Diaphragm metering pump
EcoPro / EcoEvo / EcoAdd



Table of contents

7 Accessories 32
7.1 General accessories 32
7.2 Accessories 5 l/h and 11 l/h 34
7.2.1 Connection material 34
7.2.2 Suction lances 35
7.2.3 Suction lance adaptors 38
7.2.4 Bottom admission valve 41
7.2.5 Degas valve 42
7.2.6 Multifunction valve 43
7.2.7 Metering valve 44
7.2.8 Suction and pressure lines 47
7.3 Accessories 30 l/h and 50 l/h 48
7.3.1 Connection material 48

7.3.2 Suction lances 49
7.3.3 Suction lance adaptors 51
7.3.4 Bottom admission valve 53
7.3.5 Multifunction valve 54
7.3.6 Metering valve 55
7.3.7 Suction and pressure lines 57
7.4 Accessories 120 l/h 58
7.4.1 Connection material 58
7.4.2 Suction lances 59
7.4.3 Bottom admission valve 61
7.4.4 Metering valves 62
7.4.5 Suction and pressure lines 64

7 Accessories

7.1 General accessories

	Article	Article no.
	**Bluetooth board** for upgrading EcoAdd pumps for data exchange via Bluetooth	252080
	**Adapter cable** for connecting existing EMP pump connections, when replacing EMP pumps with Eco pumps.	
	Adapter cable, control input, EMP – EcoAdd	252082
	Adapter cable, output, EMP – EcoAdd	252083

	Article	Article no.
	**Oval gear meter** for volumetric measurement of the rate of flow **Ordering data are to be found in chapter „Measuring and Controlling, Oval Gear Meter“**	
	**Contact Water Meter** For volume-proportional applications, we recommend the use of contact water meters from our product range. **Ordering data are to be found in chapter „Measuring and Controlling, Contact Water Meter”**	
	**Signal horn with integrated red flashlight** 230 V / 50 Hz / IP 33 RO	418271053

7.2 Accessories 5 l/h and 11 l/h

7.2.1 Connection material



Article	Article no.
Connection set for PE/PTFE hose 4/6 mm (only for 5 l/h)	
Connection set Di4/Da6-G3/8-PP-GY	252102
Connection set Di4/Da6-G3/8-PVDF-NA	252101
Connection set for PE/PTFE hose 5/8 mm	
Connection set Di5/Da8-G3/8-PP-GY	252104
Connection set Di5/Da8-G3/8-PVDF-NA	252103
Connection set for PE/PTFE hose 6/8 mm	
Connection set Di6/Da8-G3/8-PP-GY	252106
Connection set Di6/Da8-G3/8-PVDF-NA	252105
Connection set for PE/PTFE hose 1/4“ / 3/8“	
Screw-on connection PP, G3/8“$_i$ – DN 1/4“ / 3/8“	415102350
Screw-on connection PVDF, G3/8“$_i$ – DN 1/4“ / 3/8“	415102304
Connection set for PE/PTFE hose 6/10 mm	
Screw-on connection PVDF, G3/8“$_i$ - 6/10 mm	415102352
Connection set for PVC hose 6/12 mm	
Connection set Di6/Da12-G3/8-PP-GY	252108
Connection set Di6/Da12-G3/8-PVDF-NA	252107
Connection set for PE/PTFE hose 4/6 and 6/8 mm and PVC hose 6/12 mm	
Connection set Di/Da 4/6-6/8-6/12-G3/8-PP-GY	252137
Connection set Di/Da 4/6-6/8-6/12-G3/8-PV-NA	252138

7.2.2 Suction lances

Ecolab suction lances include a protective function as well as a monitoring function. A sieve protects the metering pump from coarse particles, and a ball check valve prevents the suction line from running empty. At the same time, level messages for the states "pre-warning" and "empty" are provided via two float switches.

Note:

All components with moving parts are subject to wear, including suction lances.

We therefore recommend inspecting the suction lances for leaks and proper functioning at all service appointments and replacing them if necessary.



Article **Article no.**

Suction lances D16 with reserve and empty signal report

incl. ball non-return valve, suction strainer, potential-free contacts for level pre-warning and empty signal (when dropping below the level = contact interrupted).

Tube diameter:	16 mm
Material:	see suction lance code
Connection cable:	3-pin plug incl. 5 m cable
Turn-on voltage:	max. 48 V AC/DC
Switching current:	0.5 A
Rupturing capacity:	8 W / 8 VA

A-SGL-VVF0C-G3/8-06-2SS-0540-99-99-p	10240524
A-SGL-VVF0C-G3/8-06-2SS-0750-99-99-p	10240525
A-SGL-VVF0C-G3/8-06-2SS-1125-99-99-p	10240526

Suction lance code, see next page!

Note:

Hose connection set has to be ordered separately,
see **7.2.1 Connection material**.

Article	Article no.



Suction lances D32 with reserve and empty signal report

incl. of ball non-return valve, suction strainer and potential-free contacts for level pre-warning and empty signal (when dropping below the level = contact interrupted).

Tube diameter:	32 mm
Material:	see suction lance code
Connection cable:	3-pin plug incl. 5 m cable
Turn-on voltage:	max. 50 V AC/DC
Switching current:	0.5 A
Rupturing capacity:	10 W / 10 VA

A-SGL-VDFEC-G5/8-10-2SS-0475-99-99-p	10240410
A-SGL-VDFEC-G5/8-10-2SS-0725-99-99-p	10240411
A-SGL-VDFEC-G5/8-10-2SS-1125-99-99-p	10240412
A-SGL-VDFEC-G5/8-10-2SS-1300-99-99-p	10240413

Suction lance code, see next page!

Note:

Hose connection set has to be ordered separately,
see **7.3.1 Connection material**.



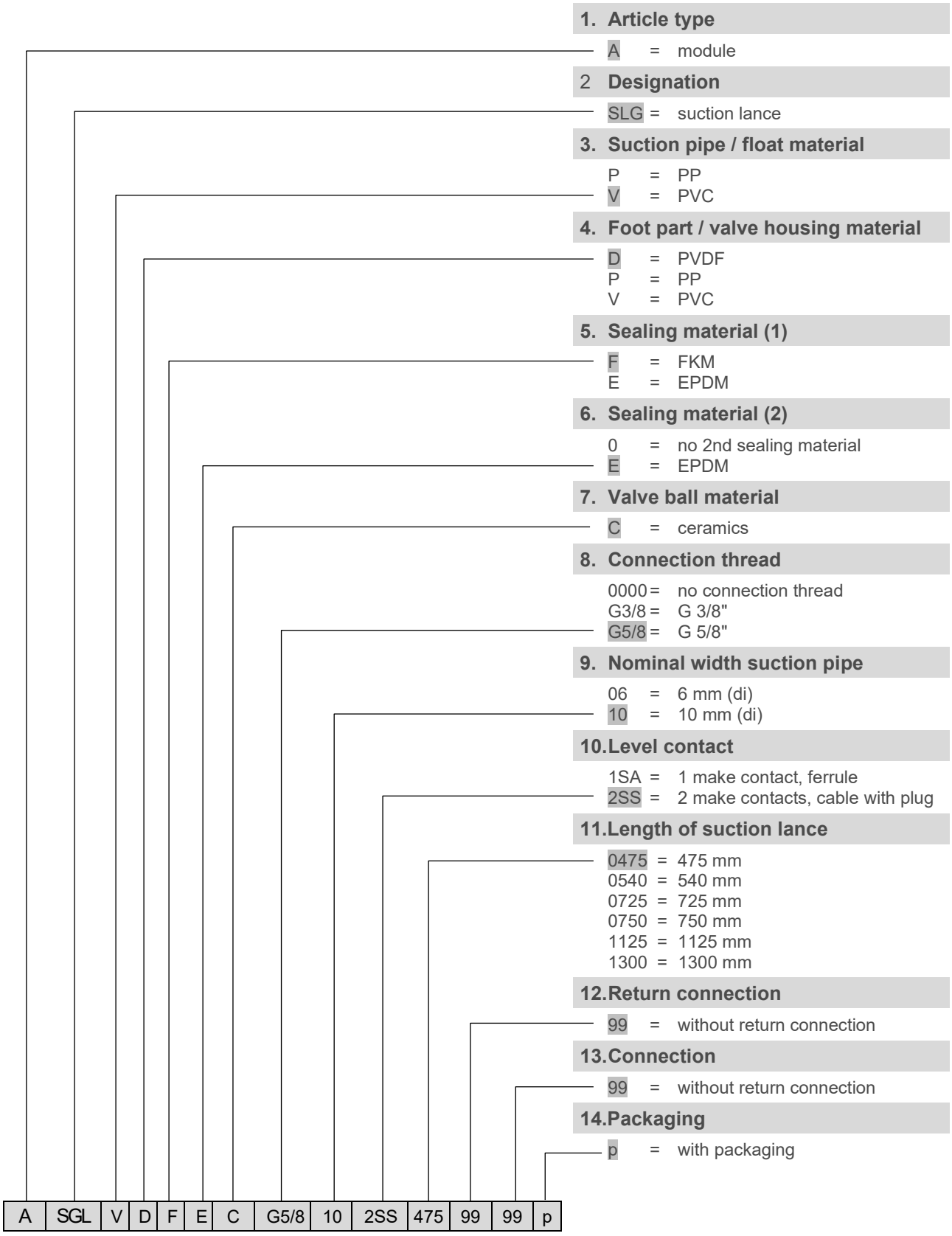
Protection tube for suction lances, D32 286191

PVDF, 32.5/40 (ID/AD)

for prevention of mechanical damage of the suction valve and the float respectively
suitable for all suction lances Ø 32 mm

incl. fastening screw

Suction lance code



7.2.3 Suction lance adaptors

	Article	Article no.
	**Adaptor – screw cap** for suction lance Ø 16 mm Thread pitch: 5 mm Threaded int. diameter: 50 mm Threaded ext. diameter: 55 mm Hole diameter: 25 mm can be screwed on: canister 10 l and 20 l	38619003
	as 38619003 but with Threaded int. diameter: 56 mm Threaded ext. diameter: 61 mm can be screwed on: canister 30 l **or** container 60 – 200 l	38619004
	as 38619004 but **with return hole**	247627
	**Adaptor – insert cap** for suction lance Ø 32 mm PVC soft to attach on: canister 10 l and 20 l	286198
	**Adaptor – insert cap** for suction lance Ø 32 mm PVC – hard / Viton B appropriate for **degassing products** Return connection: 4/6, 6/8 or 6/12 mm (int.Ø /ext.Ø) Vent connection: 6/12 mm (int.Ø / ext.Ø) to attach on: canister 30 l **or** container 60 – 200 l	288534
	**Adaptor – screw joint** for suction lance Ø 32 mm PVC hard Thread pitch: 5 mm Threaded int. diameter: 56 mm Threaded ext. diameter: 61 mm can be screwed on: canister 30 l **or** container 60 – 200 l	286197

	Article	Article no.
	**Adaptor – screw joint** for suction lance Ø 32 mm PVC – hard / Viton B / silicone appropriate for **degassing products** Return connection: 4/6, 6/8 or 6/12 mm (int.Ø /ext.Ø) Vent connection: 6/12 mm (int.Ø /ext.Ø) Thread pitch: 5 mm Threaded int. diameter: 63 mm Threaded ext. diameter: 69 mm for barrel with internal thread (L–ring plus barrel 220 l)	288535
	**Adapter screw connection** for suction lance Ø 32 mm PVC – hard / Viton B / Silicon suitable for degassing products Return connection: 4/6, 6/8 or 6/12 mm (int./ext.Ø) Vent connection: 6/12 mm (int./ext.Ø) Thread pitch: 2.31 mm Threaded int. diameter: 56.66 mm Threaded ext. diameter: 59.61 mm for container screw cap with 2“ internal thread	288570
	**Adapter** 2“ internal thread for adapter screw connection **288570** Tri-Sure external thread for container screw cap	419800026
	**Suction lance adapter, rigid PVC/Viton B** for canister or barrel	288549
	**Suction lance adapter, rigid PVC/Viton B** for barrels (l-ring plus – barrel 220)	288547
	**Suction lance adapter, rigid PVC/Viton B** for container (ECOBULK-container with skid pallet) for screw in in screw cap with 2” Tri-Sure-Stuffing	288548

	Article	Article no.
	**Terminal box for connection cable of the suction pipe** for connection cable with round plug incl. cable union PG 7 (max. 2 x 1 m²)	288419

7.2.4 Bottom admission valve

Bottom suction valves protect against dirt and coarse particles by means of a suction strainer. The integrated ball check valve prevents the suction line from running empty.

Note:

All components with moving parts are subject to wear, including bottom suction valves.

We therefore recommend inspecting the bottom suction valves for leaks and proper functioning at all service appointments and replacing them if necessary.



Article	Article no.
BSV VC PP FP KE 000 G 3/8 - 22	243125
BSV VC PP FP KE 000 G 3/8 - 23	243126
BSV VC PP EP KE 000 G 3/8 - 22	243127
BSV VC PP EP KE 000 G 3/8 - 23	243128
BSV VC PV FP KE 000 G 3/8 - 22	243129
BSV VC PV FP KE 000 G 3/8 - 23	243130
BSV VC PV EP KE 000 G 3/8 - 22	243131
BSV VC PV EP KE 000 G 3/8 - 23	243132

Article code

1. Valve designation
BSV = bottom admission valve

2. Housing material
VC = PVC

3. Connection material
PV = PVDF
PP = PP

4. Sealing material
FP = Viton B
EP = EPDM

5. Valve ball material
KE = ceramics

6. Valve spring pressure
000 = without spring

7. Thread connecting side
G 3/8

8. Connection
22 = set for hose 4/6
23 = set for hose 6/8

BSV	VC	PV	FP	KE	000	G3/8	22

7.2.5 Degas valve

The Degas valve is used for automatic venting of the pump head in applications with highly outgassing dosing media. The valve can be mounted directly on the pump head, the electrical connection is made at the control terminal block of the pump. The required settings can be conveniently made in the pump menu.



Article	Article no.
Degas valve	
with Degas control cable (0.5 m) and plug	
A-DGV-DFC100-G3/8-G3/8 -02-99-24	10240163

Note:

Hose connection set has to be ordered separately, see **7.2.1 Connection material.**

Article code

1. Article type
A = module

2. Designation
DGV = Degas valve

3. Valve material
D = PVDF

4. Seal material
F = FPM

5. Valve ball material
C = ceramics

6. Pressure range
100 = 10 bar

7. Connection thread – input
G3/8 = G3/8“$_i$

8. Connection thread – output
G3/8 = G3/8“$_a$

9. Hose connection – bypass
02 = 4/6 mm (ID/OD)

10. Hose connection – output
99 = without connection material

11. Power supply
24 = 24 V DC

A	DGV	D	F	C	100	G3/8	G3/8	02	99	24

7.2.6 Multifunction valve

Multi-function valves are safety components and are used to protect the piping system and the metering pump against impermissible high pressures. They also increase the metering accuracy of the system and enable reliable start-up and maintenance of the system.
A multi-function valve combines the following functions: **Overflow**, **pressure maintenance**, **venting** and **draining**.

Note:

All components with moveable parts are subject to wear, including multi-function valves.

We therefore recommend inspecting the multi-function valves for leaks and proper functioning at all service appointments and replacing them if necessary.



Article	Article no.
MFV PP FP 100 G 3/8 – G 5/8 – 21	249247
MFV PP EP 100 G 3/8 – G 5/8 – 21	249267
MFV PV FP 100 G 3/8 – G 5/8 – 21	249241
MFV PV EP 100 G 3/8 – G 5/8 – 21	249261

Article code

1. Valve designation
MFV = multifunction valve

2. Housing material
PV = PVDF
PP = PP

3. Sealing material
FP = Viton B
EP = EPDM

4. Pressure range overflow function
050 = 1 - 5 bar
100 = 5 - 10 bar

5. Thread inlet side
G 3/8

6. Thread connecting side
G 5/8

7. Connection
21 = set for hose 4/6, 6/8, 6/12

MFV	PV	FP	050	G3/8	G5/8	21

7.2.7 Metering valve

Ecolab metering valves are designed as spring-loaded ball valves or as hose valves (bicycle valve principle). They prevent the dosing line from running empty and thus increase the metering accuracy of the system.

Note:
All components with moveable parts are subject to wear, including metering valves.
We therefore recommend inspecting the metering valves for leaks and proper functioning at all service appointments and replacing them if necessary.



Article	Article no.
Metering valves with ball valve	
DVP PPFC-H03-G1/4-G3/8-045-S00	252150
DVP PPEC-H03-G1/4-G3/8-045-S00	252151
DVP DDFC-H03-G1/4-G3/8-045-S00	252153
DVP DDEC-H03-G1/4-G3/8-045-S00	252154
DVP PPFC-H03-G1/2-G3/8-045-S00	252155
DVP PPEC-H03-G1/2-G3/8-045-S00	252156
DVP DDFC-H03-G1/2-G3/8-045-S00	252157
DVP DDEC-H03-G1/2-G3/8-045-S00	252158



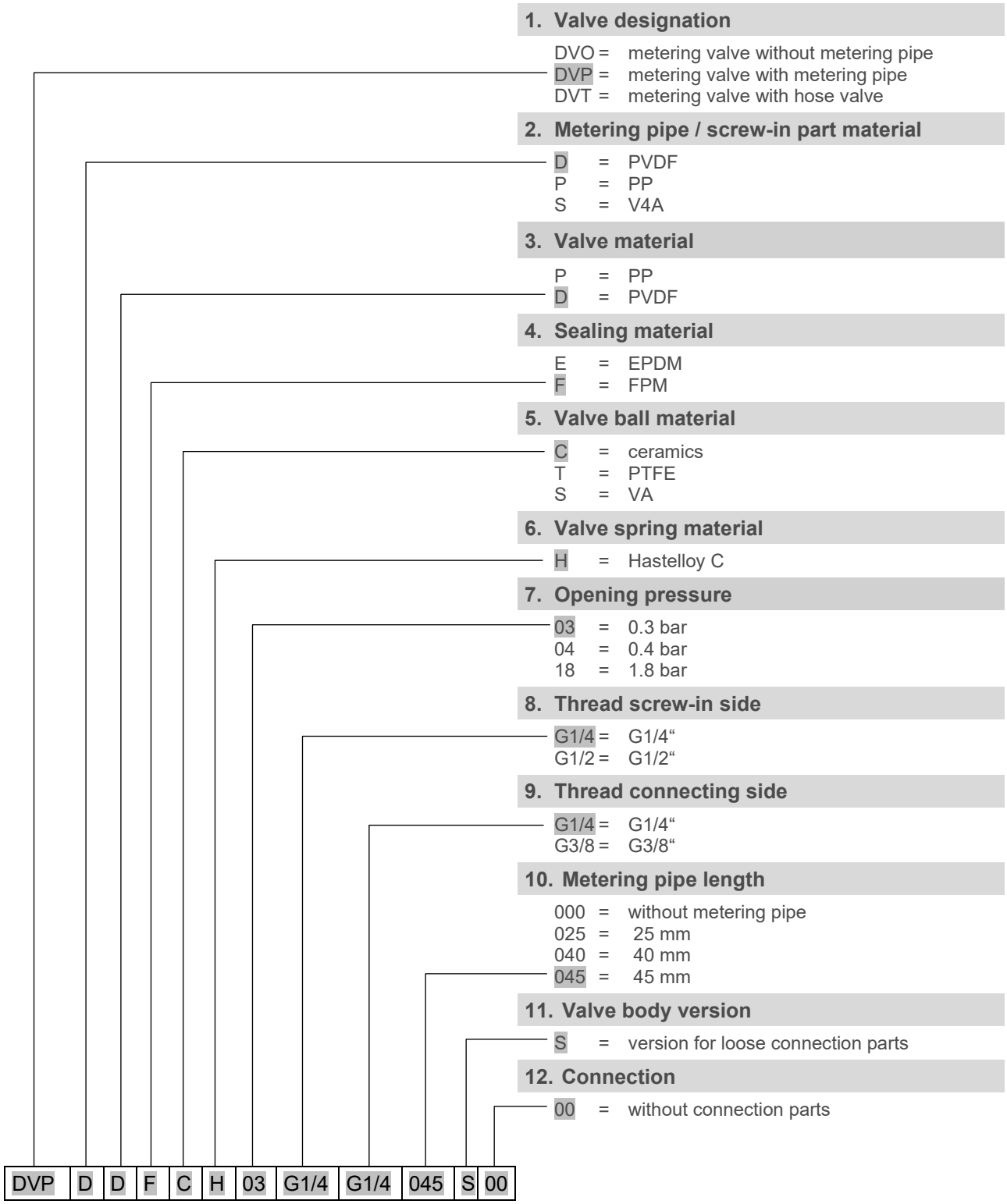
Metering valves with hose valve (for chloric products)	
DVT PPFC-H18-G1/4-G3/8-025-S00	252159
DVT PPEC-H18-G1/4-G3/8-025-S00	252160
DVT DDFC-H18-G1/4-G3/8-025-S00	252161
DVT DDEC-H18-G1/4-G3/8-025-S00	252162
DVT PPFC-H18-G1/2-G3/8-040-S00	252163
DVT PPEC-H18-G1/2-G3/8-040-S00	252164
DVT DDFC-H18-G1/2-G3/8-040-S00	252165
DVT DDEC-H18-G1/2-G3/8-040-S00	252166

Note:
Hose connection set has to be ordered separately,
see **7.2.1 Connection material**.



Article	Article no.
Hot-water metering area	
consisting of:	
Metering valve with metering pipe	
DVP SDFS-H04-G1/2-G1/4-041-G41	240153
and	
Cooling stretch	248411
stainless steel spiral-pipe da 8 mm	
with adapter and connection material for hose 4/6, 6/8 and 6/12 mm (ID/AD)	
Temperature resistance: **max. 130 °C**	

Metering valve code



7.2.8 Suction and pressure lines

	Article		Article no.
	Suction and pressure lines		
	available by the metre (int.Ø / ext.Ø)	max. operating pressure [bar] at 20 °C	
	PVC-fabric 6/12 mm	16	417400123
	PE hose 4/6 mm	12	417400301
	PE hose 5/8 mm	13	417400300
	PE hose 6/8 mm	8	417400310
	PE hose 6/10 mm	15	417400302
	PTFE hose 4/6 mm	12	417400215
	PTFE hose 5/8 mm	14	417400213
	PTFE hose 6/8 mm	9	417400224
	PTFE hose 6/10 mm	15	417400216

Note:

<u>PVC hoses</u>
PVC hoses only have a limited service life!
Especially when metering alkaline media or under heavy mechanical load, the service life can drop to less than 6 months.

<u>Other hose materials</u>
The service life of other hose materials is also limited!
Depending on the metering medium and the mechanical load, the service life can vary greatly.

We therefore recommend checking the dosing hoses at all service appointments and replacing them if necessary.

7.3 Accessories 30 l/h and 50 l/h

7.3.1 Connection material



Article	Article no.
Connection set for PE/PTFE hose 6/10 mm	
Screw-on connection PVDF, G5/8“$_i$ - 6/10 mm	415102353
Connection set for PVC hose 6/12 and 10/16 mm	
Connection set Di/Da 6/12-10/16-G5/8-PP-GY	249237
Connection set Di/Da 6/12-10/16-G5/8-PV-NA	249216
Connection set for PE/PTFE hose 9/12 mm	
Connection set Di9/Da12-G5/8-PP-GY	252116
Connection set Di9/Da12-G5/8-PVDF-NA	252115
Connecting parts for pipe connection DN8/d12	
Union nut PVDF G5/8“	34500134
Insertion part (welded sleeve) PVDF DN8/d12 - 5/8“	34900196
Insertion part (adhesive sleeve) PVC DN8/d12 - 5/8“	415100269
Connecting parts for transition to standard thread	
Screw-on connection PP G5/8"$_i$ – ½“$_a$ NPT	34900273
Screw-on connection PVDF G5/8"$_i$ – ½“$_a$ NPT	34900274

7.3.2 Suction lances

Ecolab suction lances include a protective function as well as a monitoring function. A sieve protects the metering pump from coarse particles, and a ball check valve prevents the suction line from running empty. At the same time, level messages for the states "pre-warning" and "empty" are provided via two float switches.

Note:

All components with moving parts are subject to wear, including suction lances.

We therefore recommend inspecting the suction lances for leaks and proper functioning at all service appointments and replacing them if necessary.



Article	Article no.
Suction lances D32 with reserve and empty signal report incl. of ball non-return valve, suction strainer and potential-free contacts for level pre-warning and empty signal (when dropping below the level = contact interrupted). Tube diameter: 32 mm Material: see suction lance code Connection cable: 3-pin plug incl. 5 m cable Turn-on voltage: max. 50 V AC/DC Switching current: 0.5 A Rupturing capacity: 10 W / 10 VA	
A-SGL-VDFEC-G5/8-10-2SS-0475-99-99-p	10240410
A-SGL-VDFEC-G5/8-10-2SS-0725-99-99-p	10240411
A-SGL-VDFEC-G5/8-10-2SS-1125-99-99-p	10240412
A-SGL-VDFEC-G5/8-10-2SS-1300-99-99-p	10240413

Suction lance code, see next page!

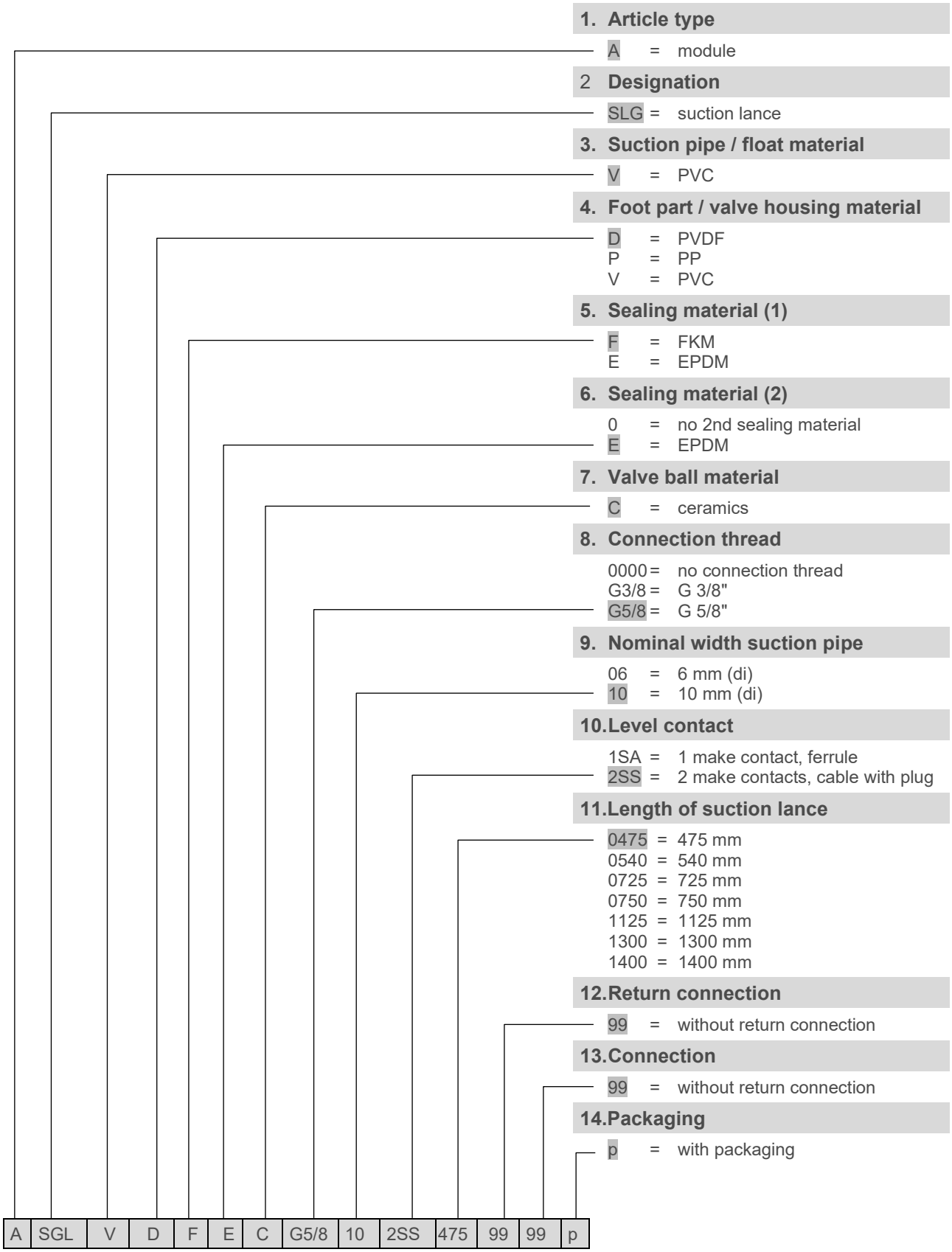
Note:

Hose connection set has to be ordered separately,
see **7.3.1 Connection material**.

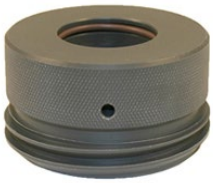


Protection tube for suction lances, D32 PVDF, 32.5/40 (ID/AD) for prevention of mechanical damage of the suction valve and the float respectively suitable for all suction lances Ø 32 mm incl. fastening screw	286191

Suction lance code



7.3.3 Suction lance adaptors

	Article	Article no.
	**Adaptor – insert cap** for suction lance Ø 32 mm PVC soft to attach on: canister 10 l and 20 l	286198
	**Adaptor – screw joint** for suction lance Ø 32 mm PVC hard Thread pitch: 5 mm Threaded int. diameter: 56 mm Threaded ext. diameter: 61 mm can be screwed on: canister 30 l **or** container 60 – 200 l	286197
	**Suction lance adaptor, D 32, rigid PVC/Viton B** for canister or barrel	288549
	**Suction lance adaptor, D 32, rigid PVC/Viton** B for barrels (I-ring plus – barrel 220)	288547
	**Suction lance adaptor, rigid PVC/Viton** B for container (ECOBULK-container with skid pallet) for screw in in screw cap with 2” Tri-Sure-Stuffing	288548

	Article	Article no.
	**Adaptor – insert cap** for suction lance Ø 32 mm PVC – hard / Viton B appropriate for **degassing products** Return connection: 4/6, 6/8 or 6/12 mm (int.Ø /ext.Ø) Vent connection: 6/12 mm (int.Ø /ext.Ø) to attach on: canister 30 l **or** container 60 – 200 l	288534
	**Adaptor – screw joint** for suction lance Ø 32 mm PVC – hard / Viton B / silicone appropriate for **degassing products** Return connection: 4/6, 6/8 or 6/12 mm (int.Ø /ext.Ø) Vent connection: 6/12 mm (int.Ø /ext.Ø) Thread pitch: 5 mm Threaded int. diameter: 63 mm Threaded ext. diameter: 69 mm for barrel with internal thread (L–ring plus barrel 220 l)	288535
	**Terminal box for connection cable of the suction pipe** for connection cable with round plug incl. cable union PG 7 (max. 2 x 1 m²)	288419

7.3.4 Bottom admission valve

Bottom suction valves protect against dirt and coarse particles by means of a suction strainer. The integrated ball check valve prevents the suction line from running empty.

Note:

All components with moving parts are subject to wear, including bottom suction valves.

We therefore recommend inspecting the bottom suction valves for leaks and proper functioning at all service appointments and replacing them if necessary.



Article	Article no.
BSV PV PV FP KE 000 G 5/8 – 99	249018
BSV PV PV EP KE 000 G 5/8 – 99	249024

Note:
Hose connection set has to be ordered separately,
see **7.3.1 Connection material**.

Article code

1. Valve designation
BSV = bottom admission valve

2. Housing material
PV = PVDF

3. Valve body material
PV = PVDF

4. Sealing material
FP = Viton B
EP = EPDM

5. Valve ball material
KE = ceramics

6. Valve spring pressure
000 = without spring

7. Thread connecting side
G 5/8

8. Connection
99 = without connection material

BSV	PV	PV	FP	KE	000	G5/8	99

7.3.5 Multifunction valve

Multi-function valves are safety components and are used to protect the piping system and the metering pump against impermissible high pressures. They also increase the metering accuracy of the system and enable reliable start-up and maintenance of the system.
A multi-function valve combines the following functions: **Overflow**, **pressure maintenance**, **venting** and **draining**.

Note:

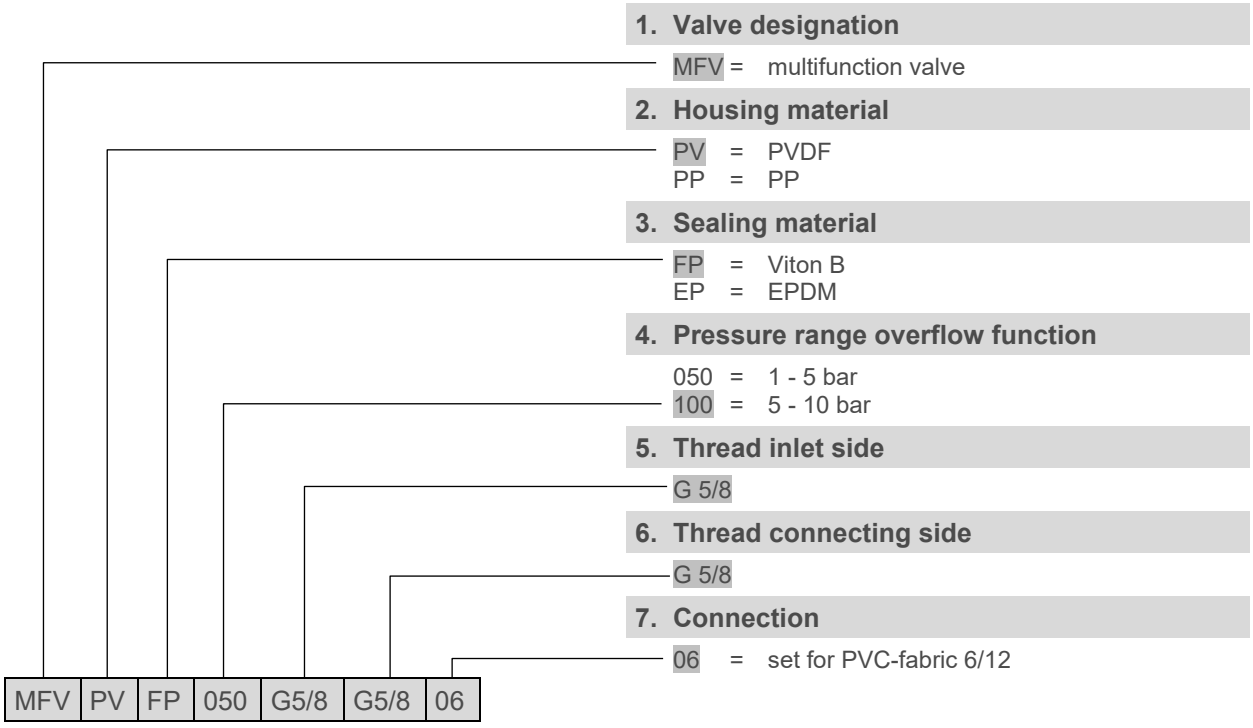
All components with moveable parts are subject to wear, including multi-function valves.

We therefore recommend inspecting the multi-function valves for leaks and proper functioning at all service appointments and replacing them if necessary.



Article	Article no.
Pump type 30	
MFV PP FP 50 G 5/8 – G 5/8 – 06	249248
MFV PP EP 50 G 5/8 – G 5/8 – 06	249268
MFV PV FP 50 G 5/8 – G 5/8 – 06	249242
MFV PV EP 50 G 5/8 – G 5/8 – 06	249262
Pump type 50	
MFV PP FP 100 G 5/8 – G 5/8 – 06	249249
MFV PP EP 100 G 5/8 – G 5/8 – 06	249269
MFV PV FP 100 G 5/8 – G 5/8 – 06	249243
MFV PV EP 100 G 5/8 – G 5/8 – 06	249263

Article code



7.3.6 Metering valve

Ecolab metering valves are designed as spring-loaded ball valves. They prevent the dosing line from running empty and thus increase the metering accuracy of the system.

Note:

All components with moveable parts are subject to wear, including metering valves.

We therefore recommend inspecting the metering valves for leaks and proper functioning at all service appointments and replacing them if necessary.

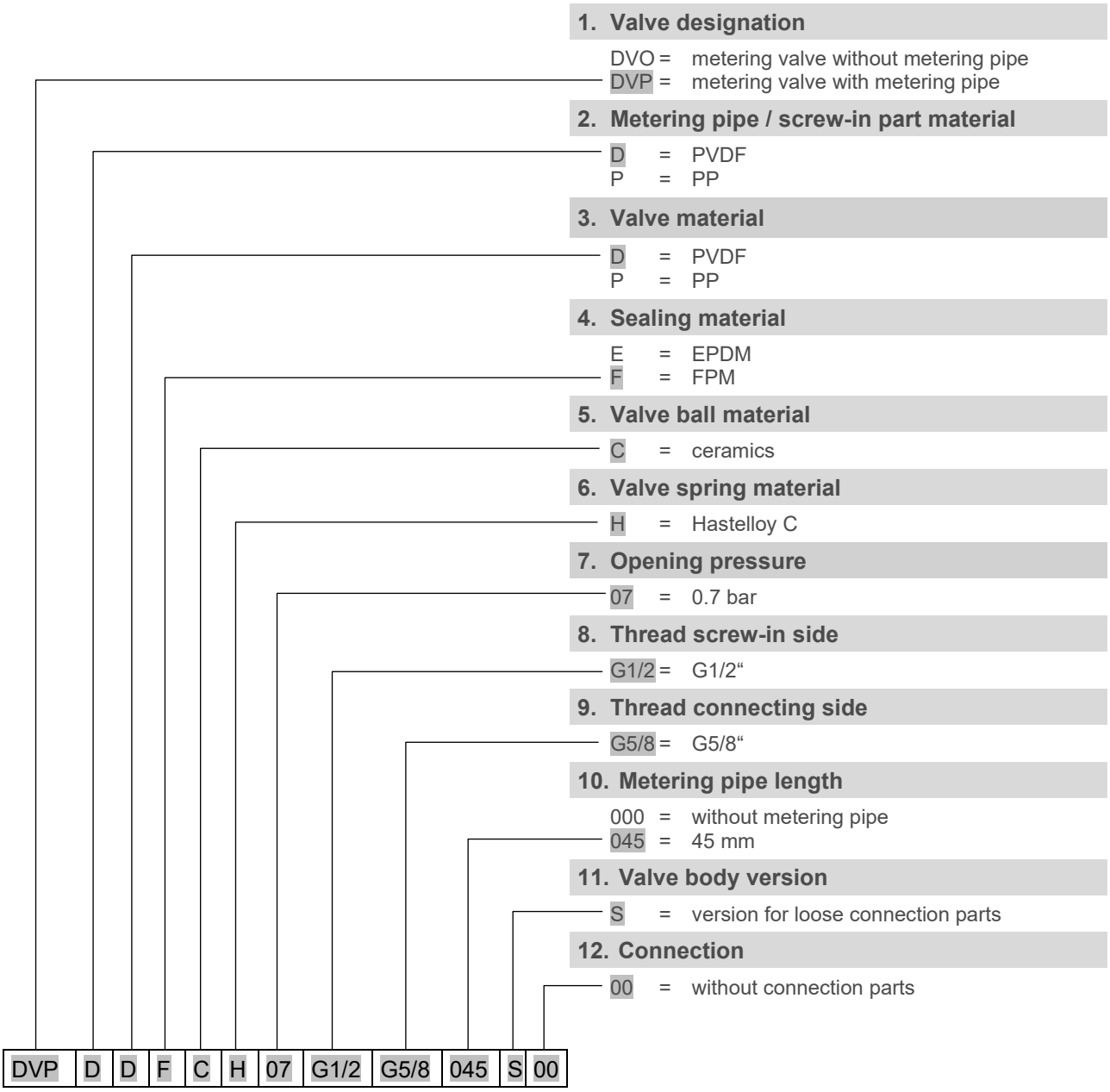


Article	Article no.
Metering valve with metering pipe	
DVP PPFC-H07-G1/2-G5/8-045-S00	252177
DVP PPEC-H07-G1/2-G5/8-045-S00	252178
DVP DDFC-H07-G1/2-G5/8-045-S00	252179
DVP DDEC-H07-G1/2-G5/8-045-S00	252180
Metering valve without metering pipe	
DVO PPFC-H07-G1/2-G5/8-000-S00	252173
DVO PPEC-H07-G1/2-G5/8-000-S00	252174
DVO DDFC-H07-G1/2-G5/8-000-S00	252175
DVO DDEC-H07-G1/2-G5/8-000-S00	252176

Note:

Hose connection set has to be ordered separately,
see **7.3.1 Connection material.**

Metering valve code



7.3.7 Suction and pressure lines

	Article		Article no.
	Suction and pressure lines		
	available by the metre (int.Ø / ext.Ø)	max. operating pressure [bar] at 20 °C	
	PVC-fabric 6/12 mm	16 bar	417400123
	PVC-fabric 10/16 mm	16 bar	417400126
	PE hose 6/8 mm	8 bar	417400310
	PE hose 9/12 mm	9 bar	417400304
	PTFE hose 6/8 mm	9 bar	417400224
	PTFE hose 9/12 mm	9 bar	417400281

Note: **PVC hoses**
PVC hoses only have a limited service life!
Especially when metering alkaline media or under heavy mechanical load, the service life can drop to less than 6 months.

Other hose materials
The service life of other hose materials is also limited!
Depending on the metering medium and the mechanical load, the service life can vary greatly.

We therefore recommend checking the dosing hoses at all service appointments and replacing them if necessary.

7.4 Accessories 120 l/h

7.4.1 Connection material

Article	Article no.
Connection set for PVC hose 12/21 mm	
Connection set Di12/Da21-G11/4-PP-GY	249238
Connection set Di12/Da21-G11/4-PVDF-NA	249258
Connecting parts for pipe connection DN20/d25	
Union nut PP G1¼“	415099835
Insertion part (welded sleeve) PP DN20/d25 - 1¼“	415099709
Union nut PVDF G1¼“	415099072
Insertion part (welded sleeve) PVDF DN20/d25 - 1¼“	415099033
Connecting parts for transition to standard thread	
Union nut PP G1¼“	415099835
Insertion part PP G1/2“$_i$ - 1¼“	34950259
Insertion part PP G1“$_a$ (NPT) - 1¼“	34900276
Union nut PVDF G1¼“	415099072
Insertion part PVDF G1/2“$_i$ - 1¼“	34950235
Insertion part PVDF G1“$_a$ (NPT) - 1¼“	34900277

7.4.2 Suction lances

Ecolab suction lances include a protective function as well as a monitoring function. A sieve protects the metering pump from coarse particles, and a ball check valve prevents the suction line from running empty. At the same time, level messages for the states "pre-warning" and "empty" are provided via two float switches.

Note:

All components with moving parts are subject to wear, including suction lances.

We therefore recommend inspecting the suction lances for leaks and proper functioning at all service appointments and replacing them if necessary.

	Article	Article no.



Suction lances D32 with reserve and empty signal report

incl. of ball non-return valve, suction strainer and potential-free contacts for level pre-warning and empty signal (when dropping below the level = contact interrupted).

Tube diameter:	32 mm
Material:	see suction lance code
Connection cable:	3-pin plug incl. 5 m cable
Turn-on voltage:	max. 50 V AC/DC
Switching current:	0.5 A
Rupturing capacity:	10 W / 10 VA

A-SGL-VDFEC-G5/8-10-2SS-0475-99-99-p	10240410
A-SGL-VDFEC-G5/8-10-2SS-0725-99-99-p	10240411
A-SGL-VDFEC-G5/8-10-2SS-1125-99-99-p	10240412
A-SGL-VDFEC-G5/8-10-2SS-1300-99-99-p	10240413

Suction lance code, see next page!

Note:

Hose connection set has to be ordered separately,
see **7.3.1 Connection material.**



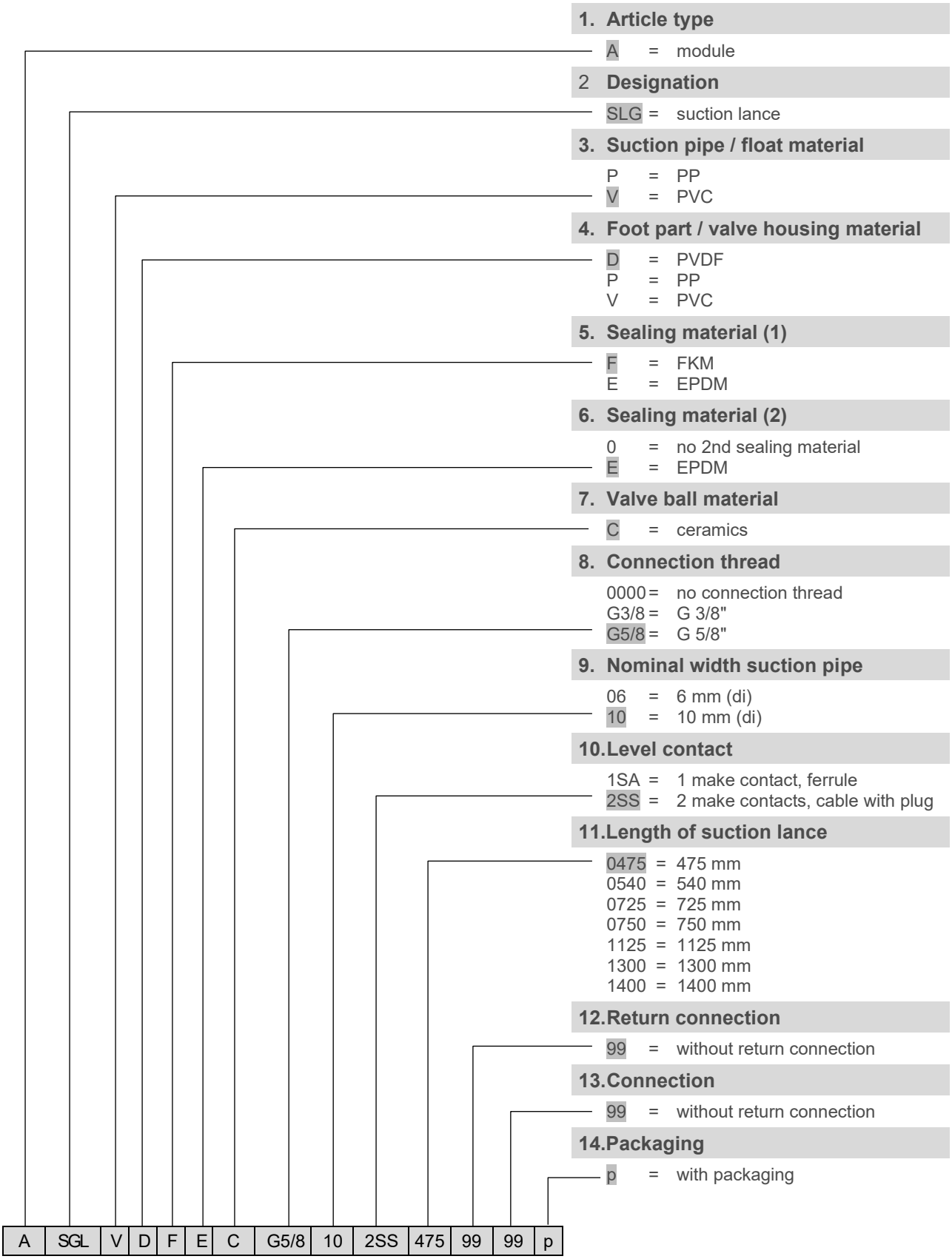
Protection tube for suction lances, D32 286191

PVDF, 32.5/40 (ID/AD)

for prevention of mechanical damage of the suction valve and the float respectively
suitable for all suction lances Ø 32 mm

incl. fastening screw

Suction lance code



7.4.3 Bottom admission valve

Bottom suction valves protect against dirt and coarse particles by means of a suction strainer. The integrated ball check valve prevents the suction line from running empty.

Note:

All components with moving parts are subject to wear, including bottom suction valves.

We therefore recommend inspecting the bottom suction valves for leaks and proper functioning at all service appointments and replacing them if necessary.



Article	Article no.
BSV PP PP FP KE 000 G11/4 - 99	250011
BSV PP PP EP KE 000 G11/4 – 99	250012
BSV PV PV FP KE 000 G11/4 - 99	249082
BSV PV PV EP KE 000 G11/4 - 99	on request

Note:
Hose connection set has to be ordered separately,
see **7.4.1 Connection material**.

Article code

1. Valve designation
BSV = bottom admission valve

2. Housing material
PP = PP
PV = PVDF

3. Valve body material
PP = PP
PV = PVDF

4. Sealing material
FP = Viton B
EP = EPDM

5. Valve ball material
KE = ceramics

6. Valve spring pressure
000 = without spring

7. Thread connecting side
G1¼ = G1¼”

8. Connection
99 = without connection

BSV	PP	PP	FP	KE	000	G1¼	99

7.4.4 Metering valves

Ecolab metering valves are designed as spring-loaded ball valves. They prevent the dosing line from running empty and thus increase the metering accuracy of the system.

Note:

All components with moveable parts are subject to wear, including metering valves.

We therefore recommend inspecting the metering valves for leaks and proper functioning at all service appointments and replacing them if necessary.



Article	Article no.
Metering valve with metering pipe	
DVP PPFC-H08-G3/4-G5/4-150-S00	252184
DVP PPEC-H08-G3/4-G5/4-150-S00	252185
DVP DDFC-H08-G3/4-G5/4-150-S00	252186
DVP DDEC-H08-G3/4-G5/4-150-S00	252187



Metering valve without metering pipe (suction / pressure valve)	
DVO 0PFC-H08 G5/4-G5/4-000-S00	249518
DVO 0PEC-H08 G5/4-G5/4-000-S00	249519
DVO 0DFC-H08 G5/4-G5/4-000-S00	252038
DVO 0DEC-H08 G5/4-G5/4-000-S00	252039

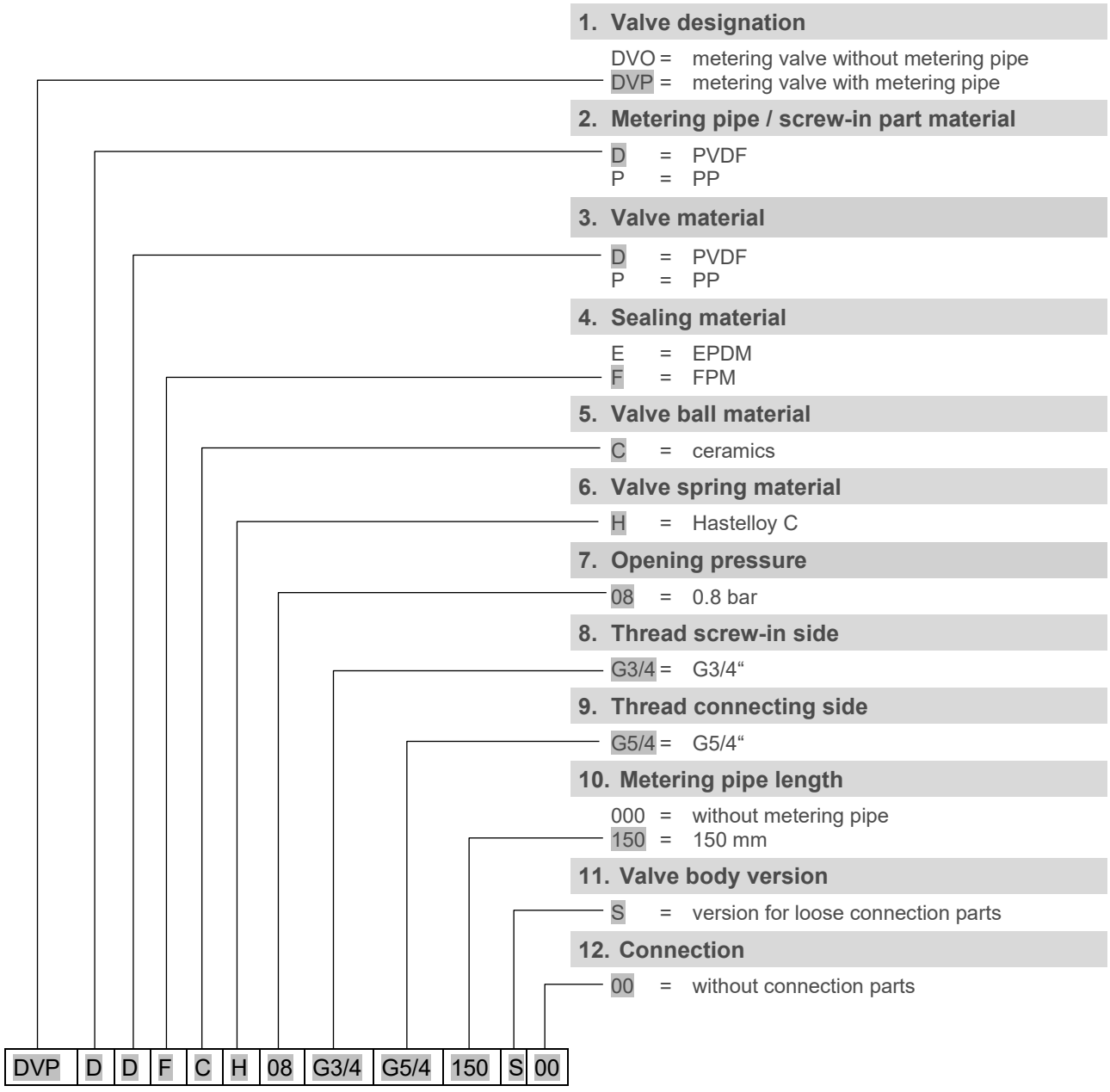
Attention!

When installing, please observe the direction of flow (see embossed direction arrow).

Note:

Hose connection set has to be ordered separately, see **7.4.1 Connection material**.

Metering valve code



7.4.5 Suction and pressure lines



Suction and pressure lines

available by the metre
max. operating pressure: 15 bar (at 20 °C)

PVC-fabric, 12/21 mm (int.Ø/ext.Ø)	417400127
PVC-fabric, 19/27 mm (int.Ø/ext.Ø)	417400131

Note:

PVC hoses
PVC hoses only have a limited service life!
Especially when metering alkaline media or under heavy mechanical load, the service life can drop to less than 6 months.

Other hose materials
The service life of other hose materials is also limited!
Depending on the metering medium and the mechanical load, the service life can vary greatly.

We therefore recommend checking the dosing hoses at all service appointments and replacing them if necessary.