

VOLZ HYDROGEN



VOLZ Hydrogen stands for the highest standards of quality and safety. With innovative solutions and extensive testing, we ensure that our products meet the latest requirements of hydrogen technologies.



- ✓ Low Friction- /Easy nut
- ✓ Kolsterized® cutting ring (by Bodycote)
- ✓ Operating pressure: 700 bar
- ✓ Material: 1.4571 (AISI 316Ti)
- ✓ Temperature range: -40 °C to 85 °C
- ✓ Tube sizes: 06, 10 and 16 mm
- ✓ Tested according to ISO DIS 19887:2023 Clause 5.3 with gaseous hydrogen

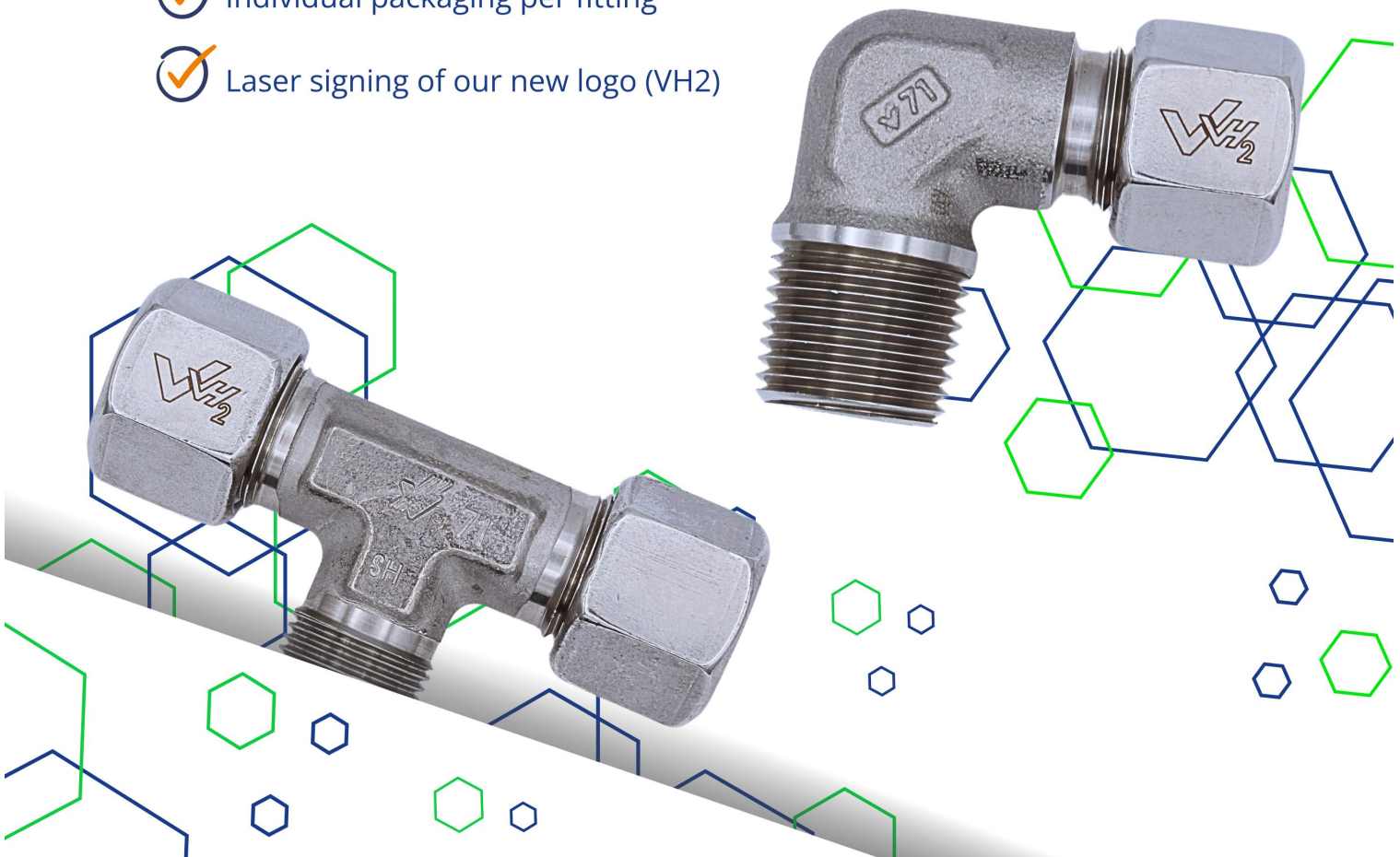
www.volz.de

VOLZ HYDROGEN



VOLZ Hydrogen includes all cutting ring connections and male studs of our S-Series in sizes 06, 10 and 16.

- ✓ Cutting ring: consistent corrosion resistance after hardening
- ✓ Easy / Low Friction Nut: minimal friction values without cold welding
- ✓ 100%-Controlling: each fitting is strictly controlled to ensure the highest quality
- ✓ Individual packaging per fitting
- ✓ Laser signing of our new logo (VH₂)

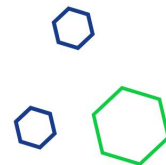




Hydrogen Fittings by Volz

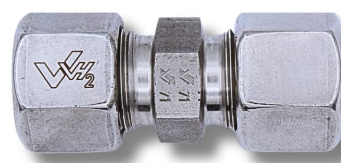
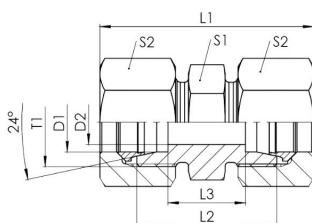
Tested according to ISO DIS 19887:2023 Clause 5.3

Nominal working pressure	70 MPa
Test medium	Gaseous hydrogen
Operating temperature range	-40 °C ... 85 °C
Max. allowable external leakage rate	<= 10 Ncm³/h H ₂
Safety factor	1,25



Straight Connector

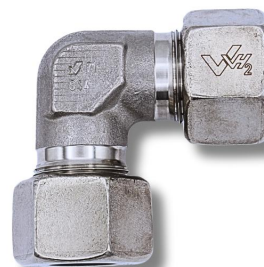
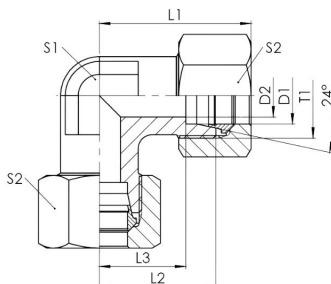
Stainless steel (1.4571/AISI 316Ti)



Series	D1	T1	D2	L1	L2	L3	S1	S2	PN	Total weight	Name	Article No.
	mm		mm	mm	mm	mm	mm	mm	bar	g		
S	6	M14x1,5	4	46	30	16	14	17	700	72	GV 06S VH2	254472
	10	M18x1,5	7	50	32	17	19	22	700	122	GV 10S VH2	254480
	16	M24x1,5	12	58	38	21	27	30	700	250	GV 16S VH2	254481

90° Elbow Connector

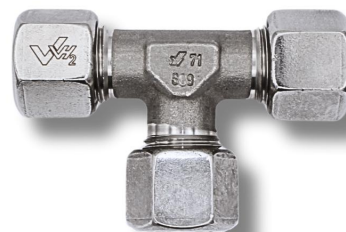
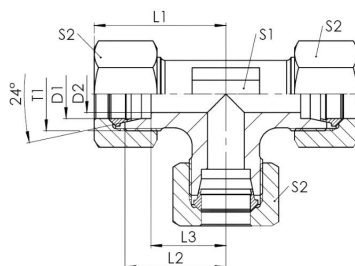
Stainless steel (1.4571/AISI 316Ti)



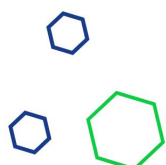
Series	D1	T1	D2	L1	L2	L3	S1	S2	PN	Total weight	Name	Article No.
	mm		mm	mm	mm	mm	mm	mm	bar	g		
S	6	M14x1,5	4	31	23	16	12	17	700	79	WV 06S VH2	254482
	10	M18x1,5	7	34	25	17,5	17	22	700	134	WV 10S VH2	254483
	16	M24x1,5	12	43	33	24,5	24	30	700	296	WV 16S VH2	254484

Equal Tee Connector

Stainless steel (1.4571/AISI 316Ti)



Series	D1	T1	D2	L1	L2	L3	S1	S2	PN	Total weight	Name	Article No.
	mm		mm	mm	mm	mm	mm	mm	bar	g		
S	6	M14x1,5	4	31	23	16	12	17	700	117	TV 06S VH2	254485
	10	M18x1,5	7	34	25	17,5	17	22	700	195	TV 10S VH2	254486
	16	M24x1,5	12	43	33	24,5	24	30	700	422	TV 16S VH2	254487

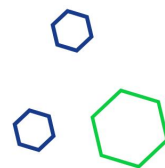




Hydrogen Fittings by Volz

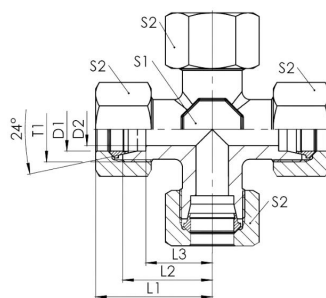
Tested according to ISO DIS 19887:2023 Clause 5.3

Nominal working pressure	70 MPa
Test medium	Gaseous hydrogen
Operating temperature range	-40 °C ... 85 °C
Max. allowable external leakage rate	<= 10 Ncm³/h H ₂
Safety factor	1,25



Cross Connector

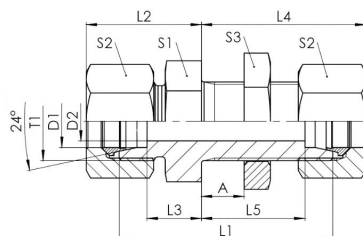
Stainless steel (1.4571/AISI 316Ti)



Series	D1	T1	D2	L1	L2	L3	S1	S2	PN	Total weight	Name	Article No.
	mm		mm	mm	mm	mm	mm	mm	bar	g		
S	6	M14x1,5	4	31	23	16	12	17	700	152	KV 06S VH2	254488
	10	M18x1,5	7	34	25	17,5	17	22	700	254	KV 10S VH2	254489
	16	M24x1,5	12	43	33	24,5	24	30	700	543	KV 16S VH2	254490

Straight Bulkhead Connector

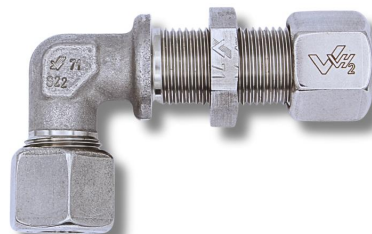
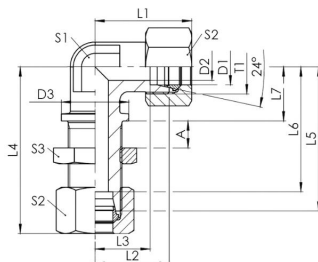
Stainless steel (1.4571/AISI 316Ti)



Series	D1	T1	D2	L1	L2	L3	L4	L5	S1	S2	S3	PN	Total weight	Name	Article No.
	mm		mm	mm	mm	mm	mm	mm	mm	mm	mm	bar	g		
S	6	M14x1,5	4	55	27	12	44	29	19	17	19	700	119	GSV 06S VH2	254491
	10	M18x1,5	7	59	31	14,5	46	29,5	24	22	24	700	199	GSV 10S VH2	254492
	16	M24x1,5	12	65	35	16,5	50	31,5	32	30	32	700	376	GSV 16S VH2	254493

90° Elbow Bulkhead Connector

Stainless steel (1.4571/AISI 316Ti)



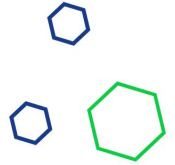
Series	D1	T1	D2	D3	L1	L2	L3	L4	L5	L6	L7	S1	S2	S3	PN	Total weight	Name	Article No.
	mm		mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	bar	g		
S	6	M14x1,5	4	19	31	23	16	61	53	46	17	12	17	19	700	129	WSV 06S VH2	254494
	10	M18x1,5	7	24	34	25	17,5	66	57	49,5	20	17	22	24	700	211	WSV 10S VH2	254495
	16	M24x1,5	12	30	43	33	24,5	74	64	55,5	24	24	30	32	700	415	WSV 16S VH2	254496



Hydrogen Fittings by Volz

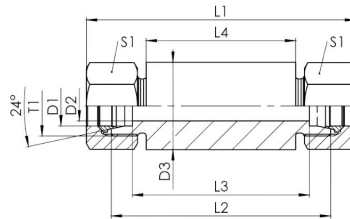
Tested according to ISO DIS 19887:2023 Clause 5.3

Nominal working pressure	70 MPa
Test medium	Gaseous hydrogen
Operating temperature range	-40 °C ... 85 °C
Max. allowable external leakage rate	<= 10 Ncm³/h H ₂
Safety factor	1,25



Straight Weld Bulkhead Connector

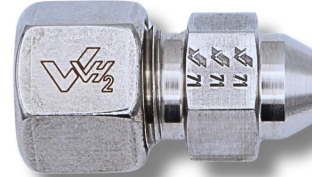
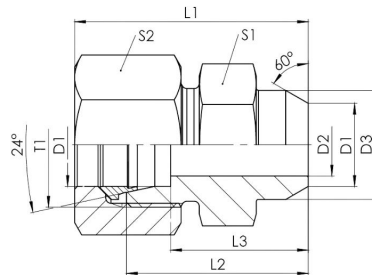
Stainless steel (1.4571/AISI 316Ti)



Series	D1	T1	D2	D3	L1	L2	L3	L4	S1	PN	Total weight	Name	Article No.
	mm		mm	mm	mm	mm	mm	mm	mm	bar	g		
S	6	M14x1,5	4	20	90	74	60	50	17	700	185	ESV 06S VH2	254497
	10	M18x1,5	7	25	92	74	59	50	22	700	285	ESV 10S VH2	254498
	16	M24x1,5	12	35	108	88	71	60	30	700	616	ESV 16S VH2	254499

Straight Weld Connector

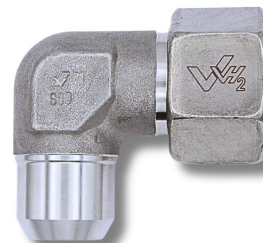
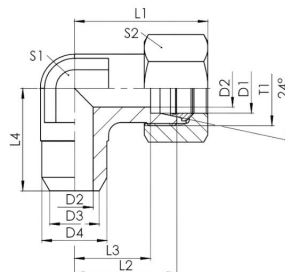
Stainless steel (1.4571/AISI 316Ti)



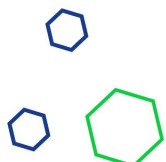
Series	D1	T1	D2	D3	L1	L2	L3	S1	S2	PN	Total weight	Name	Article No.
	mm		mm	mm	mm	mm	mm	mm	mm	bar	g		
S	6	M14x1,5	4	11	34	26	19	14	17	700	44	GASV 06S VH2	254503
	10	M18x1,5	7	15	39	30	22,5	19	22	700	81	GASV 10S VH2	254504
	16	M24x1,5	12	21	45	35	26,5	27	30	700	166	GASV 16S VH2	254505

90° Elbow Weld Connector

Stainless steel (1.4571/AISI 316Ti)



Series	D1	T1	D2	D3	D4	L1	L2	L3	L4	S1	S2	PN	Total weight	Name	Article No.
	mm		mm	mm	mm	mm	mm	mm	mm	mm	mm	bar	g		
S	6	M14x1,5	4	6	11	31	23	16	23	14	17	700	55	WASV 06S VH2	254506
	10	M18x1,5	7	10	15	34	25	17,5	25	17	22	700	95	WASV 10S VH2	254507
	16	M24x1,5	12	16	21	43	33	24,5	33	24	30	700	216	WASV 16S VH2	254508

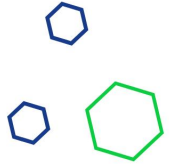




Hydrogen Fittings by Volz

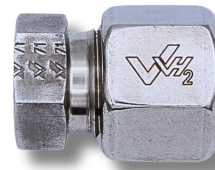
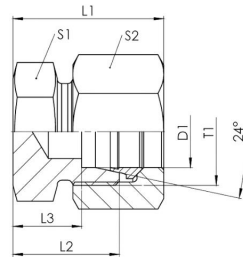
Tested according to ISO DIS 19887:2023 Clause 5.3

Nominal working pressure	70 MPa
Test medium	Gaseous hydrogen
Operating temperature range	-40 °C ... 85 °C
Max. allowable external leakage rate	<= 10 Ncm³/h H ₂
Safety factor	1,25



Blanking Plug for tube ends

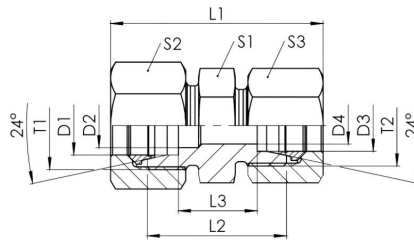
Stainless steel (1.4571/AISI 316Ti)



Series	D1	T1	L1	L2	L3	S1	S2	PN	Total weight	Name	Article No.
	mm		mm	mm	mm	mm	mm	bar	g		
S	6	M14x1,5	26	18	11	14	17	700	40	EVSU 06S VH2	254500
	10	M18x1,5	29	20	12,5	19	22	700	71	EVSU 10S VH2	254501
	16	M24x1,5	34	24	15,5	27	30	700	151	EVSU 16S VH2	254502

Straight Reducer

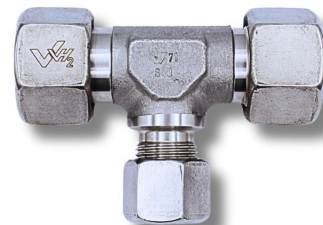
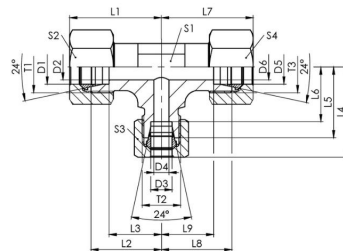
Stainless steel (1.4571/AISI 316Ti)



Series	D1	T1	T2	D2	D3	D4	L1	L2	L3	S1	S2	S3	PN	Total weight	Name	Article No.
	mm			mm	mm	mm	mm	mm	mm	mm	mm	mm	bar	g		
S	10	M18x1,5	M14x1,5	7	6	4	49	32	17,5	19	22	17	700	104	GRV 10 06S VH2	254512
	16	M24x1,5	M14x1,5	12	6	4	53,5	35,5	20	27	30	17	700	183	GRV 16 06S VH2	254513
	16	M24x1,5	M18x1,5	12	10	7	55	36	20	27	30	22	700	203	GRV 16 10S VH2	254514

T-Reducer

Stainless steel (1.4571/AISI 316Ti)

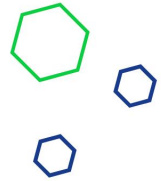


Series	D1	T1/T3	T2	D2	D3	D4	D5	D6	L1	L2	L3	L4	L5	L6	L7	L8	L9	S1	S2/S4	S3	PN	Total weight	Name	Article No.
	mm			mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	bar	g		
S	10	M18x1,5	M14x1,5	7	6	4	10	7	34	25	17,5	33	25	18	34	25	17,5	17	22	17	700	177	TRV 10 06 10S VH2	254512
	16	M24x1,5	M14x1,5	12	6	4	16	12	43	33	24,5	41	33	26	43	33	24,5	24	30	17	700	365	TRV 16 06 16S VH2	254513
	16	M24x1,5	M18x1,5	12	10	7	16	12	43	33	24,5	42	33	25,5	43	33	24,5	24	30	22	700	382	TRV 16 10 16S VH2	254514



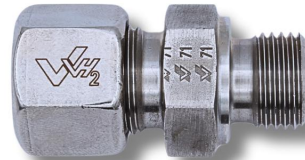
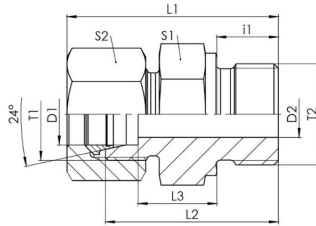
Hydrogen Fittings by Volz

Nominal working pressure	70 MPa
Test medium	Compressed air
Safety factor	1,5
Max. test pressure	105 MPa



Male Stud Connector

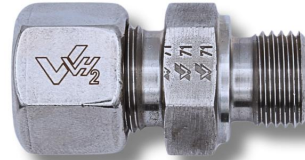
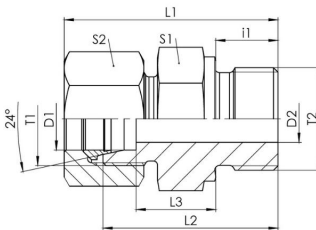
Stainless steel (1.4571/AISI 316Ti)



Series	D1	T1	T2	D2	L1	L2	L3	i1	S1	S2	PN	Total weight	Name	Article No.
	mm			mm	mm	mm	mm	mm	mm	mm	bar	g		
S	6	M14x1,5	G1/4	4	40	32	13	12	19	17	700	61	GEV 06S R1/4 VH2	254546
	10	M18x1,5	G3/8	7	43,5	34,5	15	12	22	22	700	99	GEV 10S R3/8 VH2	254547
	16	M24x1,5	G1/2	12	51	41	18,5	14	27	30	700	178	GEV 16S R1/2 VH2	254548

Male Stud Connector

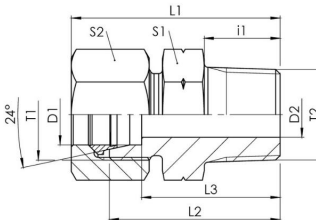
Stainless steel (1.4571/AISI 316Ti)



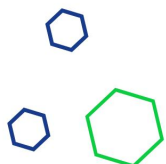
Series	D1	T1	T2	D2	L1	L2	L3	i1	S1	S2	PN	Total weight	Name	Article No.
	mm			mm	mm	mm	mm	mm	mm	mm	bar	g		
S	6	M14x1,5	M12x1,5	4	39,5	31,5	12,5	12	17	17	700	55	GEV 06S M12x1,5 VH2	254543
	10	M18x1,5	M16x1,5	7	43,5	34,5	15	12	22	22	700	97	GEV 10S M16x1,5 VH2	254544
	16	M24x1,5	M22x1,5	12	51	41	18,5	14	27	30	700	184	GEV 16S M22x1,5 VH2	254545

Male Stud Connector

Stainless steel (1.4571/AISI 316Ti)



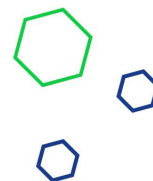
Series	D1	T1	T2	D2	L1	L2	L3	i1	S1	S2	PN	Total weight	Name	Article No.
	mm			mm	mm	mm	mm	mm	mm	mm	bar	g		
S	6	M14x1,5	1/4 NPT	4	43	35	28	15,5	17	17	700	62	GEV 06S 1/4 NPT VH2	254538
	10	M18x1,5	3/8 NPT	7	44	35	27,5	15,5	19	22	700	91	GEV 10S 3/8 NPT VH2	254539
	16	M24x1,5	1/2 NPT	12	54	44	35,5	20	27	30	700	183	GEV 16S 1/2 NPT VH2	254540





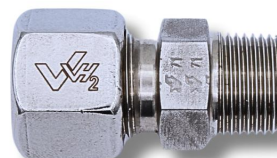
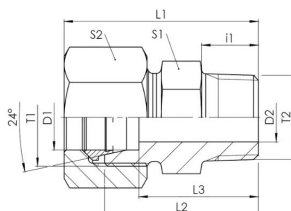
Hydrogen Fittings by Volz

Nominal working pressure	70 MPa
Test medium	Compressed air
Safety factor	1,5
Max. test pressure	105 MPa



Male Stud Connector

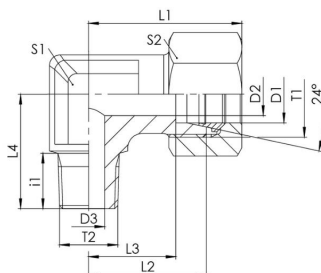
Stainless steel (1.4571/AISI 316Ti)



Series	D1	T1	T2	D2	L1	L2	L3	i1	S1	S2	PN	Total weight	Name	Article No.
	mm			mm	mm	mm	mm	mm	mm	mm	bar	g		
S	6	M14x1,5	R1/4 keg.	4	37	29	22	12	17	17	700	54	GEV 06S R1/4 keg. VH2	254535
	10	M18x1,5	R3/8 keg.	7	41	32	24,5	12	19	22	700	87	GEV 10S R3/8 keg. VH2	254536
	16	M24x1,5	R1/2 keg.	12	48	38	29,5	14	24	30	700	161	GEV 16S R1/2 keg. VH2	254537

Male Elbow Connector

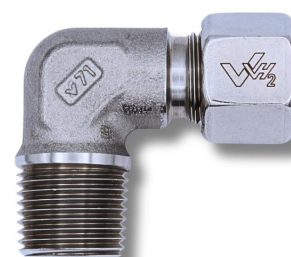
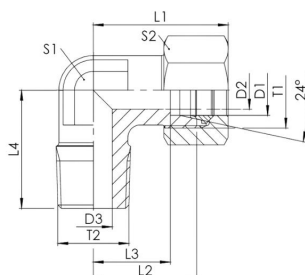
Stainless steel (1.4571/AISI 316Ti)



Series	D1	T1	T2	D2	D3	L1	L2	L3	L4	i1	S1	S2	PN	Total weight	Name	Article No.
	mm			mm	mm	mm	mm	mm	mm	mm	mm	mm	bar	g		
S	6	M14x1,5	1/4 NPT	4	4	32	24	17	26	15	12	17	700	62	WEV 06S 1/4 NPT VH2	254529
	10	M18x1,5	3/8 NPT	7	7	34	25	17,5	28	15,5	17	22	700	106	WEV 10S 3/8 NPT VH2	254530
	16	M24x1,5	1/2 NPT	12	12	43	33	24,5	33,5	20	24	30	700	217	WEV 16S 1/2 NPT VH2	254531

Male Elbow Connector

Stainless steel (1.4571/AISI 316Ti)

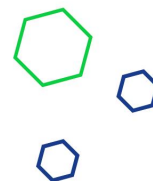


Series	D1	T1	T2	D2	D3	L1	L2	L3	L4	S1	S2	PN	Total weight	Name	Article No.
	mm			mm	mm	mm	mm	mm	mm	mm	mm	bar	g		
S	6	M14x1,5	R1/4 keg.	4	4	31	23	16	26	12	17	700	63	WEV 06S R1/4 keg. VH2	254532
	10	M18x1,5	R3/8 keg.	7	7	34	25	17,5	28	17	22	700	106	WEV 10S R3/8 keg. VH2	254533
	16	M24x1,5	R1/2 keg.	12	12	43	33	24,5	32	24	30	700	216	WEV 16S R1/2 keg. VH2	254534



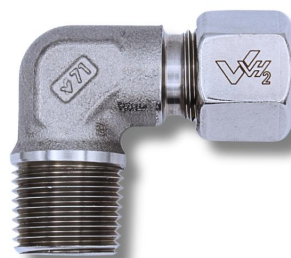
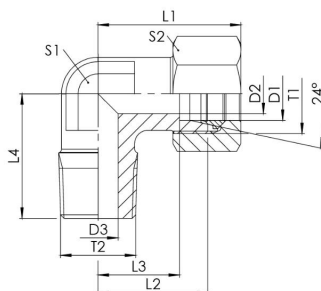
Hydrogen Fittings by Volz

Nominal working pressure	70 MPa
Test medium	Compressed air
Safety factor	1,5
Max. test pressure	105 MPa



Male Elbow Connector

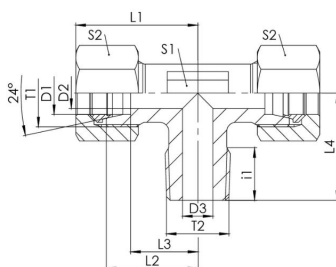
Stainless steel (1.4571/AISI 316Ti)



Series	D1	T1	T2	D2	D3	L1	L2	L3	L4	S1	S2	PN	Total weight	Name	Article No.
	mm			mm	mm	mm	mm	mm	mm	mm	mm	bar	g		
S	6	M14x1,5	M12x1,5	4	4	31	23	16	26	14	17	700	60	WEV 06S M12x1,5 keg. VH2	254526
	10	M18x1,5	M16x1,5	7	7	34	25	17,5	28	17	22	700	105	WEV 10S M16x1,5 keg. VH2	254527
	16	M24x1,5	M22x1,5	12	12	43	33	24,5	32	24	30	700	222	WEV 16S M22x1,5 keg. VH2	254528

Branch Tee

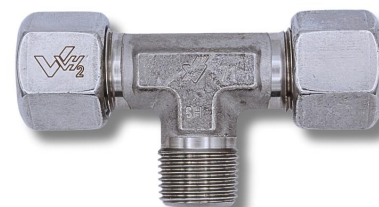
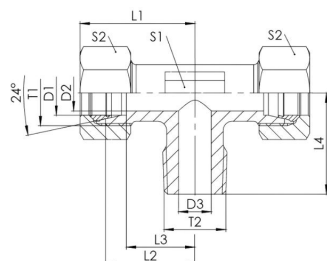
Stainless steel (1.4571/AISI 316Ti)



Series	D1	T1	T2	D2	D3	L1	L2	L3	L4	i1	S1	S2	PN	Total weight	Name	Article No.
	mm			mm	mm	mm	mm	mm	mm	mm	mm	mm	bar	g		
S	6	M14x1,5	1/4 NPT	4	4	31	23	16	26	15	12	17	700	99	TEV 06S 1/4 NPT VH2	254517
	10	M18x1,5	3/8 NPT	7	7	34	25	17,5	28	15,5	17	22	700	165	TEV 10S 3/8 NPT VH2	254518
	16	M24x1,5	1/2 NPT	12	12	43	33	24,5	36	20	24	30	700	344	TEV 16S 1/2 NPT VH2	254519

Branch Tee

Stainless steel (1.4571/AISI 316Ti)

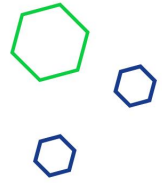


Series	D1	T1	T2	D2	D3	L1	L2	L3	L4	S1	S2	PN	Total weight	Name	Article No.
	mm			mm	mm	mm	mm	mm	mm	mm	mm	bar	g		
S	6	M14x1,5	R1/4 keg.	4	4	31	25	16	26	12	17	700	99	TEV 06S R1/4 keg. VH2	254523
	10	M18x1,5	R3/8 keg.	7	7	34	25	17,5	28	17	22	700	166	TEV 10S R3/8 keg. VH2	254524
	16	M24x1,5	R1/2 keg.	12	12	43	33	24,5	34	24	30	700	344	TEV 16S R1/2 keg. VH2	254525

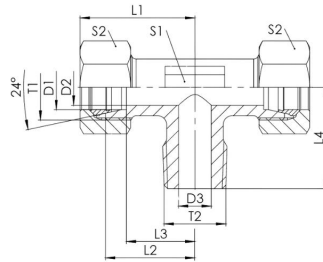


Hydrogen Fittings by Volz

Nominal working pressure	70 MPa
Test medium	Compressed air
Safety factor	1,5
Max. test pressure	105 MPa



Branch Tee
Stainless steel (1.4571/AISI 316Ti)



Series	D1	T1	T2	D2	D3	L1	L2	L3	L4	S1	S2	PN	Total weight	Name	Article No.
	mm			mm	mm	mm	mm	mm	mm	mm	mm	bar	g		
S	6	M14x1,5	M12x1,5 keg.	4	4	31	23	16	26	12	17	700	97	TEV 06S M12x1,5 keg. VH2	254520
	10	M18x1,5	M16x1,5 keg.	7	7	34	25	17,5	28	17	22	700	164	TEV 10S M16x1,5 keg. VH2	254521
	16	M24x1,5	M22x1,5 keg.	12	12	43	33	24,5	32	24	30	700	349	TEV 16S M22x1,5 keg. VH2	254522

