

Type DRD

**Designation**

The designation consists of two parts:  
1. the series, defined by 3 letters  
2. the nominal size, defined by 9 digits

**Example:**

Type DRD: HYDRA pressure balanced axial expansion joint

**Standard version/materials:**

multi-ply bellows: 1.4541  
operating temperature: up to 300°C

**Designation (example):**

D	R	D	2	5	.	0	4	0	0	.	4	0	0		1
Type			Nominal pressure (PN25)			Nominal diameter (DN 400)				Movement absorption, nominal ( $\delta = \pm 200 = 400$ mm)			Inner sleeve (0 = without, 1 = with)		

**Order text to Pressure Equipment Directive 97/23/EC**

Please state the following with your order:

- for standard versions -> order number
- for different materials -> designation -> details of materials

According to the Pressure Equipment Directive 97/23/EC, the following information is required for testing and documentation:

Type of pressure equipment according to Art. 1:

- vessel volume V [l]

- piping – nominal size DN

Medium property according to Art. 9:

- group 1 – dangerous
- group 2 – all other fluids

State of medium:

- gaseous or liquid, if pD > 0.5 bar
- liquid, if pD < 0.5 bar

Design data:

max. allowable pressure PS [bar]

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max./min. allowable temperature TS [°C]

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test pressure PT [bar]

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Optional:

category \_\_\_\_\_

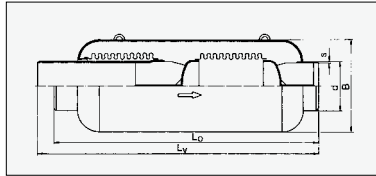
**Note:** Tell us the dimensions that deviate from the standard dimensions and we can match the expansion joint to your specification.

## Axial expansion joint

pressure balanced

## Type DRD 25...

PN 25



Type DRD

Nominal diameter	Nominal axial movement	Type	Total length		Weight approx.	Weld ends		Casing outside diameter	Adjusting force rate
			Un-stressed	Pretensioned		Outside diameter	Wall thickness		
DN	2δ <sub>N</sub>	DRD 25 ...	Lo	Lv	G	d	s	D	c <sub>δ</sub>
–	mm	–	mm	mm	kg	mm	mm	mm	N/mm
<b>400</b>	400	<b>.0400.400.1</b>	2930	3130	800	406.4	7.1	609	175
<b>500</b>	400	<b>.0500.400.1</b>	3090	3290	1250	508.0	8.0	812	220
<b>600</b>	400	<b>.0600.400.1</b>	3110	3310	1600	609.6	10.0	914	285
<b>700</b>	400	<b>.0700.400.1</b>	3310	3510	2350	711.2	11.0	1120	350
<b>800</b>	400	<b>.0800.400.1</b>	3550	3750	3100	812.8	12.5	1220	370
<b>900</b>	400	<b>.0900.400.1</b>	3675	3875	4000	914.4	14.2	1420	460
<b>1000</b>	400	<b>.1000.400.1</b>	3790	3990	5000	1016.0	14.2	1520	590

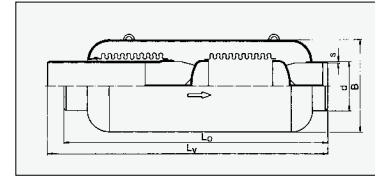
PN 25

## Axial expansion joint

pressure balanced

## Type DRD 40...

PN 40



Type DRD

Nominal diameter	Nominal axial movement	Type	Total length		Weight approx.	Weld ends		Casing outside diameter	Adjusting force rate
			Un-stressed	Pretensioned		Outside diameter	Wall thickness		
DN	2δ <sub>N</sub>	DRD 40 ...	Lo	Lv	G	d	s	D	c <sub>δ</sub>
–	mm	–	mm	mm	kg	mm	mm	mm	N/mm
<b>400</b>	350	<b>.0400.350.1</b>	3020	3195	950	406.4	10.0	609	290
<b>500</b>	350	<b>.0500.350.1</b>	3080	3255	1550	508.0	11.0	812	380
<b>600</b>	350	<b>.0600.350.1</b>	3290	3465	2150	609.6	14.2	914	495
<b>700</b>	350	<b>.0700.350.1</b>	3530	3705	3050	711.2	16.0	1120	650
<b>800</b>	350	<b>.0800.350.1</b>	3600	3775	3800	812.8	20.0	1220	800
<b>900</b>	350	<b>.0900.350.1</b>	3910	4085	5300	914.4	22.2	1420	870
<b>1000</b>	350	<b>.1000.350.1</b>	3950	4125	6100	1016.0	25.0	1520	1045

PN 40