

# Diaphragm Seal

For homogenising machines

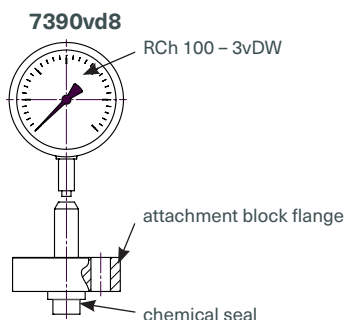
**MDM 7390v**

Information on applications, features, metrological influences such as temperature, level difference, floating time, etc., can be found in model overview 7000. Furthermore, you will find information on other chemical seal versions.

## Construction

The chemical seal model 7390vd8 has an orifice d8 as instrument connection for welding to a pressure gauge, e.g. RCh 100 – 3vDW, or a capillary line.

Leakage cannot occur at the welded connection of pressure gauge / chemical seal / capillary line and the filling port that is not accessible externally. After disassembly, the parts can be easily cleaned-out-of-place (COP).



## Standard Versions

### Chemical Seal and Process Connection

Stainless steel 316L (1.4435)

### Instrument Connection

Orifice d8

### Diaphragm

Stainless steel 316L (1.4435) flush welded with chemical seal

Helium leak detection up to  $10^{-9}$  mbar l/s

Effective diaphragm diameter dM, see table on page 2

### Process Connection

Versions see table on page 2

### Attachment Block Flange

Stainless steel 316L

### Nominal Pressure

PN 1600

### Pressure Ranges

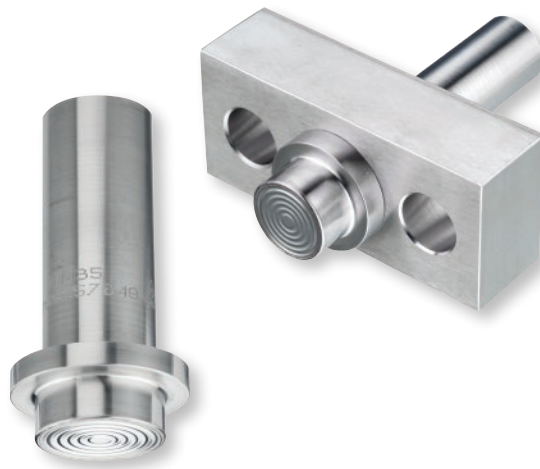
0 – 100, 0 – 160, 0 – 250, 0 – 400, 0 – 600, 0 – 1000, 0 – 1600 bar

### Filling

Glycerin

## Options

- Calculation of the temperature-related additional error for the entire pressure measuring system
- Version pressure transmitter DMU with analogue output 4...20 mA (not autoclavable)



## Special Versions Upon Request

- Reinforced attachment block flange
- Attachment block flange with 4 orifices or union nut
- Other instrument connections (without attachment)
- Version with custom dimensions

## Accessory

Capillary line see data sheet 7.7003

Process connection parts, screws and sealings are not part of the supply range

## Mounting / Filling / Certificates

Information concerning mounting, filling and on certificates are available upon request.

## Ordering Information Chemical Seals

Please regard our detailed ordering information

- in model overview 7000
- in the checklists for pressure measuring instruments with chemical seal
- in the data sheet of the required pressure measuring instrument and add the information for the respective chemical seal, e.g. MDM 7390v

The reference temperature is  $+20\text{ °C}$  ( $+68\text{ °F}$ ). Please specify if an operating temperature ( $t_A$ ) deviating from  $+20\text{ °C}$  ( $+68\text{ °F}$ ) is required (dial inscription  $t_A$ ...). The COP temperature for the autoclavable version is max.  $+134\text{ °C}$  ( $+273.2\text{ °F}$ ).

Example

**Pressure gauge**

RCh 100 – 3vDW

**Chemical seal**

MDM 7390vd8

**Options, if necessary**

$t_A +80\text{ °C}$

**ARMANO**

ARMANO Messtechnik GmbH

### Location Beierfeld

Am Gewerbehark 9 • 08344 Grünhain-Beierfeld  
Tel.: +49 3774 58 – 0 • Fax: +49 3774 58 – 545  
mail@armano-beierfeld.com

### Location Wesel

Manometerstraße 5 • 46487 Wesel-Ginderich  
Tel.: +49 2803 9130 – 0 • Fax: +49 2803 1035  
mail@armano-wesel.com

[www.armano-messtechnik.com](http://www.armano-messtechnik.com)

**7390**

12/22

# Connection, Dimensional Data and Weight

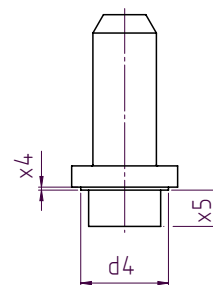
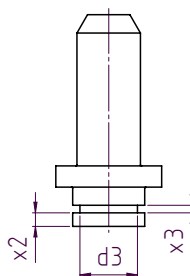
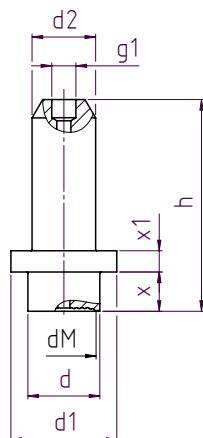
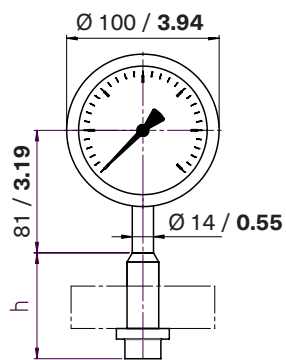
## Chemical Seals

complete view

MDM 7390.56, MDM 7390.57

MDM 7390.23

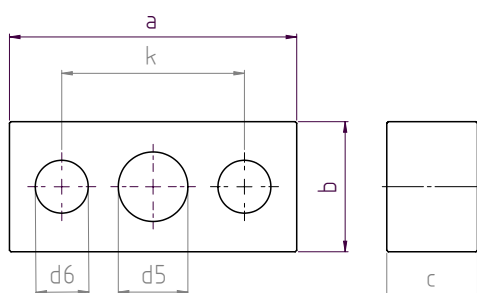
MDM 7390.53



## Dimensional Data (mm / inch) and Weight (kg / lb)

type	d	d1	d2	d3	d4	dM	h	g1	x	x1	x2	x3	x4	x5	weight
7390.56	23.8 <b>0.94</b>	33 <b>1.3</b>	21 <b>0.83</b>	-	-	21 <b>0.83</b>	99 <b>3.9</b>	d8	13 <b>0.51</b>	7 <b>0.28</b>	-	-	-	-	0.29 <b>0.64</b>
7390.57	23.8 <b>0.94</b>	40 <b>1.57</b>	21 <b>0.83</b>	-	-	21 <b>0.83</b>	99 <b>3.9</b>	d8	13 <b>0.51</b>	7 <b>0.28</b>	-	-	-	-	0.31 <b>0.68</b>
7390.23	24 <b>0.94</b>	34.8 <b>1.37</b>	21.5 <b>0.85</b>	18.8 <b>0.74</b>	-	21 <b>0.83</b>	67 <b>2.64</b>	d8	20 <b>0.79</b>	7.5 <b>0.3</b>	5 <b>0.2</b>	4.4 <b>0.17</b>	-	-	0.21 <b>0.46</b>
7390.46	24 <b>0.94</b>	28.3 <b>1.11</b>	21 <b>0.83</b>	18.8 <b>0.74</b>	-	21 <b>0.83</b>	65 <b>2.56</b>	d8	18 <b>0.71</b>	7.5 <b>0.3</b>	5 <b>0.2</b>	4.4 <b>0.17</b>	-	-	0.18 <b>0.4</b>
7390.53	26 <b>1.02</b>	37.5 <b>1.48</b>	31 <b>1.22</b>	-	34 <b>1.34</b>	21 <b>0.83</b>	86 <b>3.39</b>	d8	11 <b>0.43</b>	10 <b>0.39</b>	-	-	1 <b>0.04</b>	10 <b>0.39</b>	0.49 <b>1.08</b>

## Attachment Block Flange



## Dimensional Data (mm / inch) and Weight (kg / lb)

type	a	b	c	d5	d6	k	weight
ARMANO	95 <b>3.74</b>	43 <b>1.69</b>	28 <b>1.1</b>	24 <b>0.94</b>	17.5 <b>0.69</b>	60.5 <b>2.38</b>	0.69 <b>1.52</b>
T17610	95 <b>3.74</b>	43 <b>1.69</b>	30 <b>1.18</b>	23 <b>0.91</b>	17.5 <b>0.69</b>	60.4 <b>2.38</b>	0.71 <b>1.57</b>
T17612	115 <b>4.53</b>	45 <b>1.77</b>	42 <b>1.65</b>	23 <b>0.91</b>	22 <b>0.87</b>	75 <b>2.95</b>	1.32 <b>2.91</b>
T17620	95 <b>3.74</b>	43 <b>1.69</b>	30 <b>1.18</b>	23 <b>0.91</b>	22 <b>0.87</b>	60.4 <b>2.38</b>	0.68 <b>1.5</b>