

PRESSURE REDUCING VALVE DIRECT ACTING PRV 25/2 S – Forged steel body

DESCRIPTION

The ADCA PRV25/2S series direct acting pressure reducing valves are designed for use on steam, compressed air and other gases.

They are suitable for reducing steam pressure at the point of use on laundry machines, dyeing, food industries, sterilizers, etc.

Connections are female screwed or flanged.

MAIN FEATURES

Compact design.

Bellows specially designed for high durability.

Built-in strainer.

OPTIONS: Regulating screw with top cap.

USE: Saturated steam, compressed air and other gases compatible with the construction.

AVAILABLE MODELS:

- ➔ PRV25/2S – metal to metal seating
- ➔ PRV25/2SG – soft valve
- ➔ PRW25/2S – soft valve balanced

RECOMMENDED APPLICATIONS :

PRV25/2S – steam and compressed air
PRV25/2SG – steam and compressed air where tight off is required
PRW25/2S – water, compressed air

SIZES: 1/2", 3/4", 1"; DN15, DN20 and DN25.

CONNECTIONS: Female screwed ISO7/1Rp(BS 21) .
Flanged EN 1092-1 PN40 or ANSI.

INSTALLATION: Horizontal installation.
An "Y" strainer should be provided upstream the valve.
See IMI, installation and maintenance instructions.



CE MARKING (PED - European Directive 97/23/EC)	
PN 25	Category
DN 15 to 25	SEP - art. 3, paragraph3

LIMITING CONDITIONS

	PRV25/2S	PRV25/2SG	PRW25/2S
Body design conditions	PN25	PN25	PN25
Max.upstream pressure	17 bar	17 bar	14 bar
Max.downstream pressure	8,6 bar	8,6 bar	8,6 bar
Min.downstream pressure	0,14 bar	0,14 bar	0,35 bar
Max.design temperature	210°C	180°C	75°C
Max.cold hydraulic test	38 bar	38 bar	38 bar
Max.reducing ratio	10:1	10:1	10:1

CAPACITIES

(See selection table)

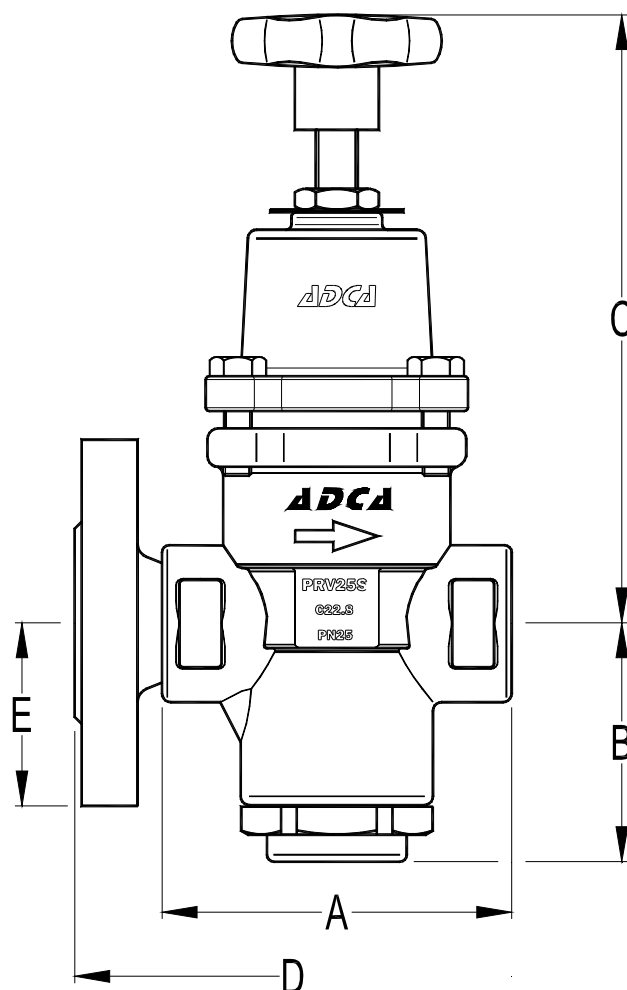
Valve Size	15	20	25
KVs	1,7	2,6	3,1

PRESSURE RANGES

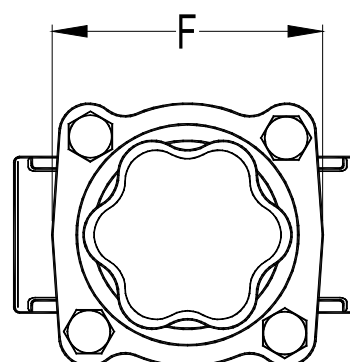
Spring colour	Blue *	Yellow **	Green	Red
Red.Press. bar	0,35 - 1,7	0,14 - 1,7	1,4 - 4,0	3,5 - 8,6

*Applicable only on the PRW ; ** Appl.only on the PRV

Where control spring ranges overlap,always use the lower range.



DIMENSIONS (mm)-Screwed						EN1092-1 Flanges		
SIZE DN	A	B	C	F	WGT. Kgs	D	E	WGT. Kgs
1/2"	90	65	175	74	2,7	150	47,5	4,2
3/4"	90	65	175	74	2,7	150	52,5	4,8
1"	100	65	175	74	3	160	57,5	5,6



MATERIALS		
POS.	DESIGNATION	MATERIAL
1	VALVE BODY	P250GH / 1.0460 or A216WCB / 1.0619
2	COVER	GJS400-15 / 0.7040
3	SEAT	AISI 316 / 1.4401
4	-	-
5	*VALVE	HARDENED ST. STEEL
5.1	*O-RING	NBR
5.2	*VALVE HEAD	NBR
5.3	*VALVE HEAD	PTFE/GRAPHITE
6	*VALVE RETURN SPRING	AISI 302 / 1.4300
7	*STRAINER SCREEN	AISI 304 / 1.4301
8	PUSHROD	AISI 316 / 1.4401
9	BOTTOM CAP	A105 / 1.0432 or CF8M / 1.4408
10	*CAP GASKET	ST.ST./ GRAPHITE
11	COVER BOLTS	STEEL 8.8
12	-	-
12.1	*GUIDE BUSH	PTFE/GRAPHITE
13	*STOP RING	AISI 304 / 1.4301
14	*BELLOWS	AISI 316 TI/ 1.4571
15	*BELLOWS GASKET	ST.ST./ GRAPHITE
16	*ADJUSTMENT SPRING	STEEL
17	TOP SPRING PLATE	BRASS
18	ADJUSTMENT SCREW	AISI 304 / 1.4301
19	LOCKNUT	AISI 304 / 1.4301
20	HANDWHEEL	PLASTIC
21	SPRING IDENT. PLATE	ALUMINIUM

* Available spare parts.

