

**PRESSURE REDUCING VALVE
DIRECT ACTING
PRV 25/2 S – Carbon steel**

DESCRIPTION

The 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.
Non rising stem regulating knob.
Lockable knob system.
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: ½", ¾", 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)	
PN 25	Category
DN 15 to 25	SEP

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)

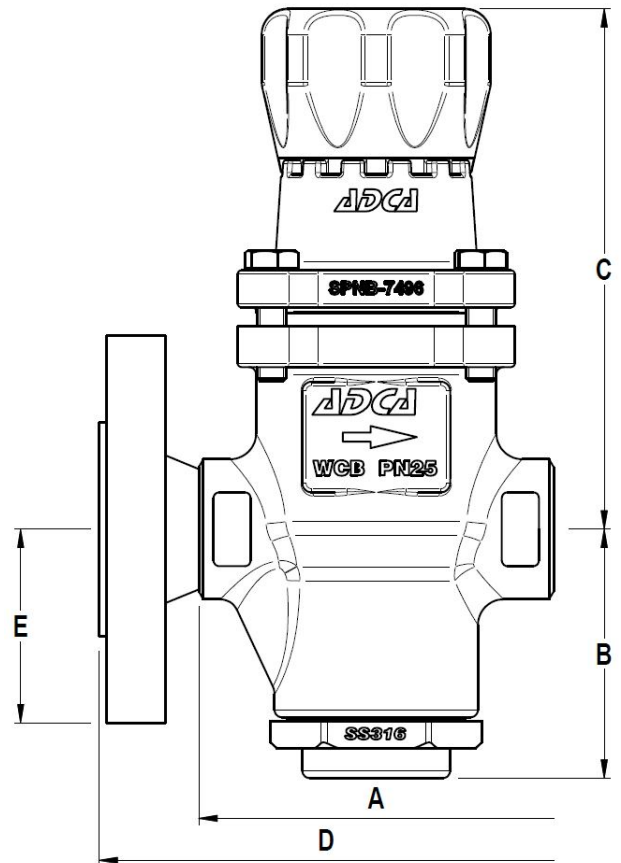
Valve Size	15	20	25
KVs	1,7	2,6	3,1

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

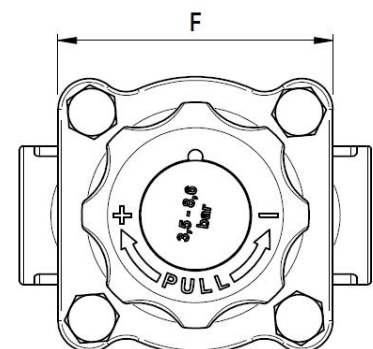
Where control spring ranges overlap, always use the lower range to give better control and precision.



DIMENSIONS (mm)-Screwed

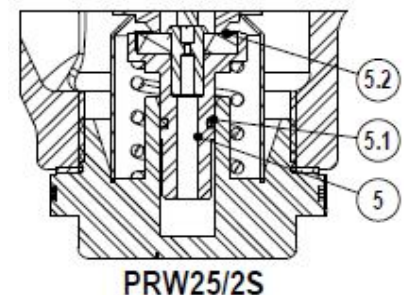
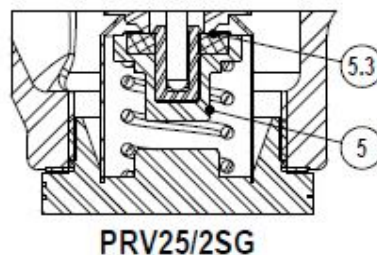
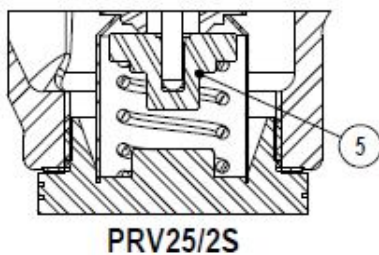
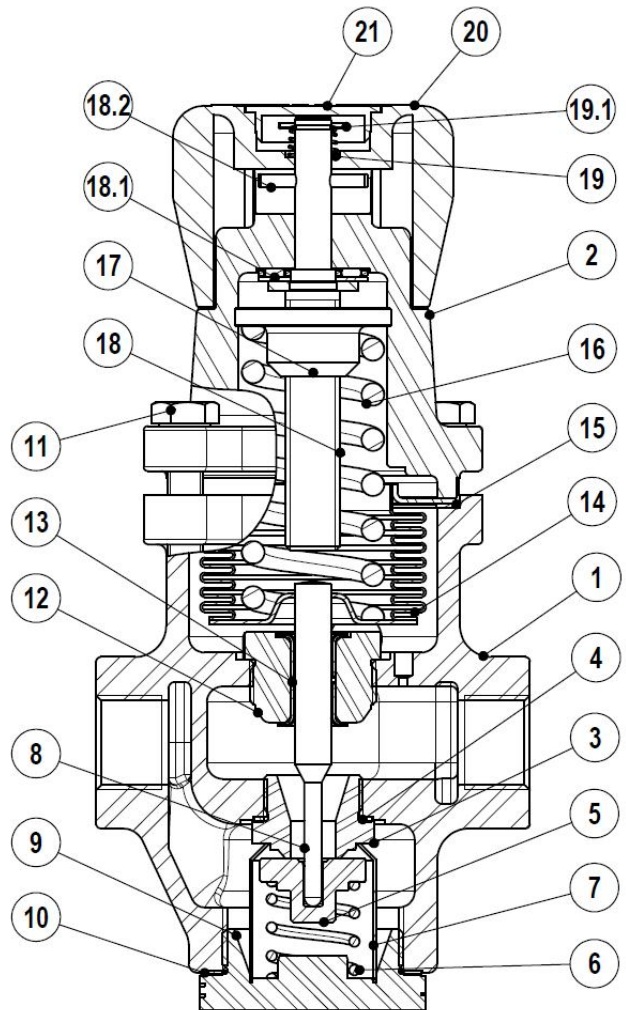
EN1092-1 Flanges

SIZE DN	A	B	C	F	WGT. Kgs	D	E	WGT. Kgs
1/2"	96	68,5	141	74	3	150	47,5	4,4
3/4"	96	68,5	141	74	3	150	52,5	5
1"	96	68,5	141	74	2,9	160	57,5	5,5



MATERIALS		
POS.	DESIGNATION	MATERIAL
1	VALVE BODY	A216WCB / 1.0619 or P250GH / 1.0460
2	COVER	A216WCB / 1.0619
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	STEEL 8.8
12	*GUIDE BUSH	AISI 316 / 1.4401
13	*PLAIN BEARING	BRONZE FILLED PTFE
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
18.1	BEARING	STEEL
18.2	PIN	AISI 304 / 1.4301
19	SPRING	AISI 302 / 1.4300
19.1	STARLOCK WASHER	AISI 302 / 1.4300
20	HANDWHEEL	PLASTIC
21	SPRING IDENT. PLATE	PLASTIC

* 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				
	1,6	38	59	71		1,6	51	80	96				
0,3	45	70	83	3	0,3	61	95	112					
1,2	76	116	138		1,2	103	157	186					
2,2	61	93	111		2,2	82	126	150					
2,6	46	70	83		2,6	62	95	112					
4	0,4	56	87	104	4	0,4	76	117	140	4	3,4	5,2	6,2
	1	66	102	121		1	89	138	163				
	2,5	95	145	173		2,5	128	196	234				
3,5	57	87	104	3,5	77	117	140						
5	0,5	68	105	125	5	0,5	92	142	169	5	3,8	5,8	6,93
	2	91	139	166		2	123	188	224				
	3	114	174	208		3	154	235	281				
4	85	130	155	4	115	176	209						
6	0,6	79	122	145	6	0,6	107	165	196	6	4,16	6,36	7,6
	2	106	162	194		2	143	219	262				
	3	133	203	243		3	180	274	328				
4	120	184	219	4	162	248	296						
7	0,7	91	139	167	7	0,7	123	188	225	7	2,95	4,5	5,37
	2	121	185	222		2	163	250	300				
	3,5	152	232	277		3,5	205	313	374				
5	132	201	240	5	178	271	324						
8	0,8	102	157	187	8	0,8	138	212	252	8	4,8	7,35	8,75
	2	137	210	250		2	185	284	338				
	3,5	171	262	312		3,5	231	354	421				
5	161	247	294	5	217	333	397						
9	0,9	114	174	208	9	0,9	154	235	281	12	5,8	9	10,7
	2,5	133	203	242		2,5	180	274	327				
	4	152	233	277		4	205	315	374				
5	190	291	347	5	257	393	468						
10	7	152	232	277	10	7	205	313	374				
	1	125	192	228		1	169	259	308				
	3	146	224	266		3	197	302	359				
11	4	167	256	305	11	4	225	346	412	11	1,1	136	210
	6	209	320	381		6	282	432	514				
	8	161	247	294		8	217	333	397				
8,6	182	279	331	8,6	246	377	447						
12	1,1	136	210	249	12	1,1	184	284	336	12	1,2	148	227
	3	182	280	333		3	246	378	450				
	6	228	350	416		6	308	473	562				
8	198	302	360	8	267	408	486						
13	8,6	182	279	331	13	8,6	246	377	447	13	1,3	159	244
	1,2	148	227	270		1,2	200	306	365				
	3	197	302	360		3	266	408	486				
6	247	378	451	6	333	510	609						
15	8	228	349	416	15	8	308	471	562	15	1,5	182	259
	8,6	217	332	396		8,6	293	448	535				
	1,3	159	244	291		1,3	215	329	393				
4	186	284	340	4	251	383	459						
17	6	212	325	388	17	6	286	439	524	17	4	212	302
	7	266	407	486		7	359	549	656				
	8,6	246	378	451		8,6	332	510	609				
1,5	182	259	321	15	1,5	246	350	433	15				
4	212	302	374		4	286	408	505					
6	243	345	427		6	328	466	576					
8	304	433	536	8	410	585	724						
17	8,6	298	426	512	17	8,6	402	575	691	17	1,7	205	279
	1,7	205	279	333		1,7	277	377	450				
	4	238	325	386		4	321	439	521				
6	273	372	441	6	369	502	595						
17	8	342	465	555	17	8	462	628	749	17	8	342	465
	8,6	339	449	541		8,6	458	606	730				
	8	342	465	555		8	462	628	749				

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

DESCRIPTION

The 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.
- Non rising stem regulating knob.
- Lockable knob system.
- Built-in strainer.

OPTIONS: Regulating screw with top cap.

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

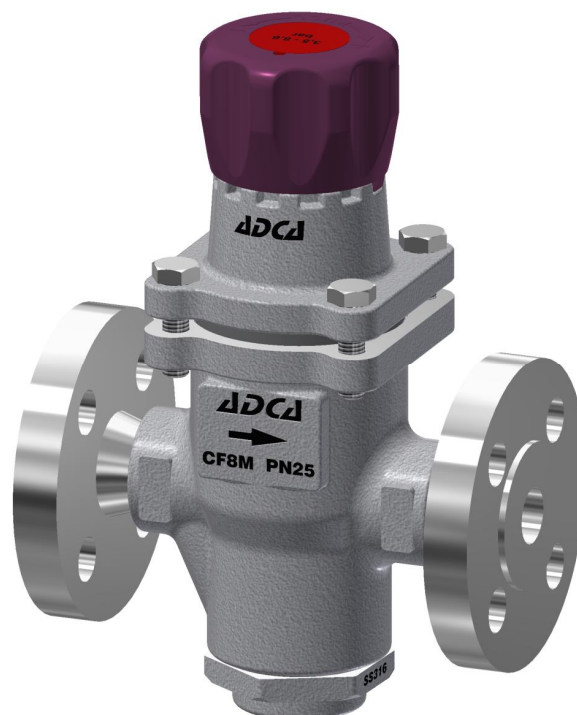
AVAILABLE MODELS:
 PRV25 I – metal to metal seating.
 PRV25IG – soft valve.
 PRW25I – soft valve balanced.

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)	
PN 25	Category
DN 15 to 25	SEP

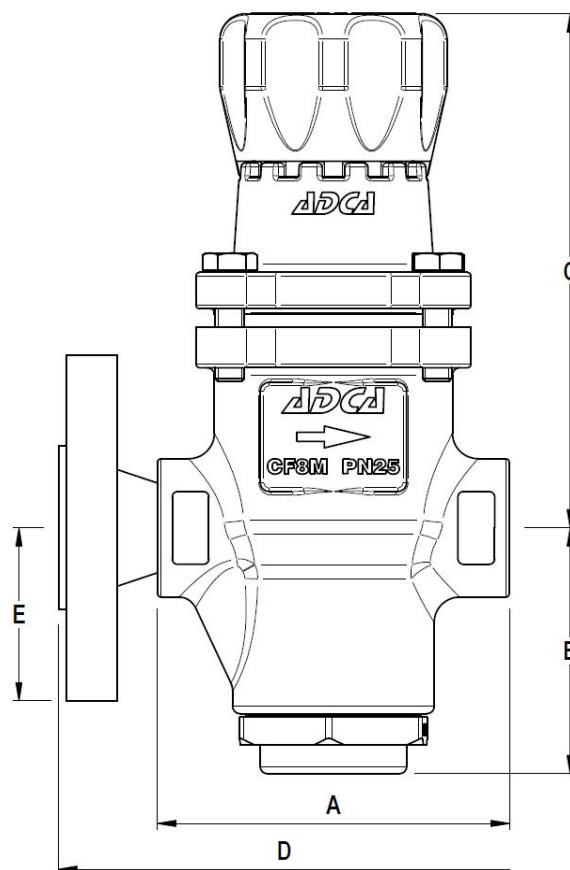
LIMITING CONDITIONS			
	PRV25I	PRV25IG	PRW25I
Body design conditions	PN25	PN25	PN25
Max.upstream pressure	17 bar	17 bar	14 bar
Max.downstream pressure	8,6 bar	8,6 bar	8,6 bar
Min.downstream pressure	0,14 bar	0,14 bar	0,35 bar
Max.design temperature	210°C	180°C	75°C
Max.cold hydraulic test	38 bar	38 bar	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

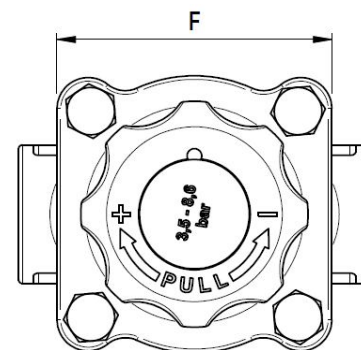
PRESSURE RANGES				
Spring colour	Blue *	Yellow **	Green	Red
Red.Press. bar	0,35 - 1,7	0,14 - 1,7	1,4 - 4,0	3,5 - 8,6

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

Where control spring ranges overlap, always use the lower range to give better control and precision.

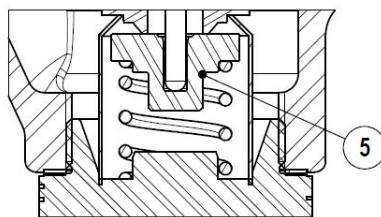
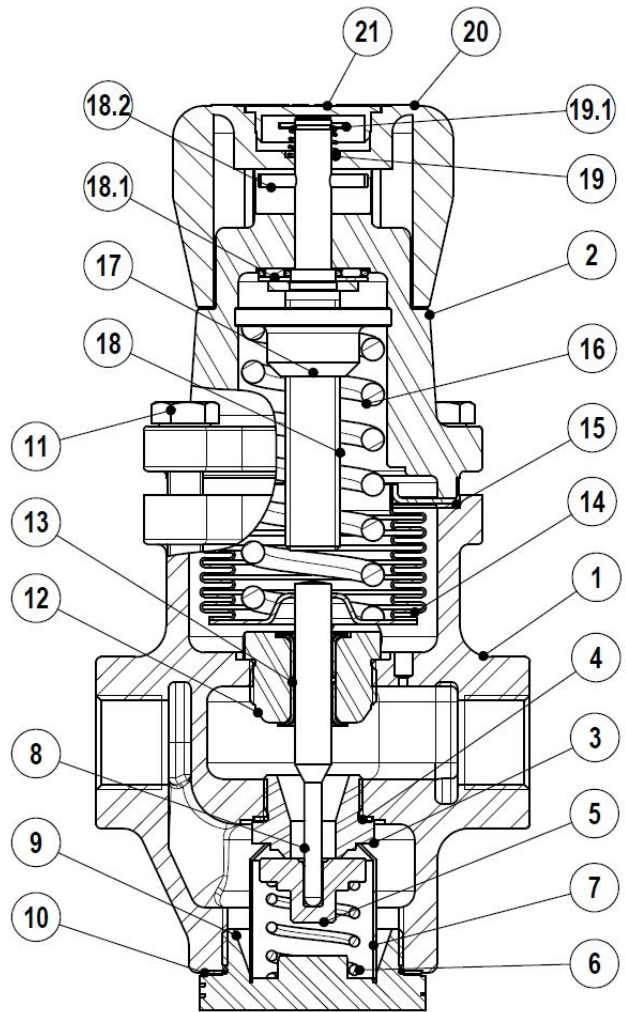


DIMENSIONS (mm)-Screwed						EN1092-1 Flanges		
SIZE DN	A	B	C	F	WGT. Kgs	D	E	WGT. Kgs
1/2"	96	68,5	141	74	3	150	47,5	4,4
3/4"	96	68,5	141	74	3	150	52,5	5
1"	96	68,5	141	74	2,9	160	57,5	5,5

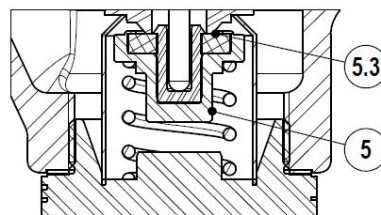


MATERIALS		
POS.	DESIGNATION	MATERIAL
1	VALVE BODY	CF8M / 1.4408
2	COVER	CF8M / 1.4408
3	*SEAT	AISI 316 / 1.4401
4	*GASKET	COPPER
5	*VALVE	HARDENED ST. STEEL
5.1	*O-RING	NBR
5.2	*VALVE HEAD	NBR
5.3	*VALVE HEAD	PTFE/GRAPHITE
6	*VALVE RETURN SPRING	AISI 302 / 1.4300
7	*STRAINER SCREEN	AISI 304 / 1.4301
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	AISI 316 / 1.4401
13	*PLAIN BEARING	BRONZE FILLED PTFE
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
18.1	BEARING	STEEL
18.2	PIN	AISI 304 / 1.4301
19	SPRING	AISI 302 / 1.4300
19.1	STARLOCK WASHER	AISI 302 / 1.4300
20	HANDWHEEL	PLASTIC
21	SPRING IDENT. PLATE	PLASTIC

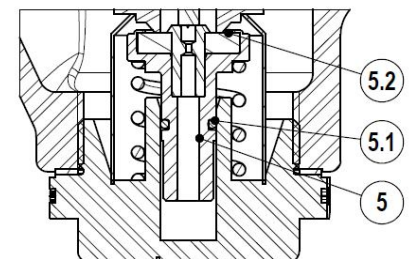
* Available spare parts.



PRV25I



PRV25IG



PRW25I

STEAM CAPACITY TABLE (Kg/h)				
INLET bar	OUTLET bar	SAT. STEAM		
		DN15	DN20	DN25
2	0,2	33	53	64
	1,2	57	87	104
	1,6	38	59	71
3	0,3	45	70	83
	1,2	76	116	138
	2,2	61	93	111
	2,6	46	70	83
4	0,4	56	87	104
	1	66	102	121
	2,5	95	145	173
	3,5	57	87	104
5	0,5	68	105	125
	2	91	139	166
	3	114	174	208
	4	85	130	155
6	0,6	79	122	145
	2	106	162	194
	3	133	203	243
	4	120	184	219
7	0,7	91	139	167
	2	121	185	222
	3,5	152	232	277
	5	132	201	240
8	0,8	102	157	187
	2	137	210	250
	3,5	171	262	312
	5	161	247	294
	6	142	217	259
9	0,9	114	174	208
	2,5	133	203	242
	4	152	233	277
	5	190	291	347
	7	152	232	277
10	1	125	192	228
	3	146	224	266
	4	167	256	305
	6	209	320	381
	8	161	247	294
11	1,1	136	210	249
	3	182	280	333
	6	228	350	416
	8	198	302	360
	8,6	182	279	331
12	1,2	148	227	270
	3	197	302	360
	6	247	378	451
	8	228	349	416
	8,6	217	332	396
13	1,3	159	244	291
	4	186	284	340
	6	212	325	388
	7	266	407	486
	8,6	246	378	451
15	1,5	182	259	321
	4	212	302	374
	6	243	345	427
	8	304	433	536
	8,6	298	426	512
17	1,7	205	279	333
	4	238	325	386
	6	273	372	441
	8	342	465	555
	8,6	339	449	541

COMPRESSED AIR CAPACITY TABLE (Nm ³ /h-0°C-1,013bar)				
INLET bar	OUTLET bar	COMPRESSED AIR		
		DN15	DN20	DN25
2	0,2	45	72	86
	1,2	77	117	140
	1,6	51	80	96
3	0,3	61	95	112
	1,2	103	157	186
	2,2	82	126	150
	2,6	62	95	112
4	0,4	76	117	140
	1	89	138	163
	2,5	128	196	234
	3,5	77	117	140
5	0,5	92	142	169
	2	123	188	224
	3	154	235	281
	4	115	176	209
6	0,6	107	165	196
	2	143	219	262
	3	180	274	328
	4	162	248	296
7	0,7	123	188	225
	2	163	250	300
	3,5	205	313	374
	5	178	271	324
8	0,8	138	212	252
	2	185	284	338
	3,5	231	354	421
	5	217	333	397
	6	192	293	350
	7	205	313	374
9	0,9	154	235	281
	2,5	180	274	327
	4	205	315	374
	5	257	393	468
	7	205	313	374
10	1	169	259	308
	3	197	302	359
	4	225	346	412
	6	282	432	514
	8	217	333	397
11	1,1	184	284	336
	3	246	378	450
	6	308	473	562
	8	267	408	486
	8,6	246	377	447
12	1,2	200	306	365
	3	266	408	486
	6	333	510	609
	8	308	471	562
	8,6	293	448	535
13	1,3	215	329	393
	4	251	383	459
	6	286	439	524
	7	359	549	656
	8,6	332	510	609
15	1,5	246	350	433
	4	286	408	505
	6	328	466	576
	8	410	585	724
	8,6	402	575	691
17	1,7	277	377	450
	4	321	439	521
	6	369	502	595
	8	462	628	749
	8,6	458	606	730

WATER CAPACITY TABLE (m ³ /h)			
D.P. bar	WATER		
	DN15	DN20	DN25
1,5	2,1	3,18	3,8
2	2,4	3,67	4,38
3	2,95	4,5	5,37
4	3,4	5,2	6,2
5	3,8	5,8	6,93
6	4,16	6,36	7,6
8	4,8	7,35	8,75
12	5,8	9	10,7

