

The general recommendations below is based upon fluids described in the standard SSG 1650. In this standard it is possible to find more information about each individual fluid such as content of different chemicals, concentration etc.

For hand-operated, and on-off valves we have generally recommended ball valves in smaller sizes and butterfly valves for larger sizes. If bi-directional shut-off function is not required, ball segment valves can be used as an alternative for ball valves.

See the [Valve Guide](#) for general data about the Somas products.

The following media groups are to be find below.

- A [Additive \(undefined\)](#)
- B [Back water \(white water\)](#)
- C [Condensate](#)
- D [Effluent](#)
- G [Gas](#)
- K [Chemicals i liquid phase and as solids](#)
- L [Liquor, liquor by products](#)
- M [Sludges and pigments](#)
- O [Oil, oil derivates, lubricating oil, fossil fuels](#)
- P [Pulp and fibre suspensions](#)
- S [Steam](#)
- V [Vapour](#)
- W [Water](#)

M	=	Manual
O-O	=	On-off
C	=	Control

<b>Medium group A</b>		<b>Max P bar</b>	<b>Max t degr.C</b>	<b>M</b>	<b>O-O</b>	<b>C</b>	<b>Valve type</b>	<b>Dimensions DN</b>	<b>Seat Material</b>	<b>Remarks</b>
A12	Dispersant	6	50	x	x	x	H3	10-100	PTFE	
					x	x	KVT/KVTW	25-100	PTFE	
A20	Fatty Acid	6	50	x	x	x	H3	10-100	PTFE	
				x	x	x	KVT/KVTW	25-100	PTFE	
A21	Dyes	6	40	x	x	x	H3	10-100	PTFE	
				x	x	x	KVT/KVTW	25-100	PTFE	
A30	Rozin size	6	90	x	x	x	KVT/KVTW	25-150	Stellite	
				x	x	x	SKV	25-150	Stellite	
A31	Hardener	6	50	x	x	x	KVT/KVTW	25-150	PTFE	
				x	x	x	SKV	25-150	PTFE53	
A42	Casein	6	50	x	x	x	KVT/KVTW	25-150	PTFE	
				x	x	x	SKV	25-150	PTFE53	
A48	Latex 50%	6	25	x	x	x	KVT/KVTW	25-150	PTFE	
				x	x	x	H3	10-100	PTFE	
				x	x	x	SKV	125-150	PTFE53	
A77	Starch	6	90	x	x	x	KVT/KVTW	25-150	PTFE	
				x	x	x	H3	10-100	PTFE	
				x	x	x	SKV	125-150	PTFE53	
A81	Tenside	6	50	x	x	x	KVT/KVTW	25-150	PTFE	
				x	x	x	SKV	25-150	PTFE53	

**Medium group B**
**Back water** (page 1/3)

		<b>Max P bar</b>	<b>Max t degr.C</b>	<b>M</b>	<b>O-O</b>	<b>C</b>	<b>Valve type</b>	<b>Dimensions DN</b>	<b>Seat Material</b>	<b>Remarks</b>
B01	Back water wood room and ship washer	4	50	x x	x x	x x	KVT/KVTW MTV	25-100 >100	PTFE SS2377	
B02	Back water SPG (stone ground wood pulp)	4	70	x x	x x	x x	KVT/KVTW MTV	25-100 >100	PTFE SS2377	
B03	Back water RPM (refiner mech. Pulp)	5	80	x x	x x	x x	KVT/KVTW MTV	25-100 >100	PTFE SS2377	
B04	Backwater CMP (chem-mech. Pulp)	5	80	x x	x x	x x	KVT/KVTW MTV	25-100 >100	PTFE SS2377	
B05	Back water TMP (Termo-mech.pulp)	5	80	x x	x x	x x	KVT/KVTW MTV	25-100 >100	PTFE SS2377	
B06	Back water CTMP (Chemi-termomech. pulp)	6	90	x x	x x	x x	KVT/KVTW MTV	25-100 >100	PTFE SS2377	
B10	Back water, sec. fibre mixed)	5	70	x x	x x	x x	KVT/KVTW MTV	25-100 >100	PTFE SS2377	
B15	Back water, sec. fibre mechanical.	5	70	x x	x x	x x	KVT/KVTW MTV	25-100 >100	PTFE SS2377	
B20	Back water, sec. fibre unbleached cellulose woodfree.	5	70	x x	x x	x x	KVT/KVTW MTV	25-100 >100	PTFE SS2377	
B25	Back water, sec. fibre bleached cellulose woodfree.	5	70	x x	x x	x x	KVT/KVTW MTV	25-100 >100	PTFE SS2377	
B30	Back water, un-bleached, sulphate	5	80	x x	x x	x x	KVT/KVTW MTV	25-100 >100	PTFE SS2377	
B31	Back water, bleached sulphate	5	80	x x	x x	x x	KVT/KVTW MTV	25-100 >100	PTFE SS2377	

**Medium group B**
**Back water** (page 2/3)

		<b>Max P bar</b>	<b>Max t degr.C</b>	<b>M</b>	<b>O-O</b>	<b>C</b>	<b>Valve type</b>	<b>Dimensions DN</b>	<b>Seat Material</b>	<b>Remarks</b>
B34	Back water,unbleached mag. Sulphite	6	80	x	x	x	KVT/KVTW	25-100	PTFE	
				x	x	x	MTV	>100	SS2377	
B35	Back water Un- bleached sulphite	6	70	x	x	x	KVT/KVTW	25-100	PTFE	
				x	x	x	MTV	>100	SS2377	
B36	Back water, bleached mag. sulphite	6	70	x	x	x	KVT/KVTW	25-100	PTFE	
				x	x	x	MTV	>100	SS2377	
B37	Back water bleached sodium sulphide	3	80	x	x	x	KVT/KVTW	25-100	PTFE	
				x	x	x	MTV	>100	SS2377	
B40	Back water NSSC (neutrale sulphite)	3	100	x	x	x	KVT/KVTW	25-100	PTFE	
				x	x	x	MTV	>100	SS2377	
B52	Back water, chloride dioxide stage	5	95	x	x	x	KVT/KVTW	25-100	PTFE	SS2378
				x	x	x	MTV	>100	SS2378	SS2378
B53	Back water, soda stage	5	85	x	x	x	KVT/KVTW	25-100	PTFE	
				x	x	x	MTV	>100	SS2377	
B54	Back water, hypo- chlorite stage	5	70	x	x	x	KVT/KVTW	25-100	PTFE	
				x	x	x	MTV	>100	SS2377	
B57	Back water oxygen stage	6	80	x	x	x	KVT/KVTW	25-100	PTFE	
				x	x	x	MTV	>100	SS2377	
B58	Back water peroxide stage	5	80	x	x	x	KVT/KVTW	25-100	PTFE	
				x	x	x	MTV	>100	SS2377	
B59	Back water hydro- sulphite stage	5	70	x	x	x	KVT/KVTW	25-100	PTFE	
				x	x	x	MTV	>100	SS2377	
B60	Back water ozone stage	10	50	x	x	x	KVT/KVTW	25-100	PTFE	
				x	x	x	MTV	>100	SS2377	
B62	Back water, shelating stage.	4	70	x	x	x	KVT/KVTW	25-100	PTFE	
				x	x	x	MTV	>100	SS2377	
B70	Back water, bleached pulp	5	50	x	x	x	KVT/KVTW	25-100	PTFE	
				x	x	x	MTV	>100	SS2377	
B80	Back water, pulp drier	5	50	x	x	x	KVT/KVTW	25-100	PTFE	
				x	x	x	MTV	>100	SS2377	

**Medium group B**
**Back water** (page 3/3)

	Max P bar	Max t degr.C	M	O-O	C	Valve type	Dimensions DN	Seat Material	Remarks
B85	Back water, paper machine	5	50	x	x	x	KVT/KVTW	25-100	PTFE
B86	Back water, clear filtrate	5	50	x	x	x	MTV	>100	SS2377
B87	Back water, cloudy filtrate (prefiltrate)	5	50	x	x	x	KVT/KVTW	25-100	PTFE
				x	x	x	MTV	>100	SS2377

**Medium group C**
**Condensate** (page 1/2)

		<b>Max P bar</b>	<b>Max t degr.C</b>	<b>M</b>	<b>O-O</b>	<b>C</b>	<b>Valve type</b>	<b>Dimensions DN</b>	<b>Seat Material</b>	<b>Remarks</b>
C01	Condensate, live steam Low pressure < 5 bar.	5	160	x	x	x	KVT/KVTW	25-100	PTFE53	
C02	Condensate, live steam medium pressure 5-13 bar	13	195	x	x	x	KVT/KVTW	25-100	Stellite	
				x	x	x	MTV	>100	SS2377	HC-shaft
C03	Condensate, live steam high pressure 13-40 bar	40	255	x	x		SKV	25-100	Stellite	80-100 max
PN40										
C04	Condensate, live steam high pressure >40 bar	70	290	x	x	x	KVT/KVTW	25-100	Stellite	
C05	Condensate, deionised	6	150	x	x		KVT	25-150	Stellite	
					x	x	SKV	25-100	PTFE53	
					x	x	MTV	>100	PTFE53	
C10	Condensate, live steam	8	175	x	x		SKV	25-100	SS2377	HC-shaft
					x	x	KVT/KVTW	25-100	PTFE53	
					x	x	MTV	>100	PTFE53	
C11	Condensate, live steam oily	6	150	x	x		SKV	25-100	PTFE53	
					x	x	KVT/KVTW	25-100	PTFE53	
					x	x	MTV	>100	SS2377	
C15	Condensate, steaming vessel	4	150	x	x		SKV	25-100	PTFE53	
					x	x	x	KVT/KVTW	25-100	PTFE53
					x	x	MTV	>100	SS2377	
C20	Condensate, digester sulphate	13	195	x	x		SKV	25-100	PTFE53	
					x	x	KVT/KVTW	25-100	PTFE53	
					x	x	MTV	>100	SS2377	HC-shaft
C25	Condensate, digester sulphite	7	150	x	x		SKV	25-100	PTFE53	
					x	x	KVT/KVTW	25-100	PTFE53	
					x	x	MTV	>100	SS2377	HC-shaft
C30	Condensate, blowing steam (sulphate)	4	90	x	x		SKV	25-100	PTFE53	
					x	x	x	KVT/KVTW	25-100	PTFE53
					x	x	MTV	>100	SS2377	

**Medium group C**
**Condensate** (page 2/2)

		Max P bar	Max t degr.C	M	O-O	C	Valve type	Dimensions DN	Seat Material	Remarks
C35	Condensate TMP			x	x	x	SKV	25-100	PTFE53	
				x	x	x	KVT/KVTW	25-100	PTFE53	
				x	x	x	MTV	>100	SS2377	
C40	Condensate evaporation plant, light contaminated	3	75	x	x	x	SKV	25-100	PTFE53	
				x	x	x	KVT/KVTW	25-100	PTFE53	
				x	x	x	MTV	>100	SS2377	
C41	Condensate evaporation plant, contaminated	5	75	x	x	x	SKV	25-100	PTFE53	
				x	x	x	KVT/KVTW	25-100	PTFE53	
				x	x	x	MTV	>100	SS2377	
C42	Condensate evaporation plant, heavy contaminated	5	60	x	x	x	SKV	25-100	PTFE53	
				x	x	x	KVT/KVTW	25-100	PTFE53	
				x	x	x	MTV	>100	SS2377	
C43	Condensate evaporation plant to stripper	6	60	x	x	x	SKV	25-100	PTFE53	
				x	x	x	KVT/KVTW	25-100	PTFE53	
				x	x	x	MTV	>100	SS2377	
C45	Condensate evaporation plant sulphite	5	110	x	x	x	SKV	25-100	PTFE53	
				x	x	x	KVT/KVTW	25-100	PTFE53	
				x	x	x	MTV	>100	SS2377	
C47	Condensate stripped	6	80	x	x	x	SKV	25-100	PTFE53	
				x	x	x	KVT/KVTW	25-100	PTFE53	
				x	x	x	MTV	>100	SS2377	
C50	Condensate, turpentine 2		40	x	x	x	SKV	25-100	PTFE53	
				x	x	x	KVT/KVTW	25-100	PTFE53	
				x	x	x	MTV	>100	SS2377	
C70	Condensate, acid	6	100	x	x	x	SKV	25-100	PTFE53	
				x	x	x	KVT/KVTW	25-100	PTFE53	
				x	x	x	MTV	>100	SS2377	



## Medium group D Effluent

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The fluid is basically water with some impurities. Valve selection same as for water. [See section W](#)

<b>Medium group G</b>		<b>Max P bar</b>	<b>Max t degr.C</b>	<b>M</b>	<b>O-O</b>	<b>C</b>	<b>Valve type</b>	<b>Dimensions DN</b>	<b>Seat Material</b>	<b>Remarks</b>
G02	Gas, propane	25	40	x	x		H3	10-100	PTFE	
G04	Gas mixed LPG	5,5	40	x	x	x	KVT/KVTW	25-100	PTFE	
G20	Gas, chlorine dioxide	0,1	40	x	x	x	KVT/KVTW	25-100	PTFE	Titanium
G30	Gas nitrogen	8	40	x	x	x	KVT/KVTW	25-100	PTFE	Titanium
G35	Gas, oxygen	25	80	x	x	x	KVT/KVTW	25-100	PTFE	Degreased
G40	Gas, sulphuroxide dry	2	200	x	x	x	KVT/KVTW	25-100	PTFE53	
G41	Gas, sulphuroxide wet	8	40	x	x	x	KVT/KVTW	25-150	PTFE	Titanium
G50	Gas with sulphuric content	1	100	x	x		SKV	25-100	PTFE53	
				x	x	x	KVT/KVTW	25-100	PTFE	
				x	x	x	MTV	>100	SS2377	
G55	Gas with sulphuric content	1	100	x	x		SKV	25-100	PTFE53	
				x	x	x	KVT/KVTW	25-100	PTFE	
				x	x	x	MTV	>100	SS2377	
G70	Air, vacuum system	-1	50	x	x		H3	10-100	PTFE	
					x		KVT/KVTW	25-100	PTFE	
				x	x	x	MTV	>100	PTFE	
G75	Compressed air mill	8	70	x	x		H3	10-100	PTFE	
					x		KVT/KVTW	25-100	PTFE	
				x	x	x	MTV	>100	PTFE	
G76	Compressed air, instrument	8	25	x	x		H3	10-100	PTFE	
					x		KVT/KVTW	25-100	PTFE	
				x	x	x	MTV	>100	PTFE	
G77	Compressed air preferential system	8	25	x	x		H3	10-100	PTFE	
					x		KVT/KVTW	25-100	PTFE	
				x	x	x	MTV	>100	PTFE	

**Group K**
**Chemicals** (page 1/2)

	<b>Max P bar</b>	<b>Max t degr.C</b>	<b>M</b>	<b>O-O</b>	<b>C</b>	<b>Valve type</b>	<b>Dimensions DN</b>	<b>Seat Material</b>	<b>Remarks</b>
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**Chemicals in liquid phase an as solids**

K04	Alum solution	6	25	x	x	x	KVT/KVTW	25-100	PTFE
K06	Ammonia solutions	6	50	x	x	x	H3	10-100	PTFE
				x	x	x	KVT/KVTW	25-100	PTFE
				x	x	x	MTV	> 100	SS2377
K12	Hydrazine	6	20	x	x	x	H3	10-100	PTFE
				x	x	x	KVT/KVTW	25-100	PTFE
K18	Calcium hypochlorite	6	40	x	x	x	KVT/KVTW	25-100	PTFE
K22	Calcium chlorite	6	40	x	x	x	KVT/KVTW	25-100	PTFE
				x	x	x	MTV	>100	PTFE
K24	Potassium permangaanat	3	25	x	x	x	KVT/KVTW	25-100	PTFE
K27	Lime unslacked	3	50	x	x	x	SKV	25>	PTFE53
				x	x	x	KVT/KVTW	25>	PTFE53
K32	Chloride dioxide solution	8	45	x	x	x	KVT/KVTW	25-100	PTFE
				x	x	x	MTV	>100	PTFE
K33	Chloride dioxide solution	5	50	x	x	x	KVT/KVTW	25-100	PTFE
				x	x	x	MTV	>100	PTFE
K40	Methanol	5	60	x	x	x	KVT/KVTW	25-100	PTFE
				x	x	x	MTV	>100	PTFE
K44	Caustic soda	6	60	x	x	x	KVT/KVTW	25-100	PTFE
				x	x	x	MTV	>100	SS2377
K48	Sodium bisulphite	5	100	x	x	x	KVT/KVTW	25-100	PTFE
				x	x	x	MTV	>100	SS2377
K52	Sodium dithionite	6	50	x	x	x	SKV	25-100	PTFE53
				x	x	x	KVT/KVTW	25-100	PTFE
				x	x	x	MTV	>100	SS2377
K54	Sodium formate	6	20	x	x	x	SKV	25-100	PTFE53
				x	x	x	KVT/KVTW	25-100	PTFE
				x	x	x	MTV	>100	SS2377

**Medium group K  
Chemicals** (page 2/2)

	Max P bar	Max t degr.C	M	O-O	C	Valve type	Dimensions DN	Seat Material	Remarks
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**Chemicals in liquid phase an as solids**

K56	Trisodium		x	x		SKV	25-100	PTFE53	
			x	x	x	KVT/KVTW	25-100	PTFE	
K58	Sodium hypochorite	5	50	x	x	KVT/KVTW	25-100	PTFE	
			x	x	x	MTV	>100	PTFE	
K62	Sodium chlorate	5	80	x	x	SKV	25-100	PTFE53	
			x	x	x	KVT/KVTW	25-100	PTFE	
			x	x	x	MTV	>100	SS2377	
K60	Sodium carbonate	5	100	x	x	KVT/KVTW	25-100	PTFE	
			x	x	x	MTV	>100	SS2377	
K64	Sodium chlorite	3	60	x	x	KVT/KVTW	25-100	PTFE	Titanium
			x	x	x	MTV	>100	PTFE	Titanium
K68	Sodium peroxide		x	x	x	KVT/KVTW	25-100	PTFE	
			x	x	x	MTV	>100	SS2377	
K72	Sodium silicate	1	50	x	x	KVT/KVTW	25-100	PTFE	
K80	Nitric acid	2	100	x	x	KVT/KVTW	25-100	PTFE	Titanium
K81	Nitric acid, diluted	2	100	x	x	SKV	25-100	PTFE53	
			x	x	x	KVT/KVTW	25-100	PTFE	
K86	Sulfur dioxide	5	40	x	x	KVT/KVTW	25-100	PTFE	
			x	x	x	MTV	>100	SS2377	
K91	Sulphuric acid	5	50	x	x	KVT/KVTW	25-100	Contact Somas	
K96	Hydrogen peroxide	5	40	x	x	KVT/KVTW	25-100	Contact Somas	

**Group L**  
**Liqour** (page 1/4)

		Max P bar	Max t degr.C	M	O-O	C	Valve type	Dimensions DN	Seat Material	Remarks
<b>Liquor by-products Process: Sulphate</b>										
L01	White liquor	20	175	x	x	x	KVT/KVTW	25-100	PTFE PTFE53	Max 170 degr. C Max 200 degr. C
				x	x	x	MTV	>100	SS2377	
				x	x	x	SKV	25-100	PTFE53	Max 200 degr.C
L02	White liquor, weak	3	80	x	x	x	KVT/KVTW	25-100	PTFE	
				x	x	x	MTV	>100	SS2377	
L03	White liquor, oxidized	10	150	x	x	x	SKV	25-150	PTFE53	
				x	x	x	KVT/KVTW	25-150	PTFE	
				x	x	x	MTV	>150	SS2377	
L04	Polysulphide	3	102	x	x	x	SKV	25-150	PTFE53	
				x	x	x	KVT/KVTW	25-150	PTFE	
				x	x	x	MTV	>150	SS2377	
L06	Digester cooking liquor	20	175	x	x	x	SKV	25-400	Stellite	Check PN rating!
					x		KVT/KVTW	25-400	Stellite	Check PN rating!
L08	Black liquor, thin	5	175	x	x	x	KVT/KVTW	25-100	PTFE53	Max 170 degr. C
				x	x	x	MTV	>100	SS2377	
L10	Black liquor, waste	5	95	x	x	x	KVT/KVTW	25-100	PTFE53	
				x	x	x	MTV	>100	SS2377	
L12	Black liquor, mixed	5	90	x	x	x	KVT/KVTW	25-100	PTFE53	
				x	x	x	MTV	>100	SS2377	
L13	Black liquor, intermediate	5	110	x	x	x	KVT/KVTW	25-100	PTFE53	
				x	x	x	MTV	>100	SS2377	
L14	Black liquor, thick (Density max 1132 kg/m <sup>3</sup> )	7	110	x	x	x	SKV	25-400	PTFE53/Alt. Stellite	
					x		KVT/KVTW/ KVTF	25-400	PTFE53/Alt. Stellite	
L15	Black liquor, intermediate thick	2	112	x	x	x	SKV	25-400	PTFE53	
					x		KVT/KVTW/ KVTF	25-400	PTFE53	
L16	Green liquor, sulphate	5	102	x	x	x	SKV	25-400	Stellite	Scraper-locked.
					x		KVT/KVTW/ KVTF	25-400	Stellite	Scraper.
L17	Green liquor, sulphate weak	5	70	x	x	x	SKV	25-400	Stellite	Scraper-locked.
					x		KVT/KVTW/ KVTF	25-400	Stellite	Scraper.

**Group L**
**Liqour** (page 2/4)

	<b>Max P bar</b>	<b>Max t degr.C</b>	<b>M</b>	<b>O-O</b>	<b>C</b>	<b>Valve type</b>	<b>Dimensions DN</b>	<b>Seat Material</b>	<b>Remarks</b>
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**Process: Sulphate**

L20	Raw acid (Semi-acid)	7	60	x	x	SKV	25-400	Stellite	
				x	x	KVT/KVTW	25-400	Stellite	
L21	Cooking acid, ammonium	10	160	x	x	H3	10-100	PTFE	
				x	x	SKV	>100	PTFE53	
L22	Cooking acid, calcium	10	150	x	x	H3	10-100	PTFE	
				x	x	SKV	>100	PTFE53	
				x	x	KVT/KVTW	25-250	PTFE53	
L23	Cooking acid, magnesuim	10	150	x	x	H3	10-100	PTFE	
				x	x	SKV	>100	PTFE53	
L24	Cooking acid, sodium	10	150	x	x	KVT/KVTW	25-250	PTFE53	
				x	x	SKV	>100	PTFE53	
L25	Cooking acid, sodium bisulphide	10	150	x	x	H3	10-100	PTFE	
				x	x	SKV	>100	PTFE53	
L26	Cooking acid, magnesuim bisulphite	8,5	160	x	x	KVT/KVTW	25-250	PTFE53	
				x	x	SKV	>25	PTFE53	
				x	x	KVT/KVTW/>	25	PTFE53	
				x	x	KVTF			
L30	Red liquor/Waste liquor	5	130	x	x	H3	10-100	PTFE	
				x	x	SKV	>100	PTFE53	
L31	Weak liquor	3	80	x	x	KVT/KVTW	25-250	PTFE53	
				x	x	H3	10-100	PTFE	
				x	x	MTV	>100	SS2377	
L32	Mixed liquor	3	80	x	x	KVT/KVTW	25-250	PTFE53	
				x	x	H3	10-100	PTFE	
				x	x	MTV	>100	SS2377	
L34	Thick liquor, sulphate	5	90	x	x	KVT/KVTW	25-250	PTFE53	
				x	x	SKV	25-400	PTFE53	
				x	x	KVT/KVTW	25-250	PTFE53	

**Group L**
**Liqour** (page 3/4)

	<b>Max P bar</b>	<b>Max t degr.C</b>	<b>M</b>	<b>O-O</b>	<b>C</b>	<b>Valve type</b>	<b>Dimensions DN</b>	<b>Seat Material</b>	<b>Remarks</b>
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**Process: Sulphate**

L36	Thin liquor, magnefit	1	95	x	x	H3	10-100	PTFE	
				x	x	MTV	>100	SS2377	
				x	x	KVT/KVTW	25-250	PTFE53	
L37	Thick liquor, magnefit	5	125	x	x	SKV	25-400	Stellite	
				x	x	KVT/KVTW	25-250	Stellite	
L40	Green liquor, sulphite	5	100	x	x	SKV	25-400	Stellite	
				x	x	KVT/KVTW	25-250	Stellite	
L41	Green liquor, sulphite, weak	5	80	x	x	SKV	25-400	PTFE53	
				x	x	KVT/KVTW	25-250	PTFE53	

**Group L**
**Liqour (page 4/4)**

	<b>Max P bar</b>	<b>Max t degr.C</b>	<b>M</b>	<b>O-O</b>	<b>C</b>	<b>Valve type</b>	<b>Dimensions DN</b>	<b>Seat Material</b>	<b>Remarks</b>
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**Process: NSSC**

L50	Cooking liquor NSSC	17	80	x	x	SKV	25-400	PTFE53	
				x	x	KVT/KVTW	25-250	PTFE53	
L52	Red liquor/Waste liquor NSSC	10	100	x	x	SKV	25-100	PTFE53	
				x	x	MTV	>100	SS2377	
L54	Thick liquor, NSSC			x	x	SKV	25-400	PTFE53	
				x	x	KVT/KVTW	25-250	PTFE53	
L56	Green liquor, NSSC	3	102	x	x	SKV	25-400	Stellite	
				x	x	KVT/KVTW	25-250	Stellite	
L58	Green liquor, weak, NSSC		70	x	x	SKV	25-100	PTFE53	
				x	x	MTV	>100	SS2377	
L70	Soap	5	50	x	x	SKV	25-100	PTFE53	
				x	x	KVT/KVTW	25-100	PTFE	
				x	x	MTV	>100	SS2377	
L72	Splitting liquid	5	100	x	x	SKV	25-100	PTFE53	
				x	x	KVT/KVTW	25-100	PTFE	
				x	x	MTV	>100	SS2377	
L75	Tall oil	3	100	x	x	SKV	25-100	PTFE53	
				x	x	MTV	>100	SS2377	
L80	Raw terpentine	3	30	x	x	SKV	25-100	PTFE53	
				x	x	MTV	>100	SS2377	
L85	Terpentine	6	20	x	x	KVT/KVTW	25-250	PTFE	
				x	x	H3	10-100	PTFE	
						MTV	>100	SS2377	

<b>Group M</b>		<b>Max P</b>	<b>Max t</b>	<b>M</b>	<b>O-O</b>	<b>C</b>	<b>Valve type</b>	<b>Dimensions</b>	<b>Seat Material</b>	<b>Remarks</b>
<b>Sludge and pigments</b>		<b>bar</b>	<b>degr.C</b>					<b>DN</b>		
<b>Comments:</b> The fluids within this group are very abrasive and therefore subject to discussion with Somas, or Somas representative from case to case.										
For hand operated and on-off valves ball valves in ceramic can be a solution as well.										
M01	Kaolin powder			x	x		SKV	25-400	PTFE53	
M02	Kaolin slurry	6	50	x	x		SKV	25-400	Stellite	Stellited ball
				x	x	x	KVT/KVTW	25-250	Stellite	Stellited segment
M03	Chalk slurry			x	x		SKV	25-400	Stellite	Stellited ball
				x	x	x	KVT/KVTW	25-250	Stellite	Stellited segment
M05	Talc, slurry	5	7	x	x		SKV	25-400	Stellite	Stellited ball
				x	x	x	KVT/KVTW	25-250	Stellite	Stellited segment
M20	Magnesium, slurry	6	90	x	x		SKV	25-400	Stellite	Stellited ball
				x	x	x	KVT/KVTW	25-250	Stellite	Stellited segment
M25	Lime slurry		103	x	x		SKV	25-400	Stellite	Stellited ball
				x	x	x	KVT/KVTW	25-250	Stellite	Stellited segment
M30	Lime slurry before filter	10	100	x	x		SKV	25-400	Stellite	Stellited ball
				x	x	x	KVT/KVTW	25-250	Stellite	Stellited segment
M31	Lime slurry after filter	10	100	x	x		SKV	25-400	Stellite	Stellited ball
				x	x	x	KVT/KVTW	25-250	Stellite	Stellited segment
M40	Green liquor sludge before filter	3	108	x	x		SKV	25-400	Stellite	Stellited ball
				x	x	x	KVT/KVTW	25-250	Stellite	Stellited segment
M41	Green liquor sludge after filter	3	108	x	x		SKV	25-400	Stellite	Stellited ball
				x	x	x	KVT/KVTW	25-250	Stellite	Stellited segment
M45	Sludge, de-inking plant	10	50	x	x		SKV	25-400	PTFE53	
				x	x	x	KVT/KVTW	25-250	PTFE53	

<b>Group O Oil</b>		<b>Max P bar</b>	<b>Max t degr.C</b>	<b>M</b>	<b>O-O</b>	<b>C</b>	<b>Valve type</b>	<b>Dimensions DN</b>	<b>Seat Material</b>	<b>Remarks</b>
<b>Oil compounds, Lubricating oil, fossil fuels</b>										
051	Oil, WRD	3	25	x	x		SKV	25-100	PTFE53	
				x	x		MTV	>100	SS2377	
					x	x	KVT/KVTW	25-250	PTFE	
053	Oil, fuel 3	3	60	x	x		SKV	25-100	PTFE53	
				x	x		MTV	>100	SS2377	
					x	x	KVT/KVTW	25-250	PTFE	
055	Oil, fuel 4	3	80	x	x		SKV	25-100	PTFE53	
				x	x		MTV	>100	SS2377	
					x	x	KVT/KVTW	25-250	PTFE	
057	Oil, fuel 5	3	80	x	x		SKV	25-100	PTFE53	
				x	x		MTV	>100	SS2377	
					x	x	KVT/KVTW	25-250	PTFE	

**Group P**
**Pulp & fibre** (page 1/7)

		<b>Max P bar</b>	<b>Max t degr.C</b>	<b>M</b>	<b>O-O</b>	<b>C</b>	<b>Valve type</b>	<b>Dimensions DN</b>	<b>Seat Material</b>	<b>Remarks</b>
<b>Pulp and fibre suspensions</b>										
P02	Pulp, SPG, Stone ground wood unscreened	90		x	x		SKV	25-100	Stellite	
				x	x		MTV	>100	SS2377	Max consistency 4%
				x	x	x	KVT/KVTW/ KVTF	25-400	Stellite	
	D:o screened			x	x		SKV	25-100	PTFE53	
				x	x		MTV	>100	SS2377	Max consistency 4%
				x	x	x	KVT/KVTW/ KVTF	25-400	PTFE	
P03	Pulp, RPM, Refinner mechanical, unscreened	90		x	x		SKV	25-100	Stellite	
				x	x	x	MTV	>100	SS2377	Max consistency 4%
				x	x	x	KVT/KVTW/ KVTF	25-400	Stellite	
	D:o, screened			x	x		SKV	25-100	PTFE53	
				x	x		MTV	>100	S2377	Max consistency 4%
				x	x	x	KVT/KVTW/ KVTF	25-400	PTFE	
P04	Pulp, CPM, Chemical/ mechanical, unscreened	100		x	x		SKV	25-100	Stellite	
				x	x	x	MTV	>100	SS2377	Max consistency 4%
				x	x	x	KVT/KVTW/ KVTF	25-400	Stellite	
	D:o, screened			x	x		SKV	25-100	PTFE53	
				x	x		MTV	>100	SS2377	Max consistency 4%
				x	x	x	KVT/KVTW/ KVTF	25-400	PTFE	
P05	Pulp, TMP, Thermo- mechanical, unscreened	100		x	x		SKV	25-100	Stellite	
				x	x	x	MTV	>100	SS2377	Max consistency 4%
				x	x	x	KVT/KVTW/ KVTF	25-400	Stellite	
	D:o screened			x	x		SKV	25-100	PTFE53	
				x	x		MTV	>100	SS2377	Max consistency 4%
				x	x	x	KVT/KVTW/ KVTF	25-400	PTFE	

**Group P**
**Pulp & fibre** (page 2/7)

		<b>Max P bar</b>	<b>Max t degr.C</b>	<b>M</b>	<b>O-O</b>	<b>C</b>	<b>Valve type</b>	<b>Dimensions DN</b>	<b>Seat Material</b>	<b>Remarks</b>
<b>Pulp and fibre suspensions</b>										
P06	Pulp, CTMP, Chem/ thermomechanical, Unscreened	5	100	x	x		SKV	25-100	Stellite	
				x	x		MTV	>100	SS2377	Max consistency 4%
				x	x	x	KVT/KVTW/ KVTF	25-400	Stellite	
	D:o, screened			x	x		SKV	25-100	PTFE53	
				x	x		MTV	>100	SS2377	Max consistency 4%
				x	x	x	KVT/KVTW/ KVTF	25-400	PTFE	
P10	Pulp, secondary fibre, mixed, unscreened	6	100	x	x		SKV	25-100	Stellite	
				x	x		MTV	>100	SS2377	Max consistency 4%
				x	x	x	KVT/KVTW/ KVTF	25-400	Stellite	
	D:o, screened			x	x		SKV	25-100	PTFE53	
				x	x		MTV	>100	SS2377	Max consistency 4%
				x	x	x	KVT/KVTW/ KVTF	25-400	PTFE	
P15	Pulp, secondary fibre, mechanical, unscreened	6	100	x	x		SKV	25-100	Stellite	
				x	x	x	MTV	>100	SS2377	Max consistency 4%
				x	x	x	KVT/KVTW/ KVTF	25-400	Stellite	
	D:o, screened			x	x		SKV	25-100	PTFE53	
				x	x		MTV	>100	SS2377	Max consistency 4%
				x	x	x	KVT/KVTW/ KVTF	25-400	PTFE	
P20	Pulp, secondary fibre, unbleached, unscreened	6	70	x	x		SKV	25-100	Stellite	
				x	x	x	MTV	>100	SS2377	Max consistency 4%
				x	x	x	KVT/KVTW/ KVTF	25-400	Stellite	
	D:o, screened			x	x		SKV	25-100	PTFE53	
				x	x		MTV	>100	SS2377	Max consistency 4%
				x	x	x	KVT/KVTW/ KVTF	25-400	PTFE	

**Group P**
**Pulp & fibre** (page 3/7)

		<b>Max P bar</b>	<b>Max t degr.C</b>	<b>M</b>	<b>O-O</b>	<b>C</b>	<b>Valve type</b>	<b>Dimensions DN</b>	<b>Seat Material</b>	<b>Remarks</b>
<b>Pulp and fibre suspensions</b>										
P25	Pulp, secondary fibre bleached, unscreened	6	70	x	x		SKV	25-100	Stellite	
				x	x		MTV	>100	SS2377	Max consistency 4%
				x	x	x	KVT/KVTW/ KVTF	25-400	Stellite	
	D:o screened			x	x		SKV	25-100	PTFE53	
				x	x		MTV	>100	SS2377	Max consistency 4%
				x	x	x	KVT/KVTW/ KVTF	25-400	PTFE	
P26	Pulp, sulphate, unwashed, unscreened	6	90	x	x		SKV	25-100	Stellite	
				x	x		MTV	>100	SS2377	Max consistency 4%
				x	x	x	KVT/KVTW/ KVTF	25-400	Stellite	
	D:o, screened			x	x		SKV	25-100	PTFE53	
				x	x		MTV	>100	SS2377	Max consistency 4%
				x	x	x	KVT/KVTW/ KVTF	25-400	PTFE	
P27	Pulp, sulphite, unwashed unscreened	6	90	x	x		SKV	25-100	Stellite	
				x	x		MTV	>100	SS2377	Max consistency 4%
				x	x	x	KVT/KVTW/ KVTF	25-400	Stellite	
	D:o, screened			x	x		SKV	25-100	PTFE53	
				x	x		MTV	>100	SS2377	Max consistency 4%
				x	x	x	KVT/KVTW/ KVTF	25-400	PTFE	
P28	Pulp, NSSC, neutral sulphite, unwashed, unscreened	6		x	x		SKV	25-100	Stellite	
				x	x		MTV	>100	SS2377	Max consistency 4%
				x	x	x	KVT/KVTW/ KVTF	25-400	Stellite	
	D:o, screened			x	x		SKV	25-100	PTFE53	
				x	x		MTV	>100	SS2377	Max consistency 4%
				x	x	x	KVT/KVTW/ KVTF	25-400	PTFE	

**Group P**
**Pulp & fibre** (page 4/7)

		<b>Max P bar</b>	<b>Max t degr.C</b>	<b>M</b>	<b>O-O</b>	<b>C</b>	<b>Valve type</b>	<b>Dimensions DN</b>	<b>Seat Material</b>	<b>Remarks</b>
<b>Pulp and fibre suspensions</b>										
P29	Pulp. Magnesium sulphate, unscreened	6	90	x	x		SKV	25-100	Stellite	
				x	x		MTV	>100	SS2377	Max consistency 4%
				x	x	x	KVT/KVTW/ KVTF	25-400	Stellite	
	D:o, screened			x	x		SKV	25-100	PTFE53	
				x	x		MTV	>100	SS2377	Max consistency 4%
				x	x	x	KVT/KVTW/ KVTF	25-400	PTFE	
P30	Pulp, unbleached sulphate unscreened	6	80	x	x		SKV	25-100	Stellite	
				x	x		MTV	>100	SS2377	Max consistency 4%
				x	x	x	KVT/KVTW/ KVTF	25-400	Stellite	
	D:o, screened			x	x		SKV	25-100	PTFE53	
				x	x		MTV	>100	SS2377	Max consistency 4%
				x	x	x	KVT/KVTW/ KVTF	25-400	PTFE53	
P35	Pulp, unbleached sulphite,unscreened	6	70	x	x		SKV	25-100	Stellite	
				x	x		MTV	>100	SS2377	Max consistency 4%
				x	x	x	KVT/KVTW/ KVTF	25-400	Stellite	
	D:o, screened			x	x		SKV	25-100	PTFE53	
				x	x		MTV	>100	SS2377	Max consistency 4%
				x	x	x	KVT/KVTW/ KVTF	25-400	PTFE53	
P40	Pulp, NSSC, neutral sulphite, washed, unscreened	6	80	x	x		SKV	25-100	Stellite	
				x	x		MTV	>100	SS2377	Max consistency 4%
				x	x	x	KVT/KVTW/ KVTF	25-400	Stellite	
				x	x		SKV	25-100	PTFE53	
				x	x		MTV	>100	SS2377	Max consistency 4%
				x	x	x	KVT/KVTW/ KVTF	25-400	PTFE53	

**Group P**
**Pulp & fibre** (page 5/7)

		Max P bar	Max t degr.C	M	O-O	C	Valve type	Dimensions DN	Seat Material	Remarks
<b>Pulp and fibre suspensions</b>										
P53	Pulp, soda stage, mixer-tower-washer,	6	70	x	x		SKV	25-100	PTFE53	
				x	x		MTV	>100	SS2377	Max consistency 4%
				x	x	x	KVT/KVTW/ KVTF	25-400	PTFE	
P54	Pulp, hydrochlorite stage mixer-tower-washer	6	40	x	x		SKV	25-100	PTFE53	
				x	x		MTV	>100	SS2377	Max consistency 4%
				x	x	x	KVT/KVTW/ KVTF	25-400	PTFE	
P55	Pulp, chlorine dioxide stage, mixer-tower-washer	6	95	x	x	x	KVT/KVTW	25-100	PTFE	Hastelloy C, Titan
				x	x	x	MTV	>100	PTFE	Hastelloy C, Titan
P57	Pulp, oxygen stage	16	120	x	x		SKV	25-100	PTFE53	
				x	x		MTV	>100	SS2377	
				x	x	x	KVT/KVTW/ KVTF	25-400	PTFE	
P58	Pulp, peroxide stage	16	110	x	x		SKV	25-100	PTFE53	
				x	x		MTV	>100	SS2377	
				x	x	x	KVT/KVTW/ KVTF	25-400	PTFE	
P59	Pulp, hydrosulphite stage	6	70	x	x		SKV	25-100	PTFE53	
				x	x		MTV	>100	SS2377	
				x	x	x	KVT/KVTW/ KVTF	25-400	PTFE	

**Group P**
**Pulp & fibre** (page 6/7)

**Max P  
bar**
**Max t  
degr.C**
**M**
**O-O**
**C**
**Valve type**
**Dimensions  
DN**
**Seat  
Material**
**Remarks**
**Pulp and fibre suspensions**

P60	Pulp, ozone stage	10	50	x	x		SKV	25-100	PTFE53
				x	x		MTV	>100	SS2377
				x	x		KVT/KVTW/	25-400	PTFE
							KVTF		
P70	Pulp, bleached	6	50	x	x		SKV	25-100	PTFE53
				x	x		MTV	>100	SS2377
				x	x		KVT/KVTW/	25-400	PTFE
							KVTF		
P71	Pulp, bleached, broke	5	50	x	x		SKV	25-100	PTFE53
				x	x		MTV	>100	SS2377
				x	x		KVT/KVTW/	25-400	PTFE
							KVTF		
P80	Pulp, machine furnish unbleached	6	60	x	x		SKV	25-100	PTFE53
				x	x		MTV	>100	SS2377
				x	x		KVT/KVTW/	25-400	PTFE
							KVTF		
P85	Pulp, machine furnish bleached	6	60	x	x		SKV	25-100	PTFE53
				x	x		MTV	>100	SS2377
				x	x		KVT/KVTW/	25-400	PTFE
							KVTF		
P90	Pulp, broke, PM, unbleached	6	60	x	x		SKV	25-100	PTFE53
				x	x		MTV	>100	SS2377
				x	x		KVT/KVTW/	25-400	PTFE
							KVTF		

**Group P**
**Pulp & fibre** (page 7/7)

	<b>Max P bar</b>	<b>Max t degr.C</b>	<b>M</b>	<b>O-O</b>	<b>C</b>	<b>Valve type</b>	<b>Dimensions DN</b>	<b>Seat Material</b>	<b>Remarks</b>
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**Pulp and fibre suspensions**

P91	Pulp, broke, PM, bleached	6		x	x	SKV	25-100	PTFE53	
				x	x	MTV	>100	SS2377	
				x	x	KVT/KVTW/ KVTF	25-400	PTFE	
P92	Pulp broke coated	6	90	x	x	SKV	25-100	PTFE53	
				x	x	MTV	>100	SS2377	
				x	x	KVT/KVTW/ KVTF	25-400	PTFE	
P93	Pulp mixed broke	6		x	x	SKV	25-100	PTFE53	
				x	x	MTV	>100	SS2377	
				x	x	KVT/KVTW/ KVTF	25-400	PTFE	
P98	Pulp unbleached dried and dissolved	6	90	x	x	SKV	25-100	PTFE53	
				x	x	MTV	>100	SS2377	
				x	x	KVT/KVTW/ KVTF	25-400	PTFE	
P99	Pulp bleached dried and dissolved	6	90	x	x	SKV	25-100	PTFE53	
				x	x	MTV	>100	SS2377	
				x	x	KVT/KVTW/ KVTF	25-400	PTFE	

<b>Group S</b>		<b>Max P bar</b>	<b>Max t degr.C</b>	<b>M</b>	<b>O-O</b>	<b>C</b>	<b>Valve type</b>	<b>Dimensions DN</b>	<b>Seat Material</b>	<b>Remarks</b>
S01	Steam live	5	200	x	x		SKV	25-100	PTFE53	
				x	x		MTV	>100	SS2377	HC-shaft
					x	x	KVT/KVTW	25-250	PTFE53	>180 degr. C = Stellite seat
S02	Steam live 0,5-1,3 Mpa	13	250	x	x		SKV	25-100	Stellite	
				x	x		MTV	>100	SS2377	HC-Shaft
S03	Steam live, >1,3 Mpa	60	500				KVX/KVXW	25-250	Stellite	
S10	Steam flash	3	130	x	x					
				x	x		SKV	25-100	PTFE53	
					x	x	MTV	>100	SS2377	HC-shaft
						x	KVT/KVTW	25-250	PTFE53	
S15	Steam, flash, acidic	4	140	x	x		SKV	25-100	PTFE53	
				x	x		MTV	>100	SS2377	HC-shaft
					x	x	KVT/KVTW	25-250	PTFE53	
S20	Steam, flash, alkaline	4	140	x	x		SKV	25-100	PTFE53	
				x	x		MTV	>100	SS2377	HC-shaft
					x	x	KVT/KVTW	25-250	PTFE53	
S35	Steam TMP	5	150	x	x		SKV	25-100	PTFE53	
				x	x		MTV	>100	SS2377	
					x	x	KVT/KVTW	25-250	PTFE53	
										Use use gate and globe valves!

<b>Group V Vapour</b>		<b>Max P bar</b>	<b>Max t degr.C</b>	<b>M</b>	<b>O-O</b>	<b>C</b>	<b>Valve type</b>	<b>Dimensions DN</b>	<b>Seat Material</b>	<b>Remarks</b>
V01	Evacuation, digester sulphate	3	190	x	x	x	SKV KVT/KVTW/ KVTF	25-400 25-400	PTFE53 PTFE53	
V05	Evacuation, digester sulphite		160	x	x	x	SKV KVT/KVTW/ KVTF	25-400 25-400	PTFE53 PTFE53	
V06	Evacuation, digester NSSC			x	x	x	SKV KVT/KVTW/ KVTF	25-400 25-400	PTFE53 PTFE53	

**Group W**  
**Water** (page 1/3)

	Max P bar	Max t degr.C	M	O-O	C	Valve type	Dimensions DN	Seat Material	Remarks
W02 Water, raw	6	25	x	x		H3	10-100	PTFE	
			x	x	x	MTV	>100	SS2377	
			x	x	x	KVT/KVTW	25-100	PTFE	
W03 Water, mechanically treated	6	25	x	x		H3	10-100	PTFE	
			x	x		MTV	>100	SS2377	
			x	x	x	KVT/KVTW	25-100	PTFE	
W04 Water, chemically/ mechanically treated	6	25	x	x		H3	10-100	PTFE	
			x	x		MTV	>100	SS2377	
			x	x	x	KVT/KVTW	25-100	PTFE	
W05 Water, chemically/ mechanically treated $\leq 50^{\circ}\text{C}$	6	50	x	x		H3	10-100	PTFE	
			x	x		MTV	>100	SS2377	
			x	x	x	KVT/KVTW	25-100	PTFE	
W06 Water, chemically/ mechanically treated $50 \leq 85^{\circ}\text{C}$	6	85	x	x		H3	10-100	PTFE	
			x	x		MTV	>100	SS2377	
			x	x	x	KVT/KVTW	25-100	PTFE	
W07 Water, chemically/ mechanically treated $>85^{\circ}\text{C}$	6	100	x	x		H3	10-100	PTFE	
			x	x		MTV	>100	SS2377	
			x	x	x	KVT/KVTW	25-100	PTFE	
W10 Water, potable	6	25	x	x		H3	10-100	PTFE	
			x	x		MTV	>100	SS2377	
			x	x	x	KVT/KVTW	25-100	PTFE	

**Group W**
**Water** (page 2/3)

	<b>Max P bar</b>	<b>Max t degr.C</b>	<b>M</b>	<b>O-O</b>	<b>C</b>	<b>Valve type</b>	<b>Dimensions DN</b>	<b>Seat Material</b>	<b>Remarks</b>
W20 Water, sealing, low pressure	10	25	x	x		H3	10-100	PTFE	
				x	x	KVT/KVTW	25-100	PTFE	
W21 Water, sealing, high pressure	20	25	x	x		H3	10-100	PTFE	
				x	x	KVT/KVTW	25-100	PTFE	
W22 Water, flushing	6	25	x	x		H3	10-100	PTFE	
			x	x		MTV	>100	SS2377	
				x	x	KVT/KVTW	25-100	PTFE	
W23 Water, hydrant	16	25	x	x		H3	10-100	PTFE	
			x	x		MTV	>100	SS2377	
				x	x	KVT/KVTW	25-100	PTFE	
W24 Water, cooling	6	25	x	x		H3	10-100	PTFE	
			x	x		MTV	>100	SS2377	
				x	x	KVT/KVTW	25-100	PTFE	
W25 Water mixed with glycol for cooling	6	25	x	x		H3	10-100	PTFE	
			x	x		MTV	>100	SS2377	
				x	x	KVT/KVTW	25-100	PTFE	
W27 Water for cooling with some salt	6	25	x	x		H3	10-100	PTFE	
			x	x		MTV	>100	SS2377	
				x	x	KVT/KVTW	25-100	PTFE	
W30 Water, warm, < 50 degr. C	6	50	x	x		H3	10-100	PTFE	
			x	x		MTV	>100	SS2377	
				x	x	KVT/KVTW	25-100	PTFE	
W34 Water warm >50≤85degr.C	6	85	x	x		H3	10-100	PTFE	
			x	x		MTV	>100	SS2377	
				x	x	KVT/KVTW	25-100	PTFE	

**Group W**
**Water** (page 3/3)

	Max P bar	Max t degr.C	M	O-O	C	Valve type	Dimensions DN	Seat Material	Remarks
W35 Water, hot. >50 degr.C	6	100	x	x		H3	10-100	PTFE	
			x	x		MTV	>100	SS2377	
			x	x	x	KVT/KVTW	25-100	PTFE	
W37 Water warm circulation	6	90	x	x		H3	10-100	PTFE	
			x	x		MTV	>100	SS2377	
			x	x	x	KVT/KVTW	25-100	PTFE	
W38 Water mixed with glycol	6	90	x	x		H3	10-100	PTFE	
			x	x		MTV	>100	SS2377	
			x	x	x	KVT/KVTW	25-100	PTFE	
W39 Water refrigerating	6	25	x	x		H3	10-100	PTFE	
			x	x		MTV	>100	SS2377	
			x	x	x	KVT/KVTW	25-100	PTFE	
W47 Feedwater pre-heated	10	90	x	x		H3	10-100	PTFE	
			x	x		MTV	>100	SS2377	
			x	x	x	KVT/KVTW	25-100	PTFE	
W55 Water total desalinated	6	25	x	x		H3	10-100	PTFE	
			x	x		MTV	>100	SS2377	
			x	x	x	KVT/KVTW	25-100	PTFE	
W60 Water softening	6	25	x	x		H3	10-100	PTFE	
			x	x		MTV	>100	SS2377	
			x	x	x	KVT/KVTW	25-100	PTFE	