

PRUSS

UNDER PRESSURE SINCE 1889.



2018 PRICE LIST HEATING VALVES

EXPERIENCE AND QUALITY SINCE 1889

ABOUT PRUSS

The Waldemar Pruss Armaturenfabrik GmbH, with its headquarters in Hanover, specializes in the production of control valves and actuators specifically tailored to customer requirements.

Since its establishment in 1889, at a time when small heating valves were still being produced, the company has been engaged in a continuous development process in the manufacture and design of control fittings. It is solely on the basis of this constant development process that we can provide this exceptionally high level of quality to our customers and have been able to establish ourselves in the global market over the last 125 years despite fluctuating product requirements.

We are proud of the fact that, for over a century, we have been providing our customers with products which have ensured that the „Made in Germany“ label is a globally recognised guarantee of quality!

On the basis of our high levels of flexibility, we can customize our products for use in the most diverse branches of industry. In the highly competitive market of control valves, we have found our niche in providing tailor-made all-round solutions. Our optimized organisational structure, flawless teamwork and state-of-the-art production facilities enable us to fulfil all our customers' requirements and special requests. At the same time, our lean and flexible company structure means that we can guarantee short response and delivery times.

Our flexible manufacturing processes allow us to produce valves in all sizes and pressure ranges. Our fittings are available in both cast-steel and forged-steel variants. In addition to fittings, we also provide our customers with the matching actuators for our valves.

Although we do order electrical actuators from our long-standing suppliers, we manufacture all pneumatic and hydraulic actuators ourselves. This means that our customers can always obtain the perfect all-round solution from a single source.

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PG = Product group
UPG = Sub-product group

Our minimum order quantity is € 30.00 net per order | Additional cost for silicon-free delivery for every tested part € 4.50

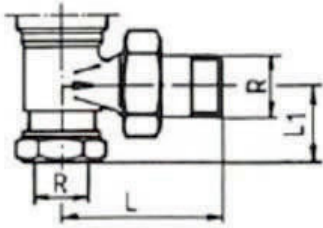


Manual Control Valve PN 10

Type 154

Control valve with proportional control, double-cone and -spindle, for warm water up to 120°C. With seat and cone made of NIRO suitable for high alkalinities (with a pH-value of 8 onward).

Housing material		Red brass (Rg 5)
Seat/Cone material		Red brass / brass
	NIRO:	Stainless steel for high alkalinity
Design		Normal design
	BM:	Authority model with secured upper section cap and gland nut
Ports	Inlet:	Hexagon coupling with female thread
	Outlet:	Conical sealing screw joint with male thread nipple
	MU:	Hexagon coupling with female thread on both sides
	LN:	On both sides hard soldered long welded nipple, each of them 150mm long
	FD:	flat sealing screw joint on both sides, with welded nipple, seal and union nut
Actuating design	H:	Normal handwheel
	K:	Cap handwheel
	S:	Socket spanner
	SG:	Socket spanner, cap closed with the help of screwable sealing plug
Housing form	E:	Angular form
	D:	Straight form
Option	SF:	Valve in „silicon-free“ design at an additional cost of € 4.50 per valve



Size	R	L	L ₁	H		K		S	
				H ₁ =	D ₁ =	H ₂ =	H ₃ =		
DN 10	3/8"	68	30,5	79	70	79	83		
DN 15	1/2"	68	30,5	79	70	79	83		
DN 20	3/4"	68	32,5	79	70	79	83		
DN 25	1"	79	36	90	75		96		
DN 32	1 1/4"	90	40	95	75		102		

Manual Block Valve PN 10

Type	Material Seat/Cone	Design	Port	Actuating design	Housing form	3/8"		1/2"		3/4"		1"		1 1/4"		Dimensional drawing
						Item no.	Price [EUR]	Item no.	Price [EUR]	Item no.	Price [EUR]	Item no.	Price [EUR]	Item no.	Price [EUR]	
154				H	E	10001	62,30	10002	62,30	10003	69,10	10004	91,90	10005	125,70	2A
154				H	D	10021	66,50	10022	66,50	10023	74,30	10024	98,60	10025	136,30	1A
154				K	E	10181	62,30	10182	62,30	10183	69,10	—	—	—	—	2B
154				K	D	10191	66,50	10192	66,50	10193	74,30	—	—	—	—	1B
154				S	E	10011	62,30	10012	62,30	10013	69,10	10014	91,90	10015	125,70	2C
154				S	D	10031	66,50	10032	66,50	10033	74,30	10034	98,60	10035	136,30	1C
154				SG	E	10121	64,90	10122	65,00	10123	71,60	10124	95,50	10125	129,30	2C
154				SG	D	10131	68,70	10132	68,70	10133	76,80	10134	101,60	10135	139,50	1C
154			MU	H	D	10501	66,50	10502	66,50	10503	74,30	10504	98,60	—	—	5A
154			MU	S	D	10511	66,50	10512	66,50	10513	74,30	10514	98,60	—	—	5C
154			LN	H	D	10901	82,50	10902	82,50	10903	95,20	10904	121,00	—	—	6A
154			LN	S	D	10911	82,50	10912	82,50	10913	95,20	10914	121,00	—	—	6C
154			FD	H	D	10701	82,50	10702	82,50	10703	93,50	10704	122,60	—	—	3A
154			FD	S	D	10711	82,50	10712	82,50	10713	93,50	10714	122,60	—	—	3C
154		BM		H	E	10401	65,00	10402	65,10	10403	71,70	10404	95,60	10405	129,90	2A
154		BM		H	D	10421	69,10	10422	69,00	10423	76,90	10424	101,70	10425	140,20	1A
154		BM		S	E	10411	65,00	10412	65,10	10413	71,70	10414	101,80	10415	129,90	2C
154		BM		S	D	10431	69,10	10432	69,10	10433	76,90	10434	101,70	10435	140,20	1C
154		BM		SG	E	10461	67,50	10462	67,50	10463	74,30	10464	98,60	10465	133,50	2C
154		BM		SG	D	10471	71,60	10472	71,70	10473	79,40	10474	104,90	10475	143,90	1C
154	NIRO			H	E	10201	75,70	10202	75,80	10203	84,70	10204	113,30	10205	154,50	2A
154	NIRO			H	D	10221	80,00	10222	80,00	10223	89,90	10224	119,70	10225	164,70	1A
154	NIRO			S	E	10211	75,80	10212	75,80	10213	84,70	10214	113,30	10215	154,50	2C
154	NIRO			S	D	10231	80,00	10232	80,00	10233	89,90	10234	119,70	10235	164,70	1C
154	NIRO		FD	H	D	10741	95,80	10742	95,80	10743	109,60	10744	143,90	—	—	3A
154	NIRO		FD	S	D	10751	95,80	10752	95,80	10753	109,60	10754	143,90	—	—	3C
154	NIRO	BM		H	E	10361	78,30	10362	78,30	10363	87,50	10364	116,40	10365	158,40	2A
154	NIRO	BM		H	D	10381	82,40	10382	82,50	10383	92,80	10384	122,80	10385	168,90	1A
154	NIRO	BM		S	E	10371	78,30	10372	78,30	10373	87,50	10374	116,40	10375	158,40	2C
154	NIRO	BM		S	D	10391	82,40	10392	82,50	10393	92,80	10394	122,80	10395	168,90	1C

Standard valves: Bold

Custom-made valves: Normal

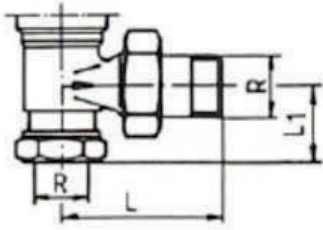


Manual Block Valve PN 10

Type 155

Block valve for warm water up to 120°C. With seat and cone made of NIRO suitable for high alkalinities (with a pH-value of 8 onward) and steam up to 110°C / max 0.5 bar.

Housing material		Red brass (Rg 5)
Seat/Cone material	NIRO:	Red brass / brass Stainless steel for high alkalinity and steam
Design	BM:	Normal design Authority model with secured upper section cap and gland nut
Ports	Inlet:	Hexagon coupling with female thread
	Outlet:	Conical sealing screw joint with male thread nipple
	MU:	Hexagon coupling with female thread on both sides
Actuating design	H:	Normal handwheel
	S:	Socket spanner
	SG:	Socket spanner, cap closed with the help of screwable sealing plug
Housing form	E:	Angular form
	D:	Straight form
Option	SF:	Valve in „silicon-free“ design at an additional cost of € 4.50 per valve



Size	R	L	L ₁	H		K		S	
				H ₁ =	D ₁ =	H ₂ =	H ₃ =		
DN 10	3/8"	68	30,5	79	70	79	83		
DN 15	1/2"	68	30,5	79	70	79	83		
DN 20	3/4"	68	32,5	79	70	79	83		
DN 25	1"	79	36	90	75		96		
DN 32	1 1/4"	90	40	95	75		102		

Manual Block Valve PN 10

Typ	Material Seat/Cone	Design	Port	Actuating design	Housing form	3/8"		1/2"		3/4"		1"		1 1/4"		Dimensional drawing
						Item no.	Price [EUR]	Item no.	Price [EUR]	Item no.	Price [EUR]	Item no.	Price [EUR]	Item no.	Price [EUR]	
155				H	E	10041	62,30	10042	62,30	10043	69,10	10044	91,90	10045	125,70	2A
155				H	D	10061	66,50	10062	66,50	10063	74,30	10064	98,60	10065	136,30	1A
155				S	E	10051	62,30	10052	62,30	10053	69,10	10054	91,90	10055	125,70	2C
155				S	D	10071	66,50	10072	66,50	10073	74,30	10074	98,60	10075	136,30	1C
155				SG	E	10141	65,00	10142	65,00	10143	71,60	10144	95,50	10145	129,30	2C
155				SG	D	10151	68,70	10152	68,70	10153	76,80	10154	101,60	10155	139,60	1C
155			MU	H	D	10521	66,50	10522	66,50	10523	74,30	10524	98,60	10525	136,30	5A
155			MU	S	D	10531	66,50	10532	66,50	10533	74,30	10534	98,60	10535	136,30	5C
155		BM		H	E	10621	65,10	10622	65,00	10623	71,70	10624	95,60	10625	129,90	2A
155		BM		H	D	10641	69,10	10642	69,10	10643	76,90	10644	101,70	10645	140,20	1A
155		BM		S	E	10631	65,10	10632	65,10	10633	71,70	10634	95,60	10635	129,90	2C
155		BM		S	D	10651	69,10	10652	69,10	10653	76,90	10654	101,70	10655	140,20	1C
155		BM		SG	E	10481	67,50	10482	67,50	10483	74,30	10484	98,60	10485	133,50	2C
155		BM		SG	D	10491	71,60	10492	71,60	10493	79,40	10494	104,40	10495	143,90	1C
155	NIRO			H	E	10241	75,80	10242	75,80	10243	84,70	10244	113,30	10245	154,50	2A
155	NIRO			H	D	10261	80,00	10262	80,00	10263	89,90	10264	119,70	10265	164,70	1A
155	NIRO			S	E	10251	75,80	10252	75,80	10253	84,70	10254	113,30	10255	154,50	2C
155	NIRO			S	D	10271	80,00	10272	80,00	10273	89,90	10274	119,70	10275	164,70	1C

Standard valves: Bold

Custom-made valves: Normal

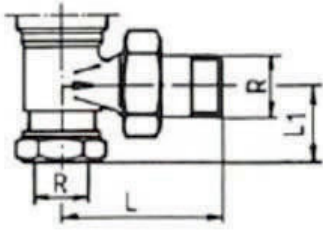


Manual Block- and Control-valve PN 10

Type 157

Block- and control-valve, cone with an adjustment scale for warm water up to 120°C and for low-pressure steam up to 110°C / max. 0.5 bar.

Housing material		Red brass (Rg 5)
Seat/Cone material	SOM:	Stainless steel, cone highly quenched and tempered
Design		Normal design
Ports	Inlet:	Hexagon coupling with female thread
	Outlet:	Conical sealing screw joint with male thread nipple
Actuating design	H:	Normal handwheel
Housing form	E:	Angular form
	D:	Straight form
Option	SF:	Valve in „silicon-free“ design at an additional cost of € 4.50 per valve



Size	R	L	L ₁	H				K		S	
				H ₁ =		D ₁ =		H ₂ =		H ₃ =	
DN 10	3/8"	68	30,5	79	70	79	83				
DN 15	1/2"	68	30,5	79	70	79	83				
DN 20	3/4"	68	32,5	79	70	79	83				
DN 25	1"	79	36	90	75		96				
DN 32	1 1/4"	90	40	95	75		102				

Manual block- and control-valve PN 10

Type	Material Seat/Cone	Design	Port	Actuating design	Housing form	3/8"		1/2"		3/4"		1"		1 1/4"		Dimensional drawing
						Item no.	Price [EUR]	Item no.	Price [EUR]	Item no.	Price [EUR]	Item no.	Price [EUR]	Item no.	Price [EUR]	
157	SOM			H	E	10321	78,50	10322	78,50	10323	88,10	10324	117,40	10325	160,40	2A
157	SOM			H	D	10331	83,10	10332	82,60	10333	93,00	10334	124,00	10335	170,50	1A

Standard valves: Bold

Custom-made valves: Normal

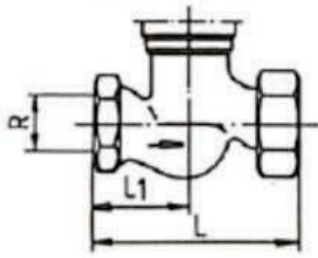


Manual Discharge Valve PN 10

Type 156

Discharge valve for warm water up to 120°C. With seat and cone made of NIRO suitable for high alkalinities (with a pH-value of 8 onward) and steam up to 110°C / max 0.5 bar.

Housing material		Red brass (Rg 5)
Seat/Cone material		Red brass / brass
	NIRO:	Stainless steel for high alkalinity and steam
Design		Normal design
	BM:	Authority model with secured upper section cap and gland nut
Ports	Inlet:	Hexagon coupling with female thread
	Outlet:	is provided with a sealing cap
	FD:	Inlet: flat sealing screw joint with welded nipple, seal and union nut
	Outlet:	is provided with a sealing cap
Actuating design	H:	Normal handwheel
	S:	Socket spanner
	SG:	Socket spanner, cap closed with the help of screwable sealing plug
Housing form	E:	Angular form
	D:	Straight form
Option	SF:	Valve in „silicon-free“ design at an additional cost of € 4.50 per valve



Size	R	L	L ₁	H		K		S	
				H ₁ =	D ₁ =	H ₂ =	H ₃ =		
DN 10	3/8"	72,5	32,5	89	70	89	94		
DN 15	1/2"	72,5	32,5	89	70	89	94		
DN 20	3/4"	83	37,5	90	70	90	95		
DN 25	1"	99	45	103	75		108		
DN 32	1 1/4"	115	52,5	111	75		118		

Manual Discharge Valve PN 10

Type	Material Seat/Cone	Design	Port	Actuating design	Housing form	3/8"		1/2"		3/4"		1"		1 1/4"		Dimensional drawing
						Item no.	Price [EUR]	Item no.	Price [EUR]	Item no.	Price [EUR]	Item no.	Price [EUR]	Item no.	Price [EUR]	
156				H	E	10081	62,30	10082	62,30	10083	69,10	10084	91,90	10085	125,70	8A
156				H	D	10101	66,50	10102	66,50	10103	74,30	10104	98,60	10105	136,30	7A
156				S	E	10091	62,30	10092	62,30	10093	69,10	10094	91,90	10095	125,70	8C
156				S	D	10111	66,50	10112	66,50	10113	74,30	10114	98,60	10115	136,30	7C
156				SG	E	10161	65,00	10162	65,00	10163	71,70	10164	95,50	10165	129,30	8C
156				SG	D	10171	68,70	10172	68,70	10173	76,80	10174	101,60	10175	139,60	7C
156			FD	H	D	10721	82,50	10722	82,50	10723	93,50	10724	122,60	—	—	9A
156			FD	S	D	10731	82,50	10732	82,50	10733	93,50	10734	122,60	—	—	9C
156		BM		H	D	10441	69,10	10442	69,10	10443	76,90	10444	101,70	10445	140,20	7A
156		BM		S	D	10451	69,10	10452	69,10	10453	76,90	10454	101,70	10455	140,20	7C
156	NIRO			H	E	10281	75,80	10282	75,80	10283	84,70	10284	113,30	10285	154,50	8A
156	NIRO			H	D	10301	80,00	10302	80,00	10303	89,90	10304	119,70	10305	164,70	7A
156	NIRO			S	E	10291	75,80	10292	75,80	10293	84,70	10294	113,30	10295	154,50	8C
156	NIRO			S	D	10311	80,00	10312	80,00	10313	89,90	10314	119,70	10315	164,70	7C
156	NIRO		FD	H	D	10761	95,80	10762	95,80	10763	109,60	10764	143,90	—	—	9A
156	NIRO		FD	S	D	10771	95,80	10772	95,80	10773	109,60	10774	143,90	—	—	9C

Standard valves: Bold

Custom-made valves: Normal

The background is a dark blue color with a subtle, repeating pattern of small, light blue circles. In the lower-left quadrant, there is a large, semi-transparent circle of the same dark blue color. Centered within this large circle is the word "ACCESSORIES" in a bold, white, sans-serif font.

ACCESSORIES

Threaded hose couplings for discharge valve PN 10

Type	3/8"		1/2"		3/4"		1"		1 1/4"	
	Item no.	Price [EUR]	Item no.	Price [EUR]	Item no.	Price [EUR]	Item no.	Price [EUR]	Item no.	Price [EUR]
SV 156	13901	15,70	13902	15,70	13903	21,00	13904	28,30	13905	38,70
SV 122 (for 156 FD)	13911	17,30	13912	17,30	13913	22,20	13914	29,70	—	—

Standard valves: Bold

Custom-made valves: Normal

Special spanner

Type	Item no.	Price [EUR]	Verwendung
ES 154	14042	27,40	Adjusting spanner for pre-adjustment of the manual control valves Figure 154
SS 154/120	14043	16,40	Socket spanner for the hand valves of the actuation guide of socket spanner (S)
SSZ 154/120	14045	21,90	Socket spanner combined with sealing plug spanner for the opening/closing of hand valves of the actuation guide, socket spanner with closed flap (SC)



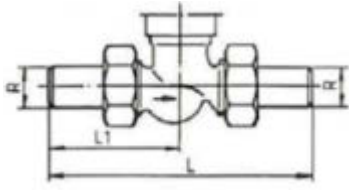
Manual Control Valve PN 25

Type 120

Control valve with proportional control, double cone, double spindle and safety cap for locking the upper valve section, as well as the packing gland.

With seat and cone made of NIRO suitable for high alkalinities (with a pH-value of 8 onward) and hot water with temperatures from 160°C to 225°C.

Housing material		Bronze CC480K (2.1050)
Seat/Cone material	BZ:	Bronze – for hot water max. 160°C, 25 bar
	NIRO:	Stainless steel – for hot water max. 225°C, 10 bar and high alkalinity
Ports		Flat sealing screw joint on both sides with welded nipple, seal and union nut
	LN:	On both sides hard soldered long welded nipple, each of them 150mm long
Actuating design	H:	Normal handwheel
	S:	Socket spanner
Housing form	E:	Angular form
	D:	Straight form
Option		Valve in „silicon-free“ design at an additional cost of € 4.50 per valve



Size	R	L	L ₁	H				S	
				H ₁ =	D =	H ₂ =			
DN 10	17	184	92	119	75	H ₂ =	117		
DN 15	21	184	92	119	75		117		
DN 20	26	194	97	123	75		121		
DN 25	33	209	104,5	133	85		132		
DN 32	42	229	114,5	140	85		136		
DN 40	48	264	132	154	100		153		

Manual Control Valve PN 25

Type	Material Seat/Cone	Port	Actuating design	Housing form	3/8"		1/2"		3/4"		1"		1 1/4"		1 1/2"		Dimensional drawing
					Item no.	Price [EUR]	Item no.	Price [EUR]	Item no.	Price [EUR]	Item no.	Price [EUR]	Item no.	Price [EUR]	Item no.	Price [EUR]	
120	BZ		H	E	11061	134,70	11062	134,70	11063	164,50	11064	220,70	11065	284,40	—	—	2A
120	BZ		H	D	11001	134,70	11002	134,70	11003	164,50	11004	220,70	11005	284,30	11006	484,90	1A
120	BZ		S	E	11071	134,70	11072	134,70	11073	164,50	11074	220,70	11075	284,40	—	—	2B
120	BZ		S	D	11011	134,70	11012	134,70	11013	164,50	11014	220,70	11015	284,40	11016	484,90	1B
120	BZ	LN	H	D	11201	153,80	11202	153,80	11203	189,00	11204	247,60	11205	327,30	11206	542,70	4A
120	BZ	LN	S	D	11211	153,80	11212	153,80	11213	189,00	11214	247,60	11215	327,30	11216	542,70	4B
120	NIRO		H	E	11161	148,10	11162	148,10	11163	180,10	11164	241,20	11165	312,90	—	—	2A
120	NIRO		H	D	11101	148,10	11102	148,10	11103	180,10	11104	241,20	11105	312,90	11106	518,00	1A
120	NIRO		S	E	11171	148,10	11172	148,10	11173	180,10	11174	241,20	11175	312,90	—	—	2B
120	NIRO		S	D	11111	148,10	11112	148,10	11113	180,10	11114	241,20	11115	312,90	11116	518,00	1B
120	NIRO	LN	H	D	11301	167,10	11302	167,10	11303	204,80	11304	269,20	11305	355,60	11306	575,50	4A
120	NIRO	LN	S	D	11311	167,10	11312	167,10	11313	204,80	11314	269,20	11315	355,60	11316	575,50	4B

Standard valves: Bold

Custom-made valves: Normal

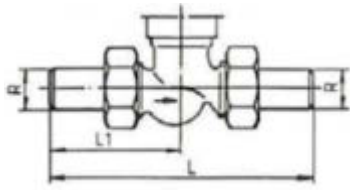


Manual Block Valve PN 25

Type 121

Block valve with safety cap for locking the upper valve section, as well as the packing gland. With seat and cone made of NIRO suitable for high alkalinities (with a pH-value of 8 onward) and hot water with temperatures from 160°C to 225°C or steam up to 180°C at max. 10 bar.

Housing material		Bronze CC480K (2.1050)
Seat/Cone material	BZ:	Bronze – for hot water max. 160°C, 25 bar
	NIRO:	Stainless steel – for hot water max. 225°C, 25 bar and steam max. 180°C, 10 bar
Ports		Flat sealing screw joint on both sides with welded nipple, seal and union nut
	LN:	On both sides hard soldered long welded nipple, each of them 150mm long
Actuating design	H:	Normal handwheel
	S:	Socket spanner
Housing form	E:	Angular form
	D:	Straight form
Option	SF:	Valve in „silicon-free“ design at an additional cost of € 4.50 per valve



Size	R	L	L ₁	H				S	
				H ₁ =		D =		H ₂ =	
DN 10	17	184	92	H ₁ =	119	D =	75	H ₂ =	117
DN 15	21	184	92		119		75		117
DN 20	26	194	97		123		75		121
DN 25	33	209	104,5		133		85		132
DN 32	42	229	114,5		140		85		136
DN 40	48	264	132		154		100		153

Manual Block Valve PN 25

Type	Material Seat/Cone	Port	Actuating design	Housing form	3/8"		1/2"		3/4"		1"		1 1/4"		1 1/2"		Dimensional drawing
					Item no.	Price [EUR]	Item no.	Price [EUR]	Item no.	Price [EUR]	Item no.	Price [EUR]	Item no.	Price [EUR]	Item no.	Price [EUR]	
121	BZ		H	E	11081	134,70	11082	134,70	11083	164,50	11084	220,70	11085	284,40	—	—	2A
121	BZ		H	D	11021	134,70	11022	134,70	11023	164,50	11024	220,70	11025	284,40	11026	484,90	1A
121	BZ		S	E	11091	134,70	11092	134,70	11093	164,50	11094	220,70	11095	284,40	—	—	2B
121	BZ		S	D	11031	134,70	11032	134,70	11033	164,50	11034	220,70	11035	284,40	11036	484,90	1B
121	BZ	LN	H	D	11221	153,80	11222	153,80	11223	189,00	11224	247,60	11225	327,30	11226	542,70	4A
121	BZ	LN	S	D	11231	153,80	11232	153,80	11233	189,00	11234	247,60	11235	327,30	11236	542,70	4B
121	NIRO		H	E	11181	148,10	11182	148,10	11183	180,10	11184	241,20	11185	312,90	—	—	2A
121	NIRO		H	D	11121	148,10	11122	148,10	11123	180,10	11124	241,20	11125	312,90	11126	518,00	1A
121	NIRO		S	E	11191	148,10	11192	148,10	11193	180,10	11194	241,20	11195	312,90	—	—	2B
121	NIRO		S	D	11131	148,10	11132	148,10	11133	180,10	11134	241,20	11135	312,90	11136	518,00	1B
121	NIRO	LN	H	D	11321	167,10	11322	167,10	11323	204,80	11324	269,20	11325	355,60	11326	575,50	4A
121	NIRO	LN	S	D	11331	167,10	11332	167,10	11333	204,80	11334	269,20	11335	355,60	11336	575,50	4B

Standard valves: Bold
 Custom-made valves: Normal

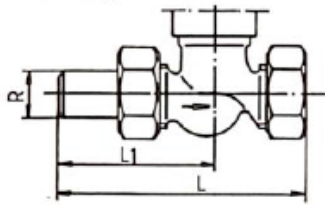


Manual Discharge Valve PN 25

Type 122

Discharge valve with safety cap for locking the upper valve section, as well as the packing gland. With seat and cone made of NIRO suitable for high alkalinities (with a pH-value of 8 onward) and hot water with temperatures from 160°C to 225°C or steam up to 180°C at max. 10 bar.

Housing material		Bronze CC480K (2.1050)
Seat/Cone material	BZ:	Bronze – for hot water max. 160°C, 25 bar
	NIRO:	Stainless steel – for hot water max. 225°C, 25 bar or steam max. 180°C, 10 bar
Ports	Inlet:	flat sealing screw joint with welded nipple, seal and union nut
	Outlet:	is provided with a sealing cap
	LN:	Inlet: Hard soldered long welded nipple, each of them 150mm long
	Outlet:	is provided with a sealing cap
Actuating design	H:	Normal handwheel
	S:	Socket spanner
Housing form	D:	Straight form
Option	SF:	Valve in „silicon-free“ design at an additional cost of € 4.50 per valve



Size	R	L	L ₁	H				S	
				H ₁ =		D =		H ₂ =	
DN 10	17	137,5	92	H ₁ =	119	D =	75	H ₂ =	117
DN 15	21	137,5	92		119		75		117
DN 20	26	149	97		123		75		121
DN 25	33	164	104,5		133		85		132
DN 32	42	185	114,5		140		85		136
DN 40	48	211	132		154		100		153

Manual Discharge Valve PN 25

Type	Material Seat/Cone	Port	Actuating design	Housing form	3/8"		1/2"		3/4"		1"		1 1/4"		1 1/2"		Dimensional drawing
					Item no.	Price [EUR]	Item no.	Price [EUR]	Item no.	Price [EUR]	Item no.	Price [EUR]	Item no.	Price [EUR]	Item no.	Price [EUR]	
122	BZ		H	D	11041	134,70	11042	134,70	11043	164,50	11044	220,70	11045	284,40	11046	484,90	7A
122	BZ		S	D	11051	134,70	11052	134,70	11053	164,50	11054	220,70	11055	284,40	11056	484,90	7B
122	BZ	LN	H	D	11241	153,80	11242	153,80	11243	189,00	11244	247,60	11245	327,30	11246	542,70	4A/7A
122	BZ	LN	S	D	11251	153,80	11252	153,80	11253	189,00	11254	247,60	11255	327,30	11256	542,70	4B/7B
122	NIRO		H	D	11141	148,10	11142	148,10	11143	180,10	11144	241,20	11145	312,90	11146	518,00	7A
122	NIRO		S	D	11151	148,10	11152	148,10	11153	180,10	11154	241,20	11155	312,90	11156	518,00	7B
122	NIRO	LN	H	D	11341	167,10	11342	167,10	11343	204,80	11344	269,20	11345	355,60	11346	575,50	4A/7A
122	NIRO	LN	S	D	11351	167,10	11352	167,10	11353	204,80	11354	269,20	11355	355,60	11356	575,50	4B/7B

Standard valves: Bold
 Custom-made valves: Normal

The image features a dark blue background with a subtle, repeating pattern of small, light blue circles. In the lower-left quadrant, there is a large, semi-transparent circle of a slightly darker shade of blue. Centered within this large circle is the word "ACCESSORIES" in a bold, white, sans-serif font.

ACCESSORIES

Threaded hose coupling for discharge valve PN 25 and PN 40

Type	3/8"		1/2"		3/4"		1"		1 1/4"		1 1/2"	
	Item no.	Price [EUR]	Item no.	Price [EUR]	Item no.	Price [EUR]	Item no.	Price [EUR]	Item no.	Price [EUR]	Item no.	Price [EUR]
SV 122	13911	17,30	13912	17,30	13913	22,20	13914	29,70	13915	40,00	13916	48,80

Standard valves: Bold

Custom-made valves: Normal

Special spanner

Type	Item no.	Price [EUR]	Verwendung
ES 120	14040	27,40	Adjusting spanner for pre-adjustment of the manual control valves Figure 120
ES 124	14041	27,40	Socket spanner for the stroke limitation of the manual control valves Figure 124
SS 154/120	14043	16,40	Socket spanner for the hand valves of the actuation guide of socket spanner (S)



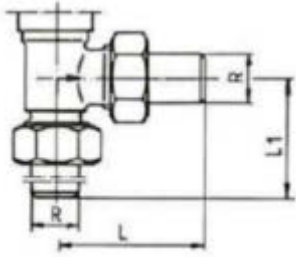
actuating design HW

Manual Control Valve PN 40

Type 123

Control valve with safety cap for locking the upper valve section, as well as the packing gland. Suitable for hot water and high-pressure steam up to 225°C, max. 25 bar or up to 120°C max. 40 bar.

Housing material		Bronze CC480K (2.1050)
Seat/Cone material	SOM:	Stainless steel, cone highly quenched and tempered
	SOMW:	Cone with soft packing
Ports		On both sides flat sealing screw joint with welded nipple, seal and union nut
	NF:	On both sides flat sealing screw joint with welded nipple, seal and union nut; with nut and spring
Actuating design	H:	Normal handwheel
	S:	Socket spanner
	AW:	Handwheel with thermal sleeve
Housing form	E:	Angular form
	D:	Straight form
Option	SF:	Valve in „silicon-free“ design at an additional cost of € 4.50 per valve



Size	R	L	L ₁	H				S	
				H ₁ =	D =	H ₂ =			
DN 10	17	92	87	106	75	H ₂ =	103		
DN 15	21	92	87	106	75		103		
DN 20	26	92	89,5	110	75		107		
DN 25	33	100	99	115	85		114		
DN 32	42	107	104	130	85		126		

Manual Control Valve PN 40

Type	Material Seat/Cone	Port	Actuating design	Housing form	3/8"		1/2"		3/4"		1"		1 1/4"		1 1/2"		Dimensional drawing
					Item no.	Price [EUR]	Item no.	Price [EUR]	Item no.	Price [EUR]	Item no.	Price [EUR]	Item no.	Price [EUR]	Item no.	Price [EUR]	
123	SOM		H	E	11521	173,10	11522	173,10	11523	211,70	11524	272,20	11525	353,80	—	—	2A
123	SOM		H	D	11441	173,10	11442	173,10	11443	211,70	11444	272,20	11445	353,80	11446	564,60	1A
123	SOM		S	E	11531	173,10	11532	173,10	11533	211,70	11534	264,20	11535	353,80	—	—	2B
123	SOM		S	D	11451	173,10	11452	173,10	11453	211,70	11454	264,20	11455	353,80	11456	564,60	1B
123	SOM	NF	H	D	14241	180,20	14242	180,20	14243	218,90	14244	271,30	14245	355,00	—	—	1A
123	SOM	NF	S	D	14251	180,20	14252	180,20	14253	218,90	14254	271,30	14255	355,00	—	—	1B

Boiler - Design

Packing gland with spring-loaded PTFE-sleeves; chrome-plated safety cap for upper valve section and packing gland

123	SOM		H	E	14461	173,10	14462	173,10	14463	211,70	14464	272,20	14465	353,80	—	—	2A
123	SOM		H	D	14451	173,10	14452	173,10	14453	211,70	14454	272,20	14455	353,80	14456	581,50	1A
123	SOM		HW	E	14481	206,30	14482	206,30	14483	244,50	—	—	—	—	—	—	2A
123	SOM		HW	D	14471	206,30	14472	206,30	14473	244,50	—	—	—	—	—	—	1A
123	SOMW		H	E	14421	195,40	14422	195,40	14423	233,80	14424	296,30	14425	386,60	—	—	2A
123	SOMW		H	D	14411	195,40	14412	195,40	14413	233,80	14414	296,30	14415	386,60	14416	627,00	1A
123	SOMW		HW	E	14441	228,40	14442	228,40	14443	266,90	—	—	—	—	—	—	2A
123	SOMW		HW	D	14431	228,40	14432	228,40	14433	266,90	—	—	—	—	—	—	1A

Standard valves: Bold

Custom-made valves: Normal

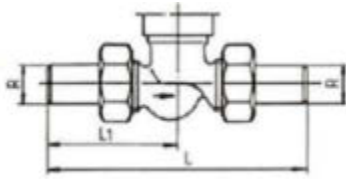


Manual Control Valve PN 40

Type 124

Control valve with safety cap for locking the upper valve section, as well as the packing gland and with additional stroke limitation. Suitable for hot water and high-pressure steam up to 225°C, max. 25 bar or up to 120°C max. 40 bar.

Housing material		Bronze CC480K (2.1050)
Seat/Cone material	SOM:	Stainless steel, cone highly quenched and tempered
Ports		On both sides flat sealing screw joint with welded nipple, seal and union nut NF: On both sides flat sealing screw joint with welded nipple, seal and union nut, with nut and spring
Actuating design	H:	Normal handwheel
Housing form	E:	Angular form
	D:	Straight form
Option	SF:	Valve in „silicon-free“ design at an additional cost of € 4.50 per valve



Size	R	L	L ₁	H				S	
				H ₁ =		D =			
DN 10	17	184	92	133	D =	75			
DN 15	21	184	92			75			
DN 20	26	194	97			75			
DN 25	33	209	104,5			85			

Manual Control Valve PN 40 with stroke limitation

Type	Material Seat/Cone	Port	Actuating design	Housing form	3/8"		1/2"		3/4"		1"		1 1/4"		1 1/2"		Dimensional drawing
					Item no.	Price [EUR]	Item no.	Price [EUR]	Item no.	Price [EUR]	Item no.	Price [EUR]	Item no.	Price [EUR]	Item no.	Price [EUR]	
124	SOM		H	E	11551	176,40	11552	176,40	11553	223,70	11554	291,00	—	—	—	—	6A
124	SOM		H	D	11471	176,40	11472	176,40	11473	223,70	11474	291,00	—	—	—	—	5A
124	SOM	NF	H	D	14261	183,30	14262	183,30	14263	231,10	14264	298,20	—	—	—	—	5A

Standard valves: Bold
 Custom-made valves: Normal

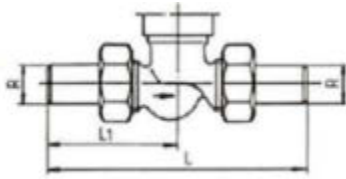


Manual Block Valve PN 40

Type 121

Block valve with safety cap for locking the upper valve section, as well as the packing gland. Suitable for hot water and high-pressure steam up to 225°C, max. 25 bar or up to 120°C max. 40 bar.

Housing material		Bronze CC480K (2.1050)
Seat/Cone material	SOM:	Stainless steel, cone highly quenched and tempered
Ports		On both sides flat sealing screw joint with welded nipple, seal and union nut
	NF:	On both sides flat sealing screw joint with welded nipple, seal and union nut; with nut and spring
Actuating design	H:	Normal handwheel
	S:	Socket spanner
Housing form	E:	Angular form
	D:	Straight form
Option	SF:	Valve in „silicon-free“ design at an additional cost of € 4.50 per valve



Size	R	L	L ₁	H			S	
				H ₁ =	D =	H ₂ =		
DN 10	17	184	92	119	75	H ₂ =	117	
DN 15	21	184	92	119	75		117	
DN 20	26	194	97	123	75		121	
DN 25	33	209	104,5	133	85		132	
DN 32	42	229	114,5	140	85		136	
DN 40	48	264	132	154	100		153	

Manual Block Valve PN 40

Type	Material Seat/Cone	Port	Actuating design	Housing form	3/8"		1/2"		3/4"		1"		1 1/4"		1 1/2"		Dimensional drawing
					Item no.	Price [EUR]	Item no.	Price [EUR]	Item no.	Price [EUR]	Item no.	Price [EUR]	Item no.	Price [EUR]	Item no.	Price [EUR]	
121	SOM		H	E	11501	173,10	11502	173,10	11503	211,60	11504	272,20	11505	353,80	—	—	2A
121	SOM		H	D	11401	173,10	11402	173,10	11403	211,60	11404	272,20	11405	353,80	11406	581,50	1A
121	SOM		S	E	11511	173,10	11512	173,10	11513	211,60	11514	272,20	11515	353,80	—	—	2B
121	SOM		S	D	11411	173,10	11412	173,10	11413	211,60	11414	272,20	11415	353,80	11416	581,50	1B
121	SOM	NF	H	D	14201	182,00	14202	182,00	14203	218,90	14204	279,60	14205	365,70	—	—	1A
121	SOM	NF	S	D	14211	182,00	14212	182,00	14213	218,90	14214	279,60	14215	365,70	—	—	1B

Standard valves: Bold

Custom-made valves: Normal

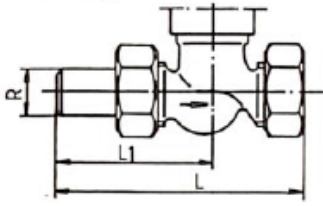


Manual Discharge Valve PN 40

Type 122

Discharge valve with safety cap for locking the upper valve section, as well as the packing gland. Suitable for hot water and high-pressure steam up to 225°C, max. 25 bar or up to 120°C max. 40 bar.

Housing material		Bronze CC480K (2.1050)
Seat/Cone material	SOM:	Stainless steel, cone highly quenched and tempered
Ports	Inlet:	flat sealing screw joint with welded nipple, seal and union nut
	Outlet:	is provided with a sealing cap
	NF:	Inlet: flat sealing screw joint with welded nipple, seal and union nut; with nut and spring
	Outlet:	is provided with a sealing cap
Actuating design	H:	Normal handwheel
	S:	Socket spanner
Housing form	D:	Straight form
Option	SF:	Valve in „silicon-free“ design at an additional cost of € 4.50 per valve



Size	R	L	L ₁	H			S	
				H ₁ =	D =	H ₂ =		
DN 10	17	137,5	92	119	75	H ₂ =	117	
DN 15	21	137,5	92	119	75		117	
DN 20	26	149	97	123	75		121	
DN 25	33	164	104,5	133	85		132	
DN 32	42	185	114,5	140	85		136	
DN 40	48	211	132	154	100		153	

Manual Discharge Valve PN 40

Type	Material Seat/Cone	Port	Actuating design	Housing form	3/8"		1/2"		3/4"		1"		1 1/4"		1 1/2"		Dimensional drawing
					Item no.	Price [EUR]	Item no.	Price [EUR]	Item no.	Price [EUR]	Item no.	Price [EUR]	Item no.	Price [EUR]	Item no.	Price [EUR]	
122	SOM		H	D	11421	173,10	11422	173,10	11423	211,70	11424	272,20	11425	353,80	11426	581,50	7A
122	SOM		S	D	11431	173,10	11432	173,10	11433	211,70	11434	272,20	11435	353,80	11436	581,50	7B
122	SOM	NF	H	D	14221	180,20	14222	180,20	14223	218,90	14224	279,60	14225	365,70	—	—	7A
122	SOM	NF	S	D	14231	180,20	14232	180,20	14233	218,90	14234	279,60	14235	365,70	—	—	7B

Standard valves: Bold

Custom-made valves: Normal

The image features a dark blue background with a subtle, repeating pattern of small, light blue circles. In the lower-left quadrant, there is a large, semi-transparent circle of the same dark blue color. Centered within this large circle is the word "ACCESSORIES" in a bold, white, sans-serif font.

ACCESSORIES

Threaded hose coupling for discharge valve PN 40

Type	3/8"		1/2"		3/4"		1"		1 1/4"		1 1/2"	
	Item no.	Price [EUR]	Item no.	Price [EUR]	Item no.	Price [EUR]	Item no.	Price [EUR]	Item no.	Price [EUR]	Item no.	Price [EUR]
SV 122	13911	17,30	13912	17,30	13913	22,20	13914	29,70	13915	40,00	13916	48,80

Standard valves: Bold

Custom-made valves: Normal

Special spanner

Type	Item no.	Price [EUR]	Use
SS 154/120	14043	16,40	Socket spanner for the hand valves of the actuation guide of socket spanner (S)

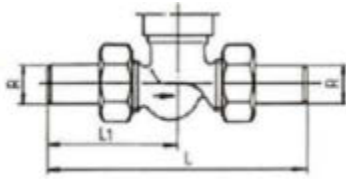


Manual Control Valve PN 63

Type 123 GGG

Control valve with safety cap for locking the upper valve section, as well as the packing gland. Suitable for hot water, high-pressure steam and other media, e.g. heat transfer oil, with increased demands of up to 350°C, max. 40 bar or up to 120°C, max. 63 bar.

Housing material		GGG 40
Seat/Cone material	SOM:	Stainless steel, cone highly quenched and tempered
Ports	NF:	Flat sealing screw joint on both sides with welded nipple, seal and union nut, with nut and spring
Actuating design	H:	Normal handwheel
	S:	Socket spanner
Housing form	E:	Angular form
	D:	Straight form
Option	SF:	Valve in „silicon-free“ design at an additional cost of € 4.50 per valve



Size	R	L	L ₁	H				S	
				H ₁ =	D =	H ₂ =			
DN 10	17	184	92				119	75	117
DN 15	21	184	92	119	75				
DN 20	26	194	97	123	75				
DN 25	33	209	104,5	133	85				
DN 32	42	229	114,5	140	85				
DN 40	48	264	132	154	100				

Control Valve PN 63

Type	Material Seat/Cone	Port	Actuating design	Housing form	3/8"		1/2"		3/4"		1"		1 1/4"		1 1/2"		Dimensional drawing
					Item no.	Price [EUR]	Item no.	Price [EUR]	Item no.	Price [EUR]	Item no.	Price [EUR]	Item no.	Price [EUR]			
123 GGG	SOM	NF	H	E	14321	190,10	14322	190,10	14323	231,60	14324	289,10	14325	376,40	—	—	2A
123 GGG	SOM	NF	H	D	14331	190,10	14332	190,10	14333	231,60	14334	289,10	14335	376,40	14336	620,30	1A

Actuating design S possible

Standard valves: Bold

Custom-made valves: Normal

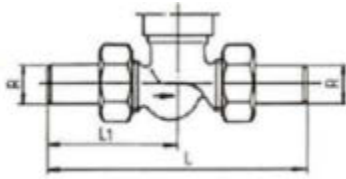


Manual Block Valve PN 63

Type 121 GGG

Block valve with safety cap for locking the upper valve section, as well as the packing gland. Suitable for hot water, high-pressure steam and other media, e.g. heat transfer oil, with increased demands of up to 350°C, max. 40 bar or up to 120°C, max. 63 bar.

Housing material		GGG 40
Seat/Cone material	SOM:	Stainless steel, cone highly quenched and tempered
Ports	NF:	Flat sealing screw joint on both sides with welded nipple, seal and union nut; with nut and spring
Actuating design	H:	Normal handwheel
	S:	Socket spanner
Housing form	E:	Angular form
	D:	Straight form
Option	SF:	Valve in „silicon-free“ design at an additional cost of € 4.50 per valve



Size	R	L	L ₁	H				S	
				H ₁ =		D =		H ₂ =	
DN 10	17	184	92	H ₁ =	119	D =	75	H ₂ =	117
DN 15	21	184	92		119		75		117
DN 20	26	194	97		123		75		121
DN 25	33	209	104,5		133		85		132
DN 32	42	229	114,5		140		85		136
DN 40	48	264	132		154		100		153

Block Valve PN 63

Type	Material Seat/Cone	Port	Actuating design	Housing form	3/8"		1/2"		3/4"		1"		1 1/4"		1 1/2"		Dimensional drawing
					Item no.	Price [EUR]	Item no.	Price [EUR]	Item no.	Price [EUR]	Item no.	Price [EUR]	Item no.	Price [EUR]	Item no.	Price [EUR]	
121 GGG	SOM	NF	H	D	11601	190,10	11602	190,10	11603	231,60	11604	289,10	11605	376,40	11606	620,30	
121 GGG	SOM	NF	S	D	11611	190,10	11612	190,10	11613	231,60	11614	289,10	11615	376,40	11616	620,30	

Corner block valve upon request

Standard valves: Bold

Custom-made valves: Normal

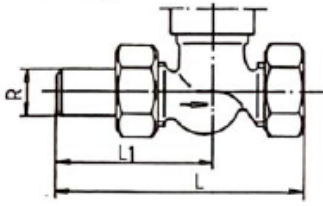


Manual Discharge Valve PN 63

Type 122 GGG

Discharge valve with safety cap for locking the upper valve section, as well as the packing gland. Suitable for hot water, high-pressure steam and other media, e.g. heat transfer oil, with increased demands of up to 350°C, max. 40 bar or up to 120°C, max. 63 bar.

Housing material		GGG 40
Seat/Cone material	SOM:	Stainless steel, cone highly quenched and tempered
Ports	NF:	Inlet: flat sealing screw joint with welded nipple, seal and union nut; with nut and spring Outlet: with sealing cap
Actuating design	H:	Normal handwheel
	S:	Socket spanner
Housing form	D:	Straight form
Option	SF:	Valve in „silicon-free“ design at an additional cost of € 4.50 per valve



Size	R	L	L ₁	H				S	
				H ₁ =		D =		H ₂ =	
DN 10	17	137,5	92	H ₁ =	119	D =	75	H ₂ =	117
DN 15	21	137,5	92		119		75		117
DN 20	26	149	97		123		75		121
DN 25	33	164	104,5		133		85		132
DN 32	42	185	114,5		140		85		136
DN 40	48	211	132		154		100		153

Discharge Valve PN 63

Type	Material Seat/Cone	Port	Actuating design	Housing form	3/8"		1/2"		3/4"		1"		1 1/4"		1 1/2"		Dimensional drawing
					Item no.	Price [EUR]	Item no.	Price [EUR]	Item no.	Price [EUR]	Item no.	Price [EUR]	Item no.	Price [EUR]	Item no.	Price [EUR]	
122 GGG	SOM	NF	H	D	11621	190,10	11622	190,10	11623	231,60	11624	289,10	11625	376,40	11626	620,30	
122 GGG	SOM	NF	S	D	11631	190,10	11632	190,10	11633	231,60	11634	289,10	11635	376,40	11636	620,30	

Corner discharge valve upon request

Standard valves: Bold

Custom-made valves: Normal

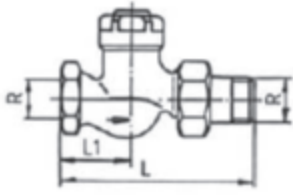


Thermostat Valve PN 10

Type 154T

Thermostat valve for warm water up to 120°C max. 8 bar. In case of low-pressure steam up to 0.5 bar, max. 110°C. With seat and cone made of NIRO suitable for high alkalinities (with a pH-value of 8 onward) and steam up to 110°C / max 0.5 bar. The O-ring connector can be replaced without discharging the system.

Housing material		Red brass (Rg 5)
Seat/Cone material	NIRO:	Red brass / brass and soft packing Stainless steel and soft packing Cone seal is not mineral oil resistant
Design	VE:	Normal design (without continuously adjustable) Presetting continuously adjustable presetting (please make a note of Kv-values)
Ports	Inlet: Outlet: FD:	Hexagon coupling with female thread Conical sealing screw joint with male thread nipple flat sealing screw joint on both sides, with welded nipple, seal and union nut
Housing form	E: D:	Angular form Straight form
Thermostat sensor		Separate order must be placed for the same! (see pages 46 and 47)
Option	SF:	Valve in „silicon-free“ design at an additional cost of € 4.50 per valve



Size	R	L	L ₁	Fixed sensor		Remote sensor		Distance transmitter	
				H ₁ =	H ₂ =	H ₃ =			
DN 10	3/8"	98	32,5	94	97	74			
DN 15	1/2"	98	32,5	94	97	74			
DN 20	3/4"	107	37,5	97,5	100,5	77,5			
DN 25	1"	129	45	130	133	110			

Thermostat Valve PN 10

Type	Material Seat/Cone	Design	Port	Housing form	3/8"		1/2"		3/4"		1"		Sensor Number	Dimensional drawing
					Item no.	Price [EUR]	Item no.	Price [EUR]	Item no.	Price [EUR]	Item no.	Price [EUR]		
154 T				E	12201	24,70	12202	25,60	12203	30,10	—	—	1	2
154 T				D	12211	24,70	12212	25,60	12213	30,10	—	—	1	1
154 T	NIRO			E	12241	44,50	12242	45,70	12243	51,90	12244	107,10	2	6
154 T	NIRO			D	12251	44,50	12252	45,70	12253	51,90	12254	107,10	2	5
154 T	NIRO		FD	D	12996	59,70	12997	60,50	12998	70,50	—	—	2	7
154 T		VE		E	12221	36,30	12222	37,00	12223	41,50	—	—	2	6
154 T		VE		D	12231	36,30	12232	37,00	12233	41,50	—	—	2	5
154 T	NIRO	VE		E	12261	56,00	12262	57,10	12263	63,10	—	—	2	6
154 T	NIRO	VE		D	12271	56,00	12272	57,10	12273	63,10	—	—	2	5

Standard valves: Bold
Custom-made valves: Normal

Special spanner

Type	Item no.	Price [EUR]	Verwendung
MST	14060	13,60	Installation spanner for the sensor no.1 of the thermostat valves type 154 T (without NIRO or VE)
IS-T	14061	0,60	Allen Key (hexagon socket screw spanner) for the stud screw of the thermostat sensor
VE-T 154	14062	23,80	Pre-setting spanner for thermostat valves and retrofit kits with pre-setting (VE)



Retrofit kit for manual valve

Type 154 PN 10

Retrofit kit for changing manual valves Type 154 for operation with thermostat for warm water up to 120°C max. 8 bar. In case of low-pressure steam up to 0.5 bar, max. 110°C. With seat and cone made of NIRO suitable for high alkalinities (with a pH-value of 8 onward) and steam up to 110°C / max 0.5 bar. The O-ring connector can be replaced without discharging the system.

Seat/Cone material

Brass and soft packing
 NIRO: Stainless steel and soft packing
 Cone seal is not mineral oil resistant

Design

Normal design
 VE: Continuously adjustable presetting
 (please make a note of Kv-values)

Thermostat sensor

Separate order must be placed for the same!
 (see pages 46 and 47)

Option

SF: Valve in „silicon-free“ design at an additional cost of
 € 4.50 per valve

Retrofit kit for manual valve Type 154 PN 10

Type	Material Seat/Cone	Design	Port	Housing form	3/8"		1/2"		3/4"		1"		Sensor Number	Dimensional drawing
					Item no.	Price [EUR]	Item no.	Price [EUR]	Item no.	Price [EUR]	Item no.	Price [EUR]		
154 U	NIRO				12751	26,60	12752	26,60	—	—	—	—	2	5/6
154 U	NIRO	VE			12761	38,20	12762	38,20	12763	47,40	—	—	2	5/6
154 U		VE			12771	30,30	12772	30,30	12773	39,40	—	—		

Standard valves: Bold

Custom-made valves: Normal

Special spanner

Type	Item no.	Price [EUR]	Use
VE-T 154	14062	23,80	Pre-setting spanner for thermostat valves and retrofit kits with pre-setting [VE]

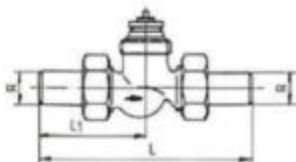


Thermostat Valve PN 25

Types 126T/126 HT/126 HTT

Thermostat valve for hot water up to 180°C max. 10 bar For steam max 5.5 bar overpressure and max. 110°C. With seat and cone made of NIRO suitable for high alkalinities (with a pH-value of 8 onward) and steam. The O-ring connector can be replaced without discharging the system.

Design	126T 126T/VE 126T/VE/NIRO 126HT 126HT/VE 126HT/VE/NIRO 126HTT 126HTT/6/1	for hot water up to 120°C, for steam max. 1 bar overpressure for hot water up to 120°C for steam max.1 bar overpressure for hot water up to 160°C, for steam max. 3 bar overpressure for hot water up to 160°C for steam max.3 bar overpressure for hot water up to 180°C, for steam max. 5.5 bar overpressure For steam from 160°C up to max. 200°C
Housing material		Bronze CC480K (2.1050)
Seat/Cone material	NIRO:	Bronze / Brass and soft packing Stainless steel and soft packing Cone seal is not mineral oil resistant
Design		Normal design, i.e. seat diameter proportionate to nominal diameter
	6/10/12: VE:	Seat diameter approx. 6 mm/10 mm/12 mm Continuously adjustable presetting (please make a note of Kv-values)
Ports		flat sealing screw joint on both sides, with welded nipple, seal and union nut
Dirt filter in inlet		The sealing surfaces are made of soft material. A filter in the inlet of valves increases the durability. As a standard, for Type 126 HTT, the filter is included in the scope of delivery.
Housing form	E: D:	Angular form Straight form
Thermostat sensor		Separate order must be placed for the same! (see pages 46 and 47)
Option	SF:	Valve in „silicon-free“ design at an additional cost of € 4.50 per valve.



Size	R	L	L ₁	Fixed sensor		Remote sensor		Distance transmitter	
				H ₁ =		H ₂ =		H ₃ =	
DN 10	17	184	92		120		123,5		100,5
DN 15	21	184	92		120		123,5		100,5
DN 20	26	194	97		122		125,5		102,5

Thermostat Valve PN 25

Type	Material Seat/Cone	Design	Housing form	3/8"		1/2"		3/4"		Sensor Number	Dimensional drawing
				Item no.	Price [EUR]	Item no.	Price [EUR]	Item no.	Price [EUR]		
126 T		VE	E	13021	162,10	13022	162,10	13023	172,40	3	2
126 T		VE	D	13031	162,10	13032	162,10	13033	172,40	3	1
126 T	NIRO		E	13041	164,00	13042	164,00	13043	176,30	3	2
126 T	NIRO		D	13051	164,00	13052	164,00	13053	176,30	3	1
126 T	NIRO	10	E	—	—	13048	164,00	—	—	3	2
126 T	NIRO	10	D	—	—	13058	164,00	—	—	3	1
126 T	NIRO	12	E	—	—	—	—	13045	176,30	3	2
126 T	NIRO	12	D	—	—	—	—	13055	176,30	3	1
126 T	NIRO	VE	E	13061	182,40	13062	182,40	13063	194,20	3	2
126 T	NIRO	VE	D	13071	182,40	13072	182,40	13073	194,20	3	1
126 HT		VE	E	13221	166,80	13222	166,80	13223	189,80	4	4
126 HT		VE	D	13231	166,80	13232	166,80	13233	189,80	4	3
126 HT	NIRO		E	13241	169,00	13242	169,00	13243	193,90	4	4
126 HT	NIRO		D	13251	169,00	13252	169,00	13253	193,90	4	3
126 HT	NIRO	10	E	—	—	13247	169,00	—	—	4	4
126 HT	NIRO	10	D	—	—	13257	169,00	—	—	4	3
126 HT	NIRO	12	E	—	—	—	—	13245	193,90	4	4
126 HT	NIRO	12	D	—	—	—	—	13255	193,90	4	3
126 HT	NIRO	VE	E	13261	186,70	13262	186,70	13263	211,90	4	4
126 HT	NIRO	VE	D	13271	186,70	13272	186,70	13273	211,90	4	3
126 HTT	NIRO	6	E	13421	175,50	13422	175,50	13423	200,60	5	6
126 HTT	NIRO	6	D	13431	169,30	13432	175,50	13433	200,60	5	5
126 HTT	NIRO	6/1	E	—	—	13472	181,90	13473	210,50	5	6
126 HTT	NIRO	6/1	D	—	—	13470	181,90	13463	210,50	5	5
Filter				14031	6,60	14032	6,60	14033	7,00		

Standard valves: Bold
 Custom-made valves: Normal

Special spanner

Type	Item no.	Price [EUR]	Use
IS-T	14061	0,60	Allen Key (hexagon socket screw spanner) for the stud screw of the thermostat sensor
VE-T 120	14063	23,80	Pre-setting spanner for thermostat valves PN 25 and retrofit kits with presetting (VE)



Retrofit kit for manual valve

Type 120 PN 25

Retrofit kit for changing manual valves Type 120 for operation with thermostat for warm water up to 160°C max. 10 bar. With seat and cone made of NIRO suitable for high alkalinities (with a pH-value of 8 onward) and steam max. 3 bar overpressure. The O-ring connector can be replaced without discharging the system.

Design	120U:	Retrofit kit for hot water up to 120°C, for steam max. 1 bar / for changing manual valves Type 120 for operation with thermostat
	120HU:	Retrofit kit for hot water up to 160°C, for steam max. 3 bar / for changing manual valves Type 120 for operation with thermostat
Seat/Cone material	NIRO:	Stainless steel and soft packing Cone seal is not mineral oil resistant
Dirt filter in inlet		The sealing surfaces are made of soft material. A filter in the inlet of valves increases the durability.
Thermostat sensor		Separate order must be placed for the same! (see pages 46 and 47)
Option	SF:	Valve in „silicon-free“ design at an additional cost of € 4.50 per valve

Retrofit kit for manual valve Type 120 PN 25

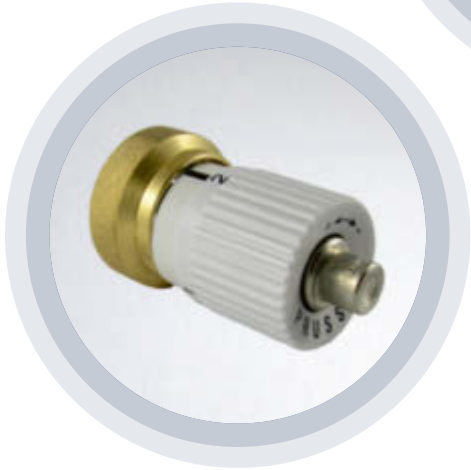
Type	Material Seat/Cone	Design	Housing	3/8"		1/2"		3/4"		Sensor Number	Dimensional drawing
				Item no.	Price [EUR]	Item no.	Price [EUR]	Item no.	Price [EUR]		
120 U	NIRO			13511	116,70	13512	116,70	—	—	3	1/2
120 HU	NIRO			13571	121,00	13572	121,00	—	—	4	3/4
Filter				14031	6,60	14032	6,60	14033	7,00		

Standard valves: Bold

Custom-made valves: Normal

Special spanner

Type	Item no.	Price [EUR]	Use
VE-T 120	14063	23,80	Pre-setting spanner for thermostat valves PN 25 and retrofit kits with pre-setting (VE)



Thermostat sensor

For Thermostat valves and accessories

Thermostat sensor with continuously adjustable setting from „closed“ via „Frost protection“ to 8 up to 28°C. The setting range can be restricted through a banking pin or a setting can be blocked. A protective sleeve, which protects against damage and theft, can be provided for the fixed sensor. The position of the banking pins cannot be changed without removing the protective sleeve. The capillary tubes of the fixed sensor and the distance transmitter are 2 m, 4 m or 6 m long. Can be delivered in lengths 4 m and 6 m upon request.

Type

Fixed sensor:	The sensor and the temperature preselector are located at the valve
Remote sensor:	The sensor is connected through a capillary tube with the temperature preselector, which is located directly at the valve
Distance transmitter:	The distance transmitter allows the installation of the fixed sensor away from the valve. The connection is done via a capillary tube.

Protective Sleeve

S:	Normal length – impedes adjusting the sensor
SK:	Shorter length – enables adjusting the sensor

Option

SF:	Valve in „silicon-free“ design at an additional cost of € 4.50 per valve
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Thermostat sensor

Type	Sensor no.	Protective Sleeve	Capillary tube length	154 T	154 T/VE o. NRIO 154 U	126 T 120 U	126 HT 120 HU	126 HTT	Article no.	Price [EUR]	Dimensional drawing
Fixed sensor	1			x					14071	17,10	A
Fixed sensor	2				x				14072	17,10	A
Fixed sensor	3					x			14073	17,10	A
Fixed sensor	4						x		14074	56,30	A
Fixed sensor	5							x	14075	73,30	A
Fixed sensor	1	S		x					140711	27,30	A
Fixed sensor	2	S			x				140721	27,30	A
Fixed sensor	3	S				x			140731	27,30	A
Fixed sensor	4	S					x		140741	83,50	A
Fixed sensor	5	S						x	140751	83,50	A
Fixed sensor	1	SK		x					140712	27,30	A
Fixed sensor	2	SK			x				140722	27,30	A
Fixed sensor	3	SK				x			140732	27,30	A
Fixed sensor	4	SK					x		140742	83,50	A
Fixed sensor	5	SK						x	140752	83,50	A
Remote sensor	1		2 m	x					14081	48,10	B
Remote sensor	2		2 m		x				14082	48,10	B
Remote sensor	3		2 m			x			14083	48,10	B
Remote sensor	4		2 m				x		14084	87,10	B
Remote sensor	5		2 m					x	14085	103,90	B
Remote sensor	1		4 m	x					140814	55,90	B
Remote sensor	2		4 m		x				140824	56,00	B
Remote sensor	3		4 m			x			140834	55,90	B
Remote sensor	4		4 m				x		140844	95,20	B
Remote sensor	5		4 m					x	140854	112,00	B
Remote sensor	1		6 m	x					140816	64,40	B
Remote sensor	2		6 m		x				140826	64,40	B
Remote sensor	3		6 m			x			140836	64,40	B
Remote sensor	4		6 m				x		140846	103,50	B
Remote sensor	5		6 m					x	140856	120,50	B
Distance transmitter			2 m						14006	44,50	C
Distance transmitter			4 m						140064	52,60	C
Distance transmitter			6 m						140066	60,80	C

Protective sleeves for thermostat valves and retrofit kits for retrofitting

Type	154 T	154 T/VE o. NRIO 154 U	126 T 120 U	126 HT 120 HU	126 HTT	Article no.	Price [EUR]
S for Sensor 1, 2, 5	x	x			x	140211	12,00
S for Sensor 3			x			140231	12,00
S for Sensor 4				x		140241	68,00
SK for Sensor 1, 2, 5	x	x			x	140212	12,00
SK for Sensor 3			x			140232	12,00
SK for Sensor 4				x		140242	68,00

Standard valves: Bold
Custom-made valves: Normal



Discharge Valve

PN 25 und PN 40

For hot water, high pressure steam and other media like heat transfer oil for example.



Type

- L 179: Breather for hot water up to 225°C, 25 bar
for steam up to 120°C, 32 bar
for oil up to 225°C, 25 bar
Housing and weld-on nozzle of steel
Shut-off device: Twin cone secured using an additional cap
Seat made of NIRO, cap made of brass
- L 179 VA: Design similar to L 179, however nozzle, cap and seat made of chrome-nickel steel (for acid-proof use), for hot water, steam and oil up to max.380°C, 40 bar
- L 183 Breather for hot water and oil up to 225°C, 25 bar
for steam up to 184°C, 10 bar
Housing made of steel with weld-on nozzle
Seat and cone made of NIRO

Cone material

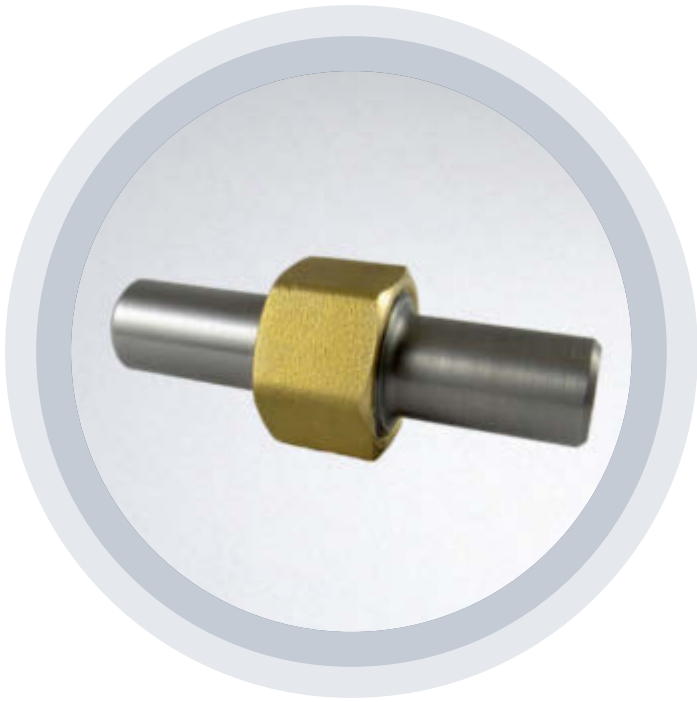
NIRO: Stainless steel

Design Cap/Cone

SV: L179: Cone with hose nipple and matching sealing cap

Option

SF: Valve in „silicon-free“ design at an additional cost of € 4.50 per valve

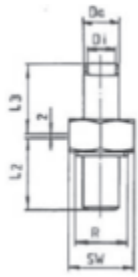


Radiator screw joint PN 25 and PN 40

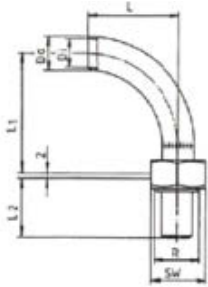
Type RV 191

Radiator screw joint PN 25 and PN 40 consisting of screw piece with welding end, union nut, sealing ring and welded nipple.

Material		Steel
Housing form	E:	Angular form
	D:	Straight form
Option	SF:	Radiator screw joint in „silicon-free“ design at an additional cost of € 4.50 per valve



Size	H	L	L ₁	L ₂	L ₃	R	SW	SW ₁	GT	GL	Di	Da
DN 10				50	50	7/8"	36				11	17
DN 15				50	50	7/8"	36				14	21
DN 20				50	50	1 1/8"	46				20	26
DN 25				60	50	1 1/4"	50				24	33
DN 32				60	50	1 3/4"	64				33	42
DN 40				66	60	2"	70				39	48



Size	H	L	L ₁	L ₂	L ₃	R	SW	SW ₁	GT	GL	Di	Da
DN 10		50	75	50		7/8"	36				11	17
DN 15		65	85	50		7/8"	36				14	21
DN 20		65	85	50		1 1/8"	46				20	26
DN 25		75	95	60		1 1/4"	50				24	33
DN 32		100	120	60		1 3/4"	64				33	42
DN 40		120	145	66		2"	70				39	48

Radiator screw joint PN 25 and PN 40

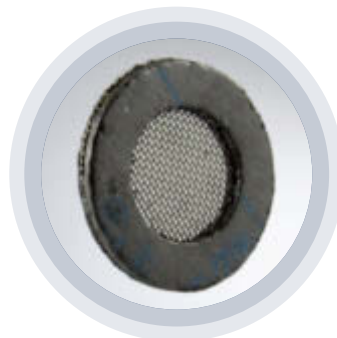
Type	Housing form	3/8"		1/2"		3/4"		1"		1 1/4"		1 1/2"		Dimensional drawing
		Item no.	Price [EUR]	Item no.	Price [EUR]	Item no.	Price [EUR]	Item no.	Price [EUR]	Item no.	Price [EUR]	Item no.	Price [EUR]	
RV 191	E	13821	31,90	13822	31,90	13823	45,70	13824	61,20	13825	81,30	13826	100,60	4
RV 191	D	13831	14,50	13832	14,50	13833	19,00	13834	25,60	13835	33,80	13836	41,80	3

Standard valves: Bold
 Custom-made valves: Normal

Various replacement parts

Filter seal for thermostat valve PN 25

Type	3/8"		1/2"		3/4"	
	Item no.	Price [EUR]	Item no.	Price [EUR]	Item no.	Price [EUR]
Filter	14031	6,60	14032	6,60	14033	7,00



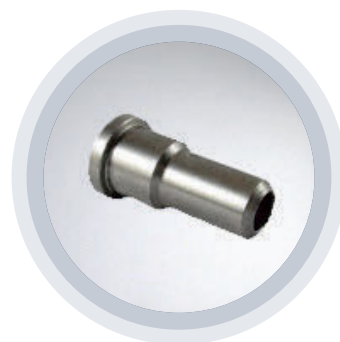
Brief description	Item no.	Price [EUR]	Use
Handwheel 70 x 11 mm, plastic	4211001	2,30	Refer Figure 154-157 H, 3/8" to 3/4"
Handwheel 75 x 11 mm, plastic	4211002	2,80	Refer Figure 154-157 H, 1" to 1 1/4"; Refer Figure 124 H, 3/8" to 1"
Handwheel 75 x 12 mm, plastic	4211003	2,80	Refer Figure 120-123 H, 3/8" to 3/4"
Handwheel 85 x 12 mm, plastic	4211004	3,20	Refer Figure 120-123 H, 1" to 1 1/2"
Cap handwheel	4211005	7,20	Refer Figure 154 K



Brief description	Item no.	Price [EUR]	Use
Head screw with flange 8 mm	4211051	0,50	for the spindle of valves of handwheel design Refer Figure 154-157 H and Figure 124 H
Head screw without flange 8 mm	4211052	0,50	for the spindle of valves of socket spanner design Refer Figure 154-157 S
Head screw with flange 9 mm	4211053	0,60	for the spindle of valves of handwheel design Refer Figure 120-123 H
Head screw without flange 9 mm	4211054	0,60	for the spindle of valves of socket spanner design Refer Figure 120-123 S



Brief description	Item no.	Price [EUR]	Use
Welding nipple 3/8"	4208001	4,60	also in Nut (N) and Spring (F) or with spanner flat (SW) and male thread Enquire about additional cost
Welding nipple 1/2"	4208002	4,60	
Welding nipple 3/4"	4208003	5,70	
Welding nipple 1"	4208004	8,40	
Welding nipple 1 1/4"	4208005	10,00	
Welding nipple 1 1/2"	4208006	12,40	



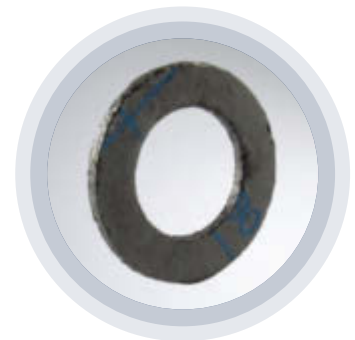
Brief description	Item no.	Price [EUR]	Use
Union Nut 3/8", 1/2"	4208351	6,00	
Union Nut 3/4"	4208353	8,10	
Union Nut 1"	4208354	10,50	
Union Nut 1 1/4"	4208355	15,20	
Union Nut 1 1/2"	4208356	21,60	



Brief description	Item no.	Price [EUR]	Use
Lock nut 3/8", 1/2"	4208301	8,90	Weight R 7/8", SW 36
Lock nut 3/4"	4208303	11,30	Weight R 1 1/8", SW 46
Lock nut 1"	4208304	15,20	Weight R 1 1/4", SW 50
Lock nut 1 1/4"	4208305	20,20	Weight R 1 3/4", SW64
Lock nut 1 1/2"	4208306	34,40	Weight R 2", SW 70



Brief description	Item no.	Price [EUR]	Use
Sealing ring for 3/8", 1/2"	4207131	0,70	27,5 x 16 x 1,5
Sealing ring for 3/4"	4207132	0,70	23 x 34,5 x 1,5
Sealing ring for 1"	4207133	0,80	27 x 38,5 x 1,5
Sealing ring for 1 1/4"	4207134	0,90	36 x 50,5 x 1,5
Sealing ring for 1 1/2"	4207135	0,90	42 x 56,5 x 1,5

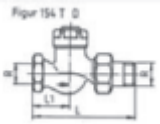
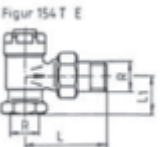
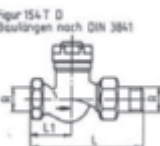
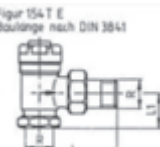
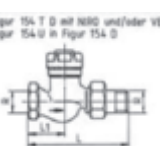
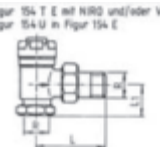
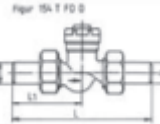
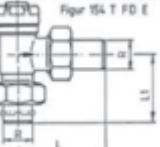
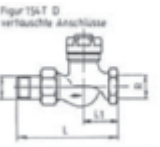
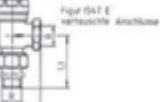


Brief description	Item no.	Price [EUR]	Use
O-ring connector comp.	4209095	4,40	154 T spindle length 19 mm
O-ring connector comp.	4453013	4,40	154 T/NIRO + 154 U spindle length 42.8 mm
O-ring connector comp.	4453015	8,50	154 T/VE + U/VE; 126 T/VE spindle length 36,5 mm
O-ring connector comp.	4453017	8,50	126 T + 120 U spindle length 42,8 mm
O-ring connector comp.	4453021	8,50	126 HT spindle length 45.8 mm
O-ring connector comp.	4453020	8,50	120 HU spindle length 46.3 mm
O-ring connector comp.	4453019	8,50	126 HTT spindle length 56.3 mm
O-ring connector comp.	4453029	17,80	126 HTT/1 with Turcon, spindle length 56.3 mm
Packing gland spanner	14039	29,40	12 mm, for all packing glands



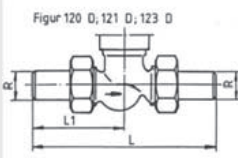
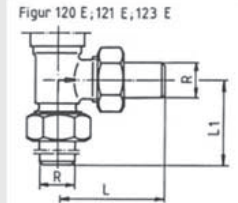
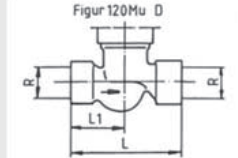
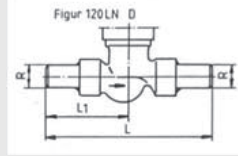
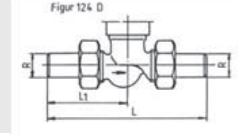
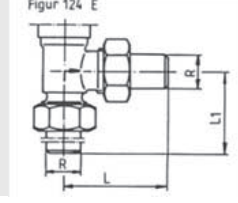
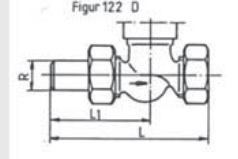
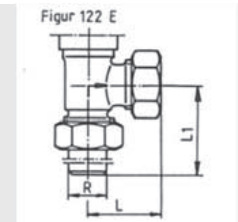
PRUSS-Low-Pressure Valves PN 10

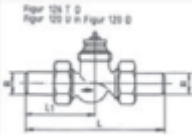
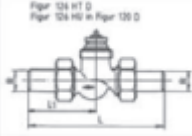
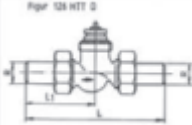
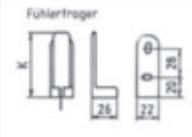
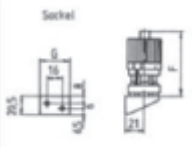
Manual valve	Size	R	L	L ₁	H		K		S				
					Handrad Ø D ₁	H ₁	Kappenhandrad Ø 50	H ₂	Steckschlüssel- Aufsatz	H ₃			
	DN 10	3/8"	98	32.5	H=	89	D=	70	H=	89	H=	94	
	DN 15	1/2"	98	32.5		89				70		89	94
	DN 20	3/4"	107	37.5		90				70		90	95
	DN 25	1"	129	45		103				75			108
	DN 32	1 1/4"	150	52.5		111				75			118
	DN 10	3/8"	68	30.5	H=	79	D=	70	H=	79	H=	83	
	DN 15	1/2"	68	30.5		79				70		79	83
	DN 20	3/4"	68	32.5		79				70		79	83
	DN 25	1"	79	36		90				75			96
	DN 32	1 1/4"	90	40		95				75			102
	DN 10	17	174	87	H=	89	D=	70	H=	89	H=	94	
	DN 15	21	174	87		89				70		89	94
	DN 20	26	179	89.5		90				70		90	95
	DN 25	33	194	97		103				75			108
	DN 32	42	214	107		111				75			118
	DN 10	17	89.5	85	H=	79	D=	70	H=	79	H=	83	
	DN 15	21	89.5	85		79				70		79	83
	DN 10	3/8"	75	37.5	H=	89	D=	70	H=	89	H=	94	
	DN 15	1/2"	75	37.5		89				70		89	94
	DN 20	3/4"	80	40		90				70		90	95
	DN 25	1"	95	47.5		103				75			108
	DN 32	1 1/4"	110	55		111				75			118
	DN 10	17	375	37.5	H=	89	D=	70	H=	89	H=	94	
	DN 15	21	375	37.5		89				70		89	94
	DN 20	26	380	40		90				70		90	95
	DN 25	33	395	47.5		103				75			108
	DN 32	42	410	55		111				75			118
	DN 10	3/8"	72.5	32.5	H=	89	D=	70	H=	89	H=	94	
	DN 15	1/2"	72.5	32.5		89				70		89	94
	DN 20	3/4"	83	37.5		90				70		90	95
	DN 25	1"	99	45		103				75			108
	DN 32	1 1/4"	115	52.5		111				75			118
	DN 10	3/8"	42.5	30.5	H=	79	D=	70	H=	79	H=	83	
	DN 15	1/2"	42.5	30.5		79				70		79	83
	DN 20	3/4"	43	32.5		79				70		79	83
	DN 25	1"	49	36		90				75			96
	DN 32	1 1/4"	55	40		95				75			102
	DN 10	17	129.5	87	H=	89	D=	70	H=	89	H=	94	
	DN 15	21	129.5	87		89				70		89	94
	DN 20	26	135	89.5		89				70		90	95
	DN 25	33	151	97		103				75			108
	DN 32	42	172	107		111				75			118
	DN 10	17	45	85	H=	79	D=	70	H=	79	H=	83	
	DN 15	21	45	85		79				70		79	83

Thermostat valve	Size	R	L	L ₁	Fixed sensor		Remote sensor		Distance transmitter	
					H ₁	H ₂	H ₃	H ₄	H ₅	H ₆
 Figur 154 T D	DN 10	3/8"	98	32.5	H ₁ =	94	H ₂ =	97	H ₃ =	74
	DN 15	1/2"	98	32.5		94		97		74
	DN 20	3/4"	107	37.5		97.5		100.5		77.5
	DN 25	1"	129	45		130		133		110
 Figur 154 T E	DN 10	3/8"	68	30.5	H ₁ =	87	H ₂ =	90	H ₃ =	67
	DN 15	1/2"	68	30.5		87		90		67
	DN 20	3/4"	68	32.5		93		96		73
	DN 25	1"	79	36		117		120		97
 Figur 154 T D Baulängen nach DIN 3841	DN 10	3/8"	85	32.5	H ₁ =	118.5	H ₂ =	121.5	H ₃ =	98.5
	DN 15	1/2"	95	32.5		118.5		121.5		98.5
	DN 20	3/4"	106	37.5		120.5		123.5		100.5
 Figur 154 T E Baulängen nach DIN 3841	DN 10	3/8"	52	22	H ₁ =	108.5	H ₂ =	111.5	H ₃ =	88.5
	DN 15	1/2"	58	26		108.5		111.5		88.5
	DN 20	3/4"	66	29		108.5		111.5		88.5
 Figur 154 T D mit NRD und/oder VE Figur 154 U in Figur 154 D	DN 10	3/8"	98	32.5	H ₁ =	118.5	H ₂ =	121.5	H ₃ =	98.5
	DN 15	1/2"	98	32.5		118.5		121.5		98.5
	DN 20	3/4"	107	37.5		120.5		123.5		100.5
	DN 25	1"	129	45		130		133		110
 Figur 154 T E mit NRD und/oder VE Figur 154 U in Figur 154 E	DN 10	3/8"	68	30.5	H ₁ =	108.5	H ₂ =	111.5	H ₃ =	88.5
	DN 15	1/2"	68	30.5		108.5		111.5		88.5
	DN 20	3/4"	68	32.5		108.5		111.5		88.5
	DN 25	1"	79	36		117		120		97
 Figur 154 T FD D	DN 10	17	174	87	H ₁ =	118.5	H ₂ =	121.5	H ₃ =	98.5
	DN 15	21	174	87		118.5		121.5		98.5
	DN 20	26	179	89.5		120.5		123.5		100.5
	DN 25	33	194	97		130		133		110
 Figur 154 T FD E	DN 10	17	89.5	85	H ₁ =	108.5	H ₂ =	111.5	H ₃ =	88.5
	DN 15	21	89.5	85		108.5		111.5		88.5
 Figur 154 T D verbauchte Anschlüsse	DN 10	3/8"	98	32.5	H ₁ =	118.5	H ₂ =	121.5	H ₃ =	98.5
	DN 15	1/2"	98	32.5		118.5		121.5		98.5
	DN 20	3/4"	107	37.5		120.5		123.5		100.5
 Figur 154 T E verbauchte Anschlüsse	DN 10	3/8"	30.5	68	H ₁ =	108.5	H ₂ =	111.5	H ₃ =	88.5
	DN 15	1/2"	30.5	68		108.5		111.5		88.5
	DN 20	3/4"	32.5	68		108.5		111.5		88.5

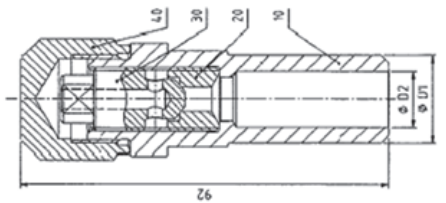
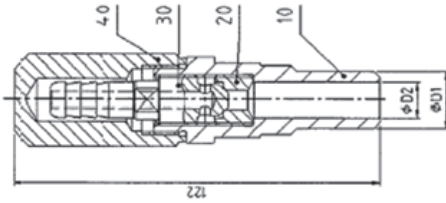
Measurements for sensor support and base, see

PRUSS- High Pressure Valves

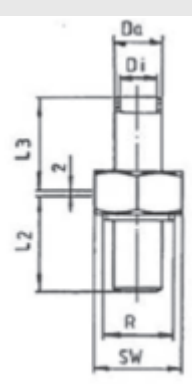
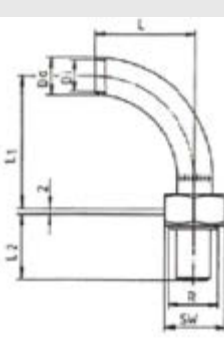
Manual valve	Size	R	L	L ₁	H		S				
					Handrad φD	H ₁	Steckschlüssel- Aufsatz	H ₂			
	DN 10	17	184	92	H=	119	D=	75	H ₁ =	117	
	DN 15	21	184	92							75
	DN 20	26	194	97							75
	DN 25	33	209	104.5							85
	DN 32	42	229	114.5							85
	DN 40	48	264	132							100
	DN 10	17	92	87	H=	106	D=	75	H ₁ =	103	
	DN 15	21	92	87							75
	DN 20	26	92	89.5							75
	DN 25	33	100	99							85
	DN 32	42	107	104							85
	DN 40	48	107	104							85
	DN 10	3/8"	80	40	H=	119	D=	75	H ₁ =	117	
	DN 15	1/2"	80	40							75
	DN 20	3/4"	90	45							75
	DN 25	1"	105	52.5							85
	DN 32	1 1/4"	125	62.5							85
	DN 40	1 1/2"	140	70							100
	DN 10	17	380	190	H=	119	D=	75	H ₁ =	117	
	DN 15	21	380	190							75
	DN 20	26	390	195							75
	DN 25	33	405	202.5							85
	DN 32	42	425	212.5							85
	DN 40	48	440	220							100
	DN 10	17	184	92	H=	133	D=	75	H ₁ =	117	
	DN 15	21	184	92							75
	DN 20	26	194	97							75
	DN 25	33	209	104.5							85
	DN 32	42	229	114.5							85
	DN 10	17	92	87	H=	119.5	D=	75	H ₁ =	103	
	DN 15	21	92	87							75
	DN 20	26	92	89.5							75
	DN 25	33	100	99							85
	DN 32	42	107	104							85
	DN 10	17	137.5	92	H=	119	D=	75	H ₁ =	117	
	DN 15	21	137.5	92							75
	DN 20	26	149	97							75
	DN 25	33	164	104.5							85
	DN 32	42	185	114.5							85
	DN 40	48	211	132							100
	DN 10	17	45.5	87	H=	106	D=	75	H ₁ =	103	
	DN 15	21	45.5	87							75
	DN 20	26	47	89.5							75
	DN 25	33	55	99							85
	DN 32	42	63	104							85
	DN 40	48	63	104							85

Thermostat valve	Size	R	L	L ₁	Fixed sensor		Remote sensor		Distance transmitter	
					H ₁	H ₂	H ₃			
	DN 10	17	184	92	H=	120	H ₁ =	123.5	H ₁ =	100.5
	DN 15	21	184	92		120		123.5		100.5
	DN 20	26	194	97		122		125.5		102.5
	DN 10	17	92	87	H ₁ =	105.5	H ₁ =	109	H ₁ =	86
	DN 15	21	92	87		105.5		109		86
	DN 20	26	92	89.5		107.5		111		88
	DN 10	17	184	92	H=	124	H ₁ =	127.5	H ₁ =	104.5
	DN 15	21	184	92		124		127.5		104.5
	DN 20	26	194	97		126		129.5		106.5
	DN 10	17	92	87	H ₁ =	109.5	H ₁ =	113	H ₁ =	90
	DN 15	21	92	87		109.5		113		90
	DN 20	26	92	89.5		112		115.5		92.5
	DN 10	17	184	92	H=	134	H ₁ =	137.5	H ₁ =	114.5
	DN 15	21	184	92		134		137.5		114.5
	DN 20	26	194	97		136		139.5		116.5
	DN 10	17	92	87	H ₁ =	119.5	H ₁ =	123	H ₁ =	100
	DN 15	21	92	87		119.5		123		100
	DN 20	26	92	89.5		122		125.5		102.5
							K=	73		
					F=	78			G=	33

Breather

	Size	D2	D1
 <p>Typ: L 179</p>	DN 10	11	18
	DN 15	14	22
 <p>Typ: L 179 SV (Schlauchanschluß)</p>	DN 10	11	18
	DN 15	14	22

Radiator connection

	Size	H	L	L ₁	L ₂	L ₃	R	SW	SW ₁	GT	GL	Di	Da
	DN 10			50	50	7/8"	36					11	17
	DN 15			50	50	7/8"	36					14	21
	DN 20			50	50	1 1/8"	46					20	26
	DN 25			60	50	1 1/4"	50					24	33
	DN 32			60	50	1 3/4"	64					33	42
	DN 40			66	60	2"	70					39	48
	DN 10		50	75	50	7/8"	36					11	17
	DN 15		65	85	50	7/8"	36					14	21
	DN 20		65	85	50	1 1/8"	46					20	26
	DN 25		75	95	60	1 1/4"	50					24	33
	DN 32		100	120	60	1 3/4"	64					33	42
	DN 40		120	145	66	2"	70					39	48

CONTACT

Agencies abroad:

EUROPE

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Vordingbord, Denmark
Vantaa, Finland
Kohtla-Jarve, Estonia
Acharnai, Greece
Kurtköy-Istanbul, Turkey
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Solingen, Germany
Warszawa, Poland
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Papua New Guinea

Noumea, New Caledonia



PRUSS

UNDER PRESSURE SINCE 1889.

Waldemar Pruss Armaturenfabrik GmbH

Schulenburg Landstraße 261 · 30419 Hannover

Phone +49 (0) 511 27986-0

Fax +49 (0) 511 27986 87

www.pruss.de · info@pruss.de



Heizungsarmaturen

