



INGENIEROS ASOCIADOS DE CONTROL S.L.  
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## STEAM SPECIALITIES

### PRESSURE REDUCING VALVE DIRECT ACTING PRV25 G

#### DESCRIPTION

The ADCA PRV25G 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.

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

AVAILABLE MODELS: PRV25G - GGG40.3 body

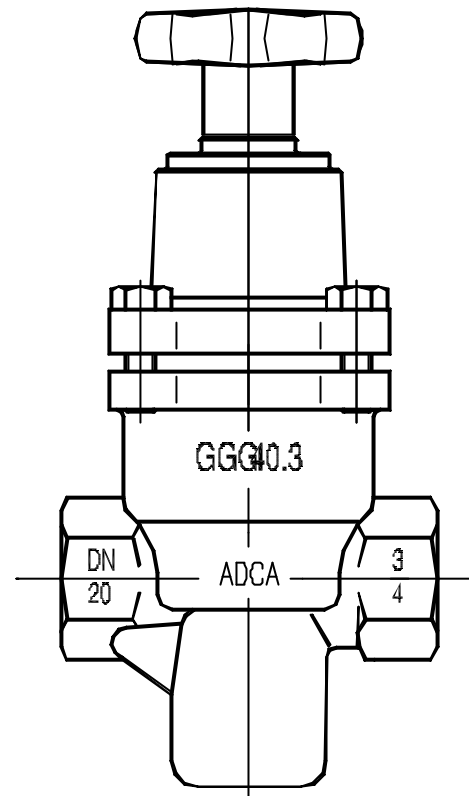
SIZES: 1/2", 3/4", 1".

CONNECTIONS: Female screwed ISO7/1Rp(BS 21) or NPT.

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

#### LIMITING CONDITIONS:

Body design conditions : PN 25  
Maximum upstream pressure : 17 bar  
Maximum downstream pressure : 8,6 bar  
Minimum downstream pressure : 0,14 bar  
Maximum design temperature : 210°C  
Maximum cold hydraulic test : 38 bar  
Maximum reducing ratio : 10:1



#### CAPACITIES (see selection table)

Valve Size	1/2"	3/4"	1"
KVs	1,5	2,5	3,0

#### PRESSURE RANGES

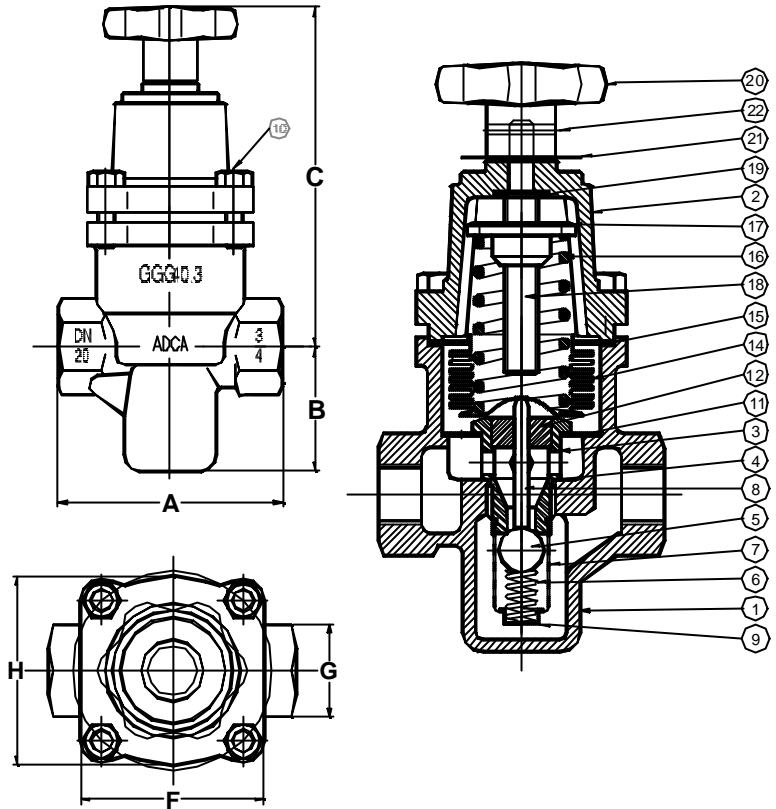
Spring colour	Yellow	Green	Red
Red. pressure ( bar )	0,14 – 1,7	1,4 – 4,0	3,5 – 8,6

We reserve the right to change the design and material of this product without notice.



CAPACITY TABLE

Pressure bar		Steam Kg/h			Compressed Air Nm <sup>3</sup> /h -0°C-1,013bar		
Inlet	Outlet	1/2"	3/4"	1"	1/2"	3/4"	1"
2	0,2	6	7	10	8	9	14
	1	26	32	42	35	39	58
	1,5	30	37	52	40	48	71
3	0,3	12	15	21	15	18	27
	1	30	37	54	33	49	74
	1,5	42	52	73	54	67	101
4	2	50	64	89	67	82	123
	2,5	66	70	99	75	93	138
	0,4	19	24	32	25	30	43
5	1	38	45	69	49	61	89
	1,5	50	62	87	67	82	121
	2	62	77	108	82	100	150
6	2,5	70	87	122	91	114	172
	3	75	92	129	98	121	189
	0,5	42	52	79	57	69	98
7	1,5	60	75	105	79	100	144
	2	68	85	120	90	113	168
	3	88	108	153	115	143	213
8	4	96	120	168	125	155	232
	0,6	46	57	82	60	74	108
	2	74	92	132	98	123	181
9	3	98	120	171	126	159	236
	4	110	136	192	142	180	265
	5	106	132	188	139	175	260
10	0,7	50	63	89	67	84	119
	2	81	102	142	106	133	194
	3	104	131	182	135	171	254
11	4	118	148	206	154	194	288
	6	114	142	201	150	188	278
	0,8	54	67	94	71	88	129
12	2	87	108	152	113	141	213
	3	112	138	196	146	181	272
	4	129	162	227	169	221	314
13	6	138	173	245	180	253	338
	0,9	48	63	92	67	82	125
	2	90	120	157	116	147	216
14	3	116	145	204	151	189	280
	4	136	170	239	177	221	333
	5	150	187	264	195	244	363
15	6	152	190	270	198	252	378
	7	155	194	275	199	250	374
	1	58	73	105	77	95	142
16	2	92	121	164	122	151	227
	3	120	150	214	158	196	293
	4	142	178	250	186	233	347
17	6	170	212	297	208	277	412
	8	178	220	307	229	286	426
	1,1	66	82	121	88	108	160
18	2	96	123	171	127	159	240
	3	130	162	227	170	212	316
	4	158	195	276	205	255	380
19	6	196	242	339	221	317	473
	8	214	266	374	278	347	518
	8,6	218	271	383	284	355	530
20	1,2	73	95	132	99	126	186
	2	108	128	178	135	167	249
	3	138	170	240	177	221	332
21	4	165	205	290	214	268	398
	6	206	255	360	268	332	492
	8	230	285	404	300	374	578
22	8,6	233	289	414	305	380	579
	1,3	85	106	148	111	140	208
	2	110	134	187	141	175	260
23	3	141	175	249	185	231	343
	4	170	213	298	224	278	412
	6	217	281	382	283	350	527
24	8	246	307	435	325	403	604
	8,6	251	314	445	356	412	615
	1,5	92	113	161	117	148	220
25	2	112	138	196	142	179	266
	3	144	177	252	187	236	348
	4	172	208	308	229	285	420
26	6	202	290	390	284	365	544
	8	222	318	448	336	419	626
	8,6	240	355	459	343	428	639
27	1,7	104	123	173	128	160	239
	2	116	141	196	145	183	270
	3	147	181	258	191	241	355
28	4	174	221	314	233	328	429
	6	206	296	404	300	373	556
	8	229	340	469	349	434	650
29	8,6	252	344	478	359	444	673



DIMENSIONS (mm)

SCREWED ENDS

DN	A	B	C	F	G	H	Kg
1/2"	100	55	152	75	37	80	2,23
3/4"	100	55	152	75	37	80	2,2
1"	110	55	152	75	46	80	2,4

MATERIALS ( PRV25/G )

POS.	DESIGNATION	MATERIAL
1	BODY	GGG 40.3
2	COVER	GGG 40.3
3 *	VALVE SEAT	ST.ST. AISI 420
4 *	VALVE SEAT GASKET	ST.ST. AISI 304
5 *	VALVE	ST.ST. AISI 440
6 *	VALVE RETURN SPRING	ST.ST. AISI 302
7 *	STRAINER SCREEN	ST.ST. AISI 304
8	PUSHROD	ST.ST. AISI 316
9	SUPPORT SPRING	ST.ST. AISI 304
10 *	COVER BOLTS	STEEL 8.8
11 *	ORIFICE PLATE	ST.ST. AISI 304
12 *	GUIDE BUSH	GRAPHITE / PTFE
14 *	BELLOWS	ST.ST. AISI 316TI
15 *	BELLOWS GASKET	ST.ST. / GRAPHITE
16 *	ADJUSTMENT SPRING	STEEL
17	TOP SPRING PLATE	CAST IRON
18	ADJUSTMENT SCREW	STEEL
19	WASHER	ST.ST. AISI 304
20	HANDWHEEL	PLASTIC
21	SPRING IDENT. PLATE	ALUMINIUM
22	PIN	STEEL

\* Available spare parts.