

## Screws, nuts and washers for flanges

Type zinc-plated steel 8.8*	Type zinc-plated steel 8.8*	Type zinc-plated steel 8.8*	Thread	Effective usable length (shaft length - 2 x washers - 1 x nut)
Hex. head screws	Nuts	Washers		
933-M12x45 **	934-M12	125A-12	M 12	30
933-M12x55	934-M12	125A-12	M 12	40
933-M16x60	934-M16	125A-16	M 16	41
933-M16x65 **	934-M16	125A-16	M 16	46
933-M16x70	934-M16	125A-16	M 16	51
933-M20x70	934-M20	125A-20	M 20	48
933-M20x75 **	934-M20	125A-20	M 20	53
933-M20x80	934-M20	125A-20	M 20	58

More sizes can be found on page 622, 616, 617

Type stainless steel A2*	Type stainless steel A2*	Type stainless steel A2*	Thread	Effective usable length (shaft length - 2 x washers - 1 x nut)
Hex. head screws	Nuts	Washers		
933-M12x45 ES**	934-M12 ES	125A-12 ES	M 12	30
933-M12x55 ES	934-M12 ES	125A-12 ES	M 12	40
933-M16x60 ES	934-M16 ES	125A-16 ES	M 16	41
933-M16x65 ES**	934-M16 ES	125A-16 ES	M 16	46
933-M16x70 ES	934-M16 ES	125A-16 ES	M 16	51
933-M20x70 ES	934-M20 ES	125A-20 ES	M 20	48
933-M20x75 ES**	934-M20 ES	125A-20 ES	M 20	53
933-M20x80 ES	934-M20 ES	125A-20 ES	M 20	58

More sizes can be found on page 622, 616, 617

Type stainless steel A4	Type stainless steel A4	Type stainless steel A4	Thread	Effective usable length (shaft length - 2 x washers - 1 x nut)
Hex. head screws	Nuts	Washers		
933-M12x45 ES4A**	934-M12 ES4A	125A-12 ES4A	M 12	30
933-M12x55 ES4A	934-M12 ES4A	125A-12 ES4A	M 12	40
933-M16x60 ES4A	934-M16 ES4A	125A-16 ES4A	M 16	41
933-M16x65 ES4A**	934-M16 ES4A	125A-16 ES4A	M 16	46
933-M16x70 ES4A	934-M16 ES4A	125A-16 ES4A	M 16	51
933-M20x70 ES4A	934-M20 ES4A	125A-20 ES4A	M 20	48
933-M20x75 ES4A**	934-M20 ES4A	125A-20 ES4A	M 20	53
933-M20x80 ES4A	934-M20 ES4A	125A-20 ES4A	M 20	58

More sizes can be found on page 622, 616, 617

\* standard delivery program, \*\* preferred type



## Screw overview for DIN flanges

		Nominal pressure			
Nom. width	PN 6	PN 10	PN 16	PN 25	PN 40
DN 10	4 pcs. M 10 x 35	4 pcs. M 12 x 45	4 pcs. M 12 x 45	4 pcs. M 12 x 50	4 pcs. M 12 x 50
DN 15	4 pcs. M 10 x 35	4 pcs. M 12 x 45	4 pcs. M 12 x 45	4 pcs. M 12 x 50	4 pcs. M 12 x 50
DN 20	4 pcs. M 10 x 40	4 pcs. M 12 x 50	4 pcs. M 12 x 50	4 pcs. M 12 x 55	4 pcs. M 12 x 55
DN 25	4 pcs. M 10 x 40	4 pcs. M 12 x 50	4 pcs. M 12 x 50	4 pcs. M 12 x 55	4 pcs. M 12 x 55
DN 32	4 pcs. M 12 x 45	4 pcs. M 16 x 50	4 pcs. M 16 x 50	4 pcs. M 16 x 55	4 pcs. M 16 x 55
DN 40	4 pcs. M 12 x 45	4 pcs. M 16 x 50	4 pcs. M 16 x 50	4 pcs. M 16 x 55	4 pcs. M 16 x 55
DN 50	4 pcs. M 12 x 45	4 pcs. M 16 x 55	4 pcs. M 16 x 55	4 pcs. M 16 x 60	4 pcs. M 16 x 60
DN 65	4 pcs. M 12 x 45	4 pcs. M 16 x 55	4 pcs. M 16 x 55	8 pcs. M 16 x 65	8 pcs. M 16 x 65
DN 80	4 pcs. M 16 x 50	8 pcs. M 16 x 60	8 pcs. M 16 x 60	8 pcs. M 16 x 70	8 pcs. M 16 x 70
DN 100	4 pcs. M 16 x 50	8 pcs. M 16 x 60	8 pcs. M 16 x 60	8 pcs. M 20 x 70	8 pcs. M 20 x 70
DN 125	8 pcs. M 16 x 55	8 pcs. M 16 x 65	8 pcs. M 16 x 65	8 pcs. M 24 x 80	8 pcs. M 24 x 80
DN 150	8 pcs. M 16 x 55	8 pcs. M 20 x 65	8 pcs. M 20 x 65	8 pcs. M 24 x 80	8 pcs. M 24 x 80
DN 200	8 pcs. M 16 x 60	8 pcs. M 20 x 70	12 pcs. M 20 x 70	12 pcs. M 24 x 90	12 pcs. M 27 x 100
DN 250	12 pcs. M 16 x 65	12 pcs. M 20 x 75	12 pcs. M 24 x 80	12 pcs. M 27 x 90	12 pcs. M 30 x 110
DN 300	12 pcs. M 20 x 65	12 pcs. M 20 x 75	12 pcs. M 24 x 80	16 pcs. M 27 x 100	16 pcs. M 30 x 120

All data are considered to be unbinding reference values. We accept no liability for data selection that is not confirmed in writing. Pressure data refer, if not otherwise indicated, to liquids of Group II at +20°C.