→ Series 2143

2143

Dirt trap made of stainless, in straight-through



SUITABLE FOR

Liquids	neutral and non-neutral
Air, gases and vapours	neutral and non-neutral

EXAMPLES OF USE

Dirt trap in straight-through form for use on cryogenic tanks, cryogenic containers, transport containers and systems for the production, storage and transport of cryogenic liquefied gases such as LIN, LOX, CO2, LAr, LNG.

- N_2 in pharmaceutical / foodstuffs applications
- O_2 for medical supply equipment
- CO_2 for foodstuffs/ industrial applications
- LAr for welding
- Cooling plants

The fittings are always manufactured free of oil and grease.

MATERIAL

SPECIFICATION

DN 10 - DN 50 | –196°C to +120°C | PN 63

APPROVALS

EU type examination

TR ZU 032/2013 - TR ZU 010/2011

Requirements

DGR 2014/68/EU
UK PESR 2016 No. 1105

MATERIAL

Component	Material	DIN EN	ASME
Body	Stainless steel	1.4409	CF3M
Valve upper section	Stainless steel	1.4408 / 1.4404	CF8M / 316L
Screws	Stainless steel	1.4301	304
Seal valve upper section	PTFE mod.	PTFE mod.	PTFE mod.
Strainer	Stainless steel	1.4301	304

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Serie 2143 ■ VALVE VERSION

s	Standard	for neutral and non-neutral media

■ MEDIUM

GF	gaseous and liquid	Cryogenic liquified gases, vapours and liquids, for gaseous oxygen maximum 40 bar / maximum 60 C

■ MESH SIZE STRAINER

025	Mesh size 250µm (standard)
010	Mesh size 100µm (on request)

■ MATERIAL STRAINER

	Material	DIN EN	ASME
01	stainless steel	1.4301	304

other materials available on request.

■ AVAILABLE NOMINAL DIAMETERS AND CONNECTION SIZES

Nominal diameter DN		**10**	**15**	**20**	**25**	**32**	**40**	**50**
Inlet		3/8“ (10)	1/2“ (15)	3/4“ (20)	1“ (25)	1 1/4“ (32)	1 1/2“ (40)	2“ (50)
Outlet	3/8“ (10)	■						
	1/2“ (15)		■					
	3/4“ (20)			■				
	1“ (25)				■			
	1 1/4“ (32)					■		
	1 1/2“ (40)						■	
	2“ (50)							■

■ TYPE OF CONNECTION INLET / OUTLET

SE1 / SE1	butt weld SE1 / butt weld SE1	DIN EN ISO 1127 / DIN EN ISO 1127
SE2 / SE2	butt weld SE2 / butt weld SE2	ASTM A312 S10 / ASTM A312 S10
SE3 / SE3	butt weld SE3 / butt weld SE3	ASTM A312 S40 / ASTM A312 S40
SM1 / SM1	socket weld SM1 / socket weld SM1	DIN EN ISO 1127 / DIN EN ISO 1127
SM2 / SM2	socket weld SM2 / socket weld SM2	ASTM A312 S10 / ASTM A312 S10
SM3 / SM3	socket weld SM3 / socket weld SM3	ASTM A312 S40 / ASTM A312 S40
f / f*	female thread BSP-P / female thread BSP-P	DIN EN ISO 228-1 / DIN EN ISO 228-1
NPTF-f / NPTF-f	female thread NPTFf / female thread NPTFf	ANSI B1.20.3 / ANSI B1.20.3

* Threaded connection and other connections on request.

■ DIMENSIONS AND ORDERING CODE FOR PIPE CONNECTIONS

Nominal diameter	**DN**	**10**	**15**			**20**		**25**	**32***	**40**		**50**
Connection type for pipes according to DIN EN ISO 1127	D	12,0	16,0	17,2	21,3	22,0	26,9	33,7	38,0	42,4	48,3	60,3
Dimensions for butt weld **SE1** / socket weld **SM1**	e	1,0	1,5	1,6	2,0	2,0	2,0	2,0	2,0	2,0	2,0	2,0
Order code **XX**		AA	AD	AE	AF	AG	AH	AJ	AK	AL	AN	AO
Connection type for pipes according to ASTM A312 S10	D	13,72		17,15	21,34		26,67	33,40		42,16	48,26	60,33
Dimensions for butt weld **SE2** / socket weld **SM2**	e	1,65		1,65	2,11		2,11	2,77		2,77	2,77	2,77
Order code **XX**		AQ		AS	AU		AW	AY		BA	BC	BE
Connection type for pipes according to ASTM A312 S40	D	13,72		17,15	21,34		26,67	33,40		42,16	48,26	60,33
Dimensions for butt weld **SE3** / socket weld **SM3**	e	2,24		2,31	2,77		2,87	3,38		3,56	3,68	3,91
Order code **XX**		AR		AT	AV		AX	AZ		BB	BD	BF

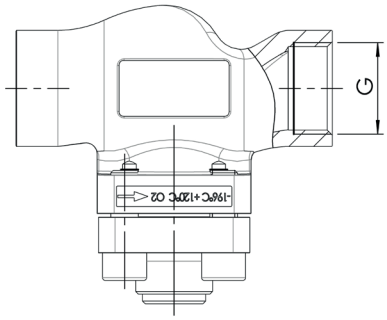
* Other connection types on request.

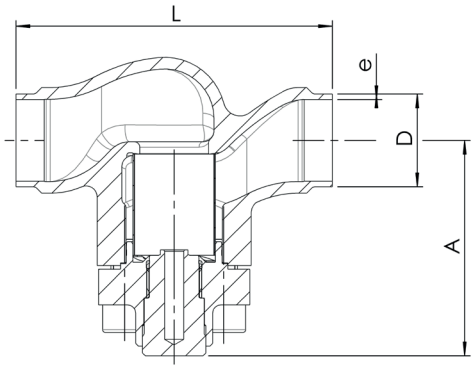
NOMINAL DIAMETERS, CONNECTIONS, INSTALLATION DIMENSIONS

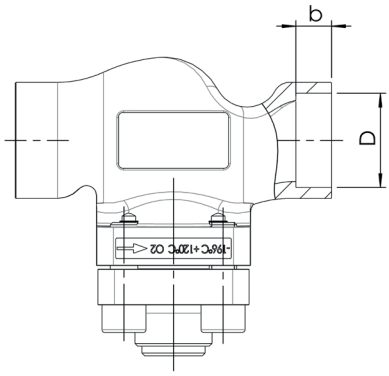
Series 2143: Connection, installation dimensions

Nominal diameter	DN	10	15	20	25	32	40		50
Pressure level	PN	63	63	63	63	63	63	63	63
Operating pressure	bar	63	63	63	63	63	63	63	63
Threaded connection	G	1/4	1/2	3/4	1	-	1-1/4	1-1/2	2
Installation dimensions in mm	L	70	85	100	115	115	130		155
	b	6	10	13	13	13	13		16
	A	75	77	75	79	106	104		107
Weight	kg	0,7	0,9	1,2	1,4	2,2	3,1		4,7
Kvs-value	m³/h	1,6	3,6	6,5	10,2	14,0	19,2	21,2	31,0
Cv-value	gal/min	1,9	4,2	7,6	11,9	16,3	22,4	24,7	36,1

MAIN DIMENSIONS, INSTALLATION DIMENSIONS







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Series	Valve version	Medium	Mesh size strainer	Material strainer	Nominal diameter DN	Connection type		Connection size
						Inlet	Outlet	Inlet / Outlet
2143	**s**	**GF**	*025*	*01*	*25*	*SE1*	*SE1*	*AJ / AJ*
2143	**s**	**GF**	*016*	*01*	*40*	*SM3*	*SM3*	*BD / BD*
2143								
2143								

■ CERTIFICATES / APPROVALS

C01	Factory certificate acc. DIN EN 10204 2.2 (WKZ 2.2)	☐	**C06**	ATEX evaluation acc. to 2014/34/EU	☐
C02	Test certificate acc. DIN EN 10204 3.1 (WPZ 3.1)	☐	**C11**	Certification of the production process especially for gaseous oxygen applications by employment of specific materials	☐
C03	Material test certificate acc. DIN EN 10204 3.1 (MPZ 3.1) (pressure retaining part)	☐			☐

■ ADMISSIONS / ACCREDITATIONS

AA1	EC Type examination acc. to Directive 2014/68/EU	☐			☐
AA4	EAC - certificate/declaration with passport for the valve and laser marking of the valve	☐			☐
AA11	UK Type examination acc. to Directive UK PESR 2016 No. 1105	☐			☐

■ ENQUIRY

Copy and send to: order@goetze-armaturen.de.