Straight Bodied Flanged Valve 7030

DN 15 up to DN 150 PN 16

Pneumatically operated straight bodied seat valve for the use in chemical plants, process technology and industrial automation.

- Unaffected by lightly contaminated media
- For temperatures from -100°C up to +220°C
- Working pressure up to 16 bar
- Versatile actuators in different sizes
- Available also in pressure released design

Technical Information

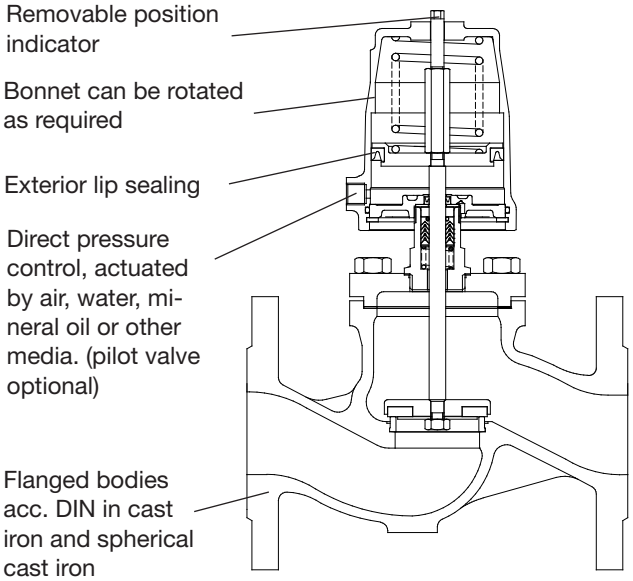
Body material	EN - GJL - 250 (GG 25) EN - GJS - 400 - 18 - LT (GGG 40.3)
Nominal size	DN 15 up to DN 150
Connection	flange acc. DIN EN 1092-1
Nominal pressure	PN 16
Max. fluid temperature: with metal bonnet with plastic bonnet	 -10°C up to +170°C, opt. -100°C up to +220°C -10°C up to +135°C
Ambient temperature	-30°C up to +60°C
Viscosity of the fluid	maximum 600 mm²/s (600 cSt)
Vacuum	maximum 0,001 bar abs
Working pressure	See tables and diagramms,limitation for dangerous gases acc. Pressure equipment directive 2014/68/EU (category I): PS x DN < 1000
Working pressure for packing underneath	maximum 12 bar
Leakage acc. EN 12266-1	leakage class A
Packing leakage	tested according to TA-Luft as defined in DIN EN ISO 15848-1 and VDI 2440

*: Please consider further temperature versions and limits in technical bulletin 32

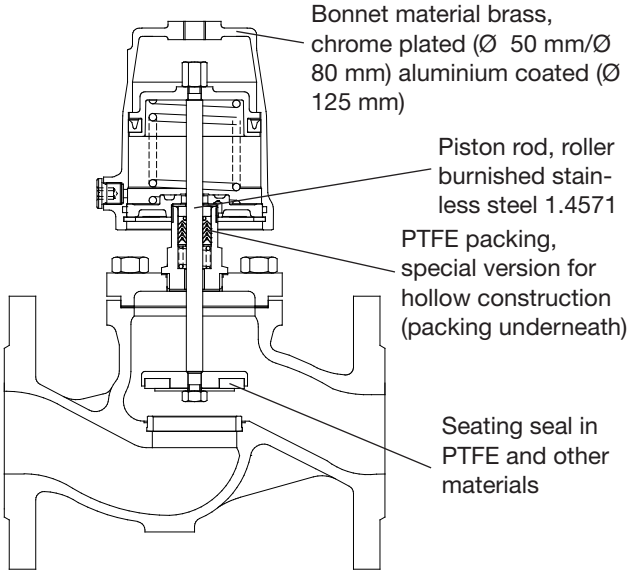
Options

e.g.:
- limit switches
  - inductive proximity switch
  - electrical switches
  - pneumatic switches
- pilot valves
- AS-I control head
- manual override
- high temperature version up to +200°C
- oil and grease free version

Normally closed



Normally open



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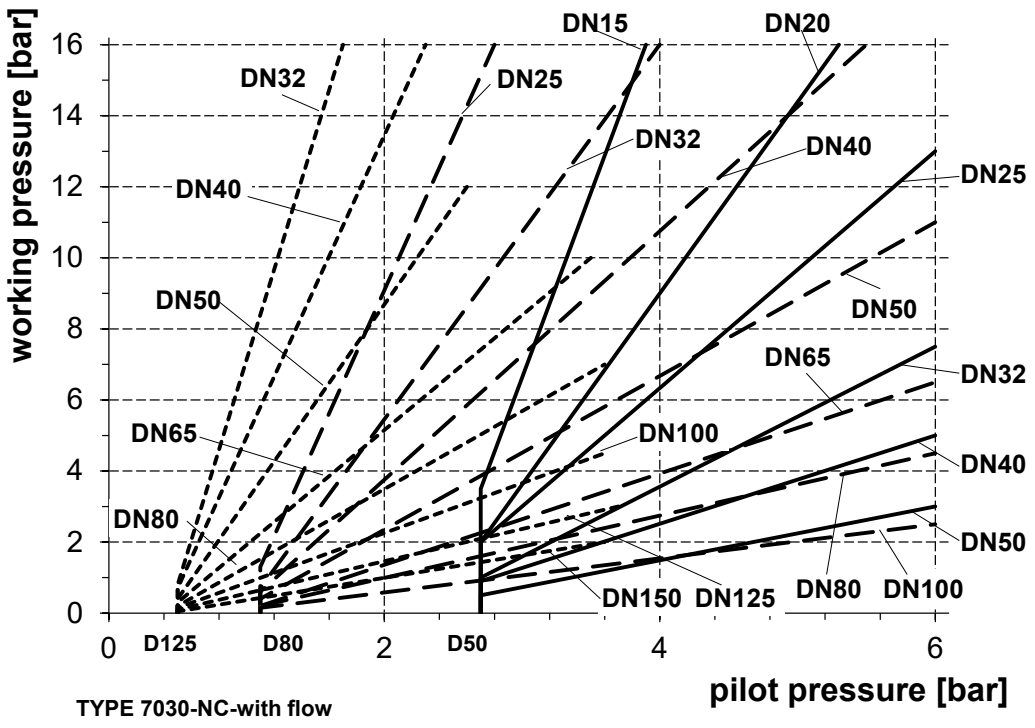
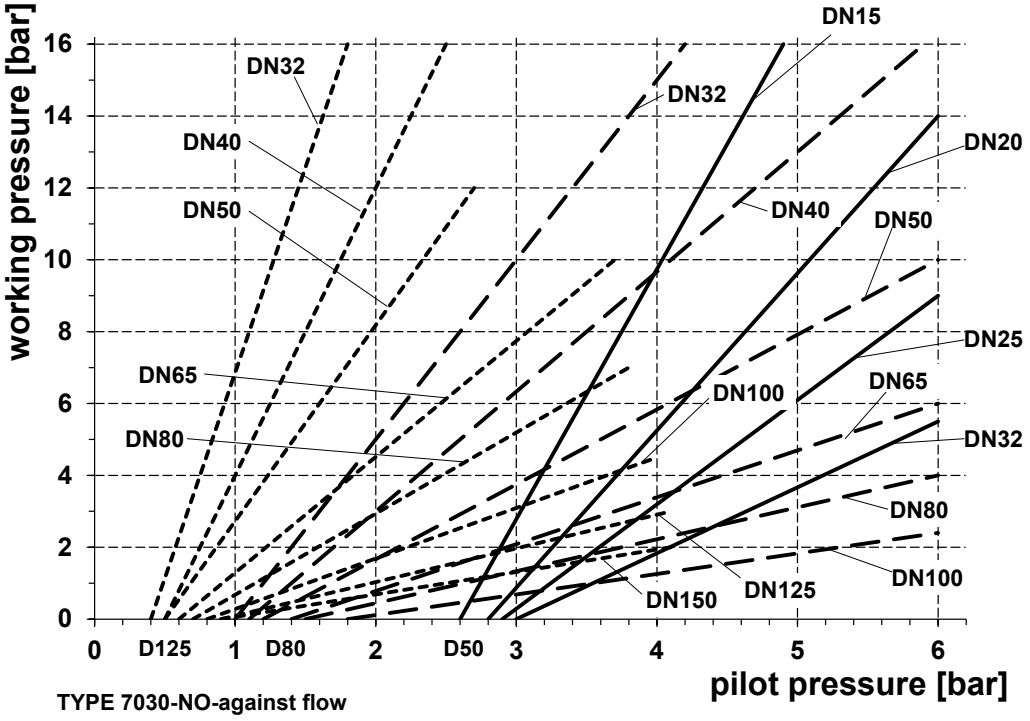


TYPE 7030-NC-with flow

Use particularly for gases because of the danger of water hammers.



TYPE 7030-NO-against flow

Use for gases and liquids.

Maximum pilot pressures NO-against flow:

Piston Ø 50:	1 bar more than necessary pilot pressure for working pressure
Piston Ø 80:	0,8 bar more than necessary pilot pressure for working pressure
Piston Ø 125:	0,5 bar more than necessary pilot pressure for working pressure

Piston Ø 50 mm
Piston Ø 80 mm
Piston Ø 125 mm

Straight Bodied Flanged Valve 7030

SCHUBERT SALZER

NC (closing against flow)

The pressure diagrams and the values are valid for soft seat material (EPDM, NBR, FKM). Values for other materials on demand.

Nominal size	Working pressure (i.e. differential) bar	Pilot pressure bar	Antrieb Kolben mm	Springs
DN15	10,0	3,5 - 10	50	1
DN15	16,0	4,5 - 10	50	2
DN20	6,0	3,5 - 10	50	1
DN20	10,0	4,5 - 10	50	2
DN20	14,0	5,7 - 10	50	3
DN20	16,0	3,5 - 10	80	1
DN25	5,0	4,5 - 10	50	2
DN25	7,0	5,7 - 10	50	3
DN25	16,0	3,5 - 10	80	1
DN32	3,5	4,5 - 10	50	2
DN32	5,5	5,7 - 10	50	3
DN32	11,0	3,5 - 10	80	1
DN32	15,0	4,4 - 10	80	2
DN32	16,0	5,6 - 10	80	3
DN32	9,5	1,3 - 10	125	1
DN32	16,0	2,2 - 10	125	2
DN40	6,5	3,5 - 10	80	1
DN40	9,0	4,4 - 10	80	2

Nominal size	Working pressure (i.e. differential) bar	Steuerdruck bar	Antrieb Kolben mm	Springs
DN40	11,0	5,6 - 10	80	3
DN40	5,5	1,3 - 10	125	1
DN40	12,0	2,2 - 10	125	2
DN40	16,0	3,1 - 10	125	3
DN50	4,5	3,5 - 10	80	1
DN50	6,0	4,4 - 10	80	2
DN50	7,5	5,6 - 10	80	3
DN50	3,5	1,3 - 10	125	1
DN50	8,0	2,2 - 10	125	2
DN50	11,0	3,1 - 10	125	3
DN65	4,0	5,6 - 10	80	3
DN65	4,5	2,2 - 10	125	2
DN65	6,5	3,1 - 10	125	3
DN80	3,0	2,2 - 10	125	2
DN80	4,0	3,1 - 10	125	3
DN100	2,3	3,1 - 10	125	3
DN125	1,4	3,1 - 10	125	3
DN150	0,9	3,1 - 10	125	3

Standard

Ordering Number System

1	2	3	4	5	6	7	8	9	10	11	12
7	0	3	0	/				V			S

Type: 7030 — Size: / — Symbol: "V": Valve; "A": Actuator (valve without body); "R": Repair kit (sealings)

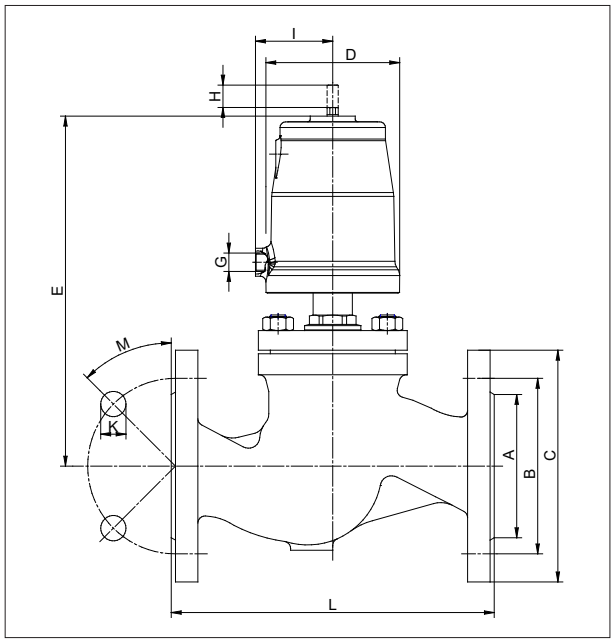
1 - 6 : Please quote all 6 sections
7 - 12: Quote only if required

1.	Body type	2.	Connection	3.	Body material	4.	Seating seal	5.	Pilot function	6.	Actuator
2	flanged body	1	flange acc. DIN EN 1092-1	3	grey cast iron EN-GJL-250 (GG25) PN16	0	PTFE	0	NC (closing with flow)	0	piston Ø50 mm
						1	FKM (Viton)	1	NO (closing against flow)	1	piston Ø80 mm
						2	EPDM	2	NC (closing against flow)	2	piston Ø125 mm
				4	spheroidal cast iron EN-GJS-400-18-LT (GGG 40.3), PN 16	3	NBR	3	Universal, double acting		
								5	Balanced plug (spring closes)		

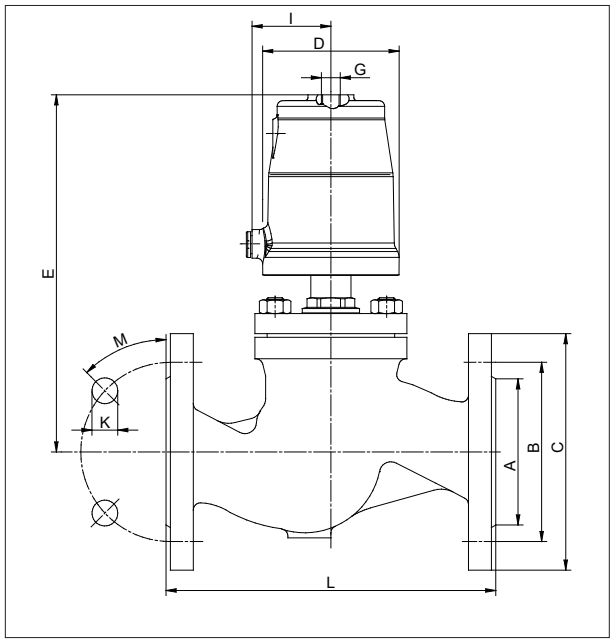
7.	Springs	8.		9.	Packing	10.	Temperature versions	11.	Accesories	12.	Special versions
-	Standard	-	without singificance	-	standard	-	standard	-	no accessories	S	special versions
1	1 spring			2	packing underneath	H	high temperature version	1	electrical position indicator with one switch	M	position indicator with cable bushing
2	2 springs					V	viton exterior lip sealing	2	electrical position indicator with two switches	N	position indicator with plug connection
3	3 springs							3	manual emergency operation		
								4	additional manual operation		
								5	stroke limitation		
								6	pilot valve DN 2, 230 V AC		
								7	pilot valve DN 2, 24 V DC		
								K	electr. position indicator compact		
								M	position indicator with two ind. switch 10 - 36 V DC (PNP)		
								P	position indicator with one ind. switch 10 - 36 V DC (PNP)		
								T	position indicator compact, inductive 10 - 30 V DC (PNP)		

Ordering example: 7030/080V213222- - - - 7
Flanged body valve, Nominal size 80 mm, DIN-flange, iron cast body GG 25,
EPDM seat material, NC (closing against flow), piston 125 mm, pilot valve 24 V DC.

Dimensions and Weights



Normally closed



Normally open and universal

DN	Piston Actuator	A	B	C	D	E Body GG/GGG	G	H (Stroke)	I	K	L*	M	N (No. of drillings)	Kvs-value	Weight (ca.kg)
15	50	45	65	95	62	165	G1/8"	8	34,5	14	130	45°	4	3,6	3,6
20	50	58	75	105	62	176	G1/8"	10	34,5	14	150	45°	4	6,0	4,4
25	50	68	85	115	62	182	G1/8"	11	34,5	14	160	45°	4	9,6	5,0
25	80	68	85	115	98	221	G1/4"	12	55	14	160	45°	4	9,6	6,6
32	50	78	100	140	62	197	G1/8"	15	34,5	18	180	45°	4	15,0	7,3
32	80	78	100	140	98	236	G1/4"	15	55	18	180	45°	4	15,0	7,8
32	125	78	100	140	146	260	G1/4"	16	80	18	180	45°	4	15,0	10,0
40	50	88	110	150	62	202	G1/8"	16	34,5	18	200	45°	4	23,0	8,2
40	80	88	110	150	98	241	G1/4"	16	55	18	200	45°	4	23,0	9,7
40	125	88	110	150	146	265	G1/4"	16	80	18	200	45°	4	23,0	11,9
50	50	102	125	165	62	211	G1/8"	16	34,5	18	230	45°	4	36,0	10,6
50	80	102	125	165	98	250	G1/4"	16	55	18	230	45°	4	36,0	12,1
50	125	102	125	165	146	274	G1/4"	16	80	18	230	45°	4	36,0	14,2
65	80	122	145	185	98	313	G1/4"	19	55	18	290	45°	4	58,0	20,0
65	125	122	145	185	146	336	G1/4"	19	80	18	290	45°	4	58,0	22,2
80	80	138	160	200	98	317	G1/4"	22	55	18	310	22.5°	8	92,0	22,5
80	125	138	160	200	146	340	G1/4"	22	80	18	310	22.5°	8	92,0	24,7
100	80	158	180	220	98	327	G1/4"	27	55	18	350	22.5°	8	150,0	37,0
100	125	158	180	220	146	350	G1/4"	27	80	18	350	22.5°	8	150,0	39,0
125	125	188	210	250	146	387	G1/4"	28	80	18	400	22.5°	8	227,0	48,2
150	125	212	240	285	146	389	G1/4"	28	80	22	480	22.5°	8	327,0	64,2

* Dimensions in accordance with DIN 3502, series F1

Dimensions in mm

Flanged Valve 7030

with balanced plug

The valve working with a balanced plug enables the control of higher working pressures even with larger orifice sizes. Often a smaller actuator can be used while the air - consumption is smaller, too.

Technical Information

Body material	EN - GJL - 250 (GG25) EN - GJS - 400 - 18 LT (GGG 40.3)
Nominal size	DN 40 up to DN 150
Connection	Flange acc. DIN EN 1092-1
Nominal pressure	PN 16
Fluid temperature	-10°C up to +170°C as option up to +200°C
Ambient temperature	-10°C up to +60°C
Viscosity of the fluid	maximum 6 x 10-4 m^2/s^2 (600cSt, 80°E)

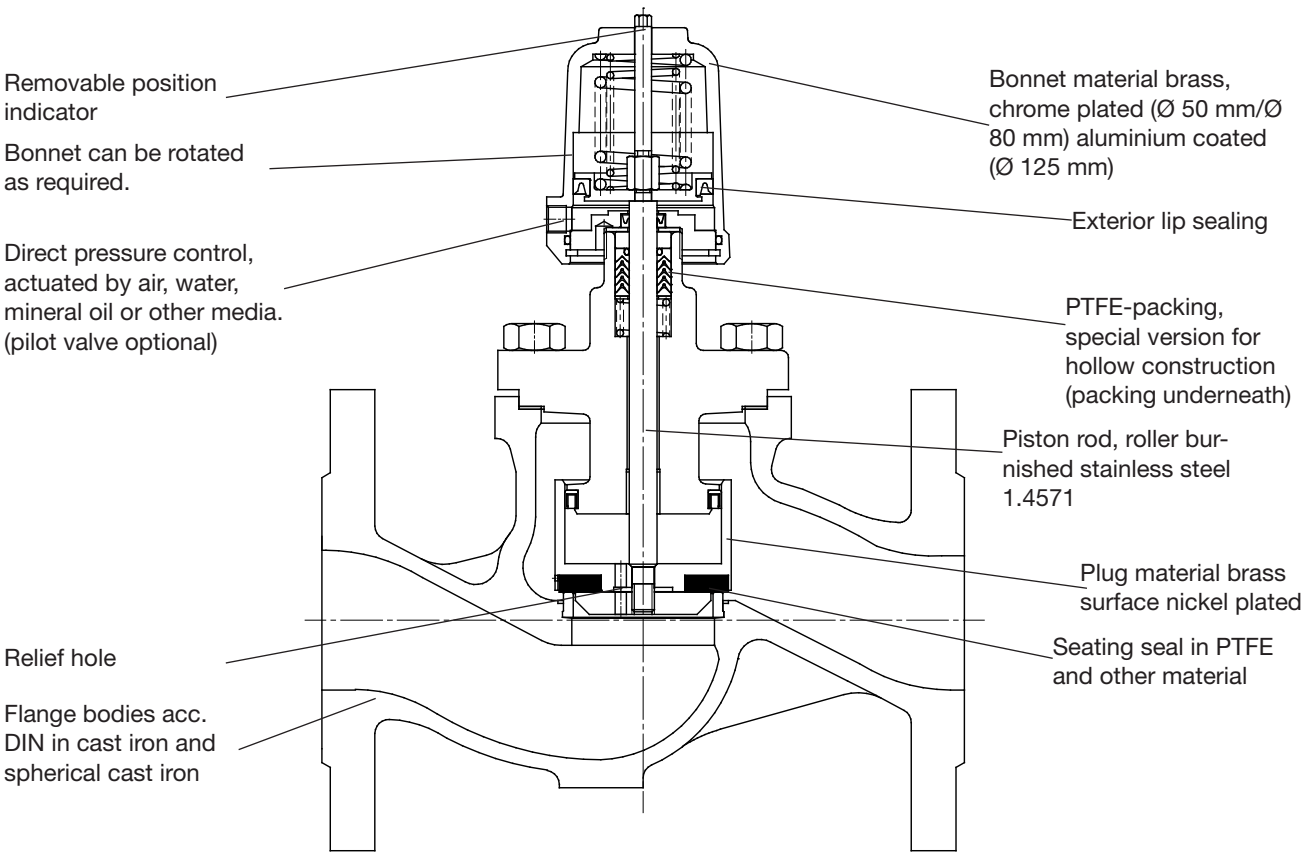
Working pressure

Nominal size mm	Working pressure (i.e. differential) bar	Pilot pressure bar seat material PTFE	FKM/EPDM/ NBR	Piston actuator Ø mm
40	16	4,5 - 10 (2)	3,5 - 10 (1)	50
50	16	-	4,5 - 10 (2)	50
50	16	3,5 - 10 (1)	3,5 - 10 (1)	80
65	16	3,5 - 10 (1)	3,5 - 10 (1)	80
80	16	5,6 - 10 (3)	3,5 - 10 (1)	80
80	16	3,1 - 10 (3)	1,3 - 10 (1)	125
100	16	-	3,5 - 10 (1)	80
100	16	3,1 - 10 (3)	1,3 - 10 (1)	125
125	16	3,1 - 10 (3)	2,2 - 10 (2)	125
150	16	3,1 - 10 (3)	2,2 - 10 (3)	125

Normally closed, flanged valves, closing against the flow.
( ) Number of springs

Options

- limit switches
  - inductive proximity switch
  - electrical switches
  - pneumatic switches
- pilot valves
- manual override
- high temperature version up to +200°C
- oil and grease free version



Flanged Valve 7030

with balanced plug

Dimensions and Weights

DN	Piston actuator Ø	A	B	C	D	E	G	H (Stroke)	I	K	L*	M	(No. of drillings)	Kvs-value	Weight (kg)
40	50	88	110	150	62	212	G1/8"	13	34.5	18	200	45°	4	23	8,2
50	50	102	125	165	62	213	G1/8"	15	34.5	18	230	45°	4	36	10,5
50	80	102	125	165	98	252	G1/4"	16	55	18	230	45°	4	36	12,0
65	80	122	145	185	98	313	G1/4"	22	55	18	290	45°	4	58	20,0
80	80	138	160	200	98	317	G1/4"	25	55	18	310	22.5°	8	92	22,5
80	125	138	160	200	146	340	G1/4"	25	80	18	310	22.5°	8	92	25,0
100	80	158	180	220	98	327	G1/4"	29	55	18	350	22.5°	8	150	32,0
100	125	158	180	220	146	350	G1/4"	29	80	18	350	22.5°	8	150	34,0
125	125	188	210	250	146	387	G1/4"	29	80	18	400	22.5°	8	227	51,0
150	125	212	240	285	146	389	G1/4"	29	80	22	480	22.5°	8	327	64,0

* Dimensions in accordance with DIN 3502, series F1

Dimensions in mm