

SAYTAR-70

Piston-operated pressure reduction for water service.



PN16

PRESSURE CLASS

DN65-100

SIZE RANGE

0-80°C

WORKING TEMPERATURE

Flanged pressure-reducing valve for water service. Inlet pressure: 11 bar. Outlet pressure: 6 bar.

01 / DESIGN

Controlled water pressure

A piston-operated pressure reducing valve with a WCB cast-steel body, designed for pressure control in flanged water piping systems.

Piston-operated control

Pressure reduction for water service.

Flanged construction

EN 1092-1 PN16 connections.

Stainless-steel trim

2Cr13 stem, pistons and cylinder liner.

02 / TECHNICAL PROFILE

Specification at a glance

Working medium

Water

Inlet / outlet pressure

11 bar / 6 bar

Body material

WCB cast steel

Design & manufacture

EN 1074-1 / EN 1074-5

Shell / seal test

24 bar / 17.6 bar

Test standard

EN 12266-1

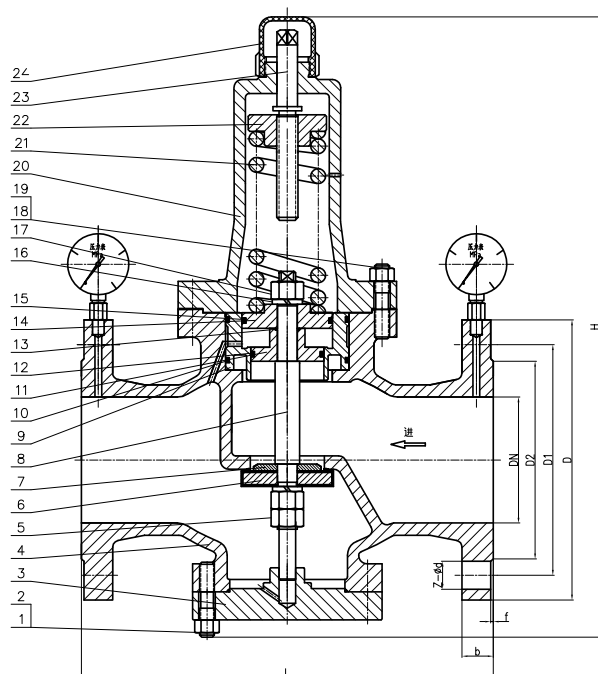
SAYTAR-70

CONSTRUCTION
& MATERIALS



03 / SECTIONAL ASSEMBLY

Inside SAYTAR-70



Sectional assembly and numbered component schedule.

WCB BODY / 2Cr13 TRIM

Ref.	Component	Material
1	Stud	35
2	Nut	25
3	Lower cover	WCB
4	Body	WCB
5	Nut	25
6	Disc	WCB coated NBR
7	Pressure plate	20
8	Stem	2Cr13
9	Cylinder liner	2Cr13
10	O-ring	NBR
11	Small piston	2Cr13
12	O-ring	NBR
13	O-ring	NBR
14	Large piston	2Cr13
15	O-ring	NBR
16	Spring washer	65Mn
17	Nut	25
18	Stud	35
19	Nut	25
20	Upper cover	WCB
21	Adjusting spring	60Si2Mn
22	Adjusting washer	20
23	Adjusting screw	35
24	Protection cap	Plastic

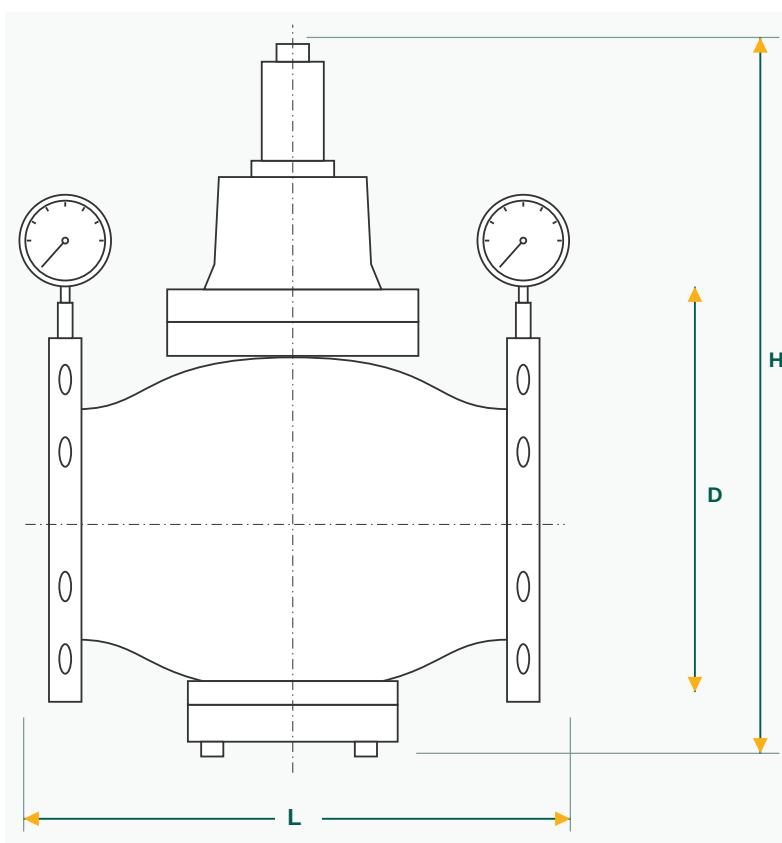
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DIMENSIONS
& SIZE RANGE



04 / DIMENSIONAL REFERENCE

Flanged installation



DIMENSIONS IN mm

DN	L	H	H1	D	k	d	C	Z-d1
65	280	325	130	180	145	120	18	4 × Ø18
80	310	470	160	195	160	135	20	8 × Ø18
100	350	385	170	215	180	155	20	8 × Ø18

L = face-to-face | H = overall height | H1 = centreline to base | D = flange OD
k = PCD | d = bore | C = thickness

For the complete datasheet and technical information,
please visit bariigroup.com.



05 / PRESSURE CONTROL

Operating profile

INLET PRESSURE

11 bar

OUTLET PRESSURE

6 bar

06 / TEST PRESSURES

Pressure verification

Parameter	bar	MPa
Nominal pressure	16	1.6
Shell test	24	2.4
Seal test	17.6	1.76

07 / QUALITY CONTROL

Factory preparation

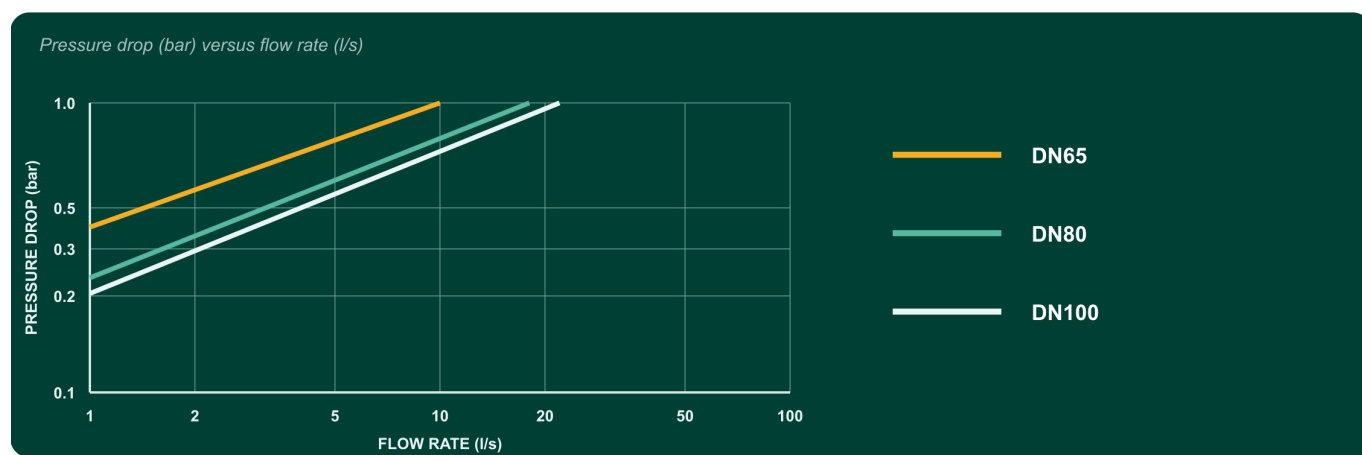
Valve pressure-tested before release to EN 12266-1. Internal and external surfaces are cleaned after testing, and both flanged ends are protected with blind covers.

WATER SERVICE / 0-80°C / EN 1092-1 PN16



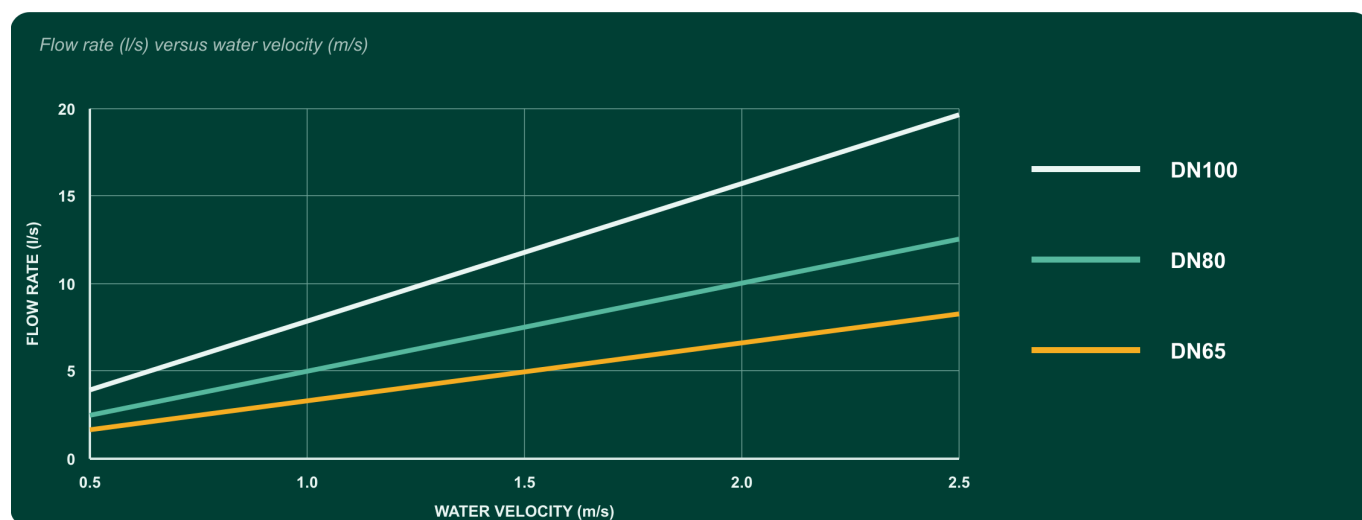
08 / PRESSURE LOSS

Pressure drop versus flow



09 / FLOW CAPACITY

Flow versus water velocity



AT 2.5 m/s: DN65 8.3 l/s | DN80 12.6 l/s | DN100 19.6 l/s