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Standard shall be taken as authoritative

Pipe Joints and Elements for High Pressure Polyethylene (HDPE) Pressure Pipelines

Types 1 and 2
Turned and Pressed Reducing Sockets for Butt-welding
Dimensions

DIN
16 963
Part 13

Rohrverbindungen und Rohrleitungsteile für Druckrohrleitungen aus Polyethylen hoher Dichte (HDPE), Typ 1 und 2;
Gedrehte und gepresste Reduzierstücke für Stumpfschweissung, Masse

Dimensions in mm

1 Scope

This Standard applies to turned and pressed reducing sockets of high density polyethylene (HDPE), type 1 and type 2, which are butt-welded with a heating element to pipes of HDPE type 1 and type 2 in accordance with DIN 8074 Part 1 or Part 2.

The reducing sockets must conform to the requirements of DIN 16 963 Part 5 or Part 25 *).

For technical reasons the reducing sockets may only be welded to pipes of the same pipe series in accordance with DIN 8074 Part 1 or Part 2.

Note: Instead of the designation "Hard polyethylene (hard PE)", the designation "High density polyethylene (HDPE)" was adopted in this Standard in accordance with DIN 7728 Part 1, April 1978 edition.

The previously used code designation "Hard polyethylene (hard PE)" may, however, continue to be used during the transitional period (e.g. the service life of the stamping tools for marking pipes and pipe elements).

2 Other relevant Standards

- | | |
|--------------------|---|
| DIN 8074 Part 1 | Hard polyethylene (hard PE) pipes; type 1, dimensions |
| DIN 8074 Part 2 | High density polyethylene (HDPE) pipes; type 2, dimensions |
| DIN 16 963 Part 5 | Pipe joints and elements of hard polyethylene (hard PE) for pressure pipelines; type 1, general quality requirements, testing |
| DIN 16 963 Part 25 | (at present still in draft form) Pipe joints and elements of high density polyethylene (HDPE) for pressure pipelines; type 2, general quality requirements, testing |

*) At present still in draft form

Continued on pages 2 and 3

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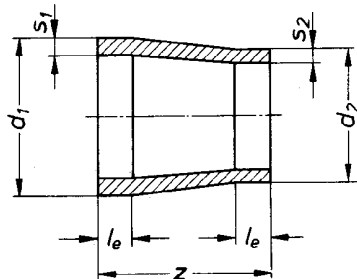
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3 Dimensions, designation

The reducing sockets do not have to conform to the illustration; only the specified dimensions must be adhered to.

Form R3

Reducing socket



Designation of a reducing socket R3 for butt-welding with external pipe diameter $d_1 = 160$ mm reduced to $d_2 = 110$ mm for pipe series 3 of HDPE type 1:

Reducing socket DIN 16963 – R3 – 160 x 110 – 3 – 1

Reduction		s_1	s_2	l_e min.	z min.	Reduction		s_1	s_2	l_e min.	z min.
of $d_1^1)$	to $d_2^1)$					of $d_1^1)$	to $d_2^1)$				
63	50	Wall thickness s of the corresponding pipe series in accordance with DIN 8074 Part 1 or Part 2	20	80	100	180	125	Wall thickness s of the corresponding pipe series in accordance with DIN 8074 Part 1 or Part 2	20	100	
75	50						140				
	63						160				
90	50					200	140				
	63						160				
	75						180				
110	50					225	160				
	63						180				
	75						200				
	90						180				
125	75					250	200				
	90						225				
	110						200				
140	50			280	225						
	63				250						
	90			315	225						
	110				250						
	125				280						
160	90			355	250						
	110				280						
	125				315						
	140				1) For permissible deviations of d_1 and d_2 see DIN 8074 Part 1 and DIN 8074 Part 2						

¹⁾ For permissible deviations of d_1 and d_2 see DIN 8074 Part 1 and DIN 8074 Part 2

Further Standards

- DIN 8075 Part 1 Hard polyethylene (hard PE) pipes; type 1, general quality requirements, testing
- DIN 8075 Part 2 High density polyethylene (HDPE) pipes; type 2, general quality requirements, testing
- DIN 16 963 Part 1 Pipe joints and elements of high density polyethylene (HDPE) for pressure pipelines; types 1 and 2, pipe bends of segmental construction for butt-welding, dimensions
- DIN 16 963 Part 2 (at present still in draft form) Pipe joints and elements of high density polyethylene (HDPE) for pressure pipelines; types 1 and 2, tee pieces and branch connections of segmental construction with necked ends for butt-welding, dimensions
- DIN 16 963 Part 3 Pipe joints and elements of high density polyethylene (HDPE) for pressure pipelines; types 1 and 2, pipe bends for butt-welding, dimensions
- DIN 16 963 Part 4 (at present still in draft form) Pipe joints and elements of high density polyethylene (HDPE) for pressure pipelines; types 1 and 2, bushes, flanges and seals for butt-welding, dimensions
- DIN 16 963 Part 6 (at present still in draft form) Pipe joints and elements of high density polyethylene (HDPE) for pressure pipelines; types 1 and 2, injection moulded fittings for butt-welding, dimensions
- DIN 16 963 Part 7 (Preliminary Standard) Pipe joints and elements of high density polyethylene (HDPE) for pressure pipelines; types 1 and 2, injection moulded fittings for resistance-welding, dimensions
- DIN 16 963 Part 8 Pipe joints and elements of high density polyethylene (HDPE) for pressure pipelines; types 1 and 2, injection moulded elbows for socket-welding, dimensions
- DIN 16 963 Part 9 Pipe joints and elements of high density polyethylene (HDPE) for pressure pipelines; types 1 and 2, injection moulded tee pieces for socket-welding, dimensions
- DIN 16 963 Part 10 Pipe joints and elements of high density polyethylene (HDPE) for pressure pipelines; types 1 and 2, injection moulded sockets and caps for socket-welding, dimensions
- DIN 16 963 Part 11 Pipe joints and elements of high density polyethylene (HDPE) for pressure pipelines; types 1 and 2, bushes, flanges and seals for socket-welding, dimensions
- DIN 16 963 Part 12 (Preliminary Standard) Pipe joints and elements of high density polyethylene (HDPE) for pressure pipelines; types 1 and 2, injection moulded reducing sockets for joining resistance-welded fittings, dimensions
- DIN 16 963 Part 14 (at present still in draft form) Pipe joints and elements of high density polyethylene (HDPE) for pressure pipelines; types 1 and 2, injection moulded reducing sockets and nipples for socket-welding, dimensions