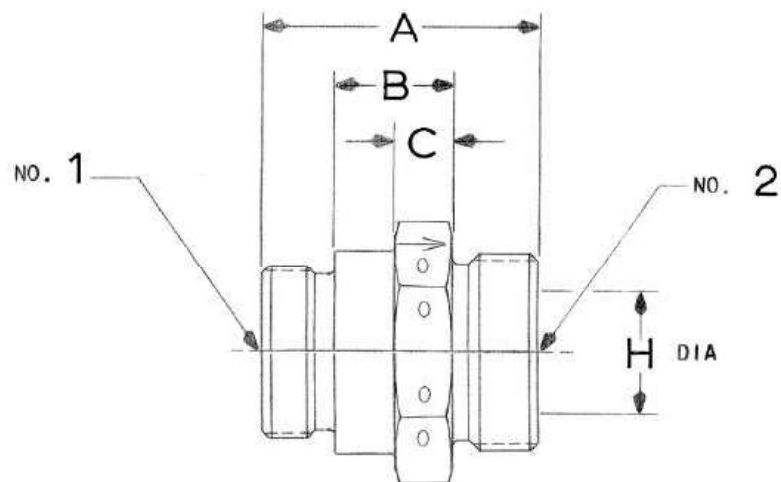


7C1566	16	1.465	.545	.312	1.365	1.375	16.0	.43
7C1562	12	1.260	.436	.281	1.115	1.125	10.5	.24
7C1560	10	1.140	.396	.250	.990	1.000	6.0	.17
7C1558	8	1.000	.384	.218	.803	.813	3.5	.11
7C1556	6	.840	.250	.188	.678	.688	1.2	.06
7C1554	4	.817	.267	.188	.615	.625	1.0	.04
CRISSAIR PART NO	F	(A)	B	C	ØD	E HEX	RATED FLOW (GPM)	MAX WT (LBS)

CATEGORY 1: CHECK VALVES, INLINE



PART NUMBER: 7C2700 CHECK VALVE, SERIES, BEAM SEAL



HYDRAULIC SCHEMATIC

PERFORMANCE SPECIFICATIONS:

FLUIDS: ALL AIRCRAFT HYDRAULIC FLUIDS

MATERIAL: BODY 17-4PH CRES

POPPET 440C CRES

TEMPERATURE RANGE: -65°F TO 275°F

OPERATING PRESSURE: 4000 PSIG

PROOF PRESSURE: 6000 PSIG

CRACKING PRESSURE: 2 TO 8 PSID

FLOW: SEE TABLE AT 15 PSID MAX

4C2812 AT 18 PSID MAX

4C2814 AT 25 PSID MAX

INTERNAL LEAKAGE (CHECKED DIRECTION):

1 DPM MAX AT 5 PSID

NONE AT 1000 TO 4000 PSID

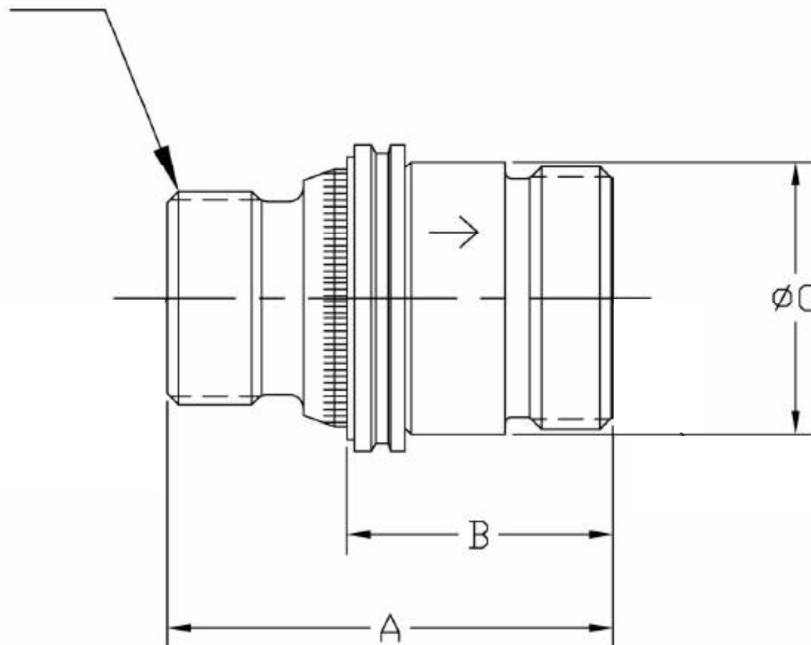
7C2714	R44090-14 1.1250-16 UNJ-3A	R44090-16 1.2500-14 UNJ-3A	1.688	.798	.312	.688	1.375	.070	.764 .770	22.0	.417
7C2712	R44090-12 1.0000-16 UNJ-3A	R44090-14 1.1250-16 UNJ-3A	1.410	.568	.312	.688	1.375	.070	.764 .770	16.0	.300
7C2710	R44090-10 .8438-18 UNJS-3A	R44090-12 1.0000-16 UNJ-3A	1.315	.531	.281	.562	1.125	.070	.639 .645	10.5	.213
7C2708	R44090-8 .7188-20 UNJS-3A	R44090-10 .8438-18 UNJS-3A	1.180	.500	.250	.500	1.000	.047	.513 .519	6.0	.175
7C2706	R44090-6 .5625-20 UNJS-3A	R44090-8 .7188-20 UNJS-3A	1.041	.438	.219	.406	.813	.047	.385 .390	3.5	.092
7C2704	R44090-4 .4375-24 UNJS-3A	R44090-6 .5625-20 UNJS-3A	1.008	.438	.188	.344	.688	.047	.260 .265	1.2	.072
CRISSAIR PART NO	FITTING END NO1	FITTING END NO2	(A)	B ±.015	C ±.015	E ±.015	F HEX ±.010	G DIA +.015 -.001	H DIA	RATED FLOW (GPM)	MAX WT (LBS)

CATEGORY 1: CHECK VALVES, INLINE



CHECK VALVE, SERIES, ROSAN/FLARELESS

FITTING END TO MATE WITH
ROSAN BOSS PS10035



HYDRAULIC SCHEMATIC

PERFORMANCE SPECIFICATIONS:

FLUIDS: ALL AIRCRAFT HYDRAULIC FLUIDS

MATERIAL: BODY 17-4 CRES

POPPET 440C CRES

LOCKRING A-286 CRES

TEMPERATURE RANGE: -65°F TO 275°F

OPERATING PRESSURE: 3000 PSIG

PROOF PRESSURE: 4500 PSIG

CRACKING PRESSURE: 2 TO 8 PSID

FLOW: SEE TABLE AT 15 PSID MAX

INTERNAL LEAKAGE (CHECKED DIRECTION):

1 DPM MAX AT 5 PSID

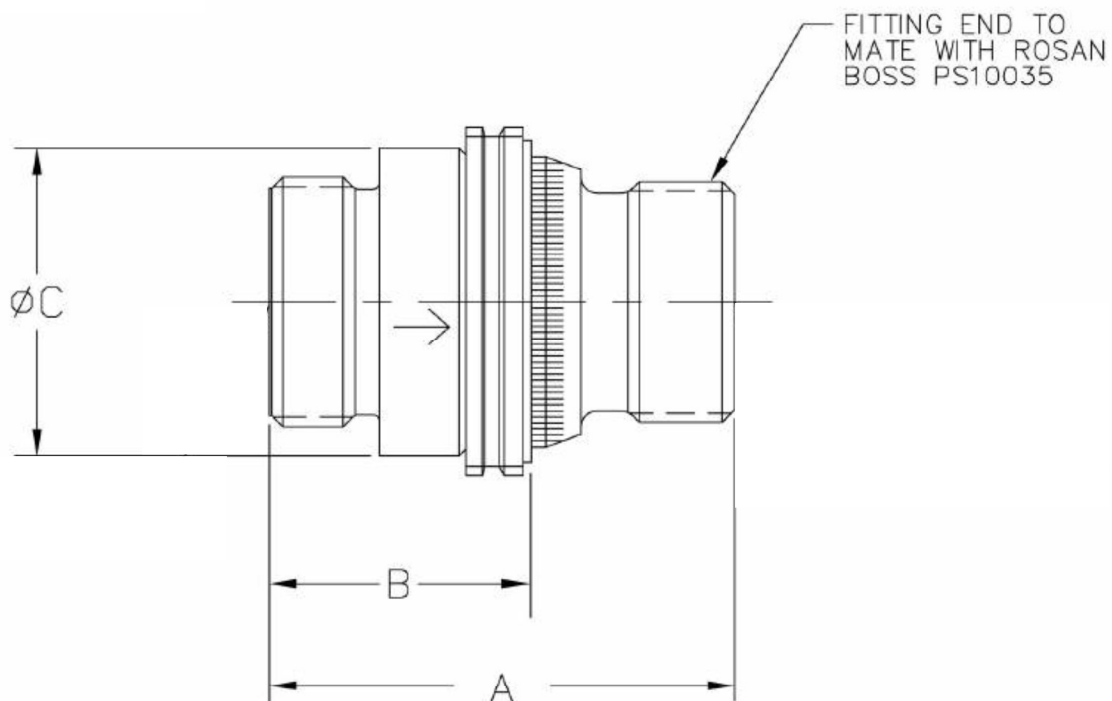
NONE AT 1000 TO 3000 PSID

4C2876-1	1	29.0	.611	-20 1.3125-18 UNJEF-3A	MS33514E16	2.320	1.554	1.400
4C2872-1	3/4	16.0	.283	-12 .8125-20 UNJEF-3A	MS33514E12	2.190	1.493	1.050
4C2870-1	5/8	10.5	.175	-10 .6785-24 UNJEF-3A	MS33514E10	1.920	1.285	.860
4C2868-1	1/2	6.0	.175	-10 .6785-24 UNJEF-3A	MS33514E8	1.800	1.165	.860
4C2866-1	3/8	3.5	.068	-6 .4375-20 UNJF-3A	MS33514E6	1.550	.985	.575
4C2864-1	1/4	1.2	.038	-4 .3125-24 UNJF-3A	MS33514E4	1.430	.919	.432
CRISSAIR PART NO	TUBE SIZE	FLOW (GPM)	MAX WT (LBS)	FITTING END NO 1 ROSAN (DRA 9 RF)	FITTING END NO 2 (FLARELESS TUBE)	A ±.015	B ±.020	C ±.015

CATEGORY 1: CHECK VALVES, INLINE



CHECK VALVE, SERIES, ROSAN/FLARELESS



HYDRAULIC SCHEMATIC

PERFORMANCE SPECIFICATIONS:

FLUIDS: ALL AIRCRAFT HYDRAULIC FLUIDS

MATERIAL: BODY 17-4 CRES

POPPET 440C CRES

LOCKRING A286 CRES

TEMPERATURE RANGE: -65°F TO 275°F

OPERATING PRESSURE: 3000 PSIG

PROOF PRESSURE: 4500 PSIG

CRACKING PRESSURE: 2 TO 8 PSID

FLOW: SEE TABLE AT 15 PSID MAX

INTERNAL LEAKAGE (CHECKED DIRECTION):

1 DPM MAX AT 5 PSID

NONE AT 1000 TO 3000 PSID

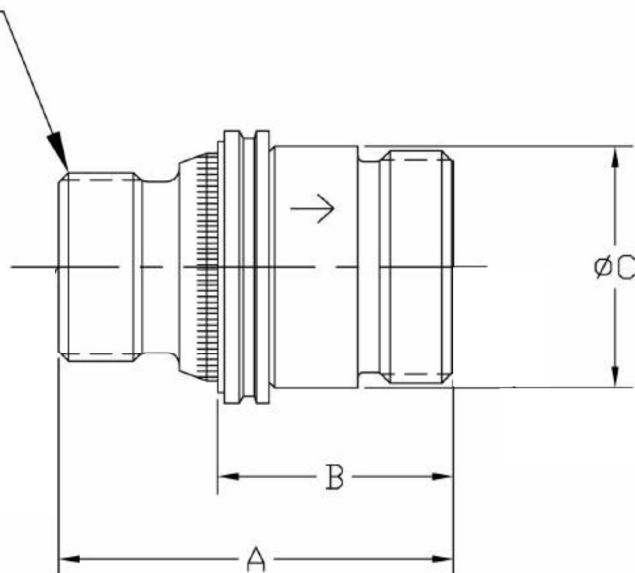
4C2876-2	1	29.0	MS33514E16	-20 1.3125-18 UNJEF-3A	2.420	1.655	1.400
4C2872-2	3/4	16.0	MS33514E12	-16 1.1250-18 UNJEF-3A	2.030	1.275	1.305
4C2870-2	5/8	10.5	MS33514E10	-12 .8125-20 UNJEF-3A	1.840	1.140	1.040
4C2868-2	1/2	6.0	MS33514E8	-10 .6785-24 UNJEF-3A	1.700	1.063	.860
4C2866-2	3/8	3.5	MS33514E6	-8 .5625-18 UNJF-3A	1.580	.980	.750 .711
4C2864-2	1/4	1.2	MS33514E4	-6 .4375-20 UNJF-3A	1.520	.955	.560
CRISSAIR PART NO	TUBE SIZE	FLOW (GPM)	FITTING END NO1 (FLARELESS TUBE)	FITTING END NO2 ROSAN (DRA 9 RF)	A ±.015	B ±.020	C ±.015

CATEGORY 1: CHECK VALVES, INLINE



CHECK VALVE, SERIES, ROSAN/DYNATUBE

FITTING END TO MATE WITH
ROSAN BOSS PS10035



HYDRAULIC SCHEMATIC

PERFORMANCE SPECIFICATIONS:

FLUIDS: ALL AIRCRAFT HYDRAULIC FLUIDS

MATERIAL: BODY 17-4PH CRES

POPPET 440C CRES

LOCKRING A-286 CRES

TEMPERATURE RANGE: -65°F TO 450°F

OPERATING PRESSURE: 3000 PSIG NOMINAL

PROOF PRESSURE: 4500 PSIG

CRACKING PRESSURE: 2 TO 8 PSID

FLOW: SEE TABLE AT 15 PSID

INTERNAL LEAKAGE (CHECKED DIRECTION):

1 DPM MAX AT 5 PSID

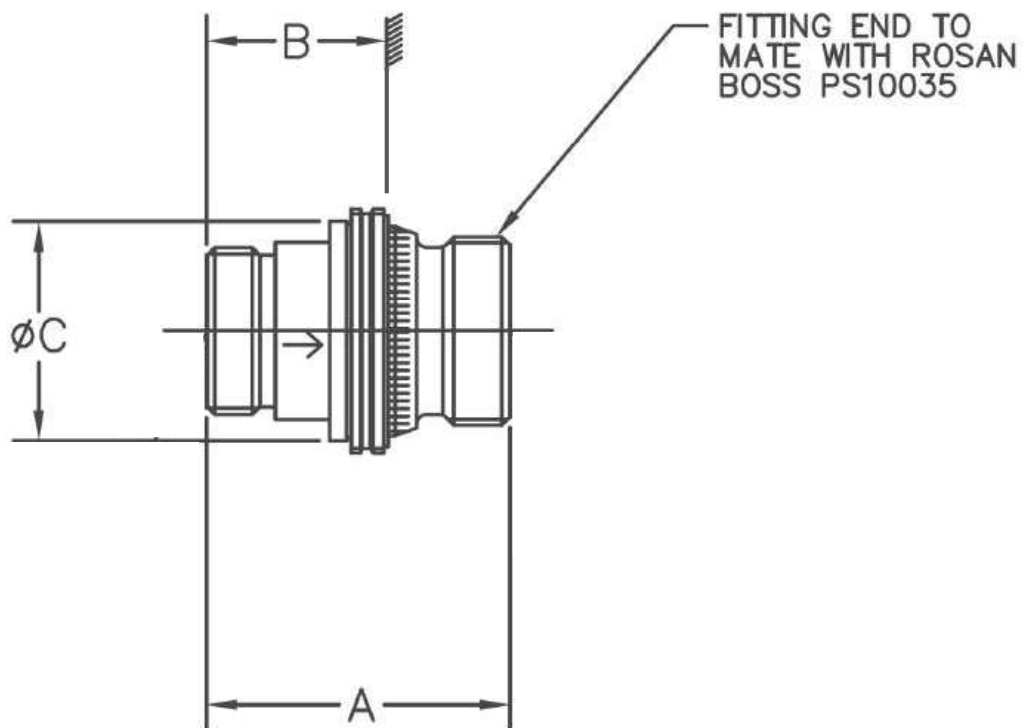
NONE AT 1000 TO 3000 PSID

4C6120-1	1 1/2	50.0	-24 1.625-18 UNJEF-3A	R44090-25S 1.8438-14 UNJS-3A	2.670	1.866	1.800	1.100
4C6116-1	1 1/4	29.0	-20 1.3125-18 UNJEF-3A	R44090-21S 1.5781-14 UNJS-3A	2.040	1.274	1.625 1.516	.660
4C6112-1	1	16.0	-16 1.1250-18 UNJEF-3A	R44090-16 1.2500-14 UNJS-3A	1.940	1.206	1.280	.640
4C6110-1	3/4	10.5	-12 .8125-20 UNJEF-3A	R44090-12 1.0000-16 UNJS-3A	1.700	1.003	1.040	.340
6C6108-1	5/8	6.0	-10 .6875-24 UNJEF-3A	R44090-10 .8438-18 UNJS-3A	1.580	.945	.860	.240
4C6106-1	1/2	3.5	-8 .5625-18 UNJF-3A	R44090-8 .7188-20 UNJS-3A	1.420	.820	.730	.150
4C6104-1	3/8	1.2	-6 .4375-20 UNJF-3A	R44090-6 .5625-20 UNJS-3A	1.360	.795	.577	.106
CRISSAIR PART NO	TUBE SIZE	FLOW (GPM)	FITTING END NO 1 ROSAN (DRA 9 RF)	FITTING END NO 2 DYNATUBE (TYPE A)	A ±.010	B ±.020	C ±.010	MAX WT (LBS)

CATEGORY 1: CHECK VALVES, INLINE



CHECK VALVE, SERIES, ROSAN/DYNATUBE



HYDRAULIC SCHEMATIC

PERFORMANCE SPECIFICATIONS:

FLUIDS: ALL AIRCRAFT HYDRAULIC FLUIDS

MATERIAL: BODY 17-4PH CRES

POPPET 440C CRES

LOCKRING A-286 CRES

TEMPERATURE RANGE: -65°F TO 450°F

OPERATING PRESSURE: 3000 PSIG NOMINAL

PROOF PRESSURE: 4500 PSIG

CRACKING PRESSURE: 2 TO 8 PSID

FLOW: SEE TABLE AT 15 PSID

INTERNAL LEAKAGE (CHECKED DIRECTION):

1 DPM MAX AT 5 PSID

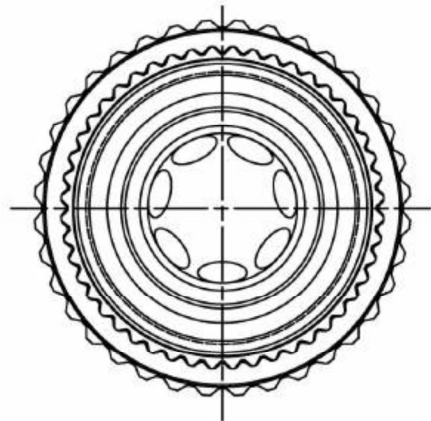
NONE AT 1000 TO 3000 PSID

4C6120-2	1 1/4	50.0	R44090-21S 1.5781-14 UNJS-3A	-24 1.6250-18 UNJEF-3A	2.700	1.896	1.600	1.010
4C6116-2	1	29.0	R44090-16 1.2500-14 UNJS-3A	-20 1.3125-18 UNJEF-3A	2.180	1.415	1.310	.550
4C6112-2	3/4	16.0	R44090-12 1.0000-16 UNJ-3A	-16 1.1250-18 UNJEF-3A	1.810	1.075	1.060	.340
4C6110-2	5/8	10.5	R44090-10 .8438-18 UNJS-3A	-12 .12520-20 UNJEF-3A	1.570	.870	1.040	.250
6C6108-2	1/2	6.0	R44090-8 .7188-20 UNJS-3A	-10 .6875-24 UNJEF-3A	1.450	.873	.870	.135
4C6106-2	3/8	3.5	R44090-6 .5625-20 UNJS-3A	-8 .5625-18 UNJEF-3A	1.380	.780	.720	.124
4C6104-2	1/4	1.2	R44090-4 .4375-24 UNJS-3A	-6 .4375-20 UNJEF-3A	1.330	.765	.577	.093
CRISSAIR PART NO.	TUBE SIZE	FLOW (GPM)	FITTING END ^{NO1} DYNATUBE (TYPE B)	FITTING END ^{NO2} ROSAN (DRA 9RF)	A ±.010	B ±.020	C ±.010	MAX WT (LBS)

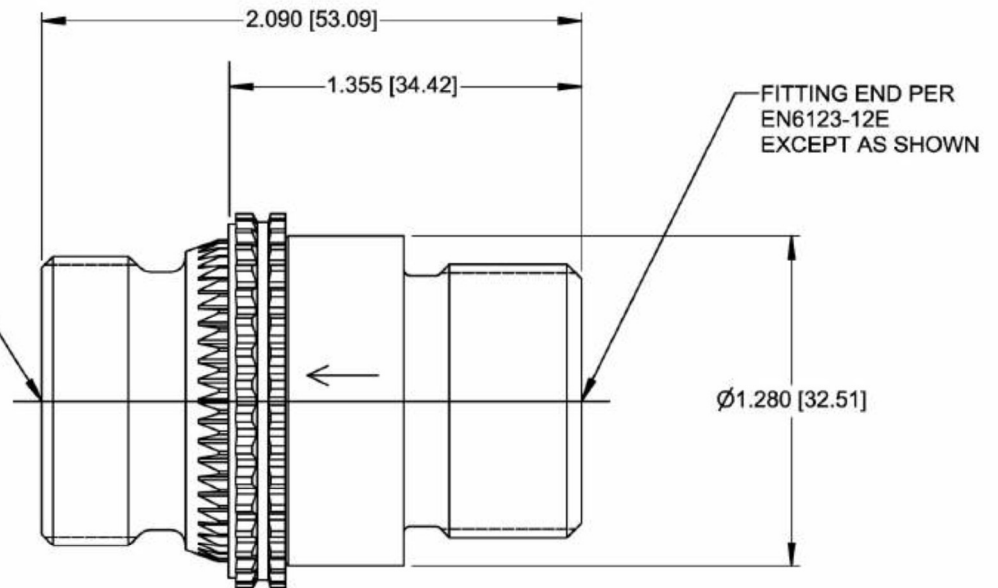
CATEGORY 1: CHECK VALVES, INLINE



PART NUMBER: 7C1112 CHECK VALVE, ROSAN/FLARELESS



FITTING END TO MATE
WITH AS1300-16
EXCEPT AS SHOWN



PERFORMANCE SPECIFICATIONS:

FLUIDS: ALL AIRCRAFT HYDRAULIC FLUIDS
MATERIAL: BODY 15-5PH CRES
POPPET PH13-8MO
LOCKRING A-286 CRES
TEMPERATURE RANGE: -65°F TO 275°F
OPERATING PRESSURE: 5000 PSIG
PROOF PRESSURE: 7500 PSIG
CRACKING PRESSURE: 2 TO 8 PSID
FLOW: 11.23 GPM AT 8 PSID MAX
INTERNAL LEAKAGE (CHECKED DIRECTION):
1 DPM MAX AT 5 PSID
NONE AT 1000 TO 5000 PSID
WEIGHT: .437 LBS MAX

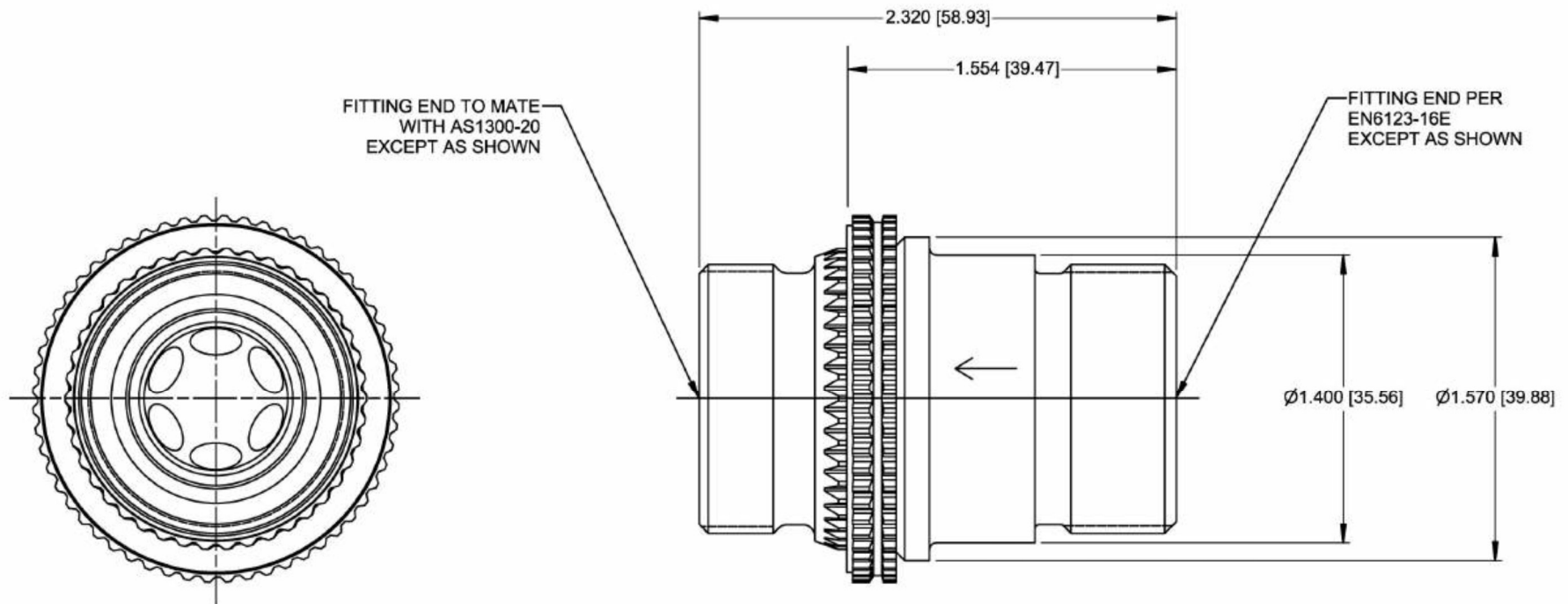


HYDRAULIC SCHEMATIC

CATEGORY 1: CHECK VALVES, INLINE



PART NUMBER: 7C1116 CHECK VALVE, ROSAN/FLARELESS



PERFORMANCE SPECIFICATIONS:

FLUIDS: ALL AIRCRAFT HYDRAULIC FLUIDS
MATERIAL: BODY 15-5PH CRES
POPPET PH13-8MO
LOCKRING A-286 CRES
TEMPERATURE RANGE: -65°F TO 275°F
OPERATING PRESSURE: 5000 PSIG
PROOF PRESSURE: 7500 PSIG
CRACKING PRESSURE: 2 TO 8 PSID
FLOW: 20 GPM AT 15 PSID MAX
INTERNAL LEAKAGE (CHECKED DIRECTION):
1 DPM MAX AT 5 PSID
NONE AT 1000 TO 5000 PSID
WEIGHT: .587 LBS MAX



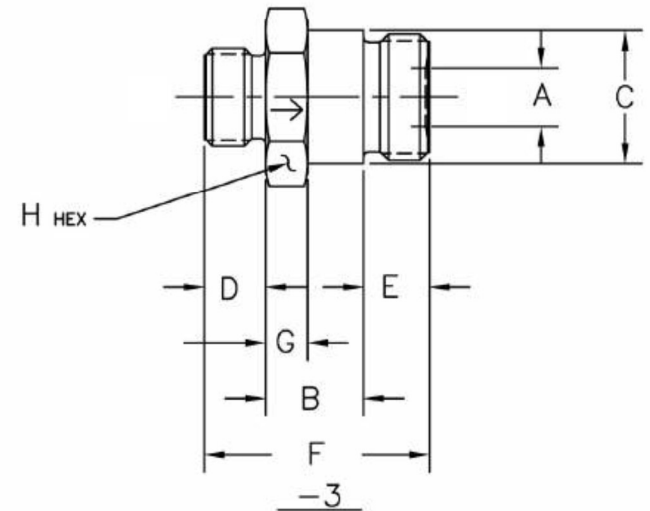
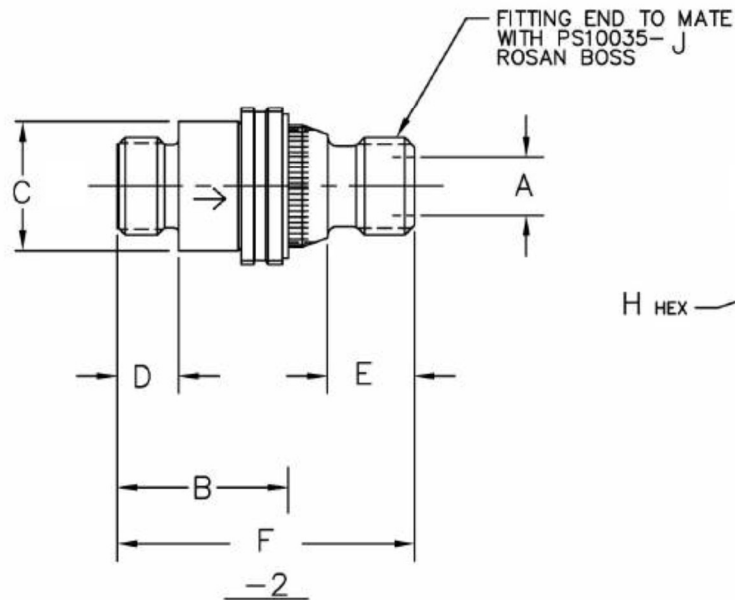
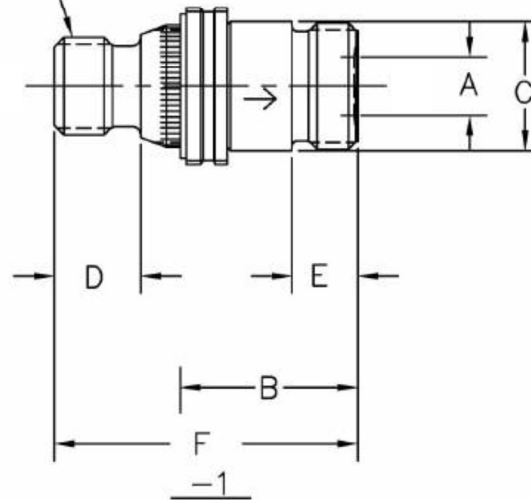
HYDRAULIC SCHEMATIC

CATEGORY 1: CHECK VALVES, INLINE



PART NUMBER: 4C2600 CHECK VALVE, SERIES

FITTING END TO MATE WITH
PS10035-J ROSAN BOSS



PERFORMANCE SPECIFICATIONS:

FLUIDS: ALL AIRCRAFT HYDRAULIC FLUIDS

MATERIAL: BODY 17-4PH CRES

POPPET 440C CRES

LOCKRING (-1 & -2 ONLY) A-286 CRES

TEMPERATURE RANGE: -65°F TO 450°F

OPERATING PRESSURE: 5000 PSIG NOMINAL

PROOF PRESSURE: 7500 PSIG

CRACKING PRESSURE: 2 TO 8 PSID

FLOW: SEE TABLE AT 15 PSID MAX

INTERNAL LEAKAGE (CHECKED DIRECTION):

1 DPM MAX AT 5 PSID

NONE AT 1000 TO 5000 PSID



HYDRAULIC SCHEMATIC

FULL TABLE ON NEXT PAGE

PHYSICAL SPECIFICATIONS

CATEGORY 1: CHECK VALVES, INLINE



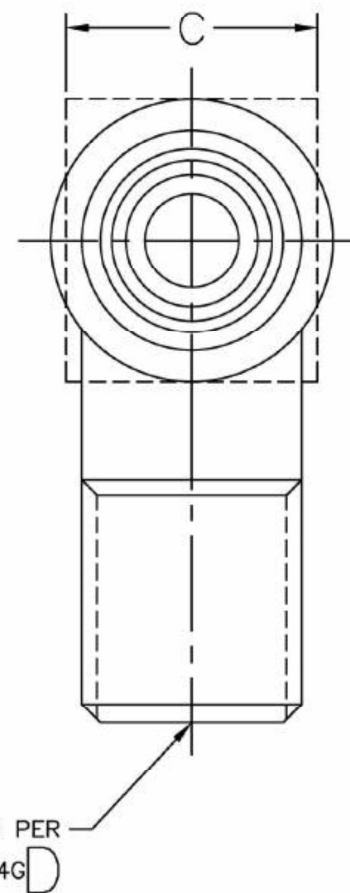
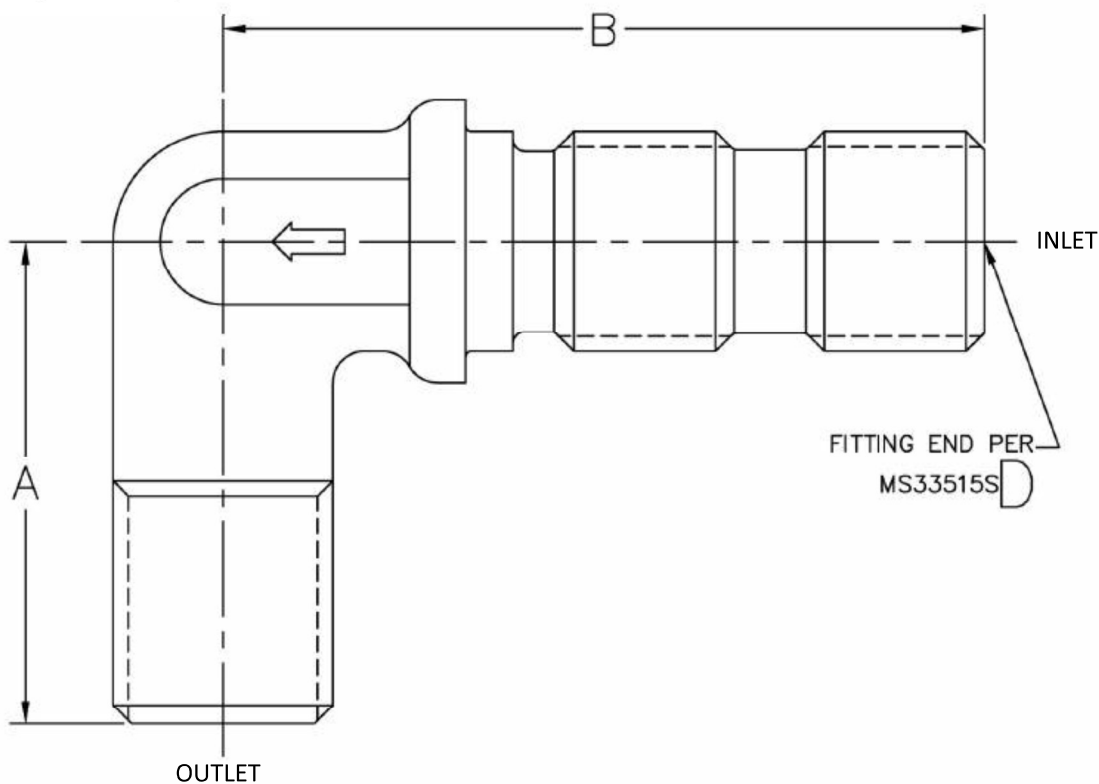
PART NUMBER: 4C2600 CHECK VALVE, SERIES

4C6120-1	ROSAN-24 (1.6250-18 UNJEF-3A)	DYNATUBE R44090-25S (1.8438-14 UNJS-3A)	1.275 1.267	1.886 1.846	1.800	.600	.565 .535	2.670	-	-	24	50.0	1.100
4C6120-2	DYNATUBE R44090-21S (1.5781-14 UNJS-3A)	ROSAN-24 (1.6250-18 UNJEF-3A)	1.275 1.267	1.916 1.876	1.800	.457	.600	2.700	-	-	24	50.0	1.010
4C6120-3	DYNATUBE R44090-21S (1.5781-14 UNJS-3A)	DYNATUBE R44090-25S (1.8438-14 UNJS-3A)	1.275 1.267	-	1.510	.457	.450 .420	2.700	.480	2.000	-	50.0	-
4C6116-1	ROSAN-20 (1.3125-18 UNJEF-3A)	DYNATUBE R44090-21S (1.5781-14 UNJS-3A)	1.021 1.013	1.294 1.254	1.250	.561	.365 .335	2.040	-	-	20	29.0	.660
4C6116-2	DYNATUBE R44090-16 (1.2500-14 UNJS-3A)	ROSAN-20 (1.3125-18 UNJEF-3A)	1.021 1.013	1.426 1.402	1.510	.460	.560	2.180	-	-	20	29.0	.550
4C6116-3	DYNATUBE R44090-16 (1.2500-14 UNJS-3A)	DYNATUBE R44090-21S (1.5781-14 UNJS-3A)	1.021 1.013	-	1.250	.460	.365 .335	1.840	.380	1.625	-	29.0	.570
4C6112-1	ROSAN-16 (1.1250-18 UNJEF-3A)	DYNATUBE R44090-16 (1.2500-14 UNJS-3A)	.771 .763	1.226 1.186	1.280	.557	.460	1.940	-	-	16	16.0	.640
4C6112-2	DYNATUBE R44090-12 (1.0000-16 UNJ-3A)	ROSAN-16 (1.1250-18 UNJEF-3A)	.771 .763	1.088 1.064	1.310	.412	.557	1.810	-	-	16	16.0	.340
4C6112-3	DYNATUBE R44090-12 (1.0000-16 UNJ-3A)	DYNATUBE R44090-16 (1.2500-14 UNJS-3A)	.771 .763	-	.990	.412	.368 .338	1.440	.312	1.375	-	16.0	.360
4C6110-1	ROSAN-12 (.8125-20 UNJEF-3A)	DYNATUBE R44090-12 (1.0000-16 UNJ-3A)	.645 .639	1.023 .983	1.040	.520	.412	1.700	-	-	12	10.5	.340
4C6110-2	DYNATUBE R44090-10 (.8438-18 UNJS-3A)	ROSAN-12 (.8125-20 UNJEF-3A)	.645 .639	.885 .861	1.040	.372	.520	1.570	-	-	12	10.5	.250
4C6110-3	DYNATUBE R44090-10 (.8438-18 UNJS-3A)	DYNATUBE R44090-12 (1.0000-16 UNJ-3A)	.645 .639	.531	1.060	.372	.412	1.315	.281	1.125	-	10.5	.270
6C6108-1	ROSAN-10 (.6875-24 UNJEF-3A)	DYNATUBE R44090-10 (.8438-18 UNJS-3A)	.519 .513	.945	.860	.458	.372	1.580	-	-	10	6.0	.240
6C6108-2	DYNATUBE R44090-8 (.7188-20 UNJS-3A)	ROSAN-10 (.6875-24 UNJEF-3A)	.519 .513	.827 .803	.870	.308	.458	1.450	-	-	10	6.0	.135
6C6108-3	DYNATUBE R44090-8 (.7188-20 UNJS-3A)	DYNATUBE R44090-10 (.8438-18 UNJS-3A)	.519 .513	.500	.875	.308	.372	1.180	.250	1.000	-	6.0	.195
4C6106-1	ROSAN-8 (.5625-18 UNJF-3A)	DYNATUBE R44090-8 (.7188-20 UNJS-3A)	.390 .385	.840 .800	.730	.422	.308	1.420	-	-	08	3.5	.150
4C6106-2	DYNATUBE R44090-6 (.5625-20 UNJS-3A)	ROSAN-8 (.5625-18 UNJF-3A)	.390 .385	.800 .760	.720	.295	.422	1.380	-	-	08	3.5	.124
4C6106-3	DYNATUBE R44090-6 (.5625-20 UNJS-3A)	DYNATUBE R44090-8 (.7188-20 UNJS-3A)	.390 .385	.438	.780	.295	.308	1.041	.188	.812	-	3.5	.127
4C6104-1	ROSAN-6 (.4375-20 UNJF-3A)	DYNATUBE R44090-6 (.5625-20 UNJS-3A)	.265 .260	.815 .775	.577	.388	.295	1.360	-	-	06	1.2	.106
4C6104-2	DYNATUBE R44090-4 (.4375-24 UNJS-3A)	ROSAN-6 (.4375-24 UNJF-3A)	.265 .260	.785 .745	.577	.275	.388	1.330	-	-	06	1.2	.093
4C6104-3	DYNATUBE R44090-4 (.4375-24 UNJS-3A)	DYNATUBE R44090-6 (.5625-20 UNJS-3A)	.265 .260	.438	.593	.275	.295	1.008	.188	.688	-	1.2	.081
CRISSAIR PART NO	FITTING END ^{NO} 1	FITTING END ^{NO} 2	ØA	B	ØC	D	E	F	G	H	J	RATED FLOW (GPM)	MAX WT (LBS)

CATEGORY 1: CHECK VALVES, INLINE



PART NUMBER: 1C6226 CHECK VALVE, SERIES, FLARELESS



PERFORMANCE SPECIFICATIONS:

FLUIDS: ALL AIRCRAFT HYDRAULIC FLUIDS

MATERIAL: BODY 303 CRES

POPPET 440C CRES

TEMPERATURE RANGE: -65°F TO 275°F

OPERATING PRESSURE: 3000 PSIG

PROOF PRESSURE: 4500 PSIG

CRACKING PRESSURE: 2 TO 8 PSID

FLOW: SEE TABLE AT 15 PSID MAX

INTERNAL LEAKAGE (CHECKED DIRECTION):

1 DPM MAX AT 5 PSID

NONE AT 1000 TO 3000 PSID



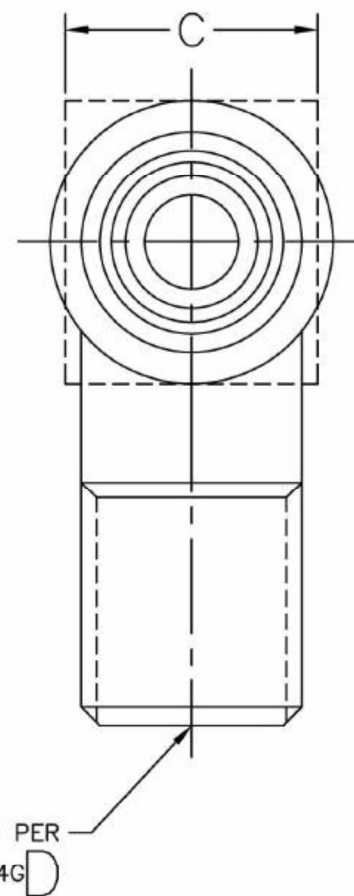
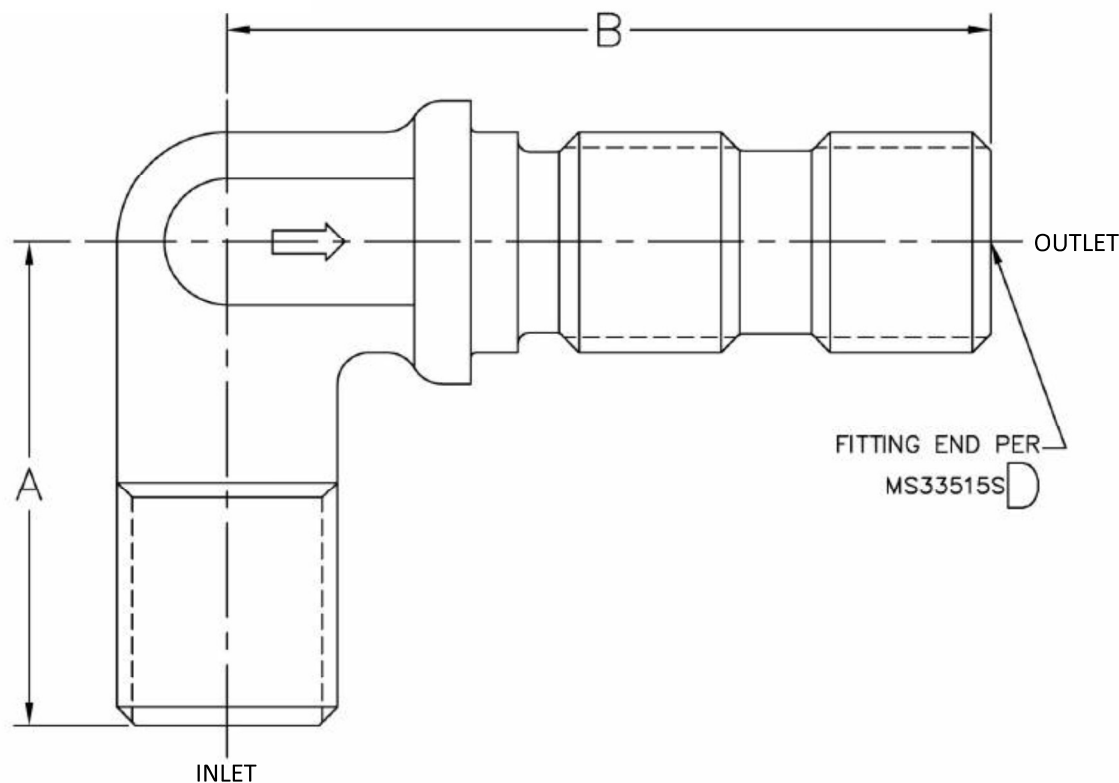
HYDRAULIC SCHEMATIC

1C6226-16	2.438	2.594	1.500	16	29.0
1C6226-12	1.906	2.468	1.250	12	16.0
1C6226-10	1.671	2.250	1.000	10	10.0
1C6226-8	1.500	1.968	.875	8	6.0
1C6226-6	1.266	1.688	.625	6	3.5
1C6226-5	1.156	1.532	.625	5	2.3
1C6226-4	1.062	1.500	.500	4	1.2
CRISSAIR PART NO	A +.046 -.000	B +.046 -.000	C ±.015	D	RATED FLOW (GPM)

CATEGORY 1: CHECK VALVES, INLINE



PART NUMBER: 1C6228 CHECK VALVE, SERIES, FLARELESS



PERFORMANCE SPECIFICATIONS:

FLUIDS: ALL AIRCRAFT HYDRAULIC FLUIDS

MATERIAL: BODY 303 CRES

POPPET 440C CRES

TEMPERATURE RANGE: -65°F TO 275°F

OPERATING PRESSURE: 3000 PSIG

PROOF PRESSURE: 4500 PSIG

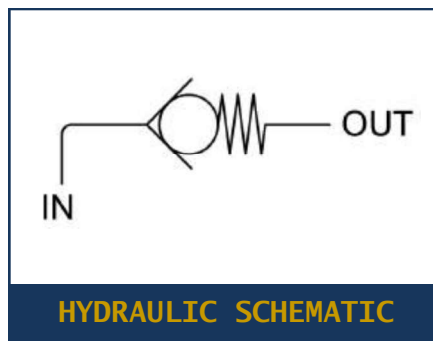
CRACKING PRESSURE: 2 TO 8 PSID

FLOW: SEE TABLE AT 15 PSID MAX

INTERNAL LEAKAGE (CHECKED DIRECTION):

1 DPM MAX AT 5 PSID

NONE AT 1000 TO 3000 PSID



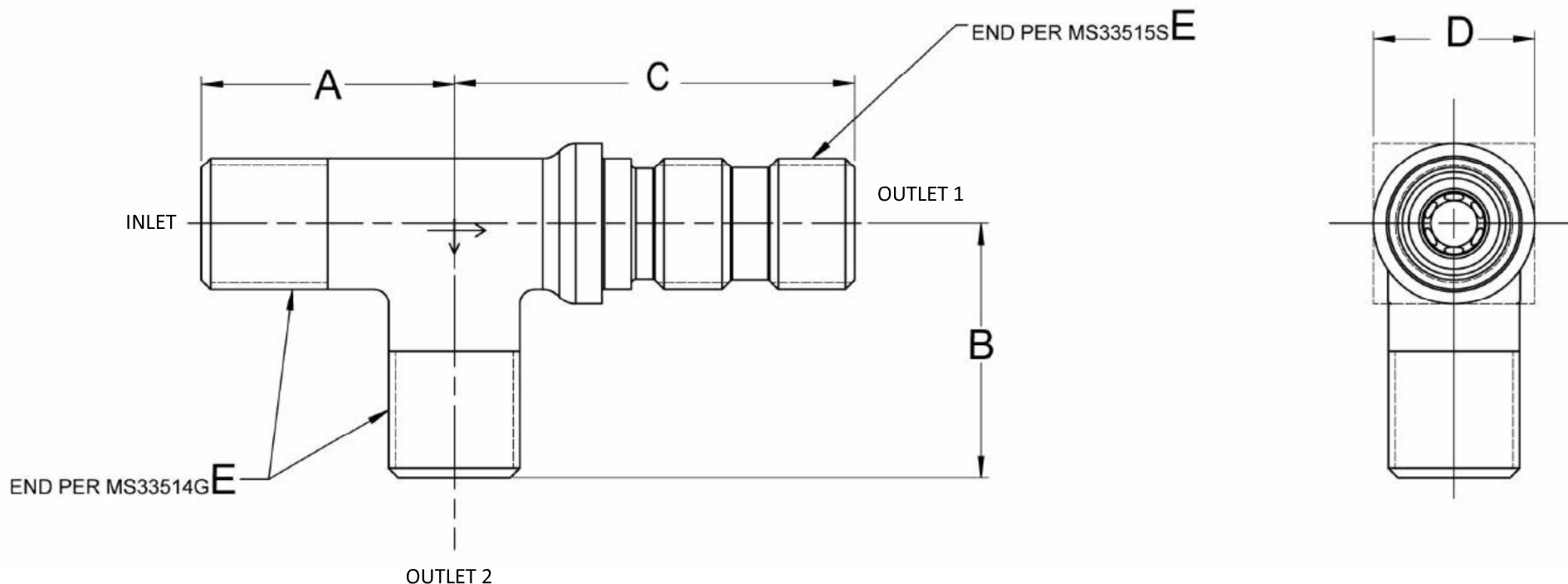
HYDRAULIC SCHEMATIC

1C6228-16	1.718	2.594	1.500	16	29.0
1C6228-12	1.625	2.468	1.250	12	16.0
1C6228-10	1.500	2.250	1.000	10	10.0
1C6228-8	1.312	1.968	.875	8	6.0
1C6228-6	1.062	1.688	.625	6	3.5
1C6228-5	1.032	1.532	.625	5	2.3
1C6228-4	.938	1.500	.500	4	1.2
CRISSAIR PART NO	A +.046 -.000	B +.046 -.000	C ±.015	D	RATED FLOW (GPM)

CATEGORY 1: CHECK VALVES, INLINE



PART NUMBER: 1C6230 CHECK VALVE, SERIES, FLARELESS



PERFORMANCE SPECIFICATIONS:

FLUIDS: ALL AIRCRAFT HYDRAULIC FLUIDS

MATERIAL: BODY 303 CRES

POPPET 440C CRES

TEMPERATURE RANGE: -65°F TO 275°F

OPERATING PRESSURE: 3000 PSIG

PROOF PRESSURE: 4500 PSIG

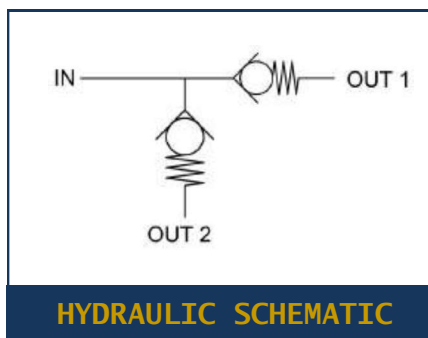
CRACKING PRESSURE: 2 TO 8 PSID

FLOW: SEE TABLE AT 15 PSID MAX

INTERNAL LEAKAGE (CHECKED DIRECTION):

1 DPM MAX AT 5 PSID

NONE AT 1000 TO 3000 PSID



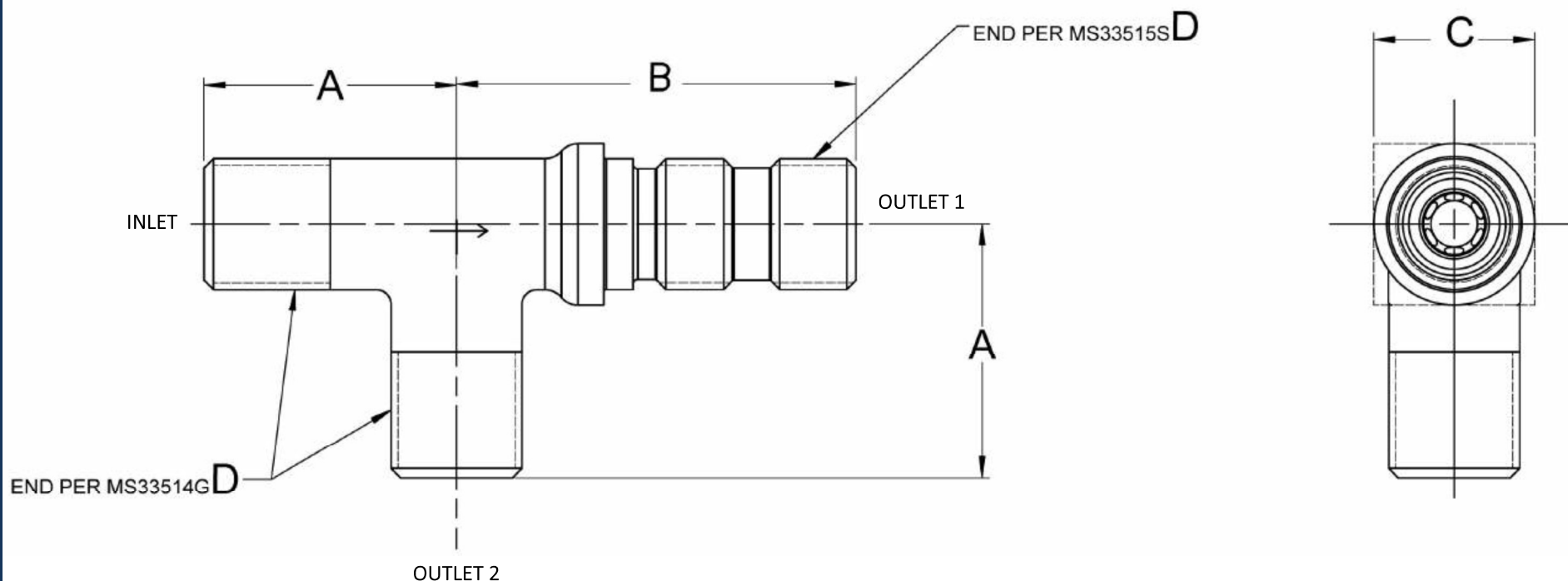
HYDRAULIC SCHEMATIC

1C6230-16	1.718	2.438	2.594	1.500	16	29.0
1C6230-12	1.625	1.906	2.468	1.250	12	16.0
1C6230-10	1.500	1.671	2.250	1.000	10	10.0
1C6230-8	1.312	1.500	1.968	.875	8	6.0
1C6230-6	1.062	1.062 1.090	1.688	.625	6	3.5
1C6230-5	1.032	1.156	1.532	.625	5	2.3
1C6230-4	.938	1.062	1.500	.500	4	1.2
CRISSAIR PART NO	A +.046 -.000	B +.046 -.000	C +.046 -.000	D ±.015	E	RATED FLOW (GPM)

CATEGORY 1: CHECK VALVES, INLINE



PART NUMBER: 1C6232 CHECK VALVE, SERIES, FLARELESS



PERFORMANCE SPECIFICATIONS:

FLUIDS: ALL AIRCRAFT HYDRAULIC FLUIDS

MATERIAL: BODY 2024-T4 AL

POPPET 440C CRES

TEMPERATURE RANGE: -65°F TO 275°F

OPERATING PRESSURE: 3000 PSIG

PROOF PRESSURE: 4500 PSIG

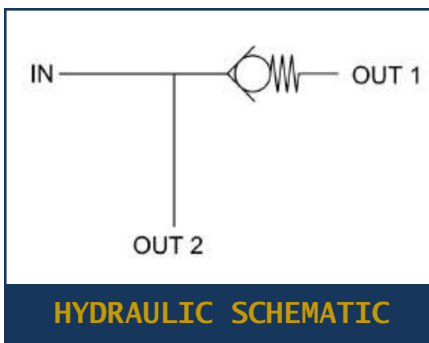
CRACKING PRESSURE: 2 TO 8 PSID

FLOW: SEE TABLE AT 15 PSID MAX

INTERNAL LEAKAGE (CHECKED DIRECTION):

1 DPM MAX AT 5 PSID

NONE AT 1000 TO 3000 PSID

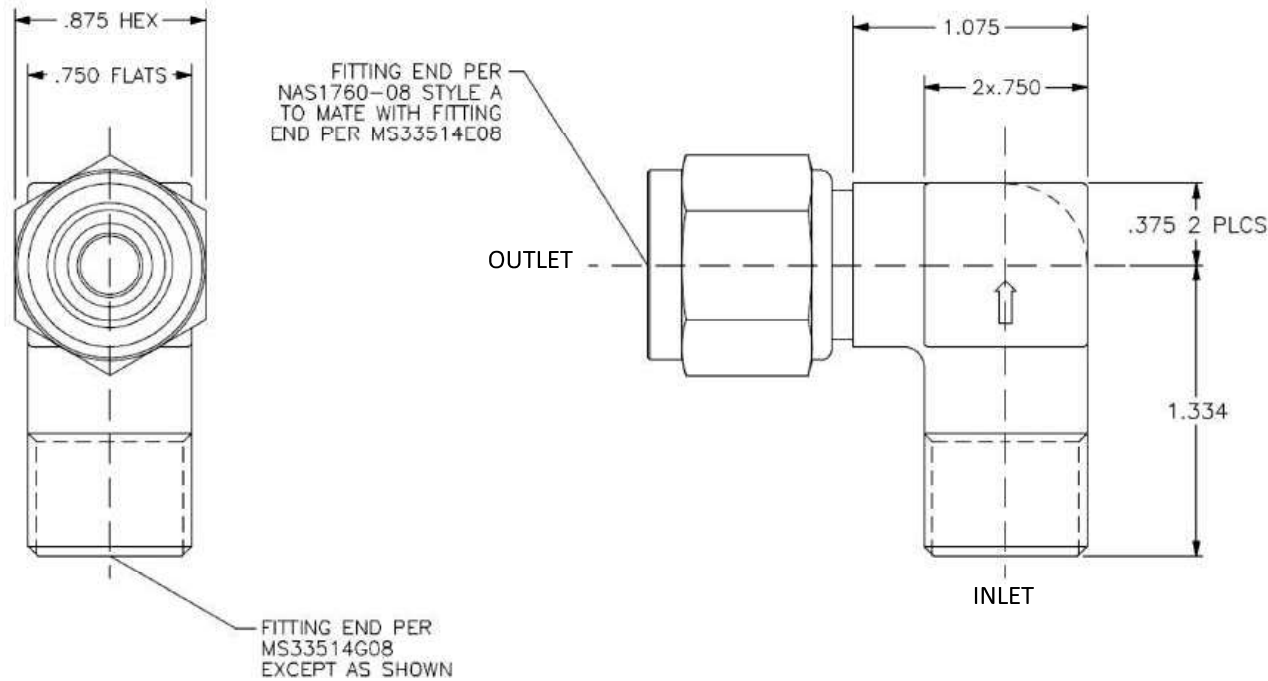


1C6232-16	1.718	2.594	1.500	16	29.0
1C6232-12	1.625	2.468	1.250	12	16.0
1C6232-10	1.500	2.250	1.000	10	10.0
1C6232-8	1.312	1.968	.875	8	6.0
1C6232-6	1.062	1.688	.625	6	3.5
1C6232-5	1.032	1.532	.625	5	2.3
1C6232-4	.938	1.500	.500	4	1.2
CRISSAIR PART NO	A +.046 -.000	B +.046 -.000	C ±.015	D	RATED FLOW (GPM)

CATEGORY 1: CHECK VALVES, INLINE



PART NUMBER: 1C4782 CHECK VALVE, B-NUT/FLARELESS



PERFORMANCE SPECIFICATIONS:

FLUIDS: ALL AIRCRAFT HYDRAULIC FLUIDS

MATERIAL: BODY 304 CRES

POPPET 440C CRES

SWIVEL NUT 304 CRES

TEMPERATURE RANGE: -65°F TO 275°F

OPERATING PRESSURE: 3000 PSIG

PROOF PRESSURE: 4500 PSIG

CRACKING PRESSURE: 2 TO 8 PSID

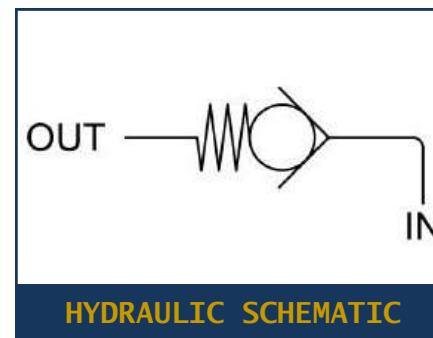
FLOW: 3.5 GPM AT 15 PSID MAX

INTERNAL LEAKAGE (CHECKED DIRECTION):

1 DPM MAX AT 5 PSID

NONE AT 1000 TO 3000 PSID

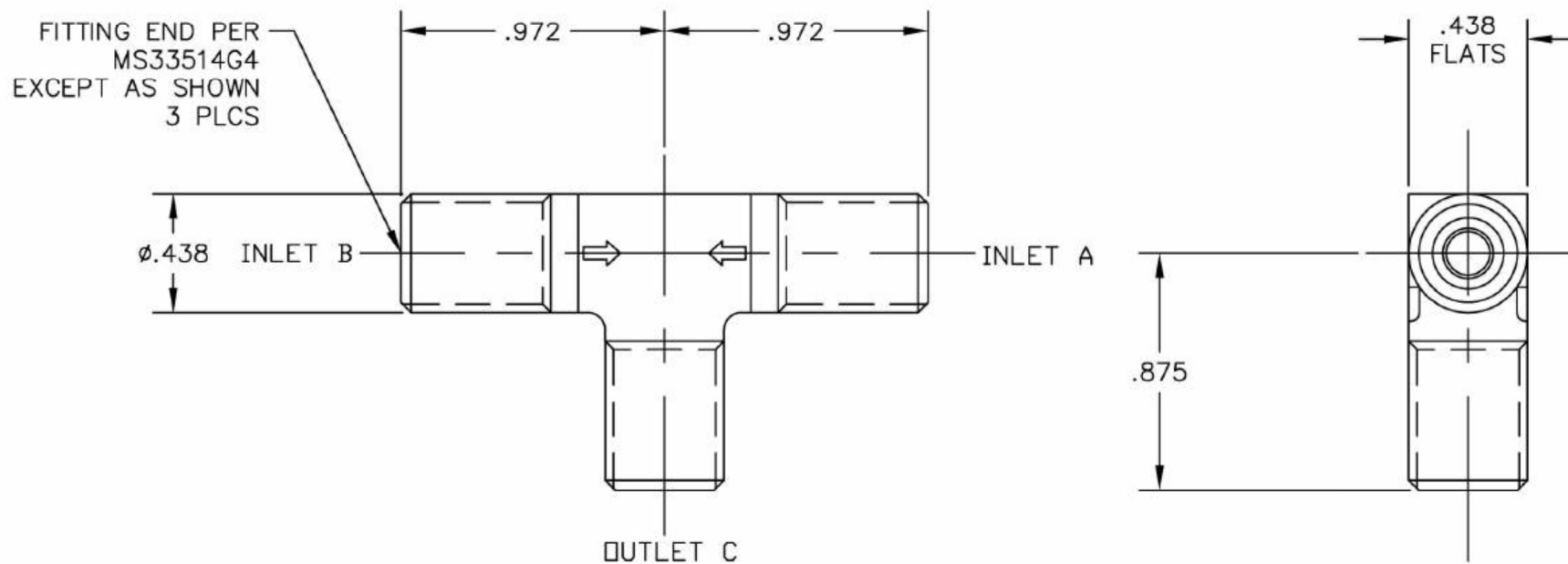
WEIGHT: .37 LBS MAX



CATEGORY 1: CHECK VALVES, INLINE

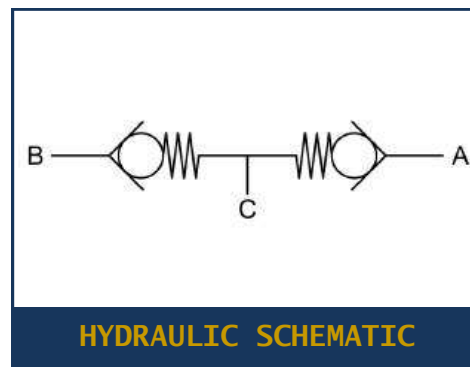


PART NUMBER: 1C6198 CHECK VALVE, TEE FLOW, FLARELESS



PERFORMANCE SPECIFICATIONS:

FLUIDS: ALL AIRCRAFT HYDRAULIC FLUIDS OR BLEED AIR
 MATERIAL: BODY 347 CRES
 POPPET 440C CRES
 TEMPERATURE RANGE: -65°F TO 860°F (FLUID)
 -65°F TO 250°F (AMBIENT)
 OPERATING PRESSURE: 2 TO 300 PSIG
 PROOF PRESSURE: 675 PSIG AT ROOM TEMPERATURE
 OPENING PRESSURE: FULLY OPEN AT 1 PSID
 CLOSING PRESSURE: 0 TO 8 PSID IN REVERSE FLOW DIRECTION
 FLOW: 1.5 GPM AT 7 PSID MAX AT 100°F (HYDRAULIC FLUID)
 INTERNAL LEAKAGE (CHECKED DIRECTION):
 5.0 SCFH MAX AT 300 PSID
 IN REVERSE FLOW DIRECTION (BLEED AIR)
 WEIGHT: .090 LBS MAX

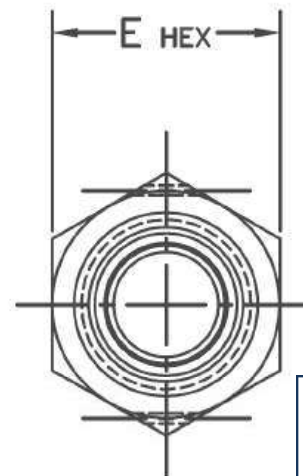
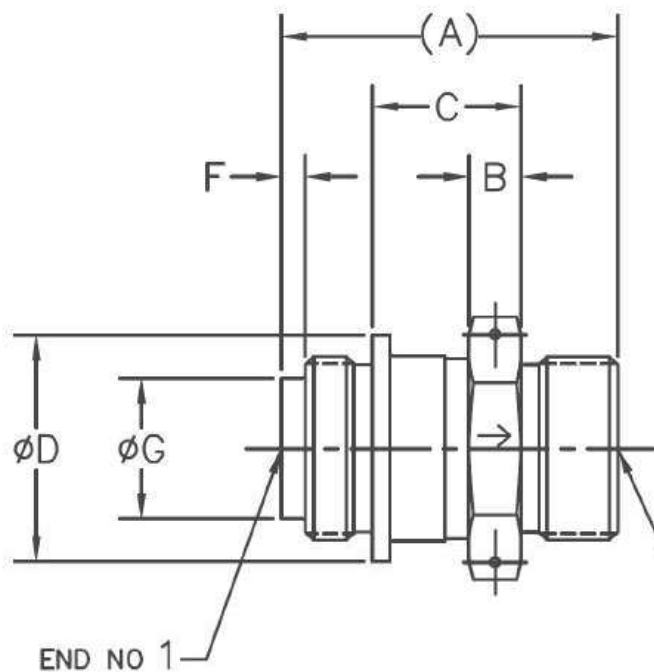


HYDRAULIC SCHEMATIC

CATEGORY 1: CHECK VALVES, INLINE



CHECK VALVE, SERIES, FLARELESS/MOD



ALSO AVAILABLE WITH BODY
IN AL ALLOY AND TITANIUM



HYDRAULIC SCHEMATIC

PERFORMANCE SPECIFICATIONS:

FLUIDS: ALL AIRCRAFT HYDRAULIC FLUIDS

MATERIAL: BODY 15-5PH CRES

POPPET 440C CRES

TEMPERATURE RANGE: -65°F TO 275°F

OPERATING PRESSURE: 3000 PSIG

PROOF PRESSURE: 4500 PSIG

CRACKING PRESSURE: 2 TO 8 PSID

FLOW: SEE TABLE AT 15 PSID MAX

INTERNAL LEAKAGE (CHECKED DIRECTION):

1 DPM AT 0 TO 1000 PSID

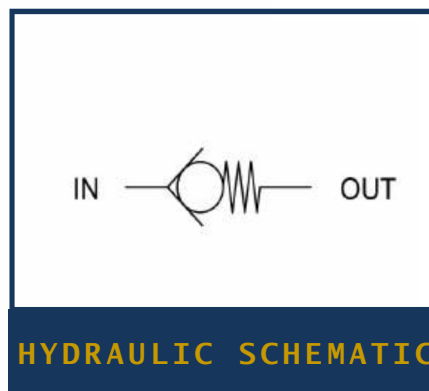
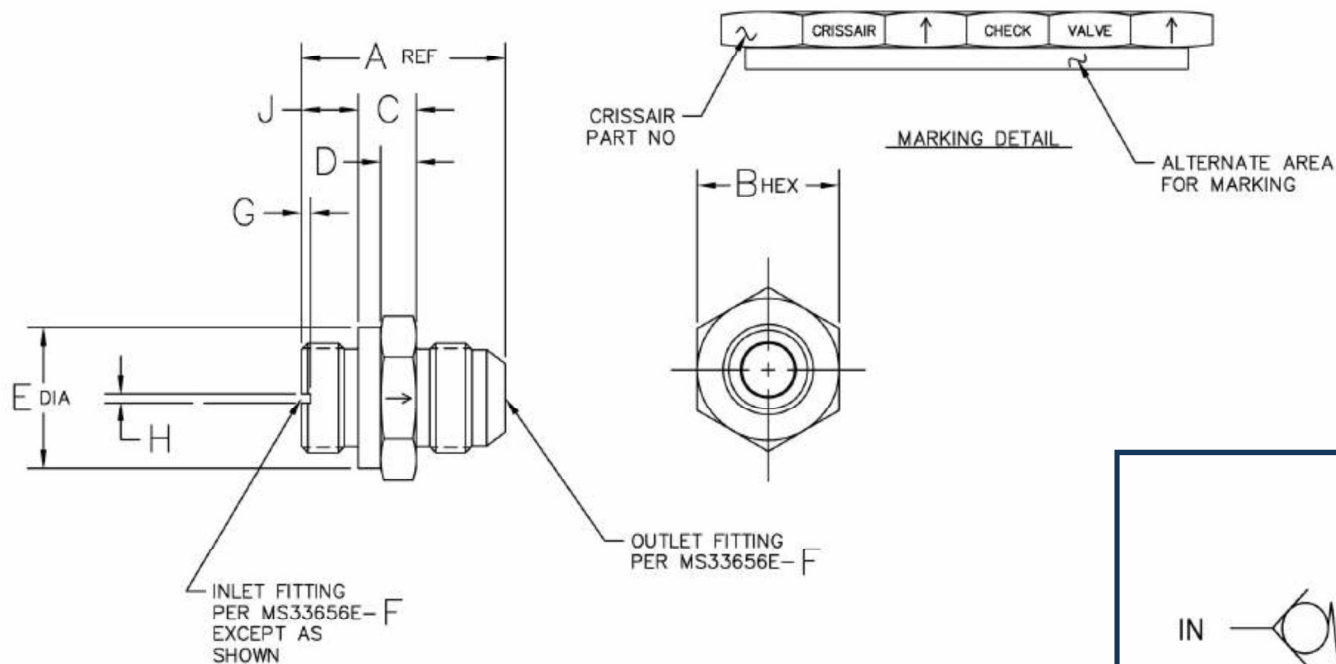
NONE AT 1000 TO 3000 PSID

1C6316	1	29.0	AS930B-16	MS33514E16	2.400	.375	1.062	1.615	1.625	.170	1.000
1C6312	3/4	16.0	AS930B-12	MS33514E12	1.900	.343	.562	1.365	1.375	.170	.750
1C6310	5/8	10.5	AS930B-10	MS33514E10	1.746	.312	.531	1.115	1.125	.150	.625
1C6308	1/2	6.0	AS930B-8	MS33514E8	1.632	.281	.500	.990	1.000	.130	.500
1C6306	3/8	3.5	AS930B-6	MS33514E6	1.478	.250	.469	.803	.813	.140	.375
1C6304	1/4	1.2	AS930B-4	MS33514E4	1.441	.219	.438	.678	.688	.150	.250
CRISSAIR PART NO	TUBE SIZE	FLOW (GPM)	FITTING END NO 1 (MODIFIED AS930)	FITTING END NO 2 (FLARELESS TUBE)	A (REF)	B ±.015	C ±.015	D ±.015	E ±.015	F ±.010	G ±.015

CATEGORY 1: CHECK VALVES, INLINE



PART NUMBER: 1C1700 CHECK VALVE, SERIES, FLARED/MOD



PERFORMANCE SPECIFICATIONS:

FLUIDS: ALL AIRCRAFT HYDRAULIC FLUIDS

MATERIAL: BODY 303 CRES

POPPET 440C CRES

TEMPERATURE RANGE: -65°F TO 275°F

OPERATING PRESSURE: 3000 PSIG

PROOF PRESSURE: 4500 PSIG

CRACKING PRESSURE: 2 TO 8 PSID

FLOW: SEE TABLE

INTERNAL LEAKAGE (CHECKED DIRECTION):

1 DPM MAX AT 5 PSID

NONE AT 1000 TO 3000 PSID

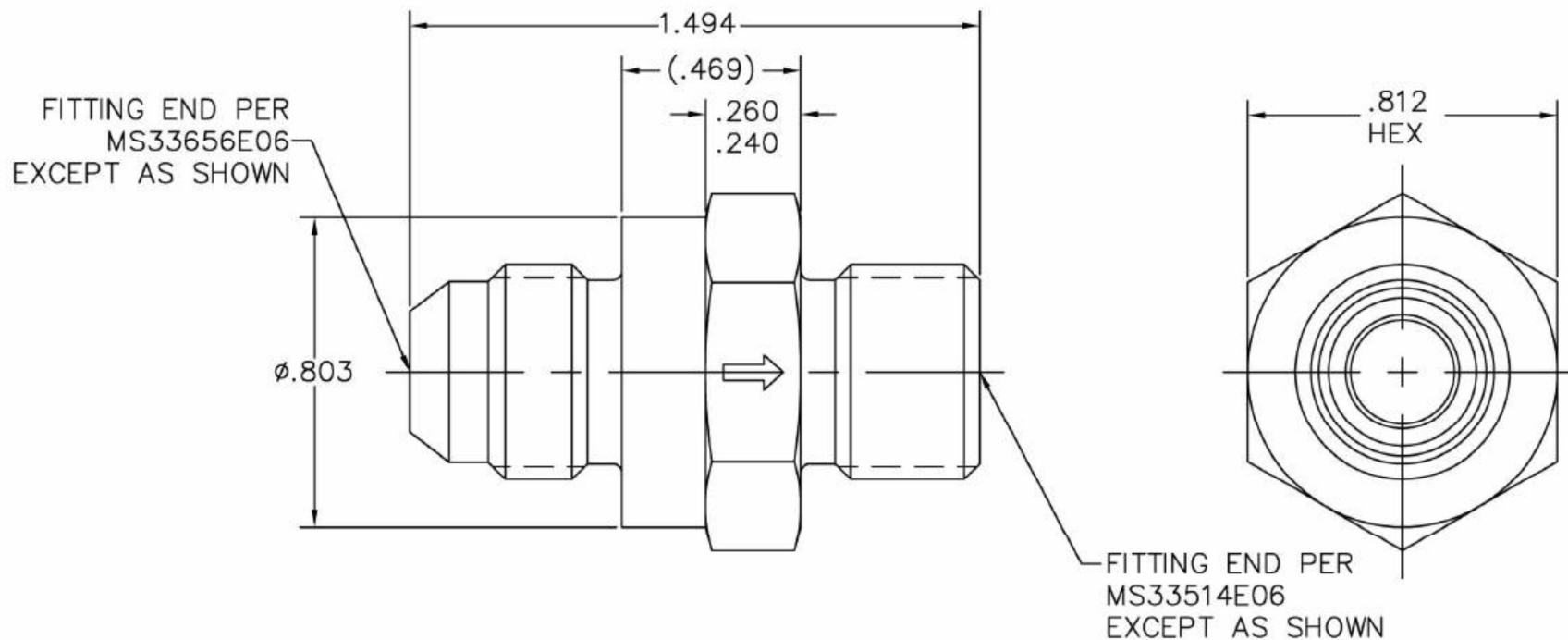
HYDRAULIC SCHEMATIC

1C1704	.077	4	.080	.060	.350	1.338	.688	.438	.219	.678	1.2	15
1C1706	.104	6	.080	.060	.370	1.395	.813	.469	.250	.803	3.5	15
1C1710	.250	10	.090	.090	.492	1.781	1.125	.531	.312	1.115	10.5	15
CRISSAIR PART NO	WEIGHT LBS MAX	F FITTING	G	H	J	A REF	B HEX	C	D	E DIA	RATED FLOW (GPM)	MAX ΔP PSID

CATEGORY 1: CHECK VALVES, INLINE



PART NUMBER: 1C6194 CHECK VALVE, FLARED/FLARELESS



PERFORMANCE SPECIFICATIONS:

FLUIDS: ANY AIRCRAFT HYDRAULIC FLUIDS

MATERIAL: BODY 17-4PH CRES

POPPET 440C CRES

TEMPERATURE RANGE: -65°F TO 275°F

OPERATING PRESSURE: 3000 PSIG

PROOF PRESSURE: 4500 PSIG

CRACKING PRESSURE: 2 TO 8 PSID

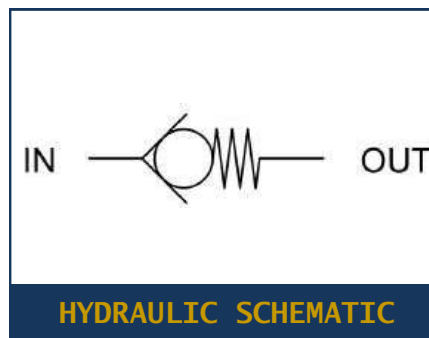
FLOW: 3.5 GPM AT 15 PSID MAX

INTERNAL LEAKAGE (CHECKED DIRECTION):

1 DPM MAX AT 5 PSID

NONE AT 1000 TO 3000 PSID

WEIGHT: .10 LBS MAX

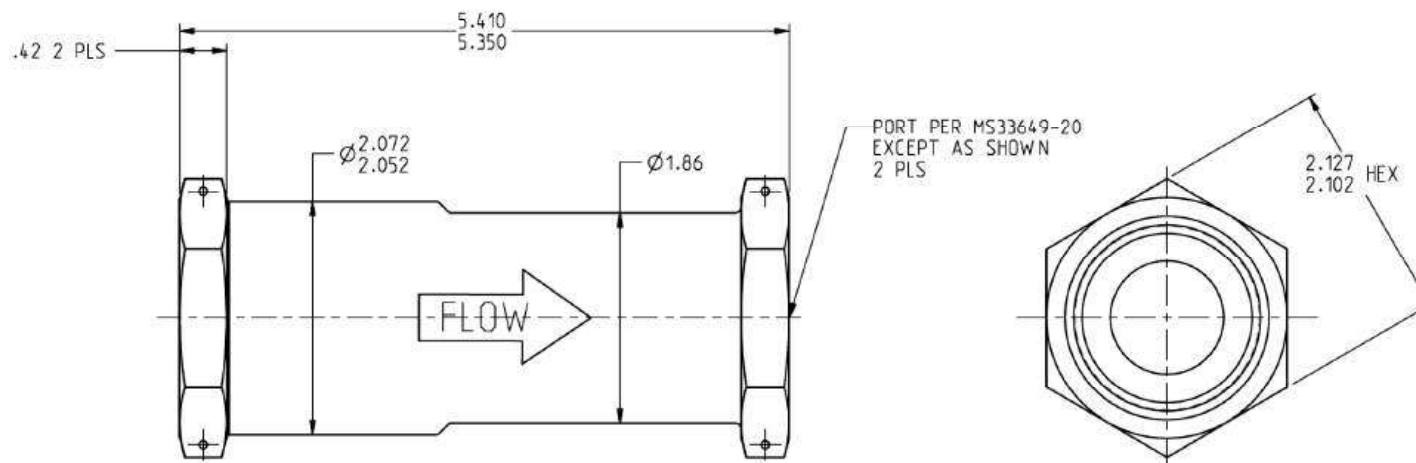


HYDRAULIC SCHEMATIC

CATEGORY 1: CHECK VALVES, INLINE



PART NUMBER: 3C4792-XCHECK VALVE



PERFORMANCE SPECIFICATIONS:

FLUIDS: ETHYLENE GLYCOL/WATER MIXTURES OR PHOSPHATE ESTER

MATERIAL: BODY 6061-T6 AL

POPPET 6061-T6 AL

ELASTOMER ETHYLENE PROPYLENE

TEMPERATURE RANGE: -65°F TO 160°F

OPERATING PRESSURE: 123 PSIG

PROOF PRESSURE: 185 PSIG

CRACKING PRESSURE: 0.9 ± 0.1 PSID*

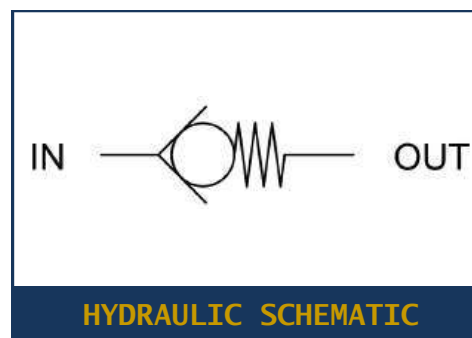
FLOW: 22 GPM AT 1.7 PSID MAX*

RESEAT: 0.6 PSID MINIMUM*

INTERNAL LEAKAGE (CHECKED DIRECTION):
1 CC/MIN MAX AT 123 PSID

WEIGHT: 0.79 LBS MAX

*CRACK, FLOW, AND RESEAT CAN MOVE UP OR DOWN
BY USING SHIMS OR REPLACING THE SPRING



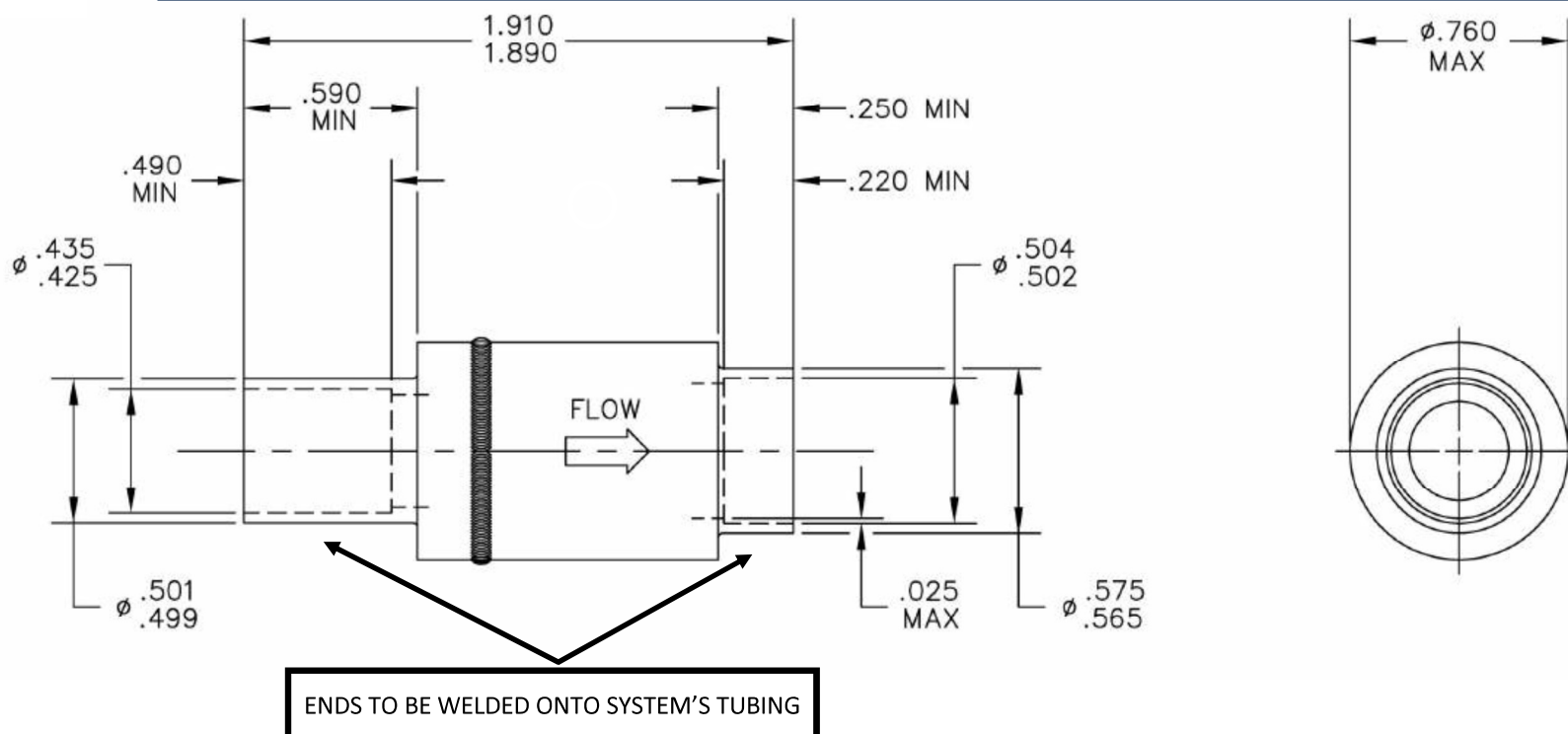
HYDRAULIC SCHEMATIC



CATEGORY 1: CHECK VALVES, ZERO LEAK, INLINE



PART NUMBER: 1C6192 CHECK VALVE, WELDED ENDS



PERFORMANCE SPECIFICATIONS:

FLUIDS: AIR WITH MIL-L-7808 OR MIL-L-23699 MIST
MATERIAL: BODY 347 CRES
POPPET 440C CRES
TEMPERATURE RANGE: -65°F TO 400°F
OPERATING PRESSURE: 65 PSIG
PROOF PRESSURE: 100 PSIG
CRACKING PRESSURE: 0.5 PSID
FLOW: 0.5 LB/MIN AT 1.0 PSID MAX
INTERNAL LEAKAGE (CHECKED DIRECTION):
0.001 LB/MIN MAX AT 0.5 TO 65 PSID
WEIGHT: 0.13 LBS MAX



HYDRAULIC SCHEMATIC

CATEGORY 1: CHECK VALVES, ZERO LEAK, INLINE



CRISSAIR HAS HUNDREDS OF OTHER CHECK VALVES NOT LISTED IN THE CATALOG WITH DIFFERENT MATERIALS, FITTINGS, AND SIZE CONFIGURATIONS.

CONTACT CRISSAIR FOR ADDITIONAL INFORMATION/DRAWINGS AT

(661) 367-3300 OR SALES@CRISSAIR.COM.

YOU CAN ALSO VISIT WWW.CRISSAIR.COM.