

**PRUSS**

UNDER PRESSURE SINCE 1889.



## PRODUCT INFORMATION

### 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.

<b>Product Group</b>	<b>PG</b>	<b>Pressure Range</b>	<b>UPG</b>	<b>Product</b>	<b>Type</b>	<b>Page</b>
Manual valves	100	PN 10	110	Control valves	154	4-5
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					157	8-9
			130	Discharge valves	156	10-11
			140	Accessories	Z10	12-13
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			220	Block valves	121	16-17
			230	Discharge valves	122	18-19
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	300	PN 40	310	Control valves	123	22-23
					124	24-25
			320	Block valves	121	26-27
			330	Discharge valves	122	28-29
			340	Accessories	Z40	30-31
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			560	Retrofit kits	154 U	40-41
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Discharge valves	700	PN 25/40	780	Breather	L179 / L183	48-49
Radiator connection	800	PN 25/40	890		RV 191	50-51
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PG = Product group  
UPG = Sub-product group

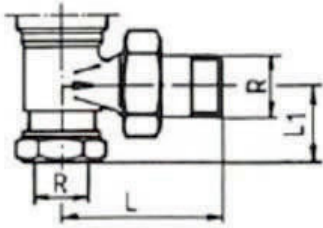


## Manual Control Valve PN 10

### 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).

<b>Housing material</b>		Red brass (Rg 5)
<b>Seat/Cone material</b>		Red brass / brass
	NIRO:	Stainless steel for high alkalinity
<b>Design</b>		Normal design
	BM:	Authority model with secured upper section cap and gland nut
<b>Ports</b>	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 150 mm long
	FD:	flat sealing screw joint on both sides, with welded nipple, seal and union nut
<b>Actuating design</b>	H:	Normal handwheel
	K:	Cap handwheel
	S:	Socket spanner
	SG:	Socket spanner, cap closed with the help of screwable sealing plug
<b>Housing form</b>	E:	Angular form
	D:	Straight form
<b>Option</b>	SF:	Valve in „silicon-free“ design



Size	R	L	L <sub>1</sub>	H		K		S				
				Handrad ∅ D <sub>1</sub>	H <sub>1</sub>	Kappenhandrad ∅ S <sub>2</sub>	H <sub>2</sub>	Steckschlüssel- Aufsatz	H <sub>3</sub>			
DN 10	3/8"	68	30,5	H <sub>1</sub> =	79	D <sub>1</sub> =	70	H <sub>2</sub> =	79	H <sub>3</sub> =	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.		Item no.		Item no.		Item no.		Item no.		
154				H	E	<b>10001</b>		<b>10002</b>		<b>10003</b>		<b>10004</b>		10005		2A
154				H	D	<b>10021</b>		<b>10022</b>		<b>10023</b>		<b>10024</b>		10025		1A
154				K	E	10181		10182		10183		—		—		2B
154				K	D	10191		10192		10193		—		—		1B
154				S	E	<b>10011</b>		<b>10012</b>		<b>10013</b>		<b>10014</b>		10015		2C
154				S	D	<b>10031</b>		<b>10032</b>		<b>10033</b>		<b>10034</b>		10035		1C
154				SG	E	10121		10122		10123		10124		10125		2C
154				SG	D	10131		10132		10133		10134		10135		1C
154			MU	H	D	10501		10502		10503		10504		—		5A
154			MU	S	D	10511		10512		10513		10514		—		5C
154			LN	H	D	10901		10902		10903		10904		—		6A
154			LN	S	D	10911		10912		10913		10914		—		6C
154			FD	H	D	10701		10702		10703		10704		—		3A
154			FD	S	D	10711		10712		10713		10714		—		3C
154		BM		H	E	10401		10402		10403		10404		10405		2A
154		BM		H	D	10421		10422		10423		10424		10425		1A
154		BM		S	E	10411		10412		10413		10414		10415		2C
154		BM		S	D	10431		10432		10433		10434		10435		1C
154		BM		SG	E	10461		10462		10463		10464		10465		2C
154		BM		SG	D	10471		10472		10473		10474		10475		1C
154	NIRO			H	E	<b>10201</b>		<b>10202</b>		<b>10203</b>		<b>10204</b>		10205		2A
154	NIRO			H	D	<b>10221</b>		<b>10222</b>		<b>10223</b>		<b>10224</b>		10225		1A
154	NIRO			S	E	<b>10211</b>		<b>10212</b>		<b>10213</b>		<b>10214</b>		10215		2C
154	NIRO			S	D	<b>10231</b>		<b>10232</b>		<b>10233</b>		<b>10234</b>		10235		1C
154	NIRO		FD	H	D	10741		10742		10743		10744		—		3A
154	NIRO		FD	S	D	10751		10752		10753		10754		—		3C
154	NIRO	BM		H	E	10361		10362		10363		10364		10365		2A
154	NIRO	BM		H	D	10381		10382		10383		10384		10385		1A
154	NIRO	BM		S	E	10371		10372		10373		10374		10375		2C
154	NIRO	BM		S	D	10391		10392		10393		10394		10395		1C

Standard valves: Bold

Custom-made valves: Normal

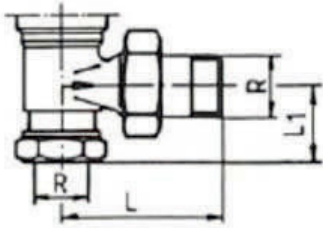


## Manual Block Valve PN 10

### 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.

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



Size	R	L	L <sub>1</sub>	H			K		S			
				Handrad ∅ D <sub>1</sub>	H <sub>1</sub>	D <sub>1</sub>	Kappenhandrad ∅ 58	H <sub>2</sub>	Steckschlüssel- Aufsatz	H <sub>3</sub>		
DN 10	3/8"	68	30,5	H <sub>1</sub> =	79	D <sub>1</sub> =	70	H <sub>2</sub> =	79	H <sub>3</sub> =	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.	Item no.	Item no.	Item no.	Item no.	Item no.					
155				H	E	<b>10041</b>	<b>10042</b>	<b>10043</b>	<b>10044</b>			10045			2A	
155				H	D	<b>10061</b>	<b>10062</b>	<b>10063</b>	<b>10064</b>			10065			1A	
155				S	E	<b>10051</b>	<b>10052</b>	<b>10053</b>	<b>10054</b>			10055			2C	
155				S	D	<b>10071</b>	<b>10072</b>	<b>10073</b>	<b>10074</b>			10075			1C	
155				SG	E	10141	10142	10143	10144			10145			2C	
155				SG	D	10151	10152	10153	10154			10155			1C	
155			MU	H	D	10521	10522	10523	10524			10525			5A	
155			MU	S	D	10531	10532	10533	10534			10535			5C	
155		BM		H	E	10621	10622	10623	10624			10625			2A	
155		BM		H	D	10641	10642	10643	10644			10645			1A	
155		BM		S	E	10631	10632	10633	10634			10635			2C	
155		BM		S	D	10651	10652	10653	10654			10655			1C	
155		BM		SG	E	10481	10482	10483	10484			10485			2C	
155		BM		SG	D	10491	10492	10493	10494			10495			1C	
155	NIRO			H	E	10241	10242	10243	10244			10245			2A	
155	NIRO			H	D	10261	10262	10263	10264			10265			1A	
155	NIRO			S	E	10251	10252	10253	10254			10255			2C	
155	NIRO			S	D	10271	10272	10273	10274			10275			1C	

Standard valves: Bold

Custom-made valves: Normal



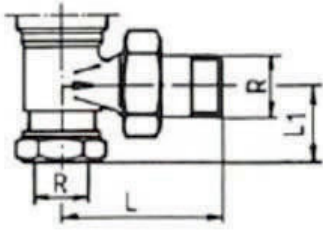
## Manual Block- and Control-valve PN 10

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.

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





Size	R	L	L <sub>1</sub>	H			K		S			
				Handrad ∅ D <sub>1</sub>			Kappenhandrad ∅ 58		Steckschlüssel- Aufsatz			
DN 10	3/8"	68	30,5	H <sub>1</sub> =	79	D <sub>1</sub> =	70	H <sub>2</sub> =	79	H <sub>3</sub> =	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.		Item no.		Item no.		Item no.		Item no.		
157	SOM			H	E	10321		10322		10323		10324		10325		2A
157	SOM			H	D	10331		10332		10333		10334		10335		1A

Standard valves: Bold

Custom-made valves: Normal

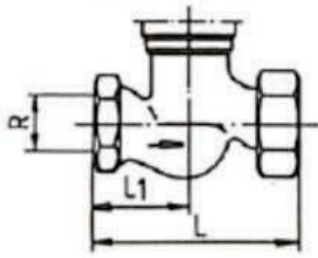


## Manual Discharge Valve PN 10

### 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.

<b>Housing material</b>		Red brass (Rg 5)
<b>Seat/Cone material</b>		Red brass / brass
	NIRO:	Stainless steel for high alkalinity and steam
<b>Design</b>		Normal design
	BM:	Authority model with secured upper section cap and gland nut
<b>Ports</b>	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
<b>Actuating design</b>	H:	Normal handwheel
	S:	Socket spanner
	SG:	Socket spanner, cap closed with the help of screwable sealing plug
<b>Housing form</b>	E:	Angular form
	D:	Straight form
<b>Option</b>	SF:	Valve in „silicon-free“ design



Size	R	L	L <sub>1</sub>	H		K		S				
				Handrad ∅ D <sub>1</sub>	H <sub>1</sub>	Kappenhandrad ∅ S <sub>2</sub>	H <sub>2</sub>	Steckschlüssel- Aufsatz	H <sub>3</sub>			
DN 10	3/8"	72,5	32,5	H <sub>1</sub> =	89	D <sub>1</sub> =	70	H <sub>2</sub> =	89	H <sub>3</sub> =	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	108
DN 32	1 1/4"	115	52,5		111				75		118	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.		Item no.		Item no.		Item no.		Item no.		
156				H	E	<b>10081</b>		<b>10082</b>		<b>10083</b>		<b>10084</b>		10085		8A
156				H	D	<b>10101</b>		<b>10102</b>		<b>10103</b>		<b>10104</b>		10105		7A
156				S	E	<b>10091</b>		<b>10092</b>		<b>10093</b>		<b>10094</b>		10095		8C
156				S	D	<b>10111</b>		<b>10112</b>		<b>10113</b>		<b>10114</b>		10115		7C
156				SG	E	10161		10162		10163		10164		10165		8C
156				SG	D	10171		10172		10173		10174		10175		7C
156			FD	H	D	10721		10722		10723		10724		—		9A
156			FD	S	D	10731		10732		10733		10734		—		9C
156		BM		H	D	10441		10442		10443		10444		10445		7A
156		BM		S	D	10451		10452		10453		10454		10455		7C
156	NIRO			H	E	10281		10282		10283		10284		10285		8A
156	NIRO			H	D	10301		10302		10303		10304		10305		7A
156	NIRO			S	E	10291		10292		10293		10294		10295		8C
156	NIRO			S	D	10311		10312		10313		10314		10315		7C
156	NIRO		FD	H	D	10761		10762		10763		10764		—		9A
156	NIRO		FD	S	D	10771		10772		10773		10774		—		9C

Standard valves: Bold  
 Custom-made valves: Normal



# ACCESSORIES

## Threaded hose couplings for discharge valve PN 10

Type	3/8"		1/2"		3/4"		1"		1 1/4"	
	Item no.		Item no.		Item no.		Item no.		Item no.	
SV 156	<b>13901</b>		<b>13902</b>		<b>13903</b>		<b>13904</b>		13905	
SV 122 (for 156 FD)	<b>13911</b>		<b>13912</b>		<b>13913</b>		<b>13914</b>		—	

Standard valves: Bold

Custom-made valves: Normal

## Special spanner

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



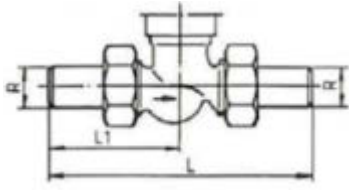
## Manual Control Valve PN 25

### 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.

<b>Housing material</b>		Bronze CC480K (2.1050)
<b>Seat/Cone material</b>	BZ:	Bronze – for hot water max. 160°C, 25 bar
	NIRO:	Stainless steel – for hot water max. 225°C, 10 bar and high alkalinity
<b>Ports</b>		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 150 mm long
<b>Actuating design</b>	H:	Normal handwheel
	S:	Socket spanner
<b>Housing form</b>	E:	Angular form
	D:	Straight form
<b>Option</b>		Valve in „silicon-free“ design



Size	R	L	L <sub>1</sub>	H			S	
				Handrad ∅D	H <sub>1</sub>	D	Steckschlüssel- Aufsatz	H <sub>2</sub>
DN 10	17	184	92	119	H <sub>1</sub> =	D =	H <sub>2</sub> =	75
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

## 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.		Item no.		Item no.		Item no.		Item no.		Item no.		
120	BZ		H	E	<b>11061</b>		<b>11062</b>		<b>11063</b>		<b>11064</b>		11065		—		2A
120	BZ		H	D	<b>11001</b>		<b>11002</b>		<b>11003</b>		<b>11004</b>		<b>11005</b>		11006		1A
120	BZ		S	E	<b>11071</b>		<b>11072</b>		<b>11073</b>		<b>11074</b>		11075		—		2B
120	BZ		S	D	<b>11011</b>		<b>11012</b>		<b>11013</b>		<b>11014</b>		<b>11015</b>		11016		1B
120	BZ	LN	H	D	11201		11202		11203		11204		11205		11206		4A
120	BZ	LN	S	D	11211		11212		11213		11214		11215		11216		4B
120	NIRO		H	E	<b>11161</b>		<b>11162</b>		<b>11163</b>		<b>11164</b>		11165		—		2A
120	NIRO		H	D	<b>11101</b>		<b>11102</b>		<b>11103</b>		<b>11104</b>		<b>11105</b>		11106		1A
120	NIRO		S	E	<b>11171</b>		<b>11172</b>		<b>11173</b>		<b>11174</b>		11175		—		2B
120	NIRO		S	D	<b>11111</b>		<b>11112</b>		<b>11113</b>		<b>11114</b>		<b>11115</b>		11116		1B
120	NIRO	LN	H	D	11301		11302		11303		11304		11305		11306		4A
120	NIRO	LN	S	D	11311		11312		11313		11314		11315		11316		4B

Standard valves: Bold  
 Custom-made valves: Normal



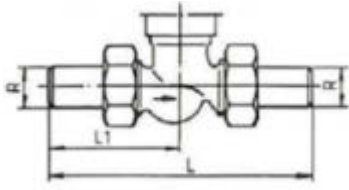
## Manual Block Valve PN 25

### 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.

<b>Housing material</b>		Bronze CC480K (2.1050)
<b>Seat/Cone material</b>	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
<b>Ports</b>		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 150 mm long
<b>Actuating design</b>	H:	Normal handwheel
	S:	Socket spanner
<b>Housing form</b>	E:	Angular form
	D:	Straight form
<b>Option</b>	SF:	Valve in „silicon-free“ design





Size	R	L	L <sub>1</sub>	H			S	
				Handrad ØD	H <sub>1</sub>	D	Steckschlüssel- Aufsatz	H <sub>2</sub>
DN 10	17	184	92	119	H <sub>1</sub> =	D =	75	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.		Item no.		Item no.		Item no.		Item no.		Item no.		
121	BZ		H	E	<b>11081</b>		<b>11082</b>		<b>11083</b>		<b>11084</b>		11085		—		2A
121	BZ		H	D	<b>11021</b>		<b>11022</b>		<b>11023</b>		<b>11024</b>		<b>11025</b>		11026		1A
121	BZ		S	E	<b>11091</b>		<b>11092</b>		<b>11093</b>		<b>11094</b>		11095		—		2B
121	BZ		S	D	<b>11031</b>		<b>11032</b>		<b>11033</b>		<b>11034</b>		<b>11035</b>		11036		1B
121	BZ	LN	H	D	11221		11222		11223		11224		11225		11226		4A
121	BZ	LN	S	D	11231		11232		11233		11234		11235		11236		4B
121	NIRO		H	E	<b>11181</b>		<b>11182</b>		<b>11183</b>		<b>11184</b>		11185		—		2A
121	NIRO		H	D	<b>11121</b>		<b>11122</b>		<b>11123</b>		<b>11124</b>		<b>11125</b>		11126		1A
121	NIRO		S	E	<b>11191</b>		<b>11192</b>		<b>11193</b>		<b>11194</b>		11195		—		2B
121	NIRO		S	D	<b>11131</b>		<b>11132</b>		<b>11133</b>		<b>11134</b>		<b>11135</b>		11136		1B
121	NIRO	LN	H	D	11321		11322		11323		11324		11325		11326		4A
121	NIRO	LN	S	D	11331		11332		11333		11334		11335		11336		4B

Standard valves: Bold  
 Custom-made valves: Normal

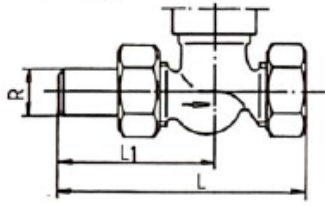


## Manual Discharge Valve PN 25

### 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.

<b>Housing material</b>		Bronze CC480K (2.1050)
<b>Seat/Cone material</b>	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
<b>Ports</b>	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 150 mm long
		Outlet: is provided with a sealing cap
<b>Actuating design</b>	H:	Normal handwheel
	S:	Socket spanner
<b>Housing form</b>	D:	Straight form
<b>Option</b>	SF:	Valve in „silicon-free“ design



Size	R	L	L <sub>1</sub>	H			S	
				Handrad ØD	H <sub>1</sub>	D	Steckschlüssel- Aufsatz	H <sub>2</sub>
DN 10	17	137,5	92	119	H <sub>1</sub> =	D =	75	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.		Item no.		Item no.		Item no.		Item no.		Item no.		
122	BZ		H	D	<b>11041</b>		<b>11042</b>		<b>11043</b>		<b>11044</b>		<b>11045</b>		11046		7A
122	BZ		S	D	<b>11051</b>		<b>11052</b>		<b>11053</b>		<b>11054</b>		<b>11055</b>		11056		7B
122	BZ	LN	H	D	11241		11242		11243		11244		11245		11246		4A/7A
122	BZ	LN	S	D	11251		11252		11253		11254		11255		11256		4B/7B
122	NIRO		H	D	<b>11141</b>		<b>11142</b>		<b>11143</b>		<b>11144</b>		<b>11145</b>		11146		7A
122	NIRO		S	D	<b>11151</b>		<b>11152</b>		<b>11153</b>		<b>11154</b>		<b>11155</b>		11156		7B
122	NIRO	LN	H	D	11341		11342		11343		11344		11345		11346		4A/7A
122	NIRO	LN	S	D	11351		11352		11353		11354		11355		11356		4B/7B

Standard valves: Bold  
 Custom-made valves: Normal



# 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.		Item no.		Item no.		Item no.		Item no.		Item no.	
SV 122	<b>13911</b>		<b>13912</b>		<b>13913</b>		<b>13914</b>		<b>13915</b>		13916	

Standard valves: Bold

Custom-made valves: Normal

## Special spanner

Type	Item no.	Verwendung
ES 120	<b>14040</b>	Adjusting spanner for pre-adjustment of the manual control valves Figure 120
ES 124	<b>14041</b>	Socket spanner for the stroke limitation of the manual control valves Figure 124
SS 154/120	<b>14043</b>	Socket spanner for the hand valves of the actuation guide of socket spanner (S)



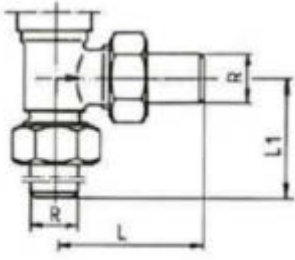
actuating design HW

## 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.

<b>Housing material</b>		Bronze CC480K (2.1050)
<b>Seat/Cone material</b>	SOM:	Stainless steel, cone highly quenched and tempered
	SOMW:	Cone with soft packing
<b>Ports</b>		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
<b>Actuating design</b>	H:	Normal handwheel
	S:	Socket spanner
	AW:	Handwheel with thermal sleeve
<b>Housing form</b>	E:	Angular form
	D:	Straight form
<b>Option</b>	SF:	Valve in „silicon-free“ design



Size	R	L	L <sub>1</sub>	H			S		
				Handrad ∅D	H <sub>1</sub>	D	Steckschlüssel- Aufsatz	H <sub>2</sub>	
DN 10	17	92	87	H <sub>1</sub> =	106	D =	75	H <sub>2</sub> =	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.		Item no.		Item no.		Item no.		Item no.		Item no.		
123	SOM		H	E	11521		11522		11523		11524		11525		—		2A
123	SOM		H	D	11441		11442		11443		11444		11445		11446		1A
123	SOM		S	E	11531		11532		11533		11534		11535		—		2B
123	SOM		S	D	11451		11452		11453		11454		11455		11456		1B
123	SOM	NF	H	D	14241		14242		14243		14244		14245		—		1A
123	SOM	NF	S	D	14251		14252		14253		14254		14255		—		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		14462		14463		14464		14465		—		2A
123	SOM		H	D	14451		14452		14453		14454		14455		14456		1A
123	SOM		HW	E	14481		14482		14483		—	—	—	—	—		2A
123	SOM		HW	D	14471		14472		14473		—	—	—	—	—		1A
123	SOMW		H	E	14421		14422		14423		14424		14425		—		2A
123	SOMW		H	D	14411		14412		14413		14414		14415		14416		1A
123	SOMW		HW	E	14441		14442		14443		—	—	—	—	—		2A
123	SOMW		HW	D	14431		14432		14433		—	—	—	—	—		1A

Standard valves: Bold

Custom-made valves: Normal



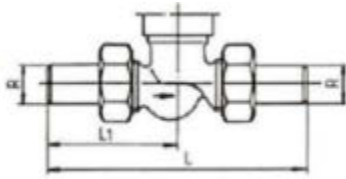
## Manual Control Valve PN 40

### 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.

<b>Housing material</b>		Bronze CC480K (2.1050)
<b>Seat/Cone material</b>	SOM:	Stainless steel, cone highly quenched and tempered
<b>Ports</b>		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
<b>Actuating design</b>	H:	Normal handwheel
<b>Housing form</b>	E:	Angular form
	D:	Straight form
<b>Option</b>	SF:	Valve in „silicon-free“ design





Size	R	L	L <sub>1</sub>	H			S	
				Handrad ∅D	H <sub>1</sub>	D	Steckschlüssel- Aufsatz	H <sub>2</sub>
DN 10	17	184	92	H <sub>1</sub> =	133	D =	75	
DN 15	21	184	92		133		75	
DN 20	26	194	97		137		75	
DN 25	33	209	104,5		152		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.		Item no.		Item no.		Item no.		Item no.		Item no.		
124	SOM		H	E	11551		11552		11553		11554		—		—		6A
124	SOM		H	D	11471		11472		11473		11474		—		—		5A
124	SOM	NF	H	D	14261		14262		14263		14264		—		—		5A

Standard valves: Bold  
 Custom-made valves: Normal

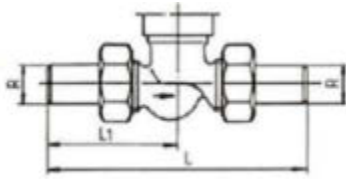


## Manual Block Valve PN 40

### 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.

<b>Housing material</b>		Bronze CC480K (2.1050)
<b>Seat/Cone material</b>	SOM:	Stainless steel, cone highly quenched and tempered
<b>Ports</b>		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
<b>Actuating design</b>	H:	Normal handwheel
	S:	Socket spanner
<b>Housing form</b>	E:	Angular form
	D:	Straight form
<b>Option</b>	SF:	Valve in „silicon-free“ design



Size	R	L	L <sub>1</sub>	H			S		
				Handrad ∅D	H <sub>1</sub>	D	Steckschlüssel- Aufsatz	H <sub>2</sub>	
DN 10	17	184	92	H <sub>1</sub> =	119	D =	H <sub>2</sub> =	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.		Item no.		Item no.		Item no.		Item no.		Item no.		
121	SOM		H	E	11501		11502		11503		11504		11505		—		2A
121	SOM		H	D	11401		11402		11403		11404		11405		11406		1A
121	SOM		S	E	11511		11512		11513		11514		11515		—		2B
121	SOM		S	D	11411		11412		11413		11414		11415		11416		1B
121	SOM	NF	H	D	14201		14202		14203		14204		14205		—		1A
121	SOM	NF	S	D	14211		14212		14213		14214		14215		—		1B

Standard valves: Bold

Custom-made valves: Normal

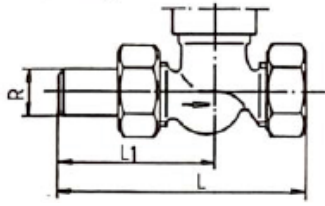


## Manual Discharge Valve PN 40

### 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.

<b>Housing material</b>		Bronze CC480K (2.1050)
<b>Seat/Cone material</b>	SOM:	Stainless steel, cone highly quenched and tempered
<b>Ports</b>	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
<b>Actuating design</b>	H:	Normal handwheel
	S:	Socket spanner
<b>Housing form</b>	D:	Straight form
<b>Option</b>	SF:	Valve in „silicon-free“ design



Size	R	L	L <sub>1</sub>	H			S	
				Handrad ∅D	H <sub>1</sub>	D	Steckschlüssel- Aufsatz	H <sub>2</sub>
DN 10	17	137,5	92	119	D =	75	H <sub>2</sub> =	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.		Item no.		Item no.		Item no.		Item no.		Item no.		
122	SOM		H	D	11421		11422		11423		11424		11425		11426		7A
122	SOM		S	D	11431		11432		11433		11434		11435		11436		7B
122	SOM	NF	H	D	14221		14222		14223		14224		14225		—		7A
122	SOM	NF	S	D	14231		14232		14233		14234		14235		—		7B

Standard valves: Bold  
 Custom-made valves: Normal



# 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.		Item no.		Item no.		Item no.		Item no.		Item no.	
SV 122	<b>13911</b>		<b>13912</b>		<b>13913</b>		<b>13914</b>		<b>13915</b>		13916	

Standard valves: Bold

Custom-made valves: Normal

## Special spanner

Type	Item no.		Use
SS 154/120	<b>14043</b>		Socket spanner for the hand valves of the actuation guide of socket spanner (S)



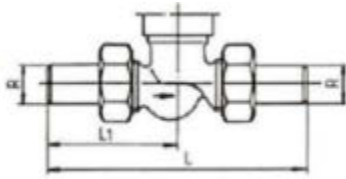
## Manual Control Valve PN 63

### 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.

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





Size	R	L	L <sub>1</sub>	H			S		
				Handrad ∅D	H <sub>1</sub>	D	Steckschlüssel- Aufsatz	H <sub>2</sub>	
DN 10	17	184	92	H <sub>1</sub> =	119	D =	75	H <sub>2</sub> =	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

## 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.		Item no.		Item no.		Item no.		Item no.		Item no.		
123 GGG	SOM	NF	H	E	14321		14322		14323		14324		14325		—		2A
123 GGG	SOM	NF	H	D	14331		14332		14333		14334		14335		14336		1A

Actuating design S possible

Standard valves: Bold

Custom-made valves: Normal

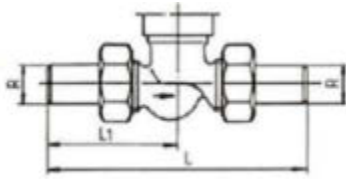


## Manual Block Valve PN 63

### 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.

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



Size	R	L	L <sub>1</sub>	H			S		
				Handrad ∅D	H <sub>1</sub>	D	Steckschlüssel- Aufsatz	H <sub>2</sub>	
DN 10	17	184	92	H <sub>1</sub> =	119	D =	75	H <sub>2</sub> =	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.		Item no.		Item no.		Item no.		Item no.		Item no.		
121 GGG	SOM	NF	H	D	11601		11602		11603		11604		11605		11606		
121 GGG	SOM	NF	S	D	11611		11612		11613		11614		11615		11616		

Corner block valve upon request

Standard valves: Bold

Custom-made valves: Normal

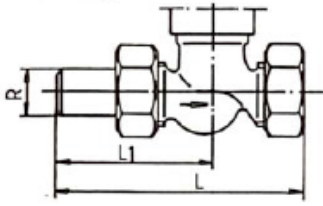


## Manual Discharge Valve PN 63

### 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.

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



Size	R	L	L <sub>1</sub>	H			S		
				Handrad ØD	H <sub>1</sub>	D	Steckschlüssel- Aufsatz	H <sub>2</sub>	
DN 10	17	137,5	92	H <sub>1</sub> =	119	D =	75	H <sub>2</sub> =	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.		Item no.		Item no.		Item no.		Item no.		Item no.		
122 GGG	SOM	NF	H	D	11621		11622		11623		11624		11625		11626		
122 GGG	SOM	NF	S	D	11631		11632		11633		11634		11635		11636		

Corner discharge valve upon request

Standard valves: Bold

Custom-made valves: Normal

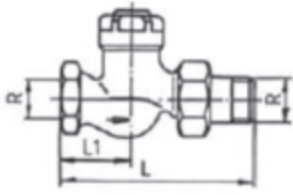


## Thermostat Valve PN 10

### 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.

<b>Housing material</b>		Red brass (Rg 5)
<b>Seat/Cone material</b>	NIRO:	Red brass / brass and soft packing Stainless steel and soft packing Cone seal is not mineral oil resistant
<b>Design</b>	VE:	Normal design (without continuously adjustable) Presetting continuously adjustable presetting (please make a note of Kv-values)
<b>Ports</b>	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
<b>Housing form</b>	E: D:	Angular form Straight form
<b>Thermostat sensor</b>		Separate order must be placed for the same! (see pages 46 and 47)
<b>Option</b>	SF:	Valve in „silicon-free“ design



Size	R	L	L <sub>1</sub>	Fixed sensor		Remote sensor		Distance transmitter	
				H <sub>1</sub>	H <sub>1</sub>	H <sub>2</sub>	H <sub>2</sub>	H <sub>3</sub>	H <sub>3</sub>
DN 10	3/8"	98	32,5	H <sub>1</sub> =	94	H <sub>2</sub> =	97	H <sub>3</sub> =	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

Typee	Material Seat/Cone	Design	Port	Housing form	3/8"		1/2"		3/4"		1"		Sensor Number	Dimensional drawing
					Item no.		Item no.		Item no.		Item no.			
154 T				E	<b>12201</b>		<b>12202</b>		<b>12203</b>		—		1	2
154 T				D	<b>12211</b>		<b>12212</b>		<b>12213</b>		—		1	1
154 T	NIRO			E	<b>12241</b>		<b>12242</b>		<b>12243</b>		12244		2	6
154 T	NIRO			D	<b>12251</b>		<b>12252</b>		<b>12253</b>		12254		2	5
154 T	NIRO		FD	D	12996		12997		12998		—		2	7
154 T		VE		E	12221		12222		12223		—		2	6
154 T		VE		D	12231		12232		12233		—		2	5
154 T	NIRO	VE		E	12261		12262		12263		—		2	6
154 T	NIRO	VE		D	12271		12272		12273		—		2	5

Standard valves: Bold  
 Custom-made valves: Normal

## Special spanner

Type	Item no.	Use
MST	<b>14060</b>	Installation spanner for the sensor no.1 of the thermostat valves type 154 T (without NIRO or VE)
IS-T	<b>14061</b>	Allen Key (hexagon socket screw spanner) for the stud screw of the thermostat sensor
VE-T 154	<b>14062</b>	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.

<b>Seat/Cone material</b>		Brass and soft packing
	NIRO:	Stainless steel and soft packing Cone seal is not mineral oil resistant
<b>Design</b>		Normal design
	VE:	Continuously adjustable presetting (please make a note of Kv-values)
<b>Thermostat sensor</b>		Separate order must be placed for the same! (see pages 46 and 47)
<b>Option</b>	SF:	Valve in „silicon-free“ design



## 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.		Item no.		Item no.		Item no.			
154 U	NIRO				<b>12751</b>		<b>12752</b>		—		—		2	5/6
154 U	NIRO	VE			12761		12762		12763		—		2	5/6
154 U		VE			12771		12772		12773		—			

Standard valves: Bold

Custom-made valves: Normal

## Special spanner

Type	Item no.	Price [EUR]	Use
VE-T 154	<b>14062</b>		Pre-setting spanner for thermostat valves and retrofit kits with pre-setting [VE]

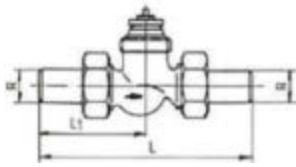


## Thermostat Valve PN 25

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.

<b>Design</b>	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
<b>Housing material</b>		Bronze CC480K (2.1050)
<b>Seat/Cone material</b>	NIRO:	Bronze / Brass and soft packing Stainless steel and soft packing Cone seal is not mineral oil resistant
<b>Design</b>		Normal design, i.e. seat diameter proportionate to nominal diameter
	6/10/12:	Seat diameter approx. 6 mm/10 mm/12 mm
	VE:	Continuously adjustable presetting (please make a note of Kv-values)
<b>Ports</b>		flat sealing screw joint on both sides, with welded nipple, seal and union nut
<b>Dirt filter in inlet</b>		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.
<b>Housing form</b>	E:	Angular form
	D:	Straight form
<b>Thermostat sensor</b>		Separate order must be placed for the same! (see pages 46 and 47)
<b>Option</b>	SF:	Valve in „silicon-free“ design



Size	R	L	L <sub>1</sub>	Fixed sensor		Remote sensor		Distance transmitter	
				H <sub>1</sub>	H <sub>1</sub>	H <sub>2</sub>	H <sub>2</sub>	H <sub>3</sub>	H <sub>3</sub>
DN 10	17	184	92		120		123,5		100,5
DN 15	21	184	92	H <sub>1</sub> =	120	H <sub>2</sub> =	123,5	H <sub>3</sub> =	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.		Item no.		Item no.			
126 T		VE	E	13021		13022		13023		3	2
126 T		VE	D	13031		13032		13033		3	1
126 T	NIRO		E	<b>13041</b>		13042		13043		3	2
126 T	NIRO		D	<b>13051</b>		13052		13053		3	1
126 T	NIRO	10	E	—		<b>13048</b>		—		3	2
126 T	NIRO	10	D	—		<b>13058</b>		—		3	1
126 T	NIRO	12	E	—		—		<b>13045</b>		3	2
126 T	NIRO	12	D	—		—		<b>13055</b>		3	1
126 T	NIRO	VE	E	13061		13062		13063		3	2
126 T	NIRO	VE	D	13071		13072		13073		3	1
126 HT		VE	E	13221		13222		13223		4	4
126 HT		VE	D	13231		13232		13233		4	3
126 HT	NIRO		E	<b>13241</b>		13242		13243		4	4
126 HT	NIRO		D	<b>13251</b>		13252		13253		4	3
126 HT	NIRO	10	E	—		<b>13247</b>		—		4	4
126 HT	NIRO	10	D	—		<b>13257</b>		—		4	3
126 HT	NIRO	12	E	—		—		<b>13245</b>		4	4
126 HT	NIRO	12	D	—		—		<b>13255</b>		4	3
126 HT	NIRO	VE	E	13261		13262		13263		4	4
126 HT	NIRO	VE	D	13271		13272		13273		4	3
126 HTT	NIRO	6	E	<b>13421</b>		<b>13422</b>		<b>13423</b>		5	6
126 HTT	NIRO	6	D	<b>13431</b>		<b>13432</b>		<b>13433</b>		5	5
126 HTT	NIRO	6/1	E	—		<b>13472</b>		<b>13473</b>		5	6
126 HTT	NIRO	6/1	D	—		<b>13470</b>		<b>13463</b>		5	5
Filter				<b>14031</b>		<b>14032</b>		<b>14033</b>			

Standard valves: Bold  
 Custom-made valves: Normal

## Special spanner

Type	Item no.	Use
IS-T	<b>14061</b>	Allen Key (hexagon socket screw spanner) for the stud screw of the thermostat sensor
VE-T 120	<b>14063</b>	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.

<b>Design</b>	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
<b>Seat/Cone material</b>	NIRO:	Stainless steel and soft packing Cone seal is not mineral oil resistant
<b>Dirt filter in inlet</b>		The sealing surfaces are made of soft material. A filter in the inlet of valves increases the durability.
<b>Thermostat sensor</b>		Separate order must be placed for the same! (see pages 46 and 47)
<b>Option</b>	SF:	Valve in „silicon-free“ design

## 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.		Item no.		Item no.			
120 U	NIRO			<b>13511</b>		<b>13512</b>		—		3	1/2
120 HU	NIRO			<b>13571</b>		<b>13572</b>		—		4	3/4
Filter				<b>14031</b>		<b>14032</b>		<b>14033</b>			

Standard valves: Bold  
 Custom-made valves: Normal

## Special spanner

Type	Item no.		Use
VE-T 120	<b>14063</b>		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

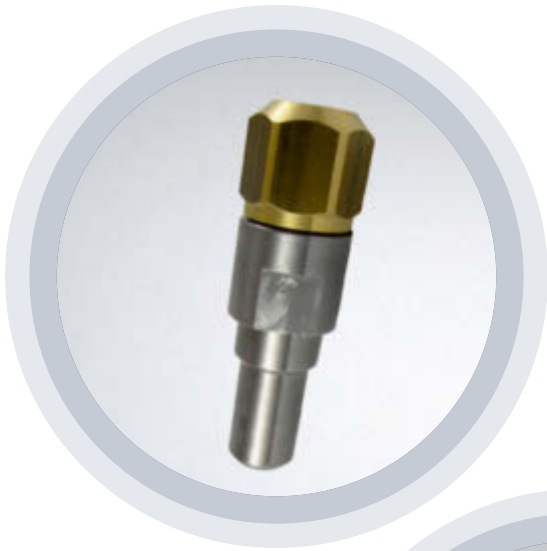
## Thermostat sensor

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.	Dimensional drawing
Fixed sensor	1			x					<b>14071</b>	A
Fixed sensor	2				x				<b>14072</b>	A
Fixed sensor	3					x			<b>14073</b>	A
Fixed sensor	4						x		<b>14074</b>	A
Fixed sensor	5							x	<b>14075</b>	A
Fixed sensor	1	S		x					<b>140711</b>	A
Fixed sensor	2	S			x				<b>140721</b>	A
Fixed sensor	3	S				x			<b>140731</b>	A
Fixed sensor	4	S					x		<b>140741</b>	A
Fixed sensor	5	S						x	<b>140751</b>	A
Fixed sensor	1	SK		x					<b>140712</b>	A
Fixed sensor	2	SK			x				<b>140722</b>	A
Fixed sensor	3	SK				x			<b>140732</b>	A
Fixed sensor	4	SK					x		<b>140742</b>	A
Fixed sensor	5	SK						x	<b>140752</b>	A
Remote sensor	1		2 m	x					<b>14081</b>	B
Remote sensor	2		2 m		x				<b>14082</b>	B
Remote sensor	3		2 m			x			<b>14083</b>	B
Remote sensor	4		2 m				x		<b>14084</b>	B
Remote sensor	5		2 m					x	<b>14085</b>	B
Remote sensor	1		4 m	x					140814	B
Remote sensor	2		4 m		x				140824	B
Remote sensor	3		4 m			x			140834	B
Remote sensor	4		4 m				x		140844	B
Remote sensor	5		4 m					x	140854	B
Remote sensor	1		6 m	x					140816	B
Remote sensor	2		6 m		x				140826	B
Remote sensor	3		6 m			x			140836	B
Remote sensor	4		6 m				x		140846	B
Remote sensor	5		6 m					x	140856	B
Distance transmitter			2 m						<b>14006</b>	C
Distance transmitter			4 m						140064	C
Distance transmitter			6 m						140066	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.
S for Sensor 1, 2, 5	x	x			x	<b>140211</b>
S for Sensor 3			x			<b>140231</b>
S for Sensor 4				x		<b>140241</b>
SK for Sensor 1, 2, 5	x	x			x	<b>140212</b>
SK for Sensor 3			x			<b>140232</b>
SK for Sensor 4				x		<b>140242</b>

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

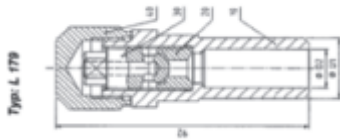
### Design Cap/Cone

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

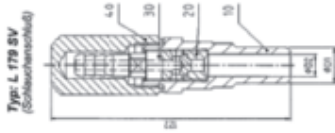
### Option

SF: Valve in „silicon-free“ design





Size	D2	D1
DN 10	11	18
DN 15	14	22



Size	D2	D1
DN 10	11	18
DN 15	14	22

## Discharge valve PN 25 and PN 40

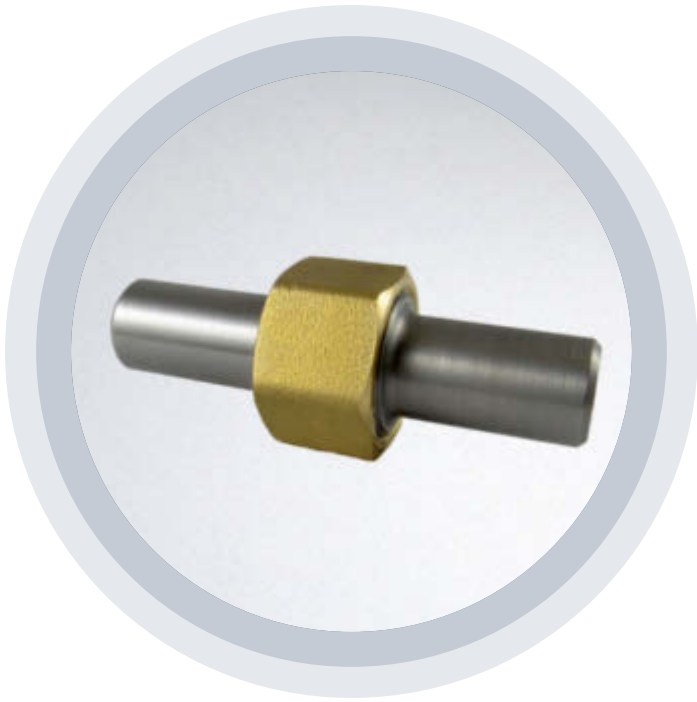
Type	Material Seat/Cone	Cap/Cone	3/8"		1/2"		1"		Dimensional drawing
			Item no.		Item no.		Item no.		
L 179	NIRO		<b>13795</b>		<b>13797</b>		—		1
L 179	NIRO	SV	<b>13796</b>		<b>13798</b>		—		2
L 179 VA			13708		13709		—		
L 179 VA/SV			13713		13714		—		
L 183	NIRO		—		13782		13784		

For steam we recommend the design L 179 VA

## Special spanner

Type	Item no.	Use
DS 179	<b>14044</b>	Double spanner for the sealing cap and the cone of the discharge valves Figure L 179

Standard valves: Bold  
Custom-made valves: Normal

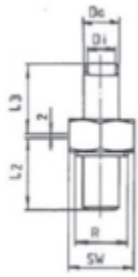


## Radiator screw joint PN 25 and PN 40

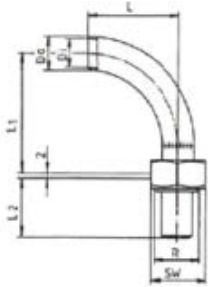
Type RV 191

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

<b>Material</b>		Steel
<b>Housing form</b>	E:	Angular form
	D:	Straight form
<b>Option</b>	SF:	Radiator screw joint in „silicon-free“ design



Size	H	L	L <sub>1</sub>	L <sub>2</sub>	L <sub>3</sub>	R	SW	SW <sub>1</sub>	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 <sub>1</sub>	L <sub>2</sub>	L <sub>3</sub>	R	SW	SW <sub>1</sub>	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

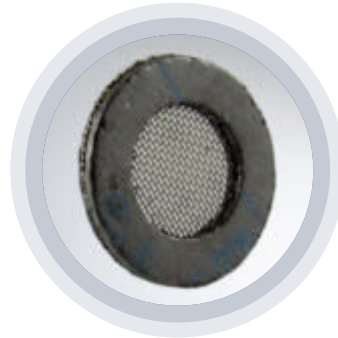
Type	Housing form	3/8"		1/2"		3/4"		1"		1 1/4"		1 1/2"		Dimensional drawing
		Item no.		Item no.		Item no.		Item no.		Item no.		Item no.		
RV 191	E	13821		13822		13823		13824		13825		13826		4
RV 191	D	<b>13831</b>		<b>13832</b>		<b>13833</b>		<b>13834</b>		<b>13835</b>		13836		3

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.		Item no.		Item no.	
Filter	14031		14032		14033	



Brief description	Item no.	Use
Handwheel 70 x 11 mm, plastic	<b>4211001</b>	Refer Figure 154-157 H, 3/8" to 3/4"
Handwheel 75 x 11 mm, plastic	<b>4211002</b>	Refer Figure 154-157 H, 1" to 1 1/4"; Refer Figure 124 H, 3/8" to 1"
Handwheel 75 x 12 mm, plastic	<b>4211003</b>	Refer Figure 120-123 H, 3/8" to 3/4"
Handwheel 85 x 12 mm, plastic	<b>4211004</b>	Refer Figure 120-123 H, 1" to 1 1/2"
Cap handwheel	<b>4211018</b>	Refer Figure 154 K



Brief description	Item no.	Use
Head screw with flange 8 mm	<b>4211051</b>	for the spindle of valves of handwheel design Refer Figure 154-157 H and Figure 124 H
Head screw without flange 8 mm	<b>4211052</b>	for the spindle of valves of socket spanner design Refer Figure 154-157 S
Head screw with flange 9 mm	<b>4211053</b>	for the spindle of valves of handwheel design Refer Figure 120-123 H
Head screw without flange 9 mm	<b>4211054</b>	for the spindle of valves of socket spanner design Refer Figure 120-123 S



Brief description	Item no.	Use
Welding nipple 3/8"	<b>4208001</b>	also in Nut (N) and Spring (F) or with spanner flat (SW) and male thread Enquire about additional cost
Welding nipple 1/2"	<b>4208002</b>	
Welding nipple 3/4"	<b>4208003</b>	
Welding nipple 1"	<b>4208004</b>	
Welding nipple 1 1/4"	<b>4208005</b>	
Welding nipple 1 1/2"	<b>4208006</b>	



Brief description	Item no.		Use
Union Nut 3/8", 1/2"	<b>4208351</b>		
Union Nut 3/4"	<b>4208353</b>		
Union Nut 1"	<b>4208354</b>		
Union Nut 1 1/4"	<b>4208355</b>		
Union Nut 1 1/2"	<b>4208356</b>		



Brief description	Item no.		Use
Lock nut 3/8", 1/2"	<b>4208301</b>	Weight R 7/8", SW 36	
Lock nut 3/4"	<b>4208303</b>	Weight R 1 1/8", SW 46	
Lock nut 1"	<b>4208304</b>	Weight R 1 1/4", SW 50	
Lock nut 1 1/4"	<b>4208305</b>	Weight R 1 3/4", SW64	
Lock nut 1 1/2"	<b>4208306</b>	Weight R 2", SW 70	



Brief description	Item no.		Use
Sealing ring for 3/8", 1/2"	<b>4207131</b>	27,5 x 16 x 1,5	
Sealing ring for 3/4"	<b>4207132</b>	23 x 34,5 x 1,5	
Sealing ring for 1"	<b>4207133</b>	27 x 38,5 x 1,5	
Sealing ring for 1 1/4"	<b>4207134</b>	36 x 50,5 x 1,5	
Sealing ring for 1 1/2"	<b>4207135</b>	42 x 56,5 x 1,5	

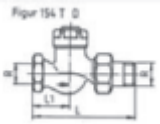
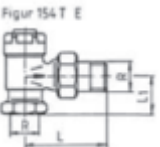
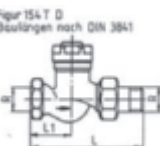
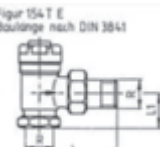
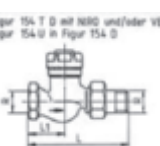
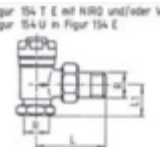
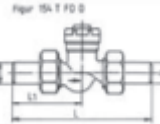
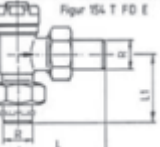
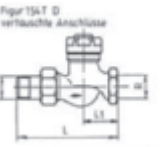
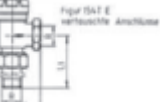


Brief description	Item no.		Use
O-ring connector comp.	<b>4209095</b>	154 T spindle length 19 mm	
O-ring connector comp.	<b>4453013</b>	154 T/NIRO + 154 U spindle length 42.8 mm	
O-ring connector comp.	<b>4453015</b>	154 T/VE + U/VE; 126 T/VE spindle length 36,5 mm	
O-ring connector comp.	<b>4453017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

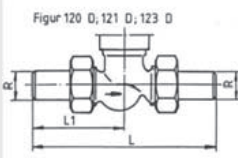
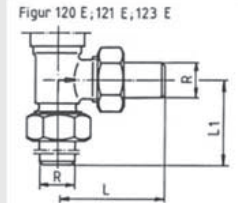
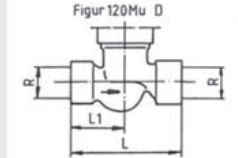
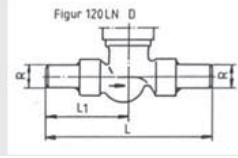
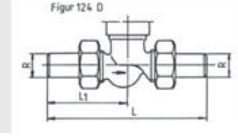
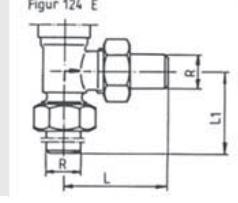
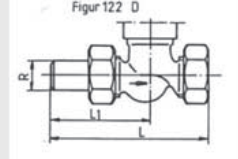
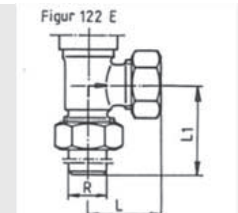


# PRUSS-Low-Pressure Valves PN 10

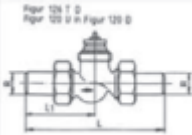
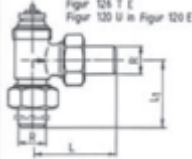
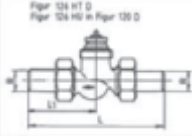
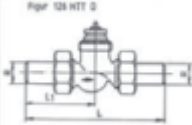
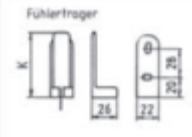
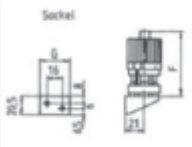
Manual valve	Size	R	L	L <sub>1</sub>	H		K		S				
					Handrad Ø D <sub>1</sub>	H <sub>1</sub>	Kappenhandrad Ø 50	H <sub>2</sub>	Steckschlüssel- Aufsatz	H <sub>3</sub>			
	DN 10	3/8"	98	32.5	H=	89	D=	70	H=	89	H=	94	
	DN 15	1/2"	98	32.5		89				70		89	94
	DN 20	3/4"	107	37.5		90				70		90	95
	DN 25	1"	129	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 <sub>1</sub>	Fixed sensor		Remote sensor		Distance transmitter	
					H <sub>1</sub>	H <sub>2</sub>	H <sub>3</sub>	H <sub>4</sub>	H <sub>5</sub>	H <sub>6</sub>
 Figur 154 T D	DN 10	3/8"	98	32.5	H <sub>1</sub> =	94	H <sub>2</sub> =	97	H <sub>3</sub> =	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 <sub>1</sub> =	87	H <sub>2</sub> =	90	H <sub>3</sub> =	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 <sub>1</sub> =	118.5	H <sub>2</sub> =	121.5	H <sub>3</sub> =	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 Baulänge nach DIN 3841	DN 10	3/8"	52	22	H <sub>1</sub> =	108.5	H <sub>2</sub> =	111.5	H <sub>3</sub> =	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 D in Figur 154 D	DN 10	3/8"	98	32.5	H <sub>1</sub> =	118.5	H <sub>2</sub> =	121.5	H <sub>3</sub> =	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 E in Figur 154 E	DN 10	3/8"	68	30.5	H <sub>1</sub> =	108.5	H <sub>2</sub> =	111.5	H <sub>3</sub> =	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 <sub>1</sub> =	118.5	H <sub>2</sub> =	121.5	H <sub>3</sub> =	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 <sub>1</sub> =	108.5	H <sub>2</sub> =	111.5	H <sub>3</sub> =	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 <sub>1</sub> =	118.5	H <sub>2</sub> =	121.5	H <sub>3</sub> =	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 <sub>1</sub> =	108.5	H <sub>2</sub> =	111.5	H <sub>3</sub> =	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

# PRUSS- High Pressure Valves

Manual valve	Size	R	L	L <sub>1</sub>	H		S			
					Handrad φD H <sub>1</sub>	Steckschlüssel- Aufsatz H <sub>2</sub>				
 <p>Figur 120 D, 121 D, 123 D</p>	DN 10	17	184	92	H=	D=	H <sub>1</sub> =	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
 <p>Figur 120 E, 121 E, 123 E</p>	DN 10	17	92	87	H=	D=	H <sub>1</sub> =	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
 <p>Figur 120Mu D</p>	DN 10	3/8"	80	40	H=	D=	H <sub>1</sub> =	117		
	DN 15	1/2"	80	40				119	75	117
	DN 20	3/4"	90	45				123	75	121
	DN 25	1"	105	52.5				133	85	132
	DN 32	1 1/4"	125	62.5				140	85	136
	DN 40	1 1/2"	140	70				154	100	153
 <p>Figur 120LN D</p>	DN 10	17	380	190	H=	D=	H <sub>1</sub> =	117		
	DN 15	21	380	190				119	75	117
	DN 20	26	390	195				123	75	121
	DN 25	33	405	202.5				133	85	132
	DN 32	42	425	212.5				140	85	136
	DN 40	48	440	220				154	100	153
 <p>Figur 124 D</p>	DN 10	17	184	92	H=	D=	H <sub>1</sub> =	133		
	DN 15	21	184	92				133	75	133
	DN 20	26	194	97				137	75	133
	DN 25	33	209	104.5				152	85	136
 <p>Figur 124 E</p>	DN 10	17	92	87	H=	D=	H <sub>1</sub> =	119.5		
	DN 15	21	92	87				119.5	75	119.5
	DN 20	26	92	89.5				123	75	123
	DN 25	33	100	99				134	85	134
 <p>Figur 122 D</p>	DN 10	17	137.5	92	H=	D=	H <sub>1</sub> =	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
 <p>Figur 122 E</p>	DN 10	17	45.5	87	H=	D=	H <sub>1</sub> =	103		
	DN 15	21	45.5	87				106	75	103
	DN 20	26	47	89.5				110	75	107
	DN 25	33	55	99				115	85	114
	DN 32	42	63	104				130	85	126



Thermostat valve	Size	R	L	L <sub>1</sub>	Fixed sensor		Remote sensor		Distance transmitter	
					H <sub>1</sub>	H <sub>2</sub>	H <sub>3</sub>			
	DN 10	17	184	92	H=	120	H <sub>1</sub> =	123.5	H <sub>1</sub> =	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 <sub>1</sub> =	105.5	H <sub>1</sub> =	109	H <sub>1</sub> =	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 <sub>1</sub> =	127.5	H <sub>1</sub> =	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 <sub>1</sub> =	109.5	H <sub>1</sub> =	113	H <sub>1</sub> =	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 <sub>1</sub> =	137.5	H <sub>1</sub> =	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 <sub>1</sub> =	119.5	H <sub>1</sub> =	123	H <sub>1</sub> =	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 <sub>1</sub>	L <sub>2</sub>	L <sub>3</sub>	R	SW	SW <sub>1</sub>	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



# PRUSS

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