→ Series Hygienic 4060

Hygienic 4060

Safety valve made of stainless steel, angle type, with stainless steel spring

SUITABLE FOR

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

EXAMPLES OF USE

For the protection of:
- processes, plants and containers in the food and pharmaceutical industry for air, neutral and non-neutral vapours and gases, steam and liquids

- food industry
- Dairy industry
- breweries and beverage industry
- pharmaceutical industry
- Cosmetic industry
- Medical technology
- Clean Service applications

FEATURES

- Smooth and faultless surface finish optimized for cleaning process
- Minimal dead space in inlet area and no gaps in the valve
- Exposed and rinsed o-ring seals
- Shape of valve body avoids forming of puddles in the valve after it has opened
- Suitable for CIP/SIP due to pneumatic lifting device
- Gap-free installation of seals in contact with the medium
- Surface roughness standard Ra<0,8 µm (Internal product wetted parts), Ra<1,6 µm (outside, not product wetted parts)
- Moulded diaphragm to divide the product chamber from the spring housing
- Dead space ratio L/D < 0,9

MATERIAL

SPECIFICATION

DN 25

–40°C bis + 200°C
depending on version

0,4 – 16 bar
depending on valve pressure range and service temperature

APPROVALS

TÜV-Type test approval 2111	**D/G, F**
EU type examination	**S/G, L**
TR ZU 032/2013 -TR ZU 010/2011	**D/G (S/G), F (L)**
Requirements	
DIN EN ISO 4126-1 DGR 2014/68/EU TRD 421	AD 2000 Data sheet A2 VdTÜV Guideline SV 100

MATERIALS

Component	Material	DIN EN	ASME
Body	Stainless steel	1.4435	316 L
Inner parts, wetted	Stainless steel	1.4435	316 L
Upper section, other inner parts	Stainless steel	1.4404	316 L
Spring	Stainless steel	1.4310	302

Series 4060 ■ VALVE VERSION

t	Standard with diaphragm	for neutral and non-neutral media. Spring, moving parts and the environment are protected from being affected by the medium.

Parts which are difficult to clean in the guide, the spring housing and the spindle / disc combination are protected against soiling by elastomer diaphragm.

■ MEDIUM

GF	gaseous and liquid	Air, vapours, gases, liquids and - depending on safety valve version and seal - also for steam

■ TYPE OF LIFTING MECHANISM

P	Pneumatic lifting device
L	with lifting lever
O	without lifting device, with additional gas-tight cap

■ AVAILABLE NOMINAL DIAMETERS AND CONNECTION SIZES

Connection type		**RODIN**
Nominal diameter DN		**25**
Inlet DN	Standard	**25**
Outlet DN	25 (1“)	■

■ TYPE OF CONNECTION INLET / OUTLET

RODIN / RODIN	Standard	pipe connection / pipe connection	Pipe standard DIN 11850 / 11866-A

other connections on request

■ SEALS / DIAPHRAGM

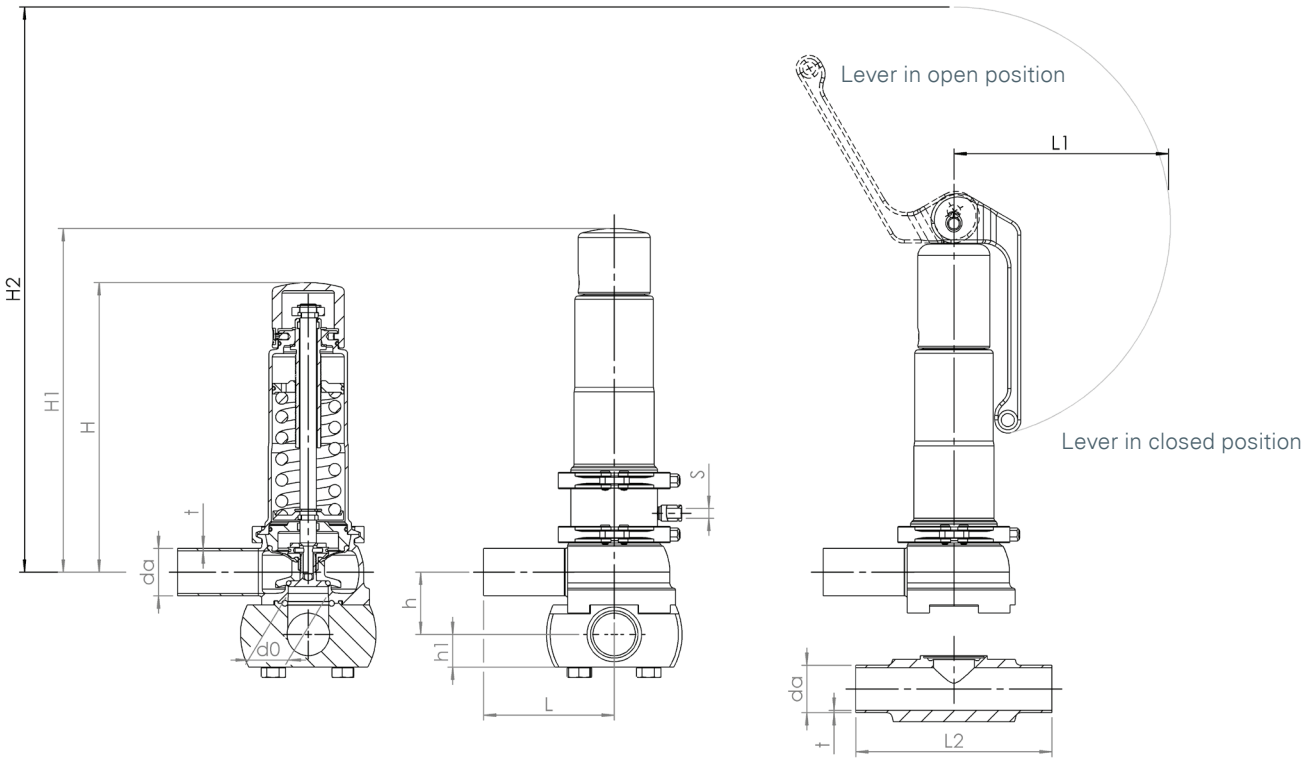
FKM	Fluorcarbon	Seals / diaphragms	FDA, USP	–20°C to +200°C
EPDM	Ethylene propylene diene	Seals / diaphragms	FDA, USP	–40°C to +170°C
HNBR	Hydrogenated acrylonitrile butadiene rubber	Seals / diaphragms	FDA	–20°C to +150°C

NOMINAL DIAMETERS, CONNECTIONS, INSTALLATION DIMENSIONS

Series Hygienic 4060: Connection, installation dimensions, ranges of adjustment		
Nominal diameter	**DN**	**25**
Connection type [1]		**Pipe**
Connection inlet	**da x t**	29 x 1,5
Connection outlet	**da x t**	29 x 1,5
Installation dimensions in mm	**L**	80
	L1[4]	132
	L2	120
	h	38
	h1	20
	H	177
	H1[3]	212
	H2[4]	350
Compressed air connection in mm	**S**	6
	α_w / K_{dr} (F)	0,33
	α_w / K_{dr} (D/G)[2]	0,44
	do	24,5
Weight	**kg**	3,3
	kg[3]	3,6
	kg[4]	3,7
Range of adjustment	**bar**	0,4 - 16

[1] further connection size possible, Dimensions according to separate main dimension
[2] Coefficient of flow for D/G valid for 6 bar or more, for smaller set pressures see values in capacity table.
[3] Values for version with pneumatic lifting device
[4] Values for version with lifting lever

MAIN DIMENSIONS, INSTALLATION DIMENSIONS



Series 4060 ■ INDIVIDUAL SELECTION / VALVE CONFIGURATION

Series	Valve version	Medium	Lifting device	Nominal diameter DN	Connection type Inlet	Connection type Outlet	Connection type Inlet	Connection type Outlet	Seal	Options	Set pressure	Quantity
4060	t	GF	*P*	*25*	*RODIN*	*RODIN*	*25*	*25*	*EPDM*	*P07*	*3,2*	*1*
4060	t	GF										
4060	t	GF										
4060	t	GF										
4060	t	GF										

■ TECHNICAL FINISHES, VARIANTS, ACCESSORIES

S62	Inductive proximity sensor, fitted, for indication of valve position, including connection cable 5m[1]	☐
		☐
		☐

[1]not available for version tGFL (with lifting lever)

■ PROPERTIES

P01	Oil- and grease-free production	☐		☐
P05	Quality of surfaces in contact with media in inlet Ra <= 0.4	☐		☐
P07	Electropolished surfaces	☐		☐

■ 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)	☐	**C07**	SIL evaluation relating to IEC 61508-2	☐
C03	Material test certificate acc. DIN EN 10204 3.1 (MPZ 3.1) (pressure retaining part)	☐	**C09**	Seat tightness test with helium, leak detection method under vacuum incl. Factory Inspection Certificate 3.1 acc. to DIN EN 10204	☐
C04	TÜV/DEKRA individual inspection acc. EN 10204 3.2 (TÜV/DEKRA-APZ)	☐	**C10**	Certificate of oil- and grease free production	☐
C05-1	Sealing material Manufacturer certification (FDA, USP,...), Please indicate description of certificate:.....	☐			☐

■ ADMISSIONS / ACCREDITATIONS

AA1	EC Type examination acc. to Directive 2014/68/EU	☐	**AL**	Individual inspection by notified body inspector – (body to be indicated):	☐
AA2	TÜV component test acc. to VdTÜV specification sheet SV 100	☐			☐
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.

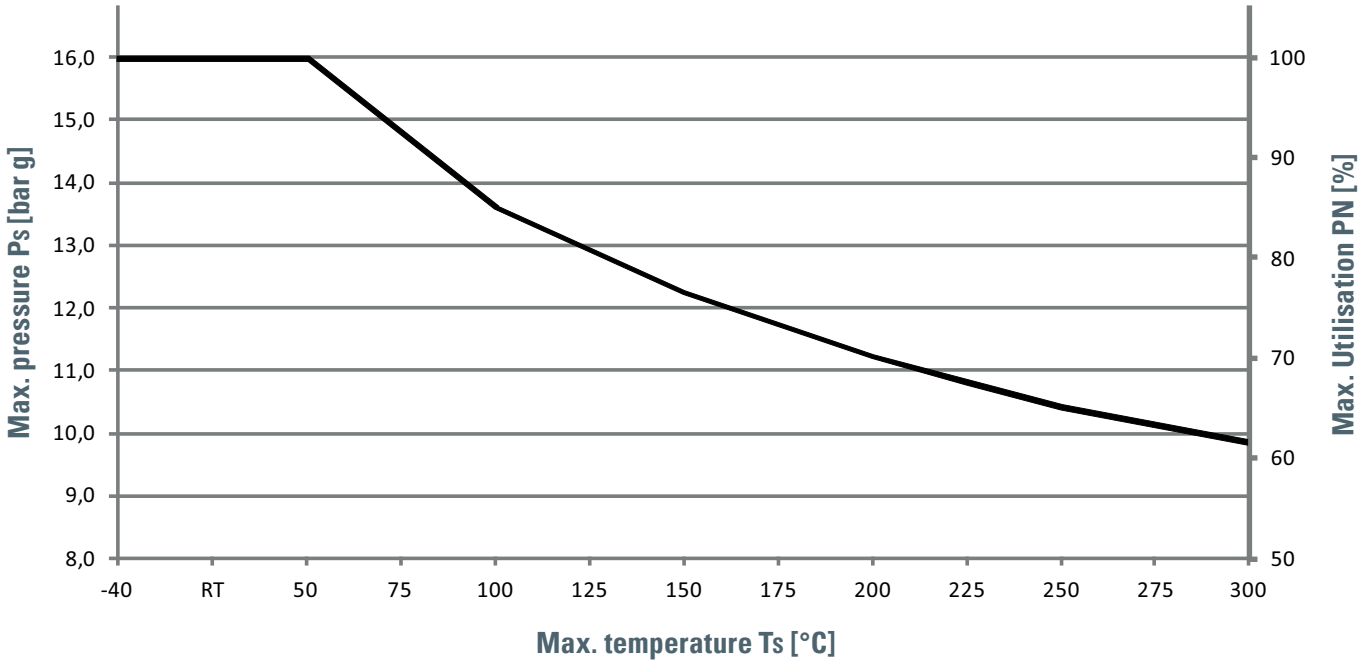
CAPACITY TABLE ACC. TO ISO 4126-1 / AD2000 A2

Series Hygienic 4060: Blowing-off rates at 10% above set pressure

Nominal diameter DN		25		
		d_0 = 24,5 mm		
Set pressure bar (g)		I	II	III
	0,4	144,3	119,0	5,5
	0,7	193,7	155,5	6,2
	1,0	239,2	190,4	7,3
	1,5	319,1	252,2	8,9
	2,0	395,3	310,6	10,3
Air I	2,5	465,4	363,9	11,6
Nm³/h	3,0	536,1	417,4	12,7
	3,5	604,6	469,1	13,7
Steam II	4,0	673,2	520,7	14,6
kg/h	4,5	741,8	572,2	15,5
	5,0	810,3	623,6	16,4
Water III	5,5	878,9	674,9	17,2
m³/h	6,0	947,5	726,0	17,9
	6,5	1016,0	777,2	18,7
	7,0	1084,6	828,4	19,4
	7,5	1153,2	879,5	20,1
	8,0	1221,7	930,5	20,7
	8,5	1290,3	981,5	21,3
	9,0	1358,9	1032,4	22,0
	9,5	1427,4	1083,4	22,6
	10,0	1496,0	1134,3	23,2
	11,0	1633,1	1236,3	24,3
	12,0	1770,3	1338,0	25,4
	13,0	1907,4	1439,6	26,4
	14,0	2044,5	1541,6	27,4
	15,0	2181,7	1643,6	28,4
	16,0	2318,8	1745,2	29,3

Pressure-/ temperature rating

PN 16 | Material: 1.4404 / 1.4435



Control air pneumatic lifting device (max. 6 bar)