

ST-163.1 4-Way Chemical Valve



The ST-163.1 4-way manifold allows rapid switching between soaps and specialist cleaners. Supplied with 4 sets of nozzles for easy management of your wash bay setup. The ST-163 intake manifold can be mounted on the wall or onto a trolley with various accessories. An adaptor for direct mounting on the ST-167 and ST-168 injectors is available

Item No.: 200163185

4 nozzles 9 mm, color-coded (HACCP)

thread M14 with O-ring seal.

Suitable for injector series: ST-160, 160.2, 160.3, ST-167, ST-168



The 4-fold intake manifold ST-163.1 for all easyfoam365+ injectors

- Material: stainless steel.
- There is no need for changeover times caused by constant changing of suction hoses for media (cleaning agents).
- Individually controllable inlet hose barbs. A noticeable locking system shows that the selected hose barb is optimally positioned and activated.
- 4 sets of dosing nozzles including plugs are supplied, through which the suction volume of the media can be set in suction mode.
- No twisting of the hoses: The control takes place via a twisting part with marking. If the marking is between 2 colored hose barbs, the passage is blocked.
- With various accessories, the ST-163 intake manifold can be mounted on the wall or on a trolley. An adapter for direct mounting on the ST-167 and ST-168 injectors is also available.



4 sets of dosing nozzles included: The plugs can also simply be inserted into the hose barbs.



Mounting accessories can be found on the next page.



Red selected

Deactivated

Intake manifold ST-163.1

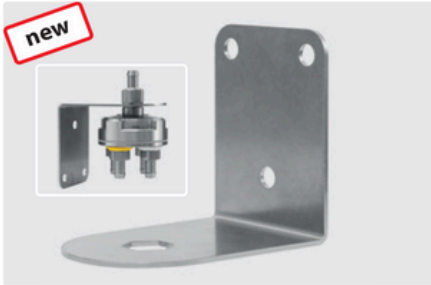


Intake manifold for easyfoam365+ injectors. 4 color-coded suction options. Control by turning the rotating part. Including O-ring and 4 sets of dosing nozzles

R+M Nr.	D
200 163 185	4 sets of dosing nozzles

Intake manifold ST-163.1 accessories

new



Stainless steel wall bracket for intake manifold

R+M Nr.

040 004 013

new



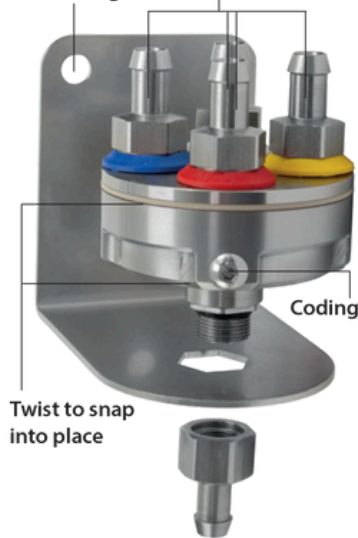
Stainless steel hose barb for intake manifold. Also for mounting on the wall bracket

R+M Nr.

040 003 590

3 holes,
8.5 mm for
fastening

9 mm restrictions color-coded
(HACCP)



Coding

Twist to snap
into place

Easy to mount on the wall or on the trolley: The intake manifold can be attached to the wall bracket with the optionally available stainless steel hose barb.

Adapter for direct
connection



Directly connected with the adapter: The easyfoam365+ injectors ST-167 and ST-168 offer the option of direct connection.

new

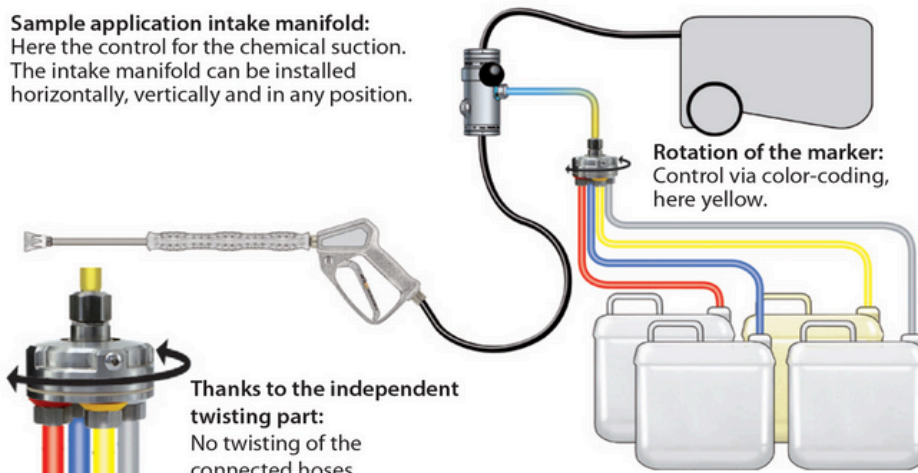


Stainless steel adapter for intake manifold. Incl. O-ring. For mounting on the easyfoam365+ injectors ST-167 / ST-168

R+M Nr.

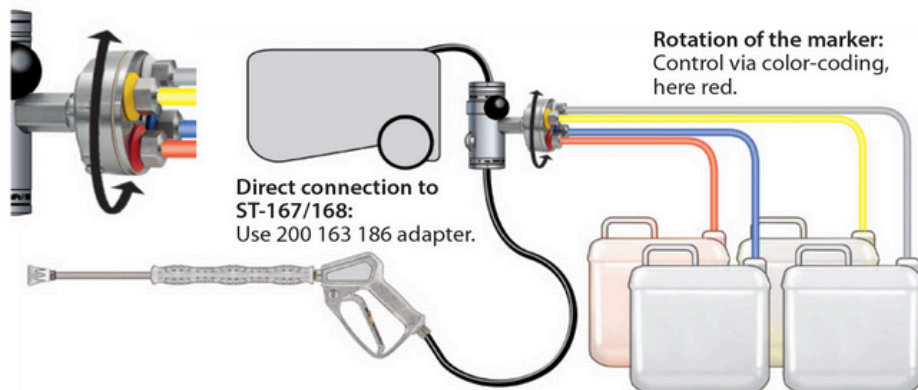
200 163 186

Sample application intake manifold:
Here the control for the chemical suction. The intake manifold can be installed horizontally, vertically and in any position.



Rotation of the marker:
Control via color-coding,
here yellow.

Thanks to the independent
twisting part:
No twisting of the
connected hoses

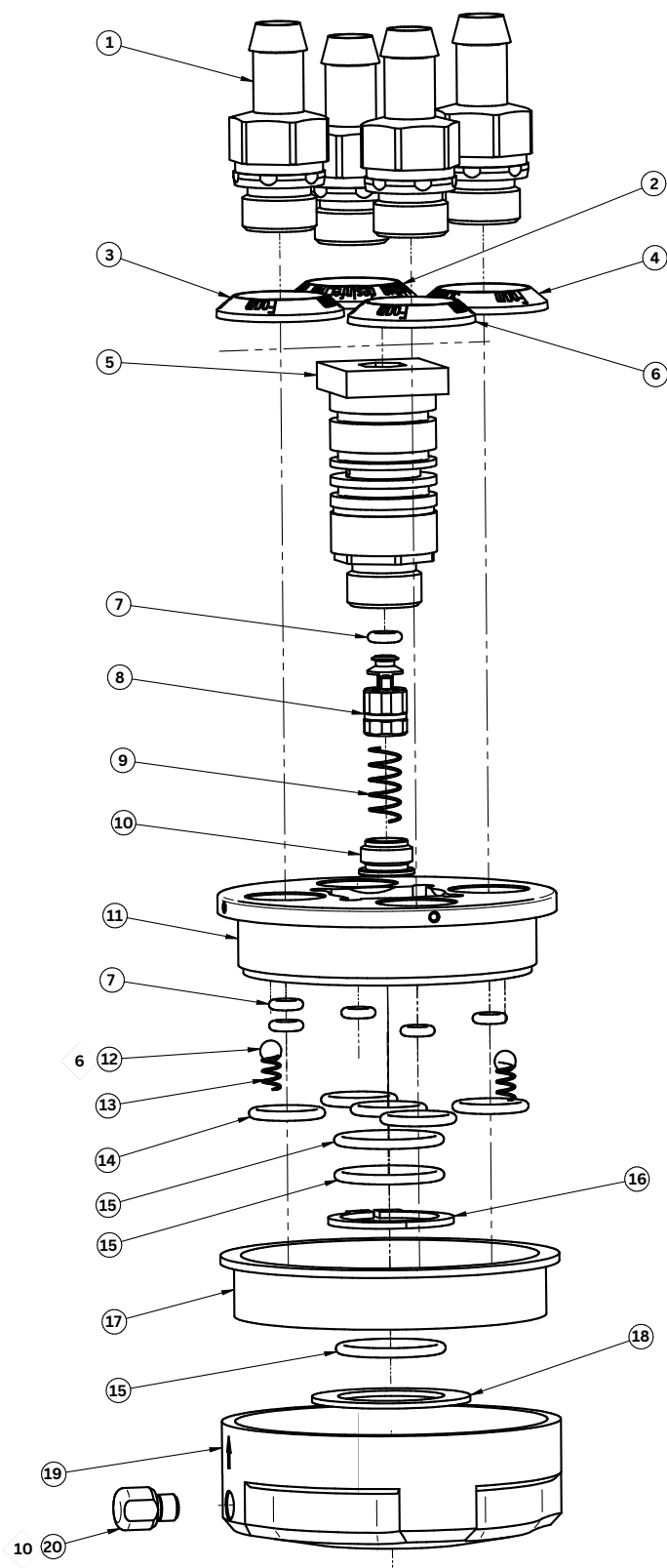


Direct connection to
ST-167/168:
Use 200 163 186 adapter.

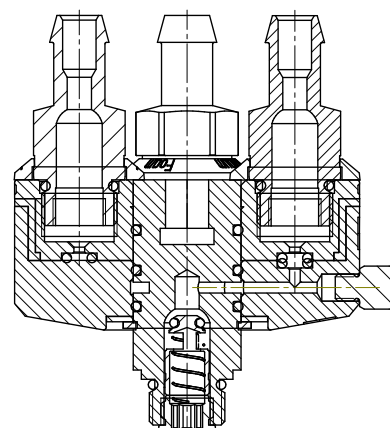
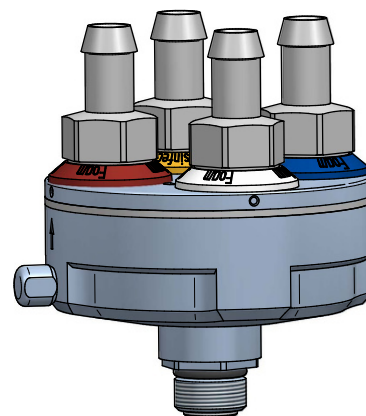
Rotation of the marker:
Control via color-coding,
here red.



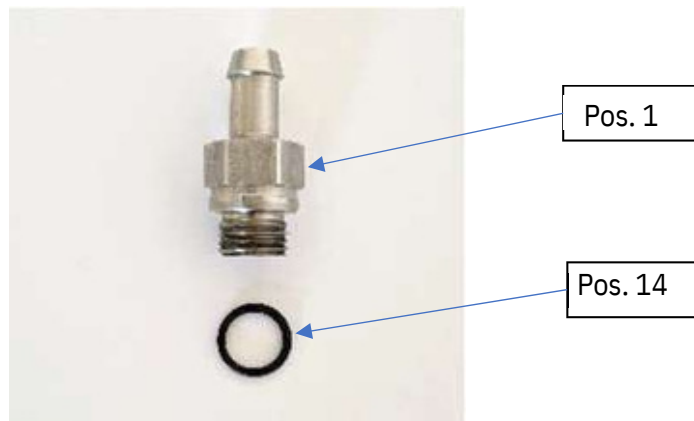
Flexible positioning: the combination can be used in all directions. Horizontal mounting is also possible.



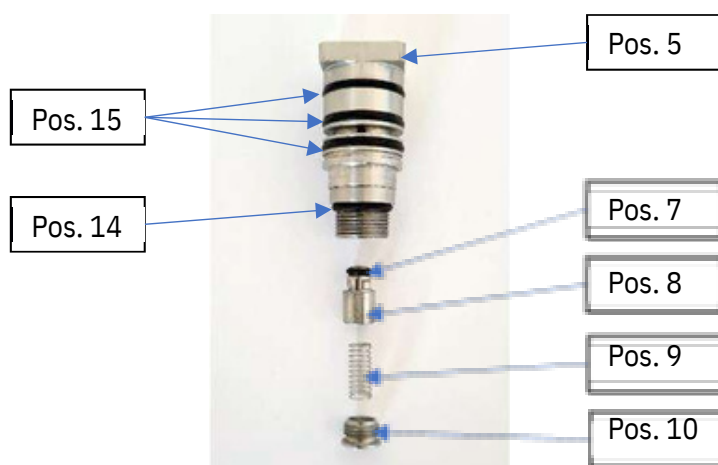
	Item #	Component	Qty
1	040003550	Hose nozzle ST-163	4
2	020005105	Intake marker 2 ST-163 yellow	1
3	020005101	Intake marker 1 ST-163 red	1
4	020005100	Intake marker 1 ST-163 blue	1
5	040004006	Shaft for intake manifold	1
6	020005102	Suction marking 1 foam white	1
7	050000264	O-Ring 2,9x1,78 FKM ETP-75 extr	6
8		Check piston ST-163 V4A	1
9	060001102	Compression spring D0.38x6x15.5 1.4401	1
10	040003558	Threaded plug ST-163	1
11	040004008	Upper part of intake manifold	1
12	040000337	Ceramic ball 4mm	2
13	060000370	Spring D 0.4/ST66/Switch 261	2
14	050000300	O-Ring 10,82x1,78 EPDM 70Shore	5
15	0500002420	O-Ring 17,17x1,78 FEPM 75Sh.Afla	3
16	040001659	Circlip 20x1.2 DIN 471 A2	1
17	020004009	Socket - upper part	1
18	020004012	Thrust washer	1
19	040004007	Twisted part intake manifold	1
20	040004009	Knob for intake manifold	1



Grease all O-rings in their bags with Berusoft 30.
There is a mounting cap on the device.



Install hose nozzle ST-163 (item 1) with O-ring (item 14, 05 0000 300) using a mounting cap.



Mount the check piston ST-163 (pos. 8) with O-ring (pos. 7, 05 0000 264).

Insert the pre-assembled check piston into the shaft (item 5).

Insert the compression spring (item 9) into the hole in the check piston.

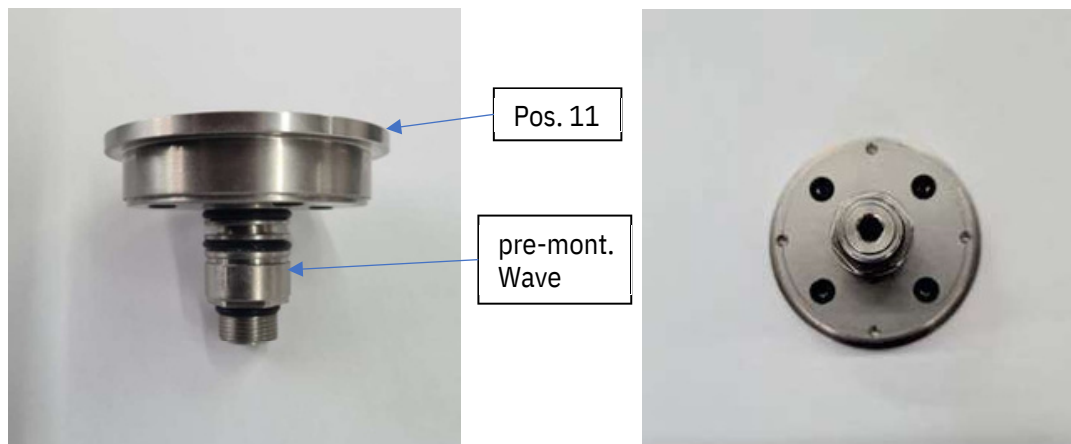
Apply 1 drop of Loctite 638 to the external thread of the threaded plug (item 10).

Screw the threaded plug into the shaft (item 5) using Deprag screwdriver No. 1033913 and special Allen attachment No. 343.

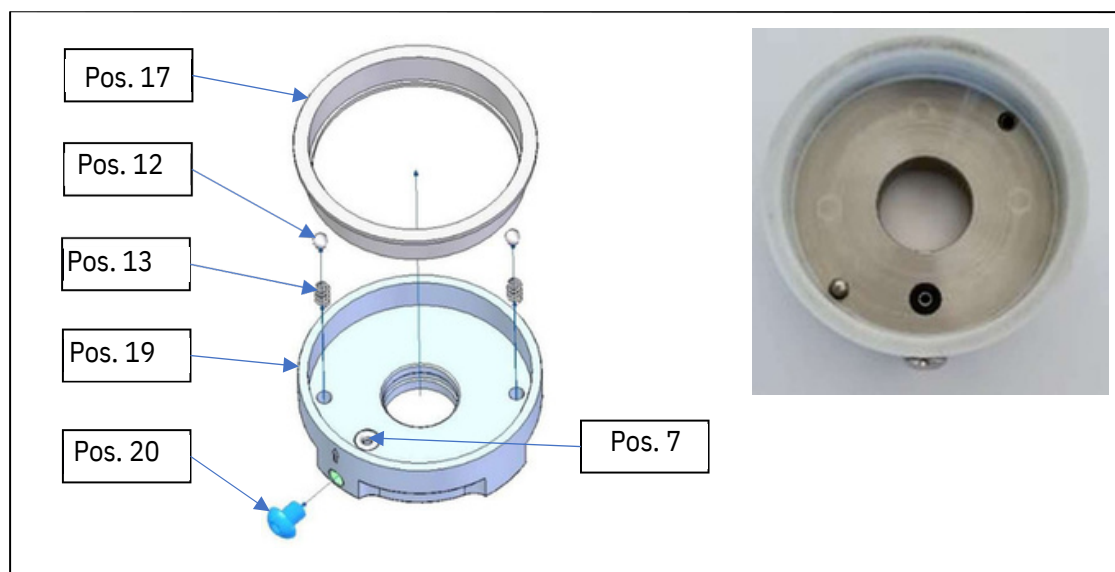
Apply 1 drop of Loctite 638 to the external thread of the threaded plug (item 10).

Screw the threaded plug into the shaft (item 5) using Deprag screwdriver No. 1033913 and special Allen attachment No. 343.

Pull the O-rings (item 14, 050000300 and item 15, 050002420) onto the pre-assembled shaft using a mounting cap.



Press the pre-assembled shaft into the square of the upper part of the intake manifold (item 11).



Screw the FL screw M5X6 (item 20) into the hole provided in the intake manifold turning part (item 19) using the Deprag screwdriver no. 1033913.

Attention: The screw has a screw lock, no further addition of thread sealant is necessary!

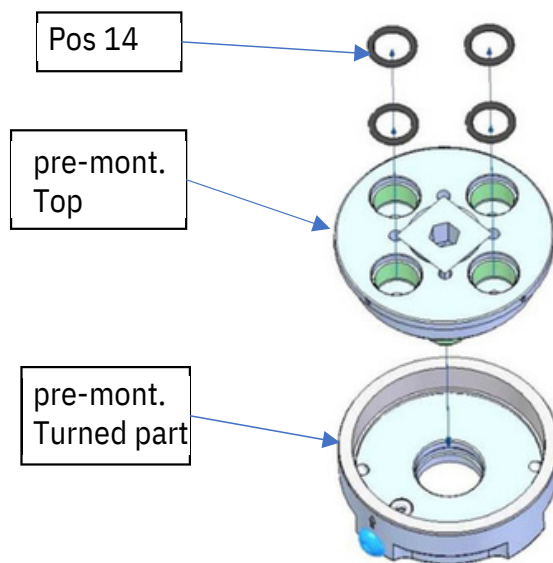


Insert the pre-assembled twisting part into the device (see above). Insert the O-ring (item 7, 05 0000 264) into the groove provided.

Insert the spring (item 13) into the holes provided.

Insert the upper part bushing (item 17) into the twisting part.

Place the ball \varnothing 4mm (item 12) on the pre-assembled springs. Attention: Make sure that the balls remain in the intended position!

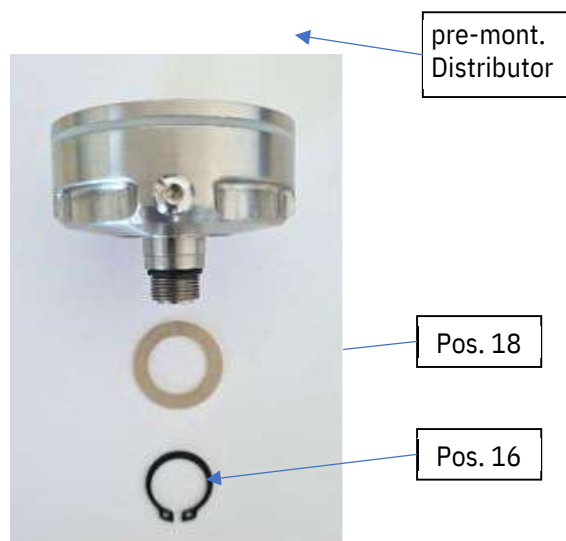


Insert the O-rings (item 14, 05 0000 300) into the pre-assembled upper part.

Insert the pre-assembled upper part into the pre-assembled turned part.

Attention: Make sure that the balls and O-rings are correctly seated when putting the two pre- assembled assemblies together!

The O-rings must also not be damaged during assembly!

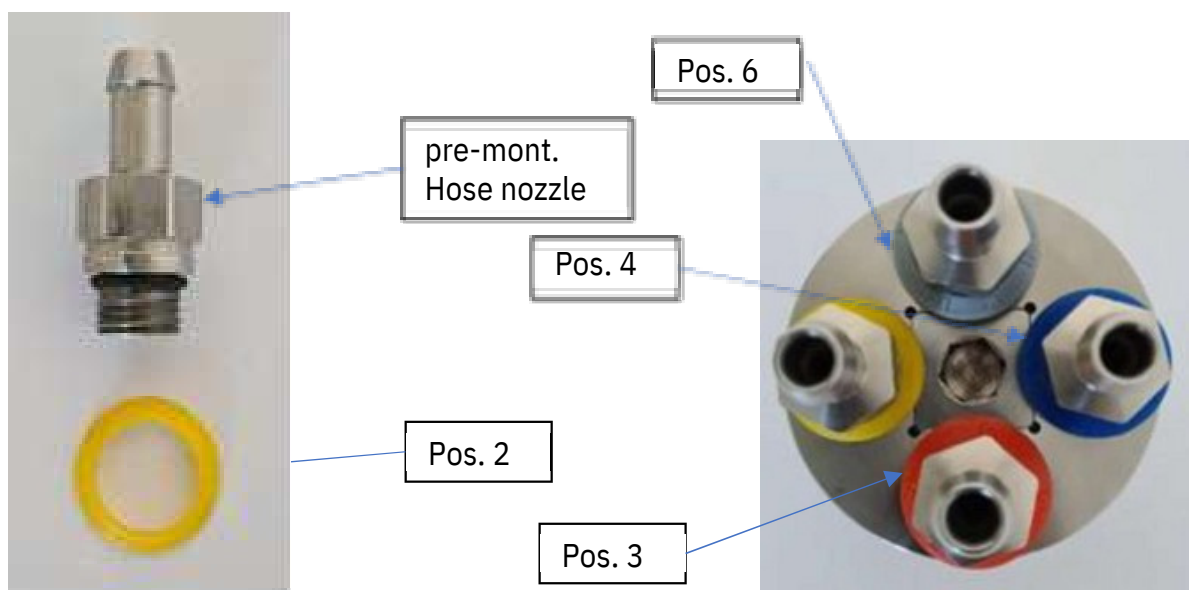


Remove the pre-assembled distributor from the device.

Then push the thrust washer (item 18) over the shaft and press it into the pre-assembled distributor until it rests.

Install the locking ring (item 16) using the appropriate assembly pliers in the groove provided on the shaft of the distributor.

Make sure the retaining ring is seated correctly (if it is not seated correctly, the intake manifold will not function)!



Place the pre-assembly back into the assembly device.

Attach the suction markings yellow (item 2), red (item 3), blue (item 4) and white (item 6) to the pre- assembled hose nozzles (from step 20.1).

Screw the pre-assembly with the suction markings into the upper part of the pre-assembly distributor using a Deprag screwdriver until it stops.

Attention: do not use thread sealant!

Check the fully assembled intake manifolds. Connect the intake manifold to the thread and check for leaks.