

MultiTube

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Optimal use of the reactor nozzles

The MultiTube has been developed in order to guarantee the application of a maximum number of process functions, having available only a limited number of nozzles in the cover of the reactor or storage vessel. Our MultiTube system makes it possible to execute several functions with only one single glass-lined baffle as carrier. With a nominal diameter of DN 250, the MultiTube can contain up to three RAS GLASS® glass-lined tubes. Additionally, as a fourth feature a temperature measuring probe can be built in.

Specification:

Length according to DIN 28246 or customer's requirements

Diameter MultiTube	combinations	Maximum of possible combinations		
		dip pipe	TS-probe	TKE-probe or EBU-L-probe
DN 80 - DN 100	comb. 1 comb. 2	1x (DN 25)	1x 1x	1x
DN 125 - DN 150	comb. 1 comb. 2	1x (DN 50)	1x 1x	1x
DN 200	comb. 1 comb. 2 comb. 3	1x (DN 50) 2x (DN 50) 1x (DN 65)	1x 1x 1x	1x
DN 250		2x (DN 50)	1x	1x

Utilisation possibilities of the MultiTube:

1. Continuous glass-lining and vessel monitoring

is achieved with a built-in EBU-L-probe containing electrodes affiliated within the glass-lining of a cap. The cap is introduced into a glass-lined seat of the MultiTube using the shrinking procedure

2. Temperature measurement

happens via a TS-probe or, if a shorter response time is required, via a TKE-probe, whose Pt-100 measuring elements are affiliated within the glass-lining of a cap during the glassing process. The cap is introduced into a glass-lined seat of the MultiTube using the shrinking procedure (See right bottom drawing)

3. Measurement of the pH/rH value

is carried out introducing glass electrodes into a dip pipe DN 50 of the MultiTube (See right top drawing)

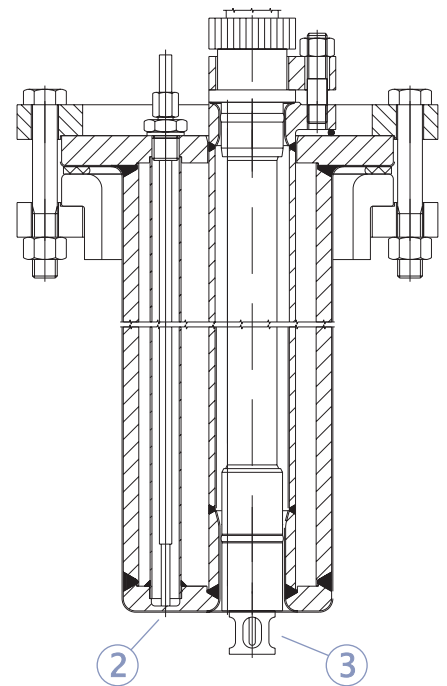
4. Sampling with the aid of the PTE-system

is done by aspirating the liquid through a glass-lined dip pipe DN 50 of the MultiTube

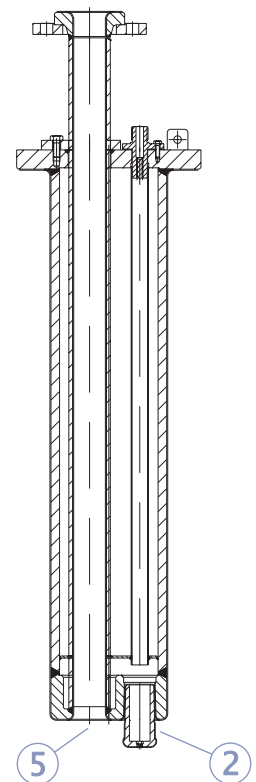
5. Aerating

can be carried out via a glass-lined dip pipe from DN 25 of the MultiTube with aerating injector or via the sampling system. (See right bottom drawing)

MultiTube with pH-probe in the dip pipe (3) and TS-probe (2)



MultiTube with TKE-probe (2) and dip pipe (5)



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