

BUTTERFLY VALVES FASTENERS DETAILS FOR INSTALLATION

WITH FLANGES DIN ND10 & DIN ND16
WAFFER FLANGELESS BUTTERFLY VALVES

DESCRIPTION	DN50	DN65	DN80	DN100	DN125	DN150	DN200	DN250	DN300	DN350	DN400	DN450	DN500	DN600
WAFFER FLANGELESS VALVES TAPPED TO DIN ND10. (T1)														
BOLT THREAD SIZE	M16 X 2.0 P	M16 X 2.0 P	M16 X 2.0 P	M16 X 2.0 P	M16 X 2.0 P	M20 X 2.5 P	M20 X 2.5 P	M20 X 2.5 P	M20 X 2.5 P	M20 X 2.5 P	M24 X 3.0 P	-	M24 X 3.0 P	M27 X 3.0 P
BOLT LENGTH	110	110	110	120	130	140	140	150	160	180	200	-	220	260
BOLT QTY PER VALVE	4	4	8	8	8	8	8	12	12	16	16	-	16	16
HEX NUT QTY	4	4	8	8	8	8	8	12	12	16	16	-	16	16
PLAIN WASHER QTY	8	8	16	16	16	16	16	24	24	32	32	-	32	32
WAFFER FLANGELESS VALVES TAPPED TO DIN ND16. (T2)														
BOLT THREAD SIZE	M16 X 2.0 P	M16 X 2.0 P	M16 X 2.0 P	M16 X 2.0 P	M16 X 2.0 P	M20 X 2.5 P	M20 X 2.5 P	M24 X 3.0 P	M24 X 3.0 P	M24 X 3.0 P	M27 X 3.0 P	-	M30 X 3.5 P	M33 X 3.5 P
BOLT LENGTH	110	110	110	120	130	130	140	160	180	200	220	-	240	280
BOLT QTY PER VALVE	4	4	8	8	8	8	12	12	12	16	16	-	16	16
HEX NUT QTY	4	4	8	8	8	8	12	12	12	16	16	-	16	16
PLAIN WASHER QTY	8	8	16	16	16	16	24	24	24	32	32	-	32	32
WAFFER FLANGELESS VALVES DRILLED TO DIN ND10. (D1)														
BOLT THREAD SIZE	M16 X 2.0 P	M16 X 2.0 P	M16 X 2.0 P	M16 X 2.0 P	M16 X 2.0 P	M20 X 2.5 P	M20 X 2.5 P	M20 X 2.5 P	M20 X 2.5 P	M20 X 2.5 P	M24 X 3.0 P	-	M24 X 3.0 P	M27 X 3.0 P
BOLT LENGTH	110	110	110	120	130	140	140	150	160	180	200	-	220	260
BOLT QTY PER VALVE	4	4	8	8	8	8	8	12	12	16	16	-	16	20
HEX NUT QTY	4	4	8	8	8	8	8	12	12	16	16	-	16	20
PLAIN WASHER QTY	8	8	16	16	16	16	16	24	24	32	32	-	32	40
WAFFER FLANGELESS VALVES DRILLED TO DIN ND16. (D2)														
BOLT THREAD SIZE	M16 X 2.0 P	M16 X 2.0 P	M16 X 2.0 P	M16 X 2.0 P	M16 X 2.0 P	M20 X 2.5 P	M20 X 2.5 P	M24 X 3.0 P	M24 X 3.0 P	M24 X 3.0 P	M27 X 3.0 P	-	M30 X 3.5 P	M33 X 3.5 P
BOLT LENGTH	110	110	110	120	130	130	140	160	180	200	220	-	240	280
BOLT QTY PER VALVE	4	4	8	8	8	8	12	12	12	16	16	-	16	20
HEX NUT QTY	4	4	8	8	8	8	12	12	12	16	16	-	16	20
PLAIN WASHER QTY	8	8	16	16	16	16	24	24	24	32	32	-	32	40

LUGGED BUTTERFLY VALVES

DESCRIPTION	DN50	DN65	DN80	DN100	DN125	DN150	DN200	DN250	DN300	DN350	DN400	DN450	DN500	DN600
LUGGED VALVES TAPPED TO DIN ND10. (T1)														
BOLT THREAD SIZE	M16 X 2.0 P	M16 X 2.0 P	M16 X 2.0 P	M16 X 2.0 P	M16 X 2.0 P	M20 X 2.5 P	M20 X 2.5 P	M20 X 2.5 P	M20 X 2.5 P	M20 X 2.5 P	M24 X 3.0 P	-	M24 X 3.0 P	M27 X 3.0 P
BOLT LENGTH	40	40	40	45	45	50	50	60	60	65	75	-	90	100
BOLT QTY PER VALVE	8	8	16	16	16	16	16	24	24	32	32	-	32	40
HEX NUT QTY	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PLAIN WASHER QTY	8	8	16	16	16	16	16	24	24	32	32	-	32	40
LUGGED VALVES TAPPED TO DIN ND16. (T2)														
BOLT THREAD SIZE	M16 X 2.0 P	M16 X 2.0 P	M16 X 2.0 P	M16 X 2.0 P	M16 X 2.0 P	M20 X 2.5 P	M20 X 2.5 P	M24 X 3.0 P	M24 X 3.0 P	M24 X 3.0 P	M27 X 3.0 P	-	M30 X 3.5 P	M33 X 3.5 P
BOLT LENGTH	40	40	40	45	45	50	55	60	65	75	80	-	100	110
BOLT QTY PER VALVE	8	8	16	16	16	16	24	24	24	32	32	-	32	40
HEX NUT QTY	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PLAIN WASHER QTY	8	8	16	16	16	16	24	24	24	32	32	-	32	40
LUGGED VALVES DRILLED TO DIN ND10. (D1)														
BOLT THREAD SIZE	M16 X 2.0 P	M16 X 2.0 P	M16 X 2.0 P	M16 X 2.0 P	M16 X 2.0 P	M20 X 2.5 P	M20 X 2.5 P	M20 X 2.5 P	M20 X 2.5 P	M20 X 2.5 P	M24 X 3.0 P	-	M24 X 3.0 P	M27 X 3.0 P
BOLT LENGTH	110	110	110	120	130	140	140	150	160	180	200	-	220	260
BOLT QTY PER VALVE	4	4	8	8	8	8	8	12	12	16	16	-	16	20
HEX NUT QTY	4	4	8	8	8	8	8	12	12	16	16	-	16	20
PLAIN WASHER QTY	8	8	16	16	16	16	16	24	24	32	32	-	32	40
LUGGED VALVES DRILLED TO DIN ND16. (D2)														
BOLT THREAD SIZE	M16 X 2.0 P	M16 X 2.0 P	M16 X 2.0 P	M16 X 2.0 P	M16 X 2.0 P	M20 X 2.5 P	M20 X 2.5 P	M24 X 3.0 P	M24 X 3.0 P	M24 X 3.0 P	M27 X 3.0 P	-	M30 X 3.5 P	M33 X 3.5 P
BOLT LENGTH	110	110	110	120	130	130	140	160	180	200	220	-	240	300
BOLT QTY PER VALVE	4	4	8	8	8	8	12	12	12	16	16	-	16	20
HEX NUT QTY	4	4	8	8	8	8	12	12	12	16	16	-	16	20
PLAIN WASHER QTY	8	8	16	16	16	16	24	24	24	32	32	-	32	40

NOTE:

BOLT LENGTH MENTIONED ABOVE INCLUDES WASHER THICKNESS.

§ - BOLTS SHOULD BE USED AT BODY TOP & BOTTOM NECK AREA.

FOR FURTHER DETAILS / CLARIFICATIONS PLEASE CONTACT MMN DESIGN