Selection and (	Ordering data										Order No.	Or	der cod
Rotary piston r	meter DN 50 (2")												
Nom. press.	<b>Materials</b> Housing	Meas. chamber	Ro	tary	pis	ton			Casing gasket	Weight appr. kg (lb)			
PN 6 (87 psi)	Cast iron	Cast iron		•	•	•	•	•	Flat gasket AFM 34	31 (68.3)	7MR1410- E		
PN 16 (232 psi)	CrNiMo steel	CrNiMo steel	•	•	•	•		•			7MR1410- S		
PN 25 (363 psi)	Spher. cast iron	Cast iron		•	•	•	•	•		45 (99.2)	7MR1420- E		
PN 40 (580 psi)	Cast steel	Cast iron		•	•	•	•	•	FKM (O-ring)	60 (132)	7MR1430- E		
PN 63 (914 psi)	Cast steel	Cast iron		•	•	•	•	•	Flat gasket AFM 34	94 (207)	7MR1440- E		
,			$\downarrow$	$\downarrow$	1	$\downarrow$	1	1	,				
Rotary piston r	material								Max. permissible liquid temperature	Weight appr. kg (lb)			
Carbon								•		0.9 (2.0)		к	
Cast iron							•			3.5 (7.7)		E	
Cast iron, groov	red						•			3.4 (7.5)		В	
Ni-resist						•				3.5 (7.7)		N	
Ni-resist, groove	ed					•				3.4 (7.5)		С	
Hard rubber					•				40 °C (104 °F)	0.7 (1.5)		G	
Hard rubber, gro					•				40 °C (104 °F)			D	
PTFE with graph PTFE with graph	•			•					40 °C (104 °F)	0.5 (1.1)		F	
grooved	iite iiiirig,			•					40 °C (104 °F)			-	
PTFE with graph				•					90 °C (194 °F)			R	
PTFE with graph grooved	nite filling,			•					90 °C (194 °F)			М	
Flow direction											_		
Mechanism sha	ft vertical	From left to right									1		
		From right to left									2		
		From front to bac									3		
		From back to fro									4		
Mechanism sha	tt horizontal	From left to right From right to left									5 6		
		Upwards									7		
		Downwards									0		
Mechanical reg	jisters/quantity p	oreset registers <sup>1)</sup>	)							Weight appr.			
Single- pointer o	dial									kg (lb)			
• Type 01										0.8 (1.76)		0 1	
Double-pointer (	dial (note mountir	ng position! see d	esc	ript	ion	on	рас	ge 4	4/459)	1.5 (3.3)		11	
Type 11, vertic	9												
Type 12, horize	9									2.5 (5.5)		1 2	
Quantity preset		ft flow direction a	cco	rdir	na ta	) CC	nde	c 1	4				
(only for vertical mechanism shaft, flow direction according to codes 1 4  • Type 30  11 (24.3)										3 0			
• Type 30, ex-pr	rotected switch									13.2 (29.1)		5 4	
Value per revol											_		
• 10 I (2.65 USg	''											2	
100 I (26.5 US	07										_	3	
	ulsers, cooling a	attachments)'											
None												A B	
Mounted     Pulser already mounted above the intermediate gear:										<b>B</b>			
Pulser already mounted <u>above</u> the intermediate gear:										С			
<ul><li>10 pulses/value per revolution</li><li>100 pulses/value per revolution</li></ul>										D			
Pulser already mounted <u>below</u> the intermediate gear:													
<ul><li>10 pulses/measuring chamber volume</li><li>100 pulses/measuring chamber volume</li></ul>									G H				
For measuring	g temperatures ove	er 80 °C, it is alway	s ne	ces	sar	y to	ord	er i	one cooling attachmen r two cooling attachme	t (7MV3001-1XX00	)). (00) as separate item	19	

For measuring temperatures over 80 °C, it is always necessary to order one cooling attachment (7MV3001-1XX00). For measuring temperatures over 180 °C, it is always necessary to order two cooling attachments (7MV3001-2XX00) as separate items.

Selection and Ordering data (continued)	Order No.	Orde	r code
Rotary piston meter DN 50 (2")	7MR14=0-		
Digital register with current/pulse output			
As separate model: Pulser mounted on the rotary-piston meter and locked with protective cover; SITRANS F RA110 (order separately, for product description, see page 4/461)			
10 pulses/revolution  • max. material temperature 80 °C (176 °F), without cooling attachment  • max. material temperature 180 °C (356 °F), one cooling attachment  • max. material temperature 260 °C (500 °F), two cooling attachments		1 0B 3 0B 5 0B	
100 pulses/revolution  • max. material temperature 80 °C (176 °F), without cooling attachment  • max. material temperature 180 °C (356 °F), one cooling attachment  • max. material temperature 260 °C (500 °F), two cooling attachments	4 6 4 7 4 8		
Compact version: Pulser (page 4/464) mounted on the rotary-piston meter and locked with mounting bracket; SITRANS F RA110 (order separately, see product description on page 4/461) mounted on mounting bracket.			
10 pulses/revolution  • max. material temperature 80 °C (176 °F), without cooling attachment  • max. material temperature 180 °C (356 °F), one cooling attachment  • max. material temperature 260 °C (500 °F), two cooling attachments	6 1 6 3 6 8		
100 pulses/revolution  • max. material temperature 80 °C (176 °F), without cooling attachment  • max. material temperature 180 °C (356 °F), one cooling attachment  • max. material temperature 260 °C (500 °F), two cooling attachments	6 6 6 7 6 8	7 0 B	
Tests  Works test  Works test certificate  Preliminary official test (only for vertical mechanism shaft and mech. register and quantity preset register)  Preliminary official test (only for vertical mechanism shaft and mech. register or quantity preset register and pulser (double pick-up) for current/pulse output); (not currently available in connection with SITRANS F RA110)		A B D <sup>1)</sup> E <sup>1)</sup>	
Flanges Plane, drilled to EN 1092-1 Plane, drilled to specification With sealing ridge to specification		0 9 9	R 1 Y R 2 Y

## Heating systems on request

<sup>1)</sup> Not with PTFE and PCTFE pistons.

Accessories		Order No.
Instruction Manual		
7MR1410		
<ul> <li>German</li> </ul>	F)	C73000-B5100-C15
• English	F)	C73000-B5176-C15
7MR1420 and 7MR1440		
<ul> <li>German</li> </ul>	F)	C73000-B5100-C23
• English	F)	C73000-B5176-C23
7MR1430		
<ul> <li>German</li> </ul>	F)	C73000-B5100-C30
<ul> <li>English</li> </ul>	F)	C73000-B5176-C30

F) Subject to export regulations AL: 91999, ECCN: N.

## Informations relevant for ordering

The informations relevant for ordering can be found in section "Introduction" at the beginning of the chapter:

Application: see page 4/422

Function and design: see page 4/423

Configuration: see page 4/425 ff.

Operating limits: Permissible liquid temperatures and further technical specifications see page 4/429 ff.

Dimensional drawings: see page 4/444 (dimensions of flanges) and pages 4/445 ff.

Mounting position: as desired; note mounting position of register!

## Certificates and approvals

Classification according to pressure equipment directive (DGRL 97/23/EG):

- 7MR1410 and 7MR1420: for liquids of group 1; complies with requirements of article 3, paragraph 3 (sound engeneering practice SEP)
- 7MR1430 and 7MR1440: for liquids of group 2; complies with requirements of article 3, paragraph 3 (sound engeneering practice SEP); For liquids of fluid group 1 on request.

Ordering example see page 4/431