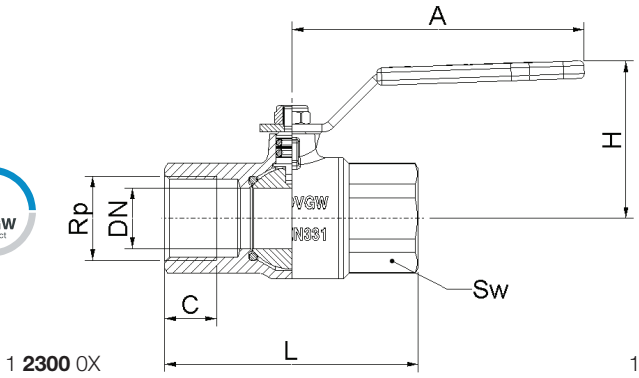
HERZ - gas ball valves DVGW

cerificate DVGW

Datasheet **1 230X XX** , Issue 0516

Dimensions



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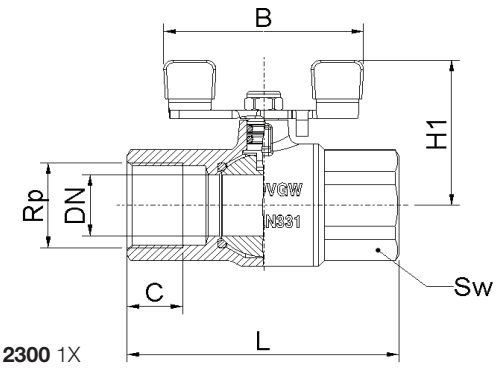

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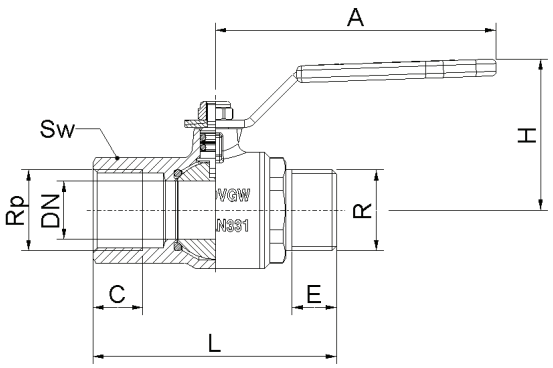

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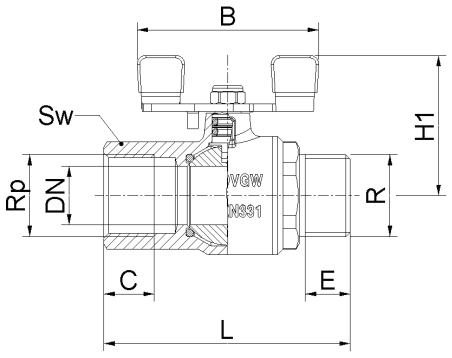

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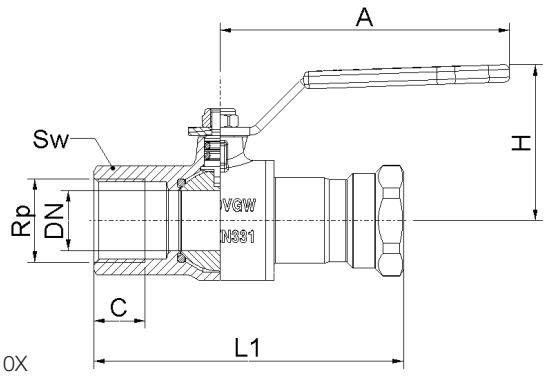

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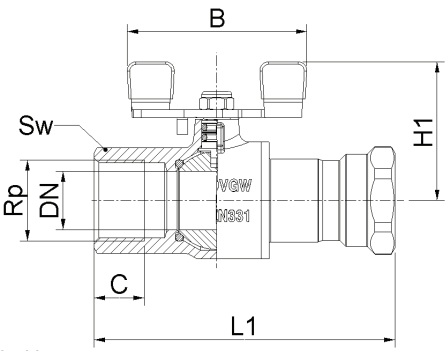

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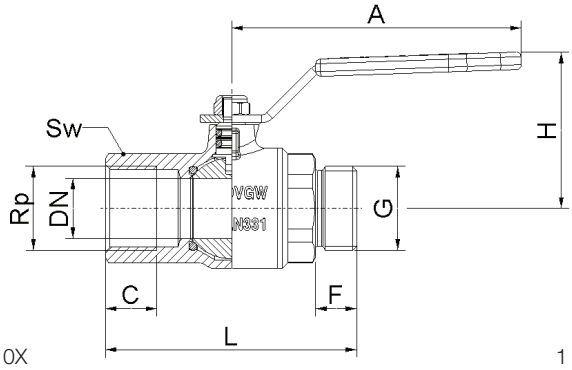

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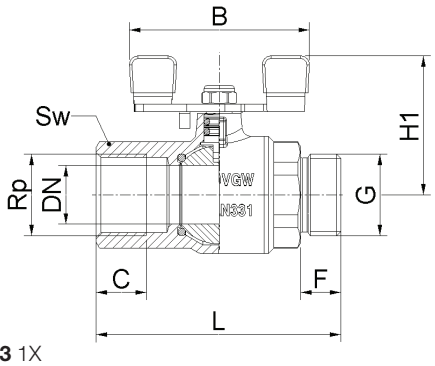


1 **2303** 1X

DN	MOP	PN* [bar]	Rp ISO 7-1	R ISO 7-1	G ISO 228	L [mm]	L1 [mm]	C [mm]	E [mm]	F [mm]	A [mm]	B [mm]	H [mm]	H1 [mm]	Sw
10	5	1	3/8	3/8	3/8	60	/	11,4	10,1	/	71	60	40	39	21
15	5	1	1/2	1/2	1/2	75	82	15	13,2	11	90	60	47	42	26
20	5	1	3/4	3/4	3/4	80	98	16,3	14,5	13	90	60	49	45	32
25	5	1	1	1	1	90	114	19,1	16,8	14	135	85	61	63	41
32	5	1	1-1/4	1-1/4	1-1/4	110	/	21,4	19,1	18	135	85	65	67	50
40	5	1	1-1/2	1-1/2	1-1/2	120	/	21,4	19,1	18	180	/	84	/	55
50	5	1	2	2	2	140	/	25,7	23,4	22	180	/	90	/	70

Weights of ball valves

DN	Weight [kg]							
	1 **2300** 00 (06)	1 **2300** 10 (14)	1 **2301** 01 (06)	1 **2301** 11 (14)	1 **2302** 01 (03)	1 **2302** 11 (13)	1 **2303** 01 (06)	1 **2303** 11 (14)
10	0,259	0,223	/	/	/	/	/	/
15	0,275	0,254	0,259	0,223	0,260	0,239	0,245	0,219
20	0,400	0,379	0,379	0,359	0,400	0,379	0,379	0,349
25	0,730	0,698	0,669	0,638	0,760	0,728	0,698	0,668
32	1,200	1,168	1,158	1,138	/	/	1,158	1,138
40	1,840	/	1,818	/	/	/	1,860	/
50	3,100	/	3,056	/	/	/	3,020	/

Material and construction

Body:	forged brass acc. to EN 12165, CW617N
Ball:	forged brass acc. to EN 12165, hollow, hard chrome plated, CW617N
Spindle:	machined brass acc. to EN 12164, CW614N
Handles	Steel, galvanised Zn, long - short, plasticized, yellow
Ball seals:	NBR 80ShA
Spindle seals:	NBR 70ShA

Operating data

Construction and testing according:	Standard EN 331, DIN 3537-1, DIN 3586
Operating pressure:	for MOP5 gas (EN331), PN1 (HTB 650°C) for 1 **2300** XX,- 1 **2303** XX, PN1 (HTB925°C) FOR 1 **2302** XX
Operating temperature range:	for gas -20°C to 60°C, certified acc. to DIN-DVGW under No. NC-4312BN0382
Thermal cut-off (TAS):	activation temperature of thermal cut-off: 92°C to 100°C
Sealing material:	standard EN 549
Lubricants:	standard EN 377
Medium:	gases acc. to EN 437, gas groups 1., 2., 3. DVGW table G260/I
Connection threads:	acc. to standard ISO 7-1, ISO 228

*HTB 650 °C - fireproof (30 min) for ball valves 1 **2301** XX,1 **2303** XX

*HTB 925 °C - fireproof (60 min) for ball valves 1 **2302** XX

Models of gas ball valves

Group	DN	Article	Connectors
K950	10 15 20 25 32 40 50	1 **2300** 00 1 **2300** 01 1 **2300** 02 1 **2300** 03 1 **2300** 04 1 **2300** 05 1 **2300** 06	Internal Rp/internal Rp thread, lever handle steel, yellow
K950M	10 15 20 25 32	1 **2300** 10 1 **2300** 11 1 **2300** 12 1 **2300** 13 1 **2300** 14	Internal Rp/internal Rp thread, T-handle steel, yellow HTB 650 °C - fireproof 30 minutes
K960	15 20 25 32 40 50	1 **2301** 01 1 **2301** 02 1 **2301** 03 1 **2301** 04 1 **2301** 05 1 **2301** 06	Internal Rp/external R thread, lever handle steel, yellow HTB 650 °C - fireproof 30 minutes
K960M	15 20 25 32	1 **2301** 11 1 **2301** 12 1 **2301** 13 1 **2301** 14	Internal Rp/external R thread,T-handle steel, yellow HTB 650 °C - fireproof 30 minutes
K970	15 20 25	1 **2302** 01 1 **2302** 02 1 **2302** 03	Internal Rp/internal Rp thread (TAS), lever handle steel, yellow HTB 925 °C - fireproof 60 minutes
K970M	15 20 25	1 **2302** 11 1 **2302** 12 1 **2302** 13	Internal Rp/internal Rp thread (TAS), lever steel, yellow HTB 925 °C - fireproof 60 minutes
K980	15 20 25 32 40 50	1 **2303** 01 1 **2303** 02 1 **2303** 03 1 **2303** 04 1 **2303** 05 1 **2303** 06	Internal Rp/external G thread, lever handle steel, yellow HTB 650 °C - fireproof 30 minutes

Field of application

HERZ gas ball valves are used as shut-off valves in gas installations in front of final gas consumers (gas heaters, boilers, stoves) in compliance with DVGW-TRGI 2008. Ball valves are suitable for gas groups 1, 2, 3, according to EN 437. The ball valves are used as a protective element in gas installations in two basic positions: open - closed, and not in intermediate position. In case of a fire the valve has to be closed. At increased temperature the seal shall burn up. In this case, the seal is the connection between the ball and the fire tooth.

Assembly instruction

The threads of the pipe have to be coated with a suitable sealing material (spinning material, Teflon ribbon, sealing paste). Ball valve is mounted in front of thermal non-resistant elements (gas meter, rubber hose, furnace, heater, stove). When assembling use suitable assembly tool, that adapts to valve end connections (Sw).

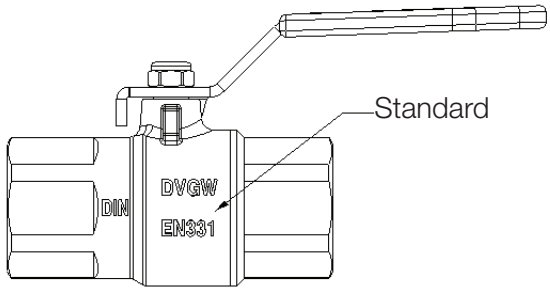
Maintenance instruction

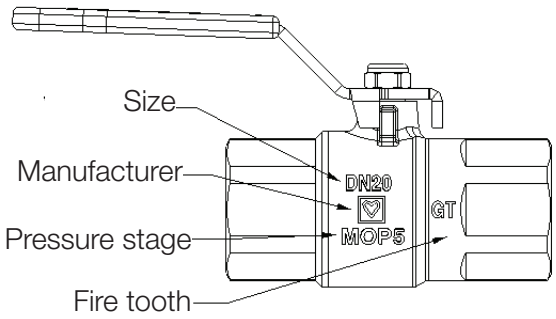
HERZ gas ball valve does not require any special maintenance. It is recommended to close and open the ball valve at least twice a year.

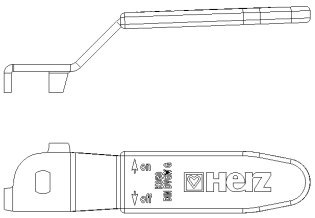
Disposal instruction

The disposal of HERZ gas ball valves must not endanger the health or the enviroment. National legal regulations for proper disposal of the HERZ gas ball valves have to be followed.

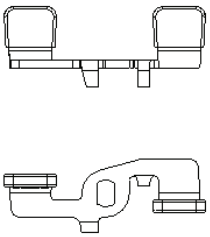
Labels on ball valve



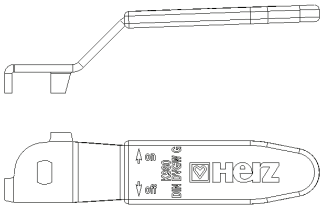




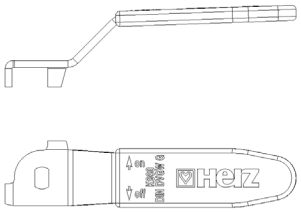
1 **2300** 0X
lever handle, steel, yellow



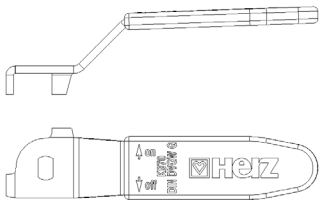
1 **2300** 1X ,1 **2301** 1X, 1 **2302** 1X,
1 **2303** 1X - T-handle, yellow



1 **2303** 0X
lever handle, steel, yellow



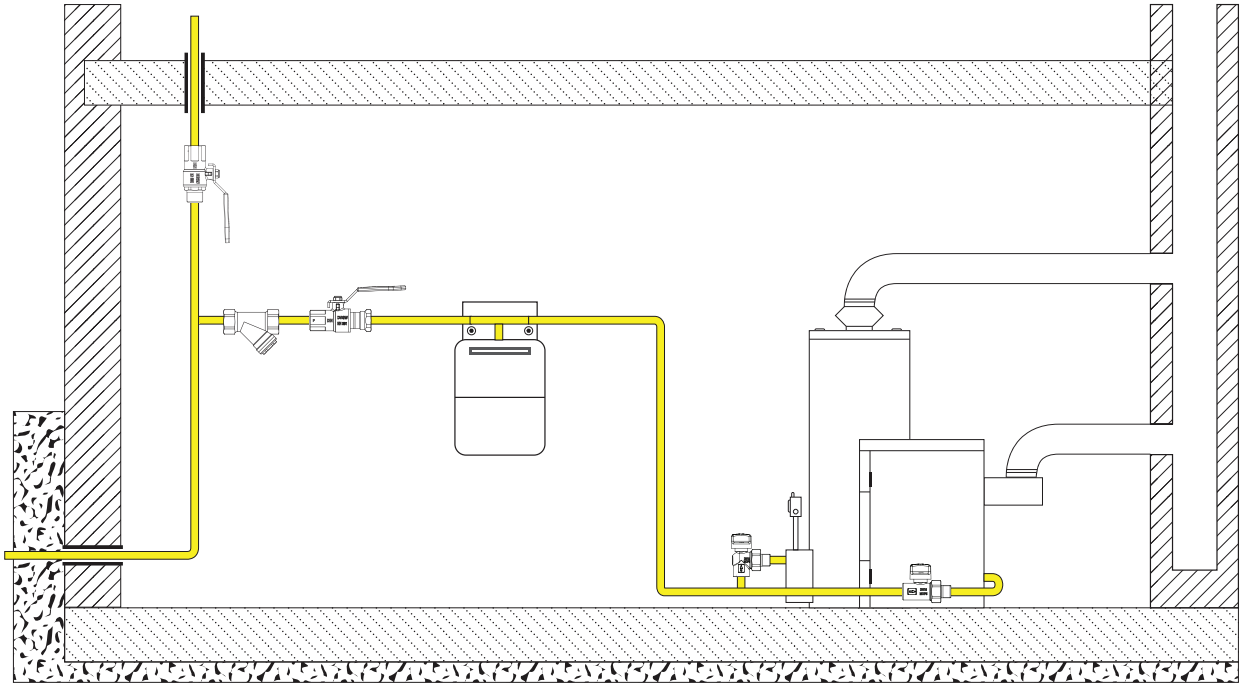
1 **2301** 0X
lever handle, steel, yellow



1 **2302** 0X
lever handle, steel, yellow

Example of system with HERZ gas ball valves

Local standards and regulations may state other schemes which have to be followed.



Diagrams of HERZ gas ball valves

Diagram pressure-temperature

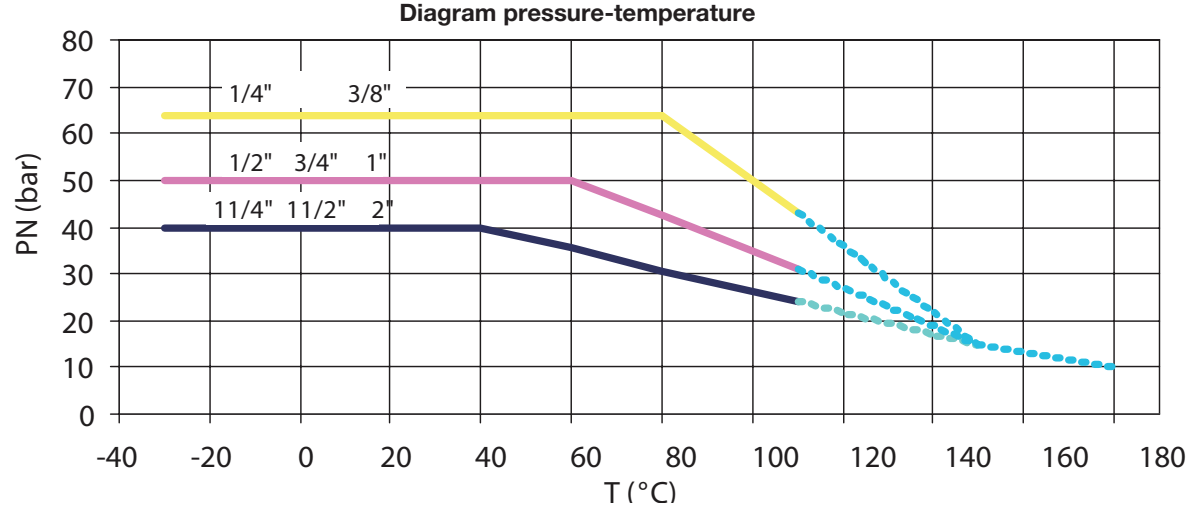


Diagram flow-dimension

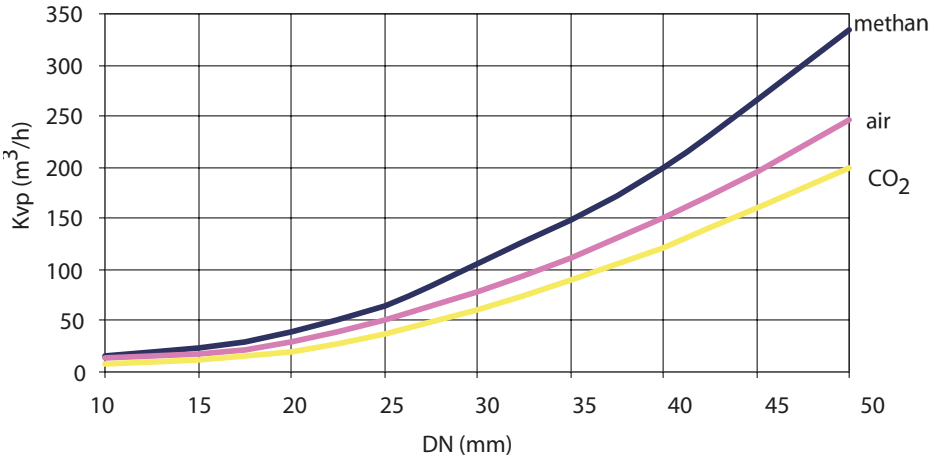
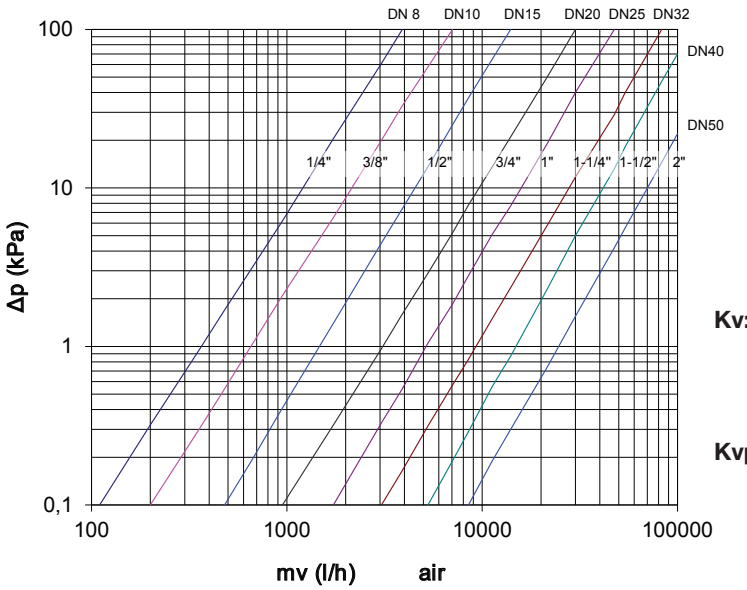


Diagram pressure-flow



DN	Kv	Kvp
8	3,9	3,6
10	7,1	6,6
15	17	15,8
20	34	31,5
25	55	51
32	102	95
40	165	153
50	270	250

Kv: Outflow characteristic (m3/h) - is the flow of water at temperature 15.5°C, a pressure drop of 1 bar (100 kPa) and a fully open valve.

Kvp: Outflow characteristic (m3 / h) - is the flow of air with density of 1,16 kg/m3 at temperature 15.5°C, a pressure drop of 1 mbar (0,1 kPa) and a fully open valve.