



BRONZE PRESSURE REDUCING VALVE 682

Model/Ref: 246823



*Partnership.
Without Limits.*

BRONZE PRESSURE REDUCING VALVE 682
CHARACTERISTICS

Bronze pressure reducing valves are dedicated to the pressure relief of fluids such as water, air, unloaded liquids and compatible gases.

They are WRAS approved products.

Entirely made of metal. Body and spring bonnet are made of red brass. The pressure can be adjusted via a non-rising valve stem.

The reduced pressure can be checked thanks to the pressure gauge. These devices only work following the direction of the arrow on the body. With their built-in strainer, they are suitable for non-sticking, clean fluids with no particles.


AVAILABLE ITEMS

DN20 to DN80
 Raised flanged PN16/40
 Manometer ø50

LIMITS OF USE

Max. allowable pressure (PS)	25 bar
Allowable temperature (TS)	-10°C / +95 °C
Downstream pressure	1 – 8bar

CONSTRUCTION

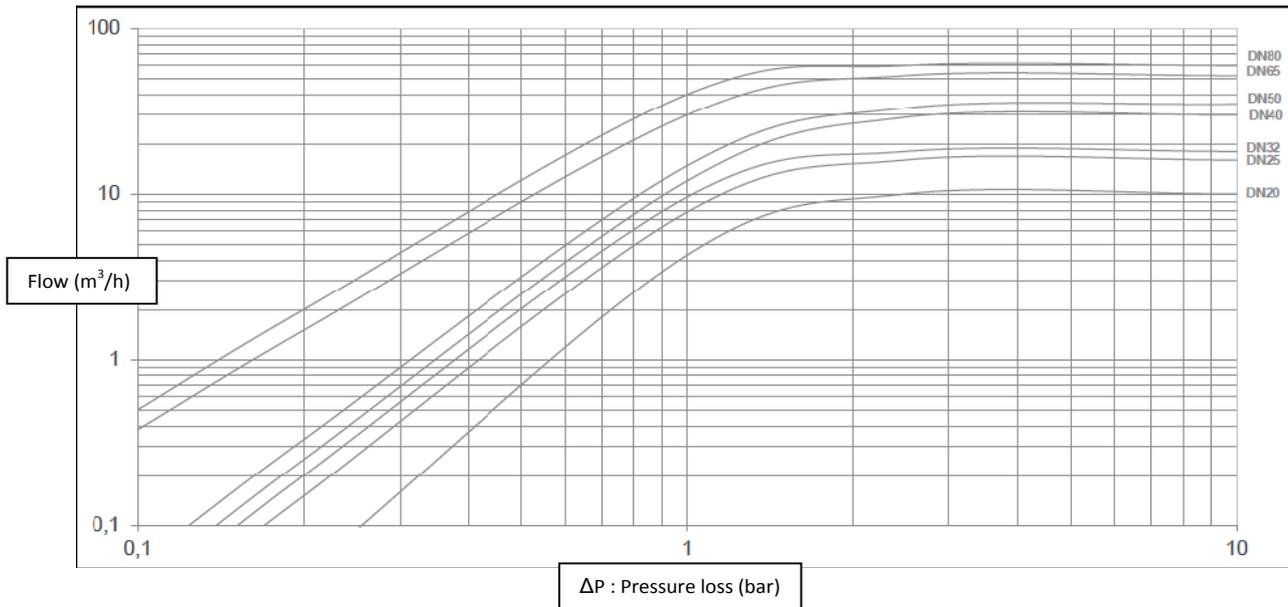
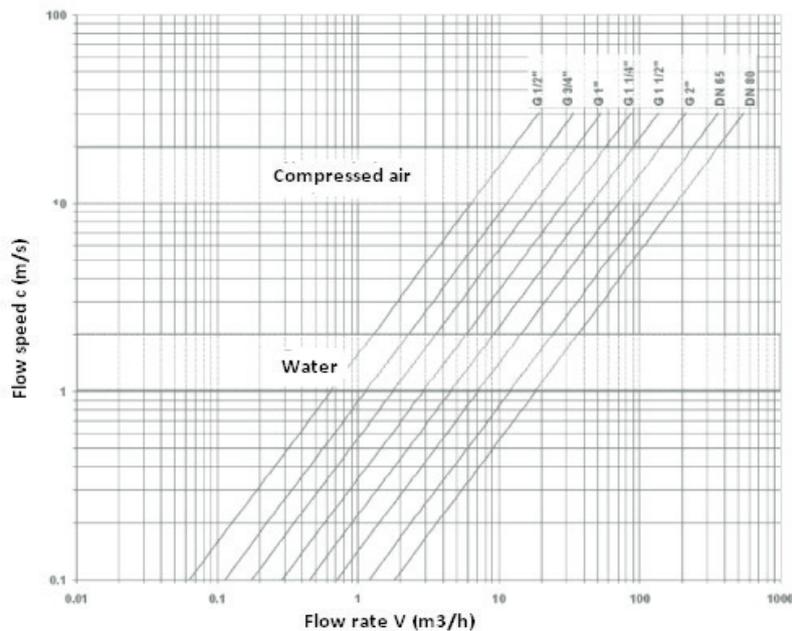
Item	Material
Body	Bronze CC499K
Cover	Bronze CC499K
Internal parts	Bronze CC499K Brass CW614N Stainless steel 1.4571
Pressure spring	Spring steel 1.1200
Strainer	Stainless steel 304
Diaphragm	EPDM


STANDARDS AND CERTIFICATIONS

	Standard	Notified Body		Standard
97/23/EC Pressure Equipment Directive	DN15 to DN25: excluded		Drinkable water use	ACSDVGWWRAS
	DN32 to DN80: category II	TÜV 0036		
Pressure reducing valve	EN 1567		Flanges	EN 1092-1

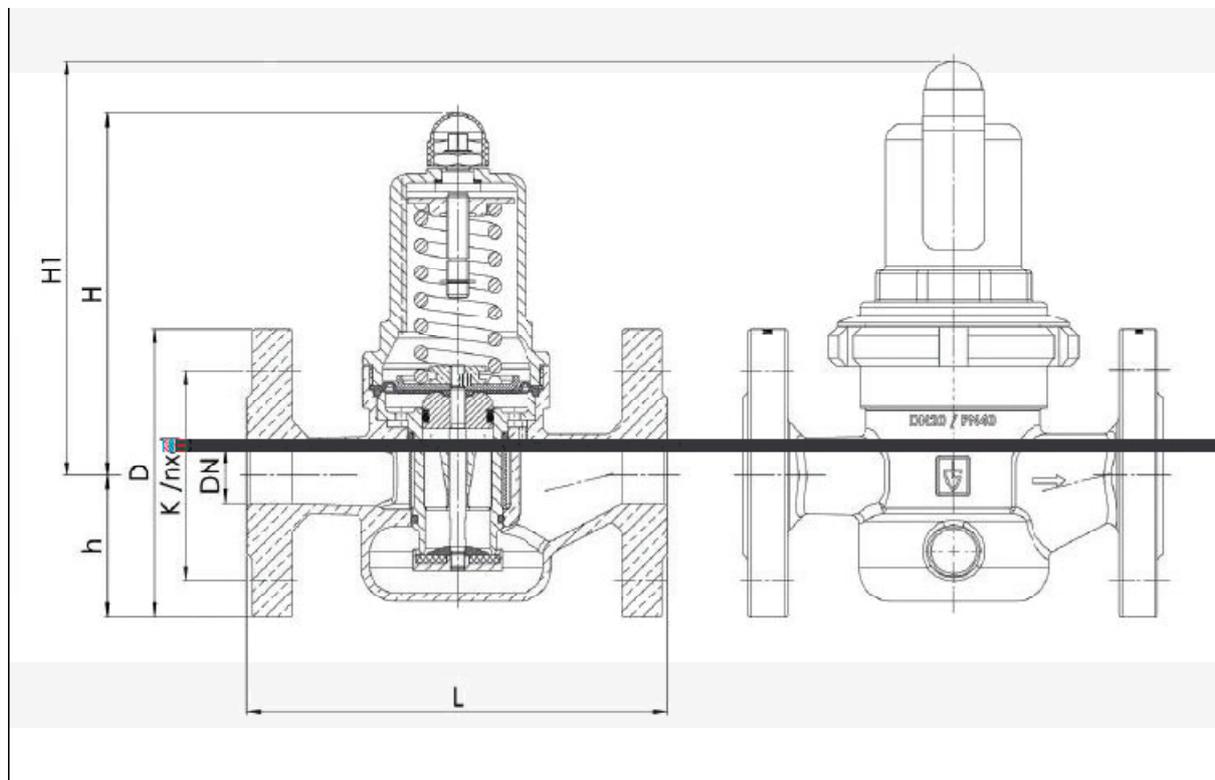
BRONZE PRESSURE REDUCING VALVE 682
COEFFICIENT AND FLOW RATE

DN	20	25	32	40	50	65	80
Kv (m ³ /h)	4.5 - 5	6.2 - 7.8	8.7 - 9.6	12 - 14	14.5 - 19	30 - 47	44 - 60
Maximum flow (m ³ /h)	10	16	18	30	35	60	68

FLOW AND PRESSURE LOSS CHART (FOR WATER)

DETERMINATION OF SIZE FOR AIR AND WATER


For water or similar liquids, do not exceed a 2 m/s flow speed.

For compressed air, choose a flow speed between 10 and 20 m/s.

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DIMENSIONS (mm) AND WEIGHT (kg)


DN	L	D	Flanges	K / n x d	H	H1*	h	Weight (kg)
20	150	105	PN16/40	75/4xM12	130	150	50	4,2
25	160	115	PN16/40	85 /4xM12	130	150	55	4,7
32	180	140	PN16/40	100/4xM16	130	150	68	5,9
40	200	150	PN16/40	110/4xM16	165	185	73	8,6
50	230	165	PN16/40	125/4xM16	185	185	80	10,5
65	290	185	PN16	145/4xM16	185	235	89	20
80	310	200	PN16/40	160/8xM16	200	235	96	22

*low pressure range

Pressure gauge connection

BSP 1/4"

Inner screen: filtration threshold 0.75 mm

OPTIONS

FKM diaphragm

PN40 version

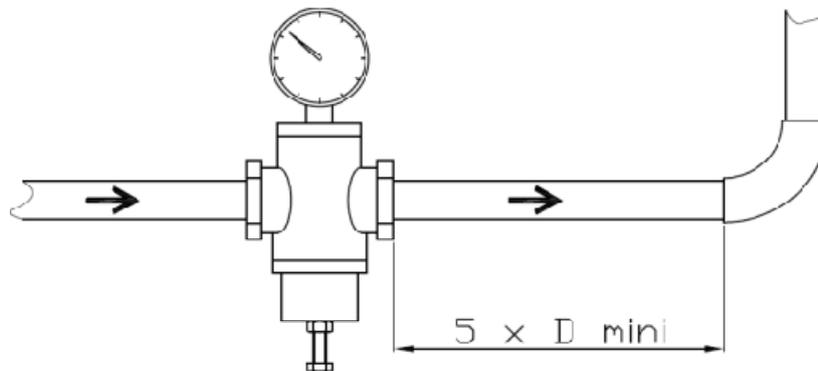
BRONZE PRESSURE REDUCING VALVE 682**Mounting**

Mounting position: the 682 pressure reducing valve can be mounted in all positions.

Flow direction: please follow the direction of the arrow marked on the body.

Reductions and divergent: if the 682 valve diameter is smaller than the piping one, please install a reduced connection upstream. For gas use, it is necessary to provide the valve downstream with a pipe one diameter bigger than the upstream one and to connect it with a reduced connection. The expanded gas needs a larger flow cross-section downstream than upstream.

Tranquillising length: To ensure good downstream pressure stability and reduce turbulences at the 682 valve outlet, please ensure a minimum distance before any other device or elbow of at least $5 \times DN$ length (even up to $10 \times DN$ if possible). In case of a double release, please anticipate the same spacing between both pressure reducing valves.



Upstream shut-off: Please provide for a isolating valve upstream the 682 valve, because it is not necessarily watertight at zero flow condition and do not constitute a shut-off device.