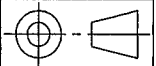
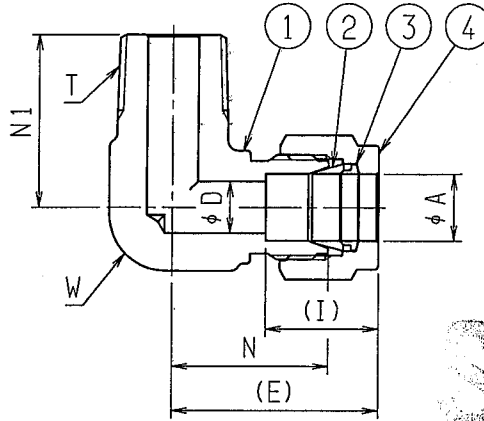


RECIPIENT

THE THIRD ANGLE



REMARK



SAMPLE

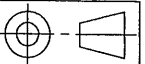
TUBE O.D. A		T	D		W		N		ITEM No.
in	mm		in	mm	in	mm	in	mm	
1/16	1.58	1/8NPT	0.05	1.27	7/16	11.1	0.6	15.24	VUWL-1.6AN
1/8	3.17	1/8NPT	0.09	2.28	7/16	11.1	0.67	17.02	VUWL-3.2AN
1/8	3.17	1/4NPT	0.09	2.28	1/2	12.7	0.71	18.03	VUWL-3.2BN
3/16	4.76	1/8NPT	0.12	3.04	1/2	12.7	0.74	18.8	VUWL-4.8AN
3/16	4.76	1/4NPT	0.12	3.04	1/2	12.7	0.74	18.8	VUWL-4.8BN
1/4	6.35	1/8NPT	0.19	4.82	1/2	12.7	0.77	19.56	VUWL-6.35AN
1/4	6.35	1/4NPT	0.19	4.82	1/2	12.7	0.77	19.56	VUWL-6.35BN
1/4	6.35	3/8NPT	0.19	4.82	11/16	17.5	0.88	22.35	VUWL-6.35CN
1/4	6.35	1/2NPT	0.19	4.82	13/16	20.6	0.96	24.38	VUWL-6.35DN



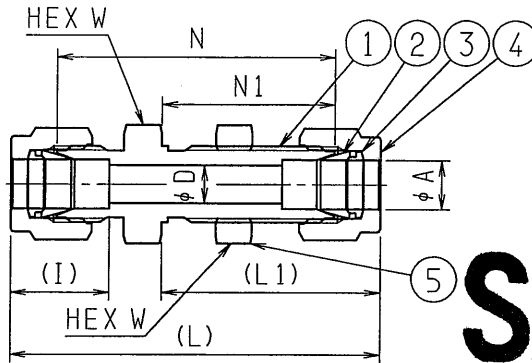
E		N1		I		ITEM No.
in	mm	in	mm	in	mm	
0.75	19.05	0.7	17.78	0.34	8.6	VUWL-1.6AN
0.93	23.62	0.7	17.78	0.5	12.7	VUWL-3.2AN
0.97	24.64	0.92	23.37	0.5	12.7	VUWL-3.2BN
1	25.4	0.74	18.8	0.54	13.7	VUWL-4.8AN
1	25.4	0.92	23.37	0.54	13.7	VUWL-4.8BN
1.06	26.92	0.74	18.8	0.6	15.2	VUWL-6.35AN
1.06	26.92	0.92	23.37	0.6	15.2	VUWL-6.35BN
1.17	29.71	1.03	26.16	0.6	15.2	VUWL-6.35CN
1.25	31.75	1.3	33.02	0.6	15.2	VUWL-6.35DN



REV. NO.	DATE	REVISED DESCRIPTION	REVISED	APPD.	14				
					13				
					12				
					11				
REVISION					10				
DATE	7.22. '08	TEST PRESS.			9				
SCALE	FREE	ITEM FLUID			8				
APPD.	<i>[Signature]</i>	SHELL			7				
CHKD.	<i>[Signature]</i>	SEAT			6				
DESIGN	<i>J. Nohokanor</i>	BACKSEAT			5				
		SEAL			4	NUT	ASTM316	1	Ag PLATING
MODEL NO.					3	BACK RING	ASTM316	1	
TRADEMARK OR MODEL NAME					2	FRONT RING	ASTM316	1	
					1	BODY	ASTMF316	1	
NAME	STAINLESS STEEL V-Lok™ MALE ELBOW				PART. NO.	NAME OF PARTS	MATERIAL	Q' TY	REMARK
	Fujikin Incorporated 株式会社 フジキン				MATERIAL LIST				
CAREER					DRG. NO.	U335375E		REV. MARK	
							CAB. NO.		



REMARK



SAMPLE

TUBE O.D. A		D		W		N		N1		ITEM No.
in	mm	in	mm	in	mm	in	mm	in	mm	
1/16	1.58	0.05	1.27	5/16	7.9	0.94	23.88	0.53	13.46	VUWP-1.6
1/8	3.17	0.09	2.28	1/2	12.7	1.5	38.1	0.97	24.63	VUWP-3.2
3/16	4.76	0.12	3.04	9/16	14.3	1.59	40.38	1	25.4	VUWP-4.8
1/4	6.35	0.19	4.82	5/8	15.9	1.69	42.92	1.03	26.16	VUWP-6.35
5/16	7.93	0.25	6.35	11/16	17.5	1.81	45.97	1.12	28.44	VUWP-7.93
3/8	9.52	0.28	7.11	3/4	19.1	1.87	47.5	1.16	29.46	VUWP-9.52
1/2	12.7	0.41	10.41	15/16	23.8	2	50.2	1.25	31.75	VUWP-12.7
5/8	15.87	0.5	12.7	1-1/16	27	2.06	52.32	1.28	32.51	VUWP-15.88
3/4	19.05	0.62	15.9	1-3/16	30.2	2.31	58.67	1.47	37.33	VUWP-19.05
1	25.4	0.88	22.35	1-5/8	41.3	2.81	71.37	1.78	45.21	VUWP-25.4



L		L1		I		PANEL HOLE DRILL SIZE		MAX. PANEL THICKNESS		ITEM No.
in	mm	in	mm	in	mm	in	mm	in	mm	
1.24	31.5	0.68	17.3	0.34	8.6	13/64	5.16	0.12	3.05	VUWP-1.6
2.02	51.3	1.23	31.24	0.5	12.7	21/64	8.33	0.5	12.7	VUWP-3.2
2.11	53.59	1.26	32	0.54	13.7	25/64	9.92	0.5	12.7	VUWP-4.8
2.27	57.65	1.32	33.52	0.6	15.2	29/64	11.5	0.4	10.16	VUWP-6.35
2.39	60.7	1.41	35.81	0.64	16.2	33/64	13.09	0.44	11.17	VUWP-7.93
2.45	62.2	1.45	36.83	0.66	16.8	37/64	14.68	0.44	11.17	VUWP-9.52
2.8	71.12	1.65	41.91	0.9	22.9	49/64	19.44	0.5	12.7	VUWP-12.7
2.86	72.64	1.68	42.67	0.96	24.4	57/64	22.62	0.5	12.7	VUWP-15.88
3.11	78.99	1.87	47.49	0.96	24.4	1-1/64	25.79	0.66	16.76	VUWP-19.05
3.77	95.76	2.26	57.4	1.23	31.2	1-21/64	33.73	0.75	19.05	VUWP-25.4

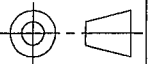


REV. NO.	DATE	REVISED DESCRIPTION	REVISED	APPD.	14				
					13				
					12				
					11				
REVISION					10				
DATE	7.22. '08	TEST PRESS.			9				
SCALE	FREE	ITEM	FLUID		8				
APPD.	<i>J. Nakahama</i>	SHELL			7				
CHKD.	<i>J. Nakahama</i>	SEAT			6				
DESIGN	<i>J. Nakahama</i>	BACKSEAT			5	LOCK NUT	ASTM316	1	
		SEAL			4	NUT	ASTM316	2	Ag PLATING
					3	BACK RING	ASTM316	2	
MODEL NO.					2	FRONT RING	ASTM316	2	
TRADEMARK OR MODEL NAME					1	BODY	ASTM316	1	
NAME	STAINLESS STEEL V-Lok™ BULKHEAD UNION				PART. NO.	NAME OF PARTS	MATERIAL	Q' TY	REMARK
	Fujikin Incorporated 株式会社 フジキン				MATERIAL LIST				
CAREER					DRG. NO.	U335379E	REV. MARK	0	
					CAB. NO.				

RECIPIENT _____

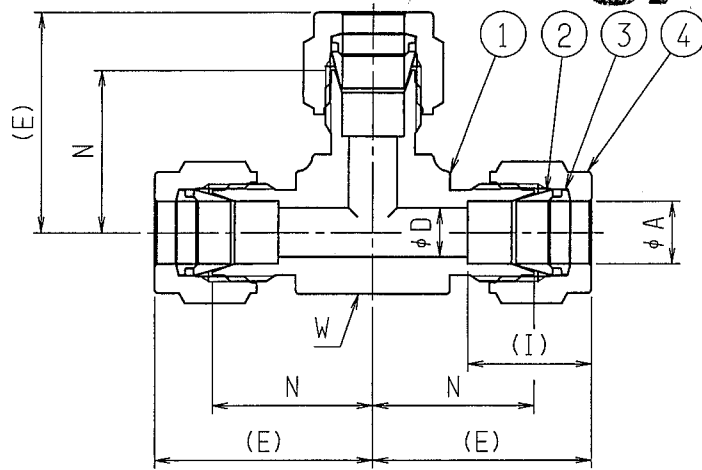
UNIT (mm)

THE THIRD ANGLE



REMARK _____

SAMPLE



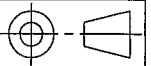
TUBE O.D. A	D	W		N	E	I	ITEM No.
		in	mm				
2	1.7	3/8	9.5	15.7	22.3	12.9	VUWT-2
3	2.4	3/8	9.5	15.7	22.3	12.9	VUWT-3
4	2.4	1/2	12.7	18.8	25.4	13.7	VUWT-4
6	4.8	1/2	12.7	19.6	27	15.3	VUWT-6
8	6.4	5/8	15.9	22.4	29.9	16.2	VUWT-8
10	7.9	11/16	17.5	23.9	31.5	17.2	VUWT-10
12	9.5	13/16	20.6	25.9	36	22.8	VUWT-12
14	11	15/16	23.8	28.7	38.8	24.4	VUWT-14
15	12	15/16	23.8	28.7	38.8	24.4	VUWT-15
16	12.7	15/16	23.8	28.7	38.8	24.4	VUWT-16
18	15.1	1-1/16	27	29.7	39.8	24.4	VUWT-18
20	15.9	1-3/8	34.9	34.5	44.6	26	VUWT-20
22	18.3	1-3/8	34.9	34.5	44.6	26	VUWT-22
25	21.8	1-3/8	34.9	36.8	49.1	31.3	VUWT-25



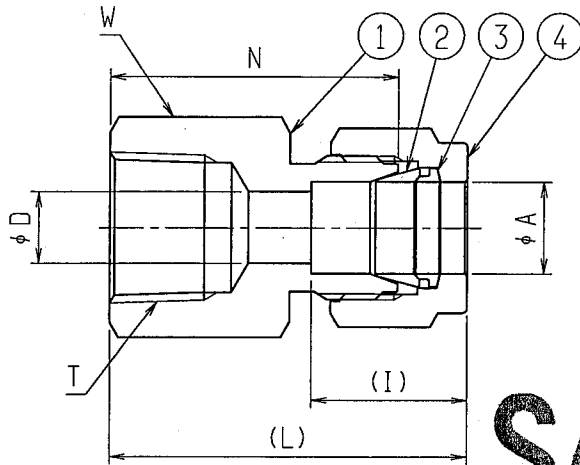
REV. NO.	DATE	REVISED DESCRIPTION	REVISED	APPD.	14				
					13				
					12				
REVISION					11				
DATE	08.03. '11	TEST PRESS.			10				
SCALE	FREE	FLUID			9				
APPD.	<i>J. Akhbar</i>	ITEM			8				
CHKD.	<i>J. Akhbar</i>	SHELL			7				
DESIGN	<i>M. Nagao</i>	SEAT			6				
		BACKSEAT			5				
		SEAL			4	NUT	ASTM316	3	Ag PLATING
MODEL NO.					3	BACK RING	ASTM316	3	
TRADEMARK OR MODEL NAME					2	FRONT RING	ASTM316	3	
					1	BODY	ASTMF316	1	
NAME	STAINLESS STEEL V-Lok™ UNION TEE				PART. NO.	NAME OF PARTS	MATERIAL	Q' TY	REMARK
	Fujikin Incorporated 株式会社 フジキン				MATERIAL LIST				
CAREER					DRG. NO.	U335383E	REV. MARK	0	
					CAB. NO.				

RECIPIENT _____

THE THIRD ANGLE



REMARK



SAMPLE

TUBE O.D.		T	D		W		N		L		I		ITEM No.
in	mm		in	mm	in	mm	in	mm	in	mm	in	mm	
1/8	3.17	1/8NPT	0.09	2.28	9/16	14.3	0.87	22.1	1.13	28.7	0.5	12.7	VUWG-3.2AN
1/8	3.17	1/4NPT	0.09	2.28	3/4	19.1	1.06	26.92	1.32	33.52	0.5	12.7	VUWG-3.2BN
3/16	4.76	1/8NPT	0.12	3.04	9/16	14.3	0.91	23.11	1.17	29.71	0.54	13.7	VUWG-4.8AN
1/4	6.35	1/8NPT	0.19	4.82	9/16	14.3	0.94	23.87	1.23	31.24	0.6	15.2	VUWG-6.35AN
1/4	6.35	1/4NPT	0.19	4.82	3/4	19.1	1.12	28.44	1.41	35.81	0.6	15.2	VUWG-6.35BN
1/4	6.35	3/8NPT	0.19	4.82	7/8	22.2	1.19	30.22	1.48	37.59	0.6	15.2	VUWG-6.35CN
1/4	6.35	1/2NPT	0.19	4.82	1-1/16	27	1.38	35	1.67	42.42	0.6	15.2	VUWG-6.35DN
5/16	7.93	1/8NPT	0.25	6.35	9/16	14.3	0.97	24.63	1.26	32	0.64	16.3	VUWG-7.93AN
5/16	7.93	1/4NPT	0.25	6.35	3/4	19.1	1.16	29.46	1.45	36.83	0.64	16.3	VUWG-7.93BN
3/8	9.52	1/8NPT	0.28	7.11	5/8	15.9	1	25.4	1.29	32.76	0.66	16.8	VUWG-9.52AN
3/8	9.52	1/4NPT	0.28	7.11	3/4	19.1	1.19	30.22	1.48	37.59	0.66	16.8	VUWG-9.52BN
3/8	9.52	3/8NPT	0.28	7.11	7/8	22.2	1.25	31.75	1.54	39.11	0.66	16.8	VUWG-9.52CN
3/8	9.52	1/2NPT	0.28	7.11	1-1/16	27	1.44	36.57	1.73	43.94	0.66	16.8	VUWG-9.52DN
1/2	12.7	1/4NPT	0.41	10.41	13/16	20.6	1.19	30.2	1.59	40.38	0.9	22.9	VUWG-12.7BN
1/2	12.7	3/8NPT	0.41	10.41	7/8	22.2	1.25	31.75	1.65	41.91	0.9	22.9	VUWG-12.7CN
1/2	12.7	1/2NPT	0.41	10.41	1-1/16	27	1.44	36.57	1.84	46.73	0.9	22.9	VUWG-12.7DN
1/2	12.7	3/4NPT	0.41	10.41	1-5/16	33.3	1.5	38.1	1.9	48.26	0.9	22.9	VUWG-12.7EN



REV. NO.	DATE	REVISED DESCRIPTION	REVISED	APPD.	14			
					13			
					12			
REVISION					11			
DATE	7.10. '08	TEST PRESS.			10			
SCALE	FREE	ITEM	FLUID		9			
APPD.	J. Nito	SHELL			8			
CHKD.	J. Nito	SEAT			7			
DESIGN	J. Nakahama	BACKSEAT			6			
		SEAL			5			
MODEL NO.					4	NUT	ASTM316	1 Ag PLATING
TRADEMARK OR MODEL NAME					3	BACK RING	ASTM316	1
					2	FRONT RING	ASTM316	1
					1	BODY	ASTM316	1
NAME	STAINLESS STEEL V-Lok™ FEMALE CONNECTOR			PART. NO.	NAME OF PARTS	MATERIAL	Q' TY	REMARK
	Fujikin Incorporated 株式会社 フジキン			MATERIAL LIST				
CAREER				DRG. NO.	U335351E	REV. MARK	0	
				CAB. NO.				