

Festec® Flange Spreader

Proven - Quick - Simple - Safe

Large gap or zero gap, the patented Festec® Flange Spreader spreads them all

- easy to use
- requires no large investments
- safe to handle
- extremely long lasting top-quality product

Model registered under no. 5773-00 Patent application no. 8400898 Manufactured and tested according procedures of the Dutch Metal Research institute T.N.O.



In short, the Festec® Flange Spreader replaces conventional methods and is a must for mechanical plant maintenance technicians.

Where other tools or methods might be too big, impractical or even cannot be used, the Festec® Flange Spreader always fits in bolted flange joints.



Compact and practical tool

The Festec Flange Spreader will fit in every toolbox due to its handy size and low weight. It is not much larger than a studbolt and requires mostly the same heavy duty spanner as used on the nuts of the studbolts in the flange joint to be separated.

The long press bolts of the Festec® Flange Spreader enables a wide opening of the flange connection and thus a thorough cleaning and inspection of the packing faces. Even flange joints without a gap can be spread safely. If used properly the Festec® Flange Spreader helps to avoid the risk of damaging the packing faces.







Applications

The Festec® Flange Spreader can be used to

- replace a gasket, orifice plate, ring joint or lens ring
- fit a blind flange
- clean or inspect packing faces
- open joints on turbines, pumps, covers of heat exchangers, filters etc.

The Festec® Flange Spreader can be used on flanges according ANSI, DIN, API and SP standards. For the right choice of size is referred to the selection table or the technical specification chart.

The part of the Festec® Flange Spreader with the press bolt can also be used for levelling heavy machinery.

References

The Festec® Flange Spreader is used successfully by thousands of customers worldwide, such as refineries, (petro-)chemical and pharmaceutical industries, (nuclear) power-plants, paper- and steel-mills, food- and luxury industries, shipbuilding and offshore industry etc. as well as their contractors.



Using the Festec® Flange-Spreader

A set of the Festec® Flange Spreader consists of 2 units. Each unit consists of 1 plug with a press bolt inside and 1 counter plug. A flange connection can only be opened safely by using 1 set per flange joint to be spread.

After the stud bolts have been removed diagonally from 2 opposite bolt-holes in the flange connection to be spread, the 4 plugs of the Festec® Flange-Spreader are screwed right and tight into these holes. The plugs have to be tightened properly by means of heavy duty spanners with a torque of at least 700 Nm. Even heavy torque equipment might be used for tightening the plugs securely. A higher torque results in a higher spreading capacity of the Festec® Flange Spreader.

If mounted and tightened properly, a safe spreading capacity up to 10 tonnes can be achieved (depends on which type of Festec® Flange Spreader is used).

After the press bolts of the Festec® Flange Spreader have been turned until they touch against the counter plugs, the other studbolts in the flange joint are removed or loosened.

Now the flange connection can be pressed open wide and safely with the aid of the evenly forcing press bolts.

Due to the high forces applied, it is recommended to use anti-seize paste both on the top as well as on the tread of the press bolts.



After use the Festec® Flange Spreader should be cleaned and greased properly.



The Festec® Flange Spreader should not be used on cast-iron flanges.



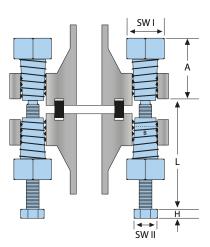
Technical information - Festec® Flange Spreader

selection table

		B								
	spreading force		2631	2632		2634	2635			
Part number		mm	DN 6	DN 10	DN 16	DN 25	DN 40	DN 64		
FFS-22	10T (100kN)	14	32 - 65	10 - 25	10 - 25	10 - 25	10 - 25	10 - 15	10 - 15	10 - 15
FFS-27	10T (100kN)	18				32 - 80	32 - 80	25	25	25
FFS-32	8,5T (85kN)	23				100	100	32 - 80	32 - 40	40
FFS-36	7,5T (75kN)	27	600					100	50 - 80	50 - 80
FFS-41	7T (70kN)	30		600	400			125	100	100
FFS-46	6T (60kN)	33			500	350				
FFS-50	6T (60kN)	36			600		350		200	
FFS-55	5,5T (55kN)	39				600	400	350	250	
FFS-60	4,5T (45kN)	42					500	400	300	
FFS-65	4T (40kN)	48							350	

for ANSI (ASA) flanges										
B mm inch		150 300 lbs lbs		400 Ibs			1500 lbs	2500 lbs		
15,9	5/8	1/2", 3/4" 1", 1 1/4" 1 1/2"	1/2"	1/2"	1/2"					
19,1	3/4	2", 2 1/2" 3", 3 1/2" 4"	3/4", 1" 1 1/4", 2"	3/4" 1" 1 1/4"	3/4", 1" 1 1/4" 2"					
22,2	7/8	5" 6" 8"	1 1/2", 2 1/2" 3", 3 1/2" 4", 5", 6"	1 1/2" 2 1/2" 3"	1 1/2" 2 1/2" 3"	1/2" 3/4"	1/2" 3/4"	1/2" 3/4"		
25,4	1	10" 12"	8"	3 1/2", 4" 5", 6"	3 1/2" 4"	1", 1 1/4" 2", 3"	1", 1 1/4" 2"	1"		
28,6	1 1/8	14" 16"	10"	8"	5" 6"	1 1/2" 2 1/2"	1 1/2" 2 1/2"	1 1/4" 2"		
31,8	1 1/4	18" 20"	12" 14"	10"	8"	4" 6"	3"	1 1/2" 2 1/2"		
34,9	1 3/8	24"	16", 18" 20"		10" 12"	5"	4"	3"		
38,1	1 1/2				14"	8", 10" 12"	6"			
41,3	1 5/8		24"		16"	14"	5"	4"		
44,5 48,0	13/4 17/8				18" 20"	16"	8"	5"		

technical specification chart



		SWI		SW II		н		L		Α		В	
Part numb		mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch
FFS-2	22	22	7/8	13	1/2	5	3/16	85	3 3/8	34	1 5/16	14 - 15,9	5/8
FFS-2	27	27	1 1/16	17	11/16	7	1/4	100	3 15/16	47	17/8	18 - 19,1	3/4
FFS-3	32	32	1 1/4	22	7/8	9	3/8	110	4 5/16	50	1 15/16	22,2 - 23	7/8
FFS-3	36	36	17/16	24	15/16	11	7/16	130	5 1/8	56	2 3/16	25,4 - 27	1
FFS-4	1	41	1 5/8	27	1 1/16	12	1/2	140	5 1/2	64	2 1/2	28,6 - 30	1 1/8
FFS-4	16	46	1 13/16	30	1 3/16	13	1/2	200	77/8	73	2 3/4	31,8 - 33	1 1/4
FFS-5	60	50	1 15/16	30	1 3/16	13	1/2	200	77/8	73	2 3/4	34,9 - 36	1 3/8
FFS-5	55	55	2 3/16	32	1 1/4	14	9/16	225	8 7/8	73	2 3/4	38,1 - 39	1 1/2
FFS-6	50	60	2 3/8	32	1 1/4	14	9/16	225	8 7/8	77	3 1/16	41,3 - 42	1 5/8
FFS-6	55	65	2 9/16	32	1 1/4	14	9/16	225	8 7/8	77	3 1/16	44,5 - 48	13/4 - 17/8

More information

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