

	Single 90° bend or tee (NOTE 1)		l hends same		Several 90° bends, different planes (NOTE 1)		Reducer 3D to D over length of 3.5D		Expander 0.75D to D over length of D		Gate Valve Fully Open		Required outlet section B	
1	2A	2B	3A	3B	4A	4B	5A	5B	6A	6B	7A	7B	8A	8B
0.689	137.42	29.45	176.69	29.45	176.69	29.45	103.07	24.54	53.99	34.36	53.99	34.36	26.863	26.863

- (a) Values are expressed in INCHES.
- (b) Straight lengths shall be measured from the downstream end of the curved portion of the nearest (or only) bend or the downstream end of the curved or conical portion of the reducer or expander to the upstream pressure tapping plane of the classical Venturi tube.
- (c) If temperature pockets or wells are installed upstream of the classical Venturi tube, they shall not exceed 0.13D in diameter and shall be located at least 4D upstream of the upstream tapping plane of the Venturi tube.
- (d) For downstream straight lengths, fittings or other disturbances (as indicated in this Table) or densitometer pockets situated at least four throat diameters downstream of the throat pressure tapping plane do not affect the accuracy of the measurement.
- (e) Column A for each fitting gives lengths corresponding to "zero additional uncertainty" values.
- (f) Column B for each fitting gives lengths corresponding to "0.5% additional uncertainty" values.

ADDITIONAL NOTES:

- (1) The radius of curvature of the bend shall be greater than or equal to the pipe diameter.
- (2) The straight length in each Column A gives zero additional uncertainty, data are not available for shorter straight lengths that could be used to give the required straight lengths for each Column B.

über/over 30 bis/to 100								
	über/over	30	±0,3					
	bis/to	100						
	über/over	100	±0,5					
	bis/to	300	±0,3					
	über/over	300	+O 0					
	bis/to	1000	±0,8					
	über/over	1000	.10					
	bis/to	2000	±1,2					
E	Untolerierte Maße nach/ Untolarate Dimensions acc. EN ISO 13920- class/Klasse B							
	über/over	2	±1					
	bis/to	30	Δ1					
	über/over	30	±2					
	bis/to	120	12					
	über/over	120	±2					
	bis/to	400	12					
	über/over	400	±3					
	bis/to	1000	13					
	über/over	1000	±4					
E	bis/to	2000	14					
	über/over	2000	±6					
E	bis/to	4000	±0					
	über/over	4000	±8					
F	bis/to	8000	±0					
	über/over	8000	.10					
	bis/to	12000	±10					
	über/over	12000	±12					
	bis/to	16000	±1Z					
	über/over	16000	.14					
	bis/to	20000	±14					
			11/					
	über/over	20000	±16					

Untolerierte Maße nach/ Untolarate Dimensions acc DIN 7168-mittel

±0,2

D über/over

							D	
		D	Modification of weldin lenght for pos. 1.	g ends and	23.05.16	LB		
Construction Code: ASME Sec Clasification: NBEP	ction I, Ed. 2013	С	Modification of pressur	07.04.16	LB			
Supporting Code: ASME B31		В	Implementation of cus	03.02.16	LB			
· · · · · · · · · · · · · · · · · · ·	ot required by customer)		for required straight lengths.					
appl. Code cases: N.A. (r	not required by customer)	Α	Initial release	21.12.15	LB			
Medium:	Superheated steam	Index rev.	Anderungshinweis / revision	Datum Date	Name			
PWHT: YES			Revisions					
Baujahr/Year built:	2016	Inspector: SEIKO						
Gew./Weight: (kg)	686 lb / ~311 kg	Einbaulage/mounting pos.: horizonto						
Abmessungen./Dimensi	ons: (mm)	Druckentnahmestutzen/taps: 4 pair					Е	
L: 860 mm W: 520 mm H: 324 mm 33,86 in 20,47 in 12,75 mm			Corrosion protection:					
PS (max. Pressure): 280	5Psig/19340kPa/193,4 bar(g)	Oberflächenbeh./Surface treatment: SA2.5						
T\$ (max. Temp.): 1068°F / 576 °C			KS-Nr./TAG-No.: Fabr. Nr./Sei			rial No.:		
PT (Testpressure):Inline! 42	06Psig/ 29000 kPa/290 bar(g)		1MS-FE3003 SEI1:			5_2817		
Isolierstärke/Insulation thic	kness mm							
Corrosion allowance:	0 mm							
SEIKO SEIKO			Benennung/Title: 12" Sch. 1,5					
			HP Steam Outlet Flow Element					
			nungs-Nr./Drawing-No.:	Type:		F		
V17494 - Middletown Energy Center & V17495 -Kings				, ,				
Moutain Energy Center	FLOWCONTROL	Seiko	: A16020088-150	HVRS_	EXT			
PO: V0009647 Item #3	HO: A16020088-150712	Kunde: Vogt Power International (VPI) 2/2						
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