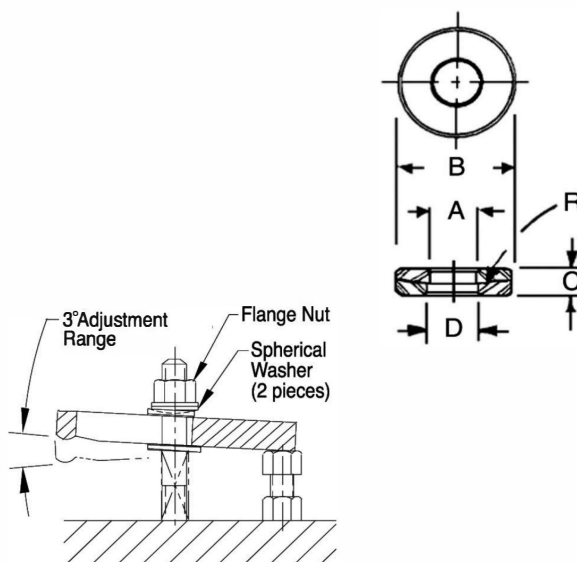


SPHERICAL WASHERS

STEEL: 1215, CASE HARDENED, BLACK OXIDE FINISH
STAINLESS STEEL: 300-SERIES, PASSIVATED



Two-piece washer that compensates whenever a stud and clamp strap are not perpendicular. The top washer has a convex spherical radius, while the bottom washer has a matching concave spherical radius.



STEEL

PART NO.	BOLT SIZE	A DIA	B DIA	C	D DIA	R
CL-1-SW	1/4 & M6	9/32	5/8	3/16	5/16	3/4
CL-11-SW	5/16 & M8	11/32	3/4	1/4	3/8	1
CL-2-SW	3/8 & M10	13/32	7/8	1/4	7/16	1-1/4
CL-3-SW	1/2 & M12	17/32	1-1/8	5/16	9/16	1-1/2
CL-4-SW	5/8 & M16	21/32	1-3/8		11/16	1-3/4
CL-5-SW	3/4 & M18	25/32	1-5/8	3/8	7/8	2-1/4
CLM-20-SW	M20	.83			7/8	
CL-6-SW	7/8 & M22	15/16	1-3/4	1/2	1	2-1/2
CL-7-SW	1 & M24	1-1/16	2		1-1/8	2-3/4
CL-8-SW	1-1/8	1-3/16	2-1/4		1-1/4	3
CL-9-SW	1-1/4 & M30	1-5/16	2-5/8		1-3/8	
CL-10-SW	1-1/2 & M36	1-9/16	2-7/8		1-5/8	

STAINLESS STEEL

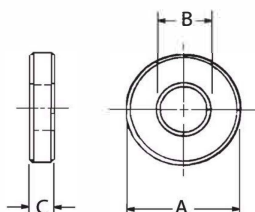
PART NO.	BOLT SIZE	A DIA	B DIA	C	D DIA	R
CL-144	#10 & M5	7/32	1/2	1/8	1/4	3/4
CL-145	1/4 & M6	9/32	5/8	3/16	5/16	
CL-146	5/16 & M8	11/32	13/16	7/32	3/8	1
CL-147	3/8 & M10	13/32	1	1/4	7/16	1-1/4
CL-148	1/2 & M12	17/32	1-1/8	5/16	9/16	1-1/2
CL-149	5/8 & M16	21/32	1-3/8		11/16	1-3/4
CL-150	3/4 & M18	25/32	1-5/8	3/8	7/8	2-1/4

FLAT WASHERS

STEEL: 1010, CASE HARDENED, BLACK OXIDE FINISH
STAINLESS STEEL: 300-SERIES



Thick, heavy-duty washer with both faces held flat and parallel. Available in steel or stainless steel.



INCH & METRIC

STEEL PART NO.	STAINLESS STEEL PART NO.	BOLT SIZE	A DIA	B DIA	C
—	CL-254	#10 or M5	7/16	7/32	5/64
—	CL-255	1/4 or M6	1/2	9/32	5/64
CL-7-FW	—	—	5/8	—	1/8
—	CL-256	5/16 or M8	5/8	11/32	3/32
CL-14-FW	—	—	3/4	—	1/8
—	CL-257	—	3/4	—	3/32
CL-1-FW	—	3/8 or M10	7/8	13/32	1/8
CL-8-FW	—	—	1	—	3/16
CL-2-FW	—	—	—	—	1/8
CL-9-FW	CL-258	1/2 or M12	1-1/8	17/32	3/16
CL-3-FW	—	5/8 or M16	1-3/8	21/32	1/8
CL-10-FW	CL-259	—	—	—	3/16
CL-4-FW	—	3/4 or M18	1-5/8	25/32	5/32
CL-11-FW	CL-260	—	—	—	1/4
CLM-10-FW	—	M20	1-5/8	.827	1/4
CL-13-FW	—	7/8 or M22	1-3/4	29/32	1/4
CL-12-FW	—	1	2	1-1/32	9/32

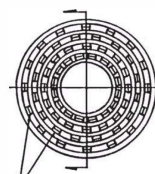
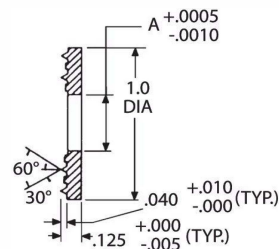
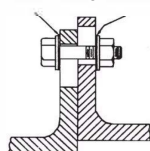
KNURLED-FACE WASHERS

4130 STEEL, HEAT TREATED 125,000-140,000 PSI PER MIL-H-6875, ZINC PLATED YELLOW CHROMATE



Flat washer with a serrated face to prevent two parts from sliding in relation to each other. Close tolerance on washer ID prevents the stud from slipping.

Serrated Washers
Teeth Facing Inward



64 TEETH, 16 EQUALLY SPACED
ON EACH DIAMETER WITH
ALTERNATE ROWS STAGGERED

INCH

PART NO.	BOLT DIA	A DIA
CL-3-KFW	#10	.1935
CL-4-KFW	1/4	.2500