Bolts for Flange Halves ISO 6162-1

M1H – ISO 6162-1 Flange Half – Standard Series

(for use with 15, 17 and 19 flanges)

Part Number	DN	Inch	Size	G Thread metric *Inch*	A mm *Inch*	max. dynamic working pressure MPa	psi
ZYLS8X25VZX	13	1/2	-8	M8x1.25	25	34.5	5000
UNC5/16-18X11/4	13	1/2	-8	*UNC5/16-18*	*11/4*	34.5	5000
ZYLS10X30VZX	19	3/4	-12	M10x1.5	30	34.5	5000
UNC3/8-16X11/4	19	3/4	-12	*UNC3/8-16*	*11/4*	34.5	5000
ZYLS10X30VZX	25	1	-16	M10x1.5	30	34.5	5000
UNC3/8-16X11/4	25	1	-16	*UNC3/8-16*	*11/4*	34.5	5000
ZYLS10X30VZX	32	1-1/4	-20	M10x1.5	30	28.0	4000
UNC7/16-14X11/2	32	1-1/4	-20	*UNC7/16-14*	*11/2*	28.0	4000
ZYLS12X35VZX	38	1-1/2	-24	M12x1.75	35	21.0	3000
UNC1/2-13X11/2	38	1-1/2	-24	*UNC1/2-13*	*11/2*	21.0	3000
ZYLS12X35VZX	51	2	-32	M12x1.75	35	21.0	3000
UNC1/2-13X11/2	51	2	-32	*UNC1/2-13*	*11/2*	21.0	3000
ZYLS12X40VZX	64	2-1/2	-40	M12x1.75	40	17.5	2538
UNC1/2-13X13/4	64	2-1/2	-40	*UNC1/2-13*	*13/4*	17.5	2538
ZYLS16X50VZX	76	3	-48	M16x2	50	16.0	2321
UNC5/8-11X13/4	76	3	-48	*UNC5/8-11*	*13/4*	16.0	2321
ZYLS16X50VZX	89	3-1/2	-56	M16x2	50	3.5	508
UNC5/8-11X2	89	3-1/2	-56	*UNC5/8-11*	*2*	3.5	508
ZYLS16X50VZX	102	4	-64	M16x2	50	3.5	508
UNC5/8-11X2	102	4	-64	*UNC5/8-11*	*2*	3.5	508
ZYLS16X55VZX	127	5	-80	M16x2	55	3.5	508
UNC5/8-11X21/4	127	5	-80	*UNC5/8-11*	*21/4*	3.5	508

- metric bolts according to ISO 4762-10.9 (DIN 912-10.9)
- UNC bolts according to ANSI / ASME B18.3

50H – ISO 6162-1 Flange Half 5000 psi

(for use with 4A, 4F and 4N flanges)

Part Number	DN	Inch	Size	G Thread metric *Inch*	A mm *Inch*	max. dynamic working pressure MPa	psi
-	32	1-1/4	-20	-	-	34.5	5000
UNC7/16-14X11/2	32	1-1/4	-20	*UNC7/16-14*	*11/2*	34.5	5000
-	38	1-1/2	-24	-	-	34.5	5000
UNC1/2-13X11/2	38	1-1/2	-24	*UNC1/2-13*	*11/2*	34.5	5000
-	51	2	-32	-	-	34.5	5000
UNC1/2-13X11/2	51	2	-32	UNC1/2-13	11/2	34.5	5000

- metric bolts according to ISO 4762-10.9 (DIN 912-10.9)
- UNC bolts according to ANSI / ASME B18.3

Assembly torque see page **Ab-24**

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Bolts for Flange Halves ISO 6162-2

M2H – ISO 6162-2 Flange Half 6000 psi

(for use with 6A, 6F and 6N flanges)

Part Number	DN	Inch	Size	G Thread metric *Inch*	A mm *Inch*	max. dynamic working pressure MPa	psi
ZYLS8X25VZX	13	1/2	-8	M8x1.25	25	42.0	6000
UNC5/16-18X11/4	13	1/2	-8	*UNC5/16-18*	*1-1/4*	42.0	6000
ZYLS10X35VZX	19	3/4	-12	M10x1.5	35	42.0	6000
UNC3/8-16X11/2	19	3/4	-12	*UNC3/8-16*	*1-1/2*	42.0	6000
ZYLS12X45VZX	25	1	-16	M12x1.75	45	42.0	6000
UNC7/16-14X13/4	25	1	-16	*UNC7/16-14*	*1-3/4*	42.0	6000
ZYLS12X45VZX	32	1-1/4	-20	M12x1.75	45	42.0	6000
UNC1/2-13X13/4	32	1-1/4	-20	*UNC1/2-13*	*1-3/4*	42.0	6000
ZYLS16X55VZX	38	1-1/2	-24	M16x2	55	42.0	6000
UNC5/8-11X21/4	38	1-1/2	-24	*UNC5/8-11*	*2-1/4*	42.0	6000
ZYLS20X65VZX	51	2	-32	*M20x2.5*	*65*	42.0	6000
UNC3/4-10X23/4	51	2	-32	*UNC3/4-10*	*2-3/4*	42.0	6000
ZYLS24X75VZX	64	2-1/2	-40	M24x3	75	42.0	6000
-	64	2-1/2	-40	-	-	42.0	6000
ZYLS30X90VZX	76	3	-48	M30x3.5	90	42.0	6000
-	76	3	-48	-	-	42.0	6000

- metric bolts according to ISO 4762-10.9 (DIN 912-10.9)
- UNC bolts according to ANSI / ASME B18.3

8FH – ISO 6162-2 Flange Half 8000 psi

(for use with 8A, 8F and 8N flanges)

Part Number	DN	Inch	Size	G Thread metric *Inch*	A mm *Inch*	max. dynamic working pressure MPa	psi
ZYLS10X45109X	19	3/4	-12	M10x1.5	45	56.0	8000
ZYLS12X50109X	25	1	-16	M12x1.75	50	56.0	8000
ZYLS12X50109X	32	1-1/4	-20	M12x1.75	50	56.0	8000
ZYLS14X50109X	32	1-1/4	-20	M14x2	50	56.0	8000
-	51	2	-32	-	-	34.5	5000

- metric bolts according to ISO 4762-10.9 (DIN 912-10.9)
- UNC bolts according to ANSI / ASME B18.3

Assembly torque see page **Ab-25**

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Bolts for Full Flange System ISO 6162

ISO 6162-1 Retaining Ring Flange System

(for use with X5, X7 and X9 flanges)

Part Number	Flange Part Number	SAE Flange Size Inch	G Thread metric *Inch*	A mm *Inch*	max. dynamic working pressure MPa	psi
ZYLS10X40VZX	R-312-CFX	3/4	M10x1.5	40	35.0	5000
UNC3/8-16X11/4	R-312-CFX	3/4	*UNC3/8-16*	*1-1/4*	*35.0*	5000
ZYLS10X40VZX	R-316-CFX	1	M10x1.5	40	35.0	5000
UNC3/8-16X11/4	R-316-CFX	1	*UNC3/8-16*	*1-1/4*	*35.0*	5000
ZYLS10X40VZX	R-320-CFX	1-1/4	M10x1.5	40	28.0	4000
UNC7/16-14X11/2	R-320-CFX	1-1/4	*UNC7/16-14*	*1-1/2*	*28.0*	4000
ZYLS12X50VZX	R-324-CFX	1-1/2	M12x1.75	50	28.0	4000
UNC1/2-13X11/2	R-324-CFX	1-1/2	*UNC1/2-13*	*1-1/2*	*28.0*	4000
ZYLS12X55VZX	R-332-CFX	2	M12x1.75	55	28.0	4000
UNC1/2-13X11/2	R-332-CFX	2	*UNC1/2-13*	*1-1/2*	*28.0*	4000
ZYLS12X65VZX	R-340-CFX	2-1/2	M12x1.75	65	21.0	3000
UNC1/2-13X13/4	R-340-CFX	2-1/2	*UNC1/2-13*	*1-3/4*	*21.0*	3000
ZYLS16X80VZX	R-348-CFX	3	M16x2	80	21.0	3000
UNC5/8-11X13/4	R-348-CFX	3	*UNC5/8-11*	*1-3/4*	21.0	3000

- metric bolts according to ISO 4762-10.9 (DIN 912-10.9)
- UNC bolts according to ANSI / ASME B18.3

ISO 6162-2 Retaining Ring Flange System

(for use with X5, X7 and X9 flanges)

Part Number	Flange Part Number	SAE Flange Size Inch	G Thread metric *Inch*	A mm *Inch*	max. dynamic working pressure MPa	psi
ZYLS10X45VZX	R-612-CFX	3/4	M10x1.5	45	42.0	6000
UNC3/8-16X11/2	R-612-CFX	3/4	*UNC3/8-16*	*1-1/2*	42.0	6000
ZYLS12X45VZX	R-616-CFX	1	M12x1.75	45	42.0	6000
UNC7/16-14X11/2	R-616-CFX	1	*UNC7/16-14*	*1-1/2*	42.0	6000
ZYLS14X50VZX	R-620-CFX	1-1/4	M14x2	50	42.0	6000
UNC1/2-13X13/4	R-620-CFX	1-1/4	*UNC1/2-13*	*1-3/4*	42.0	6000
ZYLS16X60VZX	R-624-CFX	1-1/2	M16x2	60	42.0	6000
UNC5/8-11X21/4	R-624-CFX	1-1/2	*UNC5/8-11*	*2-1/4*	42.0	6000
ZYLS20X70VZX	R-632-CFX	2	M20x2.5	70	42.0	6000
UNC3/4-10X23/4	R-632-CFX	2	*UNC3/4-10*	*2-3/4*	42.0	6000
ZYLS24X90VZX	R-640-CFX	2-1/2	M24x3	90	42.0	6000
-	R-640-CFX	2-1/2	-	-	42.0	6000
ZYLS30X100VZX	R-648-CFX	3	M30x3.5	100	42.0	6000
-	R-648-CFX	3	-	-	42.0	6000

- metric bolts according to ISO 4762-10.9 (DIN 912-10.9)
- UNC bolts according to ANSI / ASME B18.3

Assembly torque see page **Ab-24, Ab-25**

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