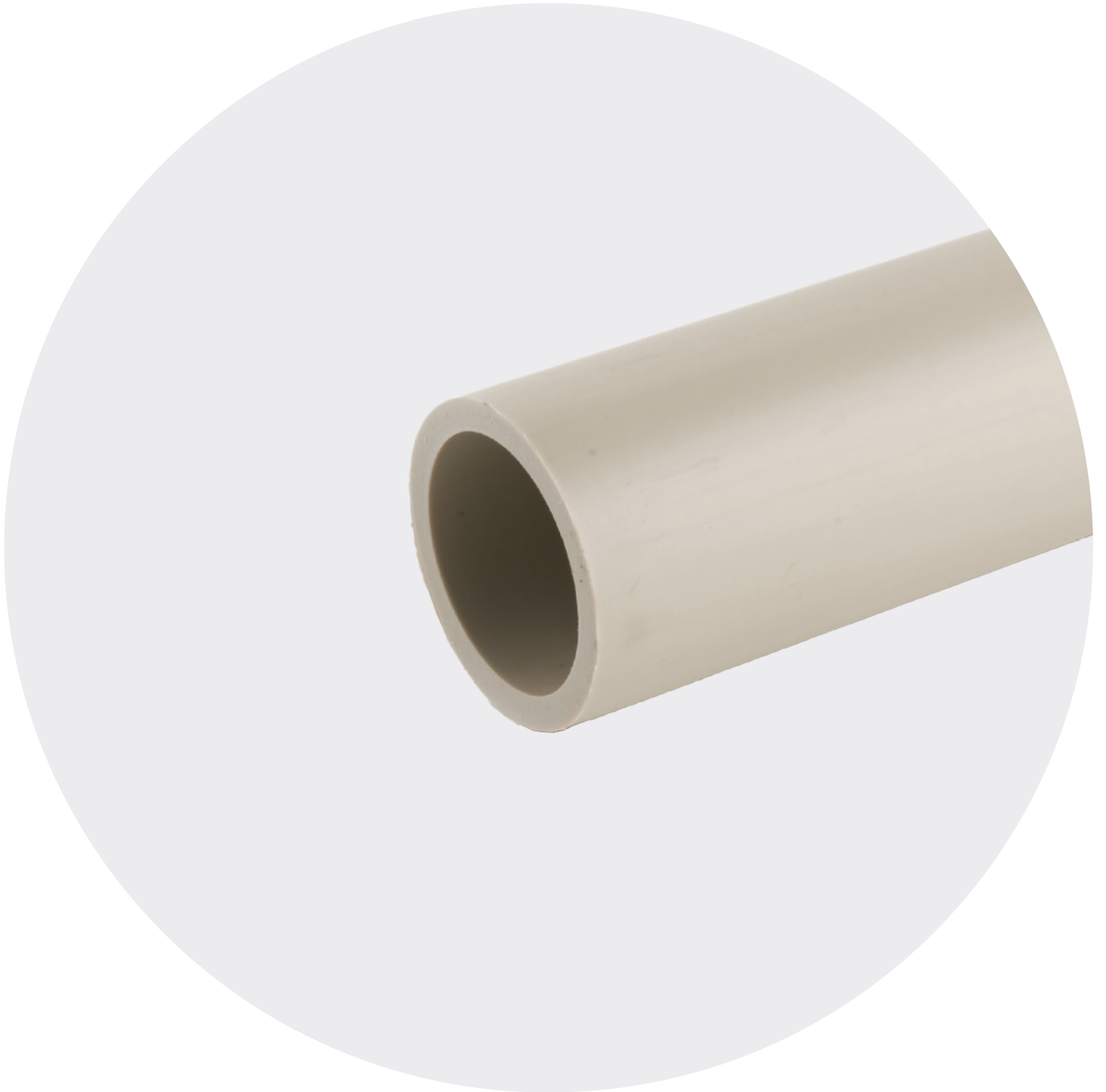


# ISO-UNI PIPE

Pressure pipe



# ISO-UNI PIPE

Pressure pipes for connection system  
by butt or socket welding.

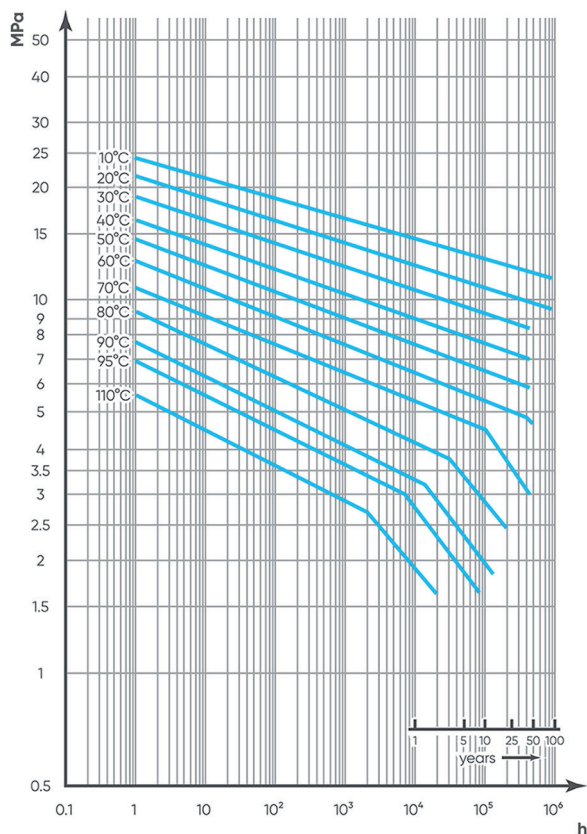
## PRESSURE PIPE

Technical specifications	
<b>Size range</b>	d 20 ÷ d 400 (mm)
<b>Nominal pressure</b>	SDR 17,6 (PN6) with water at 20 °C SDR 11 (PN10) with water at 20 °C
<b>Temperature range</b>	0 °C ÷ 95 °C
<b>Coupling standards</b>	<b>Welding:</b> EN ISO 15494 Can be coupled to pipes according to EN ISO 15494
<b>Reference standards</b>	<b>Construction criteria:</b> EN ISO 15494 <b>Test methods and requirements:</b> EN ISO 15494 <b>Installation criteria:</b> DVS 2202-1, DVS 2207-11, DVS 2208-1, UNI 11318, UNI 11397
<b>Material</b>	PP-H

# TECHNICAL DATA

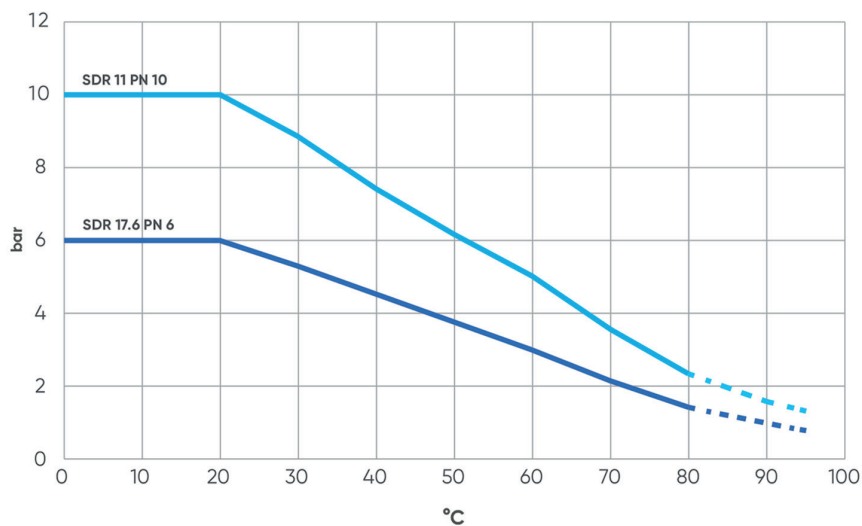
## REGRESSION CURVES FOR PIPES IN PP-H

Regression coefficients in accordance with standards DIN and EN ISO for MRS = 10 N/mm<sup>2</sup>

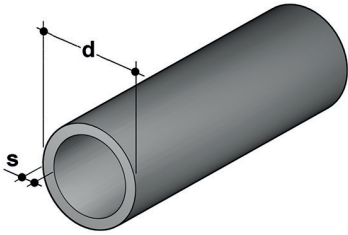


## PRESSURE VARIATION ACCORDING TO TEMPERATURE

Graph valid for water and non-hazardous fluids with regard to which the material is classified as CHEMICALLY RESISTANT. In other cases, a reduction of the nominal pressure PN is required.  
 SDR 11 ISO-S5 PN 10 - 25 years  
 SDR 17,6 ISO-S8,3 PN 6 - 25 years



# DIMENSIONS



## PIPE

PP-H pressure pipe according to DIN 8077/8078, Beige - RAL 7032, standard length 5m PN6

d	DN	S (mm)	kg/m	PN6 code SDR 17,6 - S 8,3
*25	20	1,8	0,13	PIPEM17025
*32	25	1,9	0,17	PIPEM17032
*40	32	2,3	0,27	PIPEM17040
*50	40	2,9	0,42	PIPEM17050
*63	50	3,6	0,66	PIPEM17063
*75	65	4,3	0,94	PIPEM17075
*90	80	5,1	1,33	PIPEM17090
*110	100	6,3	1,99	PIPEM17110
*125	100	7,1	2,55	PIPEM17125
*140	125	8,0	3,20	PIPEM17140
*160	150	9,1	4,17	PIPEM17160
*180	150	10,2	5,25	PIPEM17180
*200	200	11,4	6,50	PIPEM17200
*225	200	12,8	8,19	PIPEM17225
*250	250	14,2	10,10	PIPEM17250
*280	250	15,9	12,60	PIPEM17280
*315	300	17,9	16,00	PIPEM17315
*355	350	20,1	20,30	PIPEM17355
*400	400	22,7	25,70	PIPEM17400
*450	500	25,5	32,50	PIPEM17450
*500	500	28,4	40,20	PIPEM17500
*560	600	31,7	50,30	PIPEM17560
*630	600	35,7	63,70	PIPEM17630
*710	700	40,2	80,80	PIPEM17710
*800	800	45,3	103,00	PIPEM17800

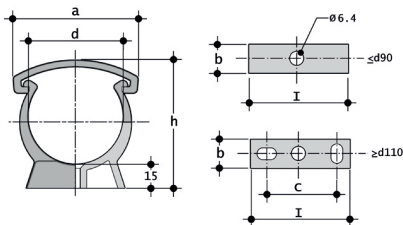
\*resale products

## PIPE

PP-H Pipe according to DIN 8077/8078, Beige - RAL 7032, standard length 5m PN10

d	DN	S (mm)	kg/m	PN10 code SDR 11 - S 5
*12	8	1,8	0,06	PIPEM11012
*16	12	1,8	0,08	PIPEM11016
20	15	1,9	0,11	PIPEM11020
25	20	2,3	0,16	PIPEM11025
32	25	2,9	0,26	PIPEM11032
40	32	3,7	0,41	PIPEM11040
50	40	4,6	0,64	PIPEM11050
63	50	5,8	1,01	PIPEM11063
75	65	6,8	1,41	PIPEM11075
90	80	8,2	2,03	PIPEM11090
110	100	10,0	3,01	PIPEM11110
125	100	11,4	3,91	PIPEM11125
140	125	12,8	4,87	PIPEM11140
160	150	14,6	6,38	PIPEM11160
*180	150	16,4	8,07	PIPEM11180
*200	200	18,2	10	PIPEM11200
*225	200	20,5	12,60	PIPEM11225
*250	250	22,7	15,50	PIPEM11250
*280	250	25,4	19,40	PIPEM11280
*315	300	28,6	24,60	PIPEM11315
*355	350	32,2	31,20	PIPEM11355
*400	400	36,3	40	PIPEM11400
*450	500	40,9	50,10	PIPEM11450
*500	500	45,9	61,80	PIPEM11500

\*resale products

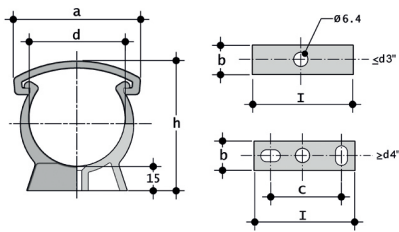


**ZIKM**

Pipe clip for ISO-DIN pipes in PP

d	a	b	C	h	l	g	Code
16	26	18	-	33	16	5	ZIKM016
20	33	14	-	38	20	6,4	ZIKM020
25	41	14	-	44	25	7,8	ZIKM025
32	49	15	-	51	32	11,5	ZIKM032
40	58	16	-	60	40	15,7	ZIKM040
50	68	17	-	71	60	23,2	ZIKM050
63	83	18	-	84	63	28,8	ZIKM063
75	96	19	-	97	75	35,5	ZIKM075
90	113	20	-	113	90	52,4	ZIKM090
110	139	23	40	134	125	71	ZIKM110
140	177	27	70	167	155	149,5	ZIKM140
160	210	30	90	190	180	218,4	ZIKM160
180	237	33	100	211	200	293,6	ZIKM180

for pipe support systems, refer to guidelines DVS 2210-1 (Planning and execution - above-ground pipe systems)

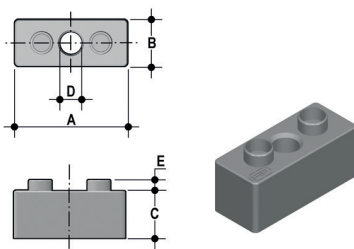


## ZAKM

Pipe clip for ASTM pipes in PP

d	a	b	C	h	I	g	Code
1/2"	33	14	-	39	20	7	ZAKM012
3/4"	41	14	-	45	25	7,8	ZAKM034
1"	49	15	-	52	32	11,7	ZAKM100
1 1/4"	58	16	-	61	40	16	ZAKM114
1 1/2"	68	17	-	67	50	17,9	ZAKM112
2"	83	18	-	80	63	29	ZAKM200
2 1/2"	96	19	-	96	75	36	ZAKM212
3"	118	20	-	110	90	52,3	ZAKM300
4"	140	25	60	135	140	74	ZAKM400
6"	197	30	90	196	180	188	ZAKM600

for pipe support systems, refer to guidelines DVS 2210-1 (Planning and execution - above-ground pipe systems)



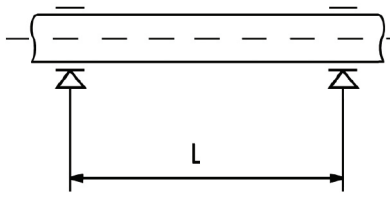
## DSM

Distance plates in PP for ZIKM pipe clips

d	A	B	C	D	E	g	Pack	Master	Code
32	33	16	14	8	4	6,4	20	120	DSM032
40	41	17	17	8	4	8,2	10	80	DSM040
50	51	18	17	8	4	9,8	10	50	DSM050
63	64	19	22,5	8	4	13,4	10	40	DSM063
75	76	20	34,5	8	4	20,2	10	40	DSM075

for pipe support systems, refer to guidelines DVS 2210-1 (Planning and execution - above-ground pipe systems)

# INSTALLATION



The installation of thermoplastic pipe systems requires the use of support clips to prevent flexing and the resulting mechanical stresses. The distance between the clips depends on the pipe material, SDR, surface temperature and the density of the conveyed fluid. Before installing the clips, check the distances reported in the table below, as provided for by guidelines DVS 2210-01 for water pipes.

## Supporting PP-H pipes conveying liquids of density 1 g/cm<sup>3</sup> (water and other fluids of equal intensity)

For pipes of SDR 11 / S 5 / PN 10:

d mm	< 20 °C	30 °C	40 °C	50 °C	60 °C	70 °C	80 °C
16	650	625	600	575	550	525	500
20	700	675	650	625	600	575	550
25	800	775	750	725	700	675	650
32	950	925	900	875	850	800	750
40	1100	1075	1050	1000	950	925	875
50	1250	1225	1200	1150	1100	1050	1000
63	1450	1425	1400	1350	1300	1250	1200
75	1550	1500	1500	1400	1350	1300	1250
90	1650	1600	1700	1500	1450	1400	1350
110	1850	1800	1800	1700	1600	1500	1400
125	2000	1950	1900	1800	1700	1600	1500
140	2100	2050	2000	1900	1800	1700	1600
160	2250	2200	2100	2000	1900	1800	1700
180	2350	2300	2200	2100	2000	1900	1800
200	2500	2400	2300	2200	2100	2000	1900
225	2650	2550	2450	2350	2250	2150	2000
250	2800	2700	2600	2500	2400	2300	2150
280	2950	2850	2750	2650	2550	2450	2300
315	3150	3050	2950	2850	2700	2600	2450
355	3350	3250	3150	3000	2850	2750	2600
400	3550	3450	3350	3200	3050	2900	2750

\* The distance L can be increased by 30% in case of vertical installation of the pipe

For different SDR values, multiply the data in the table by the following factors:

0.91 for SDR 17.6

## Supporting PP-H pipes conveying liquids of density other than 1 g/cm<sup>3</sup>.

If the liquid being conveyed has a density other than 1 g/cm<sup>3</sup>, the distance L must be multiplied by the factors in the table

Fluid density in g/cm <sup>3</sup>	Support factor
1,25	0,96
1,50	0,92
1,75	0,88
2,00	0,94
< 0,01	1.30 for SDR11 1.47 for SDR17.6