

In-Line Seals - Type 763.. - Inline-Versions for Hygienic Process Conditions



EXAMPLE OF OPERATION:
Type 7635

- DIAPHRAGM TUBE OF STAINLESS STEEL 1.4435 (316L)
- FOR FOOD AND BEVERAGE INDUSTRY, BIOTECHNOLOGY, PHARMACY
- MEASURING OF HIGHLY VISCOUS MEDIA
- MOUNTING TO MANOMETER, PRESSURE SWITCHES AND PRESSURE TRANSMITTER
- DEAD-ZONE FREE MEASURING; RESIDUES-FREE CLEANING OF MEASURING POINT, CIP- AND SIP-COMPATIBLE

TECHNICAL DATA



General information																																														
Process connection	<p>Connection for flat or form sealing:</p> <table border="1"> <thead> <tr> <th></th> <th>Norm</th> <th>Nom. size</th> <th>Model</th> </tr> </thead> <tbody> <tr> <td rowspan="5">Male thread:</td> <td>DIN 11 851</td> <td>DN 20...100</td> <td>RDM 7631</td> </tr> <tr> <td>APV-ISS</td> <td>DN 1"...2"</td> <td>RDM 7632</td> </tr> <tr> <td>APV-RJT</td> <td>DN 1"...2"</td> <td>RDM 7633</td> </tr> <tr> <td>IDF</td> <td>DN 1"...2"</td> <td>RDM 7634</td> </tr> <tr> <td>SMS</td> <td>DN 1"...2"</td> <td>RDM 7637</td> </tr> <tr> <td rowspan="2">Clamp:</td> <td>DIN 32 676</td> <td>DN 10...100</td> <td>RDM 7635</td> </tr> <tr> <td>ISO 2852</td> <td>DN ½ " ...4</td> <td>RDM 7636</td> </tr> </tbody> </table> <p>Aseptic connections for o-ring sealing for DIN 11850-tubes:</p> <table border="1"> <tbody> <tr> <td>Male thread</td> <td>DIN 11864-1 Form A</td> <td>DN 20...100</td> <td>RDM 7631.1</td> </tr> <tr> <td rowspan="2">Flange</td> <td>DIN 11864-2 Form A</td> <td>DN 20...100</td> <td>RDM 7639</td> </tr> <tr> <td>Neumo/BioConnect®</td> <td>DN 20...100</td> <td>RDM 7639.4</td> </tr> <tr> <td rowspan="2">Clamp</td> <td>DIN 11864-3 Form A</td> <td>DN 20...100</td> <td>RDM 7635.1</td> </tr> <tr> <td>Neumo/BioConnect®</td> <td>DN 20...100</td> <td>RDM 7635.4</td> </tr> </tbody> </table>		Norm	Nom. size	Model	Male thread:	DIN 11 851	DN 20...100	RDM 7631	APV-ISS	DN 1"...2"	RDM 7632	APV-RJT	DN 1"...2"	RDM 7633	IDF	DN 1"...2"	RDM 7634	SMS	DN 1"...2"	RDM 7637	Clamp:	DIN 32 676	DN 10...100	RDM 7635	ISO 2852	DN ½ " ...4	RDM 7636	Male thread	DIN 11864-1 Form A	DN 20...100	RDM 7631.1	Flange	DIN 11864-2 Form A	DN 20...100	RDM 7639	Neumo/BioConnect®	DN 20...100	RDM 7639.4	Clamp	DIN 11864-3 Form A	DN 20...100	RDM 7635.1	Neumo/BioConnect®	DN 20...100	RDM 7635.4
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Basic body	stainless steel 1.4435 (316L)																																													
Separating diaphragm	stainless steel 1.4435 (316L), welded, other materials on request																																													
Nominal pressure	PN 16 to 40, dependent on model and size, other nominal size on request																																													
Minimum pressure range	manometer: 0 -1 bar to PN or 0 – 2,5 bar by DN 10 or ½"																																													
Instrument connection	standard: G ½ DIN EN 837-1; optional: welded																																													
Filling liquid	vegetable oil (FN1), others filling liquid on request																																													
Optionen																																														
Separating diaphragm	stainless steel 1.4435 (316L), electropolished																																													
Installation	- via cooling element - via capillary line (please specify the length by ordering)																																													
Certificates	material certificate 3.1, EN 10204 for medium contacted parts																																													

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DIMENSIONAL DRAWINGS

In-Line Seals Type 763..:

Connection for flat or form sealing

Dimensions (mm/inches) and Weight (kg/lb), Minimum Pressure Ranges (MA)¹⁾

Model	DN	PN (bar/psi)	d	d2	G	L _E	L _G	MA	Weight (approx.)
RDM 7631 Male thread DIN 11851	20	40 580	19.8 .78	—	Rd 44 x 1/8	126 4.96	138 5.43	1 bar ¹⁾ 15 psi	1.65 3.64
	25		26.2 1.03		Rd 52 x 1/8		140 5.51		1.78 3.92
	32		31.8 1.25		Rd 58 x 1/8		114 4.49		2.33 5.14
	40		38.0 1.5		Rd 65 x 1/8		116 4.57		3.20 7.05
	50	25 360	50.7 2		Rd 78 x 1/8	100 3.94	120 4.72		2.55 5.62
	65		65.7 2.59		Rd 95 x 1/8		114 4.49		2.92 6.44
	80		79.7 3.14		Rd 110 x 1/4		126 4.96		3.74 8.25
	100		99.7 3.93		Rd 130 x 1/4		126 4.96		4.69 10.34
RDM 7632 Male thread	1"	40 580	22.5 .89	—	1 15/32	126 4.96	1 bar ¹⁾ 15 psi	1.01 2.23	
APV-ISS	1 1/2"		35.5 1.4		1 69/64			100 3.94	1.62 3.57
RDM 7634 Male thread	2"		48.6 1.91		2 17/32			126 4.96	1.43 3.15
IDF	1"		22.5 .89		1 15/32			100 3.94	1.05 2.31
RDM 7633 Male thread APV-RJT	1 1/2"		35.5 1.4		1 69/64			126 4.96	1.61 3.55
	2"		48.6 1.91		2 17/32			100 3.94	1.43 3.15
	1"		22.5 .89		1 19/16 X 1/8			126 4.96	1.25 2.76
RDM 7637 Male thread SMS	1 1/2"		35.5 1.4		2 5/16 X 1/8			100 3.94	1.8 3.97
	2"	48.6 1.91	2 7/8 X 1/8	126 4.96	1.6 3.53				
	1"	22.5 .89	Rd 40 x 1/8	100 3.94	1.12 2.47				
RDM 7635 Clamp DIN 32 676	1 1/2"	25 360	35.5 1.4	34 1.34	Rd 60 x 1/8	126 4.96	1 bar ¹⁾ 15 psi	1.97 4.34	
	2"		48.6 1.91		Rd 70 x 1/8			100 3.94	1.72 3.79
	10		10 .39		98 3.86			2.5 bar ²⁾ 30 psi	0.25 .55
	20		19.8 .78		126 4.96			1 bar ¹⁾ 15 psi	1.86 4.10
	25		26.2 1.03						1.48 3.26
	32		31.8 1.25						1.19 2.62
	40		38 1.5		100 3.94			0.84 1.85	
50	50.7 2	64 2.52	1.45 3.20						
65	65.7 2.59	91 3.58	2.61 5.75						
RDM 7636 Clamp ISO 2852	1/2"	40 580	10 .39	50.5 1.99	—	98 3.86	2.5 bar ²⁾ 30 psi	0.25 .55	
	1"		22.5 .89					1.70 3.75	
	1 1/2"		35.5 1.4					0.99 2.18	
	2"		48.6 1.91					64 2.52	1.69 3.73
	2 1/2"		59.7 2.35					77.4 3.05	2.24 4.94
	3"		65.7 2.59					91 3.58	2.43 5.36
	4"		99.7 3.93					119 4.69	3.09 6.81

1) Valid for pressure gauge NCS 100 (4"); also valid for corresponding vacuum and vacuum/pressure compound ranges.

2) Valid for pressure gauge NCS 63 (2 1/2"); also valid corresponding vacuum and vacuum/pressure compound ranges. Data for other pressure measuring instruments on request.

In-Line Seals - Type 763.. - Inline-Versions for Hygienic Process Conditions

Connection for O-Ring-sealing

Dimensions (mm/inches) and Weight (kg/lb), Minimum Pressure Ranges (MA)¹⁾

Model	DN	PN (bar/psl)	d	d2	G	L _E	L _G	MA	Weight (approx.)					
RDM 7631.1 Male thread DIN 11864-1	20	40 580	19.8 .78	—	Rd 44 x 1/6	126 4.96	135 5.31	1 bar ¹⁾ 15 psl	1.65 3.94					
	25		26.2 1.03		Rd 52 x 1/6		137 5.39		1.78 3.92					
	32		31.8 1.25		Rd 58 x 1/6		138 5.43		2.33 5.14					
	40		38 1.50		Rd 65 x 1/6		138 5.43		3.20 7.05					
	50	25 360	50.7 2		Rd 78 x 1/6	100 3.94	112 4.41		2.55 5.62					
	65		65.7 2.59		Rd 95 x 1/6		114 4.49		2.92 6.44					
	80		79.7 3.14		Rd 110 x 1/4		118 4.65		3.74 8.25					
	100		99.7 3.93		Rd 130 x 1/4		118 4.65		4.69 10.34					
	RDM 7639 Flange DIN 11864-2		20		16 230		19.8 .78		64 2.52	—	126 4.96	128 5.04	1 bar ¹⁾ 15 psl	2.17 4.78
			25				26.2 1.03		70 2.76			127.2 5.01		2.40 5.29
32		31.8 1.25	76 2.99	127.2 5.01		3.14 6.92								
40		38 1.50	82 3.23	127.2 5.01		3.92 8.64								
50		20 290	50.7 2	94 3.70	100 3.94	101.2 3.98	3.65 8.05							
65			65.7 2.59	113 4.45		101.2 3.98	4.24 9.35							
80			79.7 3.14	133 5.24		101.2 3.98	5.41 11.93							
100			99.7 3.93	159 6.26		101.2 3.98	7.22 15.92							
RDM 7639.4 Flange with recess Neumo / BioConnect®			20	16 230		19.8 .78	80 3.15	—	126 4.96		135 5.31	1 bar ¹⁾ 15 psl		2.31 5.09
			25			26.2 1.03	85 3.35				135 5.31			2.55 5.62
	40	38 1.50	100 3.94		135 5.31	4.10 9.04								
	50	50.7 2	110 4.33		109 4.29	3.81 8.40								
	65	65.7 2.59	140 5.51		109 4.29	4.35 9.59								
	80	79.7 3.14	150 5.91		109 4.29	5.61 12.37								
RDM 7635.1 Collar clamp socket DIN 11864-3	20	40 580	19.8 .78	50.5 1.99	—	126 4.96	128 5.04	1 bar ¹⁾ 15 psl	1.86 4.10					
	25		26.2 1.03				128 5.04		1.48 3.26					
	32		31.8 1.25				127.2 5.01		1.19 2.62					
	40		38 1.50				127.2 5.01		1.38 3.04					
	50	20 290	50.7 2	77.5 3.05		100 3.94	101.2 3.98		1.45 3.20					
	65		65.7 2.59	91 3.58			101.2 3.98		2.61 5.75					
	80		79.7 3.14	106 4.17			101.2 3.98		3.09 6.81					
	100		99.7 3.93	130 5.12			101.2 3.98		4.21 9.28					
	RDM 7635.4 Collar clamp socket with recess Neumo / BioConnect®		20	16 230			19.8 .78		50.4 1.98	—	126 4.96	135 5.31	1 bar ¹⁾ 15 psl	1.82 4.01
			25				26.2 1.03		135 5.31			1.46 3.22		
40		38 1.50	64 2.52		135 5.31	1.32 2.91								
50		50.7 2	77.4 3.05		109 4.29	1.41 3.11								
65		65.7 2.59	90.9 3.58		109 4.29	2.61 5.75								
80		79.7 3.14	106 4.17		109 4.29	3.01 6.64								
100	99.7 3.93	118.9 4.68	109 4.29	4.20 9.26										

1) Valid for pressure gauge NCS 100 (4"); also valid for corresponding vacuum and vacuum/pressure compound ranges. Data for other pressure measuring instruments on request

Our products are constantly in further development, therefore subjects to modifications.