

Technische Daten

Pumpenname MATRIX 3-6T/0.9

Besteller	Datum 13-October-2016	Firma
Ansprechpartner	Art.-Nr. 1.1	Issued by
Telefon	Projekt	Telefon
E-Mail	Projektname EBARA Pump Selector-2069524	E-Mail

Requested data

1	Pumpenbezeichnung	HORIZONTAL MULTISTAGE PUMPS	Fluid	Wasser, rein
2	Pumpenanzahl / Reserve	1 / 0	Mediumtemperatur °C	20
3	Förderstrom m³/h	0	Kinematische Viskosität mm²/s	1
4	Förderhöhe m	0	Dampfdruck kPa	2,2
5	Geodätische Höhe m	0	PH Wert	7
6	Vordruck kPa	10	Dichte kg/m³	1000
7	Available system NPSH	0	Feststoffe Weight %	0
8	Umgebungstemperatur °C	20	Aufstellungshöhe über NN m	1000

Pumpe

9	Pumpenname	MATRIX 3-6T/0.9	Frequenz Hz	50
10	Bauart	HORIZONTAL MULTISTAGE PUMPS	Installationsart	STANDARD
11	Hersteller	EPE	Lauf- Durchmesser	Max. mm 99
12	Drehzahl rpm	2850		Designed mm 99
13	No. of Stage	6		Min. mm 99
14	Anschluß Saugseite	UNI ISO 228	Förderstrom	Operating m³/h
15	Anschluß Druckseite	UNI ISO 228		Max- m³/h 4,8
16	Max Working Pressure kPa	1000		Min- m³/h 1,2
17	Shut-off head kPa	663,85	Förderhöhe	Operating m
18	Gesamtgewicht kg	See the table of "Dimensions".		- (Qmax.) m 24,0
19	Wellenleistung kW			- (Qmin.) m 62,7
20			Max. Shaft Power at max. impeller kW 0,88	
21	NPSH - Wert m		Efficiency %	

Materials

22	Impeller	AISI 304		
23	Casing	AISI 304		
24	Shaft	AISI 304		
25				
26				
27				

Motor

28	Hersteller	EPE Standard	Isolierklasse	F
29	Typ	TEFC_MATRIX 3-6T/0.9_400_Three Phase	Phasen	3~
30	Ausführung	IE3 / 50 Hz / Polpaarzahl 1	Baugröße	
31	Leistung kW	0,9	Gewicht kg	0
32	Polzahl	2	El. Spannung V	400
33	Drehzahl rpm	2850	El. Stromstärke A	2,5
34	Schutzart	IP 55		
35				

Remarks

Kennlinie

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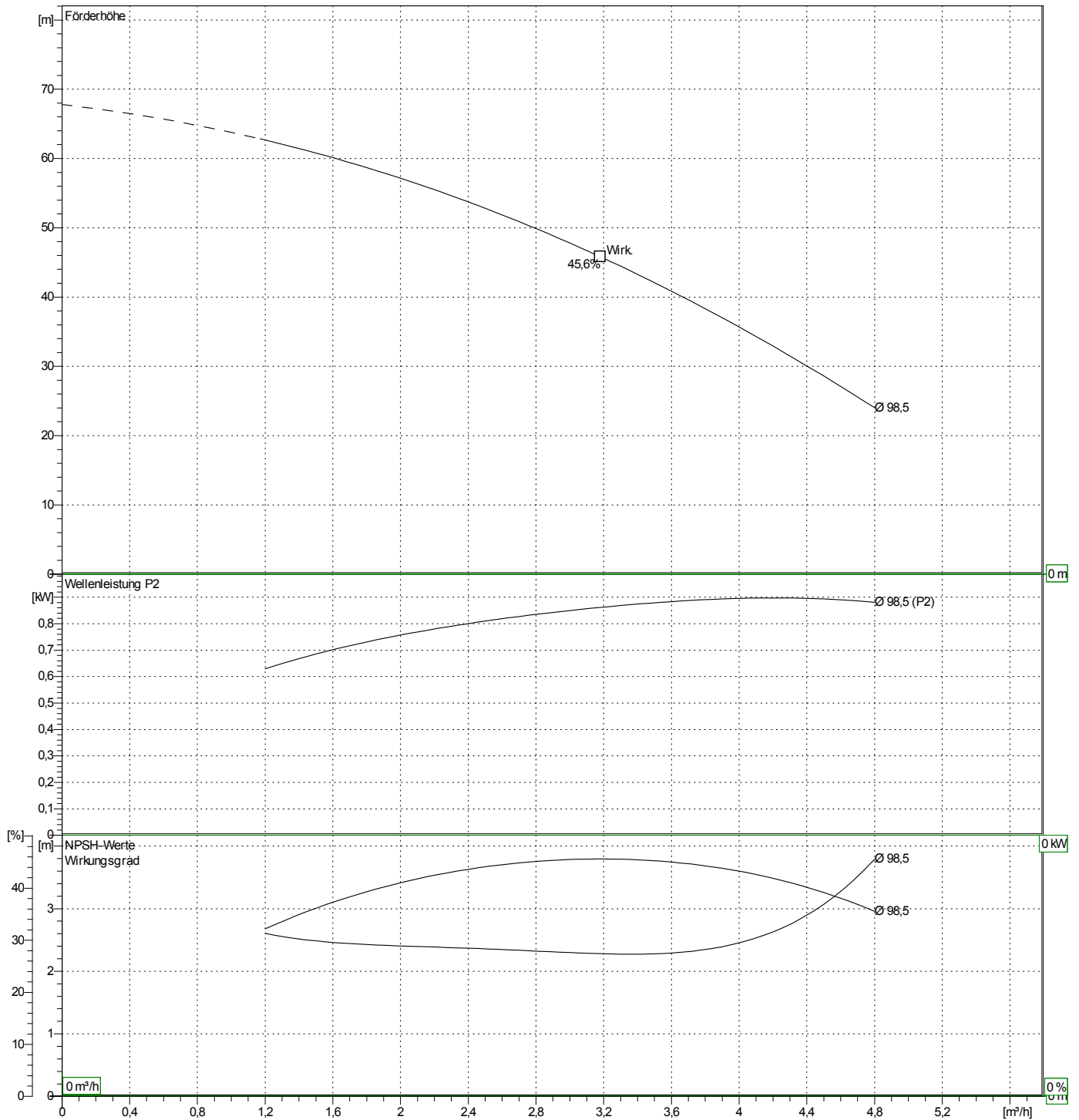
1	Förderstrom	m³/h	0
2	Förderhöhe	m	0
3	Geodätische Höhe	m	0

Pumpe

Operating Flow	m³/h	Laufgrad Durchmesser	Designed mm	99
Operating Head	m	Frequenz	Hz	50
		Drehzahl	rpm	

Test standard: ISO 9906:2012 - Grade3B

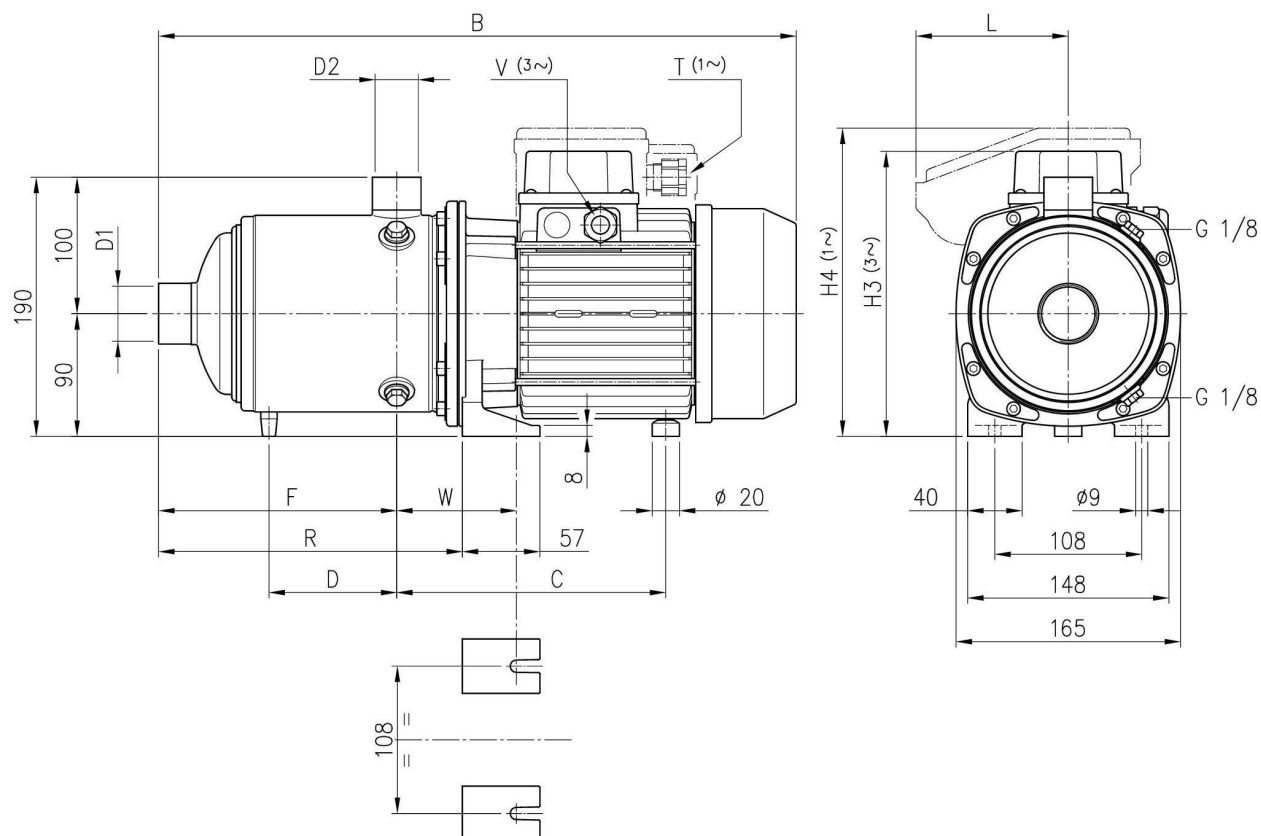
Wasser, rein [100%]; 20°C; 998,3kg/m³; 1mm²/s



Abmessungen

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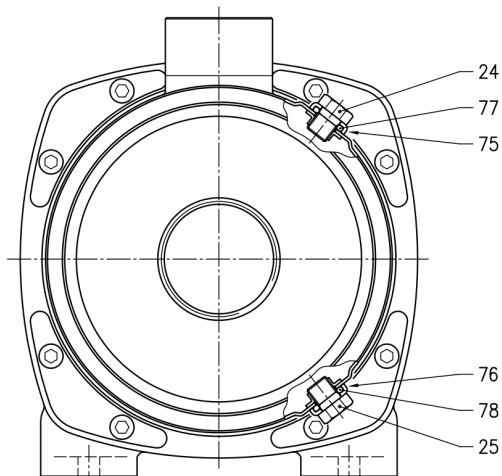
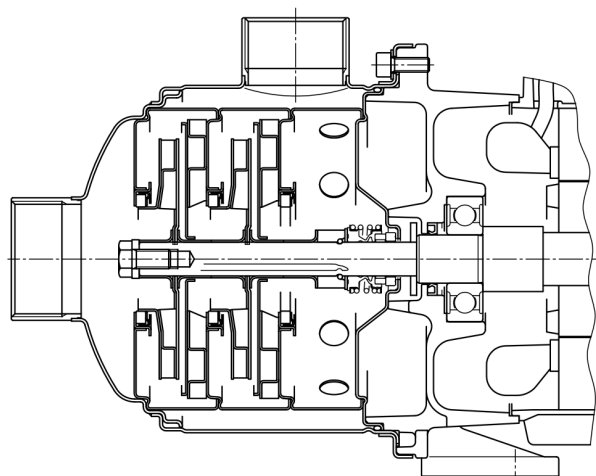
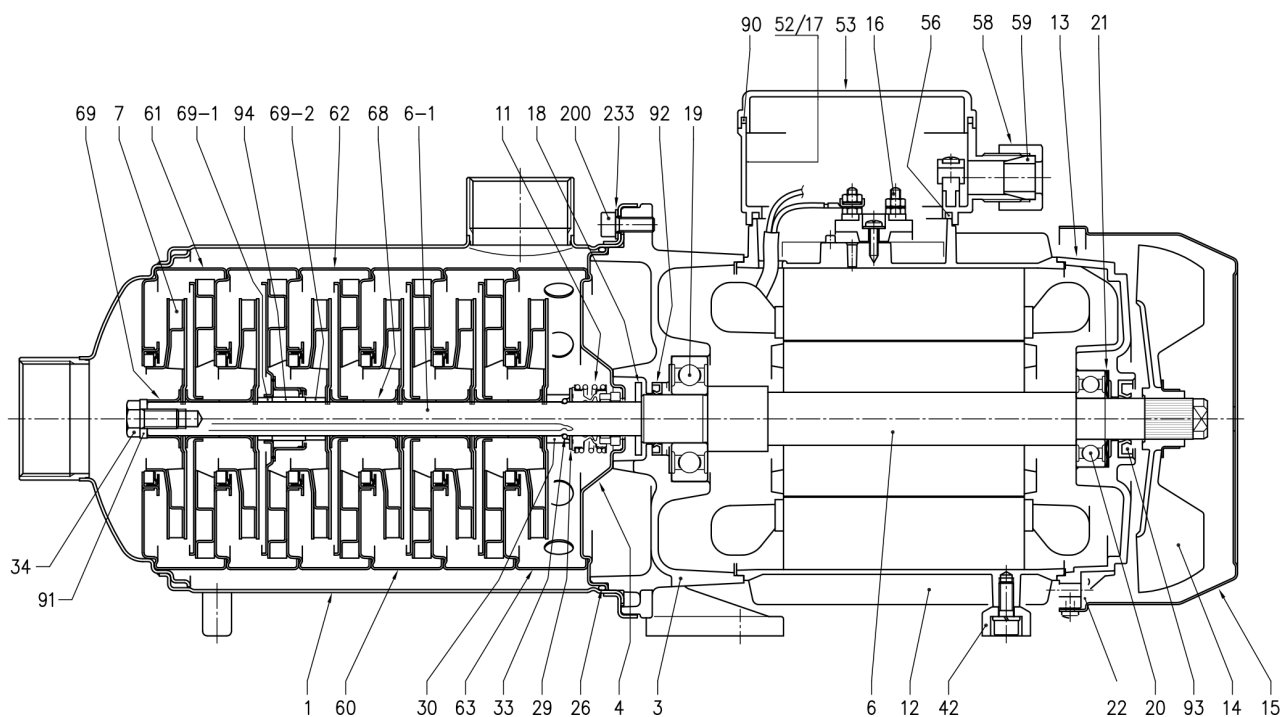


Abmessungen in mm		
1	B	444
2	C	171
3	Dia D1	1"
4	Dia D2	1"
5	F	175
6	H3	192
7	R	223,5
8	V	M16X1.5
9	W	88 + 97
10	Weight P&M	13.6 kg

(1/4) Konstruktion

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VERSION FOR PUMP TYPE: MATRIX 3-2T/0.45(M)
MATRIX 5-2T/0.45(M)
MATRIX 10-2T/0.75(M)

(2/4) Konstruktion

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N°	PART NAME	MATERIAL	DIMENSION	STANDARD	Q.TY
001	Casing	EN 1.4301 (AISI 304)			1
003	Bracket	EN AB-AISI11Cu2(Fe)			1
004	Casing cover	EN 1.4301 (AISI 304)			1
006	Shaft with rotor	-			1
006-1	Pump Shaft	EN 1.4301 (AISI 304)			1
007	Impeller	EN 1.4301 (AISI 304)			[1]
011	Standard mechanical seal [3]	Ceramic/Carbon/EPDM			1
	High temperature mechanical seal [3]	Ceramic/Carbon/EPDM			
012	Motor frame with stator	-			1
013	Motor cover	Aluminium			1
014	Fan	PA			1
015	Fan cover	Fe P04 Zincate			1
016	Terminal board	-			1
017	Terminal box cover	Aluminium			[1]
018	Splash ring	NBR	30x13.5x2.5		1
019	Bearing	-			1
020	Bearing	-			1
021	Adjusting ring	Steel C70			1
022	Tie rod	Fe 42 Zinc-coated			4
024	Plug	EN 1.4301 (AISI 304)			1
025	Plug	EN 1.4301 (AISI 304)			1
026	O-ring	EPDM			1
029	Washer	EN 1.4301 (AISI 304)	25.1x14x1		1
030	Ring holder	EN 1.4301 (AISI 304)			1
033	Ring	EN 1.4301 (AISI 304)			2
034	Screw	EN 1.4301 (AISI 304)	M 8x16	UNI 5739	1
042	Foot	Aluminium			[1]
052	Capacitor box [2]	ABS class V-0			1
053	Capacitor box cover [2]	ABS class V-0			1
056	Box gasket	NBR			1
058	Ring nut	-			[1]
059	Conic gasket	NBR			[1]
060	Intermediate casing	EN 1.4301 (AISI 304)+PPS			[1]
061	Intermediate casing (suction)	EN 1.4301 (AISI 304)+PPS			1
062	Intermediate casing (bearing)	EN 1.4301 (AISI 304)+PPS + Ceramic			[1]
063	Intermediate casing (discharge)	EN 1.4301 (AISI 304)+PPS			1
068	Shaft sleeve (intermediate)	EN 1.4301 (AISI 304)			[1]
069	Impeller spacer	EN 1.4301 (AISI 304)			1
069-1	Shaft sleeve (adjustment) [1]	EN 1.4301 (AISI 304)			[1]
069-2	Shaft sleeve (adjustment) [1]	EN 1.4301 (AISI 304)			[1]
075	Washer (plug)	EN 1.4301 (AISI 304)			1
076	Washer (plug)	EN 1.4301 (AISI 304)			1
077	O-ring	EPDM	9.19x2.62		1
078	O-ring	EPDM	9.19x2.62		1
090	Terminal box cover gasket [2]	NBR	-		[1]
091	Shaft washer	EN 1.4301 (AISI 304)			1
092	Lip seal	0.45-0.65-0.75-0.9 kW	-	17x32x6	1
		1.3-1.5-2.2 kW		20x30x4	1
		2.2M-3-4 kW		25x40x7	1
093	Lip seal	0.45-0.65-0.75-0.9 kW	-	15x30x5	1
		1.3-1.5-2.2 kW		17x32x7	1
		2.2M-3-4 kW		25x40x7	1
094	Shaft sleeve (bearing)	WC - Tungsten carbide			[1]
200	Screw	EN 1.4301 (AISI 304)	M6x16	UNI 5931	8
233	Plate	EN 1.4301 (AISI 304)			4

[1] See **COSTRUCTION 3**

[2] Only for single phase

[3] See **COSTRUCTION 4**

(3/4) Konstruktion

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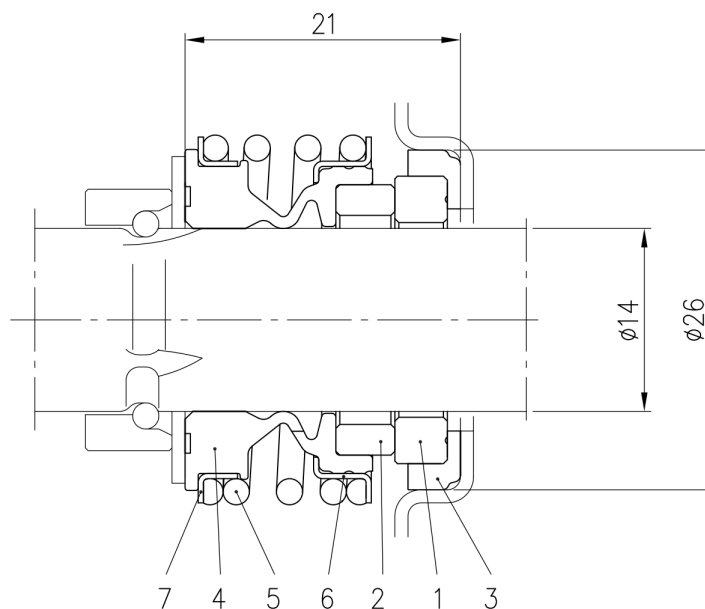
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Pump type	7	17	30-1	30-2	42	58	59	60	62	68	69-1	69-2	90	94
MATRIX 3-2T/0,45M	2	-	-	-	1	1	1	1	-	4	-	-	1	-
MATRIX 3-2T/0,45		1	-	-	1	-	-	1	-	4	-	-	-	-
MATRIX 3-3T/0,65M	3	-	-	-	1	1	1	1	-	4	-	-	1	-
MATRIX 3-3T/0,65		1	-	-	1	-	-	1	-	4	-	-	-	-
MATRIX 3-4T/0,65M	4	-	-	-	1	1	1	2	-	6	-	-	1	-
MATRIX 3-4T/0,65		1	-	-	1	-	-	2	-	6	-	-	-	-
MATRIX 3-5T/0,75M	5	-	-	-	1	1	1	3	-	8	-	-	1	-
MATRIX 3-5T/0,75		1	-	-	1	-	-	3	-	8	-	-	-	-
MATRIX 3-6T/0,9M	6	-	-	-	1	1	1	4	-	10	-	-	1	-
MATRIX 3-6T/0,9		1	-	-	1	-	-	4	-	10	-	-	-	-
MATRIX 3-7T/1,3M	7	-	-	-	1	1	1	4	1	10	1	1	1	1
MATRIX 3-7T/1,3		1	-	-	1	-	-	4	1	10	1	1	-	1
MATRIX 3-8T/1,3M	8	-	-	-	1	1	1	5	1	12	1	1	1	1
MATRIX 3-8T/1,3		1	-	-	1	-	-	5	1	12	1	1	-	1
MATRIX 3-9T/1,5M	9	-	-	-	1	1	1	6	1	14	1	1	1	1
MATRIX 3-9T/1,5		1	-	-	1	-	-	6	1	14	1	1	-	1
MATRIX 5-2T/0,45M	2	-	-	-	1	1	1	1	-	4	-	-	1	-
MATRIX 5-2T/0,45		1	-	-	1	-	-	1	-	4	-	-	-	-
MATRIX 5-3T/0,65M	3	-	-	-	1	1	1	1	-	4	-	-	1	-
MATRIX 5-3T/0,65		1	-	-	1	-	-	1	-	4	-	-	-	-
MATRIX 5-4T/0,9M	4	-	-	-	1	1	1	2	-	6	-	-	1	-
MATRIX 5-4T/0,9		1	-	-	1	-	-	2	-	6	-	-	-	-
MATRIX 5-5T/1,3M	5	-	-	-	1	1	1	3	-	8	-	-	1	-
MATRIX 5-5T/1,3		1	-	-	1	-	-	3	-	8	-	-	-	-
MATRIX 5-6T/1,3M	6	-	-	-	1	1	1	4	-	10	-	-	1	-
MATRIX 5-6T/1,3		1	-	-	1	-	-	4	-	10	-	-	-	-
MATRIX 5-7T/1,5M	7	-	-	-	1	1	1	4	1	10	1	1	1	1
MATRIX 5-7T/1,5		1	-	-	1	-	-	4	1	10	1	1	-	1
MATRIX 5-8T/2,2M	8	-	-	-	-	1	1	5	1	12	1	1	1	1
MATRIX 5-8T/2,2		1	-	-	1	-	-	5	1	12	1	1	-	1
MATRIX 5-9T/2,2M	9	-	-	-	-	1	1	6	1	14	1	1	1	1
MATRIX 5-9T/2,2		1	-	-	1	-	-	6	1	14	1	1	-	1
MATRIX 10-2T/0,75M	2	-	-	-	1	1	1	1	-	4	-	-	1	-
MATRIX 10-2T/0,75		1	-	-	1	-	-	1	-	4	-	-	-	-
MATRIX 10-3T/1,3M	3	-	-	-	1	1	1	1	-	4	-	-	1	-
MATRIX 10-3T/1,3		1	-	-	1	-	-	1	-	4	-	-	-	-
MATRIX 10-4T/1,5M	4	-	-	-	1	1	1	2	-	6	-	-	1	-
MATRIX 10-4T/1,5		1	-	-	1	-	-	2	-	6	-	-	-	-
MATRIX 10-5T/2,2M	5	-	-	-	-	1	1	3	-	8	-	-	1	-
MATRIX 10-5T/2,2		1	-	-	1	-	-	3	-	8	-	-	-	-
MATRIX 10-6T/2,2M	6	-	-	-	-	1	1	3	1	8	1	1	1	1
MATRIX 10-6T/2,2		1	-	-	1	-	-	3	1	8	1	1	-	1

(4/4) Konstruktion

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Version	Material						
	1 Stationary seal ring	2 Rotary seal ring	3 Gasket	4 Bellows	5 Spring	6 Frame	7 Retainer ring
Standard	Ceramic	Carbon	EPDM	EPDM	EN 1.4402 (AISI 316)	EN 1.4402 (AISI 316)	EN 1.4402 (AISI 316)