

Diaphragm Separator Series 1030

Application	Mounting to Bourdon tube pressure gauges or to pressure transmitters for indirect pressure measurement of perishable, aggressive, highly viscous or crystallizing media, or media containing solid particles, which should not enter the measuring element. On the one hand to safeguard the measuring element, on the other hand to protect the media which are liable to decompose, because media lodging in the Bourdon tube will not be exchanged.
Execution	The separator is inseparably fixed with the pressure measuring instrument to hydraulic measuring unit; either directly, via a cooling element or via a capillary tube of stainless steel.
Type of construction	Diaphragm separator. Separation element concentrically corrugated and welded to the body. For direct mounting to the measuring point or by means of a transition flange (see next page).
Connection	Flange
Temperature of medium	Up to 80°C (1/2 h up to 140°C). Other temperature limits (up to 300°C) on request.
Hydraulic transmission fluid	Silicon oil (standard), others on request.



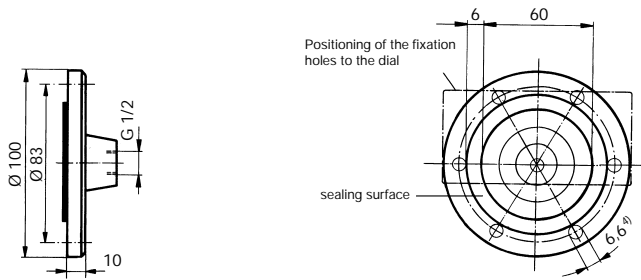
Selection chart

Type	Material of separator body (not in contact with the medium)	Material of separation element	Ordering code direct mounting	Ordering code with capillary tube					
Diaphragm separator	steel	stainless steel 1.4571	1031	1032					
	stainless steel 1.4301	stainless steel 1.4571	1033	1034					
	stainless steel 1.4301	Monel	1035	1036					
	stainless steel 1.4301	Tantalum	1037	1038					
	stainless steel 1.4301	Titanium	1039	1040					
	stainless steel 1.4301	Hastelloy C 276	1041	1042					
	stainless steel 1.4301	stainless steel 1.4571 Teflon PFA coated	1045	1046					
Capillary tube 1.4571	Length [m]	0.5	1	1.5	2	2.5	3	3.5	4.0
	Ordering code	1205	1210	1215	1220	1225	1230	1235	1240
Additional metallic protection hose for capillary tube									1299
Temperature of medium (e.g. 100°C)									9007/0100
Ordering example: DRC 100/611.133/125 / 1034 / 1210 / 1299 / 9007/0100 ↑ ↑ ↑ ↑ ↑ Temperature of medium 100°C Metallic protection hose Capillary tube 1 m Separator ordering code Pressure gauge (see data-sheet D1.137)									
Extra protection	separate PTFE-Seal 1050								
Transition flanges	see data-sheet D 1.207.2								
Accessories	Sealing ring J 65086.0001	Material: Novapress 300			Dimensions: Ø 76 x Ø 64 x 0.5				
	Sealing ring J 65086.0003	Material: PTFE			Dimensions: Ø 76 x Ø 64 x 0.5				

Other transition flanges available on request (e.g. acc. to ANSI 16.5)

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Dimensions



Pressure ranges (directive values)¹⁾

Mounting to pressure gauge or pressure transmitter	NS 63	NS 80	NS 100	NS 160	NS 96	ED 518
Pressure ranges [bar]	1...40 ²⁾	1...40 ¹⁾	1...40 ¹⁾	1.6...40 ¹⁾	1...40 ³⁾	0.2...40 ¹⁾

¹⁾ Higher ranges on request.

²⁾ Only possible with transition piece G 1/4 inside/G 1/2 outside.

³⁾ Only for models with capillary tube.

⁴⁾ Ø9 for M8 possible on request.

Diaphragm Separator Series 1030 Transition Flanges

Flanges with threaded connection

Dimension Drawings	Execution	DN	PN	D	d	s	h ₂	l	S	Thread G	Material	Ordering code
	Standard	—	up to 25	100	3.5	—	45	—	27	G 1/2	Steel	0299
											Stainl. steel 1.4571	0300
	with/without lining	—	up to 25	100	ca. 6	—	47	—	27	G 1/2	1.4571 / PTFE	0302
					10		45				Steel	0307
											1.4571	0308
	with rinsing connection	—	up to 25	100	3.5	—	45	—	27	G 1/2	Stainl. steel 1.4571	0305
				10	—	45	—	27	G 1/2	Stainl. steel 1.4571	0319	
	Standard connection A DIN 11 887	25	25	100	—	10	30	14	—	Rd 52 x 1/6	Flange and threaded connection of stainless steel 1.4301	0311
		32								Rd 58 x 1/6		0312
		40								Rd 65 x 1/6		0313
	with rinsing connection conn. A, DIN 11 887	25	25	100	—	10	30	14	—	Rd 52 x 1/6	0314	
	Standard connection B DIN 11 887	25	10	100	—	10	31	—	—	Rd 52 x 1/6	Flange with bevelled connection and union nut of stainless steel 1.4301	0321
		32								Rd 58 x 1/6		0322
		40								Rd 65 x 1/6		0323

Compact flange with sealing strip, connection dimensions for DIN 2501, female thread

Dimension Drawings	Execution	DN	PN	D	h ₂	g	f	k	d ₁	no.	d ₂	Material	Ordering code
	Standard	15	10 up to 40	100	30	45	2	65	M 12 11 depth	4	16	1.4571	0342
		25	10 up to 40	115	25	68	2	85	M 12 11 depth	4	25	Steel	0343
												1.4571	0344
		40	10 up to 40	150	31	88	3	110	M 16 14 depth	4	40	Steel	0351
												1.4571	0352
	with PTFE lining	15	10 up to 40	100	30	45	1	65	M 12 11 depth	4	16	1.4571/PTFE	0356
25		10 up to 40	115	25	68	1	85	M 12 11 depth	4	25	1.4571/PTFE	0358	

Flat flange with sealing strip, connection dimensions as for DIN 2501, through holes

Dimension Drawings	Execution	DN	PN	D	h ₂	g	f	k	d ₁	no.	d ₂	Material	Ordering code		
	Standard	50	10 up to 40	165	20	102	3	125	18	4	62	Steel	0371		
														1.4571	0372
		65				185	22	122	3	145	18	8	62	Steel	0373
	with PTFE lining	50	10 up to 40	165	22	102	4	125	18	4	62	1.4571/PTFE	0378		
		65		185	24	122	4	145	18	8	62	1.4571/PTFE	0380		

Other transition flanges available on request (e.g. acc. to ANSI 16.5).

