

# Data Sheet STRAUB FLEX 2

## Pipe joint without axial restraining for all pipe materials

Materials	W1	W2	W4	W5
<b>Components</b>				
Casing	AISI 1024, hot-dip galv.	AISI 316 Ti		AISI 316 Ti
Screws	AISI 4135**	AISI 4135**		AISI 316 L
Bolts	AISI 12L 14, galvanized	AISI 12L 14, galvanized		AISI 316 L
Strip insert (option)	AISI 316 L / HDPE	AISI 316 L / HDPE		AISI 316 L / HDPE
Sealing sleeve	Temp.: -20°C up to +80°C Medium: all qualities of water, waste water, air, solids and chemical products			
<b>EPDM</b>				
Sealing sleeve	Temp.: -20°C up to +80°C Medium: water, gas, oil, fuel and other hydrocarbons			
<b>NBR</b>				
<b>Chemical resistance of sealing sleeve on request.</b>				
<b>L-, LS-, and LU-version in W2 or W5. H- and XS-version in W1.</b>				

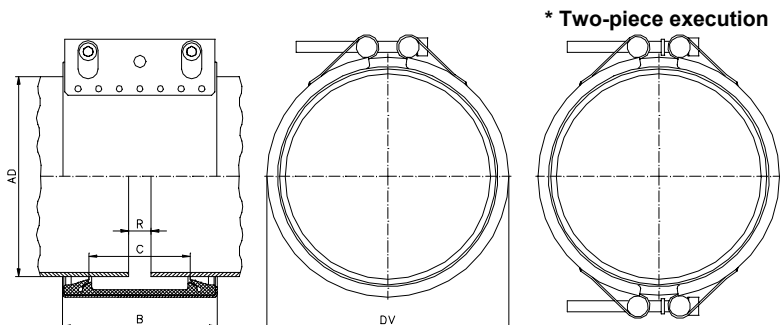
DV = Outside diameter of the assembled pipe joint (mm) = D + 27 mm

**B = Width of the pipe joint (mm)**

FLEX 2L = 138mm  
 FLEX 2LS = 139mm  
 FLEX 2LU = 141mm  
 FLEX 2H = 142mm  
 FLEX 2XS = 153mm

C = Distance between sealing lips = 91 mm

R<sub>max.</sub> = Distance between pipe ends  
 R<sub>max.</sub> with strip insert = 35 mm  
 R<sub>max.</sub> without strip insert = 10 mm



Pipe AD (mm)	Clamping range (mm)	Working pressure					Torque rate					Locking bolts		
		L PB <sub>min</sub> (bar)	LS/LS* PB <sub>min</sub> (bar)	Flex 2 LU/LU* PB <sub>min</sub> (bar)	H/H* PB <sub>min</sub> (bar)	XS PB <sub>min</sub> (bar)	L (Nm)	LS/LS* (Nm)	Flex 2 LU/LU* (Nm)	H/H* (Nm)	XS (Nm)	L/LS/LS*	Flex 2 LU/LU*/H/H*	XS
180.0	178 - 182	12.0	16.5	25.0	-	-	10	15	20	-	-	2(4*) x M10 with SW 8	2(4*) x M12 with SW 10	2 x M20 with SW 17
200.0	198 - 202	11.0	15.0	25.0	-	-	10	15	30	-	-			
219.1	217 - 222	10.0	13.5	25.0	-	-	10	15	30	-	-			
250.0	248 - 253	9.0	12.0	24.0	-	-	10	15	30	-	-			
267.0	264 - 270	8.0	11.0	22.5	-	-	15	15	30	-	-			
273.0	270 - 276	8.0	11.0	22.0	25.0	-	15	15	30	30	-			
304.0	301 - 307	7.0	10.0	19.5	25.0	-	15	20	30	30	-			
323.9	321 - 327	7.0	9.5	18.5	25.0	-	15	20	30	30	-			
355.6	353 - 358	6.0	8.5	17.0	25.0	-	15	20	30	30	-			
406.4	404 - 409	5.5	7.5	15.0	22.0	25.0	20	20	30	40	120			
457.2	454 - 460	5.0	6.5	13.0	19.0	25.0	20	20	40	40	120			
508.0	505 - 511	4.5	6.0	12.0	17.0	25.0	20	25	40	40	120			
558.8	556 - 562	4.0	5.5	10.5	16.0	25.0	25	25	40	50	140			
609.6	606 - 613	3.5	5.0/5.0*	10.0	14.0	25.0	25	25/20*	40	50	140			
711.2	708 - 715	-	4.0/4.0*	8.5	12.0	25.0	-	30/25*	50	50	140			
762.0	758 - 766	-	4.0/4.0*	8.0	12.0	23.5	-	30/25*	50	60	160			
812.8	809 - 817	-	3.5/3.5*	7.5	11.0	22.0	-	30/25*	50	60	160			
914.4	910 - 918	-	3.5/3.5*	6.5	10.0	20.0	-	35/30*	60	60	160			
1016.0	1012 - 1020	-	3.0/3.0*	6.0	9.0	18.0	-	35/30*	60	70	160			
1117.6	1114 - 1122	-	2.5/2.5*	5.5	8.0	16.0	-	40/35*	70	70	180			
1219.2	1215 - 1224	-	2.5/2.5*	5.0/5.0*	7.0/7.0*	15.0	-	40/40*	70/50*	80/60*	180			
1320.8	1316 - 1325	-	2.5*	4.5*	7.0*	-	-	45*	60*	70*	-			
1422.4	1418 - 1427	-	2.0*	4.0*	6.0*	-	-	45*	60*	70*	-			
1524.0	1519 - 1529	-	2.0*	4.0*	6.0*	-	-	45*	70*	80*	-			
1600.0	1595 - 1605	-	2.0*	4.0*	6.0*	-	-	50*	70*	80*	-			

Available for pipe sizes from 180 up to 1600 mm

Right of alteration reserved.

**Legend:** - W1 - W5 according to DIN Standard 86128 (ASTM F 1476 / F1548, ISO/NP-15837 / 15838).  
 \*\* Property class 12.9, Cacromet 500 (zinc-chromate with integrated lubricant).

**Remarks:** \* Casing in two-piece execution  
 - Follow fitting /disassembly instructions.  
 - Admissible **maximum axial movement** of the pipes Δl: 10 mm.  
 - Weight of the pipe joints see packing specifications.  
 - Strip insert are required when the gap between the pipe ends is excessive, in presence of swelling, at vacuum/depression (suction line, or external pressure. Strip inserts are available, under separate order, at additional costs.

**straub**

**the original**