

PRESSURE REDUCING VALVE DIRECT ACTING PRV25I – Stainless steel (CF8M)

DESCRIPTION

The ADCA PRV25I 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:
PRV25I – metal to metal seating
PRV25IG – soft valve
PRW25I – soft valve balanced

RECOMMENDED APPLICATIONS :
PRV25I – steam and compressed air
PRV25IG – steam and compressed air where tight off is required
PRW25I – water, compressed air

SIZES: ½", ¾", 1"; DN15, DN 20 and DN 25.

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

	PRV25I	PRV25IG	PRW25I
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)

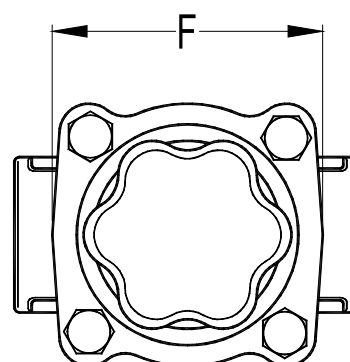
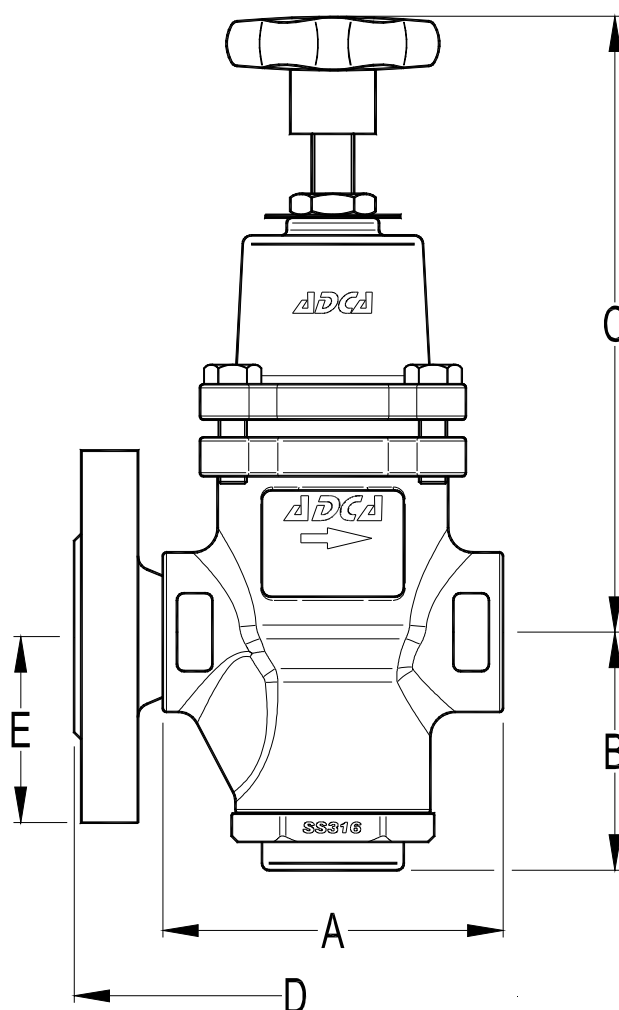
Valve Size	15	20	25
KVs	1,7	2,6	3,1

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

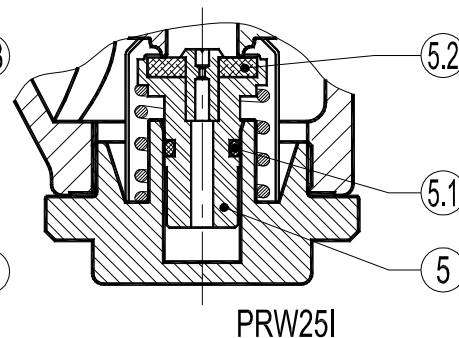
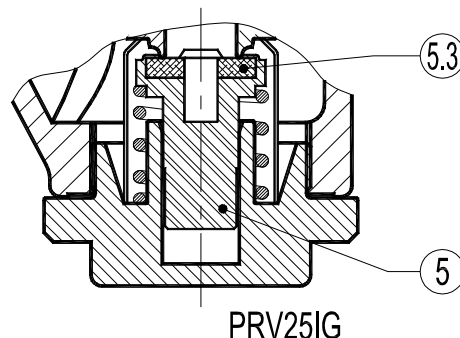
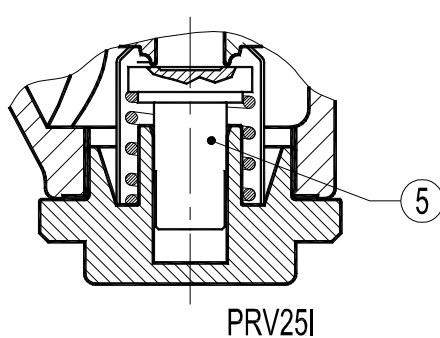
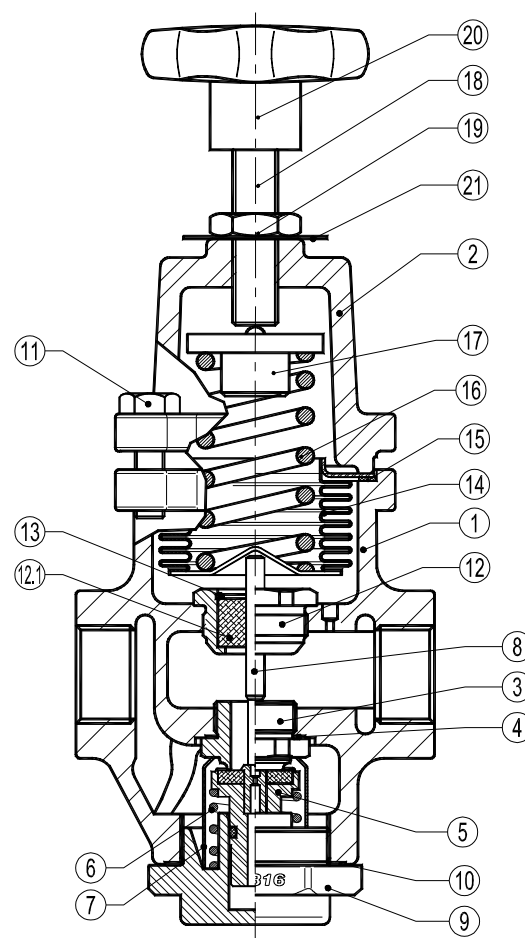
Where control spring ranges overlap,always use the lower range.


DIMENSIONS (mm)-Screwed
EN1092-1 Flanges

SIZE DN	A	B	C	F	WGT. Kgs	D	E	WGT. Kgs
1/2"	96	68,5	175	74	3	150	47,5	4,4
3/4"	96	68,5	175	74	3	150	52,5	5
1"	96	68,5	175	74	2,9	160	57,5	5,5

MATERIALS		
POS.	DESIGNATION	MATERIAL
1	VALVE BODY	CF8M / 1.4408
2	COVER	CF8M / 1.4408
3	*SEAT	AISI 316 / 1.4401
4	*GASKET	COPPER
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	CF8M / 1.4408
10	*CAP GASKET	ST. ST. / GRAPHITE
11	COVER BOLTS	STAINLESS STEEL
12	GUIDE BUSH HOUSING	AISI 316 / 1.4401
12.1	*GUIDE BUSH	PTFE/GRAPHITE
13	*STOP RING	AISI 304 / 1.4301
14	*BELLOWS	AISI 316Ti / 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.



STEAM CAPACITY TABLE (Kg/h)					COMPRESSED AIR CAPACITY TABLE (Nm ³ /h-0°C-1,013bar)					WATER CAPACITY TABLE (m ³ /h)			
INLET bar	OUTLET bar	SAT. STEAM			INLET bar	OUTLET bar	COMPRESSED AIR			D.P. bar	WATER		
		DN15	DN20	DN25			DN15	DN20	DN25		DN15	DN20	DN25
2	0,2	33	53	64	2	0,2	45	72	86	1,5	2,1	3,18	3,8
	1,2	57	87	104		1,2	77	117	140		2	2,4	3,67
	1,6	38	59	71		1,6	51	80	96		3	2,95	4,5
3	0,3	45	70	83	3	0,3	61	95	112	4	3,4	5,2	6,2
	1,2	76	116	138		1,2	103	157	186		5	3,8	5,8
	2,2	61	93	111		2,2	82	126	150		6	4,16	6,36
4	2,6	46	70	83	4	2,6	62	95	112	8	4,8	7,35	8,75
	0,4	56	87	104		0,4	76	117	140		12	5,8	9
	1	66	102	121		1	89	138	163				
5	2,5	95	145	173	5	2,5	128	196	234				
	3,5	57	87	104		3,5	77	117	140				
	0,5	68	105	125		0,5	92	142	169				
6	2	91	139	166	6	2	123	188	224				
	3	114	174	208		3	154	235	281				
	4	85	130	155		4	115	176	209				
7	0,6	79	122	145	7	0,6	107	165	196				
	2	106	162	194		2	143	219	262				
	3	133	203	243		3	180	274	328				
8	4	120	184	219	8	4	162	248	296				
	0,7	91	139	167		0,7	123	188	225				
	2	121	185	222		2	163	250	300				
9	3,5	152	232	277	9	3,5	205	313	374				
	5	132	201	240		5	178	271	324				
	0,8	102	157	187		0,8	138	212	252				
10	2	137	210	250	10	2	185	284	338				
	3,5	171	262	312		3,5	231	354	421				
	5	161	247	294		5	217	333	397				
11	6	142	217	259	11	6	192	293	350				
	0,9	114	174	208		0,9	154	235	281				
	2,5	133	203	242		2,5	180	274	327				
12	4	152	233	277	12	4	205	315	374				
	5	190	291	347		5	257	393	468				
	7	152	232	277		7	205	313	374				
13	1	125	192	228	13	1	169	259	308				
	3	146	224	266		3	197	302	359				
	4	167	256	305		4	225	346	412				
14	6	209	320	381	14	6	282	432	514				
	8	161	247	294		8	217	333	397				
	1,1	136	210	249		1,1	184	284	336				
15	3	182	280	333	15	3	246	378	450				
	6	228	350	416		6	308	473	562				
	8	198	302	360		8	267	408	486				
16	8,6	182	279	331	16	8,6	246	377	447				
	1,2	148	227	270		1,2	200	306	365				
	3	197	302	360		3	266	408	486				
17	6	247	378	451	17	6	333	510	609				
	8	228	349	416		8	308	471	562				
	8,6	217	332	396		8,6	293	448	535				
18	1,3	159	244	291	18	1,3	215	329	393				
	4	186	284	340		4	251	383	459				
	6	212	325	388		6	286	439	524				
19	7	266	407	486	19	7	359	549	656				
	8,6	246	378	451		8,6	332	510	609				
	1,5	182	259	321		1,5	246	350	433				
20	4	212	302	374	20	4	286	408	505				
	6	243	345	427		6	328	466	576				
	8	304	433	536		8	410	585	724				
21	8,6	298	426	512	21	8,6	402	575	691				
	1,7	205	279	333		1,7	277	377	450				
	4	238	325	386		4	321	439	521				
22	6	273	372	441	22	6	369	502	595				
	8	342	465	555		8	462	628	749				
	8,6	339	449	541		8,6	458	606	730				