



**maintenance -free,
soft seated,
ball valves
with floating ball**

flanged ends

DN 15 – PN 40

DN 25 – PN 40

DN 40 – PN 40

DN 50 – PN 40

Type VFD

The sealing variants are approved in accordance with the German clear air regulations „TA-Luft 2021“

Fields of application

General industry, power plants, chemical, oil and petrochemical industry

Operating data

Temperature range, depending on the operating pressure:
-10°C to +200°C

Temperatures out of range? Contact VH Armaturen GmbH
Pressure –temperature rating see table at page 2

open - closed - fitting

Materials [acc. DIN EN (DIN)]

body: - 1.4408

ball: - 1.4404/ 1.4408

sealings:
seatings - pure TFM

other materials on request.

Design

One-piece body, full bore
encapsulated seat rings
ANTI STATIC (as) – feature

Pressure equipment directive (PED) 2014/68/EU (category III)

VbF, Gas-HL-VO, WHG

„TA-Luft 2021“ approved (2021 acc ISO15848-1)

Fire-Safe acc. to BS 6755-2 and ISO 10497

Mounting flange acc. to DIN ISO 5211

Order specification

Ball valve TOPI 510 (acc. data sheet 8225.1)

Nominal diameter DN

Nominal pressure PN

Operating conditions

Flow media, temperature, pressure

Connection acc. to DIN EN

Identification number

Coating

Alkyd resin lacquer, pacific blue- RAL 5002
Stainless steel without coating

additional testing i.e. DIN EN 12266-2/DIN 3230-5
on customers request

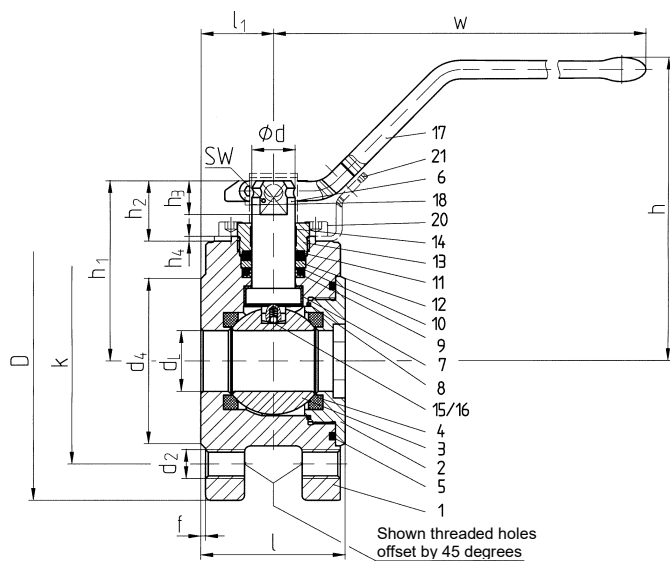


Table 1: Materials

Pos.	item-Nr.	designation	material
1	108	body	1.4408
2	139	screw-in part	1.4408
3	365	ball	1.4404/08
4	515	seat-ring	pure TFM
5	411.4	outer sealing ring, body	Graphite
6	210	stem	1.4462
7	310.2	lower control shaft bearing	PTFE-M
8	411.2	inner sealing-ring, body	pure PTFE
9	413	wedge-facing-ring	pure PTFE
10	503	wedge-ring	Graphite
11	411.3	wedge-ring	Graphite
12	474	thrusting	1.4571/1.4404
13	544	stuffingbox-screw	1.4571
14	310.3	upper control shaft bearing	1.4401/PTFE
15/16	560	antistatic device	1.4571
17	965	handle	1.4308
18	914.2	allen screw M6x16	A2-70
20	914.1	allen screw M5x20	8.8 gal Zn
21	555	handle-touch/lockable combination	1.4301

Table 2: Dimension and weights

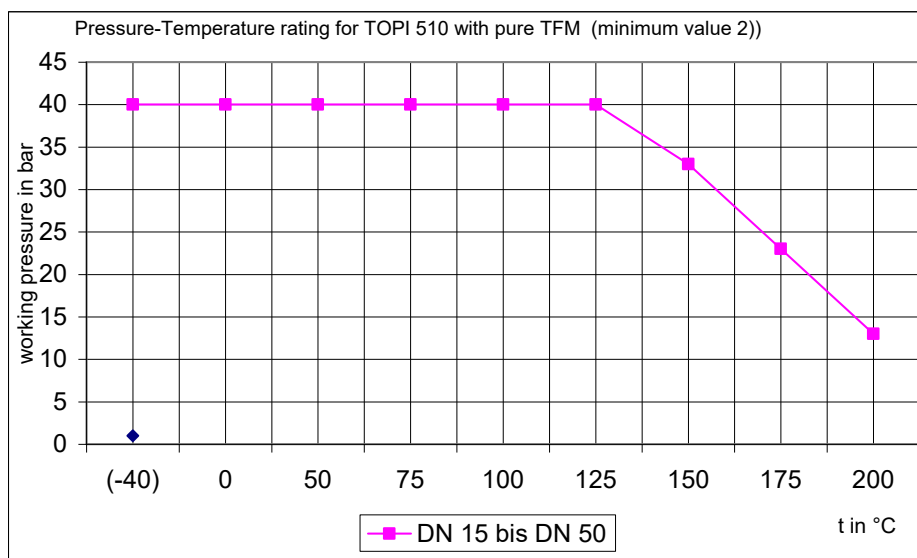
DN	d_L	l	l_1	w	D	k	z	d_2	$d_4 \times f$	h	h_1	h_2	h_3	h_4	ϕd	SW	ISO 5211	weight. kg
15	15	50	25	210	95	65	4	M12	45 x 2	106	55	20	9	2	12	9	F04	1.8
25	25	60	30		115	85			68 x 2	126	75	25	14		18	14	F05	3.4
40	40	80	40	282	150	110		M16	88 x 3	148	108	32,5	17	3	22	17	F07	6.8
50	50	95	47,5		165	125			102 x 3	156	116							9.6

Table 3: Torque and flow characteristics

M _d breakaway in Nm					flow k _v in		M _d max for stem Nm	nom. pressure	connection	flange (acc. DIN EN 1092-1) figure B 1 ¹⁾	Installation instructions
Δp bar	DN				DN	m ³ /h					The installation position of the ball valves is not specified and irrespective of flow direction and irrespective of flow direction.
0	15	25	40	50	15	12	30	PN 40	nach DIN EN 1092-1	R _a max: 12,5 μm R _z max: 50 μm	
10	3	6	14	17	25	60	336				
16	4	10	24	27	40	175	600				
25	5	16	31	36	50	360					
40	7	20	39	55							
40	9	26	50	72							

Table 4: Connection and installation instructions

¹⁾ Other sealing surface shape and flange connections on request.



²⁾ For operating conditions out of range please contact VH-Armaturen GmbH