Safety valves and fittings for cryogenic applications

8.4

2700

Diverter ball valve made of
stainless steel with
threaded connections

→ Series 2700

CE

MATERIAL

EDELSTAHL Rostfrei®

SPECIFICATION

3/4" – 1 1/4"   – 200°C to + 120°C   PN 63

SUITABLE FOR

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

EXAMPLES OF USE

Diverter ball valve for the installation of for example two safety valves in combination with bursting discs for the protection of containers designed for the storage of cryogenic gases. The requirements of the PED relating to redundant or diverse safety devices are fulfilled by this fitting in combination with safety valves of the 2400 / 24800 series. On each side two additional connections for bursting discs are available.

In case the safety valves need to be maintained or the bursting discs replaced, the side requiring maintenance can be shut off.

- For the storage of cryogenic liquified gases, such as LIN, LOX, LAr, CO_2, 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 ball-valves are oil- and grease-free as standard.

APPROVALS

TR ZU 032/2013 - TR ZU 010/2011

Requirements

AD 2000 Data sheet A2
PED 2014/68/EU

POSSIBLE MATERIAL COMBINATIONS

Material Combination	Body	Internal parts	Primary Seal	Secondary Seal
M4541	1.4408	1.4404	PTFE mod.	PTFE

B01	L-Bore
B02	T-Bore

■ MEDIUM

GF	gaseous and liquid	Cryogenic liquified gases, vapours and liquids

■ MEANS OF OPERATION

A01	Cranked handle made of gunmetal

■ AVAILABLE NOMINAL DIAMETERS AND CONNECTION SIZES

Nominal diameter DN		15	20	25
Inlet		3/4" (20)	1" (25)	1 1/4" (32)
Outlet	1/2" (15)	■		
	3/4" (20)		■	
	1" (25)			■

■ TYPE OF CONNECTION INLET / OUTLET THREADED CONNECTIONS

f / f	Standard	Female thread BSP-P / Female thread BSP-P	DIN EN ISO 228-1 / DIN EN ISO 228-1
NPT-f / NPT-f		Female thread NPT-f / Female thread NPT-f	ANSI 1.20.1 / ANSI 1.20.1

Series 2700: Connection, installation dimensions

Nominal diameter	DN	15	20	25
Connection DIN EN ISO 228	Gi	3/4" (20)	1" (25)	1 1/4" (32)
Outlet DIN EN ISO 228	Got / Gob	1/2" (15)	3/4" (20)	1" (25)
Installation dimensions in mm	T1	20	20	21
	T2/T3	14	16	18
	H1	37	41	46
	H2	64	72	82
	H3	86	94	105
	H4	120	128	142
	B1	23	23	33
	B2	40	50	50
	B3	45	52	55
	B4	47	62	66
	L1	198	231	265
	L2	140	165	195
	L3	161	161	184
	SW1	9	9	14
	SW2	30	36	41
	K	30	30	30
	G4	M10	M10	M10
	T4	10	10	10
Test port	G1/4	1/4"	1/4"	1/4"
Weight	kg	2,3	3,8	5,0
Kvs-value	m3/h	6,9	12,2	23,6

■ MAIN DIMENSIONS, INSTALLATION DIMENSIONS
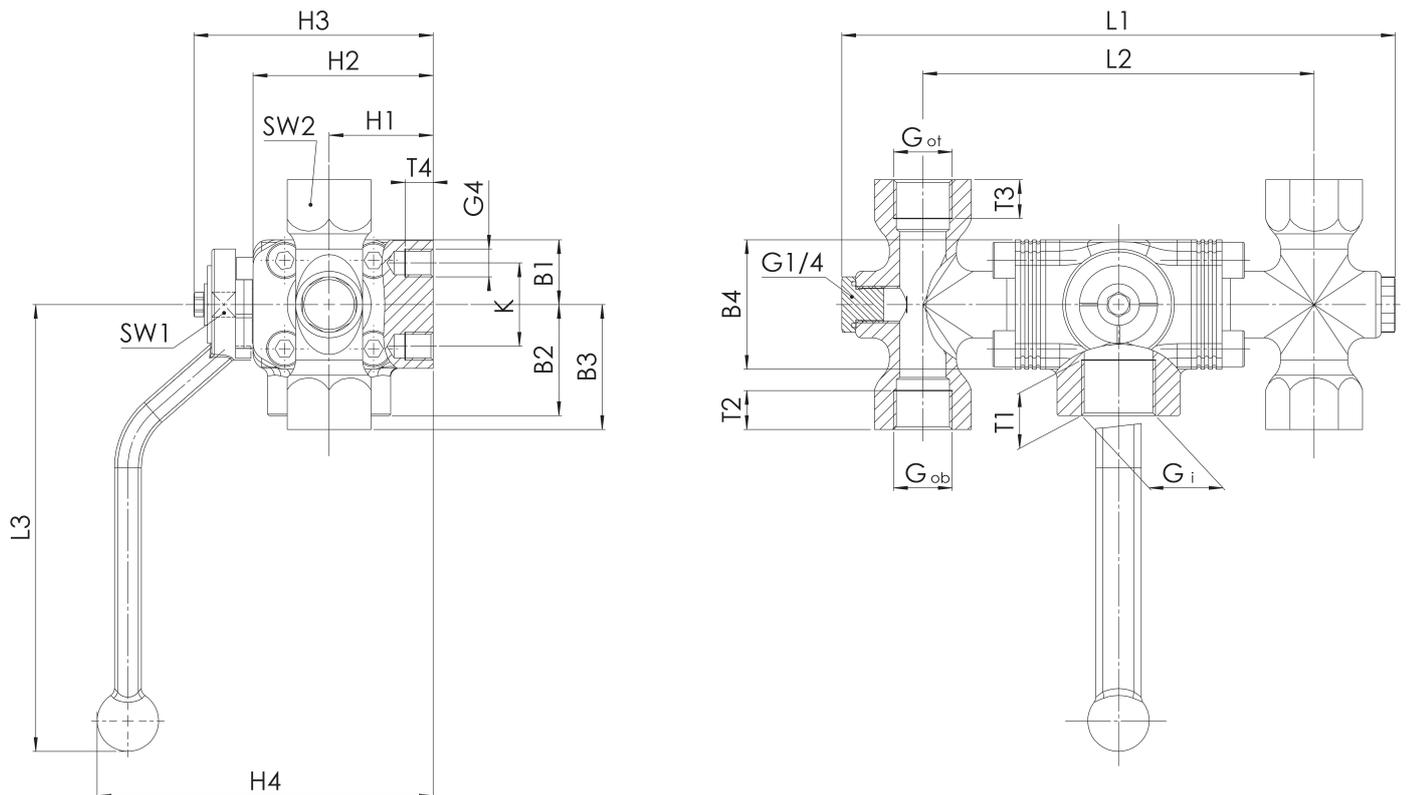
Series	Ball Version	Medium	Operation	Nominal diameter DN	Connection type		Connection size		Material Combination	Options	Quantity
					Inlet	Outlet	Inlet	Outlet			
2700	B02	GF	A01	15	f	f	20	15	M4541		2
2700		GF	A01						M4541		
2700		GF	A01						M4541		
2700		GF	A01						M4541		

■ TECHNICAL FINISHES, VARIANTS, ACCESSORIES

S75	Fitted with lateral overflow valve DN10 to prevent the activation of the safety valves	☐
S76	Fitted with lateral overflow valve DN15 to prevent the activation of the safety valves	☐
		☐

■ CERTIFICATES / APPROVALS

C01	Factory certificate acc. DIN EN 10204 2.2 (WKZ 2.2)	☐	C05	Sealing material Manufacturer certification (FDA, USP 3, 3-A,…), Please indicate description of certificate:	☐
C02	Test certificate acc. DIN EN 10204 3.1 (WPZ 3.1)	☐	C06	ATEX evaluation acc. to 2014/34/EU	☐
C03	Material test certificate acc. DIN EN 10204 3.1 (MPZ 3.1) (pressure retaining part)	☐	C10	Certificate of oil- and grease free production	☐

■ ADMISSIONS / ACCREDITATIONS

AA1	EC Type examination acc. to Directive 2014/68/EU	☐	AL	Individual inspection by notified body inspector – (body to be indicated):	☐
AA4	EAC - certificate/declaration with passport for the valve and laser marking of the valve	☐			☐
		☐			☐

■ ENQUIRY

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

Order form easily to be found online under the section for each series.