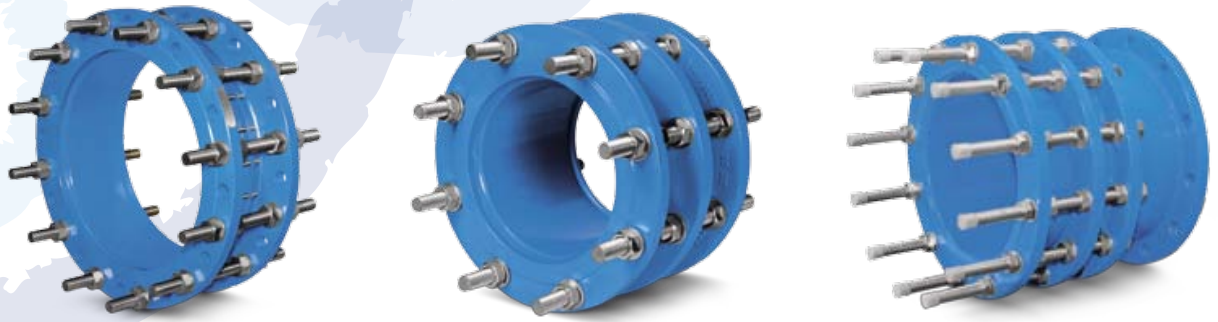


ERHARD is a company of



ERHARD RANGE



ERHARD Dismantling Joints PAS-10, -20 and -30

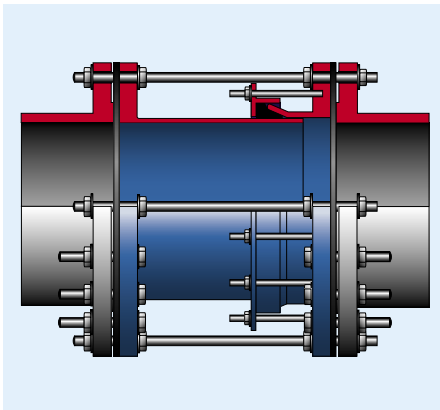
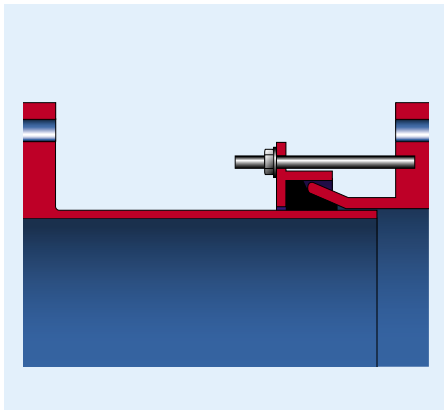


ERHARD PAS10 – the logical choice

The ERHARD PAS10 is equipped with two flanges and one follower end-ring. This design offers optimal gasket control with the separate stud bolts applying pressure to the gasket independently of the tie-rods making the flange connections. This allows a reduction in the number of tie-rods required as their function is restraining only. The ERHARD PAS10 comes equipped with 25 % tie-rods for PN 10 and PN 16 and 50 % tie-rods for PN 25 and PN 40 applications.

The ERHARD PAS10 also makes an unrestrained set-up possible. Here no threaded tie-rods are used allowing the dismantling joint to act as a limited expansion joint absorbing noises and vibrations in the pipeline. This variant requires a fixed point in the pipeline. Anchoring is required if the pipe end can be pulled out of the dismantling joint

Both versions of the ERHARD PAS10 are available in the pressure ratings PN 10, PN 16, PN 25 & PN 40 and in nominal sizes of DN 50 to DN 1600, with a standard longitudinal adjustment of ± 25 mm. Connection flanges to any standard are available upon customer request. Larger nominal sizes, higher pressure ratings and non-standard build lengths are also available on request.

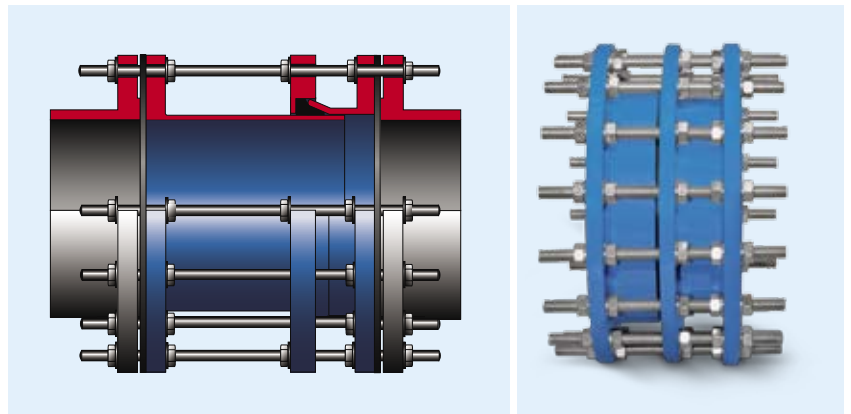


ERHARD PAS20 – P0 the classic all-rounder



Equipped with three flanges, the ERHARD PAS20 is the perfect solution for all standard and non-standard applications. It is easy to install and remove thanks to the standard longitudinal adjustability of ± 25 mm and thus offers perfect support during the installation and removal of valves. The ERHARD PAS20 has connection flanges with the same dimensions at both ends and is lockable.

The ERHARD PAS20 dismantling joint with 100 % continuous threaded tie-rods ensures complete restraint and a leakfree operation. The ERHARD PAS20 is available in standard nominal sizes (see dimensions and weights table) and larger sizes and higher pressure ratings up to 100 bar are always possible depending on customer requirements.



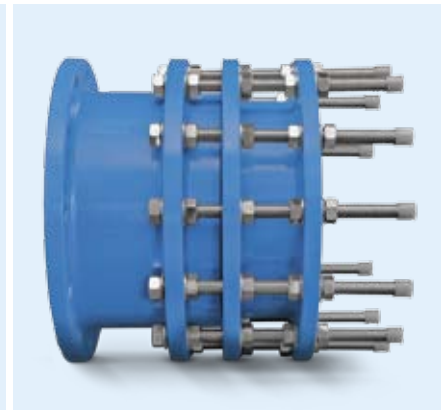
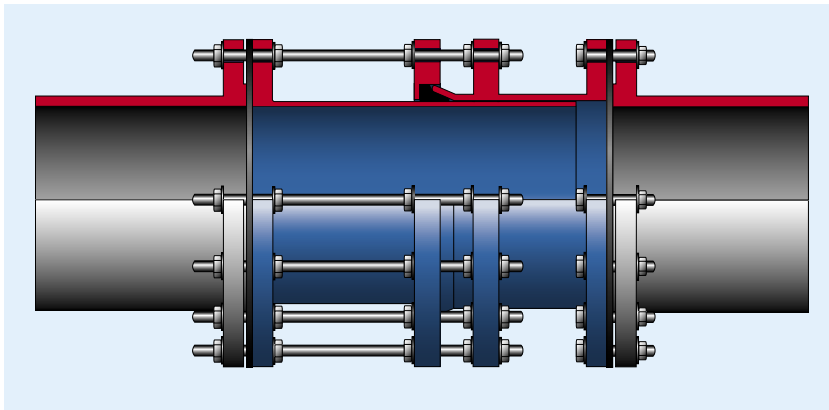
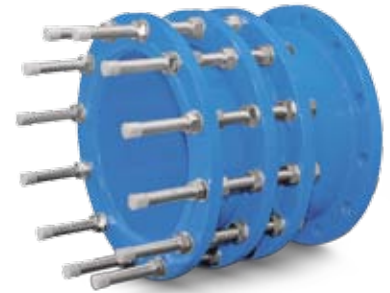
ERHARD PAS30 – PF

the problem solver

The ERHARD PAS30 with four flanges and 100 % tie-rods is the ultimate solution for challenging installations. The additional flange results in an increased construction length which makes it possible to slide the threaded tie-rod between end flanges during installation and removal. The ERHARD PAS30 is also suitable in situations where the overall space only just corresponds to the construction length. This allows sideways insertion making the ERHARD PAS30 ideal for cases where the connection flanges are fixed e.g. where pipes protrude out of the wall.

The additional flange also makes a time-saving preliminary installation of valves possible. The valve and dismantling joint can be fitted together in the pipeline assembly which are then fitted and clamped together (and removed again) together with the dismantling joint. A further advantage is the continuous threaded tie-rods on one side which makes it possible to remove the valve only.

The ERHARD PAS30 can be locked at the required length with adjustability of ± 25 mm when installed in pipelines. Connection flanges can also be delivered according to different standards.



ERHARD dismantling joints – dimensions and weights

PN	DN	Nominal length (mm)	Adjustability +/- (mm)	Tie-rods (number x diameter x length mm)	Weight (kg)
ERHARD PAS10, 25 % tie-rods					
10	50	180	20	2 x M16 x 280	8
	65	180	20	2 x M16 x 280	10
	80	200	20	2 x M16 x 310	13
	100	200	20	2 x M16 x 310	15
	125	200	20	2 x M16 x 310	18
	150	200	20	2 x M20 x 340	22
	200	220	25	4 x M20 x 340	32
	250	220	25	4 x M20 x 360	39
	300	220	25	4 x M20 x 360	45
	350	230	25	4 x M20 x 360	67
	400	230	25	4 x M24 x 370	81
	450	250	25	5 x M24 x 390	91
	500	260	25	5 x M24 x 390	103
	600	260	25	5 x M27 x 410	127
	700	260	25	6 x M27 x 410	160
	800	290	25	6 x M30 x 460	217
900	290	25	7 x M30 x 460	241	
1000	290	25	7 x M33 x 480	277	
1100	300	25	8 x M33 x 480	310	
1200	320	25	8 x M36 x 520	413	
1400	325	25	9 x M39 x 540	548	
1500	325	25	9 x M39 x 540	604	
1600	350	25	10 x M45 x 585	738	
16	50	180	20	2 x M16 x 280	8
	65	180	20	2 x M16 x 280	10
	80	200	20	2 x M16 x 310	13
	100	200	20	2 x M16 x 310	15
	125	200	20	2 x M16 x 310	18
	150	200	20	2 x M20 x 340	22
	200	220	25	4 x M20 x 340	31
	250	230	25	4 x M24 x 370	43
	300	250	25	4 x M24 x 410	53
	350	260	25	4 x M24 x 410	78
	400	270	25	4 x M27 x 430	96
	450	270	25	5 x M27 x 430	111
	500	280	25	5 x M30 x 460	142
	600	300	25	5 x M33 x 480	189
	700	300	25	6 x M33 x 480	199
	800	320	25	6 x M36 x 520	262
900	320	25	7 x M36 x 520	301	
1000	325	25	7 x M39 x 550	374	
1100	325	25	8 x M39 x 550	405	
1200	325	25	8 x M45 x 575	515	
1400	350	25	9 x M45 x 620	674	
1500	390	25	9 x M52 x 675	847	
1600	390	25	10 x M52 x 675	948	
ERHARD PAS10, 50 % tie-rods					
25	50	200	20	2 x M16 x 310	9
	65	200	25	4 x M16 x 310	12
	80	210	20	4 x M16 x 330	13
	100	220	25	4 x M20 x 340	19
	125	220	25	4 x M24 x 370	26
	150	230	25	4 x M24 x 370	29
	200	230	25	6 x M24 x 370	42
	250	250	25	6 x M27 x 410	58
	300	250	25	8 x M27 x 410	78
	350	270	25	8 x M30 x 440	113

PN	DN	Nominal length (mm)	Adjustability +/- (mm)	Tie-rods (number x diameter x length mm)	Weight (kg)	
	400	280	25	8 x M33 x 480	140	
	450	280	25	10 x M33 x 480	158	
	500	300	25	10 x M33 x 480	175	
	600	320	25	10 x M36 x 520	252	
	700	325	25	12 x M39 x 550	317	
	800	325	25	12 x M45 x 575	429	
	900	340	25	14 x M45 x 585	537	
ERHARD PAS10, 50 % tie-rods						
40	50	200	20	2 x M16 x 310	9	
	65	200	25	4 x M16 x 310	12	
	80	210	20	4 x M16 x 330	13	
	100	220	25	4 x M20 x 340	19	
	125	220	25	4 x M24 x 370	26	
	150	230	25	4 x M24 x 370	29	
	200	240	25	6 x M27 x 410	50	
	250	260	25	6 x M30 x 440	80	
	300	280	25	8 x M30 x 460	110	
	350	290	25	8 x M33 x 480	134	
	400	320	25	8 x M36 x 540	201	
	450	320	25	10 x M36 x 540	213	
	500	325	25	10 x M39 x 590	278	
	ERHARD PAS20 / PO					
	10	50	180	20	4 x M16 x 280	11
		65	180	20	4 x M16 x 280	15
80		200	20	8 x M16 x 310	17	
100		200	20	8 x M16 x 310	19	
125		200	20	8 x M16 x 310	23	
150		200	20	8 x M20 x 340	30	
200		220	25	8 x M20 x 340	40	
250		220	25	12 x M20 x 360	54	
300		220	25	12 x M20 x 360	62	
350		230	25	16 x M20 x 360	89	
400		230	25	16 x M24 x 370	113	
450		250	25	20 x M24 x 390	132	
500		260	25	20 x M24 x 390	146	
600		260	25	20 x M27 x 410	184	
700		260	25	24 x M27 x 410	226	
800		290	25	24 x M30 x 460	308	
900	290	25	28 x M30 x 460	350		
1000	290	25	28 x M33 x 480	419		
1100	300	25	32 x M33 x 480	473		
1200	320	25	32 x M36 x 520	632		
1400	325	25	36 x M39 x 540	836		
1500	325	25	36 x M39 x 540	899		
1600	350	25	40 x M45 x 585	1248		
16	50	180	20	4 x M16 x 280	11	
	65	180	20	4 x M16 x 280	15	
	80	200	20	8 x M16 x 310	17	
	100	200	20	8 x M16 x 310	19	
	125	200	20	8 x M16 x 310	23	
	150	200	20	8 x M20 x 340	30	
	200	220	25	12 x M20 x 340	44	
	250	230	25	12 x M24 x 370	63	
	300	250	25	12 x M24 x 410	76	
	350	260	25	16 x M24 x 410	107	
	400	270	25	16 x M27 x 430	137	
	450	270	25	20 x M27 x 430	163	
	500	280	25	20 x M30 x 460	212	

PN	DN	Nominal length (mm)	Adjustability +/- (mm)	Tie-rods (number x diameter x length mm)	Weight (kg)
	600	300	25	20 x M33 x 480	288
	700	300	25	24 x M33 x 480	302
	800	320	25	24 x M36 x 520	399
	900	320	25	28 x M36 x 520	463
	1000	325	25	28 x M39 x 550	600
	1100	325	25	32 x M39 x 550	659
	1200	325	25	32 x M45 x 575	908
	1400	350	25	36 x M45 x 620	1114
	1500	390	25	36 x M52 x 675	1476
	1600	390	25	40 x M52 x 675	1671
25	50	200	20	4 x M16 x 310	11
	65	200	25	8 x M16 x 310	16
	80	210	20	8 x M16 x 330	17
	100	220	25	8 x M20 x 340	26
	125	220	25	8 x M24 x 370	37
	150	230	25	8 x M24 x 370	40
	200	230	25	12 x M24 x 370	60
	250	250	25	12 x M27 x 410	82
	300	250	25	16 x M27 x 410	108
	350	270	25	16 x M30 x 460	158
	400	280	25	16 x M33 x 480	199
	450	280	25	20 x M33 x 480	227
	500	300	25	20 x M33 x 480	249
	600	320	25	20 x M36 x 520	348
	700	340	25	24 x M39 x 550	452
	800	360	25	24 x M45 x 600	629
	900	380	25	28 x M45 x 640	786
40	50	200	20	4 x M16 x 310	11
	65	200	25	8 x M16 x 310	16
	80	210	20	8 x M16 x 330	17
	100	220	25	8 x M20 x 340	26
	125	220	25	8 x M24 x 370	37
	150	230	25	8 x M24 x 370	40
	200	240	25	12 x M27 x 410	79
	250	260	25	12 x M30 x 440	114
	300	280	25	16 x M30 x 460	155
	350	290	25	16 x M33 x 480	193
	400	340	25	16 x M36 x 540	288
	450	340	25	20 x M36 x 540	307
	500	380	25	20 x M39 x 600	408
ERHARD PAS30/PF					
10	50	300	25	4 x M16 x 250	15
	65	300	25	4 x M16 x 250	17
	80	300	25	8 x M16 x 250	20
	100	300	25	8 x M16 x 250	26
	125	300	25	8 x M16 x 250	31
	150	350	25	8 x M20 x 290	41
	200	350	25	8 x M20 x 290	56
	250	350	25	12 x M20 x 290	73
	300	350	25	12 x M20 x 290	84
	350	350	25	16 x M20 x 290	114
	400	375	25	16 x M24 x 320	148
	450	375	25	20 x M24 x 320	169
	500	375	25	20 x M24 x 320	187
	600	400	25	20 x M27 x 340	236
	700	400	25	24 x M27 x 340	289
	800	450	25	24 x M30 x 380	405
	900	450	25	28 x M30 x 380	458
	1000	475	25	28 x M33 x 420	637
	1100	475	25	32 x M33 x 420	719
	1200	525	25	32 x M36 x 450	838
	1400	550	25	36 x M39 x 470	1069
	1500	550	25	36 x M39 x 470	1172
	1600	600	25	40 x M45 x 520	1557
16	50	300	25	4 x M16 x 250	15
	65	300	25	4 x M16 x 250	17
	80	300	25	8 x M16 x 250	20

PN	DN	Nominal length (mm)	Adjustability +/- (mm)	Tie-rods (number x diameter x length mm)	Weight (kg)
	100	300	25	8 x M16 x 250	26
	125	300	25	8 x M16 x 250	31
	150	350	25	8 x M20 x 290	41
	200	350	25	12 x M20 x 290	56
	250	375	25	12 x M24 x 320	79
	300	375	25	12 x M24 x 320	97
	350	425	25	16 x M24 x 350	137
	400	425	25	16 x M27 x 350	168
	450	425	25	20 x M27 x 350	197
	500	450	25	20 x M30 x 380	279
	600	475	25	20 x M33 x 400	358
	700	475	25	24 x M33 x 400	370
	800	525	25	24 x M36 x 450	468
	900	525	25	28 x M36 x 450	546
	1000	550	25	28 x M39 x 450	710
	1100	575	25	32 x M39 x 450	790
	1200	600	25	32 x M45 x 520	1011
	1400	625	25	36 x M45 x 520	1227
25	50	325	25	4 x M16 x 260	15
	65	325	25	8 x M16 x 260	18
	80	325	25	8 x M16 x 260	21
	100	350	25	8 x M20 x 290	27
	125	375	25	8 x M24 x 320	35
	150	375	25	8 x M24 x 320	50
	200	375	25	12 x M24 x 320	74
	250	425	25	12 x M27 x 350	98
	300	425	25	16 x M27 x 350	130
	350	450	25	16 x M30 x 380	208
	400	500	25	16 x M33 x 420	265
	450	525	25	20 x M33 x 420	273
	500	525	25	20 x M33 x 420	327
	600	550	25	20 x M36 x 450	412
	700	600	25	24 x M39 x 470	546
	800	625	25	24 x M45 x 500	711
	900	625	25	28 x M45 x 500	873
40	50	325	25	4 x M16 x 260	15
	65	325	25	8 x M16 x 260	18
	80	325	25	8 x M16 x 260	21
	100	350	25	8 x M20 x 290	27
	125	375	25	8 x M24 x 320	35
	150	375	25	8 x M24 x 320	50
	200	425	25	12 x M27 x 350	76
	250	450	25	12 x M30 x 380	105
	300	450	25	16 x M30 x 380	150
	350	500	25	16 x M33 x 420	276
	400	550	25	16 x M36 x 450	329
	450	550	25	20 x M36 x 450	341
	500	600	25	20 x M39 x 490	465

Additional nominal sizes or pressure ratings on request

Standard materials & relevant norms

Flange norm/drilling	ISO2531/EN1092 raised face – reduced bore (RF-RB), other norms/drillings, e.g. ANSI Class on request
Body	GGG-50, S235 to EN10025 and/or S275 to EN10025
Gasket	EPDM to EN-681 (WRAS approved)
Bolts, nuts & washers	Hot dip galvanized (stainless steel AIS316-A4 on request)
Tie-rods	Zinc electroplated or hot dip galvanized (stainless steel AIS316-A4 on request)
Coating	Non-toxic fusion bounded epoxy (FBE) powder, Resicoat RT9000 R4 epoxy (blue coloured-RAL 5015), 305 microns (WRAS approved)

Perfect technology thanks to top-quality materials



All variants correspond to the world leading AWWA C219 standard, and are manufactured in Europe using top material qualities in a precise process.

- Specially developed expanders are used for steel production, where the rings are expanded outwards evenly under heavy pressure. This guarantees an absolutely “round” product with minimum tolerances to satisfy hydrostatic pressure testing according to AWWA C219.
- The threaded tie-rods, washers and nuts – key for the strength of the connection – are made of zinc electroplated or hot-dip galvanised steel, with stainless steel versions available as an option.
- Only high-quality EPDM or NBR qualities for water, drinking water and sewage are used for the gasket. These guarantee a clean seal for years, and at the same time the movement of the dismantling joint (PAS10, 0 % tie-rods) and the flange adaptor with the pipe.

High-quality FBE coatings protect ERHARD dismantling joints from long term corrosion.





An expander guarantees an absolutely "round" product, the surface of which is protected by a high quality FBE coating. Subsequent steps are assembly and quality control.

- The surfaces of all metal parts apart from the threaded tie-rods, washers and nuts are safely protected from corrosion by a fusion bonded epoxy (FBE) coating with a dry film thickness of 305 µm. Further coatings are available as options, e.g. Rilsan EPC, enamel, liquid varnishes (suitable for drinking water) or other special outer coatings. Inner rubber coatings such as ebonite are also available. The choice of coating depends on the requirements resulting from the medium to be used and customer wishes.

Engineering capability & project support

ERHARD offers additional possibilities on top of the standard range. The ERHARD Engineering team can design products tailored to customer needs e.g with specific face to face lengths, greater adjustability, special materials or alternative coatings. The products can be engineered to meet working pressures of 100 bar and beyond and to diameters in of DN 4000 or greater. ERHARD is also able to offer project management and reporting, dedicated testing such as Hydrostatic pressure testing or weld inspections, documentation such as test reports, material certificates, bespoke drawings or technical reports, as well as third party inspections.

Part of the TALIS complete solution

Dismantling joints can be combined perfectly with all the products in the wide TALIS range such as gate valves, butterfly valves, return flow inhibitors or fittings, but can of course also be used with components from other manufacturers. Customer-specific versions are also available in addition to the many standard variants, of course. This also applies to the dismantling joints with larger sizes or higher pressure ratings.



Your Choice in Waterflow Control



TALIS is the undisputed Number One for water transport and water flow control. TALIS has the best solutions available in the fields of water and energy management as well as for industrial and communal applications. We have numerous products for comprehensive solutions for the whole water cycle – from hydrants, butterfly valves and knife gate valves through to needle valves. Our experience, innovative technology, global expertise and individual consultation processes form the basis for developing long-term solutions for the efficient treatment of the vitally important resource “water”.



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