

MOUNTING INSTRUCTION



0300-341

CIRCUIT SET I 0-190 M, 2 DIAPHRAGM VALVES Ø63



0300-342

CIRCUIT SET XI INLINE BALL VALVE SS Ø63



0300-343

CIRCUIT SET III MORE THAN 280 M, - 2 BALL VALVES SS Ø63



0300-344

CIRCUIT SET II 190-280 M, 1 DIAPHRAGM VALVES - 1 BALL VALVE SS Ø63



0300-345

CIRCUIT SET X NO RETURN MORE THAN 190 M, - 1 BALL VALVE SS Ø63



0300-346

CIRCUIT SET X NO RETURN MORE THAN 0-190 M, - 1 DIAPHRAGM VALVE Ø63



0138-866

SUPPLY/RECIRCULATION VALVE - DIAPHRAGM SECTION VALVE 1½" 24VDC



0300-371

CIRCUIT SET X NO RETURN MORE THAN 0-190 M. - 1 DIAPHRAGM VALVE Ø40/50



0300-372

CIRCUIT SET I 0-190 M. - 2 DIAPHRAGM VALVES Ø40/50

CIRCUIT SETS FOR LIQUID FEEDING



ACO FUNKI A/S
Kirkevænget 5
DK-7400 Herning

Tel. +45 9711 9600
Fax +45 9711 9677
www.acofunki.com

DANISH DESIGN | GERMAN QUALITY | GLOBAL EXPERIENCE

PARTS LISTS



No.	Item no.	Description	Pcs.	Unit
	0300-341	CIRCUIT SET I 0-190 M, 2 DIAPHRAGM VALVES Ø63		
	0300-381	CIRCUIT SET I 0-190 M, 2 DIAPHRAGM VALVES Ø50		
1	29100001	THREAD TAPE 1 ROLL = 10 M	2	RO.
2	0139-437	PVC TUBE CLEAR Ø63X160	2	PCS.
3	23900104	PVC UNION Ø63 MM	2	PCS.
4	33508013	NUT M8 A2 DIN 934	12	PCS.
5	30308030	SET SCREW M8X30 A2 DIN 933	4	PCS.
6	30308035	SET SCREW M8X35 A2 DIN 933	8	PCS.
7	0138-451	MEMBRANE DN40	2	PCS.
8	0138-449	VALVE HOLDER DN40	2	PCS.
9	23900096	O-RING Ø45X4 FOR Ø63 VALVE HOUSING	2	PCS.
10	0139-188	VALVE HOUSING 1 1/2" DN40	2	PCS.
11	0140-069	PLASTIC VALVE COVER DN40	2	PCS.
12	0138-127	SOCKET WITH DIODE INCL. SCREW AND PACKING	2	PCS.
13	0140-091	VALVE SET FOR VALVE COVER 220/24 VDC DN40	2	PCS.
14	0140-068	NIPPLE SS 2" - 1½" EXTERNAL THREAD	2	PCS.
15	23901695	PVC UNION Ø63/2"	2	PCS.
16	30308125	SET SCREW WITH CAPTIVE FLAT WASHER M8X25 A2 DIN 6902A	4	PCS.
	0300-381	EXTRA (FOR 50 MM RØR)		
17	23900516	PVC REDUCTION Ø63 X Ø50 MM	2	PCS.
18	0138-128	FITTING FOR LIQUID FEED VALVE WHEN PIPE IS Ø50	2	PCS.



No.	Item no.	Description	Pcs.	Unit
	0300-342	CIRCUIT SET XI INLINE BALL VALVE SS Ø63		
	0300-382	CIRCUIT SET XI INLINE BALL VALVE SS Ø50		
1	23900104	PVC UNION Ø63 MM	1	PCS.
2	0139-437	PVC TUBE CLEAR Ø63X160	1	PCS.
3	12100292	BALL VALVE 2" WITH ACTUATOR AND SOLENOID	1	PCS.
4	0330-011	CABLE FOR SECTION VALVE	1	PCS.
5	29100001	THREAD TAPE 1 ROLL = 10 M	2	RO.
6	12100117	AIR T PUSH-IN FITTINGS Ø8/Ø8/Ø8	1	PCS.
7	23901695	PVC UNION Ø63/2"	1	PCS.
8	0140-067	NIPPLE STAINLESS STEEL 2" EXTERNAL THREAD	2	PCS.
9	23900121	PVC ADAPTER FITTING Ø63 MM X 2" INSIDE THREAD	1	PCS.
	0300-382	EXTRA (FOR 50 MM RØR)		
10	23900516	PVC REDUCTION Ø63 X Ø50 MM	2	PCS.

PARTS LISTS



No.	Item no.	Description	Pcs.	Unit
	0300-345	CIRCUIT SET X NO RETURN MORE THAN 190 M, - 1 BALL VALVE SS Ø63		
	0300-385	CIRCUIT SET X NO RETURN MORE THAN 190 M, - 1 BALL VALVE SS Ø50		
1	23900104	PVC UNION Ø63 MM	1	PCS.
2	0139-437	PVC TUBE CLEAR Ø63X160	1	PCS.
3	12100292	BALL VALVE 2" WITH ACTUATOR AND SOLENOID	1	PCS.
4	0330-011	CABLE FOR SECTION VALVE	1	PCS.
5	29100001	THREAD TAPE 1 ROLL = 10 M	2	RO.
6	12100117	AIR T PUSH-IN FITTINGS Ø8/Ø8/Ø8	1	PCS.
7	23901695	PVC UNION Ø63/2"	2	PCS.
8	0140-067	NIPPLE STAINLESS STEEL 2" EXTERNAL THREAD	3	PCS.
9	23900121	PVC ADAPTER FITTING Ø63 MM X 2" INSIDE THREAD	1	PCS.
10	0140-066	ANGLE SS 45° 2' OUTSIDE THREAD	1	PCS.
11	0140-065	TEE SS 45° 2' INSIDE THREAD	1	PCS.
12	23900198	PVC BALL VALVE Ø63 MM - 10 BAR	1	PCS.
	0300-385	EXTRA (FOR 50 MM RØR)		
13	23900516	PVC REDUCTION Ø63 X Ø50 MM	4	PCS.



No.	Item no.	Description	Pcs.	Unit
	0300-346	CIRCUIT SET X NO RETURN MORE THAN 0-190 M, - 1 DIAPHRAGM VALVE Ø63		
	0300-386	CIRCUIT SET X NO RETURN MORE THAN 0-190 M, - 1 DIAPHRAGM VALVE Ø50		
1	29100001	THREAD TAPE 1 ROLL = 10 M	1	RO.
2	0139-437	PVC TUBE CLEAR Ø63X160	1	PCS.
3	23900104	PVC UNION Ø63 MM	1	PCS.
4	33508013	NUT M8 A2 DIN 934	6	PCS.
5	30308030	SET SCREW M8X30 A2 DIN 933	2	PCS.
6	30308035	SET SCREW M8X35 A2 DIN 933	4	PCS.
7	0138-451	MEMBRANE DN40	1	PCS.
8	0138-449	VALVE HOLDER DN40	1	PCS.
9	23900096	O-RING Ø45X4 FOR Ø63 VALVE HOUSING	1	PCS.
10	0139-188	VALVE HOUSING 1 1/2" DN40	1	PCS.
11	0140-069	PLASTIC VALVE COVER DN40	1	PCS.
12	0138-127	SOCKET WITH DIODE INCL. SCREWD AND PACKING	1	PCS.
13	0140-091	VALVESET FOR VALVECOVER 24VDC DN40	1	PCS.
14	0140-068	NIPPLE SS 2" - 1½" EXTERNAL THREAD	1	PCS.
15	23901695	PVC UNION Ø63/2"	1	PCS.
16	23900198	PVC BALL VALVE Ø63 MM - 10 BAR	1	PCS.
17	30308125	SET SCREW WITH CAPTIVE FLAT WASHER M8X25 A2 DIN 6902A	2	PCS.
	0300-386	EXTRA (FOR 50 MM RØR)		
18	23900516	PVC REDUCTION Ø63 X Ø50 MM	2	PCS.
19	0138-128	FITTING FOR LIQUID FEED VALVE WHEN PIPE IS Ø50	1	PCS.

PARTS LISTS



No.	Item no.	Description	Pcs.	Unit
	0300-343	CIRCUIT SET III MORE THAN 280 M, - 2 BALL VALVES SS Ø63		
	0300-383	CIRCUIT SET III MORE THAN 280 M, - 2 BALL VALVES SS Ø50		
1	23900104	PVC UNION Ø63 MM	2	PCS.
2	0139-437	PVC TUBE CLEAR Ø63X160	2	PCS.
3	12100292	BALL VALVE 2' WITH ACTUATOR AND SOLENOID	2	PCS.
4	0330-011	CABLE FOR SECTION VALVE	2	PCS.
5	29100001	THREAD TAPE 1 ROLL = 10 M	4	RO.
6	12100117	AIR T PUSH-IN FITTINGS Ø8/Ø8/Ø8	2	PCS.
7	23901695	PVC UNION Ø63/2"	4	PCS.
8	0140-067	NIPPLE STAINLESS STEEL 2" EXTERNAL THREAD	6	PCS.
9	23900121	PVC ADAPTER FITTING Ø63 MM X 2" INSIDE THREAD	2	PCS.
10	0140-066	ANGLE SS 45° 2' OUTSIDE THREAD	2	PCS.
11	0140-065	TEE SS 45° 2' INSIDE THREAD	2	PCS.
	0300-383	EXTRA (FOR 50 MM RØR)		
12	23900516	PVC REDUCTION Ø63 X Ø50 MM	6	PCS.



No.	Item no.	Description	Pcs.	Unit
	0300-344	CIRCUIT SET II 190-280 M, 1 DIAPHRAGM VALVES - 1 BALL VALVE SS Ø63		
	0300-384	CIRCUIT SET II 190-280 M, 1 DIAPHRAGM VALVES - 1 BALL VALVE SS Ø50		
1	23900104	PVC UNION Ø63 MM	2	PCS.
2	0139-437	PVC TUBE CLEAR Ø63X160	2	PCS.
3	12100292	BALL VALVE 2' WITH ACTUATOR AND SOLENOID	1	PCS.
4	0330-011	CABLE FOR SECTION VALVE	1	PCS.
5	29100001	THREAD TAPE 1 ROLL = 10 M	4	RO.
6	12100117	AIR T PUSH-IN FITTINGS Ø8/Ø8/Ø8	1	PCS.
7	23901695	PVC UNION Ø63/2"	3	PCS.
8	0140-067	NIPPLE STAINLESS STEEL 2" EXTERNAL THREAD	3	PCS.
9	23900121	PVC ADAPTER FITTING Ø63 MM X 2" INSIDE THREAD	1	PCS.
10	33508013	NUT M8 A2 DIN 934	6	PCS.
11	30308030	SET SCREW M8X30 A2 DIN 933	2	PCS.
12	30308035	SET SCREW M8X35 A2 DIN 933	4	PCS.
13	0138-449	VALVE HOLDER DN40	1	PCS.
14	0138-451	MEMBRANE DN40	1	PCS.
15	23900096	O-RING Ø45X4 FOR Ø63 VALVE HOUSING	1	PCS.
16	0139-188	VALVE HOUSING 1 1/2' DN40	1	PCS.
17	0140-069	PLASTIC VALVE COVER DN40	1	PCS.
18	0138-127	SOCKET WITH DIODE INCL. SCREW AND PACKING	1	PCS.
19	0140-091	VALVE SET FOR VALVE COVER 220/24 VDC DN40	1	PCS.
20	0140-068	NIPPLE SS 2" - 1½" EXTERNAL THREAD	1	PCS.
21	30308125	SET SCREW WITH CAPTIVE FLAT WASHER M8X25 A2 DIN 6902A	2	PCS.
22	0140-066	ANGLE STAINLESS STEEL 45° 2" OUTSIDE THREAD	1	PCS.
23	0140-065	TEE STAINLESS STEEL 45° 2" INSIDE THREAD	1	PCS.
	0300-384	EXTRA (FOR 50 MM RØR)		
21	23900516	PVC REDUCTION Ø63 X Ø50 MM	4	PCS.
22	0138-128	FITTING FOR LIQUID FEED VALVE WHEN PIPE IS Ø50	1	PCS.

PARTS LISTS



No.	Item no.	Description	Pcs.	Unit
	0300-371	CIRCUIT SET X NO RETURN MORE THAN 0-190 M. - 1 DIAPHRAGM VALVE Ø40/50		
1	29100001	THREAD TAPE 1 ROLL = 10 M	1	RO.
2	0140-180	PIPE CLEAR Ø40X160 MM	1	PCS.
3	23900563	PVC UNION Ø40 MM	1	PCS.
4	33508013	NUT M8 A2 DIN 934 WAXED	6	PCS.
5	30308035	SET SCREW M8X35 A2 DIN 933	6	PCS.
6	0138-451	MEMBRANE DN40	1	PCS.
7	0140-056	TIGHTENING PLATE FOR 50 MM VALVE	1	PCS.
8	23900095	O-RING Ø43,0X4,5 FOR Ø50 VALVEHOUSING	1	PCS.
9	0140-054	VALVE HOUSING 5/4" DN40 50 MM	1	PCS.
10	0140-069	PLASTIC VALVE COVER DN40	1	PCS.
11	0138-127	SOCKET WITH DIODE INCL. SCREW AND PACKING	1	PCS.
12	0140-091	VALVESET FOR VALVECOVER 24VDC DN40	1	PCS.
13	0140-075	INSERT FOR Ø50 FEEDVALVE TO 40 MM	1	PCS.
14	23900566	PVC THREADED NIPPLE Ø40/50 MM X 1¼"	1	PCS.
15	23900562	PVC BALL VALVE Ø40 MM	1	PCS.
16	30308125	SET SCREW WITH CAPTIVE FLAT WASHER M8X25 A2 DIN 6902A	2	PCS.



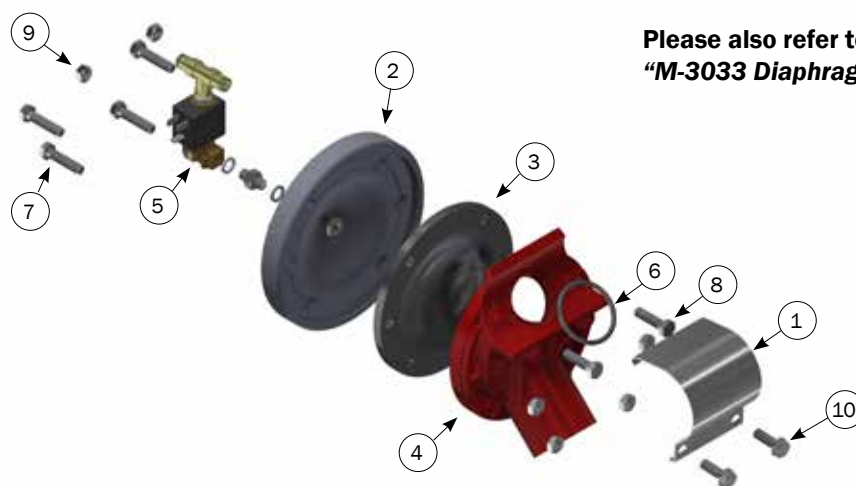
No.	Item no.	Description	Pcs.	Unit
	0300-372	CIRCUIT SET I 0-190 M. - 2 DIAPHRAGM VALVES Ø40/50		
1	29100001	THREAD TAPE 1 ROLL = 10 M	2	RO.
2	0140-180	PIPE CLEAR Ø40X160 MM	2	PCS.
3	23900563	PVC UNION Ø40 MM	2	PCS.
4	33508013	NUT M8 A2 DIN 934 WAXED	12	PCS.
5	30308035	SET SCREW M8X35 A2 DIN 933	12	PCS.
6	0138-451	MEMBRANE DN40	2	PCS.
7	0140-056	TIGHTENING PLATE FOR 50 MM VALVE	2	PCS.
8	23900095	O-RING Ø43,0X4,5 FOR Ø50 VALVEHOUSING	2	PCS.
9	0140-054	VALVE HOUSING 5/4" DN40 50 MM	2	PCS.
10	0140-069	PLASTIC VALVE COVER DN40	2	PCS.
11	0138-127	SOCKET WITH DIODE INCL. SCREW AND PACKING	2	PCS.
12	0140-091	VALVESET FOR VALVECOVER 24VDC DN40	2	PCS.
13	0140-075	INSERT FOR Ø50 FEEDVALVE TO 40 MM	2	PCS.
14	23900566	PVC THREADED NIPPLE Ø40/50 MM X 1¼"	2	PCS.
15	30308125	SET SCREW WITH CAPTIVE FLAT WASHER M8X25 A2 DIN 6902A	4	PCS.

PARTS LISTS



No.	Item no.	Description	Pcs.	Unit
	0138-866	SUPPLY/RECIRCULATION VALVE - DIAPHRAGM SECTION VALVE 1½" 24VDC		
1	0138-127	SOCKET WITH DIODE INCL. SCREW AND PACKING	1	PCS.
2	0138-449	VALVE HOLDER DN40	1	PCS.
3	0138-451	MEMBRANE DN40	1	PCS.
4	0139-188	VALVE HOUSING 1½" DN40 63 MM	1	PCS.
5	0139-437	PVC TUBE CLEAR Ø63X160	1	PCS.
6	0140-091	VALVE SET FOR VALVE COVER 24VDC DN40	1	PCS.
7	23900069	PVC ELBOW Ø63 MM X 45°	2	PCS.
8	23900096	O-RING Ø45X4 FOR Ø63 VALVE HOUSING	1	PCS.
9	23900097	PVC THREADED NIPPLE Ø63 MM X 1½"	1	PCS.
10	23900104	PVC UNION Ø63 MM	1	PCS.
11	29100001	THREAD TAPE 1 ROLL = 10 M	1	PCS.
12	30308035	SET SCREW M8X35 A2 DIN 933	4	PCS.
13	30308030	SET SCREW M8X30 A2 DIN 933	2	PCS.
14	33508013	NUT M8 A2 DIN 934 WAXED	6	PCS.
15	30308125	SET SCREW WITH CAPTIVE FLAT WASHER M8X25 A2 DIN 6902A	2	PCS.
16	0140-069	PLASTIC VALVE COVER DN40	1	PCS.

DIAPHRAGM VALVE



Please also refer to mounting instruction
"M-3033 Diaphragm valve"

No.	Item no.	Description	Pcs.	Unit
	0139-975	DIAPHRAGM VALVE 5/4' AD-LIB 63MM		
1	0138-449	VALVE HOLDER DN40	1	PCS.
2	0140-069	PLASTIC VALVE COVER DN40	1	PCS.
3	0138-451	MEMBRANE DN40	1	PCS.
4	0138-452	VALVE HOUSING 5/4" DN40 63 MM	1	PCS.
5	0140-091	VALVESET FOR VALVECOVER 24VDC DN40	1	PCS.
6	23900096	O-RING Ø45X4 FOR Ø63 VALVE HOUSING	1	PCS.
7	30308035	SET SCREW M8X35 A2 DIN 933	4	PCS.
8	30308030	SET SCREW M8X30 A2 DIN 933	2	PCS.
9	33508013	NUT M8 A2 DIN 934 WAXED	6	PCS.
10	30308125	SET SCREW WITH CAPTIVE FLAT WASHER M8X25 A2 DIN 6902A	2	PCS.



Please also refer to mounting instruction
"M-3046 Diaphragm valve AD-LIB"

No.	Item no.	Description	Pcs.	Unit
	0140-061	DIAPHRAGM VALVE 5/4' AD-LIB 50MM		
1	0140-069	PLASTIC VALVE COVER DN40	1	PCS.
2	0138-451	MEMBRANE DN40	1	RO.
3	0140-054	VALVE HOUSING 5/4" DN40 50 MM	1	PCS.
4	0140-056	TIGHTENING PLATE FOR 50 MM VALVE	1	PCS.
5	0140-091	VALVESET FOR VALVECOVER 24VDC DN40	1	PCS.
6	23900095	O-RING Ø43,0X4,5 FOR Ø50 VALVEHOUSING	1	PCS.
7	30308035	SET SCREW M8X35 A2 DIN 933	6	PCS.
8	33508013	NUT M8 A2 DIN 934 WAXED	6	PCS.
9	30308125	SET SCREW WITH CAPTIVE FLAT WASHER M8X25 A2 DIN 6902A	2	PCS.

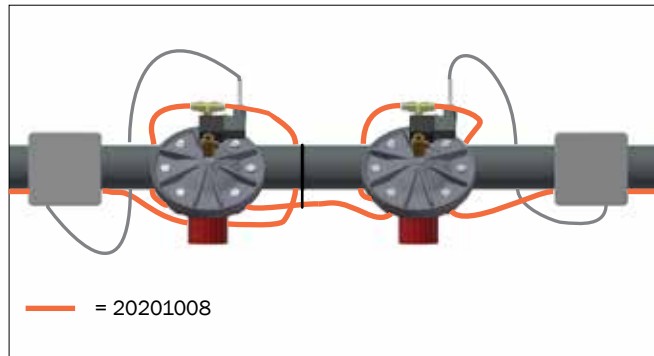
DIAPHRAGM VALVE

Marking of sockets and valves

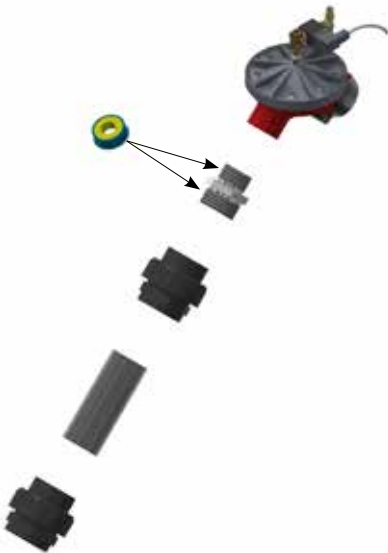
The connection socket and the valve are marked with the number of the valve, so that, in case of break-downs, it is clear to see how the cables are connected to the valve and trough sensor.

When removing the isolation from the cable, make sure that there is a loop of approx. 20 cm cable without outer isolation.

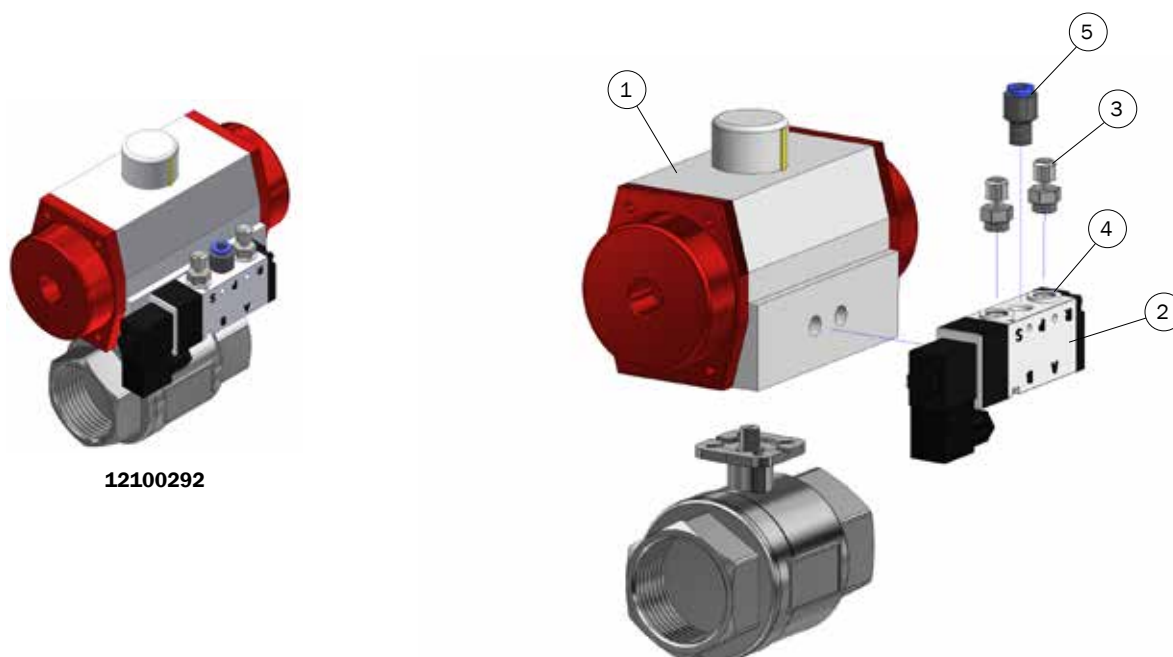
Make sure to use a form of marking that is suitable and lasting.



Sealing with tape



BALL VALVE



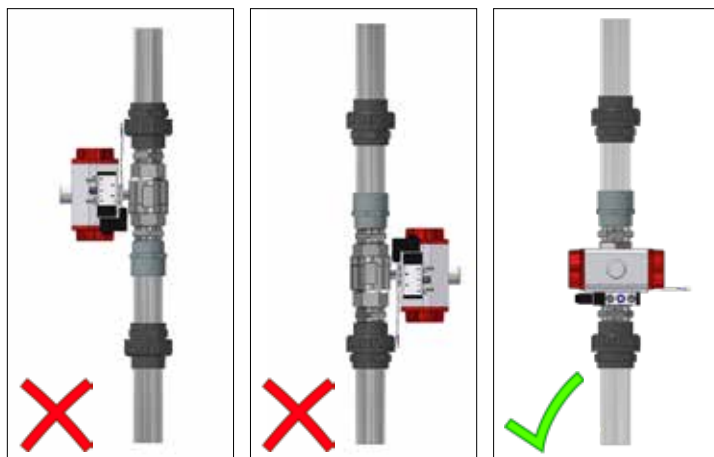
12100292

Spare parts / replaceable parts

No.	Item no.	Description	Pcs.	Unit
	12100292	BALL VALVE 2' WITH ACTUATOR AND SOLENOID		
1	12100243	ACTUATOR FOR BALL AND FLAP VALVE	1	PCS.
2	12100442	AIR NAMUR VALVE 24VDC FOR ACTUATOR	1	PCS.
3	12100215	AIR ADJUSTABLE SILENCER STAINLESS STEEL 1/4"	2	PCS.
4	12100158	NYLON RING CL 2661-1/4'	2	PCS.
5	12100210	QUICK RELEASE COMPRESSION FITTINGS 8/6 - 1/4"	1	PCS.

Correct placement of ball valve

Vertical mounting



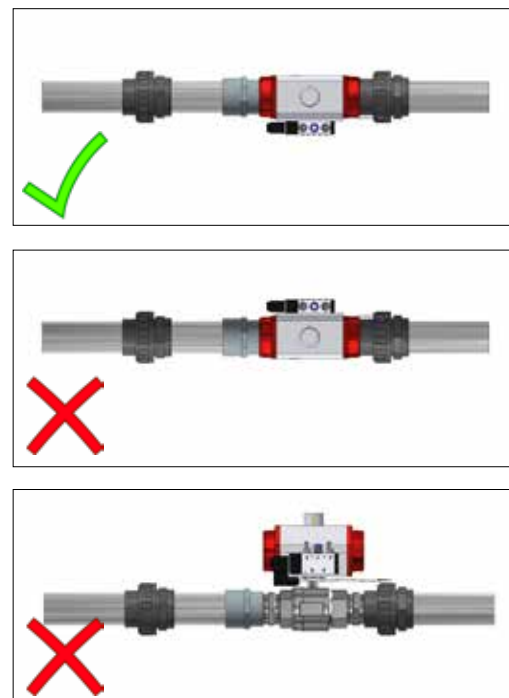
NOTE

The Namur valve must turn downwards to prevent condensation.

The sight glass must always be on the section side - *not* the main circuit side.



Horizontal mounting



OVERVIEW

* The circuit sets 0300-345 and 0300-346 can be used with 0300-342.

0300-342 can be used to "shorten" or "divide" the circuit, if this is appropriate.

