



# s.84 EN331 M/F

1/4" - 4"  
EN 10226-1

**HIGH TEMPERATURE RESISTANCE**  
Now approved for **HTB** use (Hochtemperaturbeständigkeit)  
Class B 0,1 (0,1 bar @650°C for at least 30 minutes).



## Quality

- 24h 100% seal test guaranteed
- Dual sealing system allows valve to be operated in either direction making installation easier
- No metal-to-metal moving parts
- No maintenance ever required
- Handle clearly shows ball position
- Silicone-free lubricant on all seals
- Handle stops on body to avoid stresses at stem
- Chrome plated brass ball for longer life with rinse hole

## Body

- Hot forged sand blasted external nickel plated brass body and cap sealed with Loctite® or equivalent thread sealant
- Finest brass according to EN 12165 and EN 12164 specifications

## Stem

- Blowout-proof nickel plated brass stem
- Maintenance-free, double FPM O-rings at the stem for maximum safety

## Sealing

- Pure PTFE self-lubricating seats with flexible-lip design

## Threads

- EN 10226-1, ISO 228 parallel male by female threads

## Upon request

- Stainless steel ball (1.4401 / AISI 316)
- Glass filled PTFE seals
- Custom design

## PED directive

- Assessment according to Pressure Equipment Directive 2014/68/UE module B+D by ICIM (0425)

## Flow

- Full port to DIN 3357 for maximum flow

## Handle

- Geomet® carbon steel handle with thick PVC dip coating. Handle coating offers both thermal and electrical protection
- **WARNING:** do not exceed reasonable temperature and/or electrical load
- Handle removable with valve in service

## Working pressure & temperature

- 40 bar (600 PSI) up to 2", 30 bar (450 PSI) over 2" non-shock cold working pressure
- -40°C to +170°C (-40°F to +350°F)
- For use with dangerous fluids temperature rating is -20°C +60°C and pressure rating is 5 bar / **HTB** Class B 0,1
- AS4617 Limitation for GAS: 2100 Kpa up to 2" and 1500 Kpa from 2 1/2" to 4" rated working pressure and 0°C / +60°C temperature

- **WARNING:** freezing of the fluid in the installation may severely damage the valve

## Options up to 2" size

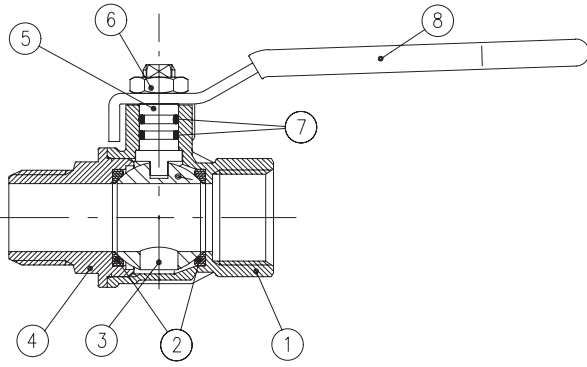
- Stem extension
- T-handle
- Stainless steel handle (1.4016 / AISI 430)
- Taper female by parallel female threads up to 4"
- Oval lockable handle up to 2", round over 2"
- Patented locking device for valves up to 4"
- Stubby handle
- **RuB** memory stop designed to be installed with our stubby handle

## Approved by or in compliance with

- The Australian Gas Association (Australia)
- SVGW (Switzerland)
- Factory Mutual (United States)
- BSI Group (United Kingdom)
- RoHS Compliant (EU)
- GOST-R (Russia)
- DIN-DVGW (Germany) – MOP 5 B 0,1
- EAC – Declaration of conformity (Russia, Kazakhstan, Belarus)
- ARGB-KVBG (Belgium) – MOP 5 bar for outside building gas installation

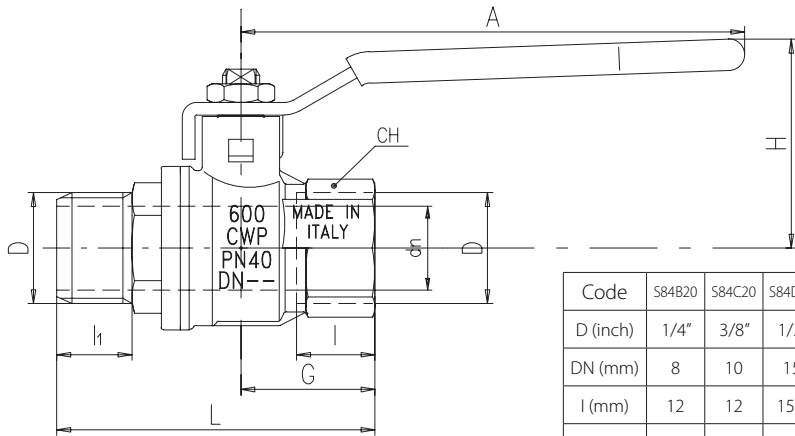
**NOTE:** approvals apply to specific configurations/sizes only.





1 1/4" - 2" hollow ball

Part description	Q.ty	Material
1 Nickel plated body (external nickel plated, unplated inside up to 2")	1	CW617N
2 Seat	2	PTFE
3 Chrome plated ball with rinse hole (read rinse hole on sizes from 3/4" up to 2")	1	CW617N
4 Nickel plated end-cap (external nickel plated, unplated inside up to 2")	1	CW617N
5 Nickel plated stem O-ring design	1	CW617N
6 Geomet® nut	1	CB4FF (EN10263-2)
7 O-Ring	2	FPM
8 Yellow PVC coated Geomet® steel handle	1	DD11 (EN10111)



DN shows the nominal flow diameter. Actual flow diameter complies with full port DIN 3357 part 4. Stem configuration of valves over 2" is slightly different.

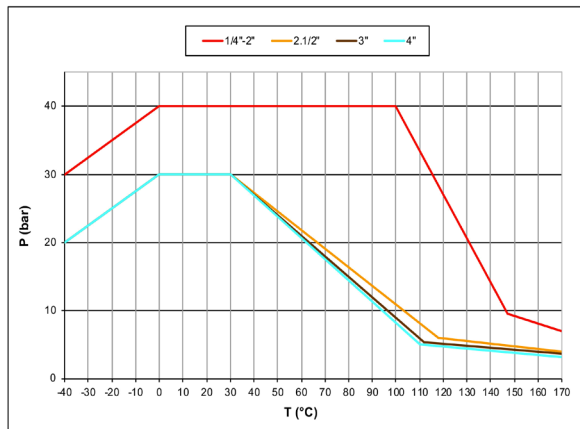
Ball valves are marked CE on handle from 1 1/4" to 2", on body over 2" as follow:

CE 0425 cat IIIB+D PS: 5 GAS TS1: -20°C TS2: +60°C

Compliant to  
**CE** 2014/68/UE product  
 Equipment category III Module B+D

Code	S84B20	S84C20	S84D20	S84E20	S84F20	S84G20	S84H20	S84I20	S84L20	S84M20	S84N20
D (inch)	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
DN (mm)	8	10	15	20	25	32	40	50	65	80	100
l (mm)	12	12	15.5	17	21	23	23	26.5	32	35	41.5
l1 (mm)	13.5	13.5	16.5	18	22	24	24	27.5	37	39.5	44
L (mm)	56.5	56.5	70	76.5	92.5	106	113	133	180.5	204.5	238
G (mm)	22.5	22.5	29.5	32	40.5	46.5	51	60.5	78	88.5	108
A (mm)	82	82	100	120	120	158	158	158	255	255	255
H (mm)	38	38	43	50	54	73	79	86	132	140	154
CH (mm)	17	20	25	31	40	49	54	68.5	85	99	125
Kv (m3/h)	3.9	8.2	28	36	62	79	124	178	516	776	1130

### Pressure-temperature chart



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### Pressure drop chart

