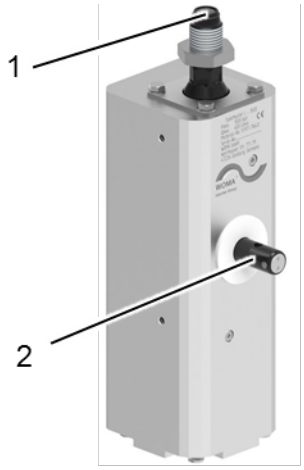
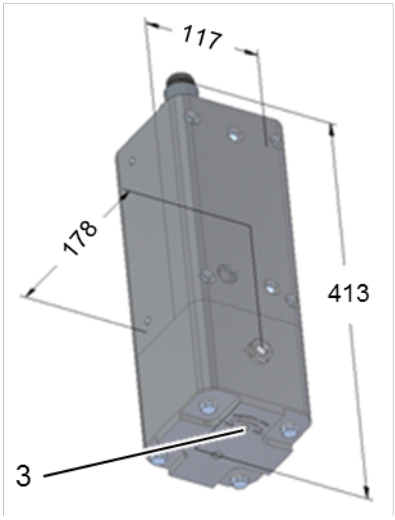
Tank cleaning head
TankMaster L 1500

The internal tank cleaning system TankMaster L 1500 is a high performance water jet tool for internal cleaning of tanks and vessels of any kind, especially for the cleaning of autoclaves in the chemical industry. To perfectly adapt to different sizes of the vessels the TankMaster could be equipped with a wide variety of different rotors and extensions.





1 High pressure connection
2 Rotor connection
3 Speed adjusting screw

Special benefits

- Optimization of cleaning results due to special gear drive design
- Proven sealing system and hardened gears for long service life
- Hermetically sealed
- Easily adjustable eddy current brake for variable rotational speed
- Good reproducibility of the braking position by the realization of ten braking stages
- Housing and pressurized parts made of stainless stee
- Positioning devices, with and without ball joint, are optionally available for variable positioning of the TankMaster inside of the tank

Technical data		
Material no.		9.917-766.0
Operating pressure	max.	1,500 bar
Nominal flow rate	max.	400 l/min
Medium temperature	max.	+95 °C
Weight without rotor	approx.	25 kg
Usable nozzles		Form 4
Number of nozzles		2
Rotor speed		10 to 100 1/min
Height	approx.	413 mm

Smallest required opening diameter			
Rotor	**Without collision protection**	**With collision protection**	**With add-on kit**
H15	Ø 184 mm	Ø 202 mm	Ø 228 mm
H30	Ø 184 mm	Ø 202 mm	Ø 228 mm
H50	Ø 184 mm	Ø 202 mm	Ø 228 mm
H80	Ø 186 mm	Ø 204 mm	Ø 228 mm
H120	Ø 188 mm	Ø 204 mm	Ø 228 mm

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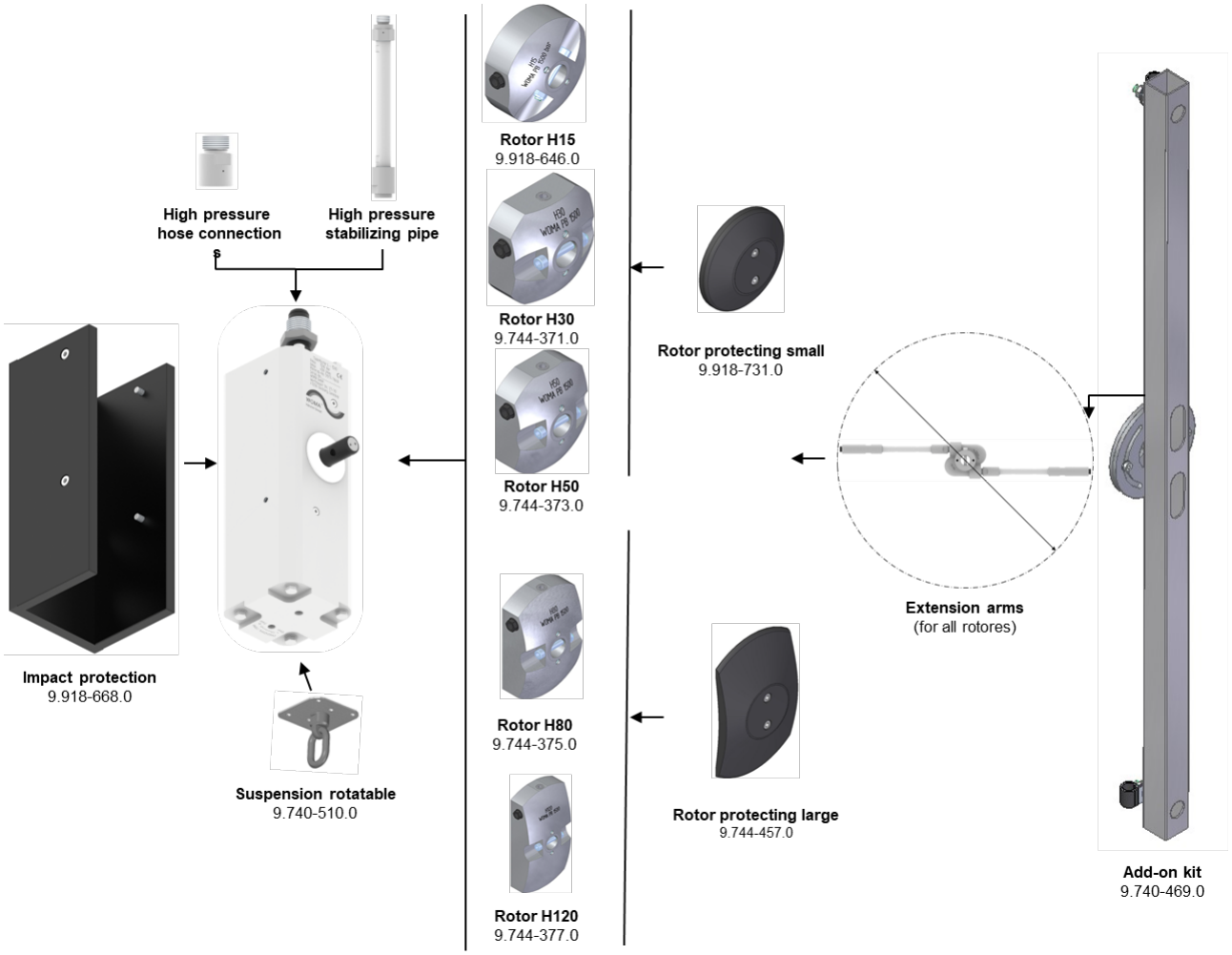
Accessories



High pressure hose connection	
Hose connection	**Material no.**
M24 x 1.5	9.917-832.0
M36 x 2	9.917-833.0
M42 x 2	9.917-834.0

High pressure stabilizing pipe		
Hose connection	**Length [mm]**	**Material no.**
M24 x 1.5	500	9.918-745.0
M24 x 1.5	1,000	9.918-747.0
M36 x 2	500	9.918-746.0
M36 x 2	1,000	9.918-748.0

Extension arms for nozzle form 4	
Rotation diameter max. [mm]*	**Material no.**
250	9.913-011.0
450	9.912-946.0
600	9.912-948.0
1,000	9.912-949.0
1,600**	9.918-699.0
1,800**	9.918-702.0

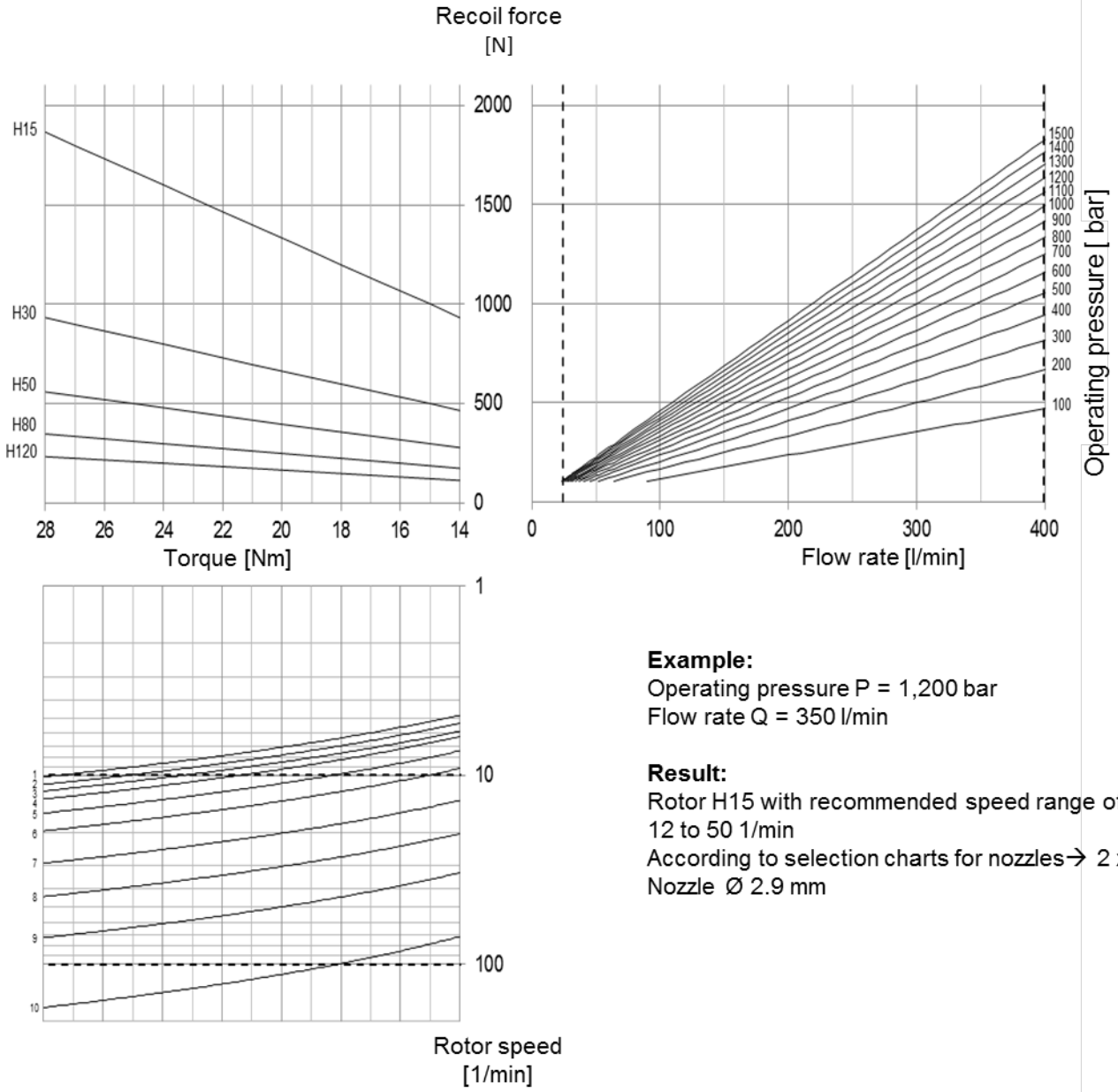
The extension arms are to be ordered twice!

* The exact rotation diameter is dependent on the selected rotor.

** Additionally once add-on kit required.

Others	
Component	**Material no.**
Guide carriage	9.918-668.0
Suspension rotatable	9.740-510.0
Rotor protection small	9.918-731.0
Rotor protection large	9.744-457.0
Add-on kit	9.740-469.0

Selection diagram for rotors – TankMaster L 1500



Example:
Operating pressure P = 1,200 bar
Flow rate Q = 350 l/min

Result:
Rotor H15 with recommended speed range of 12 to 50 1/min
According to selection charts for nozzles→ 2 x Nozzle Ø 2.9 mm

Selection charts for nozzles

The nozzles are to be ordered twice!

Material no. Nozzle	Ø Nozzle [mm]	Rotor H15 Material no. 9.918-646.0														
		Operating pressure [bar]														
		100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500
		Flow rate l/min for two nozzles form 4														
9.885-934.0	2.2														217	225
9.885-964.0	2.3													229	237	246
9.885-935.0	2.4												239	249	258	268
9.885-936.0	2.5											249	260	270	281	290
9.885-965.0	2.7										276	290	303	315	327	339
9.885-937.0	2.8									282	297	312	326	339	352	364
9.886-905.0	2.9									303	319	335	350	364	378	391
9.885-938.0	3.0								305	324	341	358	374	389	404	
9.885-939.0	3.2							325	347	368	388					
9.886-904.0	3.3							346	369	392						
9.885-940.0	3.5						360	389								
9.886-903.0	3.6						381									

Material no. Nozzle	Ø Nozzle [mm]	Rotor H30 Material no. 9.744-371.0														
		Operating pressure [bar]														
		100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500
		Flow rate l/min for two nozzles form 4														
9.885-947.0	1.6														115	119
9.885-946.0	1.7												120	125	130	134
9.885-932.0	1.8											129	135	140	145	150
9.885-952.0	1.9										137	144	150	156	162	168
9.885-933.0	2.0									144	152	159	166	173	180	186
9.885-934.0	2.2								164	174	184	193	201	209		
9.885-964.0	2.3							168	179	190	201	210	220			
9.885-935.0	2.4						169	183	195	207	219	229				
9.885-936.0	2.5						184	198	212	225	237					
9.885-965.0	2,7					196	214	231	247	262						
9.885-937.0	2.8					210	230	249	266							
9.886-905.0	2.9					226	247	267								
9.885-938.0	3.0				216	241	264	286								
9.885-939.0	3.2				246	275	301									
9.886-904.0	3.3				261	292	320									
9.885-940.0	3.5			255	294	329										
9.886-903.0	3.6			269	311	348										
9.885-941.0	4.0			332	384											
9.885-943.0	4.5		344													

Material no. Nozzle	Ø Nozzle [mm]	Rotor H50 Material no. 9.744-373.0														
		Operating pressure [bar]														
		100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500
		Flow rate l/min for two nozzles form 4														
6.025-199.0	1.2															67
6.025-196.0	1.3													73	76	79
9.885-945.0	1.4											78	81	85	88	91
9.885-931.0	1.5										85	90	93	97	101	105
9.885-947.0	1.6									92	97	102	106	111	115	119
9.885-946.0	1.7								98	104	110	115	120	125		
9.885-932.0	1.8							103	110	117	123	129	135			
9.885-952.0	1.9						106	115	122	130	137					
9.885-933.0	2.0						117	127	136	144						
9.885-934.0	2.2					130	142	154	164							
9.885-964.0	2.3				127	142	155	168								
9.885-935.0	2.4				138	155	169									
9.885-936.0	2.5				150	168	184									
9.885-965.0	2.7			151	175	196										
9.885-937.0	2.8			163	188	210										
9.886-905.0	2.9			175	202											
9.885-938.0	3.0			187	216											
9.885-939.0	3.2		174	213												
9.886-904.0	3.3		185	226												
9.885-940.0	3.5		208	255												
9.886-903.0	3.6		220	269												
9.885-941.0	4.0		271													
9.885-943.0	4.5	243														
9.885-942.0	5.0	300														

Material no. Nozzle	Ø Nozzle [mm]	Rotor H80 Material no. 9.744-375.0														
		Operating pressure [bar]														
		100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500
		Flow rate l/min for two nozzles form 4														
6.025-198.0	1.0													43	45	46
9.885-951.0	1.1											48	50	52	54	56
6.025-199.0	1.2									52	55	57	60	62	65	67
6.025-196.0	1.3								57	61	64	67	70	73	76	
9.885-945.0	1.4							62	66	71	74	78	81			
9.885-931.0	1.5						66	71	76	81	85	90				
9.885-947.0	1.6						75	81	87	92						
9.885-946.0	1.7					78	85	92	98							
9.885-932.0	1.8				78	87	95	103								
9.885-952.0	1.9				87	97	106									
9.885-933.0	2.0				96	107	117									
9.885-934.0	2.2			101	116	130										
9.885-964.0	2.3			110	127											
9.885-935.0	2.4			120	138											
9.885-936.0	2.5			130												
9.885-965.0	2.7		124	151												
9.885-937.0	2.8		133	163												
9.886-905.0	2.9		143													
9.885-938.0	3.0		153													
9.885-939.0	3.2		174													
9.886-904.0	3.3		185													
9.885-940.0	3.5		208													
9.886-903.0	3.6	156														
9.885-941.0	4.0	192														
9.885-943.0	4.5	243														

Material no. Nozzle	Ø Nozzle [mm]	Rotor H120 Material no. 9.744-377.0 Operating pressure [bar]													
		100	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500
		Flow rate l/min for two nozzles form 4														
6.025-200.0	0.8														29	30
9.886-902.0	0.85												30	31	32	34
6.025-470.0	0.9											33	34	35	36	38
6.025-198.0	1.0									36	38	40	42	43	45	46
9.885-951.0	1.1								41	44	46	48	50	52		
6.025-199.0	1.2						42	46	49	52	55	57				
6.025-196.0	1.3						50	54	57	61						
9.885-945.0	1.4					53	58	62	66							
9.885-931.0	1.5				54	60	66	71								
9.885-947.0	1.6				62	69	75									
9.885-946.0	1.7			60	69	78										
9.885-932.0	1.8			67	78	87										
9.885-952.0	1.9			75	87											
9.885-933.0	2.0			83	96											
9.885-934.0	2.2		82	101												
9.885-964.0	2.3		90	110												
9.885-935.0	2.4		98													
9.885-936.0	2.5		106													
9.885-965.0	2.7		124													
9.885-937.0	2.8		133													
9.886-905.0	2.9	101														
9.885-938.0	3.0	108														
9.885-939.0	3.2	123														
9.886-904.0	3.3	131														
9.885-940.0	3.5	147														
9.886-903.0	3.6	156														