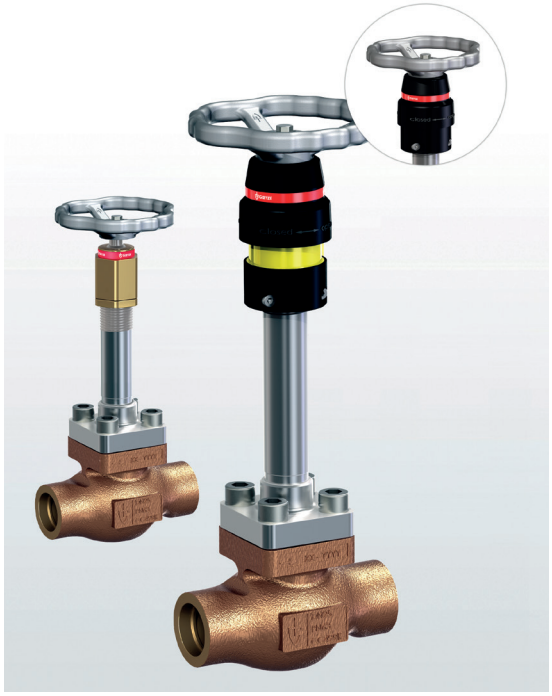
→ Series 2180

2180

shut-off valve made of gunmetal with threaded connections



SUITABLE FOR

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

EXAMPLES OF USE

Shut-off valve with position indicator 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. Due to the standard position indicator, the stroke position / position can be immediately recognised via the yellow visual indicator of the manual actuator. The shut-off valve can also be designed with an integrated non-return function.

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

The pressure regulators 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
DIN EN 1626
TPED 2010/35/EU
UK PESR 2016 No. 1105

MATERIAL

Component	Material	DIN EN	ASME
Body	Gunmetal	CC499K	CC499K
Valve upper section	Stainless steel	1.4408	CF8M
Extension tube	Stainless steel	1.4404	316L
Threaded bush	Tin bronze	CW459K	C52100
Valve cone	Brass	CW617N	CW617N
Screws	Stainless steel	1.4301	304
Hand wheel	Stainless steel	1.4408	CF8M
Seals	PTFE mod.	PTFE mod.	PTFE mod.
Position indicator	Plastic	PA glass fibre reinforced	PA glass fibre reinforced
Compression spring*	Stainless steel	1.4310	302
Cone guide*	Stainless steel	1.4404	316L

* only with non-return function

Serie 2180 ■ VALVE VERSION

s	Standard	for neutral and non-neutral media
r	with non-return function	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

■ TYPE OF OPERATION

R	manual operation with position indicator (standard)
S	manual operation without position indicator

■ AVAILABLE NOMINAL DIAMETERS AND CONNECTION SIZES

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

■ INITIATIVE HEIGHT

A1	190mm (DN25) / 220mm (DN40)	Upper section without extension (short version)
A2	270 mm	Stainless steel extension tube
A3	370 mm	Stainless steel extension tube

NOTE: Dimensions A1 - A3 with valve closed. Please select a initiativ height that does not cause icing on the spindle seal. | Further initiativ heights on request.

■ TYPE OF CONNECTION INLET / OUTLET

LM1 / LM1	soldering socket LM1 / soldering socket LM1	DIN EN ISO 1127 / DIN EN ISO 1127
LM2 / LM2	soldering socket LM2 / soldering socket LM2	ASTM A312 S10 / ASTM A312 S10
LM3 / LM3	soldering socket LM3 / soldering socket LM3	ASTM A312 S40 / ASTM A312 S40
LM4 / LM4	soldering socket LM4 / soldering socket LM4	DIN EN 12449 / DIN EN 12449
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 NPTF-f / female thread NPTF-f	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	17,2	21,3		26,9	33,7	42,4	48,3	60,3
Dimensions for soldering socket **LM1** / soldering socket **LM1**	e	2,3	2,6		2,9	3,2	3,2	3,6	3,6
Order code **XX**		CK	CL		CM	BN	CN	CO	CP
Connection type for pipes according to ASTM A312 S10	D	17,15	21,34		26,67	33,40	42,16	48,26	60,33
Dimensions for soldering socket **LM2** / soldering socket **LM2**	e	1,65	2,11		2,11	2,77	2,77	2,77	2,77
Order code **XX**		AS	AU		AW	AY	BA	BC	BE
Connection type for pipes according to ASTM A312 S40	D	17,15	21,34		26,67	33,40	42,16	48,26	60,33
Dimensions for soldering socket **LM3** / soldering socket **LM3**	e	2,31	2,77		2,87	3,38	3,56	3,68	3,91
Order code **XX**		AT	AV		AX	AZ	BB	BD	BF
Connection type for pipes according to DIN EN 12449	D	12	15	18	22	28,00	35	42,00	54
Dimensions for soldering socket **LM4** / soldering socket **LM4**	e	1	1,5	1,5	1,5	1,50	1,5	1,50	2
Order code **XX**		AA	AC	BH	BI	BJ	BK	BL	BM

* Available from 2023.

■ SEALS

PTFE	Polytetrafluoroethylene	PTFE mod.	–196°C to +120°C

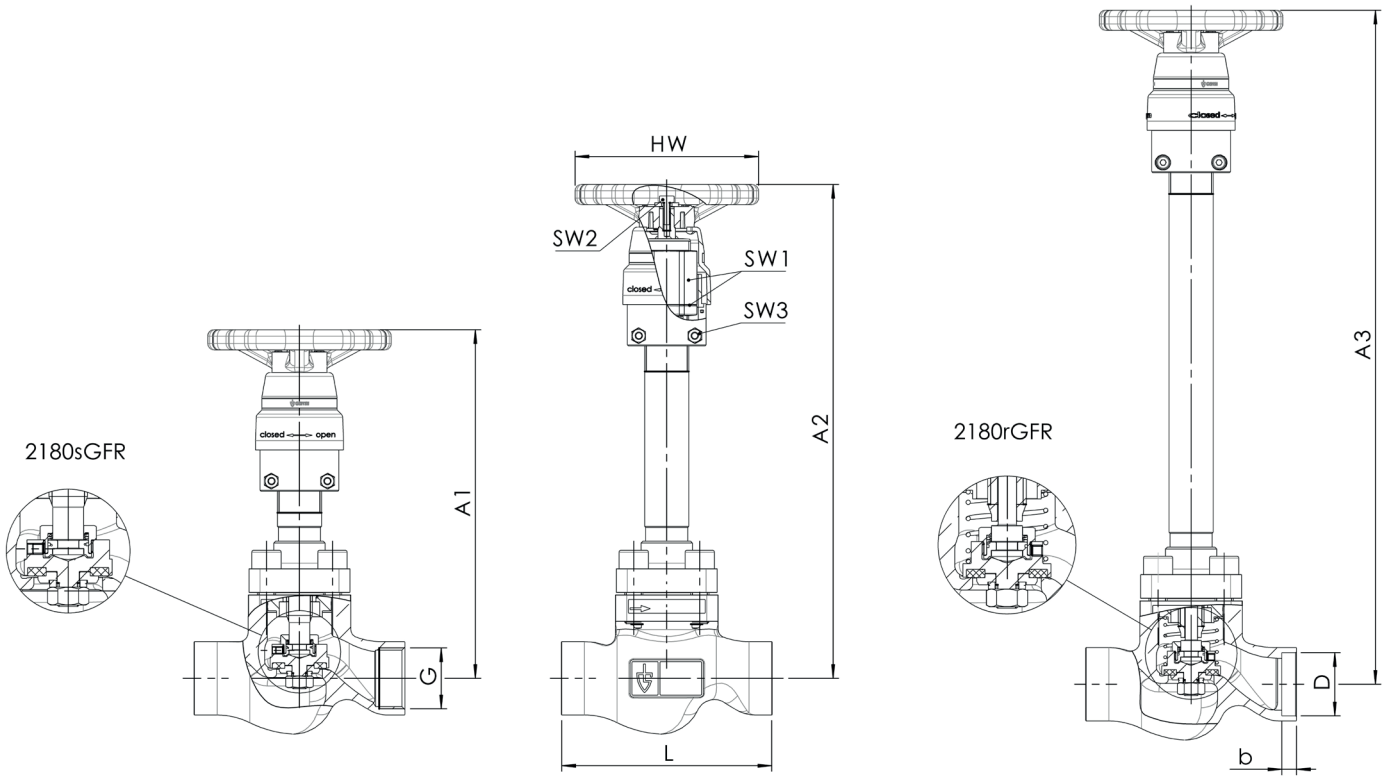
NOMINAL DIAMETERS, CONNECTIONS, INSTALLATION DIMENSIONS

Series 2180: 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	50
Threaded connection	G	¼	3/8	1/2	3/4	1	1 1/4	1 1/2	2
Installation dimensions in mm	L	60		85	85	115	115	140	160
	b	6		6	8	8	10	13	20
	A1*	202		204	205	206	237	241	242
	A2*	282		284	285	286	287	291	292
	A3*	382		384	385	386	387	391	392
	HW	100		100	100	100	125	125	125
	SW1	30		30	30	30	36	36	36
	SW2	8		8	8	8	13	13	13
	SW3	3		3	3	3	3	3	3
Weight (hight A1)	kg	0,8		1,1	1,4	1,8	2,5	3,7	5,3
Weight (hight A2)	kg	0,9		1,2	1,5	1,9	2,6	3,8	5,4
Weight (hight A3)	kg	1,2		1,5	1,8	2,2	3,0	4,2	5,8
Kvs-value	m³/h	1,6		4,4	6,8	11,5	12,2	22,0	40
Cv-value	gal/min	1,9		5,1	7,9	13,4	14,2	25,9	46,4

* Dimensions A1 - A3 with valve open. Further initiativ heights on request.

MAIN DIMENSIONS, INSTALLATION DIMENSIONS



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Series 2180 ■ INDIVIDUAL SELECTION / VALVE CONFIGURATION

Series	Valve version	Medium	Type of operation	Initiative Height	Nominal diameter DN	Connection type		Connection size	Seal
						Inlet	Outlet	Inlet/Outlet	
2180	s	GF	*R*	*A1*	*25*	*LM4*	*LM4*	*BJ / BJ*	PTFE
2180	r	GF	*S*	*A2*	*40*	*f*	*f*	*40 / 40*	PTFE
2180									
2180									

■ CERTIFICATES / APPROVALS

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

■ 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.